

# **1999 STEEP-SLOPE ROOFING MATERIALS GUIDE**

The information source on steep-slope roof system products for the roof designer, specifier, installer, manufacture, and user.



10255 West Higgins Road, Suite 600  
Rosemont, IL 60018-5607  
847/299-9070  
FAX: 847/299-1183  
E-mail: [nrca@nrca.net](mailto:nrca@nrca.net); Internet: [www.nrca.net](http://www.nrca.net)

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# Steep-Slope Roofing Materials Guide

## Introduction

This 1999 *Steep-Slope Roofing Materials Guide* is a comprehensive report on steep-slope roof products currently on the market, as well as the warranties offered for asphalt shingles. It also provides pertinent information on the companies that manufacture and/or market these products.

The *Guide* is published by the National Roofing Contractors Association (NRCA) as a service to the roofing industry. Its objective is to provide information on listed products that will be helpful to users in determining which generic and specific products will serve their particular needs. It is of special value to those associated with the design, specification, application, and use of steep-slope roof systems.

The first edition of this publication was published in November 1992 and has been published annually since that time. From 1992 through 1998 the publication was titled *Residential Steep-Slope Roofing Materials Guide*. The words *residential steep-slope* distinguished it from a companion publication--the *Commercial Low-Slope Roofing Materials Guide*--which has been published since 1983. The *Commercial Low-Slope Roofing Materials Guide* provides product information on built-up, polymer modified bitumen, single-ply, sprayed polyurethane foam-based, and some metal panel roof systems.

When applied to the roofing market, the terms *commercial low-slope* and *residential steep-slope* are by no means definitive. Low-slope roofing materials are commonly used on non-residential buildings (e.g., commercial, industrial, and institutional buildings) and are sometimes used on residential buildings (e.g., single family homes, townhouses). Conversely, steep-slope roofing materials are commonly used on residential buildings and are sometimes used on non-residential buildings.

Beginning in 1999, the titles of the *Guides* have changed to the *Low-Slope Roofing Materials Guide* and the *Steep-Slope Roofing Materials Guide*. The reason for this division of product categories, as well as the titles, is for consistency with NRCA's other publications, including *The NRCA Roofing and Waterproofing Manual*.

*Steep-slope* roof materials are defined in *The NRCA Roofing and Waterproofing Manual* as those primarily intended for roofs with slopes greater than 3:12 (25%). Asphalt shingle, fiber-cement, clay and concrete tile, wood shake and shingle, slate and some metal panel roof systems fit this category.

*Low-slope* roofing materials are defined as those primarily intended for roofs with slopes of 3:12 (25%) or less. Built-up, polymer modified bitumen, single-ply, sprayed polyurethane foam-based, and some metal panel roof systems fit this category.

In publishing the *Steep-Slope Roofing Materials Guide*, NRCA maintains a policy of total objectivity in its reporting of data. Nothing is required from companies that manufacture and/or market listed products other than adherence to a prescribed reporting format. Any manufacturer/dealer of products included in the *Guide* can participate by submitting information on their company and products in accordance with procedures developed for this purpose. Companies involved only in the distribution of other companies' brand-name roofing products are not included in this publication. For further information, write: National Roofing Contractors Association, Attention: Roofing Materials Guide, 10255 W. Higgins Road, Suite 600, Rosemont, Illinois 60018-5607.

NRCA exercises due care in accurately reporting the data as supplied by participating manufacturers/dealers but does not audit test procedures used to arrive at the reported data, nor does NRCA assume responsibility for the accuracy or completeness of the data submitted. The presence or absence of a listing of a product, manufacturer, or dealer in the *Guide* does not imply NRCA approval or disapproval of the product or company, nor does NRCA recommend the use or avoidance of use of specific materials.

NRCA does not develop standards but instead works toward and supports the improvement of existing standards and the development of new ones by those organizations responsible for standards development. The fact that products listed in the *Guide* do or do not meet all of the values of the reference standards, documents, recommendations, or criteria does not necessarily imply that they will or will not produce acceptable roof systems.

## How the *Guide* is Organized

The *Guide* is divided by product category into nine major sections:

- Asphalt shingles
- Fiber-cement components
- Clay tile
- Concrete tile
- Metal components
- Wood shakes and shingles
- Slate
- Synthetic components
- Underlayment sheets

There is an overall index of manufacturers that lists company information and the product category(ies) in which the company's products appear, including the number of the page on which they are listed. There is an appendix divided by product category in which manufacturer-supplied information appears that expands on or is in addition to data listed in the category section itself. Appendix information can be found for products when an X appears in the space at the end of the listing entitled "See Appendix if Checked."

In reviewing the data in the *Guide*, users should keep in mind that the format is designed to facilitate the side-by-side comparison of products. For this reason, listing companies can only respond to existing items of requested information; they cannot add their own. Nor is footnoting permitted in *Guide* listings; listing companies instead may expand on or clarify an item of information by providing copy for the Appendix.

## Technical Information in the *Guide*

There are generally three categories of technical information for which data is provided in the *Steep-Slope Roofing Materials Guide*: (1) fire and wind ratings, according to Underwriters Laboratories (UL), Factory Mutual (FM), and/or ASTM standards or test methods; (2) ASTM performance-related standard specifications and/or standard test methods; and (3) product evaluation service approvals by code setting bodies and/or governmental jurisdictions; these include BOCA [Building Officials and Code Administrators International] Evaluation Services, Inc. (BOCA-ES), SBCCI [Southern Building Code Congress International] Public Safety Testing and Evaluation Services, Inc. (SBCCI PST & ESI), ICBO [International Conference of Building Officials] Evaluation Service, Inc. (ICBO-ES), and several municipal and regional jurisdictions.

In the majority of cases, the data provided is for **Underwriters Laboratories (UL) Standards**: The

specific ratings or standards that are generally regarded in the industry as appropriate to the particular product category to which they apply. In a few cases—for example in the synthetic roof component section—the listing manufacturer may provide test results according to whatever methods are deemed appropriate for the product being listed. This is because the category encompasses a variety of disparate products that are not generally measured according to the same criteria.

It should be pointed out that the development of standard specifications and test methods is a continuous process; many are under consideration by standard-setting bodies, such as ASTM, at any given point in time. The fact that a draft standard is being evaluated or exists in a proposed form does not make it useable in the *Guide*. Proposed standards or proposed revisions of existing standards are just that—proposed—and their use as a reference is often contrary to the policy of standard-setting bodies. For this reason, only standards that have undergone all formal approval procedures by the organizations identified with them are used in this publication.

## Fire and Wind Ratings

The standards and tests for fire and wind ratings referenced in the *Guide* are:

ANSI/UL Standard 790 *Tests for Fire Resistance of Roof Covering Materials*

ASTM Standard E 108 *Standard Test Methods for Fire Tests of Roof Coverings*

UL Standard 997 *Wind Resistance of Prepared Roof Covering Material*

UL Standard 580 *Tests for Wind-Uplift Resistance of Roof Assemblies*

ASTM Standard D 3161-95a *Standard Test Method for Wind-Resistance of Asphalt Shingles*

In addition, reference may be made to Factory Mutual (FM) approval for wind-uplift (see item 10 in the metal roof components section) or to FM approvals in general. These references are to the Factory Mutual System Approval Standard 4470 *Class I Roof Covers* and Approval Standard 4471 *Class I Panel Roofs*, discussed in more detail in the Factory Mutual Standards section that follows.

performance criteria for roof covering materials and

ratings of individual products are published in UL's *Roofing Materials and Systems Directory*. The ratings are derived from tests performed by UL on products provided for this purpose. The fire-resistance ratings are Class A, B, or C based on tests conducted under UL 790 and, additionally, approval or disapproval under the wind-resistance tests found in UL 997. Class-A products are defined as those "roof coverings...effective against severe fire exposures...[that] under such exposures are not readily flammable...; offer a fairly high degree of fire protection to the roof deck; do not slip from position; possess no flying brand hazard; and do not require frequent repairs to maintain...fire-resistance properties." Class-B roof coverings are "effective against moderate fire exposures," "offer a moderate degree of protection...," and "require occasional repairs...." Class-C products are effective against "light" fire exposure, provide only "some" degree of protection, and require "infrequent repairs...."

Individual products may have more than one rating, depending on the total roof system in which it is employed. For this reason, it is always advisable to refer to the UL Directory concerning the classification of any roof covering material.

The second UL wind-related standard referenced in the *Guide* is UL 580 *Tests for Wind-Uplift Resistance of Roof Assemblies*. The tests are described as being applicable to any type of roof assembly that is adaptable to the test equipment. The ratings that can result from the tests are Class 15, Class 30, Class 60, and Class 90. The classification depends on an evaluation of the comparative resistance to negative and positive pressures simulating the effects of varying wind velocities.

**Factory Mutual (FM) Standards:** FM standards recommend design criteria for consideration by the building owner's architect or engineer. To confirm that a product or building assembly will perform satisfactorily under actual fire, wind, or other conditions, Factory Mutual develops performance standards that test the product under simulated field conditions. FM standards for building products are written for a specific end-use in mind. They involve the owner and the installer, both of whom rely on a product's behavior under a variety of use conditions. The FM performance ratings are published in FM's *Approval Guide* and its three supplements, which are prepared at four-month intervals before the subsequent annual edition of the *Approval Guide* is printed.

Roof Cover Standard 4470 contains requirements that test products, as follows:

Fire spread below the roof deck A Class-I fire rating means that the building owner is not required

to install automatic sprinklers below the deck for its protection because the heat-release rate of the roof system is within allowable FM limits. The Class-I fire rating involves the most severe testing for any building assembly.

Fire spread across the roof cover The FM rating for fire spread across the cover and insulation can be IA, IB, or IC depending on the length of spread under ASTM E 108 fire testing. The insulation beneath the cover is a part of the rating, both as pertains to fire resistance and wind blow-off.

Windstorm rating (1-60, 1-75, 1-90, 1-105) The "1" in the windstorm rating refers to the Class I fire rating possessed by the roof assembly; the number 60, 75, 90, or 105 refers to the wind uplift classification as follows:

<u>Wind Uplift Classification</u>	<u>Max. Velocity Pressure in field of roof (PSF)</u>
1-60	# 30
1-75	30 # 37.5
1-90	37.5 # 45
1-105	45 # 52.5

Hail, leakage, weathering, and corrosion FM 4470 incorporates performance tests for each of the potential problems listed above, but the tests are made on the entire system, not individual components.

**ASTM Standards:** The primary fire-related ASTM standard appearing in the *Guide* is E 108 *Standard Test Methods for Fire Tests of Roof Coverings*. The tests are quite similar to UL 790 and, as seen above, form the basis for the fire-spread-across-roof-cover portion of FM 4470. The classes of fire exposure are also A, B, or C, the definitions for which are essentially the same as those found in UL 790.

In some instances the option is given to manufacturers in the *Guide* to reference ASTM E 108 rather than UL 790. This allows them to furnish results of tests that may have been performed on their products by an independent laboratory rather than by UL.

The ASTM wind-related standard referenced in the *Guide*, ASTM D 3161, tests the two types of shingles considered "wind-resistant": self-sealing, classified as Type I, and lock-type, or interlocking, classified as Type II. Any assembly "that restrains full shingle tabs from lifting, or locking ears from tearing loose or disengaging" passes the test.

## ASTM Standards

Other ASTM standards referenced in the *Guide* and the product categories to which they apply are:

Product Category	Standard
Asphalt Shingles	ASTM D 225 <i>Specification for Asphalt (Organic Felt) Surfaced with Mineral Granules</i>
	ASTM D 3018 <i>Specification for Class A Shingles Surfaced with Mineral Granules</i>
	ASTM D 3462 <i>Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules</i>
Clay Tile	ASTM C 1167 <i>Specification for Clay Tile Roofs</i>
Slate	ASTM C 406 <i>Specification for Roofing Slate</i>
Metal Components	ASTM E 283 <i>Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen</i>
	ASTM E 331 <i>Test Method for Water Penetration of Exterior Walls, Curtain Walls, and Doors by Uniform Static Air Pressure Difference</i>
Underlayment	ASTM D 224 <i>Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt)</i>
	ASTM D 226 <i>Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing</i>
	ASTM D 1970 <i>Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used As Steep Roofing Underlayment for Ice Dam Protection</i>
	ASTM D 2626 <i>Specification for Asphalt-Saturated and Coated Organic Felt Base Sheet Used in Roofing</i>
	ASTM D 4869 <i>Specification for Asphalt-Saturated Organic Felt Shingle Underlayment Used in Roofing</i>

With the exception of ASTM E 283 and ASTM E 331, manufacturers are not expected to provide the

actual test results, only whether the product passed the test(s) in the standard (i.e., *complied* with the standard), as well as any classification under which the product falls for testing purposes or as a result of the test(s). The possible responses are listed together with the standard in the appropriate section of the *Guide*.

It should be pointed out that the abbreviation *NA* is used throughout the *Guide* to indicate [not applicable]. The use of *NA* is limited to those cases in which a standard does not, by its nature, apply to the particular product; for example, it would be appropriate for a manufacturer of an organic asphalt shingle to enter *NA* next to ASTM D 3462, because this standard only applies to shingles made of glass fiber. It is inappropriate for a manufacturer to indicate *NA* for any other reason, e.g., the manufacturer doesn't believe that a test method is valid and therefore shouldn't apply to his product. In such cases, the editors of the *Guide* will delete the *NA*, and no response will appear. Although the reader cannot know whether the space was left blank by the manufacturer or was rendered blank editorially, the net effect is the same.

## Building Code Approvals

For many of the product categories in the *Guide* is a space for manufacturers to enter code approvals; entitled [Accepted by the Following Codes,] this is where the acronyms for code-setting organizations will be found and also where some government jurisdictions that use their own code approvals will be listed (e.g., Metro.-Dade County, City of Los Angeles). This information is provided as a quick reference for the *Guide* user only; it is necessary to refer to the publications of the organizations to understand the context in which these approvals are given. Each of the organizations has its own set of criteria, and each region of the country sets codes based on the recommendations of one or another of the code-setting bodies. The *Guide* user needs to determine which set

of criteria in general is relevant to his particular locality and then understand what the approval process for the particular code-setting organization implies.

Follow is a list of the publications produced by the code-setting organizations and where they may be obtained:

**BOCA** publishes *The BOCA National Building Code/Year*, 4051 W. Flossmor Road., Country Club Hills, Ill. 60477. A subsidiary of BOCA, BOCA Evaluation Services, Inc. (BOCA-ES), also reports on individual products, including test results; report numbers listed in the code approvals section of the *Guide* are references to the evaluation service report numbers issued by BOCA-ES. The reports are generally available from manufacturers upon request.

**ICBO** publishes *Uniform Building Code (UBC)*; 5360 So. Workman Mill Road., Whittier, Calif., 90601. A subsidiary of ICBO, ICBO Evaluation Service, Inc. (ICBO-ES) issues reports on individual products, including test results; report numbers listed in the code approvals section of the *Guide* are references to the evaluation service report numbers issued by ICBO-ES. The reports are generally available from manufacturers upon request.

**SBCCI** publishes *Standard Building Code [Edition]*; 900 Montclair Road., Birmingham, Ala. 35213. A subsidiary of SBCCI, SBCCI Public Safety Testing and Evaluation Service, Inc. (SBCCI PST & ESI) issues reports on individual products, including test results; report numbers listed in the code approvals section of the *Guide* are references to the evaluation service report numbers issued by SBCCI PST & EST. The reports are generally available from manufacturers upon request.

It should be noted that federal specification numbers are not provided for in the *Guide*; this information may be included in Appendix data on the product if the manufacturer provides it and wishes it published.



# Information on Steep-Slope Products

## Asphalt Shingles

### General Information

Asphalt roofing material is used both as underlayment (and interlayment) and as roof coverings. As underlayment, saturated felts provide secondary protection beneath the roof covering material but are not themselves exposed to the elements. Asphalt shingles, together with roll roofing materials, afford the primary protection in the roof systems in which they are used.

Asphalt shingles are composed of (1) a base material, either organic felt or glass fiber mat, that provides support for the waterproofing components and gives the shingle strength; (2) asphalt; and (3) surfacing material, generally in the form of mineral granules, that provides protection from impact and ultraviolet degradation and improves fire resistance.

The most common form of asphalt shingles are *strip shingles*. They are rectangular, the most prevalent size being 12 inches wide by 36 inches long (metric shingles are 13 1/4 inches by 39 3/8 inches). They most frequently have three tabs [i.e., *3-tab strip shingles*] that are exposed along the length of the shingle for visual effect. Strip shingles are also produced without cutouts [i.e., *No-Cutout Strip Shingles*] and with tabs that are randomly distributed, called "random tab" shingles.

Shingles may be produced in single thickness or with more than one thickness. The latter are generally known as *laminated strip shingles*, and they have a three-dimensional appearance.

The term *self-sealing* refers to the effect of the addition of a strip of factory-applied adhesive to the shingle, which is activated by the sun's heat after installation and "seals" each shingle to the one below it. This provides greater wind resistance to the system.

Another way to achieve wind resistance is through use of the interlocking, or "lockdown," shingles. They rely on locking mechanisms instead of sealant for fastening to the roof.

The granule surfacing provides the wide color range in which shingles are available today.

### Notes on the Asphalt Shingles Section

The following information is offered to assist in the interpretation of the data elements in the asphalt shingles section.

**Item 3 *Product Description*** Data concerning the number of colors in item 3D may be split with a slash (/), which indicates color availability by region. More details may be provided by manufacturers in the Appendix on regional color availability for their products.

**Item 5 *Availability Restricted Regionally*** Because of design or appearance considerations, some shingles are produced for specific regions of the country only. In such cases, availability of the shingle may be limited to regional distributors or service locations.

**Item 6 *Dimensions and Coverages*** Item 6B provides for information for a second size of a particular shingle, such as a metric variant. The absence of an entry in 6B implies that the only size available is the one listed in 6A.

**Item 7 *Hip and Ridge Shingles Available*** Manufacturers indicate here whether accessory shingles are available for a product nationally, regionally, or not at all. An answer of *NO* does not necessarily imply that the accessory products are needed but not available; it may simply be that special shingles are not needed (and therefore not available).

**Item 8 *Slope/Underlayment Recommendations*** However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 12 *Distribution*** The only permitted responses to items 12A and 12B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

## Part 1 General Information

## Part 2 Technical Data

**Item 4 *Complies with:*** The permitted responses for ASTM standards are provided parenthetically. The appearance of *NA* is appropriate for those products that are excluded by the nature of a standard: for item 4B, fiberglass shingles, and for item 4D, organic shingles. In addition, item 4C only applies to Class-A shingles, so for those with other ratings, *NA* is an appropriate response.

## Part 3 Warranties

The warranty section of the *Steep-Slope Roofing Materials Guide* provides information on warranties offered by materials manufacturers applicable to their asphalt shingle products listed in the *Guide*. The information is derived from two sources: an examination of the warranty or guarantee document itself and the manufacturer's responses to a questionnaire sent by NRCA.

All manufacturers listing asphalt shingles in the *Guide* are invited to submit their warranties for examination and listing. Those without warranty listings have elected not to participate.

For each warranty, there are 20 categories, or items, of information listed. The information provided in the following categories was obtained by an examination of the document itself:

No.	Item of Information
1	Identity of issuing entity
2	Title, original publication date, and identifying symbol (if any)
3	Products covered
4	Scope of coverage
5	Length of coverage
6	Nature of remedy
7	Monetary limitations
8	Specific exclusions from coverage
9	Wind coverage/exclusion
10	Notification requirements
11	Determination of warranty applicability and coverage
13	Specific conditions that make warranty ineffective or void
14	Inclusion of consequential damages
15	Assignability
18	Additional or exclusive remedy
19	Special features/conditions
20	Executed by owner

In addition, information in the following categories was provided by the manufacturer in response to a questionnaire accompanying the warranty document:

No.	Item of Information
2	Title, original publication date, and identifying symbol (if any)
3	Products covered (if products are not specified in the language of the warranty document.)
4	Scope of coverage
5	Length of coverage
6	Nature of remedy
9	Wind coverage/exclusion
12	Issuing entity manufactures and/or sells shingles
16	Cost to obtain
17	Warranty backed by insurance coverage

In response to this information, NRCA endeavors to prepare an accurate, comprehensive, and objective listing for each warranty submitted by a manufacturer. Generally, a separate listing is generated for each document; sometimes, however, a manufacturer uses the same warranty document to cover different products, and, in addition, the lengths of coverage, the cost to obtain it, the minimum charge, or the monetary limitations vary. In such cases, there may be more than one listing for a particular warranty reflecting these differences.

A blank space appears for a category of information if the relevant data is not provided by a manufacturer. Brackets ([ ]) are used in listings to indicate information that a manufacturer feels is pertinent but that may not be contained in the document or at least was not apparent to NRCA in its review. In effect, the use of bracketed statements provides a means for manufacturers to disagree with the analysis made of the document by NRCA; in some instances, these statements may even contradict NRCA's conclusions concerning the import of language in a warranty.

It should be noted that the name of the manufacturer as it appears in Item 1 Identity of Issuing Entity may not necessarily be identical to or even the same as the one listed in the Index or in the asphalt shingle sections. This is because the name appearing in the warranty section is the name of the entity *appearing in the warranty document itself*. For example, if a manufacturer changes its corporate name but does not change a warranty document that bore its original name, the original will appear in the warranty section. Or if one company purchases the assets of another, upon request NRCA simply moves

the products of the acquired company under the name of the company that acquired it. In the warranty section, on the other hand, this may not be possible: until warranty documents bearing the new corporate name are provided NRCA, the name of the entity must remain as it appears in the documents. An explanation of such situations is sometimes provided in a footnote in the warranty section in order to clarify an apparent discrepancy in corporate names.

By necessity, the warranty listings in the *Guide* present rather succinctly a great deal of information contained in the manufacturers' warranties, as well as the policies surrounding them. For this reason, the reader should obtain and examine the warranty document itself, discuss additional questions with a representative of the party issuing the warranty, and obtain professional advice from counsel when desired. A warranty has significant legal consequences: therefore, all parties should understand the document at the outset of a construction project to preclude subsequent misunderstandings.

The warranty section of the *Steep-Slope Roofing Materials Guide* is prepared by the firm of Hendrick, Phillips, Schemm & Salzman, Atlanta, Ga., in coordination with NRCA staff.

## Understanding the Warranty Listing

Following are descriptions of the kind of data that is contained in the 20 categories of information included in each warranty listing.

**1. Identity of issuing entity** This is the name of the legal entity that issues and is obligated to honor the warranty document. In most instances, this entity is the manufacturer of the product covered by the warranty (but see the explanation of Item 12 for more information in this regard).

**2. Title, original publication date, and identifying symbol (if any)** The title listed is the title printed on the warranty document. The original publication date is the date that the manufacturer first promulgated the warranty form; the document may subsequently be reprinted in the exact same form. Some manufacturer's warranties contain an identifying symbol, or code, that is frequently a combination of numbers and letters, usually in the bottom right-hand or left-hand corner of the document. This identifying symbol indicates the precise document that was reviewed by NRCA. (For the reader to be certain that the warranty document he has in his possession is the same one listed in the *Guide*, the title of the document and the

identifying symbol, if any, should match exactly.)

**3. Products covered** This is an enumeration of the manufacturer's asphalt shingle products that are covered by the warranty. If properly updated by the manufacturer, the reader should be able to identify these products in the asphalt shingle section.

**4. Scope of coverage** Information supplied in this category usually corresponds to the language used in the warranty document. Item 4a addresses whether the warranty provides coverage for defects in manufacture, as opposed to defects in application, which is covered in Item 4b. Virtually all asphalt shingle warranties provide coverage for leaks; others may provide coverage for other defects and conditions. This will be noted in Item 4c. Few asphalt shingle warranties provide coverage for defects in other roofing work besides the shingles; if coverage is extended to flashings, metal work, or related application, this will be noted in 4d.

**5. Length of coverage** This is the number of years for which the manufacturer will issue the warranty. The length of coverage will generally be stipulated for specific asphalt shingle products. Most coverage is prorated—that is, the coverage declines from the original cost of the shingles based on a formula related to the number of months elapsed in the warranty. Details on the proration schedule are provided in Items 5a, 5b, and 5c.

**6. Nature of remedy** This heading states what action the manufacturer will take in the event that there is a problem with the shingles covered under the warranty. The language used in this category generally parallels that appearing in the warranty document. For most asphalt shingle warranties, the remedy provided is payment to the purchaser of cost of repair or replacement of the shingles, often on a prorated basis.

**7. Monetary limitations** The information provided for this category indicates whether the warranty contains a monetary limitation of the manufacturer's obligation under its warranty. The phrase *none stated* indicates that there is no monetary limitation stated in the document, meaning that the manufacturer is obligated to spend whatever sum is necessary in order to honor its warranty.

**8. Specific exclusions from coverage** Most roofing warranties state that leaks resulting from certain enumerated causes (e.g., natural disasters, tornadoes, abuse or misuse) will not be covered. A numeric code is used in this category to reference specific exclusions from coverage, a key for which is provided below. The list of specific exclusions is a compilation of those appearing in warranty documents submitted to NRCA; the language appearing in the index is not necessarily the exact language appearing in a specific warranty document, but it reflects the same exclusion.

The absence of a specific exclusion from coverage does not necessarily mean that a warranty will be applicable to a condition or occurrence not specifically excluded. The applicability of the warranty will generally be determined from the information contained under the category Scope of Coverage.

### **Index of Specifically Enumerated Exclusions from Coverage**

1. Natural disasters and acts of God (lightning, hurricanes, tornadoes, earthquakes)
2. Hail
3. Acts of negligence, abuse or misuse, accidents, vandalism
4. Damage by structural failure; settlement; movement; distortion; warpage; or buckling or cracking of roof deck, walls, or foundation
5. Failure of material and/or metal work not supplied by the manufacturer issuing the warranty
6. Changes, repairs, or alterations to roof or installation of equipment, fixtures, or utilities on or through roof after application
7. Defects in, failure or improper application of, roof insulation, roof deck, or any other underlying surface of material used as a base over which the shingles are applied
8. Inadequate attic ventilation
9. Traffic or storage of materials on roof
10. Improper storage of shingles
11. Damage resulting from lack of positive, proper, or adequate drainage
12. Negligence or failure of owner to use reasonable care in maintenance of roof or failure to follow manufacturer's maintenance specifications
13. Variations in color caused by natural positioning of the granular surfacing material
14. Discoloration caused by algae, fungi, lichen, cyanobacteria, or environmental sooting

15. Repairs performed or materials furnished by others unless specifically authorized and approved by manufacturer; unauthorized repairs
16. Fire
17. Any cost incurred for repair or replacement not authorized by manufacturer
18. Contaminants that have not been approved first or accepted by manufacturer; exposure to or contact with damaging or deteriorating substances or agents
19. Defects or failure caused by misapplication of materials or by application not in strict adherence with manufacturer's specifications, application instructions, and approved practices
20. Application of shingles directly to insulation or an insulating deck without manufacturer's prior approval
21. Application of cleaning solutions, paint, or coatings
22. Infiltration or condensation of moisture in or through underlying area; vapor condensation beneath the roof
23. Damages caused by falling objects
24. Damage to the shingles due to any cause other than manufacturing defects; acts of parties other than manufacturer
25. Appearance problems related to multiple-layer installation, application over old shingles.
26. Force majeure; conditions or use or circumstances beyond manufacturer's control

**9. Wind coverage/exclusion** The purpose of this category is to convey the manufacturer's policy in regard to whether blow-off of the shingles or damage to them is limited to specific wind speeds and/or other conditions. Some manufacturers' warranties list gales, strong gales, wind storms, and/or hurricanes and tornadoes as examples of natural disasters or acts of God that are specifically excluded from warranty coverage. In order to provide more specific, affirmative information regarding the manufacturer's policy concerning wind coverage, NRCA asks manufacturers to identify the wind speed that is covered by each of their warranties or to state that the warranty does not cover damage to the roof caused by wind regardless of speed—meaning that any damage resulting from wind, even at extremely low speeds, is excluded from warranty coverage.

NRCA references the Beaufort Scale in its questions to manufacturers concerning wind speed. The Beaufort Scale rates winds on a scale of 1 to 12 and

utilizes widely accepted definitions, as shown in the following table.

If NRCA believes that the manufacturer's response is potentially inconsistent with the wind exclusions stated in the warranty or creates an ambiguity, the manufacturer's response is included in brackets. If the warranty document does not address the subject of wind, the information is based exclusively upon the

manufacturer's response to the NRCA wind questions. If the manufacturer does not respond to the wind questions but the warranty addresses the subject of wind, the information is based exclusively on an examination of the warranty document. If the category remains blank, the warranty does not address the wind issue and the manufacturer did not respond to the wind questions.

Beaufort Scale			
Beaufort Number	International Description	Wind Speed (mph)	Specification
0	calm	less than 1	calm; smoke rises vertically
1	Light air	1–3	direction of wind shown by smoke but not by wind vanes
2	light breeze	4–7	Wind felt on face; leaves rustle; ordinary vane moved by wind
3	gentle breeze	8–12	Leaves and small twigs in constant motion; wind extends light flag
4	Moderate breeze	13–18	raises dust and loose paper; small branches are moved
5	fresh breeze	19–24	small trees in leaf begin to sway; crested wavelets form on inlet islands
6	Strong breeze	25–31	large branches in motion; whistling heard in telegraph wires; umbrellas used with difficulty
7	moderate (or near) gale	32–38	whole trees in motion; inconvenience in walking
8	Gale (or fresh gale)	39–46	breaks twigs off trees; generally impedes progress
9	strong gale	47–54	slight structural damage occurs
10	storm (or whole gale)	55–63	trees uprooted; considerable damage occurs
11	violent storm	64–72	accompanied by widespread damage
12	hurricane	73*–136	devastation occurs
* The U.S. uses 74 statute mph as the speed criterion for hurricanes.			

**10. Notification requirements** In this category is information concerning the action that an owner or other claimant is to take in order to make a warranty claim; of particular importance is the prescribed time period in which a leak or defect is to be reported to the manufacturer. If the warranty contains specific notification requirements, they are set forth here. Most warranties require that claimants provide the manufacturer with written notice of a warranty claim within 30 days of the discovery of a leak or purported defect. Some warranties require notice within 10 days and/or that written notice be sent by registered or certified mail.

**11. Determination of warranty applicability** Some warranties state explicitly that the manufacturer has

the right to determine whether a leak is covered or excluded from warranty coverage. The entry *manufacturer's determination* indicates that the manufacturer reserves to itself the right to determine whether a leak is covered or excluded from warranty coverage. Under these circumstances, the manufacturer's determination may be binding, even if it is erroneous and regardless of whether other parties disagree, provided that the manufacturer's determination was made in good faith.

If the entry in this category states *neutral (no provision)*, the manufacturer's warranty does not contain an explicit provision giving it the right to determine whether the warranty is or is not applicable to a problem. In the event of a dispute concerning the warranty's applicability, a neutral party would

ultimately decide whether the warranty is applicable in this case.

**12. Issuing entity manufactures and/or sells products** In this category is indicated whether the entity issuing the warranty is both the manufacturer and seller of the shingles covered under the warranty or whether the party issuing the warranty is only the seller.

**13. Specific conditions to make warranty ineffective or void** In addition to excluding warranty coverage for leaks resulting from specifically enumerated exclusions, manufacturers' warranties may provide that the entire warranty is ineffective or void under certain conditions. Unlike the category Specific Exclusions from Coverage, Category 13 refers to those conditions stated in the warranty document that will make the warranty null and void or ineffective in its entirety, as opposed to simply not being responsive to a particular leak. For example, a warranty may indicate that repairs, alterations, or additions without the prior approval of the manufacturer make the warranty null and void; this differs from the statement that a leak resulting from a repair or alteration not previously approved by the manufacturer is excluded, or not covered, under the warranty.

An alphabetic code is used in this category to reference specific conditions to make warranty ineffective or void, a key for which is provided below. The list of specific conditions is a compilation of conditions that appear in roof warranties submitted to NRCA; the language appearing in the various conditions is not necessarily the exact language appearing in a specific warranty document.

#### **Index of Specific Conditions that Make Warranty Ineffective or Void**

- A. Shingles are not applied in accordance with manufacturer's application instructions or specifications
- B. Deck over which the shingles have been applied does not meet building code minimum requirements
- C. Roof structure is not properly vented; roof structure does not have through ventilation meeting building code minimum requirements; ventilation does not meet FHA minimum property standards
- D. Absence of underlayment in new construction or tear-off to deck
- E. Repairs or expenditures incurred prior to

manufacturer's acknowledgment and acceptance of claim

- F. Shingles that are purchased or installed outside the United States or Canada
- G. Warranty registration form is not executed and submitted to manufacturer upon application of shingles.
- H. Shingles are not installed by a roofing contractor certified by the manufacturer.
- I. Lack of proper notification

**14. Inclusion of consequential damages** The word *no* in this category indicates that the warranty does not cover consequential damages that may result from a roof leak, such as damage to the interior of the building. The majority of roof warranties expressly exclude consequential damages.

**15. Assignability** Like other legal documents, warranties can generally be [assigned] or [transferred] by one party to another, unless there is a specific prohibition against such assignment. Some roofing warranties contain such prohibitions, and some state specifically that no assignment or transfer will be allowed without the prior written permission of the manufacturer. The phrase *No restrictions stated* indicates that the warranty contains no provision barring, limiting, or conditioning the owner's right to assign the warranty to a subsequent owner or party.

**16. Cost to obtain** This is the amount, if any, that the manufacturer charges to obtain the warranty. The word *None* entered in this category means that there is no separate charge, apart from the cost of purchasing the materials, for the warranty. When there is a separate charge, it will generally be stated on a per-square (100 square feet) basis.

**17. Backed by insurance coverage** In this category it will be indicated whether an insurance company is listed on the face of the warranty document and whether the manufacturer has insurance applicable to its warranty obligations. The entry of *No* indicates that no insurance company is named on the face of the warranty document, meaning that the owner or other claimant would not be entitled to assert a claim against an insurance company in the event that the manufacturer were unable to satisfy its warranty commitments.

NRCA also asks manufacturers if they carry insurance covering their warranty obligations and, if so, the type and amount of coverage. The manufacturer's response is included as part of the information provided in this category.

**18. Exclusive or additional remedy** Under general legal principles, unless the warranty document specifically excludes other warranties and remedies that may be available to the owner and the owner agrees to be bound by the warranty terms, the rights and remedies set forth in the warranty document are in addition to those warranties, rights, and remedies that may be available to the owner or other claimant under state statutory or common law. In addition to providing an owner with specific rights, warranty documents are frequently used as a liability limiting device so that the liability of the party issuing the warranty is limited to what is prescribed in the warranty document. If the warranty states that it is an exclusive warranty and is issued in lieu of all other warranties, the claimant may not be entitled to seek recovery from the manufacturer based on the breach of any other warranties, express or implied.

The manufacturer's warranty may exclude or seek to exclude the implied and express warranties established by the Uniform Commercial Code (UCC). The UCC, as adopted in most states, provides that a warranty is implied in a contract for the sale of goods that the goods shall be merchantable if the seller is a merchant of goods of that kind. To be merchantable goods must be fit at least for the ordinary purposes for which such goods are used, must conform to the promises or affirmations made on the container or label, and must pass without objection in the trade under the contract description. An implied warranty of fitness for particular purpose is created under the UCC when the seller at the time of contracting has reason to know any particular purpose for which the goods are required and that the buyer is relying on the seller's skill or judgment to select or furnish suitable goods.

In addition to those implied warranties, the UCC provides that express warranties are created when the seller (1) makes an affirmation of fact or promise to the buyer that relates to the goods and becomes a part of the basis of the bargain; (2) gives a description of the goods that is made part of the basis of the bargain; (3) provides a sample or model of the goods that is made a part of the basis of the bargain.

UCC implied warranties may be excluded in accordance with the requirements set forth in the Uniform Commercial Code.

In addition to seeking to make the warranty an exclusive warranty, a manufacturer's warranty may seek to limit the other remedies that the law would otherwise make available to a claimant. A warranty that states that it is the owner's exclusive remedy might limit the claimant's rights to the terms of the

warranty and preclude a claim based on another legal theory of liability. Some warranty documents state that remedy provided in the warranty is the owner's "sole and exclusive remedy" and is the manufacturer's sole liability and obligation in the event of a roof problem regardless of whether the owner might otherwise be entitled to pursue a legal claim for breach of contract, negligence, or another legal theory of recovery.

The purpose of the category Exclusive or Additional Remedy is to give the reader an indication as to give the reader an indication as to how the manufacturer's warranty may impact other warranties and remedies that may be available to an owner. The phrase *excludes UCC warranties* in this category means that it appears that the warranty document complies with the UCC requirement to exclude warranties established under the Uniform Commercial Code.

**19. Special features/conditions** In this category are relatively unique or unusual features, conditions, or limitations. This category is generally based on the warranty document itself, but sometimes may be based on information supplied by the manufacturer.

**20. Executed by owner** In this category is indicated whether the manufacturer's warranty form states on its face that it is to be signed by the owner. Requiring the roofing warranty to be executed by the owner makes it more likely he will be bound to the terms and conditions set forth in the document in the event that a question subsequently arises as to whether the owner agreed to the terms and conditions in the warranty.

## **Fiber-Cement Components**

### **General Information**

The category of fiber-cement components encompasses those products made of cement and reinforcing fibers, either organic and/or inorganic, that are designed as substitutes for wood shingles/shakes, slate, and tile in steep-slope applications. As such, they are made to look like, or to simulate, one of these products, and, in many instances, are installed in a similar manner.

### **Notes on the Fiber-Cement Components Section**

**Item 3 Style** This item allows for selection of the

product that the fiber-cement component is intended to simulate; in some instances a product can look different depending on how it is viewed on the roof—for example, it might appear to be a shingle or a shake. Only one response for style was permitted for each product, however.

If more specific information is deemed appropriate, e.g., the type of tile that a product simulates, this information can be entered.

**Item 8 Hip/Ridge Pieces Available** Manufacturers indicate here whether accessory pieces are available for their product. An answer of *NO* does not necessarily imply that the accessory products are needed but not available; it may simply be that special pieces are not needed (and therefore not available).

**Item 9 Slope/Interlayment/Underlayment Recommendations** The term *interlayment* is generally associated with wood shake products and refers to the installation process involving laying an 18-in.-wide strip of felt over a portion of the shake, with the subsequent course being laid on top of the felt. An underlayment felt may be applied first, in addition to the interlayment.

However “normal” application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment and/or interlayment. If application is allowed at less than the “normal” slope, the absolute minimum slope is provided followed by the underlayment and/or interlayment recommended for that “special” application. The absence of data for a “special” application generally implies that none is permitted.

**Item 13 Distribution** The only permitted responses to items 13A and 13B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

**Item 15 Accepted by the Following Codes** See the section in this introduction on building code approvals.

The only permitted responses to this item are the listing of a code-setting agency or a governmental jurisdiction. (Other approvals may be listed in the Appendix by manufacturers choosing to do so.) Numbers in parenthesis refer to reports on a product

issued as part of or in addition to the approval process.

## **Clay Tile**

### **General Information**

Clay tile is produced by baking molded clay into tile. The density of the clay is determined by the length of time and temperature at which it is heated. Tiles may be glazed and may also have surface texture treatment. As a result, there are a wide variety of tile profiles, styles, finishes, and colors available. In addition, each tile type may have separate field, ridge, hip, gable, and terminal tiles of various shapes. Installation methods depend upon the nature of the tile being installed, e.g., whether it is two-piece, one-piece, interlocking, flat, and so forth.

The terms used to refer to tile types are not necessarily consistent among manufacturers. Sometimes, a proprietary name is used instead of a generic term that might be more descriptive of the tile product. The terms used for item 3 of this section are intended to be generic and descriptive at the same time.

### **Notes on the Clay Tile Section**

**Item 4 Tile Description** The space for texture allows the recording of information concerning the surface treatment(s) in which a tile product is available. Such textures are often described in terms of what the tile product simulates, e.g., wood shake. The description of finishes and related data are split between the categories of natural and glazed. This data includes the number of colors available for each finish, whether the colors are marketed nationally or only regionally, and whether customized colors and/or shapes are available. In some instances, a number will not be entered for colors available; instead, the word *CUSTOM* appears. This indicates that a product is available in custom colors only, by special order.

**Item 6 Dimensions and Coverage** For tapered tile, the dimensions will include three figures, the final one being the size to which the tile ultimately tapers; this will be preceded by *TAPERS TO* for clarity.

**Item 7 Slope/Underlayment Recommendations** However “normal” application is defined by a manufacturer, the minimum slope is provided followed by



the recommended underlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 8 Decks and Fastening Recommendations** In this section, the manufacturer records the type of fastening system recommended for each deck type. An *NA* indicates that installation on a particular deck is not recommended. If 8G *OTHER* is not filled in, no deck is recommended other than those so indicated by the manufacturer in the preceding list.

**Item 11 Distribution** The only permitted responses to items 11A and 11B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

**Item 13 Accepted by the Following Codes** See the section in this introduction on building code approvals.

The only permitted responses to this item are the listing of a code-setting agency or a governmental jurisdiction. (Other approvals may be listed in the Appendix by individual manufacturers.) Numbers in parenthesis refer to reports on a product issued as part of or in addition to the approval process.

## **Concrete Tile**

### **General Information**

Concrete tiles are made of portland cement, sand, and water in varying proportions. The material is mixed and extruded on molds under high pressure. The exposed surface of the tile is finished with cementitious material colored with synthetic oxide additives. The tiles are then cured to reach the required strength. They generally have lugs on the underside for anchoring to batten strips. There are additionally waterlocks, or interlocking ribs on the longitudinal edge, that are for impeding movement and preventing water infiltration.

Like clay tile, there are a wide variety of profiles, styles, finishes, and colors available. Color may be added to the surface of the tile or dispersed throughout, termed "color-through" in item 4. Special

texture may be added in surface treatment. In addition, each tile type may have separate field, ridge, hip, gable, and terminal tiles that are of various shapes.

Concrete tile types can be associated with the roof component that the tile is simulating—whether it be clay tile or shingles, shakes, and slate.

### **Notes on the Concrete Tile Section**

**Item 7 Slope/Underlayment Recommendations** However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 8 Recommended Decks and Fastening Requirements** The first option is whether solid sheathing and/or spaced sheathing is recommended and then the deck material type over which application is permitted. Item 8C1 gives information as to whether batten strips are required at a given slope or range of slopes; the entry of *NA* in either 8C1a or 8C1b is appropriate if either solid decking or spaced sheathing is not recommended in 8A. Then 8C2a and 8C2b provide for information concerning fastening requirements with and without battens, for field tiles only.

**Item 11 Distribution** The only permitted responses to items 11A and 11B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

**Item 12 Accepted by the Following Codes** See the section in this introduction on building code approvals.

The only permitted responses to this item are the listing of a code-setting agency or a governmental jurisdiction. (Other approvals may be listed in the Appendix by individual manufacturers.) Numbers in parenthesis refer to reports on a product issued as part of or in addition to the approval process.

## **Metal Components**

### **General Information**

Metal roof systems are traditionally divided into two categories, architectural and structural. The architectural system is likened to the traditional steep shingled roof, in that it is considered a water shedder. Structural systems can be compared to and compete with traditional low-slope roofs because they are designed to better resist moisture on low-slope applications. Architectural panels are usually seamed by a double-interlock method, which performs well on a slope of at least 3 in 12 inches. They require solid decking, and a felt underlayment is usually recommended. Structural metal systems are designed to resist the passage of water under hydrostatic pressure. They have the structural capability of spanning joists without being supported by a solid deck and do not require an underlayment.

This section is divided into two separate parts: panels (item 3.2A) and individual components (item 3.2B). Individual components are those metal roofing products designed, in the main, to resemble a traditional steep-slope residential product; these are listed in the styles under item 3.1. There are, however, metal roof panels that are designed to resemble steep-slope residential products that cannot be considered "individual components" because of their size and configuration. And finally there are the standing seam panels that are intended primarily for architectural purposes but that can, in some cases, be used for structural systems. All of these metal roofing products have been incorporated into this section, but not necessarily as neatly as might be desired. The problem remains that, as discussed earlier in the general introduction, that which is residential may not be steep-slope, and that which is low-slope may not be commercial. For example, some metal panels not appearing here have a wide residential use but are structural, rather than architectural, by design. Ultimately, however, it was necessary to adopt some useable criterion according to which metal roof products were judged appropriate for inclusion in the *Steep-Slope Guide*; that criterion is that they have residential use **and** be architectural by design. A number of metal panels with residential applications but with other than an essential architectural design can be found in the NRCA *Low-Slope Roofing Materials Guide*.

There are many categories of metal panels. The term *standing seam* is often used as a generic description for a class of metal roof seams, including some that are described below. More properly, the term refers to one of two kinds of *profiles*, or seam types: (1) the vertical leg/flat pan and (2) the trape-

zoidal seam. The name *standing seam* derives from the fact that the seams are joined together **above** the panel flats. The trapezoidal standing seam is more commonly associated with structural panels. Other panel types are batten, flat, bermuda, and shingled.

The original *batten seam* consisted of vertical leg panels placed between wood batten strips and covered with a cap. Today, many batten seam panels are constructed entirely of metal. Because they are designed to shed water, they are used primarily in architectural applications. The *flat seam* is created with individual panels applied in shingled application. One panel edge is folded back on top of itself; the other panel is folded under, and the two panels are hooked together. Again, because flat panels are considered water shedders, they are more commonly found in architectural installations. The *bermuda panel* profile features a continuous panel run perpendicular to the roof slope. It has a shingled appearance and is a water shedder. *Shingled panels* are die-formed panels designed to give the appearance of tile, slate, or wood shingles.

## Notes on the Metal Components Section

**Item 3 Configuration** The category of configuration encompasses style (3.1); component type and size (3.2); and materials, thicknesses, and finishes (3.3). The style can refer to the simulation of one of the traditional steep-slope products, and the response may include a more specific type, if appropriate; or it can be *OTHER*, with an entry made for the kind. (- Standing seam panels are the most common kind of *OTHER* specified.) If a product is a panel, the width(s) in which the panel is available are entered for 3.2A, times the length of the panel; if the product is an individual component, the dimensions appear in 3.2B.

**Item 4 Systems Recommendations** This section is appropriate for both panels and individual components. The absence of a check mark by a deck type implies that application over the deck is not recommended by the manufacturer.

**Item 5 Panel Configuration** This item is only for panels that are recorded as such in item 3.2A; no data for individual components was permitted in this section.

**Item 6 Individual Component Configuration** This item is only for individual components that are recorded as such in item 3.2B; no data for panels was

permitted in this section. **Items 8, 9 ASTM E 331 and E 283** Actual test results are to be recorded; the only other response permitted was *NONE*.

**Item 10 UL Fire Rating for Any Specification** The response for this item should be Class A, B, or C. No other response, except *NONE*, was permitted. It should be noted that the rating is for a specification (combination of roof system components); contact the manufacturer concerning the exact specification to which the rating applies.

**Item 11 FM/UL Wind Uplift Rating for Any Specification** The response for this item should be a wind rating in the form of UL-90, FM I-90, and the like. It should be noted that the rating is for a specification (combination of roof system components); contact the manufacturer concerning the exact specification to which the rating applies.

## **Wood Shakes and Shingles**

### **General Information**

This section covers three different kinds of wood roofing products: (1) red cedar shakes and shingles, (2) pine shakes, and (3) wood fiber panels.

Red cedar shakes and shingles are manufactured from western red cedar and from cypress and redwood trees. Wood shingles are sawn on both sides and have an even taper and uniform thickness. (The industry terms *Perfection* and *Royal*, when applied to shingles, mean nothing more than 18-inch and 24-inch, respectively. ) Shakes are split from logs and reshaped by manufacturers for commercial use. They are thicker at the butt end than shingles; generally one or both surfaces are split in order to obtain a textured effect. The split and resawn shake has a split face and sawn back. The taper-sawn shake has a natural taper and is sawn on both sides. Cedar shakes and shingles are available pressure treated with fire retardants and chemical preservatives, for increased fire protection and to prevent premature rot and decay in some climates. Cedar shakes and shingles are installed over both spaced and solid sheathing and mechanically fastened. Shakes are installed using felt interlays that act as baffles against wind-driven material and increase insulating values.

Pine shakes are made from southern yellow pine and are taper-sawn. They are also available pressure-treated with preservatives to protect against

decay and insects. They may be installed over spaced or solid sheathing and are mechanically fastened. Interlayment felts are required.

The category of wood fiber covers those products made of wood fibers, bonded together under heat and pressure to form a shingle or shake. Because of the size of the components, they are classified as panels rather than individual shakes or shingles. They are mechanically fastened over spaced or solid sheathing.

### **Notes on the Wood Shakes and Shingles Section**

**Item 4 Product Style and Size** The five styles/sizes of cedar shakes and shingles are not the only ones produced, but simply the most commonly manufactured.

**Item 5 Availability Restricted Regionally** Because of design considerations, some wood shakes and shingles may be produced for specific regions of the country only. In such cases, availability may be limited to regional distributors or service locations.

**Item 8 Slope/Interlayment/Underlayment Recommendations** The term *interlayment* refers to the installation process involving laying an 18-in.-wide strip of felt over a portion of the shake, with the subsequent course being laid on top of the felt.

However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment and/or interlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment and/or interlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 9 Recommended Decks** The first option is whether solid sheathing and/or spaced sheathing is recommended (9A) and then the deck material type over which application is permitted (9B). The absence of an entry of an X implies that a deck type is not recommended. If 9B4 *OTHER* is not filled in, no deck is recommended other than those so indicated by the manufacturer in the preceding list.

**Item 12 Distribution** The only permitted responses to items 12A and 12B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases

where numbers were not provided, the response appears blank.

**Item 13 Fire Ratings** The entry should be made in 13A for the UL class rating (A, B, C) that the product has. The option is given to listers in 13B to reference ASTM E 108 rather than UL 790. This may indicate that tests were performed on their products by an independent laboratory rather than by UL.

**Item 14 Accepted by the Following Codes** See the section in this introduction on building code approvals.

The only permitted responses to this item are the listing of a code-setting agency or a governmental jurisdiction. (Other approvals may be listed in the Appendix by individual manufacturers.) Numbers in parenthesis refer to reports on a product issued as part of or in addition to the approval process.

## **Slate**

### **General Information**

Roofing slate is a dense, durable rock material that is basically nonabsorbent. Two properties of slate are cleavage and fracture. It has natural cleavage, which permits it to be easily split in one direction. Fracture, usually occurring at right angles to the cleavage, is called the grain. Roofing slates are commonly split so that the length of the slate runs in the direction of the grain. The surface texture of slate after being split for commercial use derives from the characteristics of the rock from which it was quarried. Some slate splits to a smooth, practically even surface, while others yield a surface that is rough and uneven.

The color of slate is determined by its chemical and mineral composition. Because these factors differ in various regions, roofing slates can be obtained in a variety of colors. In addition, exposure to weather causes slate to change in color. The degree of change varies depending on the slate. Those slates exhibiting minimal color change are known as "permanent" or "unfading." Slate that shows a more marked color change is known as "weathering" slate. In between unfading and weathering is "semi-weathering."

There are several classifications for slate roofs. The first is standard slate, which refers to slate that is generally from 3/16-in to 1/4-in. thick with uniform length. The category *Standard Smooth* used in item 3 refers to standard slate that has a relatively smooth

surface, in comparison with standard rough (or just "rough"). These slates have a rougher texture and are generally available in thicker pieces. Finally, there are graduated/textural slates; these are designed with varying lengths and thicknesses and are generally rougher than standard slates.

### **Notes on the Slate Section**

**Item 5 Colors Available** Manufacturers may select among the list of colors 5A through 5N and may enter an X or the words *weathering*, *semi-weathering*, or *unfading*. The absence of an entry for a given color means that the color is not available in any form.

**Item 6 Slope/Underlayment Recommendations** However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 7 Recommended Decks** The first option is whether solid sheathing and/or spaced sheathing is recommended (7A) and then the deck material type over which application is permitted (7B). The absence of an entry of an X implies that a deck type is not recommended. If 7B4 *OTHER* is not filled in, no deck is recommended other than those so indicated by the manufacturer in the preceding list.

**Item 11 Distribution** The only permitted responses to items 11A and 11B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

## **Synthetic Roof Components**

### **General Information**

The category of Synthetic Roof Components was created for this publication. It is not an industry term, but instead is a catch-all category for any steep-slope product made out of material other than felt/asphalt, metal, clay, concrete, slate, or fiber-cement. It is intended to encompass products made from plastics and similar synthetics. In general, these products will simulate traditional steep-slope materials, which is the

reason for the categories in item 3.1.

## Notes on the Synthetic Steep-Slope Roof Components Section

**Item 5 Material Composition** This is intended as an open-ended item that will allow manufacturers to describe the material from which their product is made in any way that they choose.

**Item 7 Slope/Underlayment Recommendations** However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment recommended for that "special" application. The absence of data for a "special" application generally implies that none is permitted.

**Item 8 Recommended Decks** The first option is whether solid sheathing and/or spaced sheathing is recommended (8A) and then the deck material type over which application is permitted (8B). The absence of an entry of an X implies that a deck type is not recommended. If 8B4 *OTHER* is not filled in, no deck is recommended other than those so indicated by the manufacturer in the preceding list.

**Item 11 Distribution** The only permitted responses to items 11A and 11B are *NO* (indicating that a product is not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of *YES* were not permitted, and, in cases where numbers were not provided, the response appears blank.

**Item 12 Technical Information** In this section, manufacturers may record fire and wind ratings and test results according to whatever standards befit their product(s); there are no restrictions to what may be entered for 12A or 12B.

## Underlayment Sheets

### General Information

Underlayments used in steep-slope roofing are generally organic felts, fiberglass mats, composites, or modified bitumen sheets. Coated felts and self-adhering modified sheets are frequently used as eaves flashing, commonly referred to as "ice dam" or "ice shield" protection.

Asphalt-saturated nonperforated organic felts are among the most common underlayments used for shingles; they are commonly designated as Type 15

and Type 30, or referred to as "No. 15 and No. 30," which is reflective of a once-used pound-per-square weight designation. The saturation process involves impregnating the fibers of the dry felt with asphalt and filling the voids. The coating process involves the application to the top and bottom surface of the sheets with mineral-stabilized coating asphalt. A further step may consist of application of mineral surfacing to one or both sides of the sheet.

Underlayment sheets are used for the variety of steep-slope membrane products listed. In the case of wood shakes, these sheets are produced in 18-in. widths as "interlayment" felts. When used, underlayments protect the deck until the roof covering is installed, maintain protection should part of a covering fail to, and separate the covering from the deck. They are usually required for a Class A fire rating. They are generally mechanically fastened, but can also be fully adhered—for example, in the case of ice shield modified bitumen sheets.

### Notes on the Underlayment Sheets Section

**Item 3 Product Category** The general category of underlayment sheet is provided here, without specific reference to ASTM standards. If 3A, 3B, or 3C is checked, further information is provided in item 4A. If 3D is checked, information will appear in item 4B.

**Item 4 Product Information** In item 4A is entered product information for underlayment sheets listed as felts in item 3. In 4A1, felts are listed according to type as defined by a specific ASTM standard or standards or generically. If the type is a generic description only, it will not be followed by an ASTM standard. Other information includes whether the felt is available as a specialty product, such as a shake felt; sheet width; size of the roll in square feet; and weight of the roll. In item 4B, the same information is requested of any underlayment listed as an "ice shield" in item 3. Additional information includes the kind of sheet and how it is installed.

**Item 5 Availability Restricted Regionally** Because of design considerations, some underlayment sheets may be produced for specific regions of the country only. In such cases, availability of the shingle may be limited to regional distributors or service locations.

**Item 6 Recommended for Application with:** In this section are listed the types of membrane products that the manufacturer recommends that the underlayment be used with. If 6H *OTHER* is not filled in, the underlayment is not recommended for use with another kind of membrane.

**Item 9 Distribution** The only permitted responses to items 9A and 9B are *NO* (indicating that a product is

not marketed by distributors or directly) or a number (of distributors or direct service locations). Responses of YES were not permitted, and, in cases where numbers were not provided, the response appears blank.

**Item 10 UL-Classified Prepared Roofing Accessory**

Here the manufacturer responds YES or NO concerning whether the underlayment sheet is listed in the *UL Roofing Materials and Systems Directory* as a prepared roofing accessory, intended for use as an accessory component of a prepared roof covering system. The classification pertains to external fire exposure only when the accessory is applied in accordance with instruction included with the prepared roofing. The underlayment and roof covering may be classified as A and/or C.

**Item 11 Complies with:** The permitted responses for ASTM standards are provided parenthetically. The appearance of NA is appropriate for those products that are excluded by the nature of a standard. ASTM D 224 covers organic roof felt, saturated with asphalt and coated on both sides with asphaltic compounds that may or may not contain mineral stabilizers or surfacing; ASTM D 226 covers asphalt-saturated organic felts, with or without perforations; ASTM D 2626 covers asphalt-saturated and coated organic felt base sheets with mineral granules on top, with or without perforations; ASTM D 4869 covers asphalt-saturated organic felt shingle underlayment for use as an underlayment with asphalt shingles; and ASTM 1970 covers modified bitumen self-adhering sheets used as underlayment. There is a provision for entry of other ASTM standards that the manufacturer feels applies to the product, in 11F.

**Item 12 Accepted by the Following Codes** See the section in this introduction on building code approvals.

The only permitted responses to this item are the listing of a code-setting agency or a governmental jurisdiction. (Other approvals may be listed in the Appendix by individual manufacturers.) Numbers in parenthesis refer to reports on a product issued as part of or in addition to the approval process.

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
AIR VENT INC. 3000 West Commerce St. Dallas, TX 75212 800/AIR-VENT FAX 800/635-7006									206	
ALCO-NVC, INC. P.O. Box 14001 Detroit, MI 48214 800/323-0029 FAX 313/331-4726										210
ALCOA BUILDING PRODUCTS 1501 Michigan St. Sidney, OH 45365 800/621-7466 FAX 513/498-6871						162				
ALTUSA/INTERCLAY, CORP. 6645 N.W. 77th Ave. Miami, FL 33166 305/471-5830 305/471-5883				126						
AMERICAN CEMWOOD CORPORATION P.O. Box C Albany, OR 97321 541/928-6397 FAX 541/928-8110			118							
ANDEK CORPORATION P.O. Box 392 Moorestown, NJ 08057 888/88ANDEK FAX 888/44ANDEK										211
ARS INDUSTRIES, INC. 9609 Parkway East, Suite E Birmingham, AL 35215 205/836-6777 FAX 205/836-4090						162				
ATAS INTERNATIONAL INC. 6612 Snowdrift Rd. Allentown, PA 18106 610/395-8445 FAX 610/395-9342						163				
ATLAS ROOFING CORPORATION 1775 The Exchange, #160 Atlanta, GA 30339 770/933-4478 FAX 770/952-3170	36 74	96								211

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
AUBURN TILE INC. 545 W. Main St., P.O. Box 10 Ontario, CA 91762 909/984-2841 FAX 909/984-1517					146					
BERRIDGE MANUFACTURING CO. 1720 Maury St. Houston, TX 77026 713/223-4971 FAX 713/236-9422 E-mail: sales@berridge.com						167				
BIRD INCORPORATED 1077 Pleasant St. Norwood, MA 02062 800/BIRD-INC FAX 781/762-6586	39 75	96								215
BPCO P.O. Box 3177 Wayne, NJ 07474-3177 973/595-6695 FAX 973/595-6717	45 79									215
BUCKINGHAM-VIRGINIA SLATE CORP. P.O. Box 8 Arvon, VA 23004 804/581-1131 OR 800/235-8921 FAX 804/581-1130 E-mail: buslate.com								202		
CELADON P.O. BOX 309 New Lexington, OH 43764 800/CEL-SLATE FAX 614/342-5229				126						
CELOTEX CORPORATION P.O. Box 31602 Tampa, FL 33631 813/873-1700 FAX 813/873-4080 E-mail: ecsteiner@celotex.com	42 77	96								215
CERTAINTED CORP./ROOFING PRODUCTS GROUP P.O. Box 1100 1400 Union Meeting Rd. Blue Bell, PA 19422 800/322-3060 FAX 610/341-6212	45 79									215
CLASSIC PRODUCTS, INC. P.O. Box 701 Piqua, OH 45356 800/543-8938 FAX 513/773-9261						169				



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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
DANIEL PLATT LTD. c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, NY 14219 905/627-4035 FAX 905/627-9648				127						
DECRA ROOFING SYSTEM/ TASMAN ROOFING, INC. 1230 Railroad Street Corona, CA 91720 909/272-8180 FAX 909/272-4476						171				
DURA-LOC ROOFING SYSTEMS LIMITED Box 220 Courtland, ON Canada N0J 1E0 519/688-2200 FAX 519/688-2201						172				
ELK 14643 Dallas Parkway, Suite 1000 Dallas, TX 75240 972/851-0400 FAX 972/851-0401 E-mail: mikem@elk.com	49 81	98								
ETERNIT, INC. 210 Corporate Dr. Reading, PA 19605 610/926-0100 OR 800/233-3155 FAX 610/926-9232 Web: www.etermitusa.com			118							
EVERGREEN SLATE COMPANY, INC. 68 E. Potter Ave. P.O. Box 248 Granville, NY 12832 518/642-2530 FAX 518/642-9313 E-mail: slate@evergreenslate.com								202		
FIELDS CORPORATION 2240 Taylor Way Tacoma, WA 98421 253/627-4098 FAX 253/383-2181										216
GAF MATERIALS CORP. 1361 Alps Road Wayne, NJ 07470 973/628-3000 FAX:	50 81	100								219
GEORGIA-PACIFIC CORPORATION 4300 Wildwood Pkwy., Suite 300 Atlanta, GA 30339 770/221-2441 FAX 770/221-8149	52 83	102								

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GERARD ROOFING TECHNOLOGIES 955 Columbia Street Brea, CA 92821-2923 714/529-0407 OR 800/23-ROOFS FAX 714/529-6643 E-mail: info@gerardusa.com						173				
GLADDING, MCBEAN P.O. BOX 97 Lincoln, CA 95648 800/964-2529 FAX 916/645-1723				127						
GLOBE BUILDING MATERIALS, INC. 2230 Indianapolis Blvd. Whiting, IN 46394 219/473-4500 FAX 219/473-4504	54 84									221
GREEN RIVER LOG SALES P.O. Box 515 Sumas, WA 98295 800/663-8707 FAX 604/820-3872							192			
GS ROOFING PRODUCTS CO. INC. 5525 MacArthur Blvd. Suite 900 Irving, TX 75038 972/580-5600 FAX 972/580-5692 Web Site: www.gsroof.com	57 85									221
HEISTERHOLZ c/o HG ROOFING & CONSULTING P.O. Box 406 Lakeville, IN 46536 219/784-2006 FAX 219/784-3872				129						
HILLTOP SLATE INC. P.O. Box 201 Middle Granville, NY 12849 518/642-2270 FAX 518/642-1220								203		
HUGENOT FENAL c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, NY 14219 905/627-4035 FAX 905/627-9648				130						
IKO MANUFACTURING INC. 120 Hay Rd. Wilmington DE 19809 302/764-3100 FAX 302/764-5852	59 87	106								

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
JAMES HARDIE BUILDING PRODUCTS INC 26300 La Alameda, Suite 250 Mission Viejo, CA 92691 714/348-1800 FAX 714/367-0185			119							
LOUISIANA-PACIFIC, INC. 5 Centerpointe Dr., Suite 500 Lake Oswego, OR 97035 503/624-9004 FAX 503/624-9088 E-mail: Jonathon.Rogers@LPCorp.com			120							
LUDOWICI ROOF TILE, INC. P.O. BOX 69 New Lexington, OH 43764 800/945-8453 FAX 614/342-5229				131						
MALARKEY ROOFING COMPANY P.O. Box 17217 Portland, OR 97217 503/283-1191 FAX 503/283-5405 Web: www.malarkey-rfg.com	63 89	104								221
MAXITILE, INC. 17141 S. Kingsview Ave. Carson, CA 90746 310/217-0316 FAX 310/515-6851			120							
MBCI P.O. Box 38217 Houston, TX 77238 281/445-8555 FAX 281/445-1791 Web: www.mbc.com						174				
M.C.A. CLAY ROOF TILE 1985 Sampson Ave. Corona, CA 91719 909/736-9590 OR 800/736-6221 FAX 909/736-6052				139						
MCELROY METAL CO. 1500 Hamilton Road Bossier City, LA 71111 318/747-8000 FAX 318/747-8029 E-mail: dowens@softdisk.com						176				
METAL SALES MANUFACTURING CORP. 7800 State Road 60 Sellersburg, IN 47172 812/246-0819 FAX 812/246-0829						177				

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
MET-TILE INC. P.O. Box 4268 Ontario, CA 91761 909/947-0311 FAX 909/947-1510 E-mail: mettile1@cyberg8t.com Web: www.met-tile.com/roof						180				
MONIER LIFETILE 1 Park Plaza, Suite 900 Irvine, CA 92614 714/756-1605 FAX 714/756-2401 Web: www.monier.com					146					
MONSEY BAKOR Cold Stream Road Kimberton, PA 19442 610/933-8888 FAX 610/933-4598 E-mail: monsey-bakor.com										223
NEWFOUNDLAND SLATE INC. 8800 Sheppard Ave. East Scarborough, ON Canada M1B 5R4 416/281-8181 OR 800/975-2835 FAX 416/281-8842								203		
OWENS CORNING One Owens Corning Pkwy. Toledo, OH 43659 419/248-8000 FAX 419/248-7354 E-mail: owenscorning.com	64 89	106							206	223
PABCO ROOFING MANUFACTURERS 1718 Thorne Rd. Tacoma, WA 98421 253/272-0374 FAX 253/572-4997 E-mail: pabcoroof@paccoast.com	68 91	108								223
PENN BIG BED SLATE CO., INC. 8450 Brown St./ P.O. Box 184 Slatington, PA 18080 610/767-4601 FAX 610/767-9252								203		
PERFECTION: THE VERY BEST IN BUILDING PRODUCTS P.O. Box 1524 Piqua, OH 45356 888/788-2427 OR 937/778-5117 FAX 937/778-5116 E-mail: classprod@lts.net						181				
PETERSEN ALUMINUM CORP. 1005 Tonne Rd. Elk Grove Village, IL 60007 800/323-1960 FAX 800/722-7150						181				

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
RE-CON BUILDING PRODUCTS P.O. Box 5659 Eugene, OR 07405 800/347-3373 FAX 541/349-8928			121							
RISING & NELSON SLATE CO., INC. P.O. Box 336 Middle Granville, NY 12849 518/642-3333 518/642-1819								204		
SANDTOFT ROOF TILES c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, NY 14219 905/627-4035 FAX 905/627-9648 E-mail: nrts@wchat.on.ca				141						
SANTAFÉ TILE CORPORATION 10302 NW South River Dr., Bay #16 Medley, FL 33178 305/885-9002 FAX 305/888-0050				142						
SPRINGHOUSE INC. 97 Thames Rd., East Exeter, ON Canada N0M 1S3 519/235-1566 FAX 519/235-2852						185				
STAVE LAKE CEDAR MILLS Box 730 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							195			
STIRLING BUILDING PRODUCTS LIMITED / MARLEY ROOF TILES Box 278, 281 Alliance Rd. Milton, ON Canada L9T 4N9 800/521-5832 FAX 905/878-8334					155					
TAMARK MANUFACTURING, LLC P.O. Box 1386 508 Stella Ave. Savannah, GA 31402 912/232-0786 FAX 912/232-7826 E-mail: shakeman@worldnet.atl.net								196		

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TAMKO ROOFING PRODUCTS INC. P.O. Box 1404 220 W. 4th St. Joplin, MO 64801 417/624-6644 FAX 417/624-8935 E-mail: tamko.com	69 93	110								224
TBF c/o THE NORTHERN ROOF TILE SALES 4408 Mile Strip Road, Suite 266 Blasdells, NY 14219 905/627-4035 FAX 905/627-9648 E-mail: nrts@wchat.on.ca				143						
TC MIRADRI 3500 Parkway Lane, Suite 500 Norcross, GA 30092 770/729-1004 FAX 770/729-1829 E-mail: W.Harvie@Miradri.com										226
TUILERIE DE PONTIGNY ALEONARD c/o NORTHERN ROOF TILE SALES CO. 4408 Mile Strip Road, Suite 266 Blasdell, NY 14219 905/627-4035 FAX 905/627-9648 E-mail: nrts@wchat.on.ca				144						
ULTRA SEAM INC. P.O. Box 710 Morganfield, KY 42437 800/874-7326 FAX 248/960-0460							186			
U.S. TILE COMPANY A Division of Boral Industries, Inc. 909 Railroad St./P.O. Box 1509 Corona, CA 91718-1509 909/737-0200 FAX 909/734-9591				143						
VINCENT METAL GOODS P.O. Box 360 Minneapolis, MN 55440 612/717-9000 FAX 612/717-7122						188				
WALDUN FOREST PRODUCTS PARTNERSHIP Box 96 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							197			

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Component	Clay Tile	Concrete Tile	Metal Roof Component	Wood Shakes and Shingles	Slate	Synthetic Roof Component	Under- layment Sheets
WARRIOR ROOFING MANUFACTURING, INC. P.O. Box 40185 Tuscaloosa, AL 35404 205/553-1734 FAX 205/553-1755										227
WESTILE 8311 West Carder Court Littleton, CO 80125 303/791-1700 FAX 303/791-9906 Web: www.westile.com					156					
W.R. GRACE & CO.-CONN. 62 Whitmore Ave. Cambridge, MA 02140 617/876-1400 FAX 617/498-2643 Web: www.gcp-grace.com										229

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# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	PINNACLE 40	PINNACLE 30	PINNACLE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 10 NATIONAL	FIBERGLASS LAMINATED CERAMIC 10 NATIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 1/2 X 36 3/8 5 1/2 7 72 4	12 1/2 X 36 3/8 5 1/2 7 72 3	12 X 36 5 7 80 4
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/8 X 39 3/8 5 5/8 7 1/2 66 4	13 1/8 X 39 3/8 5 5/8 7 1/2 66 3	
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
STORMMASTER LM SBS MODIFIED	STORMMASTER ST SBS MODIFIED	GLASSMASTER 25	GLASSMASTER 25 ALPINE	GLASSMASTER 25 MATTERHORN	GLASSMASTER 20
FIBERGLASS LAMINATED CERAMIC 6' NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 6' NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 8' NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 5' NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 5' NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 11' REGIONAL
X	X	X	X	X	X
NO	NO	NO	NO	NO	NO
12 X 36 5 7 80 4	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3
NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY
4:12 15-LB. FELT	2:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
4:12 15-LB. FELT STORM-MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	2:12 2 15-LB. FELT+H19S, STORMMASTER DG OPTIONAL
X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE
ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478
X	X	X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	GLASSMASTER T-LOK	WEATHERMASTER ST	WEATHERMASTER T-LOK
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 2 REGIONAL	ORGANIC NONLAMINATED CERAMIC 11 REGIONAL	ORGANIC NONLAMINATED CERAMIC 2 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	21 1/2 X 21 12 X 12 SHINGLE NA 99 3	12 X 36 5 7 60 3	21 1/2 X 21 12 X 12 SHINGLE NA 99 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  STORMMASTER DG OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BIRD	BIRD	BIRD	BIRD
CHALET	LEGEND	WOODSCAPE 40	WOODSCAPE 30	WOODSCAPE 25	SEAL KING 30
FIBERGLASS NONLAMINATED CERAMIC 10 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5.5/16 7 78 3	12 X 36 5 7 80 3	12 X 36 5 2 80 4 300	12 X 36 5 2 80 4 265	12 X 36 5 2 78 3 245	12 X 36 5 2 80 3 250
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT
2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 ROOFER'S SELECT OR ICE & WATER BARRIER	2:12 ROOFER'S SELECT OR ICE & WATER BARRIER	2:12 ROOFER'S SELECT OR ICE & WATER BARRIER	2:12 ROOFER'S SELECT OR ICE & WATER BARRIER
X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X	X	X	X
		1994	1974	1987	1989
ATLAS REGIONAL SALES OFFICES 770/933-4478	ATLAS REGIONAL SALES OFFICES 770/933-4478	G. ZIMMERMAN SALES OFFICE C. PATENAUE	G. ZIMMERMAN SALES OFFICE C. PATENAUE	G. ZIMMERMAN SALES OFFICE C. PATENAUE	G. ZIMMERMAN SALES OFFICE C. PATENAUE
X	X				

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	BIRD	BIRD	BIRD
2. PRODUCT NAME	SEAL KING 25	JET 25	WIND SEAL 20
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 60 3 225	12 X 36 5 2 60 3 225	12 X 36 5 2 60 3 200
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 ROOFER'S SELECT  2:12 ROOFER'S SELECT OR ICE & WATER BARRIER	4:12 ROOFER'S SELECT  2:12 ROOFER'S SELECT OR ICE & WATER BARRIER	4:12 ROOFER'S SELECT  2:12 ROOFER'S SELECT OR ICE & WATER BARRIER
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1986	1992	1983
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	G. ZIMMERMAN SALES OFFICE C. PATENAUE	G. ZIMMERMAN SALES OFFICE C. PATENAUE	G. ZIMMERMAN SALES OFFICE C. PATENAUE
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

BIRD	BPCO	BPCO	BPCO	BPCO	BPCO
MASTERBILT 25	ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK	ESGARD PRO STANDARD
ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 78 3 230	12 X 36 5 2 80 4 275	13 1/2 X 39 3/8 5 5/8 2 65 3 235	13 1/4 X 39 3/8 5 5/8 2 65 3 250	21 3/4 X 23 13/16 15 7/8 2 84 3 225	12 X 36 5 2 80 3 222
REGIONALLY	REGIONALLY	NO	NO	NO	NO
4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT
2:12 ROOFER'S SELECT OR ICE & WATER BARRIER			2:12 2 15-LB. FELTS OR PROGARD		2:12 2 15-LB. FELTS OR PROGARD
X	X	X	X	X	X
1998	1994	1979	1989	1981	1992
G. ZIMMERMAN SALES OFFICE C. PATENAUE	P. BACCHIONI 973/595-6695 SALES	P. BACCHIONI 973/595-6695 SALES	P. BACCHIONI 973/595-6695 SALES	P. BACCHIONI 973/595-6695 SALES	P. BACCHIONI 973/595-6695 SALES

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	BPCO	BPCO	CELOTEX CORPORATION
2. PRODUCT NAME	RAMPART	CITADEL	FRS AMBASSADOR SHAKE
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 15. REGIONAL	ORGANIC NONLAMINATED CERAMIC 12. REGIONAL	FIBERGLASS LAMINATED CERAMIC 5. NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 2 65 3 230	13 1/4 X 39 3/8 5 5/8 2 65 3 215	13 1/4 X 38 3/4 5 5/8 7 5/8 72 6 390 APPROX.
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	NO	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 ROOFER'S SELECT  2:12 2 15-LB. FELTS OR PROGARD	4:12 15-LB. FELT  2:12 2 15-LB. FELTS OR PROGARD	4:12 NO. 15-LB. FELT  2:12 2 15-LB. FELTS OR ICE & WATER BARR.
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X  	X X  	X X  
10. YEAR PRODUCT FIRST SOLD	1970	1960	
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	P. BACCHIONI 973/595-6695 SALES	P. BACCHIONI 973/595-6695 SALES	800/CELOTEX REGIONAL OFFICE OR 800/662-4609
14. SEE APPENDIX IF CHECKED			X

NA=not applicable

# Asphalt Shingles Part 1

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
FRS PRESIDENTIAL SHAKE	PRESIDENTIAL SHAKE	FRS DIMENSIONAL /40 SHAKE	DIMENSIONAL /40 SHAKE	FRS DIMENSIONAL /30 SHAKE	DIMENSIONAL /30 SHAKE
FIBERGLASS LAMINATED CERAMIC 10. REGIONAL	FIBERGLASS LAMINATED CERAMIC 10. NATIONAL	FIBERGLASS LAMINATED CERAMIC 7. REGIONAL	FIBERGLASS LAMINATED CERAMIC 7. NATIONAL	FIBERGLASS LAMINATED CERAMIC 6. REGIONAL	FIBERGLASS LAMINATED CERAMIC 12. NATIONAL
		X	X	X	X
NO	NO	YES	NO	YES	NO
14 1/4 X 40 8 1/4 6 90 5 360 APPROX.	14 1/4 X 40 8 1/4 6 90 5 360 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 66 4 340 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 66 4 340 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 66 4 300 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 66 4 300 APPROX.
NATIONALLY	NATIONALLY	REGIONALLY	NATIONALLY	REGIONALLY	NATIONALLY
4:12 NO. 15-LB. FELT	4:12 NO. 15-LB. FELT	4:12 NO. 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 2 15-LB. FELTS OR ICE & WATER BARR.
X X	X X	X X	X X	X X	X X
800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609
X	X	X	X	X	X



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	FRS DIMENSIONAL /25 SHAKE	DIMENSIONAL /25 SHAKE	STORM KING/25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC .10 REGIONAL	FIBERGLASS LAMINATED CERAMIC .13 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC .19 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 38.75 5 5/8 7 5/8 64 3 240 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 64 3 240 APPROX.	12 X 36 5 2 80 3 240 APPROX.
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			12 1/4 X 36 5 1/8 2 78 3 240 APPROX.
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	NATIONALLY	NO
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  2:12 2 15-LB. FELTS OR ICE & WATER BARR.	4:12 15-LB. FELT  2:12 2 15-LB. FELTS OR ICE & WATER BARR.	4:12 15-LB. FELT  2:12 2 15-LB. FELTS OR ICE & WATER BARR.
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X  	X X  	X X  
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

CELOTEX CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
STANDARD STRIP/20	GRAND MANOR SHANGLE	CARRIAGE HOUSE SHANGLE	HATTERAS	HALLMARK SHANGLE	INDEPENDENCE SHANGLE
FIBERGLASS NONLAMINATED CERAMIC 21 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7/8 NATIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 NATIONAL	ORGANIC LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9/8/9 REGIONAL
X	X	X	X	X	X
NO	NO	NO	NONLAMINATED	YES	YES
12 X 36 5 2 80 3 205 APPROX.	18 X 36 8 2 50 5 425	18 X 36 8 2 50 5 355	18 X 36 8 2 50 3 235	12 X 36 5 2 80 5 330	12 X 36 5 2 80 4 300
12 1/4 X 36 5 1/8 2 78 3 205 APPROX.					
NO	NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	REGIONALLY
4:12 15-LB. FELT	4:12 ROOFERS' SELECT	4:12 ROOFERS' SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT
2:12 2 15-LB. FELTS OR ICE & WATER BARR.	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD
X X	X X X	X X X	X X X	X X X	X X X
	1991	1993	1998	1965	1976
	NO	NO	YES NO	NO	NO
800/CELOTEX REGIONAL OFFICE OR 800/662-4609	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
X	X	X		X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME	LANDMARK 40	LANDMARK 30	LANDMARK 25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 9/9/11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9/9/7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 80 4 300	12 X 36 5 2 80 4 265	12 X 36 5 2 80 3 245
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 ROOFER'S SELECT  2:12 WINTERGUARD	4:12 ROOFER'S SELECT  2:12 WINTERGUARD	4:12 ROOFER'S SELECT  2:12 WINTERGUARD
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1996	1996	1997
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO	NO	YES NO
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
CLASSIC HORIZON SHANGLE	NEW HORIZON SHANGLE	HIGHLANDS-AR SHANGLE	HEARTHSTEAD	CUSTOM SEALDON 30	CERTAINTED XT30
FIBERGLASS OVERLAY CERAMIC 8 REGIONAL	FIBERGLASS OVERLAY CERAMIC 10/8 REGIONAL	FIBERGLASS OVERLAY CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10/11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11/13/10 REGIONAL
X			X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 3 240	12 X 36 5 2 80 3 245/250	12 X 36 5 2 80 3 240	12 X 36 5 2 80 3 225	12 X 36 5 2 80 3 250	12 X 36 5 2 80 3 250/245
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT
2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD	2:12 WINTERGUARD
X X X	X X X	X X X	X X X	X X X	X X X
1982	1996	1997	1985	1991	1997
NO	YES NO	YES NO	NO	NO	YES NO
LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
X	X	X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
2. PRODUCT NAME	CERTAINTEED XT25	FUNGUSBUSTER 25	SEALDON 25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 11/10/10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 11 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 80 3 230/225	12 X 36 5 2 80 3 225	12 X 36 5 2 80 3 225
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 ROOFER'S SELECT  2:12 WINTERGUARD	4:12 ROOFER'S SELECT  2:12 WINTERGUARD	4:12 ROOFER'S SELECT  2:12 WINTERGUARD
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1985	1984	1950s
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO	NO	NO
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	ELK	ELK	ELK
CERTAINTEED 20	SOLID SLAB	CUSTOM LOK 25	PRESTIQUE PLUS HIGH DEFINITION	PRESTIQUE I HIGH DEFINITION	PRESTIQUE II RAISED PROFILE
FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9/10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 788 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8/8/9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8/8/9 REGIONAL
X	X	X	X	X	X
YES	YES	YES	NO	NO	NO
12 X 36 5 2 80 3 200	12 X 36 5 2 80 3 225	20 13/16 X 21 1/2 14 2 99 3 250	13 1/4 X 39 3/8 5 5/8 64 4 375	13 1/4 X 39 3/8 5 5/8 64 4 300	13 1/4 X 38 3/4 5 5/8 66 3
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 ROOFER'S SELECT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
2:12 WINTERGUARD	2:12 WINTERGUARD		2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS
X X X	X X X	X X X	X X CHIPBOARD	X X CHIPBOARD	X X CHIPBOARD
1970s	1980s	1960s	1985	1978	1982
NO	NO	NO	NO	NO	NO
LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	REG. SALES OFFICE TX: 800/289-9876 CA: 800/355-4968 AL: 800/945-5545	REG. SALES OFFICE TX: 800/289-9876 CA: 800/355-4968 AL: 800/945-5545	REG. SALES OFFICE TX: 800/289-9876 CA: 800/355-4968 AL: 800/945-5545
X	X	X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ELK	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	CAPSTONE	DUBL-COVERAGE TITE-ON	GRAND SEQUOIA
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 3. NATIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 7. REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 6. REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 1/8 X 39 1/2 5 7 1/2 4 > 300	20 13/16 X 21 1/2 6 100 3	40 X 17 5 7 7 1/2 5
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NO	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  2:12 2 15-LB. FELTS	4:12 15-LB. FELT	4:12 15-LB. FELT  2:12-4:12 2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X  CHIPBOARD	X X	X X
10. YEAR PRODUCT FIRST SOLD	1992	1984	1996
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO		
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	REG. SALES OFFICE  TX: 800/289-9876 CA: 800/355-4968 AL: 800/945-5545	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
MARQUIS WEATHER MAX	ROYAL SOVEREIGN	SENTINEL	SLATELINE	ORIGINAL TIMBERLINE	TIMBERLINE COUNTRY MANSION
FIBERGLASS NONLAMINATED CERAMIC COATED 5/7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 6/11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 6/10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 6 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 8/11 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 5
X	X	X	X	X	X
YES	NO	NO	YES	NO	NO
12 X 36 5 2 80 3	12 X 36 5 2 80 3	12 X 36 5 2 80 3	17 X 40 7 1/2 2 48 4	12 X 36 5 2 80 4	17 X 40 7 1/2 2 48 6
	13 1/4 X 39 3/8 5 5/8 2 65 3	13 1/4 X 39 3/8 5 5/8 2 65 3		13 1/4 X 39 3/8 5 5/8 2 64 4	
NO	NO	NO	REGIONALLY	NATIONALLY	NATIONALLY
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
2:12-4:12 2 15-LB. FELTS	2:12-4:12 2 15-LB. FELTS	2:12-4:12 2 15-LB. FELTS	2:12-4:12 2 15-LB. FELTS	2:12-4:12 2 15-LB. FELTS	2:12-4:12 2 15-LB. FELTS
X X	X X	X X	X X	X X	X X
1991	1984	1980	1988	1980	1998
GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411
X	X	X	X	X	X



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GEORGIA-PACIFIC
2. PRODUCT NAME	TIMBERLINE ULTRA	TIMBERLINE 25	ASPHALT 20
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC COATED 8/1.1 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 8/1.1 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 80 4	12 X 36 15/16 5 2 78 3	12 X 36 5 7 80 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 2 64 4	13 1/4 X 39 3/8 5 5/8 2 64 3	
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  2:12-4:12 2 15-LB. FELTS	4:12 15-LB. FELT  2:12-4:12 2 15-LB. FELTS	4:12 TYPE-15 FELT  2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X  	X X  	X X X
10. YEAR PRODUCT FIRST SOLD	1990	1995	1978
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			128
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	GAF REGIONAL OFFICE 800/ROOF-411	GAF REGIONAL OFFICE 800/ROOF-411	800/839-2588  770/933-4478
14. SEE APPENDIX IF CHECKED	X	X	

NA=not applicable

# Asphalt Shingles Part 1

GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC
PREMIUM 25	SUMMIT	SUMMIT III	T-LOCK 20	TOUGH-GLASS	TOUGH-GLASS PLUS
FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 NATIONAL	FIBERGLASS LAMINATED CERAMIC 8 NATIONAL	ORGANIC NONLAMINATED CERAMIC 2 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL
X			X	X	X
YES	NO	NO	YES	YES	YES
12 X 36 5 7 80 3	12 1/2 X 36 3/8 5 1/2 7 72 3	12 1/2 X 36 3/8 5 1/2 7 72 4	21 X 21 1/2 12 X 12 SHINGLE NA 99 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3
	13 1/8 X 39 3/8 5 5/8 7 1/2 66 3	13 1/8 X 39 3/8 5 5/8 7 1/2 66 4			
NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	NATIONALLY	NATIONALLY
4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT
2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION
X X X	X X X	X X X	X X X	X X X	X X X
1987	1986	1986	1981	1979	1985
128	128	128	128	128	128
800/839-2588 770/933-4478	800/839-2588 770/933-4478	800/839-2588 770/933-4478	800/839-2588 770/933-4478	800/839-2588 770/933-4478	800/839-2588 770/933-4478

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	TOUGH-GLASS T-LOCK	CASCADE 25	COPPER MOUNTAIN SHADOW
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 2 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 REGIONAL	ORGANIC LAMINATED CERAMIC 5 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES		NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	21 X 21 1/2 12 X 12 SHINGLE NA 99 3	12 X 36 5 6 80 4 245	12 X 36 5 6 80 4 290
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY		NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 TYPE-15 FELT  2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	4:12 NO.-15 FELT	4:12 NO.-15 FELT
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD D. OTHER (specify)	X X X	X	X
10. YEAR PRODUCT FIRST SOLD	1981	1998	1997
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	128		
13A. FOR SALES INFORMATION, CONTACT:	800/839-2588	800/456-5649	800/456-5649
13B. FOR TECHNICAL INFORMATION, CONTACT:	770/933-4478	800/456-5649	800/456-5649
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
FRENCH ESTATE	FRENCH ROYALE	GLOBE 25	GLOBE 30	KLIP-LOK	PREMIER SHADOW
ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL
X	X	X	X	X	X
NO	NO	NO	NO	NO	NO
16 X 16	19 1/2 X 21 5/8	12 X 36	12 X 36	16 X 16	12 X 36
82 2	100 3	5 6 80 3	5 6 80 3	82 2	5 6 80 3 250
NO	NO	NO	NO	NO	NO
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
X	X	X	X	X	X
1995	1995	1989	1989	1941	1995
800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649
800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	PREMIER SHAKE 25	PROSEAL 30	PROSEAL 30 RX
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 NA 80 3 250	12 X 36 5 6 80 3 250	12 X 36 5 6 80 3 250
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	NO	NO
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1968	1995	1997
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
SUPER SEAL	SUPER SEAL RX	WINDLOCK	ARCHITECT 80/ ESTATE	FIRE-HALT	FIRESCREEN
ORGANIC NONLAMINATED CERAMIC 14 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13/10/12 REGIONAL
X	X				X
		X	X	X	
NO	NO	NO	NO	NO	NO
12 X 36 5 6 80 3	12 X 36 5 6 80 3 225	19 1/2 X 21 5/8 100 3			12 X 36 5 2 80 3
			13 1/4 X 39 3/8 5 5/8 2 64 4 300	13 1/4 X 39 3/8 5 5/8 2 64 3 240	13 1/4 X 39 3/8 5 5/8 7 5/8 64 3 200
NO	NO	NO	NATIONALLY	NATIONALLY	NATIONALLY
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
2:12 2 NO.-15 FELTS			2:12 2 NO.-15 FELTS	2:12 2 NO.-15 FELTS	2:12 2 NO.-15 FELTS
X	X	X	X	X	X
1958	1997	1955			
			MILLIONS	MILLIONS	MILLIONS
			1000+ NO	1000+ NO	1000+ NO
800/456-5649	800/456-5649	800/456-5649	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600
800/456-5649	800/456-5649	800/456-5649			
			X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
2. PRODUCT NAME	FIREScreen PLUS 2000	HIGH SIERRA	ULTIMATE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 13/10/12 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 60 3		13 1/4 X 39 3/8 5 5/8 7 5/8 64 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 7 5/8 64 3 230	13 1/4 X 39 3/8 5 5/8 2 64 4 330	
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED	100,000+	MILLIONS	100,000+
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	1000+ NO	1000+ NO	1000+ NO.-15 FELT
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Asphalt Shingles Part 1

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
ARISTOCRAT 25	ARMOUR LOCK	ARMOUR PLUS 20	CAMBRIDGE ULTRA SHADOW	CASCADIA 30	CATHEDRAL
ORGANIC NONLAMINATED CERAMIC 13 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 NATIONAL	FIBERGLASS LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL
X		X			
	X		X	X	X
YES	YES	YES	NO	YES	
13 1/4 X 39 3/8 5 5/8 2 65 3 238	20 7/8 X 23 7/8 16 2 86 3 228	13 1/4 X 39 3/8 5 5/8 2 65 3 213	14 1/4 X 39 3/16 6 1/8 2 60 3 249	13 7/8 X 40 7/8 5 7/8 2 56 4 70	12 1/4 X 36 5 1/8 2 78 3 235
12 1/4 X 36 5 1/8 2 78 3 231			13 7/8 X 40 7/8 5 7/8 2 60 3 247		
REGIONALLY	REGIONALLY	REGIONALLY	NATIONALLY	REGIONAL	REGIONALLY
4:12 NA	4:12 NA	4:12 NA	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD		2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD		2:12 15-LB. FELT WATER SHIELD	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD
X X	X X	X X	X X		X X
1967	1959	1979	1994	1998	1996
NO	NO	NO	NO	NO	NO
800/323-7171	800/323-7171	800/323-7171	800/323-7171	800/323-7171	800/323-7171
800/323-7171	800/323-7171	800/323-7171	800/323-7171	800/323-7171	800/323-7171



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	CHATEAU ULTRA SHADOW	CROWNE 30	DYNASTY
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC LAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4/5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	14 3/8 X 39 3/16 6 1/8 2 60 4 300	13 1/4 X 39 3/8 5 5/8 2 65 3 252	13 3/8 X 40 5 3 72 4 280
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 7/8 X 40 7/8 5 7/8 2 78 3 254	12 1/4 X 36 5 1/8 2 78 3 254	
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT	4:12 NA	4:12 NO.-15 FELT
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD D. OTHER (specify)	X X	X X	X X
10. YEAR PRODUCT FIRST SOLD	1978	1995	1995
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO	NO	NO
13A. FOR SALES INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
IMPERIAL GENTRY 25	IMPERIAL GLASS	IMPERIAL SEAL	NEW ENGLANDER 25	RENAISSANCE XL	ROYAL VICTORIAN
FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 1/4 X 36 5 1/8 2 78 3 235	12 1/4 X 36 5 1/8 2 78 3 207	12 1/4 X 36 5 1/8 2 78 3 216	13 1/4 X 39 3/8 5 5/8 2 65 3 239	13 1/4 X 39 3/8 5 5/8 2 65 3 238	13 1/4 X 39 3/8 5 5/8 2 65 3 240
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 NA	4:12 NA	4:12 NA	4:12 NA
2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	2:12	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD
X X	X X	X X	X X	X X	X X
1987	1987	1987	1982	1992	1992
NO	NO	NO	NO	NO	NO
800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/323-7171 800/323-7171

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	SKYLINE 25	STORMTITE 25	ULTRA LOCK 25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 2 65 3 247	20 7/8 X 23 7/8 16 2 84 3 250	23 7/8 X 20 7/8 16 2 86 3 250
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			21 1/2 X 21 1/2 14 2 98 3 243
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NA  2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	4:12 NO. 15 FELT  NO. 15 FELT WATER SHIELD	4:12 NA  
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X  		X X  
10. YEAR PRODUCT FIRST SOLD	1978	1998	1990
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO	NO	NO
13A. FOR SALES INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY
#202 DURA-SEAL	#204 DURA-SEAL	#230 ALASKAN SBS MODIFIED	#240 HURRICANE SBS MODIFIED ALGAE RESISTANT	#271 HIGHLANDER-25	#272 LEGACY-30 SBS MODIFIED
FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	POLYGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	POLYGLASS LAMINATED CERAMIC 8 NATIONAL
X	X	X	X	X	X
NO	NO	NO	NO	NO	NO
13 1/4 X 39 3/8 5 5/8 2 66 3 205	13 1/4 X 39 3/8 5 5/8 2 66 3 240	13 1/4 X 39 3/8 5 5/8 2 66 3 235	13 1/4 X 39 3/8 5 5/8 2 66 3 235	13 1/4 X 39 5 5/8 2 66 3 245	13 1/4 X 40 5 5/8 2 66 4 275
NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY
4:12 15- OR 30-LB. FELT #501 UDL	4:12 15- OR 30-LB. FELT #501 UDL	4:12 15- OR 30-LB. FELT 2-#501 UDL	4:12 15- OR 30-LB. FELT 2-#501 UDL	4:12 15- OR 30-LB. FELT 2-#501 UDL	4:12 15- OR 30-LB. FELT 2-#501 UDL
2:12 2 15-LB. FELTS #501 UDL	2:12 2 15-LB. FELTS #501 UDL	2:12 2 15-LB. FELTS 2-#501 UDL	2:12 2 15-LB. FELTS 2-#501 UDL	2:12 2 15-LB. FELTS 2-#501 UDL	2:12 2 15-LB. FELTS 2-#501 UDL
X X X	X X X	X X X	X X X	X X X	X X X
1977	1978	1986	1993	1997	1997
200+	200+	200+	200+	200+	200+
G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	MALARKEY ROOFING COMPANY	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME	#272 LEGACY-30 SBS MODIFIED ALGAE RESISTANT	OAKRIDGE 40 DEEP SHADOW ARCHITECTURAL	OAKRIDGE 40 AR DEEP SHADOW ARCHITECTURAL
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	POLYGLASS LAMINATED COPPER .8 NATIONAL	FIBERGLASS LAMINATED CERAMIC .9 REGIONAL	FIBERGLASS LAMINATED CERAMIC .6 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 40 5 5/8 2 66 4 275	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15- OR 30-LB. FELT 2-#501 UDL 2:12 2 15-LB. FELTS 2-#501 UDL	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES 2:12 2 NO.-15 FELTS & WEATHERLOCK	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES 2:12 2 NO.-15 FELTS & WEATHERLOCK
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X	X
10. YEAR PRODUCT FIRST SOLD	1997	1987	1987
11. NUMBER OF SQUARES INSTALLED		MILLIONS	
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	200+		
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	G. MALARKEY 800/545-1191 J. DECHANDT M. MALARKEY	800/GET-PINK  800/ROOFING	800/GET-PINK  800/ROOFING
14. SEE APPENDIX IF CHECKED		X	X

NA=not applicable

# Asphalt Shingles Part 1

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
OAKRIDGE 30 SHADOW ARCHITECTURAL	OAKRIDGE 30 AR SHADOW ARCHITECTURAL	OAKRIDGE 25 ARCHITECTURAL	OAKRIDGE 25 AR ARCHITECTURAL	PROMINENCE 30 YR. ARCHITECTURAL	PROMINENCE AR 30 YR. ARCHITECTURAL
FIBERGLASS LAMINATED CERAMIC 10. REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10. REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12. REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL
X	X	X	X	X	X
NO	YES	NO	YES	NO	YES
13 1/4 X 39 3/8 5 5/8 7 5/8 64 4	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4	13 1/4 X 38 3/4 5 5/8 7 5/8 66 3	13 1/4 X 38 3/4 5 5/8 7 5/8 66 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3
NATIONALLY	REGIONALLY	NATIONALLY	REGIONALLY		
4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES
2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK
X	X	X	X	X	X
1987	1987	1987	1987	1995	1995
MILLIONS		MILLIONS		MILLIONS	
800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING
X	X	X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	OWENS CORNING	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME	SUPREME 30 30 YEAR TRADITIONAL	SUPREME 30 AR 30 YEAR TRADITIONAL	SUPREME 25 YR. TRADITIONAL
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC .8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC .6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 29 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 26 5 7 80 3	12 X 26 5 7 80 3	12 X 36 5 7 80 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	NO	NO
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES 2:12 2 NO.-15 FELTS & WEATHERLOCK	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES 2:12 2 NO.-15 FELTS & WEATHERLOCK	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES 2:12 2 NO.-15 FELTS & WEATHERLOCK
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1998	1998	1978
11. NUMBER OF SQUARES INSTALLED			MILLIONS
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/GET-PINK	800/GET-PINK	800/GET-PINK
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/ROOFING	800/ROOFING	800/ROOFING
14. SEE APPENDIX IF CHECKED			X

NA=not applicable

# Asphalt Shingles Part 1

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
SUPREME AR 25 YR. TRADITIONAL	SUPREME (METRIC) 25 YR. TRADITIONAL	CLASSIC 20 YR. TRADITIONAL	CLASSIC AR 20 YR. TRADITIONAL	CLASSIC (METRIC) 20 YR. TRADITIONAL	GLASLOCK 25 YR. INTERLOCKING
FIBERGLASS NONLAMINATED CERAMIC 9 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 29 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL
X	X	X	X	X	X
YES	YES	NO	YES	YES	YES
12 X 36 5 7 80 3	13 1/8 X 39 3/8 5 9/16 7 9/16 66 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	13 1/8 X 39 3/8 5 9/16 7 9/16 66 3	21 1/16 X 21 9/16 96 3
NO	REGIONALLY	NO	NO	REGIONALLY	NO
4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES
2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	4:12 2 NO.-15 FELTS & WEATHERLOCK
X	X	X	X	X	X
1986	1986	1959	1986	1987	1977
	MILLIONS	MILLIONS		MILLIONS	MILLIONS
800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING
X	X	X	X	X	X



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	MONARCH	PREMIER 25 ALGAE BLOCK	PREMIER 30 ALGAE BLOCK
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC .5 REGIONAL	FIBERGLASS LAMINATED CERAMIC .6 REGIONAL	FIBERGLASS LAMINATED CERAMIC .6 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)			
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 245	13 1/4 X 40 5 5/8 7 5/8 64 4 260	13 1/4 X 40 5 5/8 7 5/8 64 4
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT  2:12 2 15-LB. FELTS	4:12 15-LB. FELT  2:12 2 15-LB. FELTS	4:12 15-LB. FELT  2:12 2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1996	1995	1997
11. NUMBER OF SQUARES INSTALLED	500,000	500,000	500,000
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	100	100	100
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
PABCO PREMIER 25 YEAR	PABCO PREMIER 30 YEAR	PABCO PREMIER 40 YEAR	PABCO SG-25	PABCO GG-20	ORGANIC-25 SEAL-DOWN
FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 12 REGIONAL
X	X	X	X	X	X
NO	NO	NO	NO	NO	YES
13 1/4 X 40 5 5/8 7 5/8 64 4 256/260	13 1/4 X 40 5 5/8 7 5/8 64 4 290	13 1/4 X 40 5 5/8 7 5/8 64 4 320	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 236	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 210	12 X 36 5 2 80 3
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 NO.-15 FELT
2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
X X X	X X X	X X X	X X X	X X X	X
1991	1991	1991	1984	1984	1946
5 MILLION	1 MILLION	1 MILLION	5 MILLION	5 MILLION	
100 NO	100 NO	100 NO	100	100	>6,000 NO
R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/858-5453	DISTRICT OFFICE  TECHNICAL SERVICE 417/624-6644

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	GLASS-SEAL	GLASS-SEAL AR	ELITE GLASS SEAL
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC .14 REGIONAL	FIBERGLASS NONLAMINATED COPPER/CERAMIC .6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC .10 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 80 3	12 X 36 5 2 80 3	12 X 36 5 2 80 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	NO	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1979	1983	1984
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	>6,000 NO	>2,000 NO	>6,000 NO
13A. FOR SALES INFORMATION, CONTACT:	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
ELITE GLASS SEAL AR	TAM-LOC GLASS	HERITAGE 25	HERITAGE 25 AR	HERITAGE 30	HERITAGE 30 AR
FIBERGLASS NONLAMINATED COPPER/CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL	FIBERGLASS LAMINATED COPPER/CERAMIC 4 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL	FIBERGLASS LAMINATED COPPER/CERAMIC 7 REGIONAL
X	X	X	X	X	X
YES	YES	NO	YES	NO	YES
12 X 36 5 2 80 3	21 X 21 1/2 99 3	12 X 36 15/16 5 2 78 3	12 X 36 15/16 5 2 78 3	12 X 36 5 2 80 4	12 X 36 5 2 80 4
NO	REGIONALLY	REGIONALLY	NO	REGIONALLY	NO
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL		2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
X	X	X	X	X	X
1985	1984	1985	1992	1989	1992
>2,000 NO	>3,000 NO	>6,000 NO	>2,000 NO	>6,000 NO	>2,000 NO
DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	HERITAGE 40	HERITAGE 40 AR	HERITAGE M25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 4 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 60 4	12 X 36 5 2 60 4	38 3/4 X 13 1/4 5 5/8 2 1/4 66 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	4:12 NO.-15 FELT  2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1992	1988	1995
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	3,000	3,000	
13A. FOR SALES INFORMATION, CONTACT:	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
HERITAGE M30	HERITAGE M40	RELIANCE 25	RELIANCE 30
FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 12 REGIONAL	ORGANIC NONLAMINATED CERAMIC 12 REGIONAL
X	X	X	X
YES	YES	YES	YES
39 3/8 X 13 1/4 5 5/8 2 1/4 64 4	39 3/8 X 13 1/4 5 5/8 2 1/4 64 4	12 X 36 5 2 80 3	12 X 36 5 2 80 3
REGIONALLY	REGIONALLY		
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
X	X	X	X
1995	1995	1998	1998
		>6,000 NO	>6,000 NO
DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICE 800/641-4691	DISTRICT OFFICE TECHNICAL SERVICE 800/641-4691

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	PINNACLE 40	PINNACLE 30
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no, NA)	YES	NO
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	STORMMASTER LM SBS MODIFIED	STORMMASTER ST SBS MODIFIED
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no, NA)	YES	NO
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
GLASSMASTER 25	GLASSMASTER 25 ALPINE	GLASSMASTER 25 MATTERHORN	GLASSMASTER 20	GLASSMASTER T-LOK	WEATHERMASTER ST
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES
X	X	X	X	X	X
NA	X	X	X	X	X
X	NA	NA	NA	NA	NA
YES	NO	NO	NO	NO	NA

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BIRD	BIRD	BIRD
WEATHERMASTER T-LOK	CHALET	LEGEND	WOODSCAPE 40	WOODSCAPE 30	WOODSCAPE 25
ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
X	NA	NA	NA	NA	NA
NA	X	X	X	X	X
NA	YES	NO	YES	YES	YES



# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	BIRD	BIRD
2. PRODUCT NAME	SEAL KING 30	WIND SEAL 20
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)	NA	NO
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	BIRD	BIRD
2. PRODUCT NAME	SEAL KING 25	JET 25
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

## Asphalt Shingles Part 2

BIRD	BPCO	BPCO	BPCO	BPCO	BPCO
MASTER BILT 25	SUPER ECLIPSE	ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK
ORGANIC	ORGANIC	ORGANIC	ORGANIC	ORGANIC	ORGANIC
CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA

BPCO	BPCO	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
RAMPART	CITADEL	FRS AMBASSADOR SHAKE	FRS PRESIDENTIAL SHAKE	PRESIDENTIAL SHAKE	FRS DIMENSIONAL /30 SHAKE
ORGANIC	ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
X	X	NA	NA	NA	NA
NA	NA	X	X	X	X
NA	NA	YES	YES	YES	YES
		X	X	X	X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	FRS DIMENSIONAL /40 SHAKE SHINGLE FIBERGLASS	DIMENSIONAL /40 SHAKE SHINGLE FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED	X	

1. COMPANY NAME	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	DIMENSIONAL /30 SHAKE FIBERGLASS	STANDARD STRIP/20 FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	NO
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION
FRS DIMENSIONAL /25 SHAKE FIBERGLASS	DIMENSIONAL /25 SHAKE FIBERGLASS	STORM KING/25 FIBERGLASS	GRAND MANOR SHANGLE FIBERGLASS	CARRIAGE HOUSE SHANGLE FIBERGLASS	HATTERAS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
NO	NO	YES	YES	YES	YES
X	X	X	X	X	X

CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION
HALLMARK SHANGLE ORGANIC	INDEPENDENCE SHANGLE FIBERGLASS	LANDMARK 40 FIBERGLASS	LANDMARK 30 FIBERGLASS	LANDMARK 25 FIBERGLASS	CERTAINEED XT25 FIBERGLASS
CLASS C NO	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
NA	X	X	X	X	X
X	NA	NA	NA	NA	NA
NA	X	X	X	X	X
NA	YES	YES	YES	YES	YES
X	X	X	X	X	X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	CERTAINEED CORPORATION	CERTAINEED CORPORATION
2. PRODUCT NAME	CLASSIC HORIZON SHANGLE	NEW HORIZON SHANGLE
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	CERTAINEED CORPORATION	CERTAINEED CORPORATION
2. PRODUCT NAME	FUNGUSBUSTER 25	SEALDON 25
FELT MATERIAL	FIBERGLASS	ORGANIC
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS C
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	X
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	NA
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	NA
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
HIGHLANDS-AR SHANGLE	HEARTHSTEAD	CUSTOM SEALDON 30	CERTAINTEED XT30	CERTAINTEED 20	SOLID SLAB
FIBERGLASS	ORGANIC	ORGANIC	FIBERGLASS	FIBERGLASS	ORGANIC
CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS C YES
X	X	X	X	X	X
NA			NA	NA	
	X	X			X
	NA	NA			NA
X			X	X	
YES	NA	NA	YES	YES	NA
X	X	X	X	X	X

CERTAINTEED CORPORATION	ELK	ELK	ELK	ELK	GAF MATERIALS CORPORATION
CUSTOM LOK 25	PRESTIQUE PLUS HIGH DEFINITION	PRESTIQUE I HIGH DEFINITION	PRESTIQUE II RAISED PROFILE	CAPSTONE	DUBL-COVERAGE TITE-ON
ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
	NA	NA	NA	NA	NA
X					
NA					
	X	X	X	X	X
NA	YES	YES	YES	YES	NO
X	X	X	X		X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	GRAND SEQUOIA	MARQUIS
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	ROYAL SOVEREIGN	SENTINEL
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)	YES	NO
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GEORGIA-PACIFIC
SLATELINE	ORIGINAL TIMBERLINE	TIMBERLINE COUNTRY MANSION	TIMBERLINE ULTRA	TIMBERLINE 25	ASPHALT 20
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	NO	YES	YES	NO	NO
X	X	X	X	X	

GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC
PREMIUM 25	SUMMIT	SUMMIT III	T-LOCK 20	TOUGH-GLASS	TOUGH-GLASS PLUS
ORGANIC	FIBERGLASS	FIBERGLASS	ORGANIC	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
X	NA	NA	X	NA	NA
NA	X	X	NA	X	X
NA	NO	YES	NA	NO	NO



# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	TOUGH-GLASS T-LOCK	CASCADE 25
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)		X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		X
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NO	
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	COPPER MOUNTAIN SHADOW	FRENCH ESTATE
FELT MATERIAL	ORGANIC	ORGANIC
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS C	CLASS C
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style	X	X
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		NA
5. SEE APPENDIX IF CHECKED		

NA=not applicable

## Asphalt Shingles Part 2

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
FRENCH ROYALE	GLOBE 25	GLOBE 30	KLIP-LOK	PREMIER SHADOW	PREMIER SHAKE 25
ORGANIC	FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC	ORGANIC
CLASS C YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
NA	X	X	NA	NA	NA
NA			NA	NA	NA

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GS ROOFING PRODUCTS CO.
PROSEAL 30	PROSEAL 30 RX	SUPER SEAL	SUPER SEAL RX	WINDLOCK	ARCHITECT 80/ ESTATE
ORGANIC	ORGANIC	ORGANIC	ORGANIC	ORGANIC	FIBERGLASS
CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
NA	X	NA	X	NA	X
NA		NA		NA	YES
					X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
2. PRODUCT NAME	FIRE-HALT	FIRESCREEN
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	NO	NO
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
2. PRODUCT NAME	FIRESCREEN PLUS 2000	HIGH SIERRA
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

GS ROOFING PRODUCTS CO.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
ULTIMATE 30	ARISTROCAT 25	ARMOUR LOCK	ARMOUR PLUS 20	CAMBRIDGE ULTRA SHADOW	CASCADIA 30
	ORGANIC	ORGANIC	ORGANIC	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA				NA	NA
	X	X	X		
X	NA	NA	NA	X	X
YES	NA	NA	NA	YES	YES
X					

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
CATHEDRAL	CHATEAU ULTRA SHADOW	CROWNE 30	DYNASTY	IMPERIAL GENTRY	IMPERIAL GLASS/20
FIBERGLASS	ORGANIC	ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA			NA	NA	NA
	X	X			
X	NA	NA	X	X	X
YES	NA	NA	YES	YES	YES

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	IMPERIAL SEAL/20	NEW ENGLANDER 25
FELT MATERIAL	ORGANIC	ORGANIC
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS C	CLASS C
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	X	X
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	NA	NA
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	NA	NA
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	RENAISSANCE XL	ROYAL VICTORIAN
FELT MATERIAL	ORGANIC	ORGANIC
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS C	CLASS C
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	X	X
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	NA	NA
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	NA	NA
5. SEE APPENDIX IF CHECKED		

NA=not applicable

## Asphalt Shingles Part 2

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY
SKYLINE 25	STORMTITE 25	ULTRA LOCK 25	#202 DURA-SEAL	#204 DURA-SEAL	#230 ALASKAN SBS MODIFIED
ORGANIC	FIBERGLASS	ORGANIC	FIBERGLASS	FIBERGLASS	POLYGLASS
CLASS C YES	CLASS A YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
	NA		NA	NA	NA
X		X			
NA	X	NA	X	X	X
NA	YES	NA	YES	YES	YES

MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	OWENS CORNING	OWENS CORNING
#240 HURRICANE SBS MODIFIED ALGAE RESISTANT POLYGLASS	#271 HIGHLANDER-25	#272 LEGACY-30 SBS MODIFIED	#272 LEGACY-30 SBS MODIFIED ALGAE RESISTANT	OAKRIDGE 40 DEEP SHADOW ARCHITECTURAL FIBERGLASS	OAKRIDGE 40 AR DEEP SHADOW ARCHITECTURAL FIBERGLASS
CLASS A YES	CLASS A	CLASS A	CLASS A	CLASS A YES	CLASS A YES
X				X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
				X	X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME  FELT MATERIAL	OAKRIDGE 30 SHADOW ARCHITECTURAL FIBERGLASS	OAKRIDGE 30 AR SHADOW ARCHITECTURAL FIBERGLASS
3. FIRE/WIND RATINGS A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C) B. WIND RATING PER UL STANDARD 997 (yes/no)	CLASS A YES	CLASS A YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME  FELT MATERIAL	OAKRIDGE 25  ARCHITECTURAL FIBERGLASS	OAKRIDGE 25 AR  ARCHITECTURAL FIBERGLASS
3. FIRE/WIND RATINGS A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C) B. WIND RATING PER UL STANDARD 997 (yes/no)	CLASS A YES	CLASS A YES
4. COMPLIES WITH:		
A. ASTM D3161-95a <i>STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES</i> (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) <i>STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES</i> (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 <i>STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES</i> (yes, no)		
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

## Asphalt Shingles Part 2

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
PROMINENCE 30 YR ARCHITECTURAL FIBERGLASS	PROMINENCE AR 30 YR ARCHITECTURAL FIBERGLASS	SUPREME 30 30 YR TRADITIONAL FIBERGLASS	SUPREME 30 AR 30 YR TRADITIONAL FIBERGLASS	SUPREME 25 YR TRADITIONAL FIBERGLASS	SUPREME AR 25 YR TRADITIONAL FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
X	X	X	X	X	X

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	PABCO ROOFING PRODUCTS
SUPREME (METRIC) 25 YR TRADITIONAL FIBERGLASS	CLASSIC 20 YR TRADITIONAL FIBERGLASS	CLASSIC AR 20 YR TRADITIONAL FIBERGLASS	CLASSIC (METRIC) 20 YR TRADITIONAL FIBERGLASS	GLASLOCK 25 YR INTERLOCKING FIBERGLASS	MONARCH  FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	NO	NO	NO	YES	YES
X	X	X	X	X	



# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	PREMIER 25 ALGAE BLOCK	PREMIER 30 ALGAE BLOCK
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)	YES	YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	PABCO PREMIER 25 YEAR	PABCO PREMIER 30 YEAR
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no)		YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

## Asphalt Shingles Part 2

PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
PABCO PREMIER 40 YEAR	PABCO SG-25	PABCO GG-20	ORGANIC-25 SEAL-DOWN	GLASS-SEAL	GLASS-SEAL AR
FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA		NA	NA
			X		
X	X	X	NA	X	X
YES	YES				

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
ELITE GLASS-SEAL	ELITE GLASS SEAL AR	TAM-LOC GLASS	HERITAGE 25	HERITAGE 25 AR	HERITAGE 30
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	YES	YES			

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	HERITAGE 30 AR	HERITAGE 40
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	HERITAGE 40 AR	HERITAGE M25
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	
5. SEE APPENDIX IF CHECKED		

NA=not applicable

## Asphalt Shingles Part 2

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
HERITAGE M30	HERITAGE M40	RELIANCE 25	RELIANCE 30
FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC
CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES
X	X	X	X
NA	NA		
		X	X
		NA	NA
X	X		
	YES	NA	NA

# ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	Atlas Roofing Corporation	BPCO, a division of Emco Limited	The Celotex Corporation
2. Title, original publication date, and identifying symbol, if any	"Limited Warranty Shingles and Roll Roofing Products"; June 1997	BPCO "Five-Star Shingle Warranty"; RW-Jan. 96	"Dimensional Shake and 3 Tab Shingles Limited Warranty"; May 1, 1997; Form No. 1824-1192 Rev. E
3. Products covered	StormMaster LM, StormMaster ST, Pinnacle 40, Pinnacle 30, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn, GlassMaster 20, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK and MOD 90 MSR	Eclipse, Eclipse H/R, Tradition, Roofmaster Classic, Roofmaster, Rampart, Tite-Lok, Esgard Pro Standard, Citadel, Tite-On, Lo/Slope	Dimensional/40, Dimensional/30, Dimensional/25, Storm King/25, Standard Strip/20, Sol Seal 20
4. Scope of coverage	Atlas warrants the roofing products are free from manufacturing defects, which would reduce the usable life of the product. Atlas warrants that its algae resistant shingles (i.e., StormMaster, Pinnacle 40, Pinnacle 30, GlassMaster 25, WeatherMaster ST, Chalet and Legend) will remain free of obvious and unsightly discoloration due to algae growth.	BPCO warrants that the shingles are free from manufacturing defects that result in water leakage.	Celotex warrants that its residential asphalt shingles will remain free from manufacturing defects and that those shingles designated as Fungus/Algae Resistant Shingles will remain free from fungus and algae growth which adversely affect overall appearance.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that would reduce the usable life of the shingles and algae resistance.	Yes; warranty only covers leakage due to manufacturing defects.	No; warranty covers manufacturing defects and fungus/algae resistant shingles (FRS) will remain free from fungus and algae growth which adversely affect overall appearance.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	<b>For Manufacturing Defects:</b> 40 years: StormMaster LM, Pinnacle 40 30 years: StormMaster ST, Pinnacle 30 25 years: GlassMaster 25, GlassMaster 25 Alpine, GlassMaster Matterhorn, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster T-LOK 20 years: GlassMaster 20, WeatherMaster 20 10 years: MOD 90 MSR <b>For Algae Resistance:</b> 10 years <b>For Wind Coverage:</b> 5 years	30 years: Eclipse, Eclipse H/R, Tradition 25 years: Roofmaster Classic, Roofmaster, Rampart, Tite-Lok, Esgard Pro Standard 20 years: Citadel, Tite-On 12 years: Lo/Slope  *Warranty period for Eclipse H/R corresponds to the warranty of the Super Eclipse or Eclipse shingles installed on the rest of the roof. When sold separately, a 30-year warranty applies.	<b>For Manufacturing Defects</b> 40 years: Dimensional/40 30 years: Dimensional/30 25 years: Dimensional/25, Storm King/25 20 years: Standard Strip/20, Sol Seal/20  <b>For Algae Resistance</b> 15 years: Presidential Shake FRS, Dimensional/40 FRS, Dimensional/30 FRS 10 years: Storm King/25 Shingles FRS, Dimensional/25 FRS, Standard Strip/20 FRS (See Item No. 15 - Transferability)
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five yrs.: StormMaster LM, Pinnacle 40, Pinnacle 30 After three yrs.: StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn, GlassMaster 20, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK After one year: MOD 90 MSR	After five years: Eclipse, Eclipse H/R, Tradition, Roofmaster Classic, Roofmaster, Rampart, Tite-LOK, Esgard Pro Standard, Citadel, Tite-On  After three years: Lo/Slope	After one year
5c. What is the prorating formula?	StormMaster LM, Pinnacle 40: After initial five years, warranty is reduced by 1/480 for each month since original application (so that at the beginning of the sixth year, warranty would be reduced by 60/480). Pinnacle 30: After initial five years, warranty is reduced by 1/360 for each month since original application (so that at the beginning of the sixth year, warranty would be reduced by 60/360). StormMaster ST, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn: After initial three years, warranty is reduced by 1/360 for each month since original application (so that at the beginning of the fourth year, warranty would be reduced by 36/360). GlassMaster 25, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster T-LOK: After initial three years, warranty is reduced by 1/300 for each month since original application (so that at the beginning of the fourth year, warranty would be reduced by 36/300). Glass Master 20, WeatherMaster 20: After initial three years, warranty is reduced by 1/240 for each month since original application (so that at the beginning of the fourth year, warranty would be reduced by 36/240). MOD 90 MSR: After first year, warranty is reduced by 1/120 for each month since original application (so that at the beginning of the second year, warranty would be reduced by 12/120).	<b>Eclipse, Tradition:</b> 16.67% reduction in the sixth year; 3.33% additional annual reduction each year thereafter. <b>Roofmaster Classic, Roofmaster, Rampart, Tite-Lok, Esgard Pro Standard:</b> 20% reduction in the sixth year; 4% additional annual reduction each year thereafter. <b>Citadel, Tite-On:</b> 25% reduction in the sixth year; 5% additional annual reduction each year thereafter. <b>Lo/Slope:</b> 25% reduction in the fourth year; 8.33% additional annual reduction each year thereafter.	<b>For Manufacturing Defects</b> <b>Dimensional/40:</b> After one (1) year, warranty is reduced by 1/480 for each month of use received. <b>Dimensional/30:</b> After one (1) year, warranty is reduced by 1/360 for each month of use received. <b>Dimensional/25, Storm King/25:</b> After one (1) year, warranty is reduced by 1/300 for each month of use received. <b>Standard Strip/20, Sol Seal/20:</b> After one (1) year, warranty is reduced by 1/240 for each month of use received.  <b>For Algae Resistance</b> <b>Dimensional/40 FRS, Dimensional/30 FRS:</b> Warranty is reduced 1/180 for each month of use. <b>Dimension/25 FRS, Standard Strip/20 FRS, Storm King/25 FRS:</b> Warranty is reduced by 1/120 for each month of use.
6. Nature of Remedy	Atlas is liable for cost to repair or replace defectively manufactured shingles. For algae resistant shingles, Atlas' sole and only liability shall be to pay the reasonable cost of repair or replacement subject to pro-rating. During the initial five, three, or one year period (depending upon the type of shingle), the maximum repair or replacement cost to Atlas shall be the replacement cost of those shingles exhibiting discoloration due to algae, including replacement installation costs. For the remainder of the warranty, the maximum repair or replacement cost to Atlas shall be the replacement cost of those shingles exhibiting discoloration, in proportion to the unexpired warranty period, excluding all installation costs	BPCO will, at its option, repair or replace at its own expense defective shingles or pay the repair or replacement cost of the defective shingles, according to BPCO's reasonable estimate at the time of the claim.	During the first year, Celotex will repair or replace defective shingles, including labor to install the shingles, excluding costs to tear-off or dispose of defective shingles, flashings, metal or related work. For the balance of the warranty, Celotex will pay the pro-rated repair or replacement cost, excluding costs to tear-off or dispose of defective shingles. For algae resistance, Celotex will pay the pro-rated cost to repair or replace defective FRS shingles. Celotex reserves the right to clean the algae/fungus from the shingles rather than to repair or replace them.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	For the first five years for StormMaster LM, Pinnacle 40 and Pinnacle 30, for the first three years for StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn, GlassMaster 20, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T-LOK, and for the first year for MOD 90 MSR, warranty covers replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, replacement installation costs are excluded.	Yes	Yes
6c. Does the warranty provide for labor to remove	For the first five years for StormMaster LM, Pinnacle 40 and Pinnacle 30, for the first	Yes	No

defective shingles?	three years for StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 30 Matterhorn, GlassMaster 20, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T-LOK, and for the first year for MOD 90 MSR, warranty covers product plus replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, tear-off and replacement installation costs are excluded.		
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	No
7. Is there a monetary limitation?	For the first five years for StormMaster LM, Pinnacle 40 and Pinnacle 30, for the first three years for StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn, GlassMaster 20, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T-LOK, and for the first year for MOD 90 MSR, the maximum repair or replacement cost to Atlas shall not exceed the replacement cost to the Owner for the product, plus replacement application cost, exclusive of metal work, flashing or other costs. For the balance of the warranty, Atlas' liability excludes any cost for tear-off or replacement installation of new product and is pro-rated.	BPCO will pay the repair or replacement cost of the defective shingles, according to BPCO's reasonable estimate at the time of the claim, reduced proportionally to the number of years elapsed since the completion date of installation of the BPCO shingles.	During the first year, Celotex's liability is limited to the original cost of the shingles and Celotex's liability for labor to install shingles is not to exceed the original labor cost. For the balance of the warranty, the reasonable roofing repair or replacement cost is not to exceed the original cost of shingles and labor.
8. Specific Exclusions from Coverage(See Warranty Introduction for codes.)	1, 2, 4, 8, 13, 19, 24, 27	1, 2, 3, 4, 5, 6, 8, 9, 10, 19, 23, 25, 26	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 19, 20, 21, 23, 24
9. Wind Coverage/Exclusion	Atlas warrants that its StormMaster LM and StormMaster ST shingles will resist damage by wind gusts up to a maximum of 102 mph for the first five years after installation. Atlas warrants that its Pinnacle 40, Pinnacle 30, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Matterhorn, GlassMaster T-LOK, Chalet, Legend, WeatherMaster ST, and WeatherMaster T-LOK shingles will resist damage by wind gusts up to a maximum of 60 mph for the first five years after installation. Atlas warrants that its GlassMaster 20 and WeatherMaster 20 shingles will resist damage by wind gusts up to a maximum of 54 mph for the first five years after installation. If, during this five year period, damage occurs to the shingles as a result of wind gusts less than the warranted speed, Atlas will furnish at no charge, replacement shingles for the damaged shingles only, but no replacement labor. Shingles installed under conditions which temporarily or permanently preclude activation of the sealant must be hand sealed at the time of installation. In the event the shingles fail to self-seal after proper installation and climatic exposure, Atlas' sole responsibility shall be to pay a reasonable cost to hand seal the affected shingles. In order to activate the sealant feature, the shingles must be exposed to warm sunlight for a continued period of time.	BPCO indicates that the warranty covers roof damage resulting from wind speeds up to 54 mph. The warranty states that it excludes damage to shingles caused by gales. (The Beaufort Scale defines a gale, or fresh gale, as winds between 39-46 mph; a strong gale as winds between 47-54 mph; and a storm, or whole gale, as winds between 55-63 mph).	During the first five years, Celotex warrants that its shingles will resist wind blow-off damage due to wind velocities, including gusts, up to a maximum of 60 mph. Celotex will be liable only for the reasonable cost of replacing blown-off or wind damaged shingles and manually sealing any remaining unsealed shingles. Celotex reserves the right to repair or replace only those shingles affected. All self-sealing shingles must be subjected to warm sunlight for several days before full thermal bonding can occur. Shingles installed in fall or winter may not seal until the following spring. Failure to seal under these circumstances is not a manufacturing defect and Celotex will not be responsible for wind damage until such thermal bonding has occurred.
10. Notification Requirements	Any claim made must be in writing and mailed along with the proof of purchase to Atlas Roofing Corporation, Attn: Consumer Services, 2564 Valley Road, Meridian, MS 39307, within five days after discovery of the alleged defect.	All claims must be made in writing as soon as possible and in no event more than 30 days after discovery. Claims may be delivered by hand, transmitted by fax or sent by registered mail to BPCO, (in Eastern Canada and USA): 9510 St-Patrick, LaSalle (Quebec), Canada, H8R 1R9, Fax No. (514) 364-0130; or (in Western Canada): 3703-101 Avenue N.E., P.O. Box 576, Edmonton, Alberta T5J 2K8, Fax No. (403) 465-1181, Attention: Quality Manager. All claims must include a copy of the invoice or contract establishing the date of installation along with warranty claim form.	Warranty claims must be sent in writing to The Celotex Corporation, Director of Quality Assurance, 1327 Erie Street, Birmingham, Alabama 35224, within 30 days of the occurrence of the defect. All warranty claims must include copies of the warranty and invoice or contract showing the date of shingle installation and the installed cost. Celotex may require the owner to submit, at his own expense, sample shingles for testing and/or photographs.
11. Determination of Warranty Applicability	Within 45 days from receipt of notice, Atlas will investigate claim, or at its option, designate in writing another party including the owner to procure samples and forward them to Atlas.	BPCO's option to repair or replace defective shingles.	Neutral (no provision).
12. Does the issuing entity manufacture and/or sell the shingles?	Atlas manufactures and sells the shingles.	BPCO manufactures and sells the shingles.	Celotex manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E	A, B, C, E	C, E Warranty also states that warranty will be void if information submitted on warranty information form is erroneous.
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty may be transferred by original purchaser to new buyers of the building only when title to the real estate is transferred.	Warranty is transferable.	For Dimensional/40 and Dimensional/30, warranty may be transferred by the original owner to the subsequent property owner under certain conditions. Transfer must be requested in writing by new owner within 30 days of real estate title transfer and must include copies of the deed, Celotex warranty and a check or money order. The transfer fee is \$150.00, plus \$3.00 per square. Send transfer request to The Celotex Corporation, Residential Roofing Product Manager, 4010 Bay Scout Blvd., Tampa, FL 33607. If transfer occurs during the first year, the normal first year remedy will apply. Upon transfer, the new limited warranty term will be ten years from date of original application. If a transfer occurs during years 1 through 5, the new limited warranty term will be ten years from the date of original application. If a transfer occurs during years 6 or 7, the new limited warranty term will be seven years from date of original application.
16. Cost to Obtain	None	None	None
17. Is the warranty backed by insurance coverage?	No	No	No
18. Is the warranty an additional or exclusive remedy for the owner?	Warranty is owner's sole and exclusive remedy. Atlas makes no representation or warranty of any kind other than as set forth in the limited warranty. Atlas' liability is limited to the provisions of the warranty, whether any claim against it is based upon strict liability, negligence, breach of warranty or any other theory or cause of action. No person is authorized to alter the warranty either orally or in writing.	There are no other express warranties of BPCO, whether oral or written, and BPCO is not responsible or liable for any promises, representations, commitments or agreements made by employees, agents or representatives of BPCO which are not in accordance with BPCO warranty.	Warranty is exclusive and replaces all other warranties, whether express or implied. Warranty is owner's exclusive warranty from Celotex and represents the sole remedy available to any owner of Celotex shingles. Celotex makes no other representation or warranty of any kind.
19. Special Features/Conditions	Repairs made prior to or during the period of Atlas' investigation of a claim without Atlas' prior written approval shall be at owner's expense.	Because color variations exist between shingles manufactured at different times and because BPCO may discontinue or modify color, BPCO reserves the right to replace defective shingles with shingles of the nearest color. BPCO will not be responsible for differences in color between replacement shingles and others not replaced, if those differences are caused by weathering.	Warranty may not be changed or modified. No one, including any representative or employee of Celotex, has authority to assume any additional liability or responsibility.
20. Executed by Owner?	No	Yes (See Item No. 19.)	Yes; warranty also executed by roofing contractor.
1. Identity of issuing entity	The Celotex Corporation	Elk Corporation	Elk Corporation of Alabama

## ASPHALT SHINGLE WARRANTIES

2.	Title, original publication date, and identifying symbol, if any	"Ambassador Shake and Presidential Shake Shingles Limited Warranty"; April 1, 1997; Form #1899-0497	Elk Limited Warranty Prestique Asphalt Shingles; February 1, 1993	Elk Capstone Roofing Products Warranty																														
3.	Products covered	Ambassador Shake Shingles, Presidential Shake Shingles	Prestique Plus, Prestique Plus with StainGuard, Prestique I, Prestique I with StainGuard, Prestique II, Prestique II with StainGuard	Capstone Roofing Products																														
4.	Scope of coverage	Provided shingles have been applied according to Celotex's written instructions, Celotex warrants that its Ambassador Shake and Presidential Shake shingles will remain free from manufacturing defects. Celotex also warrants that those shingles designated as Fungus/Algae Resistant Shingles will remain free from algae and fungus growth which adversely affect overall appearance.	Elk warrants that the Prestique shingles are free from manufacturing defects in material or manufacturing workmanship that would adversely affect performance and, when manufactured with StainGuard treatment, will inhibit the discoloration of roofing granules caused by growth of the blue-green algae, Gloeocapsa, which may adversely affect the appearance of the roofs.	Elk warrants that the Capstone roofing products will be free from manufacturing defects in materials and manufacturing workmanship that would adversely affect performance; is Class A fire rated by Underwriter's Laboratories when installed per Elk's printed installation instructions; and, when manufactured with StainGuard treatment, will inhibit the discoloration of roofing granules caused by growth of the blue-green algae, Gloeocapsa, which may adversely affect the appearance of roofs.																														
a.	Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes																														
4b.	Does the warranty provide coverage for defects in application?	No	No	No																														
4c.	Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects and fungus/algae resistant shingles (FRS) will remain free from algae and fungus growth which adversely affect overall appearance.	No; warranty covers manufacturing defects and, in some cases, algae resistance.	No; warranty covers manufacturing defects, Class A fire rating, and algae resistance.																														
4d.	Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No																														
5.	Length of Coverage	<u>For Manufacturing Defects</u> Lifetime: Ambassador Shake FRS for original individual homeowner as long as the original owner retains ownership of the property on which the shingles were applied.  40 years: Presidential Shake FRS, Presidential Shake, Ambassador Shake FRS for original group owner, institutional owner, non-residences or transfer within the first ten years.  <u>For Algae Resistance</u> 15 years: Ambassador Shake FRS, Presidential Shake FRS (See Item No. 15 - Transferability).	<u>For Manufacturing Defects</u> 40 years: Prestique Plus, Prestique Plus with Stain Guard 30 years: Prestique I, Prestique I with Stain Guard 25 years: Prestique II, Prestique II with Stain Guard  <u>For Algae Resistance</u> five years	For manufacturing defects and Class A fire rating: 30 years For algae resistance: five years																														
5a.	Is the warranty prorated?	Yes	Yes	Yes																														
5b.	When does prorating begin?	After 10 years for Ambassador Shake. After 5 years for Presidential Shake.	After one year	After ten years for manufacturing defects																														
5c.	What is the prorating formula?	After 10 years, Ambassador Shake warranty is reduced in accordance with the following schedule: <table><thead><tr><th>Year of Service</th><th>Prorated Percentage</th></tr></thead><tbody><tr><td>11-12</td><td>85%</td></tr><tr><td>13-14</td><td>80%</td></tr><tr><td>15-16</td><td>75%</td></tr><tr><td>17-18</td><td>70%</td></tr><tr><td>19-20</td><td>65%</td></tr><tr><td>21-22</td><td>60%</td></tr><tr><td>23-24</td><td>55%</td></tr><tr><td>25-26</td><td>50%</td></tr><tr><td>27-28</td><td>45%</td></tr><tr><td>29-30</td><td>40%</td></tr><tr><td>31-32</td><td>35%</td></tr><tr><td>33-34</td><td>30%</td></tr><tr><td>35-40</td><td>25%</td></tr><tr><td>41-Lifetime</td><td>20%</td></tr></tbody></table> After 5 years, Presidential Shake warranty is reduced by 1/480 per month.	Year of Service	Prorated Percentage	11-12	85%	13-14	80%	15-16	75%	17-18	70%	19-20	65%	21-22	60%	23-24	55%	25-26	50%	27-28	45%	29-30	40%	31-32	35%	33-34	30%	35-40	25%	41-Lifetime	20%	<b>Prestique Plus, Prestique Plus with StainGuard:</b> After one year, warranty is reduced by 1/480 for each month since original application. <b>Prestique I, Prestique I with StainGuard:</b> After one year, warranty is reduced by 1/360 for each month since original application. <b>Prestique II, Prestique II with StainGuard:</b> After one year, warranty is reduced by 1/300 for each month since original application.	After ten years, warranty is reduced by 1/360 for each month of service from date of installation (so that at the beginning of the eleventh year, warranty would be reduced by 120/360).
Year of Service	Prorated Percentage																																	
11-12	85%																																	
13-14	80%																																	
15-16	75%																																	
17-18	70%																																	
19-20	65%																																	
21-22	60%																																	
23-24	55%																																	
25-26	50%																																	
27-28	45%																																	
29-30	40%																																	
31-32	35%																																	
33-34	30%																																	
35-40	25%																																	
41-Lifetime	20%																																	
6.	Nature of Remedy	Celotex will repair or replace any shingles proven to be defective. Celotex will pay to replace FRS defective shingles based on the amount of use received; Celotex reserves the right to clean algae or fungus from the shingles rather than to repair or replace them.	Elk, at its sole discretion, shall either (1) pay the reasonable replacement cost of shingles and application labor, (2) provide replacement shingles only or pay the reasonable cost of replacement shingles of similar design, or (3) pay the reasonable cost for repair of the shingles. In the unlikely event the entire roof is found to be defective, Elk shall provide, or pay the reasonable replacement cost of, shingles and reasonable application labor to recover the roof. After the first year, the replacement cost which Elk will pay will be prorated. Application costs covered by warranty do not include costs for tear-off, dump fees, flashing, metal work, underlayment, or related work.	For the first ten years, Elk will elect, at Elk's sole option, whether to pay the reasonable cost of replacement shingles and the cost of labor to install replacement shingles or provide replacement product of similar design and/or color and cost of application labor to install replacement shingles. After ten years, Elk will elect, at Elk's sole option, whether to pay the reasonable prorated cost of replacement shingles, exclusive of the cost of application labor, or provide on a prorata basis replacement product of similar design and/or color. In either case, Elk will not refund or pay any costs for tear-off and disposal of shingles, accessory materials such as fasteners, flashings, vents, underlayment, or any similar costs.																														
6a.	Does the warranty provide for furnishing of replacement shingles?	Yes	YES	Yes																														
6b.	Does the warranty provide for labor to install replacement shingles?	Yes	YES	Yes, for the first ten years; no, for the balance of the warranty.																														
6c.	Does the warranty provide for labor to remove defective shingles?	For Ambassador Shakes: Yes, during the initial 10 year period; no for the balance of the warranty. For Presidential Shakes: Yes, during the initial 5 year period; no for the balance of the warranty.	NO	No																														
6d.	Does the warranty cover disposal of defective shingles?	For Ambassador Shakes: Yes, during the initial 10 year period; no for the balance of the warranty. For Presidential Shake Shingles: Yes, during the initial 5 year period; no for the balance of the warranty.	NO	No																														

6e. Does the warranty apply to any materials other than shingles?	No	NO	No
7. Is there a monetary limitation?	Celotex's maximum liability during the non prorated period will be equal to the reasonable cost as determined by Celotex to replace the defective shingles at current value. After the initial 10 year period for Ambassador Shake and 5 year period for Presidential Shake, Celotex's maximum contribution toward the cost of repairing or replacing defective shingles will be calculated by taking the reasonable cost of material required to replace the defective shingles at current value and multiplying that amount by the applicable prorata percentage. For FRS shingles, Celotex's liability not to exceed the original cost of shingles and labor as determined by Celotex.	During the first year, Elk shall pay the reasonable replacement cost of shingles and application labor or provide replacement shingles of similar design or pay the reasonable cost for repair of the shingles. After the first year, the replacement cost which Elk will pay will be reduced by the amount of usage received from the shingles.	Elk's liability is limited to reasonable cost of replacement. The amount of refund will be based on the replacement purchase price.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 19, 20, 21, 23, 24	1, 2, 3, 4, 8, 9, 10, 11, 13, 17, 19, 21. Warranty also excludes claims by subsequent owners or transferees and damage caused by decking nails or staples backing out and either perforating or pushing up the shingles.	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 19, 21, 24, 26. Warranty also excludes damage caused by wildlife and decking nails or staples backing out and either perforating or pushing up the shingle.
9. Wind Coverage/Exclusion	During the first five years, Celotex warrants that the shingles will resist wind blow-off damage due to wind velocities, including gusts, up to a maximum of 60 mph. Celotex will be liable only for the reasonable cost of replacing blown-off or wind-damaged shingles and manually sealing any remaining unsealed shingles. Celotex reserves the right to repair or replace only those shingles affected. All self-sealing shingles must be subjected to warm sunlight for several days before full thermal bonding can occur. Shingles installed in fall or winter may not seal until the following spring. Failure to seal under these circumstances is not a manufacturing defect and Celotex will not be responsible for wind damage until such thermal bonding has occurred.	During the first five years, Elk's Prestique shingles will be resistant to blow-offs in wind velocities up to 60 mph, provided the thermal sealant has properly activated. Elk's obligation is to pay the reasonable cost of replacing shingles that have blown-off and the reasonable cost of manually sealing any unsealed shingles which have had adequate exposure to heat. Warranty is conditioned upon application in accordance with Elk application instructions printed on the shingle wrapper. In order for sealing to occur, the shingles must be exposed to adequate heat from surface temperatures or sunlight. Failure of shingles to seal due to insufficient heat exposure is not a manufacturing defect.	During the first five years, Capstone roofing products will be resistant to blow-offs in wind velocities up to 60 mph provided the thermal sealing has properly occurred. Elk's obligation is to pay the reasonable cost of replacing shingles that have blown-off and the reasonable cost of manually sealing any unsealed shingles which have had adequate exposure to heat. Warranty is conditioned upon application in accordance with Elk application instructions printed on the shingle wrapper. In order for sealing to occur, the shingles must be exposed to adequate heat from surface temperatures or sunlight. Failure of shingles to seal due to insufficient heat exposure is not a manufacturing defect.
10. Notification Requirements	Warranty claims must be sent in writing to The Celotex Corporation, Director of Quality Services, 1327 Erie Street, Birmingham, AL 35244, within 30 days of the occurrence of the defect. All warranty claims must include copies of the warranty and invoice or contract showing the date of shingle installation and the installed cost. Celotex may require the owner to submit, at his own expense, sample shingles for testing and/or photographs.	Written notification of alleged defect with a copy of warranty card and proof of purchase of the shingles to Elk, 4600 15th Street, Tuscaloosa, AL 35401, or P.O. Box 500, Ennis, TX 75120-0500, within 30 days of discovery of a problem. The owner may be requested to submit samples of shingles and photographs.	Notification to Elk Corporation of Alabama, 4600 Stillman Blvd., Tuscaloosa, AL 35401, within 30 days after discovery of any alleged defect. Notice must describe defect, include the number of warranty certificate, proof of purchase and the date of installation. The owner may be required to provide samples of shingles and photographs.
11. Determination of Warranty Applicability	Celotex's determination.	Elk will make investigation, including roof top inspection by an Elk employee and laboratory testing of the suspect product. If the investigation reveals manufacturing defects covered by warranty, Elk will provide a settlement within a reasonable time.	Elk will make investigation, including roof top inspection by an Elk employee and laboratory testing of the suspect product. If the investigation reveals manufacturing defects covered by warranty, Elk will provide a settlement within a reasonable time.
12. Does the issuing entity manufacture and/or sell the shingles?	Celotex manufactures and sells the shingles.	Elk manufactures and sells the shingles.	Elk manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E. Warranty also states that warranty may be void if information submitted on warranty information form is erroneous.	C, E	A, C, E, G
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty may be transferred by the original homeowner to the subsequent property owner under certain conditions. Transfer must be requested in writing by new owner within 30 days of real estate title transfer and must include copies of the deed, Celotex warranty and a check or money order. Transfer fee is \$200, plus \$3.00 per square. No transfer for non-individual homeowner applications. If Presidential Shake warranty is transferred within the first 5 years, warranty will be in effect for an additional 10 years. If warranty is transferred in years 5-7, warranty will be in effect for an additional 7 years.	Warranty is not assignable or transferable under any circumstances.	Warranty is transferable. Successor purchaser or transferee must complete and return Transfer Notification Card within 30 days after transfer of the building to the transferee along with a \$50 transfer fee.
16. Cost to Obtain	None	None	None
17. Is the warranty backed by insurance coverage?	No	Elk indicates that it is self-insured.	Elk indicates that it is self-insured.
18. Is the warranty an additional or exclusive remedy for the owner?	Warranty is exclusive and replaces all other warranties, whether express or implied. Warranty is owner's exclusive warranty from Celotex and represents the sole remedy available to any owner of Celotex shingles. Celotex makes no other representation or warranty of any kind.	Warranty is the sole and exclusive remedy provided to the owner. Elk makes no representation or warranty of any kind, other than what is stated in the warranty. Elk shall not be liable based upon any theory of negligence, breach of warranty, strict liability, or any other theory.	Statements in the warranty constitute the only warranty extended by Elk.
19. Special Features/Conditions	HomeGuard protection (first 10 years for Ambassador and first 5 years for Presidential, including labor, not roof tear-off and disposal) does not apply when shingles are applied to an insulated roof deck system that is not properly ventilated between the insulation and the decking material to which the shingles are attached. Warranty may not be changed or modified. No one, including any representative or employee of Celotex, has authority to assume any additional liability or responsibility.		Yes; original homeowner and contractor must complete warranty registration form and return it to Elk, 14643 Dallas Parkway, Suite 1000, Dallas, TX 75240, within 30 days after the installation.
20. Executed by Owner?	Yes; warranty also executed by roofing contractor.	No	Yes; original homeowner and contractor must complete warranty registration form and return it to Elk, 14643 Dallas Parkway, Suite 1000, Dallas, TX 75240, within 30 days after the installation.

1. Identity of issuing entity	GAF Materials Corporation	GAF Materials Corporation	GAF Materials Corporation
2. Title, original publication date, and identifying symbol, if any	Stonehenge and Floridan Shingles, "Limited Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles"; January 1, 1996	Grand Sequoia Shingles, "Limited Warranty on Grand Sequoia Fiberglass Asphalt Shingles"; January 1, 1996	[Limited Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles]; January 1, 1995; 01294
	Stonehenge and Floridan Shingles	Grand Sequoia	Timberline Ultra, Timberline, Timberline 25, Marquis, Royal Sovereign, Sentinel,



## ASPHALT SHINGLE WARRANTIES

3. Products covered			Slateline, D.C. Tite-On
4. Scope of coverage	GAF warrants that its shingles will remain free from manufacturing defects that adversely affect their performance and will resist discoloration resulting in a noticeably unsightly appearance of the roof due solely to most types of fungus and blue-green algae growth.	GAF warrants that its Grand Sequoia shingles will remain free from manufacturing defects that adversely affect their performance.	GAF warrants to the original owner that its shingles will remain free from manufacturing defects that adversely affect their performance. GAF warrants that its fungus-algae resistant shingles will resist discoloration resulting in a noticeably unsightly appearance of the roof due solely to most types of fungus and blue-green algae growth.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that would adversely affect performance and fungus-algae growth.	No; warranty covers manufacturing defects that would adversely affect performance.	No; warranty covers manufacturing defects that would adversely affect performance. All shingles except D.C. Tite-On may also be warranted against fungus-algae growth.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	For Manufacturing Defects: 25 years For Algae Resistance: 15 years	40 years	<p><u>For Manufacturing Defects</u>  40 years: Timberline Ultra  30 years: Timberline, Marquis, Slateline  25 years: Timberline 25, Royal Sovereign, D.C. Tite-On  20 years: Sentinel</p> <p><u>For Algae Resistance</u>  15 years: Timberline Ultra, Timberline, Timberline 25, Marquis, Royal Sovereign, Slateline  10 years: Sentinel</p>
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	For Manufacturing Defects: After five years For Algae Resistance: After one year	After five years	After one year
5c. What is the prorating formula?	<p>For Manufacturing Defects: After five years, warranty is reduced by 1/300 for each month of service from date of installation (so that at the beginning of the sixth year, warranty would be reduced by 60/300).</p> <p>For Algae Resistance: After one year, warranty is reduced by 1/180 for each month of service from date of installation.</p>	After five years, warranty is reduced by 1/480 for each month since original application (so that at the beginning of the sixth year, warranty would be reduced by 60/480).	<p><u>For Manufacturing Defects</u>  <b>Timberline Ultra:</b> After one year, warranty is reduced by 1/480 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/480).  <b>Timberline, Marquis, Slateline:</b> After one year, warranty is reduced by 1/360 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/360).  <b>Timberline 25, Royal Sovereign, D.C. Tite-On:</b> After one year, warranty is reduced by 1/300 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/300).  <b>Sentinel:</b> After one year, warranty is reduced by 1/240 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/240).</p> <p><u>For Algae Resistance</u>  <b>Timberline Ultra, Timberline, Royal Sovereign:</b> After one year, warranty is reduced by 1/180 for each month of service from date of installation.  <b>Sentinel:</b> After one year, warranty is reduced by 1/120 for each month of service from date of installation.</p>
6. Nature of Remedy	For shingles exhibiting manufacturing defects within the first five years or fungus-algae growth within the first year, GAF will pay the full reasonable cost to repair or recover the defective shingles including labor to re-install them, exclusive of underlayment, metal work, flashing or other related work, and/or will provide replacement shingles, or will cause the defective shingles to be repaired or recovered. After the first five years for manufacturing defects and after the first year for fungus-algae growth, GAF will pay either the prorated reasonable cost of repair or recover, or pay the prorated reasonable labor cost of repair or recover and provide prorated recover shingles, or cause the shingles to be repaired or replaced. Labor costs to be paid by GAF are based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects or fungus-algae growth at the time of settlement.	For shingles exhibiting manufacturing defects within the first five years, GAF will pay the full reasonable cost to repair or recover the defective shingles including labor to reinstall them, exclusive of underlayment, metal work, flashing or other related work, and/or will provide replacement shingles, or will cause the defective shingles to be repaired or recovered. After the fifth year, GAF will pay either the prorated reasonable cost of repair or recover, or pay the reasonable labor cost of repair or recover and provide replacement shingles, or cause the shingles to be repaired or recovered. GAF will pay labor costs, if appropriate, based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects at the time of settlement.	For shingles exhibiting manufacturing defects or fungus-algae growth within the first year, GAF will pay the reasonable cost to repair or replace the defective shingles including labor to re-install them, exclusive of underlayment, metal work, flashing, or other related work, and/or will provide replacement shingles, or will cause the defective shingles to be repaired or replaced. After the first year, GAF will pay either the prorated reasonable cost of repair or replacement, or pay the prorated reasonable labor cost of repair or replacement and provide prorated replacement shingles, or cause the shingles to be repaired or replaced. GAF will pay replacement costs, if appropriate, based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects or fungus-algae growth at the time of settlement.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	For the first five years, warranty includes labor to install replacement shingles. After five years, labor is excluded.	For the first five years, warranty includes labor to install replacement shingles. After five years, labor is excluded.	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	No
7. Is there a monetary limitation?	During the fifth year, GAF, at its sole option, will either pay the prorated reasonable cost of repair or recover, or pay the reasonable labor cost of repair or recover and provide replacement shingles or cause the shingles to be repaired or recovered and the amount that GAF will pay or shingles to be provided will be reduced by a percentage reflecting the amount of use. The amount of use will be	The amount that GAF will pay or the shingles to be provided will be reduced by a percentage reflecting the amount of use. The amount of use will be calculated by dividing the number of months elapsed since installation by the number of months in the warranty period. GAF's maximum liability in any event shall not exceed the original cost of labor and materials to install the Grand Sequoia	After the first year, GAF, at its sole option, will either pay the prorated reasonable cost of repair or replacement, or pay the prorated reasonable labor cost of repair or replacement, and the repair or replacement cost that GAF will pay or provide or the shingles will be reduced by a percentage reflecting the amount of use. The amount of use will be calculated by dividing the number of months elapsed since

	calculated by dividing the number of months elapsed since installation by the number of months in the warranty period. For fungus-algae growth during the first year, GAF's liability shall in no event exceed the original installation cost of the affected shingles, including labor. For the remainder of the fungus-algae warranty period, GAF's maximum liability will be the original cost of the shingles, excluding labor, reduced by a percentage reflecting the amount of use.	shingles.	installation by the number of months in the warranty period. For fungus-algae growth during the first year, GAF's liability shall not exceed the original installation cost of the affected shingles including labor. After the first year, GAF's maximum liability for fungus-algae growth will be the original cost of the shingles, excluding labor, reduced by a percentage reflecting the amount of use.
<b>8. Specific Exclusions from Coverage</b> (See Warranty Introduction for codes.)	1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 20, 21, 23, 24	1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 20, 21, 23, 24	1, 2, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 20, 21, 23, 24
<b>9. Wind Coverage/Exclusion</b>	During the first five years, GAF shingles will resist blow-offs and damage from winds up to 60 mph provided that thermal sealing of the shingles has occurred. If shingles are damaged by wind or blown-off by winds up to 60 mph after thermal sealing should have occurred and did not due to a manufacturing defect, GAF will be liable only for the reasonable costs of replacing the blown-off shingles, exclusive of underlayment, metal work, flashing or other related work, and manually sealing any remaining unsealed shingles. GAF's self-sealing shingles must be subjected to warm sunlight for several days before full thermal sealing can occur. Shingles installed in fall or winter may not seal until the following spring. Shingles which are not exposed to direct sunlight or to adequate surface temperatures may never seal. Failure to seal under these circumstances results form the nature of self-sealing shingles and is not a manufacturing defect.	During the first five years, GAF shingles will resist blow-offs and damage from winds up to 60 mph provided that thermal sealing of the shingles has occurred. If shingles are damaged by wind or blown-off by winds up to 60 mph after thermal sealing should have occurred and did not due to a manufacturing defect, GAF will be liable only for the reasonable costs of replacing the blown-off shingles, exclusive of underlayment, metal work, flashing or other related work, and manually sealing any remaining unsealed shingles. GAF's self-sealing shingles must be subjected to warm sunlight for several days before full thermal sealing can occur. Shingles installed in fall or winter may not seal until the following spring. Shingles that are not exposed to direct sunlight or to adequate surface temperatures may never seal. Failure to seal under these circumstances results from the nature of self-sealing shingles and is not a manufacturing defect.	During the first five years, GAF shingles will resist blow-offs and damage from winds up to 60 mph provided that thermal sealing of the shingles has occurred. If shingles are damaged by wind or blown off by winds up to 60 mph after thermal sealing should have occurred and did not due to a manufacturing defect, GAF will be liable only for the reasonable costs of replacing the blown-off shingles, exclusive of underlayment, metal work, flashing, or other related work, and manually sealing any remaining unsealed shingles. GAF's self-sealing shingles must be subjected to warm sunlight for several days before full thermal sealing can occur. Shingles installed in fall or winter may not seal until the following spring. Shingles which are not exposed to direct sunlight or to adequate surface temperatures may never seal. Failure to seal under these circumstances results form the nature of self-sealing shingles and is not a manufacturing defect.
<b>10. Notification Requirements</b>	To file a claim, the owner must send a notice of claim in writing, together with proof of purchase to establish original ownership and proof of application date, to GAF Materials Corporation, Warranty Service Department, 1361 Alps Road, Wayne, NJ 07470, within 30 days after discovery of alleged defect. Owner may be required, at its expense, to submit sample shingles for testing and/or photographs.	To file a claim, owner must send a notice of claim in writing, together with proof of purchase to establish original ownership and proof of application date, to GAF Materials Corporation, Warranty Service Department, 1361 Alps Road, Wayne, NJ 07470, within 30 days after discovery of alleged defect. Owner may be required, at its expense, to submit sample shingles for testing and/or photographs.	To file a claim, the owner must send a notice of claim in writing, together with proof of purchase to establish ownership and proof of application date, to GAF Materials Corporation, Warranty Service Department, 1361 Alps Road, Wayne, NJ 07470, within 30 days after discovery of alleged defect. The owner may be required, at its expense, to submit sample shingles for testing and/or photographs.
<b>11. Determination of Warranty Applicability</b>	Decisions as to the extent of repair or replacement required, whether to repair or recover the shingles, or to pay for repair or recover, and the reasonable cost of such repair or recover will be made solely by GAF.	Decisions as to the extent of repair or replacement required, whether to repair or recover the shingles, or to pay for repair or recover, and the reasonable cost of such repair or recover will be made solely by GAF.	Decisions as to the extent of repair or replacement required, whether to repair or replace the shingles, or to pay for repair or replacement, and the reasonable cost of such repair or replacement will be made solely by GAF.
<b>12. Does the issuing entity manufacture and/or sell the shingles?</b>	GAF manufactures and sells the shingles.	GAF manufactures and sells the shingles.	GAF manufactures and sells the shingles.
<b>13. Specific Conditions to Make Warranty Ineffective or Void</b> (See Warranty Introduction for codes.)	C, E, F	C, E, F	C, E, F
<b>14. Inclusion of Consequential Damages</b>	No	No	No
<b>15. Assignability</b>	Warranty is not transferable.	Warranty may not be transferred or assigned, directly or indirectly, except as follows: (a) The new owner must notify GAF in writing within 30 days after the property transfer has occurred. After transfer, the warranty period will be ten years from date of installation. (b) If the transfer takes place within the first five years, GAF will provide the new owner with the prorated remedy except that the prorated remedy will be based on the original purchase price of the shingles and the original cost of labor to install them. (c) If the transfer takes place after five years, the new owner's remedy is that GAF will provide, at its option, either a prorated amount of shingles or a proration of the original purchase price of the shingles, excluding labor.	Warranty is not transferable.
<b>16. Cost to Obtain</b>	None	None	None
<b>17. Is the warranty backed by insurance coverage?</b>	No	No	No
<b>18. Is the warranty an additional or exclusive remedy for the owner?</b>	Warranty is GAF's only obligation, is exclusive and replaces all other warranties, express or implied. Warranty is owner's exclusive remedy from GAF and represents the sole remedy available to any owner of GAF's shingles. GAF makes no other representations or warranty of any kind.	Warranty is exclusive and replaces all other warranties, express or implied. Warranty is owner's exclusive remedy from GAF and represents the sole remedy available to any owner of GAF's shingles. GAF makes no other representations or warranty of any kind.	Warranty is GAF's only obligation, is exclusive and replaces all other warranties, express or implied. Warranty is owner's exclusive remedy from GAF and represents the sole remedy available to any owner of GAF's shingles. GAF makes no other representations or warranty of any kind.
<b>19. Special Features/Conditions</b>	Notice of claim to contractor or dealer is not notice to GAF. Owner should have warranty certificate signed and dated by contractor or dealer to help establish proof of purchase and related information. Warranty may not be changed or modified. No one, including any representative or employee of GAF, has authority to assume any additional liability or responsibility for GAF.	Notice of claim to contractor or dealer is not notice to GAF. Owner should have warranty certificate signed and dated by contractor or dealer to help establish proof of purchase and related information. Warranty may not be changed or modified. No one, including any representative or employee of GAF, has authority to assume any additional liability or responsibility for GAF.	Notice of claim to contractor or dealer is not notice to GAF. Owner should have warranty certificate signed and dated by contractor or dealer to help establish proof of purchase and related information. Warranty may not be changed or modified. No one, including any representative or employee of GAF, has authority to assume any additional liability or responsibility for GAF.
<b>20. Executed by Owner?</b>	Owner may submit warranty registration and keep and sign owner warranty record indicating date of application, total cost, number of squares, and color.	Owner may submit warranty registration and keep and sign owner warranty record indicating date of application, total cost, number of squares and color.	Owner may submit warranty registration and keep and sign owner warranty record indicating date of application, total cost, number of squares, and color.

## ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	Georgia-Pacific Corporation	GS Roofing Products Company, Inc.	Herbert Malarkey Roofing Company
2. Title, original publication date, and identifying symbol, if any	"Limited Shingle Warranty"; January 1996; Lit. Item #041350	GS Roofing Products Company, Inc. "1994 Limited Roof Shingle Warranty Certificate"; GS6A-No. 070194	"Legacy-30 Limited Warranties"; August 1, 1997
3. Products covered	Summit III, Summit, Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock	Sierra Shake, High Sierra, Architect 80/Estate, Fire Halt, Firescreen Plus 2000, Firescreen	Legacy-30 shingles
4. Scope of coverage	Georgia-Pacific warrants the roofing shingles are free from manufacturing defects, which would reduce the usable life of the shingles. Georgia-Pacific warrants that its algae resistant shingles will remain free of obvious and unsightly discoloration due to algae growth.	GS warrants to the original homeowner/consumer that the roofing shingles as manufactured and sold by GS, are free of any manufacturing defects which may cause leaks under normal exposure conditions.	Malarkey warrants to the original home/building owner that the Legacy-30 shingles are free from manufacturing defects that reduce the life of the shingle. Legacy-30 shingles using 3M Algae Block will resist discoloration or staining due to algae growth which causes an obvious and unsightly appearance on the granules.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that would reduce the usable life of the shingles and algae resistance.	Yes	No; warranty covers manufacturing defects, including algae resistance.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	For Manufacturing Defects: 40 years: Summit III 30 years: Summit, 25 years: Tough-Glass Plus, Tough-Glass T-Lock, Premium-25, Asphalt T-Lock 20 years: Tough-Glass, Asphalt-20 For Algae Resistance: 10 years	40 years: Sierra Shake, High Sierra 30 years: Architect 80/Estate 30 years: Firescreen Plus 2000 25 years: Fire Halt 20 years: Firescreen	Manufacturing Defects: 30 years (See Item 15 below.) Algae Resistance: 15 years Wind: 5 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years: Summit III, Summit, After three years: Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock	After 5 years: Sierra Shake, High Sierra, Architect 80/ Estate, Fire Halt, Firescreen Plus 2000 After 3 years: Firescreen	After five years
5c. What is the prorating formula?	<b>Summit III:</b> After initial five years, warranty is reduced by 1/480 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 60/480). <b>Summit:</b> After initial five years, warranty is reduced by 1/360 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 60/360). <b>Tough-Glass Plus, Tough-Glass T-Lock, Premium-25, Asphalt T-Lock:</b> After initial three years, warranty is reduced by 1/300 for each month since original installation (so that at beginning of fourth year, warranty would be reduced by 36/300). <b>Tough-Glass, Asphalt-20:</b> After initial three years, warranty is reduced by 1/240 for each month since original installation (so that at beginning of fourth year, warranty would be reduced by 36/240).	<b>Sierra Shake, High Sierra:</b> After initial 5 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/480 for each month since original application (so that at beginning of sixth year, warranty would be reduced 60/480). <b>Architect 80/Estate, Fire Halt:</b> After initial 5 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/360 for each month since original application (so that at beginning of sixth year, warranty would be reduced by 60/360). <b>Firescreen Plus 2000:</b> After initial 5 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/300 for each month since original application (so that at beginning of fourth year, warranty would be reduced by 36/300). <b>Firescreen:</b> After initial 3 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/240 for each month since original application (so that at beginning of fourth year, warranty would be reduced by 36/240).	After five years, warranty is reduced by 1/360 for each month since original application, less all sums previously paid (so that at the beginning of the sixth year, warranty would be reduced by 60/360 plus any sums previously paid).
6. Nature of Remedy	Georgia-Pacific is liable for cost to repair or replace defectively manufactured shingles. For algae resistant shingles, Georgia-Pacific's liability shall be to pay the reasonable cost of repair or replacement subject to pro-rating. During the initial three- or five-year period (depending upon the type of shingle), the maximum repair or replacement cost to Georgia-Pacific shall be the replacement cost of those shingles exhibiting discoloration due to algae, including replacement installation costs. For the remainder of the warranty, the maximum repair or replacement cost to Georgia-Pacific shall be the replacement cost of those shingles exhibiting discoloration, in proportion to the unexpired warranty period, excluding all installation costs.	GS will, at its option, provide replacement shingles at current market selling price to the extent of the current warranty value or make such repairs as to restore roof to satisfactory condition.	Malarkey's sole liability is, at its option, to repair or replace the defective shingles or to pay the owner an amount not exceeding the replacement cost of the shingles plus reasonable installation costs. After verification that the shingles are defective, Malarkey will perform its obligation within 45 days of receipt of notice, unless performance is delayed by causes beyond Malarkey's control. For Algae resistant shingles, Malarkey's sole liability is, at its option, to repair or replace the defective shingles, or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. For the first year, the payment to the owner for those shingles exhibiting discoloration due to algae will be an amount not exceeding the original cost of the defective shingles plus reasonable installation costs. During the remaining fourteen year warranty period, the maximum repair or replacement payment will be an amount not exceeding the original cost of those shingles exhibiting discoloration, excluding all installation costs, less a percentage which is based on the number of months elapsed in the warranty period divided by the fifteen year warranty period.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	For the first five years for Summit III, Summit, and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock warranty covers replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, labor costs are excluded.	For first five years for Sierra Shake, High Sierra, Architect 80/Estate and Fire Halt, Firescreen Plus 2000 warranty includes labor to replace defective shingles. After five (5) years, labor to replace defective shingles is excluded from calculation of GS's maximum liability. For first three years for Firescreen warranty includes labor to replace defective shingles. After three years, labor to replace defective shingles is excluded from calculation of GS's maximum liability.	Yes
6c. Does the warranty provide for labor to remove defective shingles?	For the first five years for Summit III, Summit, and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock, warranty covers replacement cost, plus replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, tear off costs are excluded.	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	No

7. Is there a monetary limitation?	For the first five years for Summit III, Summit, and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock, the maximum repair or replacement cost to Georgia-Pacific shall not exceed the replacement cost to the owner for the shingles, plus replacement application cost, exclusive of metal work, flashing or other costs. For the balance of the warranty, Georgia-Pacific's liability excludes any cost for tear-off or replacement installation of new shingles and is prorated.	For first five years for Sierra Shake, High Sierra, Architect 80/Estate, and Fire Halt shingles, GS's maximum liability shall be equal to the reasonable replacement cost of the defective shingles, including labor, exclusive of roof tear-off and flashing and metal work. After initial five years, GS's maximum liability is based upon the original cost of the defective shingles, exclusive of labor, roof tear-off and flashing and metal work and is pro-rated. For the first three years for Firescreen and Firescreen Plus 2000 shingles, GS's maximum liability shall be equal to the reasonable replacement cost of the defective shingles, including labor, exclusive of roof tear-off, and flashing and metal work. After initial three years, GS's maximum liability if based upon the original cost of the defective shingles, exclusive of labor, roof tear-off and flashing and metal work and is pro-rated.	For the first five years, Malarkey's maximum liability shall be equal to the reasonable replacement costs of the defective shingles plus reasonable installation costs, less all sums previously paid under the warranty. After five years, Malarkey's maximum repair or replacement payment to the owner will be an amount not exceeding the replacement cost of the defective shingles plus reasonable installation costs, less a percentage based on the number of months elapsed in the warranty period divided by 360 months warranty period, less all sums previously paid under this warranty.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 4, 8, 13, 19, 23, 24	1, 2, 4, 5, 6, 7, 8, 9, 10, 13, 14 (unless shingle is sold as algae resistant shingle), 16, 17, 21	1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 23
9. Wind Coverage/Exclusion	Georgia-Pacific warrants that its Summit III, Summit, Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lock, Premium-25, Asphalt-20, Asphalt T-Lock will resist damage by wind gusts up to a maximum of 54 mph for the first five years after installation. If, during this five year period, damage occurs to the shingles as a result of wind gusts under 54 mph, Georgia-Pacific will furnish at no charge, replacement shingles for the damaged shingles only, but no replacement labor. Shingles installed under conditions which temporarily or permanently preclude activation of the sealant must be hand sealed at the time of installation. In the event the shingles fail to self-seal after proper installation and climatic exposure, Georgia-Pacific's sole responsibility shall be to pay a reasonable cost to hand seal the affected shingles. In order to activate the sealant feature, the shingles must be exposed to warm sunlight for a continued period of time.	Providing the original installation was proper, during the initial five year period following application, GS further warrants its shingles will resist wind blow-off due to wind velocities, including "gusts" up to a maximum of 60 m.p.h. providing the shingles have had the opportunity to seal down. In situations where GS determines that shingles fail to self-seal after proper installation and climatic exposure, and blow-off damage does occur, GS will furnish replacement GS shingles free of charge. Warranty does not cover labor costs for removal of damaged shingles, application of replacement shingles and any other costs.	Malarkey warrants that for up to five years, the Legacy-30 shingles will resist damage from winds of up to 100 miles per hour. Malarkey's wind warranty applies only if the shingles are sealed, whether by hand sealing or by the self-sealing strips. Hand sealing is recommended when average daytime temperature drops below 50 F during installation. Malarkey's sole liability is, at its option, to repair or replace the defective shingles or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. No amount shall be paid for removal or disposal of damaged shingles. In high-wind areas, as identified by the National Weather Service, shingles should be installed using six fasteners and per Malarkey's printed installation instructions. All shingles which contain a factory-applied self-sealing strip must be subjected to sunlight for several days before full sealing will occur. Shingles installed in the fall or winter may not seal until the following spring; consequently, the shingles should be hand sealed. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of shingles and failure to seal down under such circumstances is not a manufacturing defect. If any self sealing shingles that have been exposed to adequate temperatures and direct sunlight fail to activate the self sealing strips during the first year after application, Malarkey will have no liability under this warranty for each defect unless proper written notification has been made and Malarkey has been allowed the opportunity to hand seal any nonsealed shingles at its own expense.
10. Notification Requirements	Any claim made must be in writing and mailed along with the proof of purchase to Atlas Roofing Corporation [sic], Attention: Consumer Services, 2322 Valley road, Meridian, MS 39307-9805 within five days after discovery of the alleged defect prior to any repairs being made.	Written notification within 30 days of discovery of the alleged defect together with proof of purchase, certified mail, to GS Roofing Products Company, Inc., 5525 MacArthur Blvd., Suite 900, Irving, Texas 75038. Notice must include a general description of the alleged defect.	Claims shall be made in writing, by certified or registered mail, within 30 days of discovery, and prior to any repairs being made.
11. Determination of Warranty Applicability	Within 45 days from receipt of notice, Georgia-Pacific will investigate claim, or at its option, designate in writing another party including the owner to procure samples and forward them to Georgia-Pacific.	GS' determination	Malarkey verifies that shingles are defective.
12. Does the issuing entity manufacture and/or sell the shingles?	Georgia-Pacific sells shingles only.	GS manufactures and sells the shingles.	Malarkey manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E. Warranty also states that warranty will be void if information submitted on warranty information form is erroneous.	C, D, E	C, G, I
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty may be transferred to new buyers of the building only when title to the real estate is transferred.	Warranty is limited to the original homeowner/consumer and cannot be assigned or transferred under any conditions.	Warranty may be transferred one time to the subsequent owner only during the first five years. Once the warranty has been transferred, the new owner's warranty period will be 10 years from date of transfer. The current holder of the warranty must notify Malarkey in writing by registered or certified mail within 30 days from the date title to the property changed. Request to transfer the warranty must include (1) name and address of the current holder of the warranty, (2) date of original completed installation, (3) proof of purchase of the shingles, (4) the address where the shingles are installed, (5) the name and address of the new owner, and (6) the date of title transfer of the property.
16. Cost to Obtain	None	None	None
17. Is the warranty backed by insurance coverage?	Georgia-Pacific indicates that it is self-insured.	No	No
18. Is the warranty an additional or exclusive remedy for the owner?	Warranty is sole and exclusive remedy. Georgia-Pacific makes no representation or warranty of any kind, other than as set forth in the limited warranty. Georgia-Pacific's liability is limited to the provisions of the warranty, whether any claim against it is based upon strict liability, negligence, breach of warranty or any other theory or cause of action. No person is authorized to alter the warranty either orally or in writing.	Warranty is exclusive warranty from GS and represents the exclusive remedy available to any purchaser of GS roofing shingles. GS makes no other representation of any kind.	Warranties are the only express warranties made by Malarkey in connection with the sale of its product. No person is authorized to alter warranty either orally or in writing.
19. Special Features/Conditions		All disputed claims or other disputes that may arise between the owner and GS relating to the warranty shall be decided by arbitration in accordance with the Construction Industry Arbitration Rules of the American Arbitration Association unless the parties mutually agree otherwise. The award rendered by the arbitrators shall be final and judgment may be entered upon such award in accordance with applicable law in any court having jurisdiction. Owner must submit samples that adequately demonstrate the alleged problem for testing by GS as an absolute condition precedent to the right to bring a claim. Warranty may be modified only by a written instrument signed by an authorized GS officer and no retailer, contractor or distributor is authorized to alter warranty.	Malarkey is to be provided with samples before any steps are taken to repair the roof. Any repairs made prior to or during the investigation period without Malarkey's prior written approval will be at owner's expense.
20. Executed by Owner?	No	No	Yes; the owner must complete warranty registration card and return it to Herbert Malarkey Roofing Company, P.O. Box 17217, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.

## ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	Herbert Malarkey Roofing Company	Herbert Malarkey Roofing Company	Herbert Malarkey Roofing Company
2. Title, original publication date, and identifying symbol, if any	"Highlander-25 Limited Warranties"; October 1, 1997	Herbert Malarkey Roofing Company [Limited Warranty]; 1977	Herbert Malarkey Roofing Company [Limited Warranties for the Hurricane Shingle]; 1993
3. Products covered	Highlander-25 shingles	Type 202, 204 Premium Metric Fiberglass, Type 210, 230 SBS Metric Polyglass	Hurricane Shingles, Type 240 SBS Metric Polyglass
4. Scope of coverage	Malarkey warrants to the original home/building owner that the Highlander-25 shingles are free from manufacturing defects that reduce the life of the shingle.	Malarkey warrants its shingles to be free from manufacturing defects.	The Hurricane shingles are free from manufacturing defects.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that reduce the life of the shingle.	No; warranty covers manufacturing defects.	No; warranty covers manufacturing defects, including algae resistance. (See Item 19 below.)
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	25 years (See Item 15 below.)	30 years: Type 230 SBS Metric Polyglass 25 years: Type 204 Premium Metric Fiberglass, Type 210 SBS Metric Polyglass 20 years: Type 202 Premium Metric Fiberglass	30 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After three years	Immediately upon application	After one year
5c. What is the prorating formula?	After three years, warranty is reduced by 1/300 for each month since original application, less all sums previously paid (so that at the beginning of the fourth year, warranty would be reduced by 36/300 plus any sums previously paid).	The prorated adjustment will be calculated by multiplying the original reasonable cost of the material and installation, times the number of squares of defective shingles, divided by the total number of years in the applicable warranty period, and then multiplied by the number of years remaining.	After one year, warranty is reduced by 1/360 for each month since original application, less all sums previously paid (so that at the beginning of the second year, warranty would be reduced by 12/360 plus any sums previously paid).
6. Nature of Remedy	Malarkey's sole liability is, at its option, to repair or replace the defective shingles or to pay the owner an amount not exceeding the replacement cost of the shingles plus reasonable installation costs. After verification that the shingles are defective, Malarkey will perform its obligation within 45 days of receipt of notice, unless performance is delayed by causes beyond Malarkey's control.	Malarkey shall, at its option, elect to repair or replace the defective shingles or pay to the owner an amount not to exceed the original reasonable cost of the shingles and installation, prorated for the number of years remaining on the warranty, less all sums previously paid under the warranty. Malarkey shall perform its obligations under the warranty within 45 days from receipt of notice, unless performance is delayed by causes beyond Malarkey's control.	Malarkey's sole liability is, at its option, to repair or replace the defective shingles, or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. After one year, the warranty is prorated. After verification that the shingles are defective, Malarkey will perform its obligations within 45 days of receipt of notice, unless performance is delayed by causes beyond Malarkey's control.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	Warranty states that Malarkey will repair or replace defective shingles or make payment to owner. [Malarkey indicates that warranty does not provide labor to remove defective shingles.]	Warranty states that Malarkey will repair or replace defective shingles or make payment to the owner. [Malarkey indicates that warranty does not provide for labor to remove defective shingles.]
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	No
7. Is there a monetary limitation?	For the first three years, Malarkey's maximum liability shall be equal to the reasonable replacement costs of the defective shingles plus reasonable installation costs, less all sums previously paid under the warranty. After three years, Malarkey's maximum repair or replacement payment to the owner will be an amount not exceeding the replacement cost of the defective shingles plus reasonable installation costs, less a percentage based on the number of months elapsed in the warranty period divided by 300 months warranty period, less all sums previously paid under this warranty.	Malarkey's maximum liability shall not exceed the original reasonable cost of the shingles and installation, prorated for the number of years remaining in the warranty, less all sums previously paid.	For the first year, Malarkey's liability shall not exceed the original cost of the shingles plus reasonable installation costs. After one year, Malarkey's maximum contribution toward the repair or replacement payment to the owner will not exceed the original cost of the defective shingles plus installation costs, less a percentage based on the number of months elapsed in the warranty period divided by the 360 month warranty period, less all sums previously paid under the warranty.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 23	1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 23	1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 19, 23
9. Wind Coverage/Exclusion	Malarkey warrants that for up to five years, the Highlander-25 shingles will resist damage from winds of up to 60 miles per hour. Malarkey's wind warranty applies only if the shingles are sealed, whether by hand sealing or by the self-sealing strips. Hand sealing is recommended when average daytime temperature drops below 50 F during installation. Malarkey's sole liability is, at its option, to repair or replace the defective shingles or to pay to the owner an amount not	Malarkey warrants that up to five years from the date of installation, its shingles will resist damage from winds up to 54 mph for Types 202, 204 and 210 and for winds up to 100 mph for Type 230 SBS. Malarkey's sole liability for wind damage shall be to supply new shingles to replace those damaged or blown off by the wind. No amount will be paid by Malarkey for removal of damaged shingles or installation of replacement shingles.	Malarkey warrants for up to five years, the Hurricane shingles will resist damage from winds up to 100 mph. Malarkey's sole liability will be to supply new shingles to replace those damaged or blown from the roof by the wind. No amount will be paid for removal of damaged shingles or the installation of replacement shingles.

	<p>exceeding the original cost of the shingles plus reasonable installation costs. No amount shall be paid for removal or disposal of damaged shingles. In high wind areas, as identified by the National Weather Service, shingles should be installed using six fasteners and per Malarkey's printed installation instructions.</p> <p>All shingles which contain a factory-applied self-sealing strip must be subjected to sunlight for several days before full sealing will occur. Shingles installed in the fall or winter may not seal until the following spring; consequently, the shingles should be hand sealed. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of shingles and failure to seal down under such circumstances is not a manufacturing defect. If any self sealing shingles that have been exposed to adequate temperatures and direct sunlight fail to activate the self sealing strips during the first year after application, Malarkey will have no liability under this warranty for each defect unless proper written notification has been made and Malarkey has been allowed the opportunity to hand seal any non-sealed shingles at its own expense.</p>		
<b>10. Notification Requirements</b>	Claims shall be made in writing, by certified or registered mail, within 30 days of discovery, and prior to any repairs being made.	Written notice of the discovery of manufacturing defects, by registered or certified mail, shall be given to Malarkey within 30 days after discovery.	Claims shall be made in writing, by certified or registered mail, within 30 days of discovery, and prior to any repairs being made.
<b>11. Determination of Warranty Applicability</b>	Malarkey verifies that shingles are defective.	Malarkey shall be given opportunity to inspect the material and to be provided with samples before any steps are taken to adjust the claim.	Malarkey will be given the opportunity to inspect the roof and to be provided with samples before any steps are taken to repair the roof.
<b>12. Does the issuing entity manufacture and /or sell the shingles?</b>	Malarkey manufactures and sells the shingles.	Malarkey manufactures and sells the shingles.	Malarkey manufactures and sells the shingles.
<b>13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)</b>	C, G, I	C, G, I	C, G, I
<b>14. Inclusion of Consequential Damages</b>	No	No	No
<b>15. Assignability</b>	Warranty may be transferred one time to a subsequent owner only during the first three years. Once the warranty has been transferred, the new owner's warranty period will be 7 years from date of transfer. The current holder of the warranty must notify Malarkey in writing by registered or certified mail within 30 days from the date title to the property changed. Request to transfer the warranty must include (1) name and address of the current holder of the warranty, (2) date of original completed installation, (3) proof of purchase of the shingles, (4) the address where the shingles are installed, (5) the name and address of the new owner, and (6) the date of title transfer of the property.	Warranty is valid only to the original owner and is not transferable.	Warranty is valid only to the original owner and is not transferable.
<b>16. Cost to Obtain</b>	None	None	None
<b>17. Is the warranty backed by insurance coverage?</b>	No	No	No
<b>18. Is the warranty an additional or exclusive remedy for the owner?</b>	Warranties are the only express warranties made by Malarkey in connection with the sale of its product. No person is authorized to alter these limited warranties either orally or in writing.	The limited shingle warranty and limited wind warranty are the only express warranties made by Malarkey in connection with the sale of its product. No representative of Malarkey or other person has any authority whatsoever to accept from or for Malarkey any additional or different liability, or responsibility for Malarkey products.	Warranties are the only express warranties made by Malarkey in connection with the sale of its product. No person is authorized to alter these limited warranties either orally or in writing.
<b>19. Special Features/Conditions</b>	Malarkey is to be provided with samples before any steps are taken to repair the roof. Any repairs made prior to or during the investigation period without Malarkey's prior written approval will be at owner's expense.	See Item 20.	Malarkey warrants that the Hurricane shingles will resist discoloration or staining due to algae growth which causes an obvious and unsightly appearance on the granules for a period of 15 years. Malarkey's sole liability is, at its option, to repair or replace the defective shingles, or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. For the first year, the payment to the owner for those shingles exhibiting discoloration due to algae will be an amount not exceeding the original cost of the defective shingles plus reasonable installation costs. During the remaining 14-year (168-month) warranty period, the maximum repair or replacement payment will be an amount not exceeding the original cost of those shingles exhibiting discoloration, excluding all installation costs, less a percentage which is based upon the number of months elapsed in the warranty period divided by the 15-year (180-month) warranty period.
<b>20. Executed by Owner?</b>	Yes; the owner must complete warranty registration card and return it to Herbert Malarkey Roofing Company, P.O. Box 17217, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.	Yes; the owner must complete warranty registration card and return it to Herbert Malarkey Roofing Company, P.O. Box 17217 Kenton Station, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.	Yes; the owner must complete warranty registration card and returns it to Malarkey at Herbert Malarkey Roofing Company, P.O. Box 17217 Kenton Station, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.

## ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	IKO Manufacturing Inc.	IKO Manufacturing Inc.	Owens Corning
2. Title, original publication date, and identifying symbol, if any	"Asphalt Shingle Limited Warranty"; December 1, 1996	"Asphalt Shingle Limited Lifetime Warranty Dynasty Warranty Coverage"; January 1, 1997	"Roofing System Advantage Limited Warranty;" May 1998; Pub. No. 15-RR-21561-D
3. Products covered	Chateau Ultra Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline 25, Cathedral 25, Imperial Seal 20, Imperial Glass 20	Dynasty (See Special Features/Conditions.)	Oakridge 40 Deep Shadow, Oakridge 40 Deep Shadow AR, Oakridge 30 Shadow, Oakridge 30 Shadow AR, Prominence, Prominence AR, Oakridge 25, Oakridge 25 AR, Supreme 30, Supreme 30 AR, Glaslock, Classic, Classic AR
4. Scope of coverage	IKO warrants to the original consumer-purchaser that its shingles are free from manufacturing defects that result in leaks.	IKO warrants to the original consumer-purchaser that the Dynasty shingles are free from manufacturing defects that result in leaks and IKO warrants against discoloration due to algae growth.	Owens Corning warrants that the Owens Corning Roofing System components are free from manufacturing defects that would reduce the performance of the System components. (See Special Features/Conditions.) Owens Corning warrants that shingles described as algae resistant shall be resistant to algal, fungal, lichen or cyanobacterial growth.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	Yes	No; warranty also covers algae resistance.	No; warranty covers manufacturing defects that affect shingle performance.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	30 years: Chateau Ultra Shadow Band, Crowne 30 25 years: Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline 25, Cathedral 25 20 years: Imperial Seal 20, Imperial Glass 20  (See Item 15 for effect of transfer.)	For manufacturing defects: warranty extends for the lifetime of the original consumer-purchaser who retains ownership of the individual residential property on which the shingles were installed. Lifetime warranty ends automatically upon the sale or transfer of the property or upon death of the individual who was the property owner at the time the Dynasty shingles were installed. Dynasty shingles installed on any type of building other than individual residences, such as, but not limited to, corporate, commercial, governmental, condominium, school, religious, apartment or multi-family type buildings, the length of the warranty is 40 years. If the warranty is transferred during the first 7 years, the total duration of the warranty is limited to 15 years. For algae resistance: 10 years For wind coverage: 5 years	For Manufacturing Defects: 40 years: Oakridge 40 Deep Shadow 30 years: Oakridge 30 Shadow, Prominence, Supreme 30 25 years: Oakridge 25, Supreme, Glaslock 20 years: Classic  For Algae Resistance: 10 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After 5 years: Chateau Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline 25, Cathedral 25 After 3 years: Imperial Seal 20, Imperial Glass 20	After 7 years	For Manufacturing Defects: After 15 years: Oakridge 40 Deep Shadow After 10 years: Oakridge 30 Shadow, Prominence, Supreme 30 After 7 years: Oakridge 25, Supreme, Glaslock After 5 years: Classic If consumer purchases Raft-R-Mate attic vents and Soffit Vents from Owens Corning, the non-prorated period shall be extended by an additional two years. For Algae Resistance: After 1 year
5c. What is the prorating formula?	After the initial period (three or five years, depending upon the product)(see Item 5b above), all IKO warranties are reduced by 1/225 per month for the first 15 years of the warranty period. After the first 15 years, the monthly reduction figure changes as follows: for Royal Victorian, Imperial Seal 20, and Imperial Glass 20, the warranty is reduced by 1/300 per month; for Cambridge Ultra, Renaissance XL, Aristocrat 25 and Imperial Gentry 25, Skyline 25 and Cathedral 25, the warranty is reduced by 1/600 per month; for Chateau Shadow Band and Crowne 30, the warranty is reduced by 1/900 per month (so that at the beginning of the sixteenth year, each warranty would be reduced by 180/225 and then either 1/300, 1/600 or 1/900 for each month thereafter, depending upon the type of shingle.)	After the initial seven-year period, the IKO warranty is reduced by 1/225 per month for the first 15 years of the warranty period (so that at the beginning of the eighth year, warranty would be reduced by 84/225 and reduced by an additional 1/225 for each month through year 15). After the first 15 years, the warranty is reduced by 384/480 (80%) for months 181-480 and the warranty is reduced 432/480 (90%) after 480 months.	For Manufacturing Defects: Oakridge 40 Deep Shadow - After 15 years, warranty is reduced by 1/480 for each month since original installation (so that at the beginning of the 16th year, warranty would be reduced by 180/480). Oakridge 30 Shadow, Prominence, Supreme 30 - After 10 years, warranty is reduced by 1/360 for each month since original installation (so that at the beginning of the 11th year, warranty would be reduced by 120/480). Oakridge 25, Supreme, Glaslock - After 7 years, warranty is reduced by 1/300 for each month since original installation (so that at the beginning of the 8th year, warranty would be reduced by 84/300). Classic - After 5 years, warranty is reduced by 1/240 for each month since original installation (so that at the beginning of the 6th year, warranty would be reduced by 60/240). For Algae Resistance: Algae Resistant Shingles - After 1 year, warranty is reduced by 1/120 for each month since original installation (so that at the beginning of the second year, warranty would be reduced by 12/120).
6. Nature of Remedy	IKO will at its option have the shingles repaired or replaced free of charge, exclusive of costs for tear-off, flashings, and metal work.	During the first seven years, IKO will at its option have the shingles repaired or replaced free of charge, exclusive of costs for tear-off, flashing, and metal work or required repairs to associated defects or damage. After seven years, IKO's liability toward repair or replacement is the pro-rated amount of the current value of the shingles only, exclusive of labor, disposal, and tear-off.  In the event that an algae develops causing discoloration of the Dynasty shingles within the first ten years, IKO will at its option clean, repair, or replace (including installation labor costs where necessary) only those shingles which have developed the algae growth that cause discoloration.	During the initial period (15, 10, 7 or 5 years, depending upon the product -- see Item No. 5b), Owens Corning shall pay the reasonable cost of repair or replacement of the defective System components as well as any other System components which must also be repaired or replaced in order to properly repair or replace the defective System components, including labor, exclusive of tear-off, disposal, metal work, flashing or other related work. After the initial periods, Owens Corning shall pay prorated reasonable replacement costs as determined by Owens Corning. A monetary settlement will be the only remedy available to the consumer for defective System components. If algae resistant shingles exhibit discoloration due solely to algal, fungal, lichen or cyanobacterial growth, Owens Corning will pay the consumer prorated, reasonable cost of repair or replacement.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes, for the first five years for Chateau Ultra Shadow Band, Crowne 30, Cambridge Ultra Shadow, Renaissance XL, Royal Victorian, Cathedral 25, Skyline 25, Aristocrat 25 and Imperial Gentry 25 and, for the first three years for Imperial Glass 20 and Imperial Seal 20, the warranty includes labor to install replacement shingles; no, for the balance of each warranty.	For manufacturing defects: yes, for the first seven years; no, for the balance of the warranty. For algae resistance: yes, for the first year; no, for the nine year balance of the warranty	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	Yes; warranty covers all Owens Corning Roofing System Components such as Owens Corning Vent/Sure ridge vent, hip and ridge products, WeatherLock, No. 15 or No. 30 asphalt saturated felt, Raft-R-Mate attic vents, soffit vents.
7. Is there a monetary limitation?	During the first five years for Chateau Ultra Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline 25 and Cathedral 25, and three years for Imperial Seal 20 and Imperial Glass 20, IKO's	During the first seven years, IKO's maximum liability shall be equal to the reasonable replacement cost of the defective shingles that are proven to have a manufacturing defect which has resulted in leaks. After the initial seven-year period, IKO's maximum	For manufacturing defects, during the nonprorated period, Owens Corning's maximum costs shall be the replacement cost of the defective System components, including labor, exclusive of metal work, flashing or other related work. For algae resistance, during the

	maximum liability shall be equal to the reasonable replacement cost of the defective shingles that are proven to have a manufacturing defect which has resulted in leaks. After the initial period applicable to the specific product, IKO's maximum liability toward repairs or replacement shall be a prorated amount of the current value of the shingles only (exclusive of labor, disposal, and tear-off).	liability toward repairs or replacement shall be a prorated amount of the current value of the shingles only (exclusive of labor, disposal, and tear-off).	first year, Owens Corning's maximum liability shall be the replacement cost of the AR shingles exhibiting discoloration up to the initial cost of the shingles and their initial installation. For the balance of the warranty, Owens Corning's maximum costs shall be prorated and the prorating formula for algae resistance shall exclude the cost of installation labor.
8. <b>Specific Exclusions from Coverage</b> (See Warranty Introduction for codes.)	1, 2, 4, 6, 8, 9, 13, 14, 17, 19, 23, 24. Warranty also excludes any back surfacing transfer or asphalt staining, any costs related to disposal, and any costs related to the removal of any asbestos present in the roof to which IKO shingles are installed.	1, 2, 4, 6, 8, 9, 13, 14, 17, 19, 23, 24. Warranty also excludes any back surfacing transfer or asphalt staining, any costs related to disposal, and any costs related to the removal of any asbestos present in the roof to which IKO shingles are installed.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 17, 19, 21, 23, 24
9. <b>Wind Coverage/Exclusion</b>	IKO warrants its shingles for five years against wind blow-off damage due to wind velocities, including "gusts" up to a maximum of 60 mph. In the event that it is proven that there has been wind damage from winds up to 60 mph, IKO will furnish similar shingles necessary for replacement for damaged shingles. Warranty does not cover the labor costs for the removal of damaged shingles or the application of the replacement shingles.  All self-sealing strip shingles must be subjected to direct sunlight for several days before full sealing will occur. Shingles installed in fall or winter may not seal until the following spring. Shingles that do not receive direct sunlight or that are not exposed to adequate surface temperatures may not seal. Damage to the factory applied self-sealing strip by dust, sand or foreign matter will prevent the sealing strip from activating. Failure to seal down under such circumstances is not a manufacturing defect.  For shingles which fail to activate during the first year after application, IKO will have no liability under warranty for defects unless proper written notification has been made and IKO has been allowed the opportunity to hand seal any non-sealed shingles at its own expense.	IKO warrants its shingles for five years against wind blow-off damage due to wind velocities, including "gusts" up to a maximum of 60 mph. In the event that it is proven that there has been wind damage from winds up to 60 mph, IKO will furnish similar shingles necessary for replacement for damaged shingles. Warranty does not cover the labor costs for the removal of damaged shingles or the application of the replacement shingles.  All self-sealing strip shingles must be subjected to direct sunlight for several days before full sealing will occur. Shingles installed in fall or winter may not seal until the following spring. Shingles that do not receive direct sunlight or that are not exposed to adequate surface temperatures may not seal. Damage to the factory applied self-sealing strip by dust, sand, or foreign matter will prevent the sealing strip from activating. Failure to seal down under such circumstances is not a manufacturing defect.  For shingles which fail to activate during the first year after application, IKO will have no liability under warranty for defects unless proper written notification has been made and IKO has been allowed the opportunity to hand seal any nonsealed shingles at its own expense.	During the first five (5) years after installation, 20- and 25-year shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 60 mph. 30- and 40-year shingles classified as [Wind Resistant] shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 80 mph only during the first five (5) years after installation. In cases where Owens Corning determines that thermal sealing should have occurred and did not due to a manufacturing defect, Owens Corning will be liable only for the reasonable cost of replacing blown-off shingles and the reasonable cost of manually sealing the unsealed shingles remaining on the roof. Shingles installed in the fall or winter may not seal until the following spring. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of shingles and failure to seal under such circumstances is not a manufacturing defect.
10. <b>Notification Requirements</b>	Claims must be filed within thirty days of discovery of the alleged defect in the following manner: (1) contact IKO Quality Services at 1-800-433-2811; (2) furnish the information as requested by the quality services representative; (3) complete, sign and return the home owner inquiry survey, including proof of purchase indicating the IKO product involved, the required number of pictures, and two full sample shingles; and (4) provide access to the IKO products in question for the purpose of investigation if requested.	Claims must be filed within thirty days of discovery of the alleged defect in the following manner: (1) contact IKO Quality Services at 1-800-433-2811; (2) furnish the information as requested by the quality services representative; (3) complete, sign and return the home owner inquiry survey, including proof of purchase indicating the IKO product involved, the required number of pictures, and two full sample shingles; and (4) provide access to the IKO products in question for the purpose of investigation if requested.	Claims must be submitted in writing to Owens Corning World Headquarters, One Owens Corning Parkway, Consumer Response Center, System Advantage Warranty Administrator, Toledo, Ohio 43659, within 30 days after discovery of the alleged defect. Notice to contractor or dealer is not notice to Owens Corning.
11. <b>Determination of Warranty Applicability</b>	IKO will, within approximately sixty days of receipt of the completed home owner inquiry survey, evaluate the claim and respond. Any claimed defect for which notice is not received by IKO within the applicable warranty period is not covered by this warranty. Failure to provide requested information will cause the claim not to be considered.	IKO will, within approximately sixty days of receipt of the completed home owner inquiry survey, evaluate the claim and respond. Any claimed defect for which notice is not received by IKO within the applicable warranty period is not covered. Failure to provide requested information will cause the claim not to be considered.	In all cases the extent of repair and replacement will be at the sole discretion of Owens Corning.
12. <b>Does the issuing entity manufacture and/or sell the shingles?</b>	IKO manufactures and sells the shingles.	IKO manufactures and sells the shingles.	Owens Corning manufactures and sells the shingles.
13. <b>Specific Conditions to Make Warranty Ineffective or Void</b> (See Warranty Introduction for codes.)	I; no warranty coverage if shingles are installed over insulated roof deck panels.	I; warranty does not apply if slope is less than 4:12 or shingles are applied over insulated roof deck panels.	C, E
14. <b>Inclusion of Consequential Damages</b>	No	No	No
15. <b>Assignability</b>	Warranty may be transferred by the original consumer-purchaser only to a subsequent property owner within ten years following shingle installation under the following conditions: (1) notification of a request for transfer must be received in writing by IKO at 6600 S. Central Avenue, Chicago, IL 60638, Attn: Quality Services, from the original consumer-purchaser, within thirty days after the date of the real estate transfer. Request must include a copy of the original invoice showing proof of purchase of the IKO product and a copy of the real estate transfer; and (2) a transfer fee of \$100 must accompany all requests for warranty transfer.  Should a transfer occur during the initial five years for Chateau Shadow Band, Cambridge Ultra, and Renaissance XL, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 30 or 25 years. Except as stated above, if there is a transfer within ten years of installation, the remaining duration of the warranty shall be two years from the date of real estate transfer; the warranty will be prorated using the date of installation as the start date, and the warranty will exclude labor costs.	Warranty may be transferred by the original consumer-purchaser only to a subsequent property owner only within the first seven-year period under the following conditions: (1) notification of a request for transfer must be received in writing by IKO at 6600 S. Central Avenue, Chicago, IL 60638, Attn: quality services, from the original consumer-purchaser, within thirty days after the date of the real estate transfer. Request must include a copy of the original invoice showing proof of purchase of the IKO product and a copy of the real estate transfer; and (2) a transfer fee of \$100 must accompany all requests for warranty transfer.	Warranty may be transferred one time if the original consumer sells the building upon which the Owens Corning Roofing System has been installed under the following conditions: (1) warranty transfer card must be completed and returned to Owens Corning within 30 days of the date of the sale of building; and (2) payment of \$50.00 transfer fee.
16. <b>Cost to Obtain</b>	None	None	\$50.00 registration fee.
17. <b>Is the warranty backed by insurance coverage?</b>	No	No	No
18. <b>Is the warranty an additional or exclusive remedy for the owner?</b>	This warranty replaces all other oral or written warranties, liabilities, or obligations of IKO; all implied warranties are excluded. IKO will not be liable for any oral statement or other written statement about the shingle, whether such statements are made by an agent or employee of IKO or by any other person. IKO does not authorize its representatives, distributors, contractors, or dealers to make any changes or modifications to warranty.	This warranty replaces all other oral or written warranties, liabilities or obligations of IKO. IKO will not be liable for any oral statement or other written statement about the shingle, whether such statements are made by an agent or employee of IKO or by any other person. IKO does not authorize its representatives, distributors, contractors, or dealers to make any changes or modifications to this warranty; excludes UCC warranties.	Warranty contains all of the provisions of remedies from Owens Corning. Owens Corning's liability is limited to the provisions of the warranty, whether any claim against it is based on strict liability, negligence, breach of warranty, or any other theory or cause of action.
19. <b>Special Features/Conditions</b>	For all products, the original consumer-purchaser may extend the initial three or five years of nonprorated warranty coverage, which includes labor to install replacement shingles, for up to two years. This optional purchase must take place during the first year of warranty coverage only. IKO will charge a one time fee of \$5.00/100 sq. ft. of roofing per year of additional coverage for this extension. Call the IKO quality services dept. at 800-433-2811 to purchase this additional coverage.  No action for breach of this limited warranty shall be brought against IKO later than one year after any cause of action has accrued. IKO reserves the right to discontinue or modify any of its products, including the color blend of its shingles, without notice to the original consumer-purchaser and shall not be liable to the original consumer-purchaser as a result of this modification or discontinuance.  IKO will have no liability in the event that replacement material may vary in color in comparison to the original product as a result of product changes or normal weathering.	This warranty only covers Dynasty shingles when they are installed on roof slopes of 4 in 12 or greater.  No action for breach of this limited warranty shall be brought against IKO later than one year after any cause of action has accrued. IKO reserves the right to discontinue or modify any of its products, including the color blend of its shingles, without notice to the original consumer-purchaser and shall not be liable to the original consumer-purchaser as a result of this modification or discontinuance. IKO will have no liability in the event that replacement material may vary in color in comparison to the original product as a result of product changes or normal weathering.	Consumer must purchase a complete "Roofing System" from Owens Corning to be installed on a single-family dwelling with a roof that is no larger than 100 squares. The Roofing System may not be installed over existing roofing materials, all of which must be removed to the deck. The components of a complete roofing system includes all of the following items: (1) Owens Corning asphalt shingles; (2) Owens Corning VentSure ridge vent product in conjunction with eave and/or soffit intake vents to ensure that air circulates freely under the roof deck; (3) one of Owens Corning's hip and ridge products or an Owens Corning shingle product in lieu of hip and ridge product (provided that such shingle product has a warranty period which is at least equal to the warranty period for the roofing shingles purchased); (4) Owens Corning WeatherLock installed according to Owens Corning's recommended applications (unless WeatherLock is not available in the consumer's area; and (5) any breather type No. 15 or No. 30 asphalt saturated felt which is intended to be used as shingle underlayment.  Owens Corning may require consumer to submit, at consumer's expense, sample shingles for testing and for photographs.
20. <b>Executed by Owner?</b>	No	No	



## ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	Owens Corning	Owens Corning	PABCO Roofing Products, division of Pacific Coast Building Prods, Inc.
2. Title, original publication date, and identifying symbol, if any	"Limited Warranty on Roofing Shingles;" April 1998; Pub. No. 16-RR-08456-W	"Limited Warranty on Algae Resistant Shingles;" February 1998; Pub. No. 16-RR-13760-N	"Shingle Warranty"; September 1989
3. Products covered	Oakridge 40 Deep Shadow, Oakridge 30 Shadow, Oakridge 25, Prominence, Supreme 30, Supreme, Classic, Glaslock	Oakridge 40 Deep Shadow Algae Resistant, Oakridge 30 Shadow Algae Resistant, Oakridge 25 Algae Resistant, Prominence Algae Resistant, Supreme 30 Algae Resistant, Supreme Algae Resistant, Classic Algae Resistant	PABCO Monarch, PABCO SG-25, PABCO GG-20, PABCO Laminated Shingles: Premier-40, Premier-30/3M Algae Block, Premier-25, Premier-25/3M Algae Block
4. Scope of coverage	Owens Corning warrants to the original consumer purchaser that its roofing shingles are free from manufacturing defects that affect shingle performance	Owens Corning warrants to the original consumer purchaser that its Algae Resistant roofing shingles ("AR shingles") are free from manufacturing defects that affect shingle performance and that the AR shingles will remain free from discoloration due to algal, fungal, lichen and cyanobacterial growth which cause an obvious and unsightly appearance on the AR shingles.	PABCO warrants to the homeowner/consumer that the asphalt shingles are free from actual manufacturing defects and not causing the roof to leak, will remain serviceable for the length of time specified for the shingle applied
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; Warranty covers manufacturing defects that affect shingle performance.	No; warranty covers manufacturing defects that affect shingle performance and unsightly appearance due to fungal, lichen and cyanobacterial growth.	No; warranty also states that shingles are free from manufacturing defects and will remain serviceable
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	40 years: Oakridge Deep Shadow 30 years: Oakridge 30 Shadow, Prominence, Supreme 30 25 years: Oakridge 25, Supreme, Glaslock 20 years: Classic	Non-Algae Manufacturing Defects: 40 years: Oakridge 40 Deep Shadow Algae Resistant 30 years: Oakridge 30 Shadow Algae Resistant, Prominence Algae Resistant, Supreme 30 Algae Resistant 25 years: Oakridge 25 Algae Resistant, Supreme Algae Resistant 20 years: Classic Algae Resistant For Algae Resistance: 10 years: All Owens Corning Algae Resistant (AR) shingles	40 Years: PABCO Premier-40 30 Years: PABCO Premier-30/3M Algae Block 25 Years: PABCO Premier-25, PABCO Monarch, PABCO SG-25, PABCO Premier-25/3M Algae Block 20 Years: PABCO GG-20
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After one year	After one year	After one year.
5c. What is the prorating formula?	Oakridge Shadow: After one (1) year, warranty is reduced by 1/480 for each month of service from the date of installation.  Oakridge 30 Shadow, Prominence, Supreme 30: After one (1) year, warranty is reduced by 1/360 for each month of service from the date of installation.  Oakridge 25, Supreme, Glaslock: After one (1) year, warranty is reduced by 1/300 for each month of service from the date of installation.  Classic: After one (1) year, warranty is reduced by 1/240 for each month of service from the date of installation	For Non-Algae Manufacturing Defects: Oakridge 40 Deep Shadow AR: After one (1) year, warranty is reduced by 1/480 for each month of service from date of installation. Oakridge 30 Shadow AR, Prominence AR, Supreme 30 AR: After one (1) year, warranty is reduced by 1/360 for each month of service from date of installation. Oakridge 25 AR, Supreme AR: After one (1) year, warranty is reduced by 1/300 for each month of service from date of installation. Classic AR: After one (1) year, warranty is reduced by 1/240 for each month of service from date of installation.  For Algae Resistance: After one (1) year, warranty is reduced by 1/120 for each month of service from date of installation.	<b>Premier-40:</b> After one year, warranty is reduced by 1/480 for each month since original application (so that at the beginning of the second year, warranty would be reduced by 12/480). <b>Premier - 30/3M Algae Block:</b> After one year, warranty is reduced by 1/360 for each month since original application (so that at the beginning of the second year, warranty will be reduced by 12/360). <b>Premier - 25, Monarch SAG-25, SG-25/3M Algae Block, Premier - 25/3M Algae Block:</b> After one year, warranty is reduced by 1/240 for each month since original application (so that at the beginning of the second year, warranty would be reduced by 12/240.)
6. Nature of Remedy	For the first year, Owens Corning shall pay the repair or replacement cost of the defective shingles, including labor, exclusive of metal work, flashing or other related work. After one year, Owens Corning shall pay the pro-rated reasonable cost of repair or replacement as determined by Owens Corning. A monetary settlement will be the only remedy available to the consumer for defective shingles..	For Non-Algae Manufacturing Defects: For the first year, Owens Corning shall pay the reasonable cost of repair or replacement of the defective AR shingles, including labor, exclusive of metal work, flashing or other related work. After one year, Owens Corning shall pay the pro-rated reasonable cost of repair or replacement as determined by Owens Corning. A monetary settlement will be the only remedy available to the consumer for defective shingles.  For Algae Resistance: If the AR shingles exhibit discoloration due solely to algal, fungal or cyanobacterial growth during the 10-year algae resistance warranty period, Owens Corning's sole obligation shall be to pay the consumer an amount equal to the reasonable cost of cleaning off such growth. For the first year, Owens Corning's liability shall be replacement costs up to the initial cost of the AR Shingles and their installation. After one year, Owens Corning's liability is limited to pro-rated cost of the original AR shingles.	PABCO, at its election, will repair or replace, free of charge, any shingles proven to be defective during the first year after completion. For the balance of the warranty, PABCO will contribute toward the cost of repairing or replacing defective shingles.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes	Warranty states PABCO will repair or replace defective shingles or make appropriate contribution to repair or replacement.
6c. Does the warranty provide for labor to remove defective shingles?	No	No	Cost of roof tear-off is not included [PABCO states total warranty liability is based on specified, fixed dollar per square amount, corresponding to a reasonable value.]
6d. Does the warranty cover disposal of defective shingles?	No	No	Cost of roof tear-off is not included [PABCO states total warranty liability is based on a specified, fixed dollar per square amount, corresponding to a reasonable value.]
6e. Does the warranty apply to any materials other than shingles?	No	No	No

7. Is there a monetary limitation?	No monetary limitation for first year. After one year, Owens Corning's maximum liability is the prorated reasonable cost of repair or replacement cost as determined by Owens Corning.	Owens Corning's maximum repair or replacement cost shall be the replacement cost of the defective AR shingles, including labor, if there is a non-biological manufacturing defect within the first year. After one year, Owens Corning's liability is prorated. Owens Corning's maximum liability for algae resistant defects occurring within the first year is the initial cost of the AR shingles and the cost of their initial installation. After one (1) year, Owens Corning's maximum liability for algae resistant defects shall not exceed the prorated original cost of the AR shingles, excluding the cost of initial application.	For the first year, PABCO's maximum liability shall be equal to the initial cost of the asphalt shingles and the cost of their initial application, exclusive of costs of flashings and metal work. For the balance of the warranty period, PABCO's maximum liability is: Premier-40: \$80/square Premier-30/3M Algae Block: \$70/square Premier-25/3M Algae Block: \$60/square Premier -25: \$55/square Monarch, SG-25: \$47/square GG-20: \$40/square PABCO's total maximum liability is calculated by multiplying the number of defective shingles by the applicable maximum liability per square and then decreasing the resulting amount by the applicable per month pro-rating (e.g. 1/240, 1/300) for each month of service from date of installation to the date when shingles prove defective.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 15, 17, 19, 21, 23, 24	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 17, 19, 21, 23, 24	1, 2, 4, 6, 7, 8, 9, 13, 16, 19, 23, 24, 28
9. Wind Coverage/Exclusion	During the first five (5) years after installation, 20- and 25-year shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 60 mph. 30- and 40-year shingles classified as [Wind Resistant] shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 80 mph only during the first five (5) years after installation. In cases where Owens Corning determines that thermal sealing should have occurred and did not due to a manufacturing defect, Owens Corning will be liable only for the reasonable cost of replacing blown-off shingles and the reasonable cost of manually sealing the unsealed shingles remaining on the roof. Shingles installed in the fall or winter may not seal until the following spring. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of shingles and failure to seal under such circumstances is not a manufacturing defect.	During the first five (5) years after installation, 20- and 25-year AR shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 60 mph. 30- and 40-year AR shingles classified as [Wind Resistant] shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 80 mph only during the first five (5) years after installation. In cases where Owens Corning determines that thermal sealing should have occurred and did not due to a manufacturing defect, Owens Corning will be liable only for the reasonable cost of replacing blown-off AR shingles and the reasonable cost of manually sealing the unsealed AR shingles remaining on the roof. AR shingles installed in the fall or winter may not seal until the following spring. AR shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of AR shingles and failure to seal under such circumstances is not a manufacturing defect.	PABCO warrants that its shingles will resist wind blow-off due to wind velocities, including "gusts" up to a maximum of 60 mph (Beaufort Scale #9) during the first year following the application of the shingles. If any such blow-off damage occurs during the first year, PABCO will furnish replacement shingles without charge for those shingles damaged. Wind warranty does not cover labor costs for removal of damaged shingles or application of replacement shingles. If self-sealing asphalt shingles fail to properly activate within the first year, PABCO shall have the opportunity to hand seal, at its sole expense, any non-sealing shingles. All shingles containing a strip of thermal sealing asphalt must be subjected to warm sunlight for several days before full sealing will occur. Shingles installed in the fall or winter may not seal until the following spring. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. Failure to seal under such circumstances is not a manufacturing defect.
10. Notification Requirements	Claims must be submitted in writing, together with proof of purchase of the shingles and the application date, to Owens Corning world headquarters, customer response center, Toledo, OH 43659, within 30 days after discovery of the alleged defect.	Claims must be submitted in writing, together with proof of purchase of the AR shingles and the application date, to Owens Corning World Hqtrts, Consumer Response Center, One Owens Corning Parkway, Toledo, OH 43659, within 30 days after discovery of the alleged defect. Notice to contractor or dealer is not notice to Owens Corning.	Written notification shall be provided to PABCO Roofing Products, 1718 Thorne Road, Tacoma, WA 98421-3207, of any defect promptly following its discovery and submitted with notice of proof of date of purchase and application. In all correspondence, reference should be made to registration number on warranty certificate.
11. Determination of Warranty Applicability	In all cases, the extent of repair or replacement required and the reasonable cost of such repair or replacement will be at the sole discretion of Owens Corning.	In all cases the extent of repair and replacement required and the reasonable cost of such repair or replacement will be at the sole discretion of Owens Corning.	PABCO shall promptly inspect claimed defect and, if such examination discloses a defect covered by the warranty, PABCO shall, within a reasonable time after inspection, either repair or replace the defective shingles or make the appropriate contribution toward repair or replacement.
12. Does the issuing entity manufacture and/or sell the shingles?	Owens Corning manufactures and sells the shingles.	Owens Corning manufactures and sells the AR shingles	PABCO manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E	C, E	Application of PABCO Roofing Products on "Geo-Detic" dome construction is not warranted nor approved under any circumstances.
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty is not transferable.	Warranty is not transferable.	Warranty is transferable.
16. Cost to Obtain	None	None	None
17. Is the warranty backed by insurance coverage?	No	No	PABCO indicates that it is self-insured.
18. Is the warranty an additional or exclusive remedy for the owner?	Warranty contains all of the provisions of remedies from Owens Corning. Owens Corning's liability is limited to the provisions of the warranty, whether any claim against it is based on strict liability, negligence, breach of warranty, or any other theory or cause of action.	Warranty contains all of the provisions of remedies from Owens Corning. Owens Corning's liability is limited to the provisions of the warranty, whether any claim against it is based on strict liability, negligence, breach of warranty, or any other theory or cause of action. Consumer's sole and exclusive remedy, and Owens Corning's sole obligation, shall be for Owens Corning to pay the consumer an amount equal to the reasonable cost of cleaning growth off of the affected AR shingles.	Warranty is expressly in lieu of any other guarantees and/or warranties, oral or written, expressed or implied. Warranty is in lieu of all other theories of liability, causes of action, and claims whatsoever, against PABCO.
19. Special Features/Conditions	Within 30 days after receipt of written claim, Owens Corning representative will contact consumer regarding the claim.	Owens Corning may require consumer to submit, at consumer's expense, sample shingles for testing and/or photographs. Owens Corning reserves the right to discontinue or modify any of its shingles, including the color, without notice to the consumer and shall not be liable to the consumer as a result of any such discontinuance or modification, nor shall Owens Corning be liable in the event replacement shingles may vary in color in comparison to the original shingle as a result of normal weathering. If Owens Corning replaces any shingles under warranty, it may substitute shingles designated by Owens Corning to be of comparable quality or price range in the event the original shingles purchased are no longer available.	All actions and proceedings against PABCO based upon the warranty, shall be commenced within the earlier of six months after the defect is discovered by the homeowner, or the last day of the applicable warranty. PABCO reserves the right to discontinue or modify any of its products, including the color of shingles, without notice to the original homeowner/consumer and shall not be liable to the original homeowner/consumer as a result of discontinuance or modification. Warranty applies to shingles applied from January 1, 1997 to December 31, 2000. PABCO Premier-25 3M Algae Block System shingles and SG-25 3M Algae Block System shingles will carry a minimum of 15 years Algae Block limited warranty as warranted by 3M Corporation in conjunction with PABCO Roofing Products' normal warranty.
20. Executed by Owner?	No; contractor or dealer should sign and date the warranty upon completion to help establish proof of purchase.	No	Yes; after job completion, owner should return the asphalt shingle warranty registration to PABCO Roofing Products.
1. Identity of issuing entity	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.

## ASPHALT SHINGLE WARRANTIES

2. Title, original publication date, and identifying symbol, if any	Tamko Roofing Products "Algae Resistant Shingles Limited Warranty," January 31, 1996; 997298, JP23190	Tamko Roofing Products, Inc. "Fiberglass Shingles Limited Warranty," January 31, 1996; 997449 JP 21371	Tamko Roofing Products, Inc. Reliance 25, Reliance 30 Full Start 5 Organic Shingles Limited Warranty;   July 1, 1998; JP21385
3. Products covered	Heritage 40 AR, Heritage 30 AR, Heritage 25 AR, Elite Glass-Seal AR, Glass-Seal AR	Heritage 40, Heritage 30, Heritage 25, Elite Glass-Seal, Glass-Seal, Tam-Loc Glass	Reliance 25, Reliance 30
4. Scope of coverage	Tamko warrants that the Tamko shingles are free from manufacturing defects which result in leaks.	Tamko warrants that the Tamko shingles are free from manufacturing defects which result in leaks.	Tamko warrants that the Tamko shingles are free from manufacturing defects which directly result in leaks
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty also covers algae resistance. Tamko algae resistant (AR) shingles will be resistant to certain algae or fungus growth, including bluegreen algae of the Genus Gloecapsa, that adversely affects appearance.	Yes	Yes
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	For Manufacturing Defects Resulting in Leaks: 40 years: Heritage 40 AR 30 years: Heritage 30 AR 25 years: Heritage 25 AR, Elite Glass-Seal AR 20 years: Glass-Seal AR For Algae Resistance: 10 years: All Tamko algae resistant (AR) shingles	40 years: Heritage 40 30 years: Heritage 30 25 years: Heritage 25, Elite Glass-Seal, Tam-Loc Glass 20 years: Glass-Seal	30 years: Reliance 30 in Region A 25 years: Reliance 25 in Region A 20 years: Reliance 30 in Region B, Reliance 25 in Region B (See Item 19 below)
5a. Is the warranty prorated?	Warranty coverage for manufacturing defects is prorated; warranty coverage for algae resistance is not prorated.	Yes	Yes
5b. When does prorating begin?	After one year for manufacturing defects	After one year	After 5 years
5c. What is the prorating formula?	<b>Heritage 40 AR:</b> After one year, warranty is reduced by 1/480 for each month of service from date of installation. <b>Heritage 30 AR:</b> After one year, warranty is reduced by 1/360 for each month of service from date of installation. <b>Heritage 25 AR, Elite Glass-Seal AR:</b> After one year, warranty is reduced by 1/300 for each month of service from date of installation. <b>Glass-Seal AR:</b> After one year, warranty is reduced by 1/240 for each month of service from date of installation.	<b>Heritage 40:</b> After one year, warranty is reduced by 1/480 for each month of service from date of installation. <b>Heritage 30:</b> After one year, warranty is reduced by 1/360 for each month of service from date of installation. <b>Heritage 25, Elite Glass-Seal, Tam-Loc Glass:</b> After one year, warranty is reduced by 1/300 for each month of service from date of installation. <b>Glass-Seal:</b> After one year, warranty is reduced by 1/240 for each month of service from date of installation.	<b>Region A:</b> Reliance 30: After five years, warranty is reduced by 1/360 for each month of service from date of installation (so that at the beginning of the sixth year, warranty would be reduced by 60/360). Reliance 25: After five years, warranty is reduced by 1/300 for each month of service from date of installation (so that at the beginning of the sixth year, warranty would be reduced by 60/300). <b>Region B:</b> After five years, warranty is reduced by 1/240 for each month of service from date of installation (so that at the beginning of the sixth year, warranty would be reduced by 60/240).
6. Nature of Remedy	For manufacturing defects, Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have ninety days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God. For algae resistance, Tamko will either make repairs or cause repairs to be made to the shingles, which may include cleaning or replacing the shingles, exclusive of flashings and metal work, as required to correct the adverse appearance of the shingles.	Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have ninety days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God.	Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly from manufacturing defects within 90 days after receipt of notification. Alternatively, at Tamko's option, Tamko may tender payment to the owner of the lesser of the reasonable cost of repairs or the amount of Tamko's maximum liability.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No	No
7. Is there a monetary limitation?	During the first year, Tamko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be pro-rated and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles). Tamko's maximum liability for repair or replacement due to algae or fungus growth shall be limited to the original cost of the shingles and the cost of their original installation.	During the first year, Tamko's maximum liability shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be prorated and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles).	During the first 5 years, Tamko's maximum liability shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After 5 years, Tamko's maximum liability shall be limited to the pro-rated reasonable cost of the shingles excluding application costs, and shall be equal to the product of: (1) the quotient derived by dividing the reasonable cost of the shingles by the total months of the term multiplied by (2) the difference between the total months of the term minus the total months of service (the number of months from the date of purchase to the date of notification to Tamko of leaks. The remaining cost shall be the responsibility of the owner.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 4, 7, 8, 9, 14 (green algae, moss and staining from overhanging trees), 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbons, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24 Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.	1, 2, 4, 7, 8, 9, 14, 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbons, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24 Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.	1, 2, 4, 7, 8, 9, 14, 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbon, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24. Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.

<b>9. Wind Coverage/Exclusion</b>	During the first five years after initial application, Tamko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tamko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tamko will repair or replace any such single. Tamko may manually seal the shingles or replace the shingles with shingles of a similar color. Shingles that are installed in the fall or winter may not seal until weather conditions are adequate to allow the seal down strip to be activated.	During the first five years after initial application, Tamko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tamko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tamko will repair or replace any such single. Tamko may manually seal the shingles or replace the shingles with shingles of a similar color. Shingles that are installed in the fall or winter may not seal until weather conditions are adequate to allow the seal down strip to be activated.	During the first five (5) years, when installed according to the instructions printed on the wrapper and after the shingles have had the opportunity to seal down, the Tamko shingles shall resist damage by winds up to 60 mph. If Tamko determines that sealing did not occur as a result of a manufacturing defect, Tamko will repair or replace or tender payment to the owner of the reasonable cost of repairing or replacing any such unsealed shingle. Tamko may manually seal the shingles or replace the shingles with shingles of a similar color or tender payment to the owner of the reasonable cost thereof. Shingles will be conclusively deemed to have been exposed to winds in excess of 60 mph if the National Weather Service or other reputable weather agency records wind in excess of 60 mph in the county or parish where the shingles are installed or in any adjoining county or parish
<b>10. Notification Requirements</b>	The owner must notify Tamko by certified mail at P.O. Box 1404, Joplin, Missouri 64802 of any leaks alleged to result from manufacturing defects or any algae or fungus growth within 30 days following discovery.	Owner must notify Tamko by certified mail at P.O. Box 1404, Joplin, Missouri 64802 of any leaks alleged to result from manufacturing defects within thirty (30) days following discovery.	Owner must notify Tamko by certified mail at P.O. Box 1404, Joplin, Missouri 64802 of any leaks alleged to result from manufacturing defects within (30) days following discovery of leak. Claims require documentary proof of purchase.
<b>11. Determination of Warranty Applicability</b>	The extent of repair or replacement is at the sole discretion of Tamko.	The extent of repair or replacement is at the sole discretion of Tamko.	Extent of repair or replacement is at the sole discretion of Tamko.
<b>12. Does the issuing entity manufacture and/or sell the shingles?</b>	Tamko manufactures and sells the shingles.	Tamko manufactures and sells the shingles.	Tamko manufactures and sells the shingles.
<b>13. Specific Conditions to Make Warranty Ineffective or Void</b> (See Warranty Introduction for codes.)	C, E, F (Hawaii and Alaska are also excluded.)	C, E, F (Hawaii and Alaska also excluded)	E, F, (See Special Features/Conditions
<b>14. Inclusion of Consequential Damages</b>	No	No	No
<b>15. Assignability</b>	Warranty shall not be assigned, sold, or transferred in any manner whatsoever.	Warranty shall not be assigned, sold or transferred in any manner whatsoever.	Warranty shall not be assigned, sold or transferred in any manner whatsoever. Any assignment, sale or transfer of the warranty or the building to which the Tamko shingles are applied shall immediately terminate all liability and warranties.
<b>16. Cost to Obtain</b>	None	None	None
<b>17. Is the warranty backed by insurance coverage?</b>	No	No	No
<b>18. Is the warranty an additional or exclusive remedy for the owner?</b>	Warranty is expressly in lieu of any other obligations, guarantees and warranties, expressed or implied, and any other obligations or liability on the part of Tamko.	Warranty is expressly in lieu of any other obligations, guarantees and warranties, expressed or implied, and any other obligations or liability on the part of Tamko.	Warranty is expressly in lieu of any other obligations, guarantees and warranties, expressed or implied, and any other obligations or liability on the part of Tamko.
<b>19. Special Features/ Conditions</b>	No action for breach of this limited warranty shall be brought later than one year after any cause of action has accrued. Claims under warranty will require proof of purchase. No representative, employee or other agent of Tamko, or any other person, other than Tamko's president, has authority to assume for Tamko any additional liability or responsibility.	No action for breach of this limited warranty shall be brought later than one year after any cause of action has accrued. Claims under warranty will require proof of purchase. No representative, employee or other agent of Tamko, or any other person, other than Tamko's president, has authority to assume for Tamko any additional liability or responsibility.	This warranty only applies to shingles applied in certain regions of the country. Because of environmental conditions in Region C, Tamko does not market or recommend Reliance shingles in Region C which consists of Alabama, California, Florida, Georgia, Louisiana, Mississippi (certain counties), North Carolina, South Carolina, Texas (certain counties), Virginia and West Virginia. In these states, there is no warranty coverage for Reliance shingles and such shingles are sold [as is], without any warranty, expressed or implied. Region A consists of all states other than parts of Arizona, Texas, New Mexico, which are Region B, and those states listed above, which comprise Region C. If reasonable access is denied or made subject to unreasonable conditions by the owner, or if the owner fails or refuses to cooperate in Tamko's investigation of the complaint (including, but not limited to, failing to provide sample shingles or photographs or to complete and return a warranty questionnaire), Tamko's obligation shall immediately terminate. Tender of payment to the owner of the maximum liability, shall immediately terminate all liability of Tamko and all warranties contained herein. No action for breach of this limited warranty or any other action relating to or arising out of the shingles, their purchase or this transaction shall be brought later than one year after any cause of action has accrued. No representative, employee or other agent of Tamko, or any other person, other than Tamko's president, has authority to assume for Tamko any additional liability or responsibility.
<b>20. Executed by Owner?</b>	No	No	No

## ASPHALT SHINGLE WARRANTIES

1. Identity of issuing entity	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.
2. Title, original publication date, and identifying symbol, if any	"Organic Seal-Down 25 Organic Shingles Limited Warranty"; January 15, 1997; 997480, JP21385	Tamko Roofing Products, Inc. [Metric Laminated Shingles Limited Warranty]; January 1995; 997528 JP28994
3. Products covered	Organic Seal-Down 25	Heritage M40, Heritage M30, Heritage M25
4. Scope of coverage	Tamko warrants that the Tamko shingles are free from manufacturing defects which result in leaks.	Tamko warrants that the Tamko shingles are free from manufacturing defects that result in leaks.
a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	Yes	Yes
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No
5. Length of Coverage	25 years: Region A 20 years: Region B (See Item 19 below)	40 years: Heritage M40 30 years: Heritage M30 25 years: Heritage M25
5a. Is the warranty prorated?	Yes	Yes
5b. When does prorating begin?	After one year	After one year
5c. What is the prorating formula?	<b>Region A</b> - After one year, warranty is reduced by 1/300 for each month of service from date of installation. <b>Region B</b> - After one year, warranty is reduced by 1/240 for each month of service from date of installation.	<b>Heritage M40:</b> After one year, warranty is reduced by 1/480 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/480). <b>Heritage M30:</b> After one year, warranty is reduced by 1/360 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/360). <b>Heritage M25:</b> After one year, warranty is reduced by 1/300 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/300).
6. Nature of Remedy	Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have ninety days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God.	For manufacturing defects, Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have 90 days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No
7. Is there a monetary limitation?	During the first year, Tamko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be pro-rated and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles).	During the first year, Tamko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be prorated and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles).
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 4, 7, 8, 9, 14, 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbon, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24. Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.	1, 2, 4, 7, 8, 9, 14, 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbons, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24. Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.
9. Wind Coverage/Exclusion	During the first five years after initial application, Tamko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tamko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tamko will repair or replace any such single. Tamko may manually seal the shingles or replace the shingles with shingles of a similar color. Shingles that are installed in the fall or winter may not seal until weather conditions are adequate to allow the seal down strip to be activated.	During the first five years after initial application, Tamko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tamko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tamko will repair or replace any such shingle. Tamko may manually seal the shingles or replace the shingles with shingles of a similar color. Shingles that are installed in the fall or winter may not seal until weather conditions are adequate to allow the seal down strip to be activated.

<b>10. Notification Requirements</b>	Owner must notify Tamko by certified mail at P.O. Box 1404, Joplin, Missouri 64802 of any leaks alleged to result directly from manufacturing defects within thirty (30) days following discovery.	Owner must notify Tamko by certified mail at P.O. Box 1404, Joplin, Missouri 64802 of any leaks alleged to result from manufacturing defects within thirty days following discovery.
<b>11. Determination of Warranty Applicability</b>	The extent of repair or replacement is at the sole discretion of Tamko.	Tamko determines within a reasonable time after receipt of notification whether there are manufacturing defects covered by the warranty. The extent of repair or replacement is at the sole discretion of Tamko.
<b>12. Does the issuing entity manufacture and/or sell the shingles?</b>	Tamko manufactures and sells the shingles.	Tamko manufactures and sells the shingles.
<b>13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)</b>	C, E, F (See Special Features/Conditions)	C, E, F (California, Hawaii, and Alaska also excluded.)
<b>14. Inclusion of Consequential Damages</b>	No	No
<b>15. Assignability</b>	Warranty shall not be assigned, sold or transferred in any manner whatsoever.	Warranty shall not be assigned, sold, or transferred in any manner whatsoever. Any assignment, sale, or transfer of the warranty or the building to which the Tamko shingles are applied shall void all warranties.
<b>16. Cost to Obtain</b>	None	None
<b>17. Is the warranty backed by insurance coverage?</b>	No	No
<b>18. Is the warranty an additional or exclusive remedy for the owner?</b>	Warranty is expressly in lieu of any other obligations, guarantees and warranties, expressed or implied, and any other obligations or liability on the part of Tamko.	Warranty is expressly in lieu of any other obligations, guarantees, and warranties, expressed or implied, and any other obligations or liability on the part of Tamko.
<b>19. Special Features/Conditions</b>	<p>This warranty only applies to shingles applied in certain regions of the country. Because of environmental conditions in Region C, Tamko does not market or recommend Organic Seal-Down 25 shingles in Region C which consists of Alabama, California, Florida, Georgia, Louisiana, Mississippi (certain counties), North Carolina, South Carolina, Texas (certain counties), Virginia and West Virginia. In these states, there is no warranty coverage for Organic Seal-Down 25 and such shingles are sold "as is," without any warranty, expressed or implied.</p> <p>Region A consists of all states other than parts of Arizona, Texas, New Mexico, which are Region B, and those states listed above, which comprise Region C.</p> <p>No action for breach of this limited warranty shall be brought later than one year after any cause of action has accrued.</p> <p>Claims under warranty will require proof of purchase.</p> <p>No representative, employee or other agent of Tamko, or any other person, other than Tamko's president, has authority to assume for Tamko any additional liability or responsibility.</p>	<p>No action for breach of this limited warranty shall be brought later than one year after any cause of action has accrued.</p> <p>Claims under warranty will require proof of purchase.</p> <p>No representative, employee, or other agent of Tamko, or any other person other than Tamko's president, has authority to assume for Tamko any additional liability or responsibility. This warranty is not valid in California, Hawaii, and Alaska. A separate limited warranty is available for products used in California.</p>
<b>20. Executed by Owner?</b>	No	The owner may submit warranty registration and keep and sign warranty information including contractor's signature and indicating number of squares, date of application, and total cost.

## Fiber-Cement Roof Components

1. COMPANY NAME	AMERICAN CEMWOOD CORPORATION	AMERICAN CEMWOOD CORPORATION	AMERICAN CEMWOOD CORPORATION	ETERNIT, INC.
2. PRODUCT NAME	CASCADE SHAKE	ROYAL SHAKE	PACIFIC SHAKE	ETERNIT SLATES ALTRON DIMENSIONAL SHAPE
3. STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)	NONLAMINATED	X		
C. SIMULATED SLATE (specific type if applicable)			X	X
D. SIMULATED TILE (specific type if applicable)				1
E. OTHER				
F. NUMBER OF COLORS AVAILABLE	3	3	4	1
4. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES	NO
5. MATERIAL COMPOSITION	NONASBESTOS WOOD FIBERS AND PORTLAND CEMENT	NONASBESTOS WOOD FIBERS AND PORTLAND CEMENT	NONASBESTOS WOOD FIBERS AND PORTLAND CEMENT	NONASBESTOS FIBER-REINFORCED CEMENT
6. FACTORY-APPLIED COATING (yes/no)	YES	YES	YES	YES
7. DIMENSIONS AND COVERAGE				
A. DIMENSIONS (inches x inches)	12, 7, AND 5 X 22	14 X 14 1/2	9 5/8 X 22	15 3/4 X 15 3/4
B. EXPOSURE (inches)	10	11 1/4	10	13 3/4 OR 11 3/4
C. HEADLAP (inches)	12	3	12	2 OR 4
D. PIECES PER ROOF SQUARE	144	100	144	89 OR 120
E. BUNDLES PER SQUARE	14 1/4	12 1/2	18	
F. WEIGHT PER ROOF SQUARE (ambient temp.,pounds)	580	480	620	265 OR 362
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS, STAPLES	NAILS, STAPLES	NAILS, STAPLES	NAILS
8. HIP/RIDGE PIECES AVAILABLE? (yes/no)	YES	YES	YES	NO
9. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS				
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION(inches per foot)	4:12	4:12	4:12	8:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	TYPE-30 FELT		TYPE-30 FELT	
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION		TYPE-30 FELT		30-LB. FELT
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION(inches per foot)	3:12		3:12	
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT		TYPE-30 FELT	CONTACT ETERNIT
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT		TYPE-30 FELT	CONTACT ETERNIT
10. RECOMMENDED DECKS				
A. TYPES				
1. SOLID SHEATHING	X	X	X	X
2. SPACED SHEATHING	X		X	X
B. MATERIAL				
1. PLYWOOD/WOOD	X	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X	X
3. WAFERBOARD	X	X	X	X
4. OTHER (specify)				
11. YEAR PRODUCT FIRST SOLD	1989	1984	1995	1998
12. NUMBER OF SQUARES INSTALLED	650,000±	350,000 ±	5,500 ±	50
13. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)	250 ±	250 ±	250 ±	250 +
B. DIRECT (number of regional service locations or no)	NO	NO	NO	1
14. FIRE/WIND RATINGS				
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)	CLASS A	CLASS A AND B	CLASS A	PENDING
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS A	CLASS A AND B	CLASS A	
C. WIND UPLIFT RATING (per UL Standard 580)				
15. ACCEPTED BY THE FOLLOWING CODES	NES, CITY OF LOS ANGELES	NES, CITY OF LOS ANGELES	NES, CITY OF LOS ANGELES	
16A. FOR SALES INFORMATION, CONTACT:	B. KANNENBERG 800/367-3471	B. KANNENBERG 800/367-3471	B. KANNENBERG 800/367-3471	R. HRUZ 800/233-3155
16B. FOR TECHNICAL INFORMATION, CONTACT:	T. SMITH 800/367-3471	T. SMITH 800/367-3471	T. SMITH 800/367-3471	B. NABHOLZ 800/233-3155
17. SEE APPENDIX IF CHECKED				

NA=not applicable

## Fiber-Cement Roof Components

ETERNIT, INC.	ETERNIT, INC.	ETERNIT, INC.	ETERNIT, INC.	JAMES HARDIE BUILDING PRODUCTS INC.	JAMES HARDIE BUILDING PRODUCTS INC.	JAMES HARDIE BUILDING PRODUCTS INC.
ETERNIT ROOFING SLATES CONTINENTAL	ETERNIT ROOFING SLATES ENGLISH	ETERNIT ROOFING SLATES THRUTONE	ETERNIT ROOFING SLATES THRUTONE	HARDISHAKE ROOFING	HARDISLATE ROOFING	HARDISHINGLE ROOFING
				X		X
X	X	X	X		X	
4	5	6	6	3	4	3
NO	NO	NO	NO	YES	YES	YES
NONASBESTOS FIBER-REINFORCED CEMENT	NONASBESTOS FIBER-REINFORCED CEMENT	NONASBESTOS FIBER-REINFORCED CEMENT	NONASBESTOS FIBER-REINFORCED CEMENT	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER
YES	YES	YES	YES	YES	YES	YES
10 5/8 X 15 3/4 6 7/8 OR 5 7/8 2, 3 OR 4 197, 231 OR 265	11 13/16 X 23 5/8 10 13/16 OR 9 13/16 2, 3 OR 4 113, 119 OR 124	9 7/8 X 19 11/16 10 7/8 OR 9 7/8 2, 3 OR 4 165, 176 OF 186	11 13/16 X 23 5/8 10 13/16 OR 9 13/16 2M, 3 OR 4 113, 119 OR 124	12, 8, AND 6 X 18 8 10	8 X 18 8 10	12, 8, AND 6 X 18 8 10
398, 433 OR 467	384, 403 OR 422	400, 435 OR 450	400, 421 OR 4420	400	400	400
NAILS	NAILS	NAILS	NAILS	NAILS ONLY	NAILS ONLY	NAILS ONLY
YES	YES	YES	YES	YES	YES	YES
5:12	5:12	4:12	4:12	3:12	3:12	3:12
30-LB. FELT	30-LB. FELT	30-LB. FELT	30-LB. FELT	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT
3:12	3:12	4:12	4:12	3:12	3:12	3:12
CONTACT ETERNIT	CONTACT ETERNIT			18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT
2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X			
X	X	X	X			
1984	1984	1984	1984	1980	1995	1997
50,000 +	50,000 +			850,000 +	150,000 +	50,000+
250 + 1	250 + 1	250 + 1	250+ 1	100 + NO	100 + NO	100 + NO
CLASS A	CLASS A			CLASS A AND B	CLASS A AND B	CLASS A AND B
ICBO, METRO-DADE COUNTY	ICBO, METRO-DADE COUNTY			BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES	BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES	BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES
R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	CUSTOMER SERVICE 800/9HARDIE TECHNICAL SERVICE 800/9HARDIE	CUSTOMER SERVICE 800/9HARDIE TECHNICAL SERVICE 800/9HARDIE	CUSTOMER SERVICE 800/9HARDIE TECHNICAL SERVICE 800/9HARDIE



## Fiber-Cement Roof Components

1. COMPANY NAME	LOUISIANA-PACIFIC, INC.	LOUISIANA-PACIFIC, INC.	MAXITILE, INC.	MAXITILE, INC.
2. PRODUCT NAME	NATURE GUARD CEMENT FIBER SHAKE	NATURE GUARD CEMENT FIBER SLATE	MAXITILE	MAXISLATE
3. STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)	X			
C. SIMULATED SLATE (specific type if applicable)		X		X
D. SIMULATED TILE (specific type if applicable)			X	
E. OTHER				
F. NUMBER OF COLORS AVAILABLE	4	4	6	2
4. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES	YES
5. MATERIAL COMPOSITION	ENGINEERED WOOD FIBER, PORTLAND CEMENT, FLY ASH	ENGINEERED WOOD FIBER, PORTLAND CEMENT, FLY ASH	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE
6. FACTORY-APPLIED COATING (yes/no)	YES	YES	YES	YES
7. DIMENSIONS AND COVERAGE				
A. DIMENSIONS (inches x inches)	12, 7, AND 5 X 22	12 X 22	37 X 24	12, 8, AND 6 X 22
B. EXPOSURE (inches)	10	10	30 X 20	10
C. HEADLAP (inches)	12	12	4	12
D. PIECES PER ROOF SQUARE	144	144	24	172
E. BUNDLES PER SQUARE	12	12		9.6
F. WEIGHT PER ROOF SQUARE (ambient temp.,pounds)	580	580	340	380
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS, STAPLES	NAILS, STAPLES	SCREWS, NAILS	NAILS
8. HIP/RIDGE PIECES AVAILABLE? (yes/no)	YES	YES	YES	YES
9. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS				
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION(inches per foot)	4:12	4:12	3:12	3:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	TYPE-30 FELT	TYPE-30 FELT	NA	TYPE-30 FELT
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION			TYPE-30 FELT	TYPE-30 FELT
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION(inches per foot)	3:12	3:12		
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT	TYPE-30 FELT		
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-15 FELT	TYPE-15 FELT	CLASS A FIRE RATING: TYPE-90 MINERAL SURFACE FELT	CLASS A FIRE RATING: TYPE-40 ORGANIC FELT
10. RECOMMENDED DECKS				
A. TYPES				
1. SOLID SHEATHING	X	X	X	X
2. SPACED SHEATHING	X	X		X
B. MATERIAL				
1. PLYWOOD/WOOD	X	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X	X
3. WAFERBOARD	X	X	X	X
4. OTHER (specify)			STEEL	STEEL
11. YEAR PRODUCT FIRST SOLD	1995	1997	1986	1992
12. NUMBER OF SQUARES INSTALLED	200,000	200,000	375,000	9,000
13. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)	200+	200+	300 +	300 +
B. DIRECT (number of regional service locations or no)	NO	NO	NO	NO
14. FIRE/WIND RATINGS				
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)	CLASS A	CLASS A	CLASS A AND B	CLASS A AND B
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS A	CLASS A	CLASS A AND B	CLASS A AND B
C. WIND UPLIFT RATING (per UL Standard 580)			CLASS 90	CLASS 90
15. ACCEPTED BY THE FOLLOWING CODES	ICBO, CITY OF LOS ANGELES	ICBO, CITY OF LOS ANGELES	ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO, SBCCI, HUD, CITY OF LOS ANGELES
16A. FOR SALES INFORMATION, CONTACT:	CUSTOMER SERVICE 800/579-8401	CUSTOMER SERVICE 800/579-8401	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE
16B. FOR TECHNICAL INFORMATION, CONTACT:	CUSTOMER SERVICE 800/579-8401	CUSTOMER SERVICE 800/579-8401	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE
17. SEE APPENDIX IF CHECKED			X	X

NA=not applicable

## Fiber-Cement Roof Components

MAXITILE, INC.	MAXITILE, INC.	RE-CON BUILDING PRODUCTS INC.	RE-CON BUILDING PRODUCTS INC.	RE-CON BUILDING PRODUCTS INC.	RE-CON BUILDING PRODUCTS INC.
MAXISHAKE	SUPERTILE	FIREFREE PLUS PMFC RUSTIC SHAKE	FIREFREE PLUS PMFC QUARRY SLATE	QUANTUM PLUS PMFC SHAKE PANEL	QUANTUM PLUS PMFC SLATE PANEL
X		X	X	X	X
	X				
4	2	3	4	2	1
YES	YES	NO	NO	NO	NO
CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS
YES	YES	YES	YES	YES	YES
12, 8, AND 6 X 22	72, 84, AND 126 X 42	12, 7, 5 X 22.5	12 X 22.5	48 X 11.5	48 X 11.5
10	66, 78, AND 118	10	10	9.5	9.5
12	6	12.5	12.5	2	2
	3.1, 4.75, AND 5.6	143	117	32	32
9.6		13	13	8	8
380	275	570	570	405	405
NAILS	SCREWS & WASHERS	COIL SIDING NAILS	COIL SIDING NAILS	COIL SIDING NAILS	COIL SIDING NAILS
YES	YES	YES	YES	YES	YES
3:12	1:12	4:12	4:12	4:12	4:12
TYPE-30 FELT		TYPE-30 FELT "SHAKELINER"	TYPE-30 FELT "SHAKELINER"		
TYPE-30 FELT	TYPE-30 FELT			TYPE-30 FELT	TYPE-30 FELT
		3:12	3:12	4:12	4:12
		TYPE-30 FELT "SHAKELINER"	TYPE-30 FELT "SHAKELINER"		
CLASS A FIRE RATING: TYPE-40 ORGANIC FELT	CLASS A FIRE RATING: TYPE-90 ORGANIC FELT	TYPE-30 FELT	TYPE-30 FELT		
X	X	X	X	X	X
X		X	X		
X	X	X	X	X	X
X	X	X	X	X	X
STEEL	STEEL				
1990	1986	1993	1993	1995	1995
45,000	10,000				
300 +	300 +	200 ±	200 ±	200 ±	200 ±
NO	NO	NO	NO	NO	NO
CLASS A AND B	CLASS A AND B	CLASS A	CLASS A	CLASS A	CLASS A
CLASS A AND B	CLASS A AND B	CLASS A	CLASS A	CLASS A	CLASS A
CLASS 90	CLASS 90				
ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO	ICBO, CITY OF LOS ANGELES NES	ICBO, CITY OF LOS ANGELES NES	ICBO NES	ICBO NES
T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	800/347-3373	800/347-3373	800/347-3373	800/347-3373
T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	541/349-1523	541/349-1523	541/349-1523	541/349-1523
X	X				

# Clay Tile

1. COMPANY NAME	ALTUSA/INTEC, CORP.		ALTUSA/INTEC, CORP.	CELADON
2. PRODUCT NAME	ALTUSA S		BARREL	CELADON CERAMIC SLATE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	X		X	X
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	NATURAL 4 NO NO	CERAMIC GLAZE 5 3 NO NO	NATURAL 5 3 NO NO	NATURAL SLATE NATURAL 5 NATIONAL NO NO
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)				YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	8 1/2 X 10 1/2 16 X 9 1/2 100 700		18 1/2 X 10 1/2 15 150 800	16 X 10 7/8 13 1/4 X 10 7/8 108 580
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 30-LB. FELT  2 1/2:12 30-LB. TIN CAP 90-LB. MOPPED		4:12 30- OR 40-LB FELT  4:12 2 30-LB. FELTS NAILED AND SOLID MOPPED	4:12 WINTERGUARD, 40-LB. FELT, OR 2 30-LB. FELTS  3:12 WINTERGUARD OR EQUIVALENT
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	STAINLESS STEEL SCREWS RING SHANK NAIL AND HURRICANE SPIKE		STAINLESS STEEL SCREWS RING SHANK NAIL AND HURRICANE SPIKE	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH SHANK COPPER NAILS NO. 8 OR 9 BRASS FLATHEAD SCREWS NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA
9. YEAR PRODUCT FIRST SOLD	1986		1986	1995
10. NUMBER OF SQUARES INSTALLED	543000		435000	
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	60		60	YES
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X  X		X  X	X  X
13. ACCEPTED BY THE FOLLOWING CODES	METRO-DADE , BROWARD COUNTY FL.		METRO-DADE , BROWARD COUNTY FL.	ICBO (4872), UBC, MIAMI-DADE COUNTY FL.
14A. FOR SALES INFORMATION, CONTACT:	305/471-5830		305/471-5830	800/CELSLATE
14B. FOR TECHNICAL INFORMATION, CONTACT:	FAX 305/471-5833		FAX 305/471-5833	800/CELSLATE
15. SEE APPENDIX IF CHECKED				X

NA=not applicable

# Clay Tile

DANIEL PLATT LTD.		DANIEL PLATT LTD.		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN	
TRITON		HANDCRAFTED		LINCOLN S-TILE		SPANISH S-TILE		CORDOVA		CORDOVA TAPERED CUSTOM	
				X		X		X		X	
X		X									
SMOOTH		SMOOTH AND RUSTIC		SMOOTH		SMOOTH		SMOOTH		TEXTURED	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
3		3		2	CUSTOM	1	CUSTOM	3	CUSTOM	3	CUSTOM
NATIONAL		NATIONAL		NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL		NATIONAL
YES		YES		NO	NO	YES	YES	YES	YES		YES
YES		YES		YES	YES	YES	YES	YES	YES		YES
YES		YES		YES		YES		YES		YES	
10 1/2 X 6 1/2		10 1/2 X 6 1/2		13 1/4 X 20		11 1/4 X 18		8 x 18		VARIED	
4 1/2 X 6 1/2		4 1/2 X 6 1/2		13 1/4 X 17		11 1/4 X 15		8 x 14		VARIED X 14	
550		550		81		107		190		VARIED	
1,550		1,550		975		900		900		VARIED	
8:12		8:12		3:12		4:12		4:12		4:12	
30-LB. FELT		30-LB. FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT	
				2:12		3:12		3:12		3:12	
				2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		30-LB FELT NAILED AND SOLID MOPPED	
STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM	
RING SHANK NAILS		RING SHANK NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS	
RING SHANK NAILS		RING SHANK NAILS		NA		NA		NA		TILE TIE OR NONCORROSIVE NAILS	
				NA		NA		NA		TILE TIE OR NONCORROSIVE NAILS	
RING SHANK NAILS		RING SHANK NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS	
				TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS	
BEFORE 1893		1996		1875		1875		1875		1875	
				50		50		50		50	
X		X		X		X		X		X	
				X		X		X		X	
X		X									
				ICBO (4642)		ICBO (4642)		ICBO (4642)		ICBO (4642)	
S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		800/964-2529		800/964-2529		800/964-2529		800/964-2529	
S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		800/964-2529		800/964-2529		800/964-2529		800/964-2529	

# Clay Tile

1. COMPANY NAME	GLADDING MCBEAN	GLADDING MCBEAN	GLADDING MCBEAN
2. PRODUCT NAME	LINCOLN INTERLOCKING	LINCOLN GLAZED SHINGLE	ITALIAN PAN AND ITALIAN COVER
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div></div> <div>X</div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>2 CUSTOM</div> <div>NATIONAL NATIONAL</div> <div>YES YES</div> <div>YES YES</div>	<div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>CUSTOM CUSTOM</div> <div>NATIONAL NATIONAL</div> <div>NO YES</div> <div>YES YES</div>	<div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>2 CUSTOM</div> <div>NATIONAL NATIONAL</div> <div>YES YES</div> <div>YES YES</div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div></div> <div>10 X 14</div> <div>9 X 11</div> <div>145</div> <div>950</div>	<div></div> <div>11 1/2 X 15</div> <div>10 3/4 X 12</div> <div>114</div> <div>850</div>	<div></div> <div>12 X 18</div> <div>12 X 14</div> <div>108</div> <div>1,040</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div> <div>4:12</div> <div>30- OR 40-LB FELT</div> <div></div> <div>3:12</div> <div>2 30-LB FELTS NAILED AND SOLID MOPPED</div>	<div></div> <div>4:12</div> <div>30- OR 40-LB FELT</div> <div></div> <div>3:12</div> <div>2 30-LB FELTS NAILED AND SOLID MOPPED</div>	<div></div> <div>4:12</div> <div>30- OR 40-LB FELT</div> <div></div> <div>3:12</div> <div>2 30-LB FELTS NAILED AND SOLID MOPPED</div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div></div> <div>STAINLESS STEEL FASTENING SYSTEM</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>NA</div> <div>NA</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div></div>	<div></div> <div>STAINLESS STEEL FASTENING SYSTEM</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>NA</div> <div>NA</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div></div>	<div></div> <div>STAINLESS STEEL FASTENING SYSTEM</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>NA</div> <div>NA</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div>TILE TIE OR NONCORROSIVE NAILS</div> <div></div>
9. YEAR PRODUCT FIRST SOLD	1875	1875	1875
10. NUMBER OF SQUARES INSTALLED			
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div> <div>50</div>	<div></div> <div>50</div>	<div></div> <div>50</div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div></div> <div>X</div> <div></div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div></div> <div>X</div>
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4642)	ICBO (4642)	ICBO (4642)
14A. FOR SALES INFORMATION, CONTACT:	800/964-2529	800/964-2529	800/964-2529
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/964-2529	800/964-2529	800/964-2529
15. SEE APPENDIX IF CHECKED			

NA=not applicable

# Clay Tile

GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		HEISTERHOLZ	
BERKELEY PAN AND BERKELEY COVER		ITALIAN PAN AND BERKELEY COVER		ITALIAN PAN AND CORDOVA COVER		BERKELEY PAN AND CORDOVA COVER		COTSWOLD		K21	
								X		X	
X		X		X							
SMOOTH		SMOOTH		SMOOTH		SMOOTH		TEXTURED			
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
2	CUSTOM	2	CUSTOM	2	CUSTOM	2	CUSTOM	3	CUSTOM	6	4
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL		NATIONAL	NATIONAL	NATIONAL
YES	YES	YES	YES	YES	YES	YES	YES		YES	NO	NO
YES	YES	YES	YES	YES	YES	YES	YES		YES	NO	NO
YES		YES		YES		YES		YES		YES	
8 1/2 X 18		8 1/2 X 18 12 X 18		12 X 18 8 X 18		8 1/2 X 18 8 X 18		6 1/2, 7 1/4, 8 1/2, & 9 X 14		17 X 10	
11 X 14		15 X 14		14 1/2 X 14		10 3/4 X 14		6-10		14 X 9	
187		138		142		192		308-185		143	
1,400		1,200		1,080		1,250		1,510-907		975	
4:12		4:12		4:12		4:12				4.5:12	
30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT				40-LB FELT	
3:12		3:12		3:12		3:12		3:12			
2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED			
STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS	
NA		NA		NA		NA		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS	
NA		NA		NA		NA		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS	
1875		1875		1875		1875		1875		1873	
										MILLIONS	
50		50		50		50		50		1	
										1	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4642)		ICBO (4642)		ICBO (4642)		ICBO (NO. 4642)				ICBO (5167), LOS ANGELES COUNTY	
800/964-2529		800/964-2529		800/964-2529		800/964-2529		800/964-2529		HG ROOFING	
800/964-2529		800/964-2529		800/964-2529		800/964-2529		800/964-2529		219/784-2006	
										HG ROOFING	
										219/784-2006	

# Clay Tile

1. COMPANY NAME	HEISTERHOLZ		HEISTERHOLZ		HUGUENOT FENAL	
2. PRODUCT NAME	HANSEAT 35		K 2000		VALOISE	
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div></div>		<div></div>		<div></div>	
	X		X		X	
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div></div>		<div></div>		<div></div>	
					SMOOTH	
	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
	6	4	6		4	3
	NATIONAL	NATIONAL	NATIONAL		NATIONAL	
	NO	NO	NO		NO	
	NO	NO	NO		NO	
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES		YES		YES	
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div></div>		<div></div>		<div></div>	
	17 X 10		17 X 10		12 1/2 X 8 1/2	
	14 X 9		14 X 9		10 1/2 X 7 1/2	
	142		142		190	
	1,036		1,095		950	
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div>		<div></div>		<div></div>	
	4.5:12		4.5:12		4:12	
	40-LB FELT		40-LB FELT		30-LB FELT	
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div></div>		<div></div>		<div></div>	
	NAILS/CLIPS		NAILS/CLIPS		STAINLESS STEEL SCREWS	
	NAILS/CLIPS		NAILS/CLIPS		RING SHANK NAILS AND CLIP	
	NAILS/CLIPS		NAILS/CLIPS		RING SHANK NAILS AND CLIP	
	NAILS/CLIPS		NAILS/CLIPS			
	NAILS/CLIPS		NAILS/CLIPS			
	NAILS/CLIPS		NAILS/CLIPS		STAINLESS STEEL SCREWS AND CLIPS	
9. YEAR PRODUCT FIRST SOLD	1873		1873		1982	
10. NUMBER OF SQUARES INSTALLED	MILLIONS		MILLIONS		880,000	
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div>		<div></div>		<div></div>	
	1		1		35	
	1		1			
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div></div>		<div></div>		<div></div>	
	X		X		X	
	X		X			
					X	
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (5167), LOS ANGELES COUNTY		ICBO (5167), LOS ANGELES COUNTY			
14A. FOR SALES INFORMATION, CONTACT:  14B. FOR TECHNICAL INFORMATION, CONTACT:	HG ROOFING 219/784-2006 HG ROOFING 219/784-2006		HG ROOFING 219/784-2006 HG ROOFING 219/784-2006		S. MATTHEWS 905/627-4035 S. MATTHEWS 905/627-4035	
15. SEE APPENDIX IF CHECKED						

NA=not applicable

# Clay Tile

HUGUENOT FENAL		HUGUENOT FENAL		HUGUENOT FENAL		HUGUENOT FENAL		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.	
BEAUVOISE		ROMANE		H 14		PHALEMPIN		AMERICANA		XL AMERICANA	
		X		FRENCH BARREL							
						X		X		X	
X											
RUSTIC		SMOOTH		SMOOTH		TEXTURED		TREE BARK/SANDED		TREE BARK	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
2		3		3		7		1	28	1	28
NATIONAL		NATIONAL		NATIONAL		NATIONAL		NATIONAL	NATIONAL	NATIONAL	NATIONAL
NO		NO		NO		NO		NO	YES	NO	YES
NO		NO		NO		NO		YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
12 1/2 X 9 1/4		16 3/4 X 11		17 X 10		10 1/2 X 6 1/2		14 X 9		16 X 10 7/8	
10 X 8 1/2		13 3/4 X 8 1/2		14 X 8 1/2		4 1/4 X 6 1/2		11 X 8 1/4		13 X 10 1/8	
185		120		122		550		158		109	
925		950		875		1350		800		750	
4:12		4:12		4:12		6:12		3:12		0.13333333	
30-LB FELT		30-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT	
								< 3:12		< 3:12	
								WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS	
RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS	
RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		RING SHANK NAILS AND CLIP		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS	
								NA		NA	
								NA		NA	
STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS AND CLIPS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
								NA		NA	
1981		N/A		N/A		N/A		1948		1996	
105,000		N/A		N/A		N/A		>500,000		>10,000	
35		N/A		N/A		N/A		10		10	
								58		58	
X		X		X		X		X		X	
		X									
				X							
X						X		X		X	
								ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL	
S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		800/945-8453		800/945-8453	
S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		800/945-8453		800/945-8453	
								X		X	



# Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.
2. PRODUCT NAME	ANTIQUE	BRITTANY	CALAIS
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div><div></div><div></div><div></div><div></div><div>X</div><div></div></div>	<div><div></div><div></div><div></div><div></div><div>X</div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div>X</div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div><div>HAND TREATED IRREGULAR</div><div><div>NATURAL</div><div>1</div><div>NATIONAL</div><div>NO</div><div>YES</div></div><div><div>CERAMIC GLAZE</div><div>28</div><div>NATIONAL</div><div>YES</div><div>YES</div></div></div>	<div><div>SANDED AND INDENTED</div><div><div>NATURAL</div><div>1</div><div>NATIONAL</div><div>NO</div><div>YES</div></div><div><div>CERAMIC GLAZE</div><div>28</div><div>NATIONAL</div><div>YES</div><div>YES</div></div></div>	<div><div>CRATERED/SANDED</div><div><div>NATURAL GLAZE</div><div>1</div><div>NATIONAL</div><div>NO</div><div>YES</div></div><div><div>CERAMIC</div><div>28</div><div>NATIONAL</div><div>YES</div><div>YES</div></div></div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div><div>12 X 7</div><div>5 X 7</div><div>412</div><div>1,600</div></div>	<div><div>12 X 7</div><div>5 X 7</div><div>412</div><div>1,840</div></div>	<div><div>15 X 7</div><div>6 1/2 X 7</div><div>317</div><div>1,600</div></div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div><div>5:12</div><div>40-LB FELT</div><div>&lt; 5:12</div><div>WINTERGUARD OR BUILT-UP ROOFING</div></div>	<div><div>5:12</div><div>40-LB FELT</div><div>&lt; 5:12</div><div>WINTERGUARD OR BUILT-UP ROOFING</div></div>	<div><div>5:12</div><div>40-LB FELT</div><div>&lt; 5:12</div><div>WINTERGUARD OR BUILT-UP ROOFING</div></div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div><div>STAINLESS STEEL SHEET METAL SCREWS</div><div>11-GAUGE RING SHANK COPPER NAILS</div><div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div><div>NA</div><div>NA</div><div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div><div>NA</div></div>	<div><div>STAINLESS STEEL SHEET METAL SCREWS</div><div>11-GAUGE RING SHANK COPPER NAILS</div><div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div><div>NA</div><div>NA</div><div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div><div>NA</div></div>	<div><div>STAINLESS STEEL SHEET METAL SCREWS</div><div>11-GAUGE RING SHANK COPPER NAILS</div><div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div><div>NA</div><div>NA</div><div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div><div>NA</div></div>
9. YEAR PRODUCT FIRST SOLD	1900	1900	1993
10. NUMBER OF SQUARES INSTALLED	>5,000	>50,000	< 5,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div><div>10</div><div>58</div></div>	<div><div>10</div><div>58</div></div>	<div><div>10</div><div>58</div></div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div><div>X</div><div></div><div></div><div>X</div></div>	<div><div>X</div><div></div><div></div><div>X</div></div>	<div><div>X</div><div></div><div></div><div>X</div></div>
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
15. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Clay Tile

LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.	
CLASSIC		XL CLASSIC		COFFEYVILLE ENGLISH		COLONIAL		CONOSERA		CRUDE	
						X		X		X	
SMOOTH		SMOOTH		SMOOTH		SANDED & INDENTED		SMOOTH/SANDED		SANDED & INDENTED	
NATURAL	CERAMIC GLAZE	NATURAL GLAZE	CERAMIC	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1	28	1	28	1	28	1	28	1	28	1	28
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
14 X 9		16 X 10 7/8		13 1/4 X 8 3/4		14 5/8 X 7 3/8		13 X 8 3/4		12 X 6	
11 X 8 1/4		13 X 10 1/8		10 1/8 X 7 3/4		6 5/6 X 7 3/8		10 3/4 X 7 3/4		5 X 6	
158		109		182		310		173		480	
800		750		810		1,675		1,350		1,850	
3:12		0.133333333		3:12		5:12		3:12		5:12	
40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT	
< 3:12		< 3:12		< 3:12		<5:12		< 3:12		<5:12	
WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1948		1996		1920		1950		1880		1900	
>500,000		>10,000		>50,000		>5,000		>10,000		>5,000	
10		10		10		10		10		10	
58		58		58		58		58		58	
X		X		X		X		X		X	
								X			
X		X		X		X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
X		X		X		X		X		X	

# Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.
2. PRODUCT NAME	18" CUBANA	DESIGNER	EARLY AMERICAN OLD TYPE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div></div> <div>X</div> <div></div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div></div> <div>SMOOTH/SANDED</div> <div>NATURAL</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>YES</div>	<div></div> <div>HAND-SPLIT SHAKE/SANDED</div> <div>NATURAL</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>YES</div>	<div></div> <div>TREE BARK/SANDED</div> <div>NATURAL</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>YES</div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div></div> <div>18 X 8 1/4 TAPERS TO 7</div> <div>15 X 15 3/8</div> <div>166</div> <div>1,050</div>	<div></div> <div>14 X 9</div> <div>11 X 8 1/4</div> <div>158</div> <div>800</div>	<div></div> <div>13 3/4 X 8 5/8</div> <div>10 3/4 X 7 7/8</div> <div>173</div> <div>762</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div> <div>5:12</div> <div>40-LB FELT</div> <div></div> <div>&lt;5:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>	<div></div> <div>3:12</div> <div>40-LB FELT</div> <div></div> <div>&lt; 3:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>	<div></div> <div>3:12</div> <div>40-LB FELT</div> <div></div> <div>&lt; 3:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>
9. YEAR PRODUCT FIRST SOLD	1900	1910	1900
10. NUMBER OF SQUARES INSTALLED	>5,000	>100,000	>250,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div> <div>10</div> <div>58</div>	<div></div> <div>10</div> <div>58</div>	<div></div> <div>10</div> <div>58</div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div></div> <div>X</div> <div></div> <div></div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div></div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div></div> <div></div> <div>X</div>
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
15. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Clay Tile

LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.	
FRENCH		GEORGIAN		GREEK		IMPERIAL		JAMESTOWN		LANAI	
		X				X		X		X	
				X							
DEEP FLUTED/SANDED		HAND SPLIT SHAKE/SANDED		SMOOTH		SMOOTH/SANDED		HAND-SPLIT SHAKE		SANDED	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1	28	1	28	1	28	1	28	1	28	1	28
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
16 1/4 X 9		15 X 8		12 3/4 X P 9 3/34 X C 6 1/2		15 X 10		11 X 8 3/4		14 X 9	
13 3/8 X 8 1/8		6 1/2 X 8		10 X 6		12 X 9 1/4		8 X 8		11 X 8 1/4	
133		276		240		129		225		158	
1025		1,475		1,250		860		900		800	
3:12		5:12		5:12		3:12		3:12		3:12	
40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT	
< 3:12		< 5:12		<5:12		< 3:12		< 3:12		< 3:12	
WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1890		1900		1900		1980		1910		1948	
>500,000		>20,000		>5,000		>5,000		>250,000		>500,000	
10		10		10		10		10		10	
58		58		58		58		58		58	
X		X		X		X		X		X	
X				X							
		X				X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
X		X		X		X		X		X	

# Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.
2. PRODUCT NAME	XL LANAI	LIGHT WEIGHT INTERLOCKING	14 1/4" MISSION
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>	<div></div> <div></div> <div></div> <div></div> <div>X</div> <div></div>	<div></div> <div></div> <div>X</div> <div></div> <div></div> <div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div></div> <div>SANDED</div> <div>NATURAL GLAZE</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>CERAMIC</div> <div>28</div> <div>NATIONAL</div> <div>YES</div> <div>YES</div>	<div></div> <div>SMOOTH OR SANDED</div> <div>NATURAL</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>CERAMIC GLAZE</div> <div>28</div> <div>NATIONAL</div> <div>YES</div> <div>YES</div>	<div></div> <div>FINE MACHINE SCORED</div> <div>NATURAL</div> <div>1</div> <div>NATIONAL</div> <div>NO</div> <div>YES</div> <div>CERAMIC GLAZE</div> <div>28</div> <div>NATIONAL</div> <div>YES</div> <div>YES</div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div></div> <div>16 X 10 7/8</div> <div>13 X 10 1/8</div> <div>109</div> <div>750</div>	<div></div> <div>13 3/4 X 8 5/8</div> <div>10 3/4 X 7 7/8</div> <div>173</div> <div>762</div>	<div></div> <div>14 1/4 X 8</div> <div>11 1/4 X 5 3/4</div> <div>225</div> <div>1,140</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div> <div>0.13333333</div> <div>40-LB FELT</div> <div></div> <div>&lt; 3:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>	<div></div> <div>3:12</div> <div>40-LB FELT</div> <div></div> <div>&lt; 3:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>	<div></div> <div>5:12</div> <div>40-LB FELT</div> <div></div> <div>&lt;5:12</div> <div>WINTERGUARD OR BUILT-UP ROOFING</div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div></div> <div>STAINLESS STEEL SHEET METAL SCREWS</div> <div>11-GAUGE RING SHANK COPPER NAILS</div> <div>11-GAUGE SMOOTH-SHANK COPPER NAILS</div> <div>NA</div> <div>NA</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>
9. YEAR PRODUCT FIRST SOLD	1996	1900	1900
10. NUMBER OF SQUARES INSTALLED	>10,000	>100,000	>10,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div> <div>10</div> <div>58</div>	<div></div> <div>10</div> <div>58</div>	<div></div> <div>10</div> <div>58</div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div></div> <div>X</div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div>X</div>	<div></div> <div>X</div> <div></div> <div>X</div>
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
15. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Clay Tile

LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.	
16" MISSION		16" TAPERED MISSION		PALM BEACH TAPERED MISSION		NORMAN		PROVINCIAL		ROMAN	
X				X				X			
		X				X					
										X	
FINE-MACHINE SCORED/SANDED		FINE MACHINE SCORED		SMOOTH/SANDED		WEATHERED/CRATERED		FINE MACHINE SCORED/SANDED		SMOOTH	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1	28	1	28	1	28	0	1	1	28	1	28
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
NO	YES	NO	YES	NO	YES	NO	NO	NO	YES	NO	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
16 X 8		16 X 7 TAPERS TO 4 3/4		18 3/8 X 8 TAPERS TO 6 7/16		15 X 7		15 X 7		12 3/4 X P 9 3/4 X C 6 1/2	
13 X 5 3/4		13 X 7		15 3/8		6 1/2 X 7		6 1/2 X 7		10 X 6	
222		200		164		317		317		240	
1,375		1,230		1,100		1,190		1,430		1,250	
5:12		5:12		0.175		5:12		5:12		5:12	
40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT	
< 5:12		< 5:12		< 4:12		< 5:12		< 5:12		< 5:12	
WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1900		1900		1997		1920		1920		1900	
>500,000		>500,000		>2,000		>100,000		>50,000		>5,000	
10		10		10		10		10		10	
58		58		58		58		58		58	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
X		X		X		X		X		X	

# Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.
2. PRODUCT NAME	18" SBM	CLOSED SHINGLE	FLAT SLAB SHINGLE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
9. YEAR PRODUCT FIRST SOLD	1996	1900	1900
10. NUMBER OF SQUARES INSTALLED	>10,000	>250,000	>5,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div><div></div><div></div><div></div><div></div><div></div><div></div></div>
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
15. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

# Clay Tile

LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		M.C.A CLAY TILE	
SPANISH		18" SPANISH		TILESTONE		WILLIAMSBURG		XL WILLIAMSBURG		ONE-PIECE "S"	
X		X								X	
				X		X		X			
SMOOTH/SANDED		SMOOTH/SANDED		STONE		HAND-SPLIT SHAKE/SANDED		HAND SPLIT SHAKE		SMOOTH	
NATURAL	CERAMIC GLAZE	NATURAL GLAZE	CERAMIC	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL GLAZE	CERAMIC	NATURAL	CERAMIC GLAZE
1	28	1	28	1	28	1	28	1	28	15	12
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
13 1/4 X 9 3/4		18 3/8 X 9 3/4		11 X 8 3/4		14 X 9		16 X 10 7/8		19 X 14	
10 1/4 X 8 1/4		15 X 3/8 8 1/4		8 X 8		11 X 8 1/4		13 X 10 1/8		16 X 12	
171		114		225		158		109		75	
900		800		900		800		750		788	
4:12		0.175		3:12		3:12		0.133333333		3:12	
40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		30-LB FELT	
< 4:12		< 4:12		< 3:12		< 3:12		< 3:12		< 3:12	
WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		2 30-LB FELTS MOPPED BETWEEN LAYERS	
STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		SCREW NAILS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		RING SHANK NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		SMOOTH SHANK NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		RING SHANK NAILS	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1900		1996		1900		1925		1996		1985	
>500,000		>10,000		>10,000		>500,000		>10,000		1000000	
10		10		10		10		10		240	
58		58		58		58		58		NO	
X		X		X		X		X		X	
X		X								X	
				X		X		X			
ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4202), LOS ANGELES COUNTY, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/736-6221	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/736-6221	
X		X		X		X		X			



# Clay Tile

1. COMPANY NAME	M.C.A CLAY TILE	M.C.A CLAY TILE	M.C.A CLAY TILE
2. PRODUCT NAME	STRAIGHT BARREL MISSION	CLASSIC TAPERED MISSION	ORIENTAL
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>X</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>X</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>15 12</div> <div>NATIONAL NATIONAL</div> <div>YES YES</div> <div>YES YES</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>15 12</div> <div>NATIONAL NATIONAL</div> <div>YES YES</div> <div>YES YES</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SMOOTH</div> <div>NATURAL CERAMIC GLAZE</div> <div>1 10</div> <div>NATIONAL NATIONAL</div> <div>YES YES</div> <div>NO NO</div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>19 X 10</div> <div>16 X 13.5</div> <div>134</div> <div>1,005</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>19 X 7 1/4 TAPERS TO 6 1/4</div> <div>16 X 10</div> <div>180</div> <div>900</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>12 X 12</div> <div>10 1/2 X 9 1/2</div> <div>144</div> <div>864</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>3:12</div> <div>30-LB FELT</div> <div>&lt; 3:12</div> <div>2 30-LB FELTS MOPPED BETWEEN LAYERS</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>3:12</div> <div>30-LB FELT</div> <div>&lt; 3:12</div> <div>2 30-LB FELTS MOPPED BETWEEN LAYERS</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>3:12</div> <div>30-LB FELT</div> <div>&lt; 3:12</div> <div>2 30-LB FELTS MOPPED BETWEEN LAYERS</div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SCREW NAILS</div> <div>RING SHANK NAILS</div> <div>SMOOTH SHANK NAILS</div> <div>NA</div> <div>RING SHANK NAILS</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SCREW NAILS</div> <div>RING SHANK NAILS</div> <div>SMOOTH SHANK NAILS</div> <div>NA</div> <div>RING SHANK NAILS</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>SCREW NAILS</div> <div>RING SHANK NAILS</div> <div>SMOOTH SHANK NAILS</div> <div>NA</div> <div>RING SHANK NAILS</div> <div>SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS</div> <div>NA</div>
9. YEAR PRODUCT FIRST SOLD	1985	1985	1902
10. NUMBER OF SQUARES INSTALLED	500,000	< 10,000	>1 MILLION
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>240</div> <div>NO</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>240</div> <div>NO</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>240</div> <div>NO</div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>X</div> <div>X</div> <div>X</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>X</div> <div>X</div> <div>X</div>	<div><div></div><div></div><div></div><div></div><div></div><div></div></div> <div>X</div> <div>X</div> <div>X</div>
13. ACCEPTED BY THE FOLLOWING CODES	I CBO (4202) LOS ANGELES COUNTY	I CBO (4202) LOS ANGELES COUNTY	I CBO (4202) LOS ANGELES COUNTY
14A. FOR SALES INFORMATION, CONTACT:	800/736-6221	800/736-6221	800/736-6221
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/736-6221	800/736-6221	800/736-6221
15. SEE APPENDIX IF CHECKED			X

NA=not applicable

# Clay Tile

M.C.A CLAY TILE		M.C.A CLAY TILE		SANDTOFT ROOF TILES		SANDTOFT ROOF TILES		SANDTOFT ROOF TILES		SANDTOFT ROOF TILES	
MF108 FLAT		TURRET TILE		COUNTY PAN TILE		EUROPA		FLEMISH		GOXHILL HANDMADE	
				X		X		X			
		X								X	
X											

Clay Tile

NA=not applicable

# Clay Tile

SANTAFÉ TILE CORP.		TBF TILE		TBF TILE		TBF TILE		TBF		TBF	
SANTAFÉ "ROYAL"		ROMANE		ROMAN CANAL		CANAL 40		CANAL 50		RESIDENCE	
		X		X						BARREL TILE	
						X		X			
X											
SMOOTH/RUSTIC		SMOOTH		SMOOTH		SMOOTH		SMOOTH		SMOOTH AND RUSTIC	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1	15	13	26	16	26	15	26	15	26	7	26
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
YES		YES		YES		YES		YES		YES	
18 X 11		17 X 11 1/4		17 3/4 X 11 5/8		16 X 7 1/2		18 1/2 X 7 1/4		12 1/2 X 16	
15 X 10		14 1/4 X 8 1/4		15 X 8 1/2		10 1/2		14 1/2		10 X 15	
96		121		112		316		232		96	
672		950		950		1350		1,150		950	
4:12		4:12		4:12		4:12		4:12		4:12	
30 OR 40-LB. FELT		30-LB. FELT		30-LB. FELT		40-LB. FELT		40-LB FELT		40-LB FELT	
3:12											
2 30-LB. FELTS MOPPED BETWEEN LAYERS											
STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS		STAINLESS STEEL		STAINLESS STEEL	
RING SHANK NAIL AND HURRICANE SPIKE		RING SHANK		RING SHANK NAIL		RING SHANK NAIL		RINK SANK		RING SHANK	
SMOOTH SHANK NAILS											
NA		NA		NA		NA					
RING SHANK NAILS											
SPIRAL THREAD STAINLESS											
1954		1950		1956		1960		1960		1970	
75,000		N/A		N/A		N/A		N/A		N/A	
								X		X	
X		X		X		X		X		X	
X		X		X		X		X			
										X	
METRO-DADE COUNTY, FL		METRO-DADE COUNTY, FL		METRO-DADE COUNTY, FL		METRO-DADE COUNTY, FL					
D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035	
D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002		S. MATTHEWS 905/527-4035		S. MATTHEWS 905/627-4035	

# Clay Tile

1. COMPANY NAME	TBF	TUILERIE DE PONTIGNY ALEONARD	TUILERIE DE PONTIGNY ALEONARD
2. PRODUCT NAME	LA GAULOISE	MONUMENT HISTORIQUE	GLAZED
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL, ONE PIECE B. STRAIGHT BARREL MISSION, TWO PIECE C. TAPERED MISSION, TWO PIECE D. FLAT, ONE PIECE E. FLAT, INTERLOCKING, ONE PIECE F. FLAT PAN AND COVER, TWO PIECE	<div><div></div><div></div><div></div><div></div><div>X</div><div></div></div>	<div><div></div><div></div><div></div><div>X</div><div></div><div></div></div>	<div><div></div><div></div><div></div><div>X</div><div></div><div></div></div>
4. TILE DESCRIPTION A. TEXTURE (specify or NA) B. FINISHES  1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)	<div><div>SMOOTH</div><div>NATURAL</div><div>2</div><div>NATIONAL</div><div>NO</div><div>NO</div></div> <div><div>CERAMIC GLAZE</div><div>2</div><div>NATIONAL</div><div>O</div><div>NO</div></div>	<div><div>N/A</div><div>NATURAL</div><div>3</div><div>NATIONAL</div><div>YES</div><div>YES</div></div> <div><div>CERAMIC GLAZE</div><div></div><div></div><div></div><div></div><div></div></div>	<div><div>N/A</div><div>NATURAL</div><div>14</div><div>NATIONAL</div><div>YES</div><div>YES</div></div> <div><div>CERAMIC GLAZE</div><div></div><div></div><div></div><div></div><div></div></div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	<div><div>16 1/2 X 10</div><div>12 1/2 X 8 1/2</div><div>140</div><div>1,050</div></div>	<div><div>13 X 6 3/4</div><div>5 1/2 X 6 3/4</div><div>390</div><div>1,500</div></div>	<div><div>11 3/4 X 6 3/4</div><div>4 3/4 X 6 3/4</div><div>430</div><div>1,570</div></div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div><div>4:12</div><div>40-LB FELT</div><div></div><div></div></div>	<div><div>10:12</div><div>40-LB FELT</div><div></div><div></div></div>	<div><div>10:12</div><div>40-LB FELT</div><div></div><div></div></div>
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/NAILABLE CONCRETE  G. OTHER (specify)	<div><div>STAINLESS STEEL</div><div>RING SHANK</div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div>BATTEN SEAM</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div>BATTEN SEAM</div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>
9. YEAR PRODUCT FIRST SOLD	1996	1800	1800
10. NUMBER OF SQUARES INSTALLED	N/A	N/A	N/A
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div><div>X</div></div>	<div><div>X</div></div>	<div><div>X</div></div>
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action  TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	<div><div>X</div><div></div><div></div><div>X</div></div>	<div><div>X</div><div></div><div></div><div>X</div></div>	<div><div>X</div><div></div><div></div><div>X</div></div>
13. ACCEPTED BY THE FOLLOWING CODES			
14A. FOR SALES INFORMATION, CONTACT:	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035
14B. FOR TECHNICAL INFORMATION, CONTACT:	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035
15. SEE APPENDIX IF CHECKED			

NA=not applicable

# Clay Tile

TUILERIE DE PONTIGNY ALEONARD		U.S. TILE CO.		U.S. TILE CO.	
PATRIMONY		CLAY MAX TWIN-S		TAPERED MISSION TILE	
X				X	
		X			
N/A		SMOOTH AND RUSTIC		SMOOTH AND RUSTIC	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
3		6		17	
NATIONAL		NATIONAL		REGIONAL	REGIONAL
NO				YES	NO
YES				YES	NO
YES		YES		YES	
10 1/2 X 6 1/2		13 X 15		8 X 18	
4 1/4 X 6 1/2		12 X 15		8 X 15	
550		88		172	
1,500		580		1,000	
10:12		3:12		3:12	
40-LB FELT		TYPE-30 FELT		TYPE-30 FELT	
		<3:12		<3:12	
		BUILT-UP ROOF		BUILT-UP ROOF	
BATTEN SEAM		TILE TIE SYSTEM		TILE TIE SYSTEM	
		NAILS		NAILS	
		NAILS		NAILS	
		NAILS		NAILS	
		NAILS		NAILS	
		TILE TIE SYSTEM		TILE TIE SYSTEM	
1800		1995		1974	
N/A		600,000		1.6 MILLION	
X		170 NO		170 NO	
X		X		X	
		X		X	
X					
		ICBO (3523)		ICBO (3523)	
S. MATTHEWS 905/627-4035		909/737-0200		909/737-0200	
S. MATTHEWS 905/627-4035		909/737-0200		909/737-0200	

# Concrete Tile

1. COMPANY NAME	AUBURN TILE INC.	AUBURN TILE INC.	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	AUBURN TILE REGULAR WEIGHT	AUBURN LITE 500 SERIES	GOLD RUSH SERIES ESPAÑA MISSION	100 SERIES ESPAÑA MISSION
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED			X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	THROUGH-COLOR 30 REGIONAL YES	THROUGH-COLOR 30 YES	NO SURFACE NATIONAL YES	NO SURFACE NATIONAL YES
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)				
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	15 X 9 1/4 3 12 145 1,050	15 X 9 1/4 3 12 145 783	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	3:12 2 30-LB. FELTS NA	3:12 2 30-LB. FELTS NA	3:12 30-LB FELT < 3:12	3:12 30-LB FELT < 3:12
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	X X	X X	X X	X X
9. YEAR PRODUCT FIRST SOLD				
10. NUMBER OF SQUARES INSTALLED				
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	150 NO	150 NO	150 NO	150 NO
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2310)	ICBO (2310)	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	J. MANSOOR 909/984-2841 U. HELFERICH 909/984-2841	J. MANSOOR 909/984-2841 U. HELFERICH 909/984-2841	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438
14. SEE APPENDIX IF CHECKED				

NA=not applicable

# Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
COLONIAL SLATE	CHATEAU	SUPERSHAKE	CLASSIC CAPRI	SIERRA SHAKE	BLENDED MISSION	BLENDED SHINGLE
			X		X	
X						X
	X	X		X		
NO	YES	YES	NO	YES	NO	YES
SURFACE	SURFACE	THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
YES	YES	YES	YES	YES	YES	YES
17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8
3	3	3	3	3	3	3
14	14	14	14	14	14	14
89	93.5	93.5	93.5	93.5	93.5	93.5
900	950	950	950	950	950	950
3:12	3:12	3:12	3:12	3:12	3:12	3:12
30-LB FELT	30-LB FELT	30-LB FELT	30-LB FELT	30-LB FELT	30-LB FELT	30-LB FELT
< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12
2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
< 3:12 AND > 7:12	< 3:12 AND > 7:12	< 3:12 AND > 7:12	< 3:12 AND > 7:12	< 3:12 AND > 7:12	< 3:12 AND > 7:12	< 3:12 AND > 7:12
NA	NA	NA	NA	NA	NA	NA
3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12
> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12
12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER
3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE
150	150	150	150	150	150	150
NO	NO	NO	NO	NO	NO	NO
ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA
B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438



# Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	SANTA FE MISSION	SANTA FE SHINGLE	CLASSIC MISSION	TAOS MISSION
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	X	X	X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	NO THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)				
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	3:12 30-LB FELT  3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT  3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT  3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT  3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	X X X X 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X X X X 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X X X X 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X X X X 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE
9. YEAR PRODUCT FIRST SOLD				
10. NUMBER OF SQUARES INSTALLED				
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	150 NO	150 NO	150 NO	150 NO
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438
14. SEE APPENDIX IF CHECKED				

NA=not applicable

# Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
TAOS SHINGLE	COUNTRY SLATE	COUNTY SHINGLE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE
			X	X		X
X	X	X			X	
YES	YES		NO	NO	NO	NO
THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR	SURFACE	SURFACE	SURFACE	THROUGH-COLOR
NATIONAL YES	NATIONAL YES	NATIONAL YES	REGIONAL NO	REGIONAL NO	REGIONAL NO	REGIONAL NO
			YES	YES	YES	YES
17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8	17 X 12 3/8
3	3	3	3	3	3	3
14	14	14	14	14	14	14
89	93.5	93.5	89	93.5	94	89
890	1,035	1,035	595	595	650	595
3:12	3:12	3:12	3:12	3:12	3:12	3:12
30-LB FELT	30-LB FELT	30-LB FELT	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT
< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12
2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA	< 3:12 AND > 7:12 NA
3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12	3:12 TO 5:12
> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12	> 5:12 TO 12:12
12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER
3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE	3:12 AND ABOVE
150 NO	150 NO	150 NO	150 NO	150 NO	150 NO	150 NO
ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA
B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	B. SESULKA 909/822-4407 J. VANDEWATER 909/428-4438	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438
					X	

# Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	COUNTRY SPLIT-SHINGLE	COUNTRY SPLIT-SHAKE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	<div></div> <div>X</div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div>X</div> <div></div> <div></div>	<div></div> <div></div> <div>X</div> <div></div> <div></div>	<div></div> <div></div> <div>X</div> <div></div> <div></div>
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	<div></div> <div>NO</div> <div>THROUGH-COLOR</div> <div></div> <div>REGIONAL</div> <div>NO</div>	<div></div> <div>NO</div> <div>THROUGH-COLOR</div> <div></div> <div>REGIONAL</div> <div>NO</div>	<div></div> <div></div> <div>THROUGH-COLOR</div> <div></div> <div>NATIONAL</div> <div></div>	<div></div> <div></div> <div>THROUGH-COLOR</div> <div></div> <div>NATIONAL</div> <div></div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	<div></div> <div>17 X 12 3/8</div> <div>3</div> <div>14</div> <div>93.5</div> <div>595</div>	<div></div> <div>17 X 12 3/8</div> <div>3</div> <div>14</div> <div>94</div> <div>650</div>	<div></div> <div>17 X 12 3/8</div> <div>3</div> <div>14</div> <div>93.5</div> <div>1,035</div>	<div></div> <div>17 X 12 3/8</div> <div>3</div> <div>14</div> <div>93.5</div> <div>1,035</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div> <div>3:12</div> <div>TYPE-30 FELT</div> <div></div> <div>&lt; 3:12</div> <div>2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS</div>	<div></div> <div>3:12</div> <div>TYPE-30 FELT</div> <div></div> <div>&lt; 3:12</div> <div>2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS</div>	<div></div> <div>3:12</div> <div>TYPE-30 FELT</div> <div></div> <div>&lt; 3:12</div> <div>2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS</div>	<div></div> <div>3:12</div> <div>TYPE-30 FELT</div> <div></div> <div>&lt; 3:12</div> <div>2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS</div>
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	<div></div> <div>X</div> <div></div> <div>X</div> <div>X</div> <div>X</div> <div></div> <div></div> <div>&lt; 3:12 AND &gt; 7:12</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div></div> <div></div> <div>3:12 AND ABOVE</div>	<div></div> <div>X</div> <div></div> <div>X</div> <div>X</div> <div>X</div> <div></div> <div></div> <div>&lt; 3:12 AND &gt; 7:12</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div></div> <div></div> <div>3:12 AND ABOVE</div>	<div></div> <div>X</div> <div></div> <div>X</div> <div>X</div> <div>X</div> <div></div> <div></div> <div>&lt; 3:12 AND &gt; 7:12</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div></div> <div></div> <div>3:12 AND ABOVE</div>	<div></div> <div>X</div> <div></div> <div>X</div> <div>X</div> <div>X</div> <div></div> <div></div> <div>&lt; 3:12 AND &gt; 7:12</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div></div> <div></div> <div>3:12 AND ABOVE</div>
9. YEAR PRODUCT FIRST SOLD				
10. NUMBER OF SQUARES INSTALLED				
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div> <div>150</div> <div>NO</div>	<div></div> <div>150</div> <div>NO</div>	<div></div> <div>150</div> <div>NO</div>	<div></div> <div>150</div> <div>NO</div>
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA
13A. FOR SALES INFORMATION, CONTACT:	P. SULLIVAN 909/822-4407	P. SULLIVAN 909/822-4407	B. SESULKA 909/822-4407	B. SESULKA 909/822-4407
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438
14. SEE APPENDIX IF CHECKED		X		

NA=not applicable

# Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
MISSION "S"	MISSION "S" DESERT	VILLA	VILLA	PREMIUM DURALITE VILLA	SHAKE	SHAKE
X	X	X	X	X		
					X	X
NO	NO	NO	NO	NO	YES	YES
SURFACE	THROUGH-COLOR	SURFACE	THROUGH-COLOR	THROUGH-COLOR	SURFACE	THROUGH-COLOR
60	30	30	18	6	12	15
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL
YES	YES	YES	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES
16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13
3	3	3	3	3	3	3
13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2
90	90	90	90	90	90	90
900	900	800	800	540	900	900
3:12	3:12	3:12	3:12	3:12	3:12	3:12
30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT
< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12
2 30-LB FELTS NAILED, SOLID MOPPED	2 30-LB FELTS NAILED, SOLID MOPPED	2 30-LB FELTS NAILED, SOLID MOPPED	2 30-LB FELTS NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
< 3:12 AND > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12
NA	NA	NA	NA	NA	NA	NA
3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12		3:12 TO > 5:12	3:12 TO > 5:12
5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12		5:12 TO 12:12	5:12 TO 12:12
12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	ALL	12:12 AND OVER	12:12 AND OVER
ALL	ALL	ALL	ALL	ALL	ALL	ALL
1982	1982	1968	1968			
> 3 MILLION	> 1 MILLION	> 2 MILLION	> 1 MILLION	> 400,000	> 2,000,000	> 2,000,000
8	8	10	10	2	10	10
ICBO, SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093)	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY
D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605

# Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	PREMIUM DURALITE SHAKE	CLASSIC 100	CLASSIC 100	SLATE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	X	X	X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	YES THROUGH-COLOR 3 NATIONAL YES	NO SURFACE 8 NATIONAL NO	NO THROUGH-COLOR 6 NATIONAL NO	NO SURFACE 5 NATIONAL YES
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	16 1/2 X 13 3 13 1/2 90 740	16 1/2 X 13 3 13 1/2 90 900	16 1/2 X 13 3 13 1/2 90 900	16 1/2 X 13 3 13 1/2 90 900
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	3:12 30-OR 40-LB FELT  30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	X  X X   3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER  ALL	X  X X   3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER  ALL	X  X X   3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER  ALL	X  X X   3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER  ALL
9. YEAR PRODUCT FIRST SOLD				
10. NUMBER OF SQUARES INSTALLED	> 200,000	> 200,000	> 200,000	> 500,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	2	1	1	10
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2093)	ICBO (2093), SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO-DADE COUNTY
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605
14. SEE APPENDIX IF CHECKED				

NA=not applicable

# Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
ROMA	ROMA	SLATE	HOMESTEAD	HOMESTEAD	SPLIT SHAKE	VANGUARD ROLL
X	X					X
		X				
			X	X	X	
NO	NO	NO	YES	YES	YES	YES
SURFACE	THROUGH-COLOR	THROUGH-COLOR	SURFACE	THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR
12	15	5	12	36	5	17
NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	NATIONAL	REGIONAL
YES	NO	NO	YES	YES	YES	YES
YES	YES	YES	YES	YES	YES	YES
16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13	16 1/2 X 13
3	3	3	3	3	3	3
13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	13 1/2	14
90	90	90	90	90	90	90
800	800	800	900	900	900	810
3:12	3:12	3:12	3:12	3:12	3:12	3:12
30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	30-OR 40-LB FELT	43-LB BASE SHEET
< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	< 3:12	2:12
30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	
< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	< 3:12 & > 7:12	> 7:12
NA	NA	NA	NA	NA	NA	NA
3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12	3:12 TO > 5:12	
5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12	5:12 TO 12:12	
12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	12:12 AND OVER	ALL
ALL	ALL	ALL	ALL	ALL	ALL	ALL
1965	1985	1972	1978	1978	1980	1988
> 200,000	400,000	800,000	> 1.5 MILLION	> 1.5 MILLION	> 100,000	50,000
3	3	10	10	10	3	4
ICBO (2093)	ICBO (2093)	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY
D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200

## Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	VANGUARD FLAT	VANGUARD FLAT	BERMUDA FLAT	BERMUDA FLAT
3. TILE TYPE				
A. "S" (SPANISH) MISSION BARREL				
B. DOUBLE "S"				
C. FLAT, SHINGLE- (SLATE-) SHAPE	X			X
D. FLAT, SHAKE-SHAPE		X	X	
E. FLAT, RIBBED				
4. TILE DESCRIPTION				
A. TEXTURED (yes/no)	YES	NO	YES	YES
B. COLOR PRODUCTION (surface or through-color)	THROUGH-COLOR	THROUGH-COLOR	THROUGH-COLOR	SURFACE
C. NUMBER OF COLORS AVAILABLE	10	10	50	1
D. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL	REGIONAL
E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	NO	NO	YES	
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES	YES
6. DIMENSIONS AND COVERAGE				
A. TILE DIMENSIONS (inches x inches)	16 1/2 X 13	16 1/2 X 13	16 X 9	16 X 9
B. MINIMUM HEADLAP (inches)			2	2
C. EXPOSURE (inches)			14	14
D. PIECES PER ROOF SQUARE			120	120
E. WEIGHT PER ROOF SQUARE (pounds)	990	990	960	960
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS				
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	3:12	3:12	3:12	3:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	43-LB BASE SHEET	43-LB BASE SHEET	30-LB FELT + 90-LB FELT, HOT MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA)	2:12	2:12	2:12	2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	30-LB FELT + 90-LB FELT, HOT MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS				
A. DECK TYPES				
1. SOLID SHEATHING	X	X	X	X
2. SPACED SHEATHING				
B. DECK MATERIAL				
1. PLYWOOD/WOOD	X	X	X	X
2. ORIENTED STRAND BOARD				
3. WAFERBOARD				
4. OTHER (specify)				
C. FASTENING REQUIREMENTS				
1. BATTENS REQUIRED [at given slope(s), no, or NA]				
a. SOLID SHEATHING	> 7:12	> 7:12	> 7:12	> 7:12
b. SPACED SHEATHING				
2. NAILING REQUIREMENTS, FIELD TILES				
a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA]				
not required each tile, alternate rows each tile				
b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA]				
not required each tile, alternate rows each tile				
	ALL	ALL	NA	NA
	ALL	ALL	NA	NA
9. YEAR PRODUCT FIRST SOLD	1988	1988	1958	1958
10. NUMBER OF SQUARES INSTALLED	15,000	15,000	> 3 MILLION	> 1 MILLION
11. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)				
B. DIRECT (number of regional service locations or no)	4	4	4	4
12. ACCEPTED BY THE FOLLOWING CODES	SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY
13A. FOR SALES INFORMATION, CONTACT:	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200
13B. FOR TECHNICAL INFORMATION, CONTACT:	R. MOODY 407/338-8200	R. MOODY 407/338-8200	R. MOODY 407/338-8200	R. MOODY 407/338-8200
14. SEE APPENDIX IF CHECKED			X	X

NA=not applicable

## Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED
BARREL	BARREL	SPANISH "S"	SPANISH "S"	CEDARLITE	MARLEY CLASSIC TILE	MARLEY CONTEMPRA TILE
X	X	X	X		X	
				X		X
YES	NO	NO	YES	YES	NO	NO
THROUGH-COLOR 20	THROUGH-COLOR 20	THROUGH-COLOR 50	THROUGH-COLOR 50	THROUGH-COLOR 4	THROUGH 8	THROUGH 7
REGIONAL YES	REGIONAL	REGIONAL YES	REGIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES
YES		YES	YES	YES	YES	YES
18 X 9	18 X 19	16 X 9	16 X 9	13 1/2 X 13 1/2	13 16 1/4	13 16 1/4
2 1/2	2 1/2	2 1/2	2 1/2	3	3	3
15 1/2	15 1/2	13 1/2	13 1/2	10	12 X 13 1/4	12 X 13 1/4
140	140	105	105	120	96	96
1,050	1,050	890	890	< 600	1,000	1,000
3:12	3:12	3:12	3:12	3:12	4:12	4:12
30-LB FELT + 90-LB FELT, HOT MOPPED	30-LB FELT + 90-LB FELT, HOT MOPPED	43-LB BASE SHEET	43-LB BASE SHEET	30-LB FELT	TYPAR 30	TYPAR 30
2:12	2:12	2:12	2:12	< 3:12		
30-LB FELT + 90-LB FELT, ALL HOT MOPPED	30-LB FELT + 90-LB FELT, ALL HOT MOPPED	30-LB FELT + 90-LB FELT, ALL HOT MOPPED	30-LB FELT + 90-LB FELT, ALL HOT MOPPED	2 30-LB FELTS NAILED AND SOLID MOPPED		
X	X	X	X	X	X	X
X	X	X	X	X	X	X
> 7:12	> 7:12	> 7:12	> 7:12	NA	ALL	ALL
				NA	NA	NA
NA	NA	ALL	ALL	NA	7:12-11:12	7:12-11:12
					12:12 +	12:12 +
NA	NA	ALL	ALL	ALL	NA	NA
1958	1958	1965	1965	1995	NA	NA
> 1 MILLION	> 1 MILLION	> 1 MILLION	> 1 MILLION	150,000	1920	1920
4	4	4	4	200 NO	30 NO	30 NO
SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY	SBCCI, METRO-DADE COUNTY	ICBO (2093), SBCCI, SFBC		
D. BALDWIN 407/338-8200 R. MOODY 407/338-8200	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200	M. SUZANSKI 714/756-1605 D. HUISKEN 714/756-1605	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094
X	X				X	X



# Concrete Tile

1. COMPANY NAME	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED	WESTILE	WESTILE
2. PRODUCT NAME	MARLEY CASTILLE TILE	MARLEY SHAKE TILE	SERIES 1000-1 SLATE - ALPINE	SERIES 1000-1 FEATHERSTONE SLATE - ALPINE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	<div></div> <div>X</div> <div></div> <div></div> <div></div>	<div></div> <div></div> <div>X</div> <div></div> <div></div>	<div></div> <div>X</div> <div>X</div> <div></div> <div></div>	<div></div> <div></div> <div>X</div> <div>X</div> <div></div>
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	<div></div> <div>NO</div> <div>THROUGH</div> <div>3</div> <div>NATIONAL</div> <div>YES</div>	<div></div> <div>YES</div> <div>THROUGH</div> <div>3</div> <div>NATIONAL</div> <div>YES</div>	<div></div> <div>YES</div> <div>THROUGH-COLOR</div> <div>50</div> <div>NATIONAL</div> <div>YES</div>	<div></div> <div>YES</div> <div>THROUGH-COLOR</div> <div>8</div> <div>NATIONAL</div> <div>YES</div>
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	<div></div> <div>13 16 1/4</div> <div>3</div> <div>12 X 13 1/4</div> <div>96</div> <div>1,000</div>	<div></div> <div>13 16 1/4</div> <div>3</div> <div>12 X 13 1/4</div> <div>96</div> <div>1,000</div>	<div></div> <div>13 X 16 1/2</div> <div>3</div> <div>13 1/2</div> <div>88</div> <div>950</div>	<div></div> <div>13 X 16 1/2</div> <div>3</div> <div>13 1/2</div> <div>88</div> <div>690</div>
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION  C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	<div></div> <div>4:12</div> <div>TYPAR 30</div> <div></div> <div></div>	<div></div> <div>4:12</div> <div>TYPAR 30</div> <div></div> <div></div>	<div></div> <div>3:12</div> <div>30-OR 43-LB FELT</div> <div>&lt; 3:12</div> <div>BITHUTHAYNE</div>	<div></div> <div>3:12</div> <div>30-OR 43-LB FELT</div> <div>&lt; 3:12</div> <div>BITHUTHAYNE</div>
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	<div></div> <div>X</div> <div></div> <div>X</div> <div></div> <div></div> <div></div> <div></div> <div>ALL</div> <div>NA</div> <div></div> <div>7:12-11:12</div> <div>12:12 +</div> <div>NA</div> <div>NA</div> <div>NA</div>	<div></div> <div>X</div> <div></div> <div>X</div> <div></div> <div></div> <div></div> <div></div> <div>ALL</div> <div>NA</div> <div></div> <div>7:12-11:12</div> <div>12:12 +</div> <div>NA</div> <div>NA</div> <div>NA</div>	<div></div> <div></div> <div>X</div> <div>X</div> <div></div> <div></div> <div></div> <div></div> <div>7:12 ABOVE</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div>	<div></div> <div></div> <div>X</div> <div>X</div> <div></div> <div></div> <div></div> <div></div> <div>7:12 ABOVE</div> <div>NA</div> <div>3:12 TO 5:12</div> <div>&gt; 5:12 TO 12:12</div> <div>12:12 AND OVER</div> <div>ALL PITCHES</div> <div>NA</div> <div>NA</div> <div>NA</div> <div>NA</div>
9. YEAR PRODUCT FIRST SOLD	1988	1988	1982	1993
10. NUMBER OF SQUARES INSTALLED			250,000	150,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	<div></div> <div>30</div> <div>NO</div>	<div></div> <div>30</div> <div>NO</div>	<div></div> <div>190</div> <div>NO</div>	<div></div> <div>190</div> <div>NO</div>
12. ACCEPTED BY THE FOLLOWING CODES			ICBO (3984)	ICBO (3984)
13A. FOR SALES INFORMATION, CONTACT:  13B. FOR TECHNICAL INFORMATION, CONTACT:	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094	G. MANLOVE 800/433-8453	G. MANLOVE 800/433-8453
14. SEE APPENDIX IF CHECKED	X	X		

NA=not applicable

# Concrete Tile

WESTILE
SERIES #2000 DOUBLE ROMAN
X
NO
THROUGH-COLOR
12
NATIONAL
YES
YES
13 X 16 1/2
3
13 1/2
90
900
3:12
30-OR 43-LB FELT
< 3:12
BITHUTHAYNE
X
X
7:12 ABOVE
NA
3:12 TO 5: 12
>5:12 TO 12:12
12:12 AND OVER
NA
NA
NA
1982
100,000
180
NO
ICBO (3984)
G. MANLOVE
800/433-8453

# Metal Components

1. COMPANY NAME	ALCOA BUILDING PRODUCTS		ARS INDUSTRIES, INC.	
2. PRODUCT NAME	COUNTRY CEDAR ALUMINUM SHAKES		SSC	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)	WOOD			
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)			SNAP-ON BATTEN STANDING SEAM	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]			12, 16, 18, 20, 24 X 50	
B. INDIVIDUAL (dimensions: inches x inches)	12 X 48			
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER, MILL
STAINLESS STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
GALVALUME (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
ALUMINIZED STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
ALUMINUM (in.)	0.019	HYLAR 5000, KYNAR 500	0.19, 0.32, 0.40	KYNAR 500, SILICON POLYESTER
COPPER (oz.)			16, 20	MILL
TERNE METAL (ga.)			22, 26	MILL
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	4:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12			
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD			X	
DECKING NOT REQUIRED			X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT OR EQUIVALENT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER			1	F, E
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)			CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	50			
B. EXPOSURE (inches)	12 X 48			
C. COVERAGE (approx. no. of pieces per square at listed exposure)	24			
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED			
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS			
3. NUMBER OF FASTENERS PER PIECE (number or NA)	4			
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK			
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO			
D. SUPPORT BATTENS REQUIRED (yes/no)	NO			
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1972		1980	
B. NUMBER OF SQUARES INSTALLED			1 MILLION +	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS			1	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		YES	
FOR SALES INFORMATION, CONTACT:	M.P. STORTI	800/621-7466	C. LEVERETT 205/836-6777	
FOR TECHNICAL INFORMATION, CONTACT:	D. VERBOFSKY	800/621-7466	M. WEED 205/836-6777	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE			
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE			
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE			
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Components
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[illegible]

# Metal Components

1. COMPANY NAME	ATAS INTERNATIONAL INC.		ATAS INTERNATIONAL INC.	
2. PRODUCT NAME	MONARCH ROOF MRB		MONARCH ROOF MRC	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE	BATTEN SEAM STANDING SEAM		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12, 16, X 70		12, 16, X 70	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500	24	KYNAR 500
STAINLESS STEEL (ga.)				
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.032, 0.40, 0.50	KYNAR 500	0.032, 0.40	KYNAR 500
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	2:12		2:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	2:12		2:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED	X		X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1979		1979	
B. NUMBER OF SQUARES INSTALLED	> 100,000		> 100,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	2		2	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J. BUSH 610/395-8446		J. BUSH 610/395-8446	
FOR TECHNICAL INFORMATION, CONTACT:	J. BUSH 610/395-8446		J. BUSH 610/395-8446	
8. ASTM E331 WATER INFILTRATION TEST RESULTS			NO LEAKAGE @10PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.13 CFM PER SQ FT @4.00 PSF		0.13 CFM PER SQ FT @4.00 PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		UL-90	
12. SEE APPENDIX IF CHECKED	X		X	

NA=not applicable

## Metal Components

ATAS INTERNATIONAL INC.		ATAS INTERNATIONAL INC.		ATAS INTERNATIONAL INC.	
SCANROOF		GRANUTILE		PERMA SHAKE	
				HAND SPLIT	
SCANDINAVIAN		TILE			
16 1/2 X 13 10/12		46 X 1.33		10 X 5	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500	26	STONE COATED	28	CERAMASTAR 950
3:12		3:12		3:12	
2:12		3:12		3:12	
X		X		X	
X		X		X	
X					
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
2	N	1	N	1 3/8	N
EXPOSED AND CONCEALED		EXPOSED		CONCEALED	
1980		1994		1995	
> 100,000		> 100,000		> 100,000	
DISTRIBUTORS		DISTRIBUTORS		DISTRIBUTORS	
2		2		2	
NO		NO		NO	
J. BUSH 610/395-8446		J. BUSH 610/395-8446		J. BUSH 610/395-8446	
J. BUSH 610/395-8446		J. BUSH 610/395-8446		J. BUSH 610/395-8446	
				NONE	
				NONE	
CLASS A				NONE	
UL-90				NONE	
X		X			

# Metal Components

1. COMPANY NAME	ATAS INTERNATIONAL INC.		ATAS INTERNATIONAL INC.	
2. PRODUCT NAME	STANDING SEAM SHINGLE		CASTLE TOP	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
	STANDING SEAM WITH TRANSVERSE SEAM		DIAMOND SHAPE	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]	16 X 3-5		16 X 16	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	29			
STAINLESS STEEL (ga.)				
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)			0.032	KYNAR 500
COPPER (oz.)			16	
TERNE METAL (ga.)				
ZINC (ga.)			0.02	
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD				
DECKING NOT REQUIRED				
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB. FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD	1 1/8	N		
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED			
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)			78	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)			NAILS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)			NA	
C. ADHESIVE/SEALANT REQUIRED (yes/no)			NO	
D. SUPPORT BATTENS REQUIRED (yes/no)			NO	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1995		1995	
B. NUMBER OF SQUARES INSTALLED	> 100,000		>100	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	2		2	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J. BUSH 610/395-8446		J. BUSH 610/395-8446	
FOR TECHNICAL INFORMATION, CONTACT:	J. BUSH 610/395-8446		J. BUSH 610/395-8446	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE			
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE			
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE			
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE			
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

BERRIDGE MANUFACTURING CO.		BERRIDGE MANUFACTURING CO.		BERRIDGE MANUFACTURING CO.	
BERMUDA ROOF PANEL		RUSTIC SHAKE SHINGLE		BERMUDA SHAKE SHINGLE	
		CEDAR SHAKE		CEDAR-SMOOTH	
"BERMUDA"-STYLE HORIZONTAL PLANK					
11 X UNLIMITED		12 X 24		10 X 60	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
		24		24	
24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
24					
16		16		16	
3:12		3:12		3:12	
X		X		X	
X		X		X	
X					
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
1	F				
CONCEALED					
		155		135	
		12 X 24		10 X 60	
		50		24	
		CONCEALED		CONCEALED CLIP	
		NAILS		NAIL	
		2		4	
		INTERLOCK		INTERLOCK	
		NO		NO	
		NO		NO	
1992		1970		1970	
> 10,000		> 10,000		> 5,000	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
7		7		7	
YES		YES		YES	
D. DOYLE 800/231-8127		D. DOYLE 800/231-8127		D. DOYLE 800/231-8127	
B. MARKS 800/231-8127		B. MARKS 800/231-8127		B. MARKS 800/231-8127	
NONE		NONE		NONE	
NONE		NONE		NONE	
CLASS A		CLASS A		CLASS A	
UL-90		NONE		NONE	
X					



# Metal Components

1. COMPANY NAME	BERRIDGE MANUFACTURING CO.		BERRIDGE MANUFACTURING CO.	
2. PRODUCT NAME	SPANISH TILE		VICTORIAN SHINGLE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)			FLAT WITH SCULPTURED DESIGN-RESTORATION	
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)	SPANISH			
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]	9 X 40			
B. INDIVIDUAL (dimensions: inches x inches)	8 X 17		9 X 12	
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
STAINLESS STEEL (ga.)	24		24	
GALVALUME (ga.)	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)				
COPPER (oz.)	16		16	
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		6:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)				
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X			
DECKING NOT REQUIRED	X			
D. UNDERLAYMENT RECOMMENDED (type or NA)	NA		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED	2	N		N
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED			
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	256		151	
B. EXPOSURE (inches)	8 X 16		9 X 12	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	100		133	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	SCREWS		NAILS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	1		2	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	NA		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	NO		NO	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1970		1970	
B. NUMBER OF SQUARES INSTALLED	> 20,000		> 1,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	7		7	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		YES	
FOR SALES INFORMATION, CONTACT:	D. DOYLE 800/231-8127		D. DOYLE 800/231-8127	
FOR TECHNICAL INFORMATION, CONTACT:	B. MARKS 800/231-8127		B. MARKS 800/231-8127	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

BERRIDGE MANUFACTURING CO.		BERRIDGE MANUFACTURING CO.		CLASSIC PRODUCTS, INC.	
CLASSIC SHINGLE		S-TILE		RUSTIC SHINGLE	
FLAT WITH SCULPTURED DESIGN-RESTORATION				X	
		S-TILE			
9 X 12		32 11/16 X 40		12 X 24	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500, UNFINISHED, HYLAR 5000	24	KYNAR 500, HYLAR 5000		
24					
24	KYNAR 500, UNFINISHED HYLAR 5000	24	KYNAR 500, HYLAR 5000		
16				0.019	KYNAR
6:12		3:12		3:12	
X		X		3:12	
		X		X	
		X			
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
		1 1/2	E		
		EXPOSED			
151				40	
9 X 12				12 X 24	
133				50	
CONCEALED				CONCEALED	
NAILS				NAILS	
2				2	
INTERLOCK				INTERLOCK	
NO				NO	
NO				NO	
1970		1993		1960	
> 1,000				> 750,000	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS	
7		7			
YES		YES		NO	
D. DOYLE 800/231-8127		800/231-8127		J. KNIFE 800/543-8938	
B. MARKS 800/231-8127		800/231-8127		D. MILLER 800/543-8938	
NONE		NONE		NONE	
NONE		NONE		NONE	
CLASS A		CLASS A		CLASS A, B, AND C	
NONE				NONE	

# Metal Components

1. COMPANY NAME	CLASSIC PRODUCTS, INC.		CLASSIC PRODUCTS, INC.	
2. PRODUCT NAME	ROUGH SHAKE		CHATEAU SLATE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)	X			
C. SIMULATED SLATE (specific type if applicable)			X	
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]				
B. INDIVIDUAL (dimensions: inches x inches)	12 X 60		8 X 12	
3.3 MATERIALS, THICKNESSES, AND FINISHES				
GALVANIZED STEEL (ga.)	THICKNESSES	FINISHES	THICKNESSES	FINISHES
STAINLESS STEEL (ga.)			28	KYNAR
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.019	KYNAR	0.019, .032	KYNAR
COPPER (oz.)			12	
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X			
SPACED SHEATHING, WOOD				
DECKING NOT REQUIRED				
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB. FELT		30-LB. FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)				
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	38		45 ALUMINUM; 105 STEEL, COPPER	
B. EXPOSURE (inches)	12 X 60		8 X 12	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	20		132	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS		NAILS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	5		2	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	NO		NO	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1964		1992	
B. NUMBER OF SQUARES INSTALLED	0		5,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS				
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J. KNIFE 800/543-8938		J. KNIFE 800/543-8938	
FOR TECHNICAL INFORMATION, CONTACT:	D. MILLER 800/543-8938		D. MILLER 800/543-8938	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

DECRA ROOFING SYSTEMS/TASMAN RFG		DECRA ROOFING SYSTEMS/TASMAN RFG		DECRA ROOFING SYSTEMS/TASMAN RFG	
DECRA TILE		DECRA SHAKE		DECRA SLATE	
		HAND SPLIT SHAKE		SLATE	
SPANISH BARREL					
16 /12 X 52 1/4		13 1/2 X 53		15 1/2 X 51 1/2	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
26	STONE CHIP	26	STONE CHIP	26	STONE CHIP
3:12 2 1/2:12		3:12 2 1/2:12		3:12 2 1/2:12	
X		X		X	
X		X		X	
X		X		X	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
140		140		140	
14 1/2 X 49 1/2		12 5/8 X 50		12 5/8 X 49 1/4	
20		22.4		23.1	
EXPOSED		EXPOSED		EXPOSED	
NAIL OR SCREW		NAIL OR SCREW		NAIL OR SCREW	
4		4		4	
INTERLOCK		INTERLOCK		INTERLOCK	
NO		NO		NO	
YES		YES		YES	
1957		1992		1996	
DIRECT		DIRECT		DIRECT	
12		12		12	
YES		YES		YES	
M.R. TWEDELL 817/695-1090		M.R. TWEDELL 817/695-1090		M.R. TWEDELL 817/695-1090	
J. WILSON 909/292-8180		J. WILSON 909/292-8180		J. WILSON 909/272-8180	
CLASS A, B, C		CLASS A, B, C			
X		X		X	

# Metal Components

1. COMPANY NAME	DURA-LOC ROOFING SYSTEMS		DURA-LOC ROOFING SYSTEMS	
2. PRODUCT NAME	CONTINENTAL		IMPRESSIONS	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)			X	
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)	X			
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]				
B. INDIVIDUAL (dimensions: inches x inches)	16 X 48		16 X 48	
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)				
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	0.019	COLORED GRANULES	0.015 0.015	KYNAR CLEAR ACRYLIC
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)				
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	4:12		4:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	2:12		2:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED	X		X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)				
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	125		80	
B. EXPOSURE (inches)	16		16	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	20		20	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED		EXPOSED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS, SCREWS		SCREWS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	3		5	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	YES		NO	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1984		1997	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTION ONLY	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	15		20	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		NO	
FOR SALES INFORMATION, CONTACT:	J. WOOD 800/265-9357		J. WOOD 800/265-9357	
FOR TECHNICAL INFORMATION, CONTACT:	J. WIEBE 800/265-9357		J. WIEBE 800/265-9357	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NO LEAKAGE @ 12 PSF		NO LEAKAGE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

DURA-LOC ROOFING SYSTEMS		DURA-LOC ROOFING SYSTEMS		GERARD ROOFING TECHNOLOGIES	
SHADOWLINE		SHAKE		GERARD SHAKE	
		THICK SPLIT SHAKE		X	
X					
16 X 48		16 X 48		44 3/4 X 15 1/2	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
				26	STONE COATED
0.019	COLORED GRANULES	0.019	COLORED GRANULES	26	STONE COATED
4:12 2:12		4:12 2:12		2 1/2:12 2 1/2:12	
X		X		X	
X		X		X	
X		X		X	
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
				1	N
125		125		140	
16		16		42 3/4 X 14 1/2	
20		20		23.2	
EXPOSED		EXPOSED		EXPOSED	
NAILS, SCREWS		NAILS, SCREWS		NAILS OR SCREWS	
3		3		5	
INTERLOCK		INTERLOCK		INTERLOCK	
NO		NO		NO	
YES		YES		YES	
1994		1995		1989	
				>200,000	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DIRECT	
15		5		4	
YES		YES		NO	
J. WOOD 800/265-9357		J. PRINCE 800/265-9357		J.T. BROWN 800/841-3213	
J. WIEBE 800/265-9357		A. REID 800/265-9357		T. BROWN 800/841-3213	
NO LEAKAGE @ 12 PSF		NO LEAKAGE @ 12 PSF			
NONE		NONE			
CLASS A		CLASS A		CLASS A, B, C	
UL-90		UL-90			

# Metal Components

1. COMPANY NAME	GERARD ROOFING TECHNOLOGIES		MBCI	
2. PRODUCT NAME	GERARD TILE		CRAFTSMAN SERIES "HB" PROFILE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)	X			
E. OTHER (specific type)			STANDING SEAM: SEPARATE PAN AND BATTEN	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]			12, 16 1/2 X 40	
B. INDIVIDUAL (dimensions: inches x inches)	45 3/4 X 15 1/2			
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	STONE COATED		
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	26	STONE COATED	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)			0.032	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	2 1/2:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	2 1/2:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X			
DECKING NOT REQUIRED	X			
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED	1	N		
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER			3/8	F
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)			CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	140			
B. EXPOSURE (inches)	43 3/4 X 14 1/2			
C. COVERAGE (approx. no. of pieces per square at listed exposure)	22.6			
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED			
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS OR SCREWS			
3. NUMBER OF FASTENERS PER PIECE (number or NA)	5			
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK			
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO			
D. SUPPORT BATTENS REQUIRED (yes/no)	YES			
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1971		1983	
B. NUMBER OF SQUARES INSTALLED	> 1 MILLION			
C. METHOD OF DISTRIBUTION (distributors, direct)	DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	4		16	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J.T. BROWN	800/841-3213	W. DICKINSON	
FOR TECHNICAL INFORMATION, CONTACT:	T. BROWN	800/841-3213	T. WOLFE	
8. ASTM E331 WATER INFILTRATION TEST RESULTS			4 PSF - LEAKAGE RATE/NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS			4 PSF - LEAKAGE RATE/0.035 (16 1/2"), 0.048 (12")	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A, B, C			
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION			UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

MBCI		MBCI		MBCI	
CRAFTSMAN SERIES "SB" PROFILE		CRAFTSMAN "LB" PROFILE		LOKSEAM	
STANDING SEAM: SEPARATE PAN AND BATTEN		STANDING SEAM: SEPARATE PAN AND BATTEN		STANDING SEAM: VERTICAL LEG PANEL	
12, 16 1/2 X 40		12, 16 1/2 X 40		10, 12, 18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400
0.032	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC	0.032	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC	0.032	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC
3:12 3:12		3:12 3:12		3:12	
X		X		X	
				X	
				X	
30-LB FELT		30-LB FELT			
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
3/8	F	2	F	1 3/4	F
CONCEALED		CONCEALED		CONCEALED	
1983		1983		1990	
DIRECT		DIRECT		DIRECT	
16		16		16	
NO		NO		NO	
W. DICKINSON T. WOLFE		W. DICKINSON T. WOLFE		W. DICKINSON T. WOLFE	
4 PSF - LEAKAGE RATE/NONE		4 PSF - LEAKAGE RATE/NONE		1.57 PSF-LEAKAGE RATE/NONE	
4 PSF - LEAKAGE RATE/0.035 (16 1/2"), 0.048 (12")		4 PSF - LEAKAGE RATE/0.035 (16 1/2"), 0.048 (12")		1.57 PSF-LEAKAGE RATE: 0.009 (18"), 0.013 (12"), 0.016 (10")	
UL-90		UL-90		UL-90	



# Metal Components

1. COMPANY NAME	MCELROY METAL INC.		MCELROY METAL INC.	
2. PRODUCT NAME	MAXIMA		MEDALLION I	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
	STANDING SEAM: VERTICAL LEG PANEL		STANDING SEAM: BATTEN CAP	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]	16 , 18, 24 X 40		12 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)				
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	24	BARE KYNAR 500	24	SILICONIZED POLYESTER, KYNAR 500, BARE
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)				
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	1/4:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)				
C. DECK TYPES				
SOLID DECK, WOOD			X	
SPACED SHEATHING, WOOD				
DECKING NOT REQUIRED	X			
D. UNDERLAYMENT RECOMMENDED (type or NA)			30-LB. FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER	2 1/16, 3 1/6	F	1	N
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1997		1990	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	16		16	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	K. GIESEKE 800/951-6531		K. GIESEKE 800/951-6531	
FOR TECHNICAL INFORMATION, CONTACT:	E. OSTEN 800/950-6531		E. OSTEN 800/950-6531	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NO LEAKAGE AT 12 PSF		NO LEAKAGE AT 12 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.021 CFM/L. FT. AT 12 PSF		0.005 AT 1.57 PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-125		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

MCELROY METAL INC		MCELROY METAL INC.		METAL SALES MANUFACTURING CORP.	
MEDALLION 2		MEDALLION-LOK		PRO-LOC I, II, III	
STANDING SEAM: BATTEN CAP		STANDING SEAM		STANDING SEAM: INTEGRAL BATTEN	
12 X 40		16 X 40		12, 15, 18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
				26	BARE, COLORFAST 25
24	SILICONIZED POLYESTER, KYNAR 500, BARE	24	SILICONIZED POLYESTER, KYNAR 500, BARE	24	BARE, KYNAR 500 (PVF2)
3:12		3:12		3:12	
X				X	
30-LB. FELT		X		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
1 1/2	N	1 3/4	F	1 1/2, 1 7/8, 2	N
CONCEALED		CONCEALED		CONCEALED	
1990		1993		1989	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
16		6		12	
NO		NO			
K. GIESEKE 800/951-6531		J. DARRAH 800/950-6531		D. CUNNINGHAM	
E. OSTEN 800/950-6531		E. OSTEN 800/950-6531		J. GIANACAKES	
NO LEAKAGE AT 12 PSF		NONE		NONE	
0.007 AT 1.57 PSF		NONE		NONE	
NONE		NONE		NONE	
UL-90		UL-90		UL-90	

# Metal Components

1. COMPANY NAME	METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.	
2. PRODUCT NAME	STILE		5V CRIMP	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)	CLAY TILE			
E. OTHER (specific type)			ARCHITECTURAL	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]	39.4 X 20		26 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	KYNAR 500 (PVF2)		
STAINLESS STEEL (ga.)				
GALVALUME (ga.)			26	BARE, COLORFAST 25
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)				
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)				
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD				
DECKING NOT REQUIRED				
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED		EXPOSED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1983		1968	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	12		12	
E. LICENSED APPLICATOR AGREEMENT (yes/no)				
FOR SALES INFORMATION, CONTACT:	D. CUNNINGHAM		D. CUNNINGHAM	
FOR TECHNICAL INFORMATION, CONTACT:	J. GIANACAKES		J. GIANACAKES	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Components
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[illegible]

# Metal Components

1. COMPANY NAME	METAL SALES MANUFACTURING CORP.		MET-TILE INC.		PERF
2. PRODUCT NAME	IMAGE II		MET-TILE		
3. CONFIGURATION					
3.1 STYLE					
A. SIMULATED SHINGLE (specific type if applicable)					
B. SIMULATED SHAKE (specific type if applicable)					
C. SIMULATED SLATE (specific type if applicable)					
D. SIMULATED TILE (specific type if applicable)					
E. OTHER (specific type)			MISSION TILE		
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM: SNAP SEAM				
A. PANEL [width (in.), maximum length (ft.)]	12, 16 X 40		36 X 20		
B. INDIVIDUAL (dimensions: inches x inches)					
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES	
GALVANIZED STEEL (ga.)	29, 26	COLORFAST 25	26	AQUALURE 2000	
STAINLESS STEEL (ga.)					
GALVALUME (ga.)			26	AQUALURE 2000	
ALUMINIZED STEEL (ga.)					
ALUMINUM (in.)					
COPPER (oz.)					
TERNE METAL (ga.)					
ZINC (ga.)					
4. SYSTEMS RECOMMENDATIONS					
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		2:12		
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)			1 1/2:12		
C. DECK TYPES					
SOLID DECK, WOOD	X		X		
SPACED SHEATHING, WOOD			X		
DECKING NOT REQUIRED			X		
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT		
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)					
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	
		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE	
A. OVERLAPPED					
B. INTERLOCKED					
C. SLIP LOCKED					
D. SNAP TOGETHER	1	N			
5.2 FASTENING METHOD					
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED				
B. CLIP (exposed or concealed, specify)					
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)					
6.1 DIMENSIONS			125		
A. WEIGHT PER ROOF SQUARE (pounds)					
B. EXPOSURE (inches)					
C. COVERAGE (approx. no. of pieces per square at listed exposure)					
6.2 INSTALLATION PROCESSING			EXPOSED		
A. 1. THROUGH-FASTENED (exposed or concealed, specify)					
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)					
3. NUMBER OF FASTENERS PER PIECE (number or NA)					
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)					
C. ADHESIVE/SEALANT REQUIRED (yes/no)					
D. SUPPORT BATTENS REQUIRED (yes/no)					
7. MANUFACTURER/PRODUCT DATA					
A. YEAR PRODUCT FIRST SOLD	1996		1984		
B. NUMBER OF SQUARES INSTALLED			> 100,000		
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS		
D. NUMBER OF REGIONAL SERVICE LOCATIONS	12		20		
E. LICENSED APPLICATOR AGREEMENT (yes/no)			YES		
FOR SALES INFORMATION, CONTACT:	D. CUNNINGHAM		T. HOLMAN 800/899-0311		
FOR TECHNICAL INFORMATION, CONTACT:	J. GIANACAKES		T. HOLMAN 800/899-0311		
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE		
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE		
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE		CLASSES A, B, C		
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		UL-90		
12. SEE APPENDIX IF CHECKED					

NA=not applicable

# Metal Components

PERFECTION: THE VERY BEST IN BUILDING PRODUCTS		PETERSEN ALUMINUM CORP.		PETERSEN ALUMINUM CORP.	
COUNTRY MANOR SHAKE		INTEGRAL BATTEN		REDI-ROOF STANDING SEAM	
X		STANDING SEAM: INTEGRAL BATTEN SEAM		STANDING SEAM	
12 X 48		11-18 X 40		12-18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
0.019	KYNAR	0.032	KYNAR 500	0.032	KYNAR 500
3:12		3:12		3:12	
4:12		3:12		3:12	
X		X		X	
		X		X	
30-LB. FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
		1 1/2	N	1 1/2	N
CONCEALED		CONCEALED		CONCEALED	
NAILS OR SCREWS					
4					
INTERLOCK					
NO					
NO					
1996		1978		1978	
> 15,000		> 100,000		> 100,000	
DISTRIBUTORS		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
2		4		4	
YES		NO		NO	
E. VORESS 888/788-2427		800/323-1960		800/323-1960	
D. MILLER 888/788-2427		800/323-1960		800/323-1960	
NONE		NO LEAKAGE @12 PSF		NO LEAKAGE @12 PSF	
NONE		0.008 CFM/SQ FT @1.57PSF		0.004 CFM/SQ FT @1.57PSF	
CLASSES A, B, C		CLASS A		CLASS A	
NONE		UL-90		UL-90	

# Metal Components

1. COMPANY NAME	PETERSEN ALUMINUM CORP.		PETERSEN ALUMINUM CORP.	
2. PRODUCT NAME	REDI-ROOF BATTEN		SNAP-ON STANDING SEAM	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM SNAP-ON BATTEN		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12-18 X 45		12-18 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500	24	KYNAR 500
STAINLESS STEEL (ga.)				
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.032	KYNAR 500	0.032	KYNAR 500
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED				
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)				
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1978		1978	
B. NUMBER OF SQUARES INSTALLED	> 100,000		> 100,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	4		4	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	800/323-1960		800/323-1960	
FOR TECHNICAL INFORMATION, CONTACT:	800/323-1960		800/323-1960	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NO LEAKAGE @12 PSF		NO LEAKAGE @12 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.004 CFM/SQ FT @1.57PSF		0.006 CFM/SQ FT @1.57PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

## Metal Components

PETERSEN ALUMINUM CORP. FLUSH PANEL		PETERSEN ALUMINUM CORP. REVEAL PANEL		PETERSEN ALUMINUM CORP. SNAP-ON BATTEN	
STANDING SEAM		STANDING SEAM		STANDING SEAM: SNAP-ON BATTEN	
7-18 X 40		7-18 X 40		12-18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR 500	22, 24	KYNAR 500	24	KYNAR 500
0.032	KYNAR 500	0.032	KYNAR 500	0.032	KYNAR 500
				3:12 3:12	
X		X		X	
X		X		X	
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
1	N	1	N		
				1 1/2	N
CONCEALED		CONCEALED		CONCEALED	
1978 > 100,000		1978 > 100,000		1978 > 100,000	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
4		4		4	
NO		NO		NO	
800/323-1960 800/323-1960		800/323-1960 800/323-1960		800/323-1960 800/323-1960	
NONE		NONE		NONE	
NONE		NONE		NONE	
NONE		NONE		CLASS A	
NONE		NONE		NONE	



# Metal Components

1. COMPANY NAME	PETERSEN ALUMINUM CORP.		PETERSEN ALUMINUM CORP.	
2. PRODUCT NAME	INTEGRAL STANDING SEAM		HIGH SNAP-ON STANDING SEAM	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	11-18 X 40		11-18 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500	24	KYNAR 500
STAINLESS STEEL (ga.)				
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.032	KYNAR 500	0.032	KYNAR 500
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED				
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1978		1978	
B. NUMBER OF SQUARES INSTALLED	> 100,000		> 100,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	4		4	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	800/323-1960		800/323-1960	
FOR TECHNICAL INFORMATION, CONTACT:	800/323-1960		800/323-1960	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NO LEAKAGE @12 PSF		NO LEAKAGE @12 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.02 CFM/SQ FT @1.57PSF		0.005 CFM/SQ FT @1.57PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

PETERSEN ALUMINUM CORP.		SPRINGHOUSE INC.		SPRINGHOUSE INC.	
SNAP-CLAD		SPRINGHOUSE SHINGLES		SPRINGHOUSE SHINGLES	
		X		X	
STANDING SEAM					
10-18 X 45		11 1/2 X 34 1/2		11 1/2 X 34 1/2	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR 500	29	KYNAR	29	KYNAR
		29	DULL	29	DULL
0.032	KYNAR 500				
		12, 16	NATURAL, LEAD COATED, PRE-PATINA	12, 16	NATURAL, LEAD COATED, PRE-PATINA
		0.020, 0.027	PRE-PATINA, GRAY, BLACK	0.020, 0.027	PRE-PATINA, GRAY, BLACK
2:12		4:12		4:12	
2:12					
X		X		X	
X		X		X	
X					
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
1 3/4	F				
CONCEALED					
		80 STEEL		80 STEEL	
		10		10	
		42		42	
		CONCEALED		CONCEALED	
		NAILS, SCREWS		NAILS, SCREWS	
		5		5	
1993		1996		1996	
> 100,000					
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
4					
NO		NO		NO	
800/323-1960		519/235-1566		519/235-1566	
800/323-1960		J. NICHOLSON 519/235-1566		J. NICHOLSON 519/235-1566	
NO LEAKAGE @12 PSF					
0.005 CFM/SQ FT @1.57PSF					
CLASS A					
UL-90					

# Metal Components

1. COMPANY NAME	ULTRA SEAM, INC.		ULTRA SEAM, INC.	
2. PRODUCT NAME	US 150 LS		US 175 LS	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12 3/4, 14 3/4, 18 3/4 X NO LIMIT		12 3/4, 14 3/4, 18 3/4 X NO LIMIT	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	22, 24, 26, 28	KYNAR	22, 24, 26, 28	KYNAR
STAINLESS STEEL (ga.)	0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED
GALVALUME (ga.)	22, 24, 26	KYNAR, UNFINISHED	22, 24, 26	KYNAR, UNFINISHED
ALUMINIZED STEEL (ga.)	22, 24, 26	UNFINISHED	22, 24, 26	UNFINISHED
ALUMINUM (in.)	0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED
COPPER (oz.)	16, 20	UNFINISHED	16, 20	UNFINISHED
TERNE METAL (ga.)	26, 28, 20		26, 28, 20	
ZINC (ga.)	0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)				
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED			X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD	1 1/2	E	1 3/4	E
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1991		1982	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	10		10	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		YES	
FOR SALES INFORMATION, CONTACT:	L. PRIDE	800/874-7326	L. PRIDE	800/874-7326
FOR TECHNICAL INFORMATION, CONTACT:	R. STEYER	248/960-0540	R. STEYER	248/960-0540
8. ASTM E331 WATER INFILTRATION TEST RESULTS				
9. ASTM E283 AIR INFILTRATION TEST RESULTS				
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)				
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION			UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Components

ULTRA SEAM, INC.		ULTRA SEAM, INC.		ULTRA SEAM, INC.	
US 150 A		US 150 WB		US 100 SS	
STANDING SEAM		STANDING SEAM: BATTEN SEAM		STANDING SEAM	
12, 16, 20, 24 X NO LIMIT		15 3/4, 19 3/4, 23 3/4 X NO LIMIT		14 1/2, 18 1/2 X NO LIMIT	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24, 26, 28	KYNAR	22, 24, 26, 28	KYNAR	24, 26, 28	KYNAR
0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED
22, 24, 26	KYNAR, UNFINISHED	22, 24, 26	KYNAR, UNFINISHED	24, 26	KYNAR, UNFINISHED
22, 24, 26	UNFINISHED	22, 24, 26	UNFINISHED	24, 26	UNFINISHED
0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED
16, 20	UNFINISHED	16, 20	UNFINISHED	16, 20	KYNAR, UNFINISHED
26, 28, 20		26, 28, 20		26, 28, 20	
0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED
2:12		2:12		4:12 6:12	
X		X		X	
X		X		X	
X					
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
1 1/2	E	1 1/2	E	1	E
CONCEALED		CONCEALED		CONCEALED	
1982		1982		1982	
DISTRIBUTORS		DISTRIBUTORS		DISTRIBUTORS	
10		10		10	
YES		YES		YES	
L. PRIDE 800/874-7326		L. PRIDE 800/874-7326		L. PRIDE 800/874-7326	
R. STEYER 248/960-0540		R. STEYER 248/960-0540		R. STEYER 248/960-0540	
NO LEAKAGE, 15 MINUTES @ 9 PSF					
0.004 CFM/SQ FT					
UL-90					

# Metal Components

1. COMPANY NAME	VINCENT METALS	
2. PRODUCT NAME	COLORKLAD SYSTEM I	
3. CONFIGURATION		
3.1 STYLE		
A. SIMULATED SHINGLE (specific type if applicable)		
B. SIMULATED SHAKE (specific type if applicable)		
C. SIMULATED SLATE (specific type if applicable)		
D. SIMULATED TILE (specific type if applicable)		
E. OTHER (specific type)		
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12, 16, 18, 22 X 40	
B. INDIVIDUAL (dimensions: inches x inches)		
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500
STAINLESS STEEL (ga.)	24, 26	MILL
GALVALUME (ga.)		
ALUMINIZED STEEL (ga.)		
ALUMINUM (in.)	0.032	KYNAR 500
COPPER (oz.)	16, 20	MILL
TERNE METAL (ga.)	24, 26, 28, 30	MILL
ZINC (ga.)		
4. SYSTEMS RECOMMENDATIONS		
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)		
C. DECK TYPES		
SOLID DECK, WOOD	X	
SPACED SHEATHING, WOOD		
DECKING NOT REQUIRED		
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)		
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT
		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED		
B. INTERLOCKED		
C. SLIP LOCKED		
D. SNAP TOGETHER	1, 1 1/2	E
5.2 FASTENING METHOD		
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED	
B. CLIP (exposed or concealed, specify)		
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)		
6.1 DIMENSIONS		
A. WEIGHT PER ROOF SQUARE (pounds)		
B. EXPOSURE (inches)		
C. COVERAGE (approx. no. of pieces per square at listed exposure)		
6.2 INSTALLATION PROCESSING		
A. 1. THROUGH-FASTENED (exposed or concealed, specify)		
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)		
3. NUMBER OF FASTENERS PER PIECE (number or NA)		
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)		
C. ADHESIVE/SEALANT REQUIRED (yes/no)		
D. SUPPORT BATTENS REQUIRED (yes/no)		
7. MANUFACTURER/PRODUCT DATA		
A. YEAR PRODUCT FIRST SOLD	1969	
B. NUMBER OF SQUARES INSTALLED		
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS		
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO	
FOR SALES INFORMATION, CONTACT:	R. OEHME	
FOR TECHNICAL INFORMATION, CONTACT:	R. OEHME	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)		
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE	
12. SEE APPENDIX IF CHECKED		

NA=not applicable

# Wood Shakes and Shingles

1. COMPANY NAME	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.
2. PRODUCT NAME	BLACK HAWK	BLACK HAWK	GREEN RIVER
3. WOOD SPECIES	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR
4. PRODUCT STYLE AND SIZE			
A. CEDAR			
1. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 1/2 IN.)	X		X
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)		X	
3. SHAKE, TAPER-SAWN, 18-INCH			
4. SHAKE, TAPER-SAWN, 24-INCH			
5. SHINGLE, PERFECTION 18-INCH			
6. SHINGLE, ROYAL 24-INCH			
B. PINE			
1. SHAKE, TAPER-SAWN, 18-INCH X 13/16-INCH			
2. SHAKE, TAPER-SAWN, 24-INCH X 13/16-INCH			
3. SHINGLE, ROYAL 24-INCH			
C. WOOD FIBER			
1. PANEL, 12 IN. X 48 IN. X 7/16 IN.			
2. PANEL, 12 IN. X 40 IN. X 1/2 IN.			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	
6. DIMENSIONS AND COVERAGE			
A. MAXIMUM EXPOSURE (inches)	10	10	10
B. HEADLAP (inches)	14	14	14
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)	380 ±	250 ±	380 ±
D. FASTENERS REQUIRED (nails, staples, or specify)	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
7. HIP/RIDGE PIECES AVAILABLE (yes/no)			YES
8. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE	NONE
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)			
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			
9. RECOMMENDED DECKS			
A. TYPES			
1. SOLID SHEATHING	X	X	X
2. SPACED SHEATHING	X	X	X
B. MATERIAL			
1. PLYWOOD/WOOD	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X
3. WAFERBOARD	X	X	X
4. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1985	1985	1969
11. NUMBER OF SQUARES INSTALLED	160,000	275,000	800,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	400 ±	400 ±	400 ±
B. DIRECT (number of regional service locations or no)	NO	NO	NO
13. FIRE RATINGS			
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)			
B. FIRE RATING(S) AVAILABLE (per ASTM E108)			
14. ACCEPTED BY THE FOLLOWING CODES	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI
15A. FOR SALES INFORMATION, CONTACT:	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707
15B. FOR TECHNICAL INFORMATION, CONTACT:	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388
16. SEE APPENDIX IF CHECKED			

NA=not applicable

## Wood Shakes and Shingles

GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.
GREEN RIVER	GREEN RIVER	GREEN RIVER	GREEN RIVER	GREEN RIVER	SCOTT CEDAR
WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR
X					X
	X				
		X			
			X		
				X	
		NO	NO	NO	NO
10	7 1/2	10	5 1/2	7 1/2	10
14	10 1/2	14	12 1/2	16 1/2	14
250 ±	270 ±	380 +	250 +	270 +	380
NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
YES	YES	YES	YES	YES	YES
4:12	4:12	4:12	4:12	4:12	4:12
TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT	NONE	NONE	TYPE-30 FELT
NONE	NONE	NONE	NONE	NONE	NONE
			3:12	3:12	
			NONE	NONE	
			NONE	NONE	
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1969	1969	1969	1969	1969	1961
1.3 MILLION +	250,000+	580,000+	1 MILLION +	230,000+	750,000 +
400 ±	400 ±	400 ±	400 ±	400 ±	400 ±
NO	NO	NO	NO	NO	NO
ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI
M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388

# Wood Shakes and Shingles

1. COMPANY NAME	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.
2. PRODUCT NAME	SCOTT CEDAR	CEDAR PLUS	CEDAR PLUS
3. WOOD SPECIES	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR
4. PRODUCT STYLE AND SIZE			
A. CEDAR			
1. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 1/2 IN.)		X	
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)	X		X
3. SHAKE, TAPER-SAWN, 18-INCH			
4. SHAKE, TAPER-SAWN, 24-INCH			
5. SHINGLE, PERFECTION 18-INCH			
6. SHINGLE, ROYAL 24-INCH			
B. PINE			
1. SHAKE, TAPER-SAWN, 18-INCH X 13/16-INCH			
2. SHAKE, TAPER-SAWN, 24-INCH X 13/16-INCH			
3. SHINGLE, ROYAL 24-INCH			
C. WOOD FIBER			
1. PANEL, 12 IN. X 48 IN. X 7/16 IN.			
2. PANEL, 12 IN. X 40 IN. X 1/2 IN.			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. DIMENSIONS AND COVERAGE			
A. MAXIMUM EXPOSURE (inches)	10	10	10
B. HEADLAP (inches)	14	14	14
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)	250	380 +	260 +
D. FASTENERS REQUIRED (nails, staples, or specify)	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
7. HIP/RIDGE PIECES AVAILABLE (yes/no)	YES	YES	YES
8. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE	NONE
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)			
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			
9. RECOMMENDED DECKS			
A. TYPES			
1. SOLID SHEATHING	X	X	X
2. SPACED SHEATHING	X	X	X
B. MATERIAL			
1. PLYWOOD/WOOD	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X
3. WAFERBOARD	X	X	X
4. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1981	1984	1984
11. NUMBER OF SQUARES INSTALLED	1.3 MILLION +	450,000	590,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	400 ±	400 ±	400 ±
B. DIRECT (number of regional service locations or no)	NO	NO	NO
13. FIRE RATINGS			
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)		A, B, C	A, B, C
B. FIRE RATING(S) AVAILABLE (per ASTM E108)		A, B, C	A, B, C
14. ACCEPTED BY THE FOLLOWING CODES	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI
15A. FOR SALES INFORMATION, CONTACT:	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707
15B. FOR TECHNICAL INFORMATION, CONTACT:	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388
16. SEE APPENDIX IF CHECKED			

NA=not applicable



## Wood Shakes and Shingles

GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	GREEN RIVER LOG SALES LTD.	STAVE LAKE CEDAR MILLS	STAVE LAKE CEDAR MILLS
CEDAR PLUS	CEDAR PLUS	CEDAR PLUS	CEDAR PLUS	STAVE LAKE	STAVE LAKE
WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR
				X	
X					X
	X				
		X			
			X		
NO	NO	NO	NO	NO	NO
7 1/2	10	5 1/2	7 1/2	10	10
10 1/2	14	12 1/2	16 1/2	14	14
280 +	280 ±	270 ±	295 ±		
NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
YES	YES	YES	YES	YES	YES
4:12	4:12	4:12	4:12	4:12	4:12
TYPE-30 FELT	TYPE-30 FELT	NONE	NONE	TYPE-30 FELT	TYPE-30 FELT
NONE	NONE	NONE	NONE	NONE	NONE
		3:12	3:12		
		NONE	NONE		
		NONE	NONE		
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X		
1984	1984	1984	1984	1938	1938
125,000	115,000	350,000	110,000	760,000 ±	760,000 ±
400 ±	400 ±	400 ±	400 ±	60	60
NO	NO	NO	NO	NO	NO
A, B, C	A, B, C	A, B, C	A, B, C		
A, B, C	A, B, C	A, B, C	A, B, C		
ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO	ICBO
M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/663-8707 M. RUTLEDGE 800/963-3388	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745

# Wood Shakes and Shingles

1. COMPANY NAME	STAVE LAKE CEDAR MILLS	TAMARK MANUFACTURING, LLC	TAMARK MANUFACTURING, LLC
2. PRODUCT NAME	STAVE LAKE	LIFEPINE SHAKE	LIFEPINE SHAKE
3. WOOD SPECIES	WESTERN RED CEDAR	TREATED PINE	TREATED PINE
4. PRODUCT STYLE AND SIZE			
A. CEDAR			
1. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 1/2 IN.)			
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)			
3. SHAKE, TAPER-SAWN, 18-INCH			
4. SHAKE, TAPER-SAWN, 24-INCH			
5. SHINGLE, PERFECTION 18-INCH	X		
6. SHINGLE, ROYAL 24-INCH			
B. PINE			
1. SHAKE, TAPER-SAWN, 18-INCH X 13/16-INCH			X
2. SHAKE, TAPER-SAWN, 24-INCH X 13/16-INCH		X	
3. SHINGLE, ROYAL 24-INCH			
C. WOOD FIBER			
1. PANEL, 12 IN. X 48 IN. X 7/16 IN.			
2. PANEL, 12 IN. X 40 IN. X 1/2 IN.			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. DIMENSIONS AND COVERAGE			
A. MAXIMUM EXPOSURE (inches)	5 1/2	10	7 1/2
B. HEADLAP (inches)	12 1/2	14	11 1/2
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)		390	390
D. FASTENERS REQUIRED (nails, staples, or specify)	NAILS OR STAPLES	NAILS	NAILS
7. HIP/RIDGE PIECES AVAILABLE (yes/no)	YES	YES	YES
8. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NO.-30 FELT	NO.-30 FELT
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE	NONE
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	3:12	2:12	2:12
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NONE	NO.-30 FELT	NO.-30 FELT
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NONE	HOT MOP	HOT MOP
9. RECOMMENDED DECKS			
A. TYPES			
1. SOLID SHEATHING	X	X	X
2. SPACED SHEATHING	X	X	X
B. MATERIAL			
1. PLYWOOD/WOOD	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X
3. WAFERBOARD			
4. OTHER (specify)		1-IN. X 6-IN. LUMBER	1-IN. X 6-IN. LUMBER
10. YEAR PRODUCT FIRST SOLD	1938	1984	1984
11. NUMBER OF SQUARES INSTALLED	760,000 ±	110,000	25,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	60	48	48
B. DIRECT (number of regional service locations or no)	NO	26	26
13. FIRE RATINGS			
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)			
B. FIRE RATING(S) AVAILABLE (per ASTM E108)		CLASS B	CLASS B
14. ACCEPTED BY THE FOLLOWING CODES	ICBO	ICBO, BOCA, SBCCI,	ICBO, BOCA, SBCCI,
15A. FOR SALES INFORMATION, CONTACT:	C. NORTHRUP 800/4WALDUN	K. RULE 800/735-7663 912/232-0786	K. RULE 800/735-7663 912/232-0786
15B. FOR TECHNICAL INFORMATION, CONTACT:	T. FARIS 206/337-7745	K. RULE or L. WHITFIELD 800/735-7663	K. RULE or L. WHITFIELD 800/735-7663
16. SEE APPENDIX IF CHECKED		X	X

NA=not applicable

# Wood Shakes and Shingles

TAMARK MANUFACTURING, LLC	TAMARK MANUFACTURING, LLC	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS
LIFEPINE SHAKE	ROYAL SHINGLE	WALDUN	WALDUN	WALDUN	WALDUN
TREATED PINE	TREATED PINE	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR	WESTERN RED CEDAR
		X			
			X		
				X	
					X
X	X				
NO	NO	NO	NO	NO	NO
10	10	10	10	7 1/2	10
14	14	14	14	10 1/2	14
390	370				
NAILS	NAILS	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
YES	YES	YES	YES	YES	YES
4:12	4:12	4:12	4:12	4:12	4:12
NO.-30 FELT	NO.-30 FELT	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT
NONE	NONE	NONE	NONE	NONE	NONE
2:12					
NO.-30 FELT					
HOT MOP					
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1-IN. X 6-IN. LUMBER					
1984	1991	1968	1968	1968	1968
150,000	35000	800,000 ±	800,000 ±	800,000 ±	800,000 ±
48	75	100	100	100	100
73	NO	NO	NO	NO	NO
CLASS B	CLASS B				
ICBO, BOCA, SBCCI,	BOCA, SBCCI, UBC	ICBO	ICBO	ICBO	ICBO
K. RULE 800/735-7663 912/232-0786 K. RULE or L. WHITFIELD 800/735-7663	K. RULE 800/735-7663 912/232-0786 K. RULE or L. WHITFIELD 800/735-7663	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745
X	X				

# Wood Shakes and Shingles

1. COMPANY NAME	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS
2. PRODUCT NAME	WALDUN	WALDUN
3. WOOD SPECIES	WESTERN RED CEDAR	WESTERN RED CEDAR
4. PRODUCT STYLE AND SIZE		
A. CEDAR		
1. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 1/2 IN.)		
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)		
3. SHAKE, TAPER-SAWN, 18-INCH		
4. SHAKE, TAPER-SAWN, 24-INCH		
5. SHINGLE, PERFECTION 18-INCH	X	
6. SHINGLE, ROYAL 24-INCH		X
B. PINE		
1. SHAKE, TAPER-SAWN, 18-INCH X 13/16-INCH		
2. SHAKE, TAPER-SAWN, 24-INCH X 13/16-INCH		
3. SHINGLE, ROYAL 24-INCH		
C. WOOD FIBER		
1. PANEL, 12 IN. X 48 IN. X 7/16 IN.		
2. PANEL, 12 IN. X 40 IN. X 1/2 IN.		
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO
6. DIMENSIONS AND COVERAGE		
A. MAXIMUM EXPOSURE (inches)	5 1/2	7 1/2
B. HEADLAP (inches)	12 1/2	16 1/2
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)		
D. FASTENERS REQUIRED (nails, staples, or specify)	NAILS OR STAPLES	NAILS OR STAPLES
7. HIP/RIDGE PIECES AVAILABLE (yes/no)	YES	YES
8. SLOPE/INTERLAYMENT-UNDERLAYMENT RECOMMENDATIONS		
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	3:12	3:12
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NONE	NONE
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NONE	NONE
9. RECOMMENDED DECKS		
A. TYPES		
1. SOLID SHEATHING	X	X
2. SPACED SHEATHING	X	X
B. MATERIAL		
1. PLYWOOD/WOOD	X	X
2. ORIENTED-STRAND BOARD	X	X
3. WAFERBOARD		
4. OTHER (specify)		
10. YEAR PRODUCT FIRST SOLD	1968	1968
11. NUMBER OF SQUARES INSTALLED	800,000 ±	800,000 ±
12. DISTRIBUTION		
A. DISTRIBUTORS (number handling product or no)	100	100
B. DIRECT (number of regional service locations or no)	NO	NO
13. FIRE RATINGS		
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)		
B. FIRE RATING(S) AVAILABLE (per ASTM E108)		
14. ACCEPTED BY THE FOLLOWING CODES	ICBO	ICBO
15A. FOR SALES INFORMATION, CONTACT:	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN
15B. FOR TECHNICAL INFORMATION, CONTACT:	T. FARIS 206/337-7745	T. FARIS 206/337-7745
16. SEE APPENDIX IF CHECKED		

NA=not applicable

# Slate

1. COMPANY NAME	BUCKINGHAM-VIRGINIA SLATE CORPORATION		EVERGREEN SLATE COMPANY, INC.	
2. PRODUCT DESCRIPTION	BUCKINGHAM UNFADING		VERMONT ROOFING SLATE	
3. TEXTURES	THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)
	3/16-1/4	800-900	3/16-1/4	700-800
	FULL 1/4	900	1/4-3/8	1,000
	FULL 3/8	1,100	3/8-1/2	1,500
A. STANDARD SMOOTH	FULL 1/2	1,700	1/2-3/4	2,200
	1/2-3/4	2,300	3/4-1	3,400
	3/4-1	3,200		
	3/16, 1/4, 3/8, 1/2, 3/4, 1	NA	3/16, 1/4, 3/8, 1/2, 3/4, 1	AVG. 1,800
B. ROUGH				
C. GRADUATED-TEXTURAL				
4. SIZES	LENGTHS (inches)	STANDARD WIDTHS (inches)	LENGTHS (inches)	STANDARD WIDTHS (inches)
	24	16, 14, 13, 12	24	14, 12
	22	14, 13, 12, 11	22	14, 12, 11
	20	14, 13, 12, 11	20	14, 12, 11, 10
	18	14, 13, 12, 11	18	14, 12, 11, 10
	16	14, 12, 11, 10	16	14, 12, 11, 10
	14	12, 11, 10, 9, 8	14	14, 12, 11, 10
	12	10, 9, 8, 7, 6	12	12, 10, 9, 8, 7
5. COLORS AVAILABLE (specify: weathering, semi-weathering, unfading, semi-unfading, or X.)				
A. BLACK				
B. BLUE-BLACK				
C. GRAY				
D. BLUE-GRAY				
E. GRAY-BLACK				
F. MOTTLED GRAY-BLACK				
G. GRAY-GREEN				
H. GREEN				
I. MOTTLED GRAY-GREEN				
J. PURPLE				
K. MOTTLED PURPLE/GREEN				
L. GREEN				
M. PURPLE VARIEGATED				
N. RED				
6. SLOPE/UNDERLAYMENT RECOMMENDATIONS				
A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot)				
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION				
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)				
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION				
7. RECOMMENDED DECKS				
A. TYPES				
1. SOLID SHEATHING				
2. SPACED SHEATHING				
B. MATERIAL				
1. PLYWOOD/WOOD				
2. ORIENTED STRAND BOARD				
3. WAFERBOARD				
4. OTHER (specify)				
8. FLASHING MATERIAL	COPPER, TIN, LEAD, GALVANIZED IRON, OR ZINC		COPPER, STAINLESS STEEL	
9. YEAR PRODUCT FIRST SOLD	1876		1916	
10. NUMBER OF SQUARES INSTALLED	300,000		5 MILLION	
11. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)				
B. DIRECT (number of regional service locations or no)				
12. TECHNICAL INFORMATION				
COMPLIES WITH ASTM STANDARD C 406-89 (1996) STANDARD SPECIFICATION FOR ROOFING SLATE (grade: check one)				
GRADE S <sub>1</sub> Over 75 years service life				
GRADE S <sub>2</sub> 40 to 75 years service life				
GRADE S <sub>3</sub> 20 to 40 years service life				
13A. FOR SALES INFORMATION, CONTACT:	804/581-1131		J. CRAMER, J. BAKER 518/642-2530	
13B. FOR TECHNICAL INFORMATION, CONTACT:	804/581-1131		J. CRAMER, J. BAKER 518/642-2530	
14. SEE APPENDIX IF CHECKED			X	

NA=not applicable

# Slate

HILLTOP SLATE INC.			NEWFOUNDLAND SLATE INC.			PENN BIG BED SLATE COMPANY, INC.		
VERMONT AND NEW YORK NATURAL SLATE			NATURAL ROOFING SLATE			PENNSYLVANIA SLATE		
THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)		THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)		THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	
3/16-1/4	700-800		3/16-1/4	650-800		3/16	750	
3/16-1/4-3/8	825-1,000		1/4-3/8	800-1,200		1/4	800	
FULL 1/4	900		3/8-1/2	1,200-1,800				
FULL 3/8	1,100							
FULL 1/2	1,700							
FULL 3/4	2,300							
FULL 1	3,400							
3/16, 1/4, 3/8, 1/2, 3/4, 1	NA							
LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)	LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)	LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)
24	16, 14, 12	10 1/2	24	14, 12	10 1/2	24	14, 12	10 1/2
22	16, 12, 11	9 1/2	22	14, 12, 11	9 1/2	22	12, 11	9 1/2
20	14, 12, 11, 10	8 1/2	20	14, 12, 10	8 1/2	20	12, 11, 10	8 1/2
18	14, 12, 11, 10,	7 1/2	18	12, 10, 9	7 1/2	18	12, 11, 10, 9	7 1/2
16	14, 12, 11, 10,	6 1/2	16	12, 10, 8	6 1/2	16	12, 11, 10, 9, 8	6 1/2
14	14, 12, 11, 11,	5 1/2	14	12, 10, 8	5 1/2	14	12, 11, 10, 9	5 1/2
12	12, 10, 9, 8, 7,	4 1/2	12	10, 8	4 1/2	12	10, 9, 8, 7, 6	4 1/2
10	10, 9, 8, 7, 6	3 1/2						
SEMI-WEATHERING UNFADING SEMI-WEATHERING SEMI-WEATHERING SEMI-WEATHERING UNFADING UNFADING UNFADING UNFADING SEMI-WEATHERING UNFADING			UNFADING UNFADING SEMI-WEATHERING, UNFADING X X X UNFADING UNFADING UNFADING UNFADING UNFADING UNFADING UNFADING			UNFADING		
4:12 30-LB FELT			8:12 30-LB FELT					
			4:12 ICE/WATER SHIELD					
			X X X			X		
			2" X 3" WOODEN BATTENS			LUMBER		
			COPPER, LEAD			COPPER, GALVANIZED		
1948			1988			1934		
275000			83,000			140,000 +		
3			10					
1			1			1		
X			X			X X		
J. CONLON 518/642-2270 J. CONLON 518/642-2270			DAVE LARGE 800/975-2835 DAVE LARGE 800/975-2835			P. PAPAY 610/767-4601 P. PAPAY 610/767-4601		
						X		

# Slate

1. COMPANY NAME	RISING & NELSON SLATE COMPANY, INC.		
2. PRODUCT DESCRIPTION	NEW YORK/VERMONT ROOFING SLATE		
3. TEXTURES	THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	
A. STANDARD SMOOTH	3/16-1/4	700-850	
B. ROUGH	3/16-1/4-3/8	850-1,050	
	1/4-3/8	1,000	
	3/8-1/2	1,500	
	1/2-3/4	2,300	
	3/4-1	3,200	
C. GRADUATED-TEXTURAL	3/16, 1/4, 3/8, 1/2, 3/4, 1	NA	
4. SIZES	LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)
	24	16, 14, 12	10 1/2
	22	16, 12, 11	9 1/2
	20	14, 12, 11, 10	8 1/2
	18	14, 12, 11, 10,	7 1/2
	16	14, 12, 11, 10,	6 1/2
	14	14, 12, 11, 19,	5 1/2
	12	12, 10, 9, 8, 7,	4 1/2
	10	10, 9, 8, 7, 6	3 1/2
5. COLORS AVAILABLE (specify: weathering, semi- weathering, unfading, semi-unfading, or X.)			
A. BLACK	X		
B. BLUE-BLACK	UNFADING		
C. GRAY	SEMI-WEATHERING		
D. BLUE-GRAY	SEMI-WEATHERING		
E. GRAY-BLACK	SEMI-WEATHERING		
F. MOTTLED GRAY-BLACK	SEMI-WEATHERING		
G. GRAY-GREEN	SEMI-WEATHERING		
H. GREEN	X		
I. MOTTLED GRAY-GREEN	UNFADING		
J. PURPLE	UNFADING		
K. MOTTLED PURPLE/GREEN	UNFADING		
L. GREEN	SEMI-WEATHERING		
M. PURPLE VARIEGATED	UNFADING		
N. RED	UNFADING		
6. SLOPE/UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot)	5:12		
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	30-LB FELT		
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)			
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			
7. RECOMMENDED DECKS			
A. TYPES			
1. SOLID SHEATHING	X		
2. SPACED SHEATHING	X		
B. MATERIAL			
1. PLYWOOD/WOOD	X		
2. ORIENTED STRAND BOARD			
3. WAFERBOARD			
4. OTHER (specify)			
8. FLASHING MATERIAL			
9. YEAR PRODUCT FIRST SOLD	1869		
10. NUMBER OF SQUARES INSTALLED	300,000		
11. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			
B. DIRECT (number of regional service locations or no)	1		
12. TECHNICAL INFORMATION			
COMPLIES WITH ASTM STANDARD C 406-89 (1996) STANDARD SPECIFICATION FOR ROOFING SLATE (grade: check one)			
GRADE S <sub>1</sub> Over 75 years service life	X		
GRADE S <sub>2</sub> 40 to 75 years service life			
GRADE S <sub>3</sub> 20 to 40 years service life			
13A. FOR SALES INFORMATION, CONTACT:	S. WILLIAMS 518/642-3333		
13B. FOR TECHNICAL INFORMATION, CONTACT:	S. WILLIAMS 518/642-3333		
14. SEE APPENDIX IF CHECKED	X		

NA=not applicable

# Synthetic Roof Components

1. COMPANY NAME	AIR VENT INC.	AIR VENT INC.	OWENS CORNING
2. PRODUCT NAME	SHINGLE-VENT II	FILTER VENT	MIRVA VISTA SHAKE
3.1 STYLE A. SIMULATED SHINGLE (specific type if applicable) B. SIMULATED SHAKE (specific type if applicable) C. SIMULATED SLATE (specific type if applicable) D. SIMULATED TILE (specific type if applicable) E. OTHER (specify) F. NUMBER OF COLORS AVAILABLE	SHINGLE OVER 4	RIDGE VENT 8	X 3
3.2 COMPONENT TYPE A. PANEL B. INDIVIDUAL COMPONENT	X		X
4. AVAILABILITY RESTRICTED REGIONALLY(yes/no)	NO		YES
5. MATERIAL COMPOSITION	HIGH-DENSITY COPOLYMER	ALUMINUM	SLATE, CLAY, RESIN
6. DIMENSIONS AND COVERAGE A. DIMENSIONS (inches x inches) B. EXPOSURE (inches) C. HEADLAP (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds) F. FASTENERS REQUIRED (nails, staples, or specify)	14 X 48     NAILS	5 X .96	13.3 X 22, 7.8 X 22, 5.5 X 22 10 MAX. 12 450 NAILS
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	3:12	3:12	4:12 30-LB. FELT 3:12 TYPE 30
8. APPROVED DECKS A. TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify)	X X  X X X	X X  X X X	X X  X X X
9. YEAR PRODUCT FIRST SOLD	1988	1984	1996
10. NUMBER OF SQUARES INSTALLED			
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	1,200 1	1,200 1	
12. TECHNICAL INFORMATION A. FIRE/WIND RATINGS 1. FIRE RATING(S) [specify standard(s) and rating(s)] 2. WIND UPLIFT RATING(S) [specify standard(s) and rating(s)] B. TEST RESULTS METHOD RESULTS METHOD RESULTS METHOD RESULTS METHOD RESULTS METHOD RESULTS	CLASS C  NONE	CLASS A  NONE	CLASS A
13. ACCEPTED BY THE FOLLOWING CODES	BOCA (90-56), SBCCI (9528), METRO-DADE COUNTY, FL	SBCCI (9528), METRO-DADE COUNTY, FL	ICBO (ER-5209)
14A. FOR SALES INFORMATION, CONTACT:	S. DOUBET 800/247-8368	S. DOUBET 800/247-8368	800/GET-PINK
14B. FOR TECHNICAL INFORMATION, CONTACT:	S. DOUBET 800/247-8368	S. DOUBET 800/247-8368	800/ROOFING
15. SEE APPENDIX IF CHECKED			

NA=not applicable



# Underlayment Sheets

1. COMPANY NAME	ALCO-NVC INC.	ALCO-NVC INC.	ALCO-NVC INC.
2. PRODUCT NAME OR DESCRIPTION	ALCO SHIELD ICE & WATER PROTECTOR 100	ALCO SHIELD ICE & WATER PROTECTOR 195	ALCO SHIELD ICE & WATER PROTECTOR 200
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)			
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERED 36 100 39	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERED 36 195 76	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERED 36 200 78
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X X X X X X X	X X X X X X X	X X X X X X X
7. YEAR PRODUCT FIRST SOLD	1996	1996	1996
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	125	125	125
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	YES	YES
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)			
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	B. BAIR 800/323-0029 E. KARPINSKI 800/323-0029	B. BAIR 800/323-0029 E. KARPINSKI 800/323-0029	B. BAIR 800/323-0029 E. KARPINSKI 800/323-0029
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

ALCO-NVC INC.	ANDEK CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
ALCO SHIELD ICE & WATER PROTECTOR 225	FLASHBAND	NO. 15 STANDARD SATURATED FELT	NO. 30 STANDARD SATURATED FELT	NO. 15 SPECIFICATION FELT	NO.30 SPECIFICATION FELT
X	X	X	X	X	X
		NO. 15	NO. 30	NO. 15	NO. 30
		36 432	36 216	36 432	36 216
MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERED 36 225 88	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERED 28 77 33				
NO	NO	NO	NO	NO	NO
X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X
1996	1973	1982	1982	1978	1978
	3.5 MILLION				
125	127 14				
YES		NO	NO	YES	YES
	NA	NA	NA	NA	NA
	NA	NA	NA	X	X
	NA	NA	NA	NA	NA
	NA	X	X	NA	NA
YES		NA	NA	NA	NA
	ICBO	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI
B. BAIR 800/323-0029 E. KARPINSKI 800/323-0029	H. LISS N. SHEARER	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478
		X	X	X	X

## Underlayment Sheets

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME OR DESCRIPTION	STORMMASTER DG ICE & WATER PROTECTION	NO. 43 BASE SHEET	SLATE/TILE UNDERLAYMENT
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)		NO. 43  36 234	
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)	MODIFIED BITUMEN 1 SBS SELF-ADHERED 36 432		
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X X X X X X X	X X X X X	X X X X
7. YEAR PRODUCT FIRST SOLD		1978	1992
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	NO	
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA NA NA NA NA NA YES NA YES	NA NA NA NA NA NA NA YES NA NA	NA NA NA NA NA NA NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI
13A. FOR SALES INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478
13B. FOR TECHNICAL INFORMATION, CONTACT:			
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

## Underlayment Sheets

ATLAS ROOFING CORPORATION	BPCO	BPCO	BPCO	BPCO	BPCO
PREMIUM FLAT FELT (PFF)	PROGARD WATERPROOFING MEMBRANE	SMOOTH SURFACE	ESGARD NO. 15 PLAIN	ESGARD TYPE 15	ESGARD TYPE 15 ALL PURPOSE
X	X	X	X	X	X
COMPOSITE		TYPE I (D 224)	TYPE I (D 226)	TYPE 15	TYPE 15
36 432		36 107 60.52	36 432 52	36 432 44.11	36 432 38.4
	MODIFIED BITUMEN 1' MODIFIED ASPHALT SELF-ADHERING				
	36 195 65				
NO	YES	YES	YES	YES	YES
X	X	X	X	X	X
1997	1991	1926	1924	1986	1986
YES					
NA	NA	X	NA	NA	NA
NA	NA	NA	X		
NA	NA	NA	NA	NA	NA
NA	NA				
NA	YES	NA	NA	NA	NA
ATLAS REGIONAL SALES OFFICES (SEE APPENDIX 770/933-4478)	BP SALES P. BACCHIONI 973/595-6695	BP SALES P. BACCHIONI 973/595-6695	BP SALES P. BACCHIONI 973/595-6695	BP SALES P. BACCHIONI 973/595-6695	BP SALES P. BACCHIONI 973/595-6695
X					

## Underlayment Sheets

[illegible]

NA=not applicable

## Underlayment Sheets

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
VABORBAR ORGANIC BASE SHEET	CELOGUARD SHINGLE UNDERLAYMENT	TILE UNDERLAYMENT	ROOFER'S SELECT	WINTERGUARD WATER-PROOFING SHINGLE UNDERLAYMENT	WINTERGUARD W.S.U. SHORT ROLL
X	X	X	X	X	X
TYPE I (D 224)			COMPOSITE		
36 216/162 80/60		36 168 73	36 432 44		
	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING			MODIFIED ASPHALT MODIFIED ASPHALT SELF-ADHERED	MODIFIED ASPHALT MODIFIED ASPHALT SELF-ADHERED
	36 100/200 45/90			36 195 69	36 97.5 36
NO	NO	YES	NO	NO	NO
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
			1998	1987	1991
			YES NO		
NO	YES	YES	YES	YES	YES
X	NA		NA	NA	NA
NA	NA	NA	NA	NA	NA
YES	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	YES	NA	NA	YES	YES
800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	WISCONSIN LOCAL OFFICE 800/322-3060	WISCONSIN DILHR LOCAL OFFICE 800/322-3060	WISCONSIN DILHR LOCAL OFFICE 800/322-3060
				X	X

# Underlayment Sheets

1. COMPANY NAME	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION
2. PRODUCT NAME OR DESCRIPTION	F10 SHAKELINER	F12 SHAKELINER	F15 TYPE 30 ASTM SHAKELINER
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	NO. 30 SHAKE FELT 18 180 27	NO. 30 SHAKE FELT 18 180 32	TYPE II (D226) SHAKE FELT 18 180 48
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X	X	X
7. YEAR PRODUCT FIRST SOLD	1988	1988	1988
8. NUMBER OF SQUARES INSTALLED	1 MILLION +	1 MILLION +	1 MILLION +
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	1,000 +	1,000 +	1,000 +
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	NO	NO	YES
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA	NA	NA
12. ACCEPTED BY THE FOLLOWING CODES			BOCA, ICBO, SBCCI
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION
F20 2-SQUARE NO. 30 FELT	F22 2-SQUARE NO. 30 FELT	F25 2-SQUARE TYPE 30 ASTM FELT	F30 3-SQUARE NO. 15 FELT	F32 3-SQUARE NO. 15 FELT	F35 3-SQUARE TYPE 15 ASTM FELT
X	X	X	X	X	X
NO. 30	NO. 30	TYPE II (D 226)	NO. 15	NO. 15	TYPE I (D 226)
36	36	36	36	36	36
216	216	216	324	324	324
32	38	60	28	31	41
NO	NO	NO	NO	NO	NO
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1988	1988	1988	1988	1988	1988
1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +
1,000 +	1,000 +	1,000 +	1,000 +	1,000 +	1,000 +
NO	NO	YES	NO	NO	YES
NA	NA	NA	NA	NA	NA
NA	NA	TYPE II	NA	NA	TYPE I
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	BOCA, ICBO, SBCCI	NA	NA	BOCA, ICBO, SBCCI
M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098



## Underlayment Sheets

[illegible]

NA=not applicable

## Underlayment Sheets

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
SHINGLE-MATE	WEATHER WATCH	STORMGUARD WATER-PROOF UNDERLAYMENT	SHINGLE UNDERLAYMENT	#15 PLAIN FELT	#15 PREMIUM
X	X	X	X	X	X
COMPOSITE			NO. 15	NO. 15	TYPE I (D 226)
36 400 30			36 400	36 432	36 432
	MODIFIED BITUMEN 1' MODIFIED ASPHALT SELF-ADHERING	MODIFIED BITUMEN 1' MODIFIED ASPHALT SELF-ADHERING			
	36 150 70	36 200 67			
NO	NO	NO	NO	NO	NO
X	X	X	X	X	X
	X	X			
			X		
1984	1987	1997	1987	1955	
NO	YES	YES	YES	YES	
NA	NA	NA	NA	NA	NA
NA	NA	NA			X
NA	NA	NA	NA	NA	NA
NA	NA	NA			
NA	NO	NO	NA	NA	NA
GAF REGIONAL SALES OFFICE 800/ROOF-411	GAF REGIONAL SALES OFFICE 800/ROOF-411	GAF REGIONAL SALES OFFICE 800/ROOF-411	219/473-4500 219/473-4500	219/473-4500 219/473-4500	219/473-4500 219/473-4500
X	X	X			



## Underlayment Sheets

GLOBE BUILDING MATERIALS, INC.	GS ROOFING ROOFING PRODUCTS, CO.	GS ROOFING ROOFING PRODUCTS, CO.	GS ROOFING ROOFING PRODUCTS, CO.	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY
EAVE & VALLEY SHIELD	STORMSHIELD/BLACK DIAMOND BASE SHEET	#15 PLAIN FELT-UL	#30 PLAIN FELT-UL	#402 SATELLITE TYPE 15	#404 SATELLITE TYPE 30
		X	X	X	X
X	X				
		TYPE I (D 266)	TYPE II (D 266)	TYPE I (D 226)	TYPE II (D 226)
		36 432 54	36 216 54	36 432 55	36 216 55
MODIFIED BITUMEN 1' MODIFIED ASPHALT SELF-ADHERING 36 195 75	MODIFIED BITUMEN 1' MODIFIED ASPHALT SELF-ADHERING 36 95/195/225 35/68/78				
NO	NO	NO	NO	YES	YES
X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X
1990				1957	1957
	MILLIONS	MILLIONS	MILLIONS		
	300+ NO	300+ NO	300+ NO	100+	100+
	YES	YES	YES		
NA	NA	NA	NA	NA	NA
NA	NA	X	X	X	X
NA	NA	YES	YES	NA	NA
NA	NA			X	X
	YES	NA	NA	NA	NA
	ICBO, FM, METRO-DADE COUNTY, FL. 972/580-5604	ICBO, METRO-DADE COUNTY, FL. 972/580-5604	ICBO, METRO-DADE COUNTY, FL. 972/580-5604	ICBO G. MALARKEY 800/545-1191 J. DECHANDT, M. MALARKEY	ICBO G. MALARKEY 800/545-1191 J. DECHANDT, M. MALARKEY
219/473-4500	972/580-5600	972/580-5600	972/580-5600		
219/473-4500					
	X	X	X		

# Underlayment Sheets

1. COMPANY NAME	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY	MALARKEY ROOFING COMPANY
2. PRODUCT NAME OR DESCRIPTION	#405 SATELLITE TYPE 30 SHAKELINER	ARCTIC SEAL #170	#501 UDL SBS UNDERLAYMENT
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X    X	   X X	X X X X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	TYPE II (D 226) SHAKE FELT 18 180 45		TYPE II (D 226)  39 20 75
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)		MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 225 70	MODIFIED BITUMEN 1 MODIFIED ASPHALT 39 200 75
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	      X	X X X X X X X WATERPROOFING	X  X X X X X
7. YEAR PRODUCT FIRST SOLD	1957	1993	1997
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	100+	100+	100+
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)			
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA      X  NA  X  NA YES	NA  NA  NA  NA  YES	NA     X  NA  NA
12. ACCEPTED BY THE FOLLOWING CODES	ICBO	ICBO	
13A. FOR SALES INFORMATION, CONTACT:	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. DECHANDT, M. MALARKEY	J. DECHANDT, M. MALARKEY	J. DECHANDT, M. MALARKEY
14. SEE APPENDIX IF CHECKED			

NA=not applicable

## Underlayment Sheets

MONSEY BAKOR	MONSEY BAKOR	MONSEY BAKOR	OWENS CORNING	OWENS CORNING	PABCO ROOFING PRODUCTS
EAVEGUARD SHINGLE UNDERLAYMENT	PERMA-SEAL FG METAL ROOF & TILE UNDERLAYMENT	PERMA-SEAL PE METEL ROOF & TILE UNDERLAYMENT	WEATHERLOCK POLYETHYLENE SURFACE	WEATHERLOCK GRANULATED SURFACE	ICE & WATER GUARD
X	X	X	X	X	X
MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING 36 100/195/225 37/78/90	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING 36 225 75	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING 36 225 70	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING 36 100/200	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERING 36 100/200	MODIFIED BITUMEN MODIFIED ASPHALT SELF-ADHERED 36 225 54
NO			YES	YES	YES
X	X	X	X	X	X
	X	X	X	X	X
	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1983	1990	1998	1994	1997	1986
800,000 +					
200 + NO	200+ NO	200+ NO			100 NO
YES					YES
			NA	NA	
NA			NA	NA	
NA			NA	NA	
NA			NA	NA	
YES	NO	NO	YES	YES	YES
D 5147-91					
			ICBO	ICBO	ICBO
W. MULLEN 800/523-0268 D. TAYLOR 800/397-9598	W. MULLEN 800/523-0268 D. TAYLOR 800/397-9598	W. MULLEN 800/523-0268 D. TAYLOR 800/397-9598	800/GET-PINK  800/GET-PINK	800/GET-PINK  800/GET-PINK	R. VANDENBERG 253/272-0374 S. DINWIDDIE 606/898-6266

# Underlayment Sheets

1. COMPANY NAME	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.
2. PRODUCT NAME OR DESCRIPTION	SHAKE UNDERLAYMENT	MASTER SMOOTH	NAIL-FAST
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	SHAKE FELT 18 180 40	TYPE II (D 224) 36 108 55	D 224, D 2626 TILE UNDERLAYMENT 36 216 86
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X	X	X
7. YEAR PRODUCT FIRST SOLD			
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	NO	NO	
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 f <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 f <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 f <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 f <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA TYPE 1 NA NA NA NA NA NA	TYPE 1 NA NA NA NA NA NA NA	TYPE 1 NA YES NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT:	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644
14. SEE APPENDIX IF CHECKED			

NA=not applicable

## Underlayment Sheets

TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.
NO. 30 UL	NO. 30	NO. 30-18" FELT	NO. 15	MOISTURE GUARD PLUS	NO. 15 UL
X				X	X
TYPE II (D 226)	NO. 30	NO. 30 SHAKE	NO. 15		TYPE I (D 226)
36 216 57	36 216 43	18 108 22	36 432 36		36 432 54
				MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 108/225 43/86	
NO	NO	NO	NO	NO	NO
X	X		X	X	X
		X	X		
YES	YES	NO	YES	YES	YES
NA	NA	NA	NA	NA	NA
X	NA	NA	NA	NA	X
NA	NA	NA	NA	NA	NA
		NA	NA	NA	YES
NA	NA	NA	NA	YES	NA
METRO-DADE COUNTY, FL					METRO-DADE COUNTY, FL
DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE
TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644



## Underlayment Sheets

1. COMPANY NAME	TAMKO ROOFING PRODUCTS, INC.	TC MIRADRI	TC MIRADRI
2. PRODUCT NAME OR DESCRIPTION	NO. 150	MIRADRI WIP 100	MIRADRI WIP 200
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X		
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	NO. 15 36 432 45		
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)		MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 100/200 35/65	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 200 65
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X	X X X X	X X X X
7. YEAR PRODUCT FIRST SOLD		1996	1996
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)		200+ NO	200+ NO
10. UL-CERTIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	YES	YES
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA NA NA NA NA NA NA	NA NA NA NA NA NA YES	NA NA NA NA NA YES
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT:	DISTRICT OFFICE	TC MIRADRI 800/464-7234	TC MIRADRI 800/464-7234
13B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICES 417/624-6644	W. HARVIE 888/464-7234	W. HARVIE 888/464-7234
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

TC MIRADRI	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
MIRADRI WIP 300 HT	SHINGLE FELT	#15 W	#30 W	#15 ASTM	#30 ASTM & GOLDLINE & U/L
	X	X	X	X	X
X					
	TYPE I (D 4869)	TYPE I (D 4869)	NO. 30	TYPE I (D 226)	TYPE II (D 226)
36	36	36	36	36	36
432	432	432	216	432	216
36	40	40	40	50	57
MODIFIED BITUMEN					
MODIFIED ASPHALT					
SELF-ADHERING					
36					
200					
65					
	NO	NO	NO	NO	NO
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
HIGH TEMP APPLICATION:					
1996	1984	1988	1988	1978	1978
	3 MILLION	18 MILLION	3.5 MILLION	72 MILLION	18 MILLION
200+	200 ±	200 ±	200 ±	200 ±	200 ±
NO	NO	NO	NO	NO	NO
YES	YES	YES	YES	YES	YES
NA	NA	NA	NA	NA	NA
NA				X	X
NA	NA	NA	NA	NA	NA
NA	X	X		NA	NA
YES	NA	NA	NA	NA	NA
					METRO.-DADE COUNTY, FL
TC MIRADRI 800/464-7234 W. HARVIE 8088464-7234	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358

# Underlayment Sheets

1. COMPANY NAME	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
2. PRODUCT NAME OR DESCRIPTION	#15 U/L	#15	#30
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X . . . .	X . . . .	X . . . .
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	TYPE I (D 226) 36 432 57	TYPE I (D 4869) 36 432 44	TYPE II (D 4869) 36 216 44
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X X X X X X X	X X X X X X X	X X X X X X X
7. YEAR PRODUCT FIRST SOLD	1978	1982	1982
8. NUMBER OF SQUARES INSTALLED	72 MILLION	72 MILLION	18 MILLION
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	200 ± NO	200 ± NO	200 ± NO
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	YES	YES
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8lb/100 f <sup>2</sup> Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 f <sup>2</sup> Type III—Minimum net mass per unit area of roofing, 51.1lb/100 f <sup>2</sup> Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 f <sup>2</sup> B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlaymen E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA NA NA X NA NA NA NA NA NA	NA NA NA NA X NA NA NA NA NA NA	NA NA NA NA X NA NA NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358
14. SEE APPENDIX IF CHECKED			

NA=not applicable

## Underlayment Sheets

WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	W.R. GRACE & CO.– CONN.	W.R. GRACE & CO.– CONN.	W.R. GRACE & CO.– CONN.
#30 SPLIT FELT	#30 SHAKE LINER	WARRIOR CHOICE	VYCOR ICE & WATER SHIELD	VYCOR SELECT	VYCOR ULTRA
X	X	X			
			X	X	X
NO. 30 SHAKE FELT	TYPE II (D 226) SHAKE FELT	TYPE 1 (D4869)			
18 108 22	18 108 29	36 400 30			
			MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING	BUTYL 1 BUTYL SELF-ADHERING
			36 108/225 35/67	36 108 34	34 198 43
NO	NO	NO	NO	NO	NO
		X	X	X	X
		X	X	X	X
		X	X	X	X
		X	X	X	X
X	X	X	X	X	X
		X	X	X	X
1989	1989	1994	1978	1997	1997
5 MILLION	1 MILLION	< 1 MILLION			
200 ±	200 ±	< 100			
NO	NO	NO	YES	YES	YES
NO	NO	NO			
NA	NA	NA	NA	NA	NA
	X		NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	X	NA	NA	NA
NA	NA		YES		
			ICBO, SBCCI, BOCA, L.A. CALIF HUD METRO-DADE COUNTY, FL	ICBO	ICBO
B. LA RUE 800/749-3358	B. LA RUE 800/749-3358	B. LA RUE 800/749-3358	800/444-6459	800/444-6459	800/444-6459
D. CARDEN 800/749-3358	D. CARDEN 800/749-3358	D. CARDEN 800/749-3358	800/444-6459	800/444-6459	800/444-6459