

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

**The information source on residential steep-slope  
roof membrane products for the roof designer,  
specifier, installer, manufacturer, and user**

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# Introduction

## **Residential Steep-Slope Roofing Materials Guide**

This fifth annual edition of the *Residential Steep-Slope Roofing Materials Guide*, published by the National Roofing Contractors Association, is a comprehensive report on steep-slope roof membrane products used primarily, but by no means exclusively, in the residential market. It also provides pertinent information on the companies that manufacture and/or market these products. The *Residential Guide* is published as a service to the roofing industry. Its objective is to provide information 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 residential and/or steep-slope roof systems.

The NRCA *Residential Steep-Slope Roofing Materials Guide* 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 *Residential 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, 10255 W. Higgins Road, Suite 600, Rosemont, Ill. 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 *Residential 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 *Residential 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.

Readers should bear in mind that there are products regularly used in residential applications that are to be

found in NRCA's companion publication, the *Commercial Low-Slope Roofing Materials Guide*; among these are modified bitumen membrane sheets, some metal roof systems with both architectural and structural applications, and roofing felts. So, when applied to the roofing market, the terms *residential steep-slope* and *commercial low-slope* are by no means definitive. Even granting a generally accepted definition of *steep* for a roof exceeding a pitch of 3 (or 4) in 12, such roofs are commonly used in commercial applications (e.g., offices, restaurants), and low-slope roofs are employed regularly in residential structures (e.g., porches, car ports, garages, townhouses). Tradition, however, tends to associate specific kinds of products with either residential or commercial applications regardless of the true (or changing) use of the material. It is primarily for this reason that the division of product categories, as well as the titles, have been adopted for NRCA's two product directories.

### **How the Residential Steep-Slope Guide is Organized**

The *Residential Guide* is divided by product category into nine different sections. There is an overall index of manufacturers/dealers 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 *Residential Guide*, the user should keep in mind that the format is designed to facilitate the side-by-side comparison of products. For this reason, listers can only respond to existing items of requested information; they cannot add their own. Nor is footnoting permitted in *Guide* listings; listers instead may expand on or clarify an item of information by providing copy for the Appendix.

### **Technical Information on Products in the Residential Guide**

There are generally three categories of technical information for which data is requested in the *Residential 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 specifi-

cations and/or standard test methods; and (3) building code approvals by code setting bodies and/or governmental jurisdictions; these include Building Officials & Code Administrators International, Inc. (BOCA), Southern Building Code Congress International (SBCCI), International Conference of Building Officials (ICBO), and several municipal and regional jurisdictions.

In the majority of cases, the data requested is for 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 by 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 reference standards or tests for fire and wind ratings in the *Residential Guide* are:

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

ASTM Standard E 108-93 *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 3161-93 *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 *Class I Roof Covers, Class Number 4470*, discussed in more detail below.

**Underwriters Laboratories (UL) Standards** The performance criteria for roof covering material and ratings of individual products are published in UL's *Roofing Materials and Systems Directory*, available from UL; the ratings derive 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. (A full description of these tests is also available from UL.) 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...."

It should be pointed out that an individual product 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 *Residential Guide* is 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 wind velocities of 73 to 174 miles per hour.

**Factory Mutual (FM)** 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 the *FM 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 (I60, I90)** The "I" in the windstorm rating refers to the Class I fire rating possessed by the roof assembly; the number 60 or 90 refers to the wind pressure in pounds per square foot that the roof assembly was subjected to.

**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 *Residential 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 listers in the *Residential 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 *Residential Guide*, 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 *Residential Guide* and the product categories to which they apply are:

Standard	Product Category
ASTM D 225 <i>Standard Specification for Asphalt Shingles (Organic Felt)</i>	Asphalt Shingles

## Surfaced with Mineral Granules

ASTM D 3018 <i>Standard Specification for Class A Shingles Surfaced with Mineral Granules</i>	Asphalt Shingles
ASTM D 3462 <i>Standard Specification for Asphalt Shingles Made from Glass Felt and Surfaced with Mineral Granules</i>	Asphalt Shingles
ASTM C 1167 <i>Standard Specification for Clay Roof Tile</i>	Clay Tile
ASTM C 408 <i>Standard Specification for Roofing Slate</i>	Slate
ASTM E 283 <i>Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen</i>	Metal Roof Components
ASTM E 331 <i>Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference</i>	Metal Roof Components
ASTM D 224 <i>Standard Specification for Smooth-Surfaced Asphalt Roll Roofing (Organic Felt)</i>	Underlayment Sheets
ASTM D 226 <i>Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing</i>	Underlayment Sheets
ASTM D 2626 <i>Standard Specification for Asphalt-Saturated and Coated Organic Felt Base Sheet Used in Roofing</i>	Underlayment Sheets
ASTM D 4869 <i>Standard Specification for Asphalt-Saturated Organic Felt Shingle Underlayment Used in Roofing</i>	Underlayment Sheets
ASTM D 1970 <i>Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used As Steep Roofing Underlayment for Ice Dam Protection</i>	Underlayment Sheets

With the exception of ASTM E 283 and ASTM E 331, listers 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 *Residential Guide*.

It should be pointed out that the abbreviation *NA* is used throughout the *Residential 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 lister 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 *Residential Guide* will delete the *NA*, and no response will appear. Although the reader cannot know whether the space was left blank by the lister or was rendered blank editorially, the net effect is the same.

**SBCCI** publishes *Standard Building Code — Edition*;  
900 Montclair Rd., Birmingham, Ala. 35213

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

## Building Code Approvals

For many of the product categories in the *Residential Guide* is a space for listers 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 Rd., Country Club Hills, Ill. 60477

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

## ***Residential Steep-Slope Roofing Materials Guide Order Form***

Please enter my order for the most recent edition of the *Residential Steep-Slope Roofing Materials Guide*.

### **Per-Copy Cost**

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☐ Enclosed is a check in the amount of \$\_\_\_\_\_.

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Exp. date

\_\_\_\_\_  
Authorized signature

Payment must accompany order. Please make check payable to NRCA and mail to: National Roofing Contractors Association, P.O. Box 809261, Chicago, IL 60680-9261.



# Information on Residential Steep-Slope Roof 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 (see Fig. 1). 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 or four tabs that are exposed along the length of the shingle for visual effect. Strip shingles are also produced without cutouts 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 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.

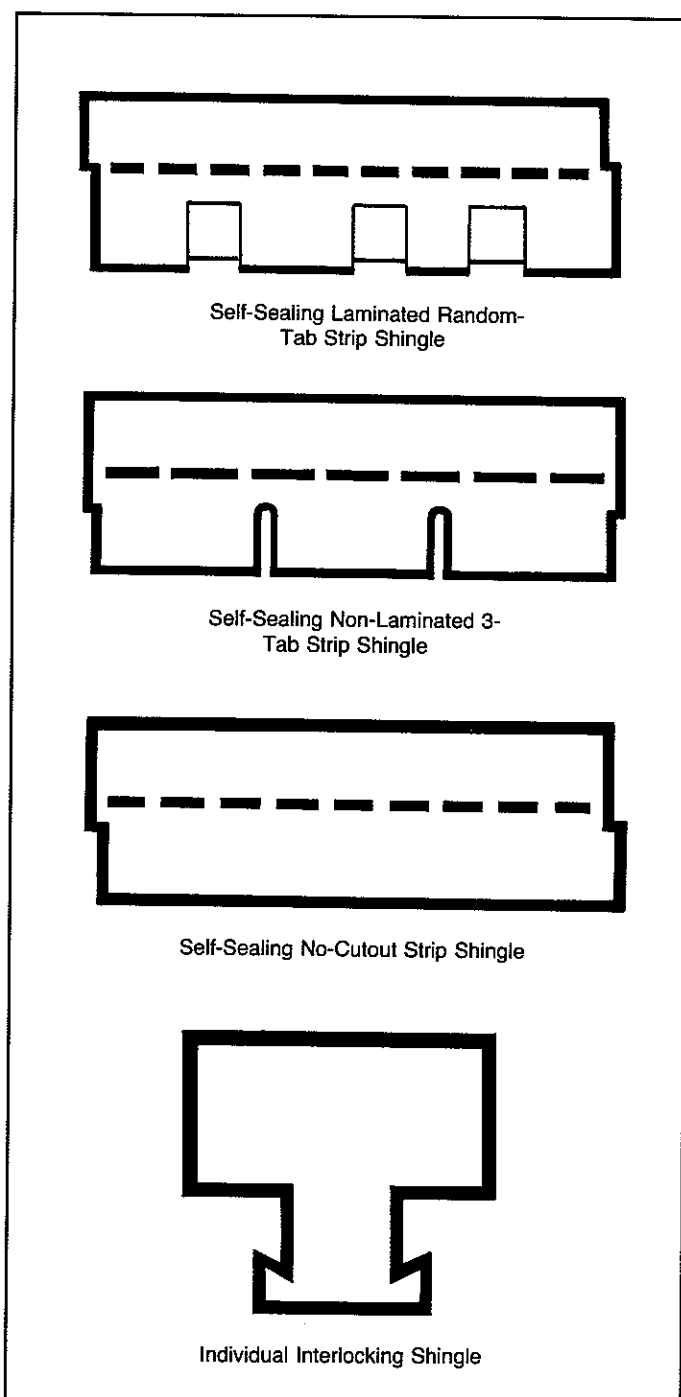


Figure 1 Types of Shingles

### Part 1 General Information

**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 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 *Residential 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)
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
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 *Residential 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 below.

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.

**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.

Beaufort Scale			
Beaufort Number	International Description	Miles per Hour	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
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.

**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 acknowledgement 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 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 Roof Components

### General Information

The category of fiber-cement roof 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 (see Fig. 2), and, in many instances, are installed in a similar manner.

### Notes on the Fiber-Cement Roof 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.

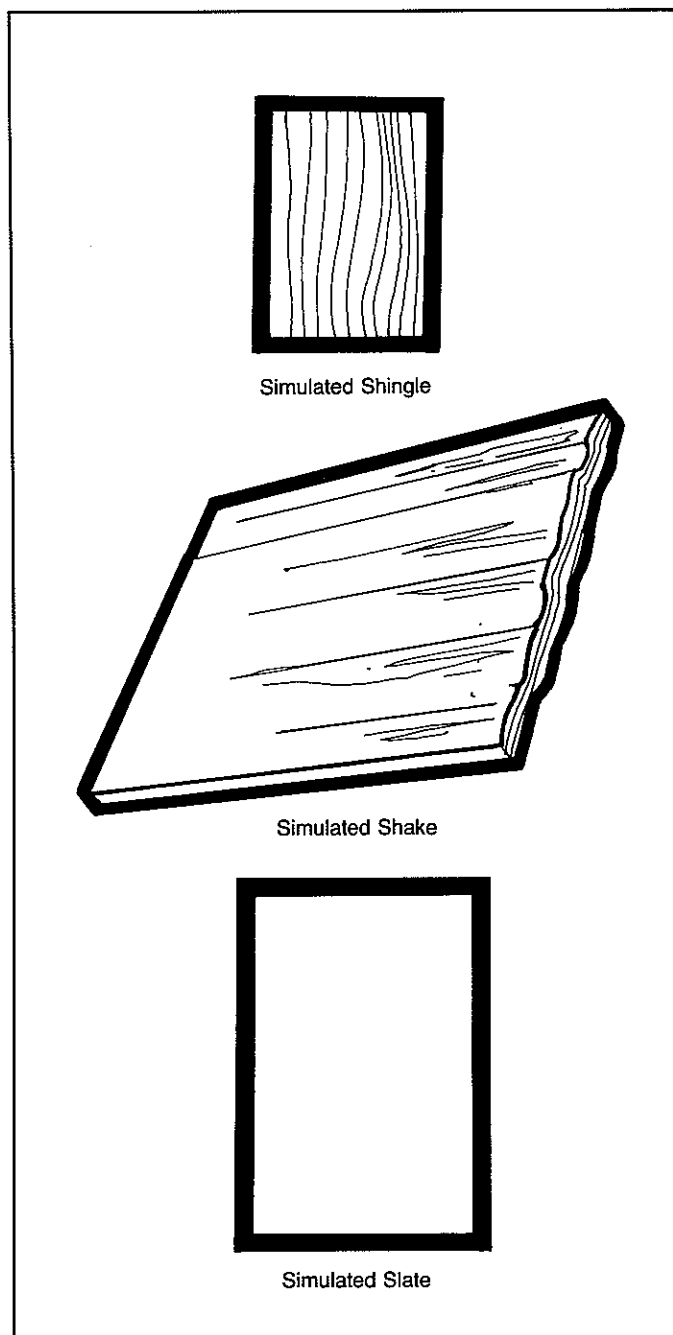
However "normal" application is defined by a manufacturer, the minimum slope is provided followed by the recommended underlayment and/or interlayment. If application is allowed at less than the "normal" slope, the absolute minimum slope is provided followed by the underlayment and/or interlayment recommended 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.



**Figure 2 Types of Fiber-Cement Roof Components**

## Clay Tile

### General Information

Clay tile roofing 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. Fig. 3 illustrates the types of tile referenced in this section: "*S*" *Spanish (Mission Barrel)*, one-piece; *Straight Barrel (Mission)*, two-piece; *Flat*, one-piece; *Flat, Interlocking*, one-piece; and *Flat Pan and Cover*, two-piece. The tile described as *Tapered Mission*, two-piece is simply a variant of the *Straight Barrel (Mission)*, two-piece, except that it tapers down to a smaller size at one end.

### 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 ("*S*" (*Spanish*) *Mission Barrel*, *Double S*) or shingles, shakes, and slate. See Fig. 4 for the types represented in item 3 of this section.

### 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"

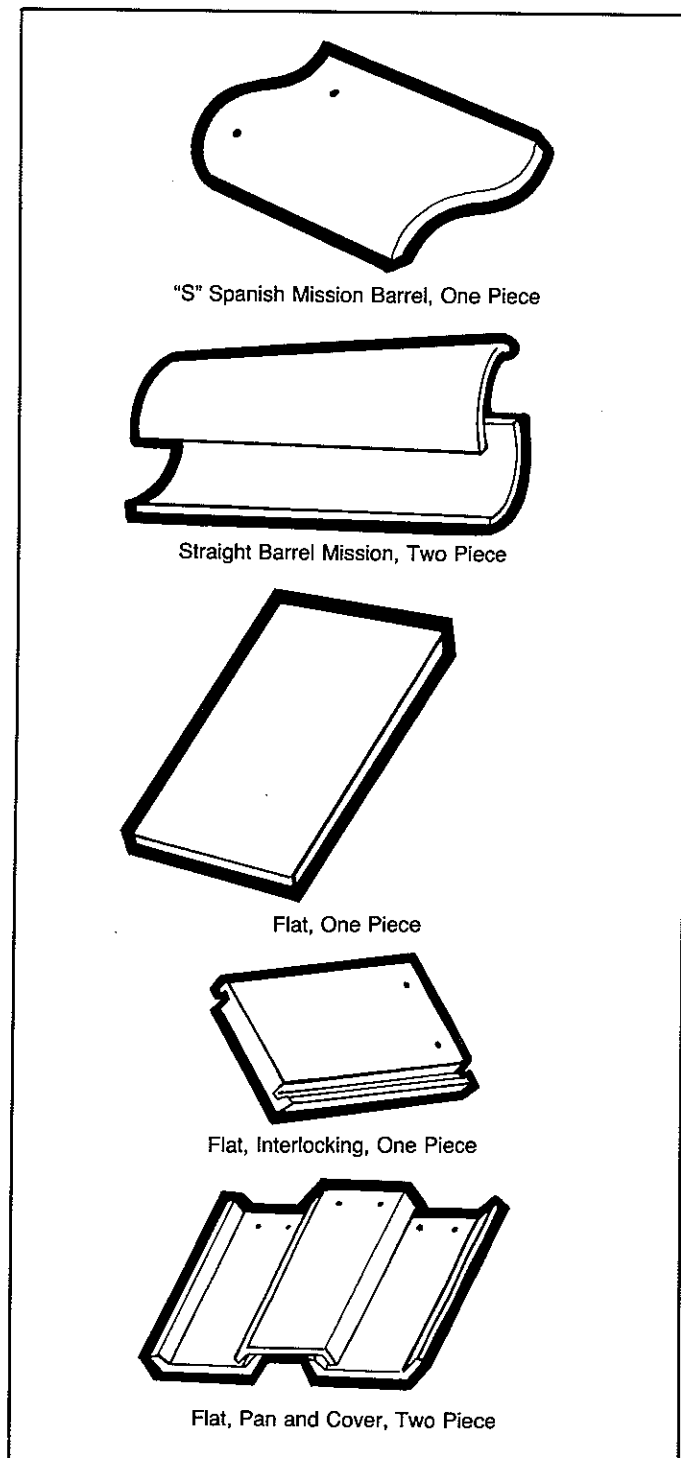


Figure 3 Types of Clay Tile

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.

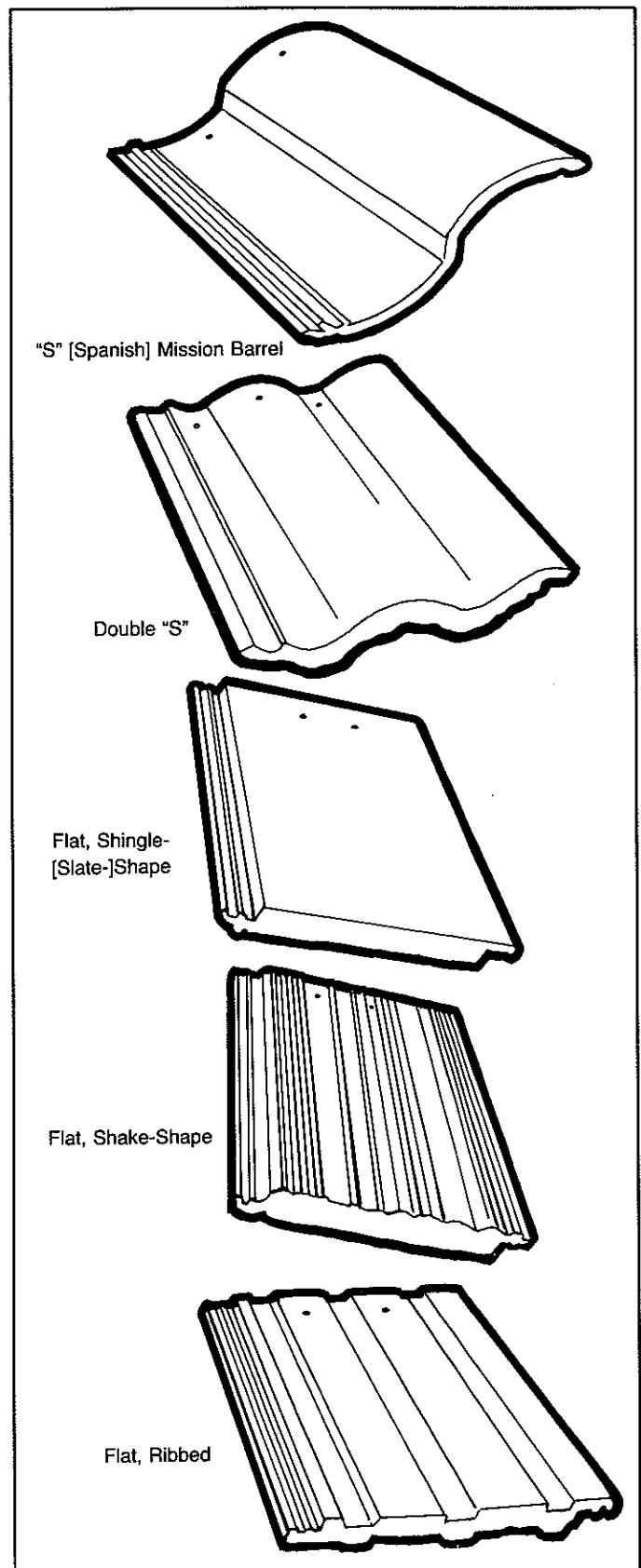
## Metal Roof Components

### General Information

Metal roofing 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



**Figure 4 Types of Concrete Tile**



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 *Residential 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 *Commercial 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 trapezoidal 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 Roof 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 E331 and E283** 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 attached. 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 Residential Steep-Slope 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 Residential 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 residential 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 attached, 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 Components	Clay Tile	Concrete Tile	Metal Roof Components	Wood Shakes and Shingles	Slate	Synthetic Roof Components	Under- layment Sheets
AEP-SPAN, A UNITED DOMINION COMPANY POB 150449 Dallas, TX 75315 800/527-2503 Texas: 214/827-1740 FAX 214/828-1394						150				
AIR VENT INC. 7700 Harker Dr. Peoria, IL 61615 800/AIR-VENT FAX 800/635-7006									194	
ALCOA BUILDING PRODUCTS 1501 Michigan St. Sidney, OH 45365 800/621-7466 FAX 513/498-6871						154				
AMERICAN CEMWOOD CORPORATION P.O. Box C Albany, OR 97321 541/928-6397 FAX 541/928-8110			118							
AMERICAN TAR COMPANY 2240 Taylor Way Tacoma, WA 98421 800/627-4098 FAX 206/624-4120										196
ARS INDUSTRIES, INC. 9609 Parkway East, Suite E Birmingham, AL 35215 205/836-6777 FAX 205/836-4090						154				
ATAS INTERNATIONAL INC. 6612 Snowdrift Rd. Allentown, PA 18106 610/395-8445 FAX 610/395-9342						155				
ATLAS ROOFING CORPORATION 1775 The Exchange, #160 Atlanta, GA 30339 770/933-4479 FAX 770/952-3170	34/74	98								198
BERRIDGE MANUFACTURING CO. 1720 Maury St. Houston, TX 77026 713/223-4971 FAX 713/236-9422						158				
BIRD INCORPORATED 1077 Pleasant St. Norwood, MA 02062 800/BIRD-INC FAX 617/762-6586	37/75	98								
BPCO P.O. Box 3177 Wayne, NJ 07474-3177 201/595-6695 FAX 201/595-6717	38/77	100								199
BUCKINGHAM-VIRGINIA SLATE CORP. P.O. Box 8 Arvon, VA 23004 804/581-1131 FAX 804/581-1130								190		

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Components	Clay Tile	Concrete Tile	Metal Roof Components	Wood Shakes and Shingles	Slate	Synthetic Roof Components	Under- layment Sheets
CARTER HOLT HARVEY ROOFING INC. 827 Avenue H East #211 Arlington, TX 76011 817/695-1090 FAX 817/695-1098						161				
CELADON P.O. BOX 309 New Lexington, OH 43764 800/CEL-SLATE FAX 614/342-5229				124						
THE CELOTEX CORPORATION P.O. BOX 31602 Tampa, FL 33631 813/873-4321 FAX 813/873-4080	40/77	100								201
CERTAINTED CORPORATION/ ROOFING PRODUCTS GROUP P.O. Box 1100 1400 Union Meeting Rd. Blue Bell, PA 19422 800/322-3060 FAX 610/341-6212	43/79									203
CLASSIC PRODUCTS, INC. P.O. Box 701 Piqua, OH 45356 800/543-8938 FAX 513/773-9261						162				
CUSTOM ROOFING COMPANY P.O. Box 740 Naples, TX 75568 903/897-5672 FAX 903/897-2024	48/81	100								
DANIEL PLATT LTD. c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Beasdel, NY 14219 905/627-4035 FAX 905/627-9648				124						
DURA-LOC ROOFING SYSTEMS LIMITED Box 220 Courtland, ON Canada N0J 1E0 519/688-2200 FAX 519/688-2201						162				
ECHEGUREN SLATE, INC. 1465 Illinois St. San Francisco, CA 94107 415/206-9343 FAX 415/206-9353								190		
E.E.E. CORPORATION P.O. Box 392 Moorestown, NJ 08057 800/800-2844 FAX 609/866-7603										203
ELK 14643 Dallas Parkway, Suite 1000 Dallas, TX 75240 972/851-0400 FAX 972/851-0401	49/83	102								

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Components	Clay Tile	Concrete Tile	Metal Roof Components	Wood Shakes and Shingles	Slate	Synthetic Roof Components	Under- layment Sheets
ETERNIT, INC. Excelsior Industrial Park P.O. Box 679 Blandon, PA 19510 610/926-0100 800/233-3155 FAX 610/926-9232			118							
EVERGREEN SLATE COMPANY, INC. 68 E. Potter Ave. P.O. Box 248 Granville, NY 12832 518/642-2530 FAX 518/642-9313								191		
FIELDS CORPORATION 2240 Taylor Way Tacoma, WA 98421 206/627-4098 FAX 206/383-2181										204
GAF MATERIALS CORP. 1361 Alps Road Wayne, NJ 07470 201/628-3000	50/83	104	119							207
GEORGIA-PACIFIC CORPORATION 4300 Wildwood Pkwy. Atlanta, GA 30339 770/221-2441 FAX 770/221-8149	52/84	106								
GERARD ROOFING TECHNOLOGIES 955 Columbia Street Brea, CA 92821-2923 714/529-0407 800/23-ROOFS FAX 714/529-6643						163				
GLADDING, MCBEAN P.O. BOX 97 Lincoln, CA 95648 800/964-2529 FAX 916/645-1723				125						
GLOBE BUILDING MATERIALS, INC. 2230 Indianapolis Blvd. Whiting, IN 46394 219/473-4500 FAX 219/473-4504	54/85									207
GREEN RIVER LOG SALES P.O. Box 515 Sumas, WA 98295 800/663-8707 FAX 604/820-3871							180			
GS ROOFING PRODUCTS CO. INC. 5525 MacArthur Blvd. Suite 900 Irving, TX 75038 214/580-5600 FAX 214/580-5692	57/87	106								209
HEISTERHOLZ c/o HG ROOFING & CONSULTING P.O. Box 406 Lakeville, IN 46536 219/784-2006 FAX 219/784-3872				127						
HERBERT MALARKEY ROOFING COMPANY P.O. Box 17217 Portland, OR 97217 503/283-1191 FAX 503/283-5405	58/87	106								209



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HILLTOP SLATE INC. P.O. Box 201 Middle Granville, NY 12849 518/642-2270 FAX 518/642-1220								191		
HUEGENOT FENAL c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Beasdel, NY 14219 905/627-4035 FAX 905/627-9648				128						
INTERCLAY CORPORATION 6645 N.W. 77th Ave. Miami, FL 33166 305/471-5830 305/471-5830				128						
IKO MANUFACTURING INC. 120 Hay Rd. Wilmington DE 19809 302/764-3100 FAX 302/764-5852	60/89	110								
JAMES HARDIE BUILDING PRODUCTS, INC. 26300 La Alameda, Suite 250 Mission Viejo, CA 92691 714/348-1800 FAX 714/367-0185			120							
LIFETILE CORP. 3511 North Riverside Avenue Rialto, CA 92377-3899 909/822-4407 FAX 909/350-9252					138					
LUDOWICI ROOF TILE, INC. P.O. BOX 69 New Lexington, OH 43764 800/945-8453 FAX 614/342-5229				129						
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 713/445-8555 FAX 713/445-1791						164				
M.C.A. CLAY ROOF TILE 1985 Sampson Ave. Corona, CA 91719 909/736-9590 800/736-MCA1 FAX 909/736-6052				134						
MCELROY METAL CO. 1500 Hamilton Road Bossier City, LA 71111 318/747-8000 FAX 318/747-8029						167				

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METAL SALES MANUFACTURING CORPORATION 7800 State Road 60 Sellersburg, IN 47172 812/246-0819 FAX 812/246-0829						168				
MET-TILE INC. P.O. Box 4268 Ontario, CA 91761 909/947-0311 FAX 909/947-1510						171				
MONIER INC. 1 Park Plaza Suite 900 Irvine, CA 92614 714/756-1605 FAX 714/756-2401					142					
MONSEY/BAKOR Cold Stream Road Kimberton, PA 19442 610/933-8888 FAX 610/933-4598										210
NEWFOUNDLAND SLATE INC. 8800 Shepherd Ave. East Scarborough, ON Canada M1B 5R4 416/281-8181 800/975-2835 FAX 416/281-8842								191		
OWENS CORNING One Owens Corning Pkwy. Toledo, OH 43659 419/248-8000 FAX 419/248-7354	63/91	110								
PABCO ROOFING MANUFACTURERS 1718 Thorne Rd. Tacoma, WA 98421 206/272-0374 FAX 206/572-4997	65/91	112								210
PENN BIG BED SLATE CO., INC. 8450 Brown St. P.O. Box 184 Slatington, PA 18080 610/767-4601 FAX 610/767-9252								192		
PETERSEN ALUMINUM CORP. 1005 Tonne Rd. Elk Grove Village, IL 60007 800/323-1960 FAX 800/722-7150						171				
RE-CON BUILDING PRODUCTS P.O. Box 1094 Sumas, WA 98295 800/347-3373 FAX 604/820-3879			121							
RISING & NELSON SLATE CO., INC. P.O. Box 336 Middle Granville, NY 12849 518/642-3333 518/642-1819								192		

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SANDTOFT ROOF TILES c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Beasdel, NY 14219 905/627-4035 FAX 905/627-9648				135						
SCOTT CEDAR PRODUCTS LTD. P.O. Box 515 Sumas, WA 98295 800/663-8707 FAX 604/820-3871							181			
STAVE LAKE CEDAR MILLS Box 730 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							183			
STIRLING BUILDING PRODUCTS LIMITED Box 278, 281 Alliance Rd. Milton, ON Canada L9T 4N9 800/521-5832 FAX 905/878-8334					147					
SUMAS WOOD TREATERS P.O. Box 515 Sumas, WA 98295 800/963-3388 FAX 604/820-3872							183			
TAMKO ROOFING PRODUCTS INC. P.O. Box 1404 220 W. 4th St. Joplin, MO 64801 417/624-6644 FAX 417/624-8935	68/93	112								211
TAMARK MANUFACTURING, LLC P.O. Box 1386 508 Stella Ave. Savannah, GA 31402 912/232-0786 FAX 912/232-7826							185			
ULTRA SEAM INC. P.O. Box 710 Morganfield, KY 42437 800/874-7326 FAX 810/960-0460						175				
U.S. TILE COMPANY A Division of Boral Industries, Inc. 909 W. Railroad St. Corona, CA 91720 909/737-0200 FAX 909/734-9591				136						
VERMONT SLATE COMPANY P.O. Box 192 Middle Granville, NY 12849 518/642-0731 FAX 518/642-0731								193		
VERMONT STRUCTURAL SLATE COMPANY, INC. P.O. Box 98 3 Prospect St. Fair Haven, VT 05743 800/343-1900 FAX 802/265-3865								193		

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	Asphalt Shingles	Asphalt Shingle Warranties	Fiber- Cement Roof Components	Clay Tile	Concrete Tile	Metal Roof Components	Wood Shakes and Shingles	Slate	Synthetic Roof Components	Under- layment Sheets
VINCENT METALS P.O. Box 360 Minneapolis, MN 55440 612/717-9000 FAX 612/717-7122						177				
WALDUN FOREST PRODUCTS PARTNERSHIP Box 96 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							185			
WARRIOR ROOFING MANUFACTURING, INC. P.O. Box 40185 Tuscaloosa, AL 35404 205/553-1734 FAX 205/553-1755										213
WESTILE 8311 West Carder Court Littleton, CO 80125 303/791-1700 FAX 303/791-9906					148					
W.R. GRACE & CO.-CONN. 62 Whitmore Ave. Cambridge, MA 02140 617/498-4884 FAX 617/498-2643										215

# **ASPHALT SHINGLES**

## **PART 1**

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	PINNACLE PLUS	PINNACLE I	PINNACLE CLASSIC
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 8 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	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 1/2 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, DECKGUARD OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL	4:12 15-LB. FELT  2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD 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)	> 300 < 10	> 300 < 10	> 100 < 10
13A. FOR SALES INFORMATION, CONTACT:	601/484-8905	601/484-8905	601/483-7111
13B. FOR TECHNICAL INFORMATION, CONTACT:	770/933-4479	770/933-4479	770/933-4479
14. SEE APPENDIX IF CHECKED			

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 20	GLASSMASTER T-LOK	WEATHERMASTER ST
FIBERGLASS LAMINATED CERAMIC 8 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 14 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 12 NATIONAL
X	X	X	X	X	X
					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	21 1/2 X 21 12 X 12-SHINGLE NA 99 3	12 X 36 5 7 80 3
NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	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 DECKGUARD OPTIONAL	2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL	2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL	2:12 2 15-LB. FELT + H19S, DECKGUARD OPTIONAL	DECKGUARD OPTIONAL	2:12 2 15-LB. FELTS, DECKGUARD 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
601/483-7111 770/933-4479	601/483-7111 770/933-4479	601/484-8905 770/933-4479	601/484-8905 770/933-4479	601/261-2852 770/933-4479	601/484-8905 770/933-4479

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	WEATHERMASTER T-LOK	CHALET	PLAINSMAN
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	FIBERGLASS NONLAMINATED CERAMIC 4 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 4 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	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 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)	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 15-LB. FELT 2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, DECKGUARD OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD 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:	601/261-2852	800/251-2852	800/251-2852
13B. FOR TECHNICAL INFORMATION, CONTACT:	770/933-4479	770/933-4479	770/933-4479
14. SEE APPENDIX IF CHECKED			

NA=not applicable



# Asphalt Shingles Part 1

BIRD INC.	BIRD INC.	BIRD INC.	BIRD INC.	BIRD INC.	BIRD INC.
ROOFSCAPE PLUS	ARCHITECT 90	WOODSCAPE	MARK 80	FIRELINE	SEAL KING
FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 4 330	12 X 36 5 2 80 4 300	12 X 36 5 2 80 3 250	12 X 36 5 2 80 4 280	12 X 36 5 2 80 4 280	12 X 36 5 2 80 3 232
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 15-LB. FELT
2:12 30-LB. FELT OR ICE & WATER BARRIER	2:12 30-LB. FELT OR ICE & WATER BARRIER	2:12 30-LB. FELT OR ICE & WATER BARRIER	2:12 30-LB. FELT OR ICE & WATER BARRIER	2:12 30-LB. FELT OR ICE & WATER BARRIER	2:12 30-LB. FELT OR ICE & WATER BARRIER
X	X	X	X	X	X
1994	1987	1988	1981	1981	1981
T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	BIRD INC.	BIRD INC.	BPCO
2. PRODUCT NAME	JET 25	WIND SEAL 80	SUPER ECLIPSE
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 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5
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 3 232	12 X 36 5 2 80 3 212	12 X 36 5 2 80 4 310
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
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 30-LB. FELT OR ICE & WATER BARRIER	4:12 15-LB. FELT 2:12 30-LB. FELT OR ICE & WATER BARRIER	4:12 15-LB. FELT
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	1981	1981	1994
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:	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	T.J. HARTNETT, VICE PRESIDENT C. PATENAUE	P. BACCHIONI 201/595-6695 SALES
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

BPCO	BPCO	BPCO	BPCO	BPCO	BPCO
ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK	ESGARD PRO STANDARD	RAMPART
ORGANIC NONLAMINATED CERAMIC 5	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 15 REGIONAL
		X		X	X
X	X		X		
YES	YES	YES	YES	YES	YES
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	13 1/4 X 39 3/8 5 5/8 2 65 3 230
REGIONALLY	NO	NO	NO	NO	NO
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 2 15-LB. FELTS OR PROGARD		2:12 2 15-LB. FELTS OR PROGARD	2:12 2 15-LB. FELTS OR PROGARD
X X	X X	X X	X X	X X	X X
1994	1979	1989	1981	1992	1970
P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	BPCO	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	CITADEL	FRS AMBASSADOR SHAKE SHINGLE	FRS PRESIDENTIAL SHAKE SHINGLE
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	ORGANIC	FIBERGLASS	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)	NONLAMINATED	LAMINATED	LAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	12	5	6
E. COLOR AVAILABILITY (regional/national)	REGIONAL	NATIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP	X		
B. SELF-SEALING 4-TAB STRIP			
C. SELF-SEALING RANDOM-TAB STRIP			X
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	13 1/4 X 39 3/8	13 1/4 X 38 3/4	14 1/4 X 40
2. EXPOSURE (inches)	5 5/8	5 5/8	8 1/4
3. HEADLAP (inches)	2	7 5/8	6
4. SHINGLES PER ROOF SQUARE	65	60	90
5. BUNDLES PER SQUARE	3	5	5
6. WEIGHT PER ROOF SQUARE (pounds)	215	390 APPROX.	360 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	NATIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	15-LB. FELT	NO. 15-LB. FELT	NO. 15-LB. FELT
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	2:12	2:12	2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 15-LB. FELTS OR PROGARD	2 15-LB. FELTS OR ICE & WATER BARR.	2 15-LB. FELTS OR ICE & WATER BARR.
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAFERBOARD			
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	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:	P. BACCHIONI 201/595-6695	800/CELOTEX REGIONAL OFFICE	800/CELOTEX REGIONAL OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:	SALES	OR 800/662-4609	OR 800/662-4609
14. SEE APPENDIX IF CHECKED		X	X

NA=not applicable

# Asphalt Shingles Part 1

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
PRESIDENTIAL SHAKE SHINGLE	FRS DIMENSIONAL /40 SHAKE SHINGLE	DIMENSIONAL /40 SHAKE SHINGLE	FRS DIMENSIONAL /30 SHAKE SHINGLE	DIMENSIONAL /30 SHAKE SHINGLE	FRS DIMENSIONAL /25 SHAKE SHINGLE
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	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL
X	X	X	X	X	X
NO	YES	NO	YES	NO	YES
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.	13 1/4 X 38.75 5 5/8 7 5/8 64 3 240 APPROX.
		12 X 36 5 5/8 7 80 4 340 APPROX.		12 X 36 5 7 80 4 300 APPROX.	240 APPROX.
NATIONALLY	REGIONALLY	NATIONALLY	REGIONALLY	NATIONALLY	REGIONALLY
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	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	DIMENSIONAL /25 SHAKE SHINGLE	FRS STORM KING/25	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 13 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 19 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	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 38.75 5 5/8 7 5/8 64 3 240 APPROX.	12 X 36 5 2 80 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 X 36 5 7 80 4 240 APPROX.		12 1/4 X 36 5 1/8 2 78 3 240 APPROX.
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	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 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	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CERTAINTEED CORPORATION
BIG D STORM KING/25 METRIC	FRS STANDARD STRIP/20	STANDARD STRIP/20	BIG D STRIP/20 METRIC	SOL SEAL/20 ORGANIC	GRAND MANOR SHANGLE
FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 21 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6/6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL
X	X	X	X	X	X
YES	YES	NO	YES	YES	NO
13.1 X 39.4 5 5/8 2 66 3 240 APPROX.	12 X 36 5 2 80 3 205 APPROX.	12 X 36 5 2 80 3 205 APPROX.	13.1 X 39.4 5 5/8 2 66 3 205 APPROX.	12 X 36 5 2 80 3 210 APPROX.	18 X 36 8 2 50 5 430
		12 1/4 X 36 5 1/8 2 78 3 205 APPROX.		12 1/4 X 36 5 1/8 2 78 3 210 APPROX.	
REGIONALLY	NO	REGIONALLY	REGIONALLY	NO	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 NO.-15 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 WINTERGUARD
X X	X X	X X	X X	X X	X X X
					1991
					NO
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	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
X	X	X	X	X	X



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME	CARRIAGE HOUSE SHANGLE	HALLMARK SHANGLE	INDEPENDENCE SHANGLE
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 8 NATIONAL	ORGANIC LAMINATED CERAMIC 8 REGIONAL	ORGANIC LAMINATED CERAMIC 12/9/11 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)	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)	18 X 36 8 2 50 5 375	12 X 36 5 2 80 5 325	12 X 36 5 2 80 4 300
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	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 WINTERGUARD	4:12 NO.-15 FELT 2:12 WINTERGUARD	4:12 NO.-15 FELT 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	1993	1965	1976
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

CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
LANDMARK XL	LANDMARK	LANDMARK 25	CLASSIC HORIZON SHANGLE	NEW HORIZON SHANGLE	HIGHLANDS SHANGLE
FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS OVERLAY CERAMIC 10/9/9 REGIONAL	FIBERGLASS OVERLAY CERAMIC 9/8 REGIONAL	FIBERGLASS OVERLAY CERAMIC 9 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 4 300	12 X 36 5 2 80 4 265	12 X 36 5 2 80 3 250	12 X 36 5 2 80 3 240/245/250	12 X 35 5/8 5 2 81 3 245/250	12 X 36 5 2 80 3 240
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
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 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
1996	1996	1997	1982	1996	1997
NO	NO	YES NO	NO	YES 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	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME	HEARTHSTEAD	CUSTOM SEALDON 30	CERTAINTED XT30
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	ORGANIC	ORGANIC	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)	NONLAMINATED	NONLAMINATED	NONLAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	8	10/13	15
E. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP		X	X
B. SELF-SEALING 4-TAB STRIP	X		
C. SELF-SEALING RANDOM-TAB STRIP			
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	12 X 36	12 X 36	12 X 36
2. EXPOSURE (inches)	5	5	5
3. HEADLAP (inches)	2	2	2
4. SHINGLES PER ROOF SQUARE	80	80	80
5. BUNDLES PER SQUARE	3	3	3
6. WEIGHT PER ROOF SQUARE (pounds)	225	250	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)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NO.-15 FELT	NO.-15 FELT	NO.-15 FELT
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	2:12	2:12	2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	WINTERGUARD	WINTERGUARD	WINTERGUARD
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAFERBOARD	X	X	X
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1985	1991	1997
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			YES
B. DIRECT (number of regional service locations or no)	NO	NO	NO
13A. FOR SALES INFORMATION, CONTACT:	LOCAL OFFICE (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX)
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/322-3060 (SEE APPENDIX)	800/322-3060 (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
CERTAINTED XT25	FUNGUSBUSTER 25	SEALDON 25	CERTAINTED 20	SOLID SLAB	CUSTOM LOK 25
FIBERGLASS NONLAMINATED CERAMIC 14/15/14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10/14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9/10 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 3 225/230	12 X 36 5 2 80 3 225	12 X 36 5 2 80 3 220	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
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
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 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
1985	1984	1950s	1970s	1980s	1960s
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)	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	CUSTOM ROOFING COMPANY	CUSTOM ROOFING COMPANY	CUSTOM ROOFING COMPANY
2. PRODUCT NAME	SEAL-TOP	DYNASTY	VANGUARD
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 18 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 19 REGIONAL	FIBERGLASS NONLAMINATED 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)	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 1/4 X 36 5 1/4 7 76 3	12 1/4 X 36 5 1/4 7 76 3	11 X 36 8 0 100 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 2:12 2 15-LB. FELTS	4:12 NO.-15 FELT 2:12 2 15-LB. FELTS	4:12 NO.-15 FELT
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1985	1986	1985
11. NUMBER OF SQUARES INSTALLED	>1 MILLION	>1 MILLION	>1 MILLION
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	300+ 20	300+ 20	300+ 20
13A. FOR SALES INFORMATION, CONTACT:	B. SARTAIN	B. SARTAIN	B. SARTAIN
13B. FOR TECHNICAL INFORMATION, CONTACT:	B. SARTAIN	B. SARTAIN	B. SARTAIN
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

CUSTOM ROOFING COMPANY	CUSTOM ROOFING COMPANY	ELK	ELK	ELK	ELK
DIAMOND CREST III	T-LOCK	PRESTIQUE PLUS HIGH DEFINITION	PRESTIQUE I HIGH DEFINITION	PRESTIQUE II RAISED PROFILE	CAPSTONE
FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7/7/6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6/7/6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6/7/7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 3 NATIONAL
		X	X	X	X
NO	NO	NO	NO	NO	NO
12 X 36 10 80 3	21 1/2 X 20 13/16 14 7 99 3	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 64 3	12 1/8 X 39 1/2 5 4 > 300
NO	NO	REGIONALLY	REGIONALLY	REGIONALLY	NATIONALLY
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. 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
X	X	X X	X X	X X	X X
		CHIPBOARD	CHIPBOARD	CHIPBOARD	CHIPBOARD
1986	1987	1985	1978	1982	1992
> 1 MILLION	> 1 MILLION				
300+ 20	300+ 20	NO	NO	NO	
B. SARTAIN	B. SARTAIN	REGIONAL SALES OFFICE TX: 800/288-6789 CA: 800/355-4968	REGIONAL SALES OFFICE TX: 800/288-6789 CA: 800/355-4968	REGIONAL SALES OFFICE TX: 800/288-6789 CA: 800/355-4968	REGIONAL SALES OFFICE TX: 800/288-6789 CA: 800/355-4968
		X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	TIMBERLINE ULTRA	TIMBERLINE	TIMBERLINE 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 COATED 6/8 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 6/10 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 6/8 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	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 2 80 4	12 X 36 5 2 80 4	12 X 36 15/16 5 2 78 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 4	13 1/4 X 39 3/8 5 5/8 2 64 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 2:12-4:12 2 15-LB. FELTS	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
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	1990	1980	1995
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:	GAF REGIONAL OFFICE 800/ROOF-411	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
SLATELINE	MARQUIS	ROYAL SOVEREIGN	SENTINEL	DUBL-COVERAGE TITE-ON	STONEHENGE
FIBERGLASS NONLAMINATED CERAMIC COATED 6 REGIONAL	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 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 5 REGIONAL
X	X	X	X	X	X
YES	YES	NO	NO	YES	YES
17 X 40 7 1/2 2 48 4	12 X 36 5 2 80 3	12 X 36 5 2 80 3	12 X 36 5 2 80 3	20 13/16 X 21 1/2 6 100 3	12 X 36 5 2 80 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 65 3		13 1/4 X 39 3/8 5 5/8 2 65 3
REGIONALLY	NO	NO	NO	NO	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 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		
X X	X X	X X	X X	X X	X X
1988	1991	1984	1980	1984	1995
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	GRAND SEQUOIA	FLORIDIAN	TOUGH-GLASS
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	FIBERGLASS	FIBERGLASS	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)		NONLAMINATED	NONLAMINATED
C. GRANULE COMPOSITION	CERAMIC COATED	CERAMIC COATED	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	6	5	11
E. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP			X
B. SELF-SEALING 4-TAB STRIP			
C. SELF-SEALING RANDOM-TAB STRIP	X	X	
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	40 X 17	12 X 36	12 X 36
2. EXPOSURE (inches)	5	5	5
3. HEADLAP (inches)	7	2	7
4. SHINGLES PER ROOF SQUARE	72	80	80
5. BUNDLES PER SQUARE	5	3	3
6. WEIGHT PER ROOF SQUARE (pounds)			215
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	NO
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	15-LB. FELT	15-LB. FELT	TYPE-15 FELT
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	2:12-4:12		2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 15-LB. FELTS		2 TYPE-15 FELTS
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAFERBOARD			X
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1996	1995	1979
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			
B. DIRECT (number of regional service locations or no)			110
13A. FOR SALES INFORMATION, CONTACT:	GAF REGIONAL OFFICE	GAF REGIONAL OFFICE	404/521-4000
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/ROOF-411	800/ROOF-411	770/221-2457/ 770/221-2441
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
TOUGH-GLASS PLUS	PREMIUM 25	T-LOCK 20	TOUGH-GLASS T-LOCK	ASPHALT 20	SUMMIT III
FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 10 REGIONAL	ORGANIC NONLAMINATED CERAMIC 2 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 2 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 NATIONAL
X	X			X	
		X	X		
YES	YES	YES	YES	YES	NO
12 X 36 5 7 80 3 240	12 X 36 5 7 80 3 240	21 X 21 1/2 14 7 1/2 99 3 245	21 X 21 1/2 14 7 1/2 99 3 225	12 X 36 5 7 80 3 225	12 1/2 X 36 3/8 5 1/2 7 72 4 300
					13 1/4 X 39 3/8 5 5/8 7 3/4 66 4 300
NO	NO	NO	NO	NO	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	2:12 2 TYPE-15 FELTS			2:12 2 TYPE-15 FELTS	2:12 2 TYPE-15 FELTS
X X X	X X X	X X X	X X X	X X X	X X X
1985	1987	1981	1981	1978	1986
110	110	128	128	128	128
404/521-4000 770/221-2457/ 770/221-2441	404/521-4000 770/221-2457/ 770/221-2441	404/521-4000 770/221-2457/ 770/221-2441	404/521-4000 770/221-2457/ 770/221-2441	404/521-4000 770/221-2457/ 770/221-2441	404/521-4000 770/221-2457/ 770/221-2441

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	SUMMIT	TUSCAN 30	TUSCAN 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 8 NATIONAL	FIBERGLASS LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED 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
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 3 250	12 X 36 5 60 4	12 X 36 5 60 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 1/4 X 39 3/8 5 5/8 7 3/4 66 3 240		
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	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 TYPE-15 FELT 2:12 2 TYPE-15 FELTS	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	1986	1993	1993
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:	404/521-4000	219/473-4500	219/473-4500
13B. FOR TECHNICAL INFORMATION, CONTACT:	770/221-2457/ 770/221-2441	219/473-4500	219/473-4500
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.
PREMIER SHADOW	PREMIER SHAKE	PROSEAL 30	SUPER SEAL	GLOBE SEAL	WINDLOCK
ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7/7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 18 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC REGIONAL
X		X	X	X	
	X				X
NO	NO	NO	NO	NO	NO
12 X 36 5 6 80 3 250	12 X 36 5 NA 80 3	12 X 36 5 6 80 3 250	12 X 36 5 6 80 3	12 X 36 5 6 80 3	19 1/2 X 21 5/8 100 3
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
	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
1995	1968	1995	1958	1986	1955
219/473-4500 219/473-4500	219/473-4500 219/473-4500	219/473-4500 219/473-4500	219/473-4500 219/473-4500	219/473-4500 219/473-4500	219/473-4500 219/473-4500

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	FRENCH ROYALE	KLIP-LOK	FRENCH ESTATE
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 13 REGIONAL	ORGANIC NONLAMINATED CERAMIC REGIONAL	ORGANIC 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	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)	19 1/2 X 21 5/8   100 3	16 X 16   82 2	16 X 16   82 2
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	4:12 NO.-15 FELT	4:12 NO.-15 FELT
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1995	1941	1995
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:	219/473-4500	219/473-4500	219/473-4500
13B. FOR TECHNICAL INFORMATION, CONTACT:	219/473-4500	219/473-4500	219/473-4500
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
GLOBE 25	GLOBE 30	FIRE-HALT	FIRESCREEN PLUS	FIRESCREEN	HIGH SIERRA
FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 5 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	12 X 36 5 2 80 4	12 X 36 5 2 80 3	12 X 36 5 2 80 3	12 X 36 5 2 80 4
		13 1/4 X 39 3/8 5 5/8 2 64 3	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 4	13 1/4 X 39 3/8 5 5/8 2 64 4
NO	NO	NATIONALLY	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
1989	1989				
		300+ NO	300+ NO	300+ NO	300+ NO
219/473-4500	219/473-4500	214/580-5600	214/580-5600	214/580-5600	214/580-5600
219/473-4500	219/473-4500	214/580-5600	214/580-5600	214/580-5600	214/580-5600
		X	X	X	X

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GS ROOFING PRODUCTS CO.	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME	ARCHITECT 80	#202 DURA-SEAL	#204 DURA-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 LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 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 2 80 4	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
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		
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 15- OR 30-LB. FELT 2:12 2 15-LB. FELTS	4:12 15- OR 30-LB. FELT 2:12 2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAVERBOARD D. OTHER (specify)	X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD		1977	1978
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	300+ NO	200+	200+
13A. FOR SALES INFORMATION, CONTACT:	214/580-5600	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191
13B. FOR TECHNICAL INFORMATION, CONTACT:	214/580-5600	J. DECHANDT, S. WADDING	J. DECHANDT, S. WADDING
14. SEE APPENDIX IF CHECKED	X		

NA=not applicable

# Asphalt Shingles Part 1

HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
#210 PRO-25 SBS MODIFIED	#230 ALASKAN SBS MODIFIED	#240 HURRICANE SBS MODIFIED ALGAE RESISTANT	#250 MONTEREY SBS MODIFIED	#250 MONTEREY SBS MODIFIED ALGAE RESISTANT	#270 ASPEN ARCHITECTURAL
FIBERGLASS NONLAMINATED CERAMIC 6 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 4 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC/COPPER 3 NATIONAL	FIBERGLASS LAMINATED CERAMIC 6 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 3 210	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 3/8 5 5/8 2 66 3 225	13 1/4 X 39 3/8 5 5/8 2 66 3 225	12 1/2 X 36 3/8 5 1/2 2 72 3 250
REGIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY
4:12 15- OR 30-LB. FELT	4:12 15- OR 30-LB. FELT	4:12 15- OR 30-LB. FELT	4:12 15- OR 30-LB. FELT	4:12 15- OR 30-LB. FELT	4:12 15- OR 30-LB. 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 15-LB. FELTS
X X X	X X X	X X X	X X X	X X X	X X X
1987	1986	1993	1992	1993	1991
200+	200+	200+	200+	200+	200+
G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING



# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	CATHEDRAL 25	CHATEAU SHADOW BAND	RENAISSANCE XL
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	FIBERGLASS	ORGANIC	ORGANIC
B. CONSTRUCTION (laminated/nonlaminated)	NONLAMINATED	LAMINATED	NONLAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	7	7	7
E. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP	X		X
B. SELF-SEALING 4-TAB STRIP			
C. SELF-SEALING RANDOM-TAB STRIP			
D. SELF-SEALING NO CUTOUT		X	
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)		YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	12 1/4 X 36	14 1/4 X 39 3/16	13 1/4 X 39 3/8
2. EXPOSURE (inches)	5 1/8	6 1/8	5 5/8
3. HEADLAP (inches)	2	2	2
4. SHINGLES PER ROOF SQUARE	78	60	65
5. BUNDLES PER SQUARE	3	4	3
6. WEIGHT PER ROOF SQUARE (pounds)	235	300	249
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)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	15-LB. FELT	NA	NA
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	2:12	2:12	2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 NO.-15 FELTS OR ICE & WATER SHIELD	2 NO.-15 FELTS OR ICE & WATER SHIELD	2 NO.-15 FELTS OR ICE & WATER SHIELD
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAFFERBOARD			
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1996	1978	1992
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.
CROWNE 30	ROYAL VICTORIAN	SKYLINE 25	ARISTOCRAT	IMPERIAL GENTRY	IMPERIAL SEAL/20
ORGANIC NONLAMINATED CERAMIC 4/5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	ORGANIC NONLAMINATED CERAMIC 13/12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL
X	X	X	X	X	X
	YES	YES	YES	YES	YES
13 1/4 X 39 3/8 5 5/8 2 65 3 254	13 1/4 X 39 3/8 5 5/8 2 65 3 241	13 1/4 X 39 3/8 5 5/8 2 65 3 229	13 1/4 X 39 3/8 5 5/8 2 65 3 240	12 1/4 X 36 5 1/8 2 78 3 235	12 1/4 X 36 5 1/8 2 78 3 216
12 1/4 X 36 5 1/8 2 78 3 254			12 1/4 X 36 5 1/8 2 78 3 231		
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 NA	4:12 NA	4:12 NA	4:12 NA	4:12 15-LB. FELT	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 NO.-15 FELTS OR ICE & WATER SHIELD	2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD
X X	X X	X X	X X	X X	X X
1995	1992	1978	1967	1987	1987
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	IMPERIAL GLASS/20	ARMOUR LOCK	NEW ENGLANDER
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 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4 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 1/4 X 36 5 1/8 2 78 3 207	23 7/8 X 20 7/8 16 2 86 3 225	13 1/4 X 39 3/8 5 5/8 2 65 3 213
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 15-LB. FELT 2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	4:12 NA 2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	4:12 NA 2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD D. OTHER (specify)	X X X X	X X X X	X X X X
10. YEAR PRODUCT FIRST SOLD	1987	1959	1982
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.	OWENS CORNING	OWENS CORNING
ARMOUR PLUS 20	ULTRA LOCK 25	DYNASTY	CAMBRIDGE ULTRA	CLASSIC	SUPREME
ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	FIBERGLASS LAMINATED CERAMIC 9 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 29 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 29 REGIONAL
X				X	X
	X	X	X		
YES	YES	NO	NO	NO	NO
13 1/4 X 39 3/8 5 5/8 2 65 3 213	23 7/8 X 20 7/8 16 2 86 3 250	13 3/8 X 40 5 30 72 4 288	14 3/8 X 39 3/16 6 1/8 2 60 3 247	12 X 36 5 7 80 3	12 X 36 5 7 80 3
	21 1/2 X 21 1/2 14 2 98 3 243				
REGIONALLY	REGIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	REGIONALLY
4:12 NA	4:12 NA	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD		2:12 2 NO.-15 FELTS OR ICE&WAT. PROTECTOR	2:12 2 NO.-15 FELTS OR ICE&WAT. PROTECTOR	2:12 2 15-LB. FELTS & ICE/WATER SHIELD	2:12 2 15-LB. FELTS & ICE/WATER SHIELD
X X	X X	X X	X X	X	X
1979	1990	1995	1994	1959	1988
				MILLIONS	MILLIONS
NO	NO	NO	NO	300+ NO	300+ NO
800/323-7171	800/323-7171	800/323-7171	800/323-7171	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060
800/323-7171	800/323-7171	800/323-7171	800/323-7171		

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	OWENS CORNING	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME	CLASSIC (METRIC)	SUPREME (METRIC)	SUPREME 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 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED 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)	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 1/8 X 39 3/8 5 9/16 7 9/16 66 3	13 1/8 X 39 3/8 5 9/16 7 9/16 66 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)	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 & ICE/WATER SHIELD	4:12 15-LB. FELT 2:12 2 15-LB. FELTS & ICE/WATER SHIELD	4:12 15-LB. FELT 2:12 2 15-LB. FELTS & ICE/WATER SHIELD
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1987	1986	1990
11. NUMBER OF SQUARES INSTALLED	MILLIONS	> 1 MILLION	> 1 MILLION
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	300+ NO	50 NO	200+ NO
13A. FOR SALES INFORMATION, CONTACT:	SEE OCF LISTING IN LOCAL PHONE BOOK	SEE OCF LISTING IN LOCAL PHONE BOOK	SEE OCF LISTING IN LOCAL PHONE BOOK
13B. FOR TECHNICAL INFORMATION, CONTACT:	D. HIGGS 419/248-7060	D. HIGGS 419/248-7060	D. HIGGS 419/248-7060
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Asphalt Shingles Part 1

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	PABCO ROOFING PRODUCTS
GLASLOCK	OAKRIDGE II	PROMINENCE	OAKRIDGE PLUS	OAKRIDGE SHADOW	PABCO PREMIER 25 YEAR
FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11 REGIONAL
		X			
	X		X	X	
X					X
YES	NO	NO	NO	NO	NO
21 1/16 X 21 9/16	13 1/4 X 38 3/4	12 X 36	13 1/4 X 39 3/8	13 1/4 X 39 3/8	13 1/4 X 40
	5 5/8	5	5 5/8	5 5/8	5 5/8
	7 5/8	7	7 5/8	7 5/8	7 5/8
96	66	80	64	64	64
3	3	3	4	4	4
					267
NO	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 15-LB. FELT
4:12 2 15-LB. FELTS & ICE/WATER SHIELD	2:12 2 15-LB. FELTS & ICE/WATER SHIELD	2:12 2 15-LB. FELTS & ICE DAM PROTECTION	2:12 2 15-LB. FELTS & ICE/WATER SHIELD	2:12 2 15-LB. FELTS & ICE/WATER SHIELD	2:12 2 15-LB. FELTS
X	X	X	X	X	X
					X
					X
1977	1987	1995	1987	1987	1991
MILLIONS	MILLIONS		MILLIONS	MILLIONS	3 MILLION
80 NO	300+ NO	300+ NO	300+ NO	300+ NO	100 NO
SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	SEE OCF LISTING IN LOCAL PHONE BOOK D. HIGGS 419/248-7060	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	PABCO PREMIER 30 YEAR	PABCO PREMIER 40 YEAR	PABCO HM-30
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	FIBERGLASS	FIBERGLASS	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)	LAMINATED	LAMINATED	LAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	11	11	7
E. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP			X
B. SELF-SEALING 4-TAB STRIP			
C. SELF-SEALING RANDOM-TAB STRIP			
D. SELF-SEALING NO CUTOUT	X	X	
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	13 1/4 X 40	13 1/4 X 40	13 1/4 X 39 3/8
2. EXPOSURE (inches)	5 5/8	5 5/8	5 5/8
3. HEADLAP (inches)	7 5/8	7 5/8	7 5/8
4. SHINGLES PER ROOF SQUARE	64	64	65
5. BUNDLES PER SQUARE	4	4	4
6. WEIGHT PER ROOF SQUARE (pounds)	286	320	298
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)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	15-LB. FELT	15-LB. FELT	15-LB. FELT
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	2:12	2:12	2:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 15-LB. FELTS	2 15-LB. FELTS	2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAVERBOARD	X	X	X
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1991	1991	
11. NUMBER OF SQUARES INSTALLED	3 MILLION	3 MILLION	500,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	100	100	100
B. DIRECT (number of regional service locations or no)	NO	NO	
13A. FOR SALES INFORMATION, CONTACT:	H. BOUCHEE 206/272-0374	H. BOUCHEE 206/272-0374	H. BOUCHEE 206/272-0374
13B. FOR TECHNICAL INFORMATION, CONTACT:	S. DINWIDDIE 206/272-0374	S. DINWIDDIE 206/272-0374	S. DINWIDDIE 206/272-0374
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	PABCO ROOFING PRODUCTS
PABCO GT-25	PABCO SG-25	PABCO GG-20	MONARCH	PREMIER 25 ALGAE BLOCK	SG-25 ALGAE BLOCK
FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 4 REGIONAL
X	X	X	X	X	X
NO	NO	NO			
13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 240	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	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 X 39 3/8 5 5/8 7 5/8 65 3 230
REGIONALLY	REGIONALLY	REGIONALLY	NO	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 15-LB. 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 15-LB. FELTS
X X X	X X X	X X X	X X X	X X X	X X X
1984 500,000	1984 5 MILLION	1984 5 MILLION	1996	1995	1995
100	100	100	100	100	100
H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374

# Asphalt Shingles Part 1: General Information

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	ORGANIC-25 SEAL-DOWN	GLASS-SEAL	GLASS-SEAL AR
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 14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	FIBERGLASS NONLAMINATED COPPER/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	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 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	REGIONALLY	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, 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	1946	1979	1983
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	>6,000 NO	>2,000 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	ELITE GLASS SEAL AR	TAM-LOC GLASS	HERITAGE	HERITAGE 25	HERITAGE 25 AR
FIBERGLASS NONLAMINATED CERAMIC 10 REGIONAL	FIBERGLASS NONLAMINATED COPPER/CERAMIC 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	ORGANIC LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL	FIBERGLASS LAMINATED COPPER/CERAMIC 4 REGIONAL
X	X		X	X	X
NO	YES	YES	YES	NO	YES
12 X 36 5 2 80 3	12 X 36 5 2 80 3	21 X 21 1/2 99 3	12 X 36 5 2 80 4	12 X 36 15/16 5 2 78 3	12 X 36 15/16 5 2 78 3
REGIONALLY	NO	REGIONALLY	REGIONALLY	NATIONALLY	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
1984	1985	1984	1976	1985	1992
>6,000 NO	>2,000 NO	>3,000 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 30	HERITAGE 30 AR	HERITAGE 40
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 NATIONAL	FIBERGLASS LAMINATED COPPER/CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED 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	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 4	12 X 36 5 2 80 4	12 X 36 5 2 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)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	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 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. WAFFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1989	1992	1992
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	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 40 AR	HERITAGE M25	HERITAGE M30	HERITAGE M40
FIBERGLASS LAMINATED CERAMIC 4 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL
X	X	X	X
YES	YES	YES	YES
12 X 36 5 2 80 4	39 3/8 X 13 1/4 5 5/8 2 1/4 66 3 236	39 3/8 X 13 1/4 5 5/8 2 1/4 64 4 300	39 3/8 X 13 1/4 5 5/8 2 1/4 64 4 345
REGIONALLY	REGIONALLY	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
1988	1995	1995	1995
3,000			
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 2**

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	PINNACLE PLUS	PINNACLE I
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	NO
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	PINNACLE CLASSIC	STORMMASTER LM 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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NO	YES
5. SEE APPENDIX IF CHECKED		

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
STORMMASTER ST SBS MODIFIED	GLASSMASTER 25	GLASSMASTER 20	GLASSMASTER T-LOK	WEATHERMASTER ST	WEATHERMASTER T-LOK
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X X
NA	NA	NA	NA	X	X
X	NA	NA	NA	NA	NA
YES	NO	NO	NO	NA	NA

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BIRD INC.	BIRD INC.	BIRD INC.	BIRD INC.
CHALET	PLAINSMAN	ROOFSCAPE PLUS	ARCHITECT 90	WOODSCAPE	MARK 80
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
NO	NO	YES	YES	YES	YES

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	BIRD INC.	BIRD INC.
2. PRODUCT NAME	FIRELINE	SEAL KING
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	BIRD INC.	BIRD INC.
2. PRODUCT NAME	JET 25	WIND SEAL 80
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)		
4. COMPLIES WITH:		
A. ASTM D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable



# Asphalt Shingles Part 2

BPCO	BPCO	BPCO	BPCO	BPCO	BPCO
SUPER ECLIPSE	ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK	ESGARD PRO STANDARD
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 SHINGLE	FRS PRESIDENTIAL SHAKE SHINGLE	PRESIDENTIAL SHAKE SHINGLE	FRS DIMENSIONAL /40 SHAKE SHINGLE
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				
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	DIMENSIONAL /40 SHAKE SHINGLE	FRS DIMENSIONAL /30 SHAKE SHINGLE
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		X

1. COMPANY NAME	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	DIMENSIONAL /30 SHAKE SHINGLE	FRS DIMENSIONAL /25 SHAKE SHINGLE
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	NO
5. SEE APPENDIX IF CHECKED	X	X

NA=not applicable

# Asphalt Shingles Part 2

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
DIMENSIONAL /25 SHAKE SHINGLE	FRS STORM KING/25	STORM KING/25	BIG D STORM KING/25 METRIC	FRS STANDARD STRIP/20	STANDARD STRIP/20
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
NO	YES	YES	YES	NO	NO
X	X	X	X	X	X

CELOTEX CORPORATION	CELOTEX CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
BIG D STRIP/20 METRIC	SOL SEAL/20	GRAND MANOR SHANGLE	CARRIAGE HOUSE SHANGLE	HALLMARK SHANGLE	INDEPENDENCE SHANGLE
FIBERGLASS	ORGANIC	FIBERGLASS	FIBERGLASS	ORGANIC	FIBERGLASS
CLASS A YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS C NO	CLASS A YES
X	X	X	X		X
NA	NA	NA	NA	X	NA
X	NA	X	X	NA	X
NO	NA	YES	YES	NA	YES
X	X	X	X	X	X

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME	LANDMARK XL	LANDMARK
FELT MATERIAL		
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME	LANDMARK 25	CLASSIC HORIZON SHANGLE
FELT MATERIAL		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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
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
NEW HORIZON SHANGLE	HIGHLANDS SHANGLE	HEARTHSTEAD	CUSTOM SEALDON 30	CERTAINTEED XT30	CERTAINTEED XT25
		ORGANIC	ORGANIC		FIBERGLASS
CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA			NA	NA
		X	X		
		NA	NA		
X	X			X	X
YES	YES	NA	NA	YES	YES
X	X	X	X	X	X

CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CUSTOM ROOFING COMPANY
FUNGUSBUSTER 25	SEALDON 25	CERTAINTEED 20	SOLID SLAB	CUSTOM LOK 25	SEAL-TOP
FIBERGLASS	ORGANIC	FIBERGLASS	ORGANIC	ORGANIC	FIBERGLASS
CLASS A YES	CLASS C YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES
X	X	X	X	X	X
NA		NA			NA
	X		X	X	
	NA	X	NA	NA	
X					X
YES	NA	YES	NA	NA	YES
X	X	X	X	X	

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	CUSTOM ROOFING COMPANY	CUSTOM ROOFING COMPANY
2. PRODUCT NAME	DYNASTY	VANGUARD
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	CUSTOM ROOFING COMPANY	CUSTOM ROOFING COMPANY
2. PRODUCT NAME	DIAMOND CREST III	T-LOCK
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

# Asphalt Shingles Part 2

ELK	ELK	ELK	ELK	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
PRESTIQUE PLUS HIGH DEFINITION	PRESTIQUE I HIGH DEFINITION	PRESTIQUE II RAISED PROFILE	CAPSTONE	TIMBERLINE ULTRA	TIMBERLINE
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	NO
				X	X

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
TIMBERLINE 25	MARQUIS	ROYAL SOVEREIGN	SENTINEL	DUBL-COVERAGE TITE-ON	STONEHENGE
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
NO	YES	YES	NO	NO	YES
X	X	X	X	X	X



# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	SLATELINE	GRAND SEQUOIA
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED	X	X

1. COMPANY NAME	GAF MATERIALS CORPORATION	GEORGIA-PACIFIC
2. PRODUCT NAME	FLORIDIAN	TOUGH-GLASS
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	
5. SEE APPENDIX IF CHECKED	X	

NA=not applicable



# Asphalt Shingles Part 2

GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC
TOUGH-GLASS PLUS	PREMIUM 25	T-LOCK 20	TOUGH-GLASS T-LOCK	ASPHALT 20	SUMMIT III
FIBERGLASS	ORGANIC	ORGANIC	FIBERGLASS	ORGANIC	FIBERGLASS
CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS C YES	CLASS A YES
X	X	X	X	X	X
NA			NA	NA	NA
	X	X			
	NA	NA			
X			X	X	X

GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
SUMMIT	TUSCAN 30	TUSCAN 25	PREMIER SHADOW	PREMIER SHAKE	PROSEAL 30
FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC	ORGANIC
CLASS A 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	X		
				X	X
X		X	NA	NA	NA
	X				
			NA	NA	NA

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	SUPER SEAL	GLOBE SEAL
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 D3161-93 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 D225-86 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 STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Self-sealing		
Type II Non-self-sealing		
D. ASTM D 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NA	NA
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	WINDLOCK	FRENCH ROYALE
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 D3161-93 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 D225-86 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 STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Self-sealing		
Type II Non-self-sealing		
D. ASTM D 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	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.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
KLIP-LOK	FRENCH ESTATE	GLOBE 25	GLOBE 30	FIRE-HALT	FIRESCREEN PLUS
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
		NA	NA	NA	NA
	X				
NA	NA	X	X	X	X
NA	NA				

GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO. INC.	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
FIRESCREEN	HIGH SIERRA	ARCHITECT 80	#202 DURA-SEAL	#204 DURA-SEAL	#210 PRO-25 SBS MODIFIED
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
X	X	X	YES	YES	YES

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME	#230 ALASKAN SBS MODIFIED  FIBERGLASS	#240 HURRICANE SBS MODIFIED ALGAE RESISTANT 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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME	#250 MONTEREY SBS MODIFIED  FIBERGLASS	#250 MONTEREY SBS MODIFIED ALGAE RESISTANT 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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

# Asphalt Shingles Part 2

HERBERT MALARKEY ROOFING COMPANY	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
#270 ASPEN ARCHITECTURAL	CATHEDRAL 25	CHATEAU SHADOW BAND	RENAISSANCE XL	CROWNE 30	ROYAL VICTORIAN
FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC	ORGANIC	ORGANIC
CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA	NA			X	
		X	X		X
X	X	NA	NA	NA	NA
NO	YES	NA	NA	NA	NA

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
SKYLINE 25	ARISTOCRAT	IMPERIAL GENTRY	IMPERIAL SEAL/20	IMPERIAL GLASS/20	ARMOUR LOCK
ORGANIC	ORGANIC	FIBERGLASS	ORGANIC	FIBERGLASS	ORGANIC
CLASS C YES	CLASS C YES	CLASS A YES	CLASS C YES	CLASS A YES	CLASS C YES
X	X	X	X	X	X
		NA		NA	
X	X		X		X
NA	NA	X	NA	X	NA
NA	NA	YES	NA	YES	NA

# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	NEW ENGLANDER	ARMOUR PLUS 20
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NA	NA
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	ULTRA LOCK 25	DYNASTY
FELT MATERIAL	ORGANIC	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS C	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-93 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 D225-86 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	NA
C. ASTM D3018-90 STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	NA	X
D. ASTM D 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NA	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

# Asphalt Shingles Part 2

IKO MANUFACTURING INC.	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
CAMBRIDGE ULTRA	CLASSIC	SUPREME	CLASSIC (METRIC)	SUPREME (METRIC)	SUPREME SHADOW
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	NO	YES	NO	YES	YES

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	PABCO ROOFING PRODUCTS
GLASLOCK	OAKRIDGE II	PROMINENCE	OAKRIDGE PLUS	OAKRIDGE SHADOW	PABCO PREMIER 25 YEAR
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	NO	YES	YES	YES	



# Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	PABCO PREMIER 30 YEAR	PABCO PREMIER 40 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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	PABCO HM-30	PABCO GT-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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		
5. SEE APPENDIX IF CHECKED		

NA=not applicable



# Asphalt Shingles Part 2

PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
PABCO SG-25	PABCO GG-20	MONARCH	PREMIER 25 ALGAE BLOCK	SG-25 ALGAE BLOCK	ORGANIC-25 SEAL-DOWN
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	TYPE I	TYPE I	TYPE I	X
NA	NA	NA	NA	NA	
					X
					NA
X	X	TYPE I	TYPE I	TYPE I	
		YES	YES	YES	

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
GLASS-SEAL	GLASS-SEAL AR	ELITE GLASS-SEAL	ELITE GLASS SEAL AR	TAM-LOC GLASS	HERITAGE
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	X
					NA
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 25	HERITAGE 25 AR
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	HERITAGE 30	HERITAGE 30 AR
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 D3161-93 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 D225-86 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 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 3462-93a STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)		
5. SEE APPENDIX IF CHECKED		

NA=not applicable

# Asphalt Shingles Part 2

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
HERITAGE 40	HERITAGE 40 AR	HERITAGE M25	HERITAGE M30	HERITAGE M40
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X
NA	NA	NA	NA	NA
X	X	X	X	X
YES	YES			YES



# **ASPHALT SHINGLE WARRANTIES**

Asphalt Shingle Warranties

1. Identity of issuing entity	Atlas Roofing Corporation	Bird Incorporated	Bird Incorporated
2. Title, original publication date, and identifying symbol, if any	"Limited Warranty Shingles and Roll Roofing Products," AS-LWS Rev. 7/86	"Privileged Roofing Warranty", June 1, 1993	"Limited Warranty Against Leakage Plus Five Year Wind Warranty", May 1, 1994; VGI 08/84
3. Products covered	StormMaster LM, StormMaster ST, Pinnacle Plus, Pinnacle 1, Pinnacle Classic, GlassMaster 25, GlassMaster 20, GlassMaster T-LOK, Chalet, Plainsman, Plainsman Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK and MOD 90 MSR (See Item No. 18)	Rootscape Plus, Architect 80, Freline, Mark 80, Seal King	Rootscape Plus, Architect 80, Woodscape, Mark 80, Frelina, Seal King, Jet, Wind Seal 80
4. Scope of coverage	Atlas warrants that the roofing products are free from manufacturing defects that would reduce the usable life of the product. Atlas warrants that its algae-resistant shingles (i.e., StormMaster, Pinnacle Plus, Pinnacle Classic, Pinnacle 1, GlassMaster 25, WeatherMaster ST, Chalet and Plainsman) will remain free of obvious and unsightly discoloration due to algae growth.	Bird warrants the Bird shingles are free from manufacturing defects that cause leaks in roof under normal exposure conditions.	Bird warrants the Bird shingles are free from manufacturing defects that cause leaks under normal exposure conditions.
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	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: 40 years: StormMaster LM, Pinnacle Plus 30 years: StormMaster ST, Pinnacle 1, Pinnacle Classic 25 years: StormMaster 20, GlassMaster T-LOK, Chalet, Plainsman, Plainsman Organic, WeatherMaster ST, WeatherMaster T-LOK 20 years: GlassMaster 20, WeatherMaster 20 For Algae Resistance: 10 years For Wind Coverage: 5 years	40 years: Rootscape Plus 30 years: Architect 80, Freline, Mark 80 25 years: Seal King 20 years: Wind Seal 80	40 years: Rootscape Plus 30 years: Architect 80, Mark 80, Frelina 25 years: Woodscape, Seal King, Jet 20 years: Wind Seal 80
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years: StormMaster LM, Pinnacle Plus, Pinnacle 1, Pinnacle Classic StormMaster ST, GlassMaster 25, GlassMaster 20, WeatherMaster T-LOK, Chalet, Plainsman, Plainsman Organic, WeatherMaster 20, WeatherMaster T-LOK After one year: MOD 90 MSR	After five years	Immediately upon application
5c. What is the prorating formula?	StormMaster LM, Pinnacle Plus: 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 1, Pinnacle Classic: 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: 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 60/360). GlassMaster 25, WeatherMaster ST, WeatherMaster T-LOK, Chalet, Plainsman, Plainsman Organic, WeatherMaster 20, 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).	Rootscape Plus: 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 60/480). Architect 80, Freline, Mark 80: 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 60/360). Seal King: 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 60/300).	Rootscape Plus: Warranty is reduced by 1/480 for each month of service from date of installation. Architect 80, Mark 80, Frelina: Warranty is reduced by 1/360 for each month of service from date of installation. Woodscape, Seal King, Jet: Warranty is reduced by 1/300 for each month of service from date of installation. Wind Seal: Warranty is reduced by 1/240 for each month of service from date of installation.
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 prorating. 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.	When shingles are applied by a Bird "Certified" roofing contractor, Bird, at its election, will repair or replace, free of charge, any shingles proven to be defective during the first five years. After five years, Bird will contribute toward the cost to the homeowner/consumer of repairing or replacing defective shingles, calculated by using the reasonable cost of replacement shingles, exclusive of labor and then applying the prorating schedule.	If leaks caused by manufacturing defects in the Bird shingles are discovered, Bird will contribute a prorated portion of the repair or replacement costs based on reasonable replacement cost of the defective shingles, including labor, exclusive of costs of roof tear-off, flashing, metal work, underlayment, ice and water barrier, and disposal cost. (See Item No. 11 below.)
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 Plus, Pinnacle 1 and Pinnacle Classic, for the first three years for StormMaster ST, GlassMaster 25, WeatherMaster 20, WeatherMaster T-LOK, Chalet, Plainsman, Plainsman Organic, WeatherMaster ST, 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, labor costs are excluded.	For the first five years, warranty includes labor to install replacement shingles. After five years, labor is excluded.	Yes



# Asphalt Shingle Warranties

1. Identity of issuing entity	BPCO, a division of Emco Limited	The Celotex Corporation	Custom Roofing Corporation
2. Title, original publication date, and identifying symbol, if any	BPCO "Five-Star Shingle Warranty"; RW-Jan. 96	"Celotex Residential Roofing Shingles—Material & Labor Limited Warranty"; January 1, 1995; Form No. 1824-1182, Rev. 0	"Limited Warranty Custom Roofing Asphalt Roofing Shingles"; June 1985
3. Products covered	Super Eclipse, Eclipse HIR, Tradition, Roofmaster Classic, Roofmaster, Rampart, Tile-Lok, Egard Pro Standard, Citadel, Tile-On, LoSlope	Presidential Shake, Dimensional/40, Dimensional/30, Dimensional/25, Storm King/25, Standard Strip/20, Sol Seal/20	Vanguard III, Dynasty Heavyweight, Diamond Crest III, Vanguard Seal Top, T Locks
4. Scope of coverage	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 Resistant will remain free from algae and fungus growth that adversely affect overall appearance.	Custom Roofing warrants to the original consumer purchaser that roofing shingles manufactured by Custom Roofing are free of any manufacturing defects that would adversely affect the performance of the shingles.
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; warranty only covers leakage due to manufacturing defects.	No; warranty covers manufacturing defects and fungus resistant shingles (FRS) will remain free from algae and fungus growth.	No; warranty covers any manufacturing defects that would adversely affect the performance of the shingles.
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	35 years: Super Eclipse, Eclipse HIR 30 years: Eclipse, Eclipse HIR, Tradition 25 years: Roofmaster Classic, Roofmaster, Rampart, Tile-Lok, Egard Pro Standard 20 years: Citadel, Tile-On 12 years: LoSlope Warranty period for Eclipse HIR 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.	For Manufacturing Defects 40 years: Presidential Shake, Dimensional/40 30 years: Dimensional/30 25 years: Dimensional/25, Storm King/25 20 years: Standard Strip/20, Sol Seal/20 For Algae Resistance 15 years: FRS Presidential Shake, FRS Dimensional/40, FRS Dimensional/30, FRS Storm King/25 Shingles 10 years: FRS Dimensional/25, FRS Standard Strip/20 (See Item No. 15.)	30 years: Vanguard III, Dynasty Heavyweight 25 years: Vanguard, Diamond Crest III 20 years: Seal Top, T Locks
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years: Super Eclipse, Eclipse HIR, Tradition, Roofmaster Classic, Roofmaster, Rampart, Tile-Lok, Egard Pro Standard, Citadel, Tile-On After three years: LoSlope	After one year	After one year
5c. What is the prorating formula?	Super Eclipse: 14.28% reduction in the sixth year; 2.88% additional annual reduction each year thereafter. Eclipse, Tradition: 18.67% reduction in the sixth year; 3.33% additional annual reduction each year thereafter. Roofmaster Classic, Roofmaster, Rampart, Tile-Lok, Egard Pro Standard: 20% reduction in the sixth year; 4% additional annual reduction each year thereafter. Citadel, Tile-On: 25% reduction in the sixth year; 5% additional annual reduction each year thereafter. LoSlope: 25% reduction in the fourth year; 8.33% additional annual reduction each year thereafter.	For Manufacturing Defects 1/480 for each month of use received. Dimensional/30: After one year, warranty is reduced by 1/360 for each month of use received. Dimensional/25, Storm King/25: After one year, warranty is reduced by 1/300 for each month of use received. Standard Strip/20, Sol Seal/20: After one year, warranty is reduced by 1/240 for each month of use received. For Algae Resistance FRS Presidential Shake, FRS Dimensional/40, FRS Dimensional/30, FRS Storm King/25: Warranty is reduced 1/180 for each month of use. FRS Dimensional/25, FRS Standard Strip/20: Warranty is reduced by 1/120 for each month of use.	Vanguard III, Dynasty Heavyweight: After one year, warranty is reduced by 1/360 for each month of service from the date of installation (so that at the beginning of the second year, warranty would be reduced by 1/360). Diamond Crest III, Vanguard: 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 1/300). Seal Top, T Locks: 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 1/240).
6. Nature of Remedy	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 the 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 prorated repair or replacement cost, excluding costs to tear-off or dispose of defective shingles. For algae resistance, Celotex will pay the prorated cost to repair or replace defective FRS shingles. In the third five years, Celotex reserves the right to clean the fungus from the shingles rather than to repair or replace them.	For the first year, Custom Roofing will pay the reasonable cost, including labor but excluding the cost of flashings and related metal work, for repair or replacement of any defective shingles. After one year, Custom Roofing's maximum contribution toward the cost of repair or replacement of defective shingles shall be prorated and calculated using the reasonable cost of replacement shingles, exclusive of labor.
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	For the first year, warranty includes labor. After one year, labor to replace defective shingles is excluded from calculation of Custom Roofing's maximum contribution.



6c.	Does the warranty provide for labor to remove defective shingles?	Yes	No	No	In no event will Custom Roofing be responsible for the cost of shingle tear-off except where tear-off is required by local building codes for the repair or replacement authorized by Custom Roofing.
6d.	Does the warranty cover disposal of defective shingles?	No	No	No	No
6e.	Does the warranty apply to any materials other than shingles?	No	No	No	No
7.	Is there a monetary limitation?	BPCD will pay the repair or replacement cost of the defective shingles, according to BPCD'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 BPCD shingles.	During the first year, 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.	No	No monetary limitation for first year. After one year, Custom Roofing's maximum contribution toward the cost to the homeowner/consumer of repair or replacement of defective shingles shall be calculated using the reasonable cost of replacement shingles, exclusive of labor and then prorated; any cost to Custom Roofing during previous years will also be deducted.
8.	Specific Exclusions from Coverage (See Warranty Introduction for codes.)	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	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 18, 19, 23 (Custom Roofing indicates that 8, 12, and 22 are also applicable.)	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 18, 19, 23 (Custom Roofing indicates that 8, 12, and 22 are also applicable.)
9.	Wind Coverage/Exclusion	BPCD 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 39-48 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 80 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.	Shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 54 mph only during the first five years after installation. Shingles installed in the 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. In cases where Custom Roofing determines that thermal sealing should have occurred and did not due to a manufacturing defect, Custom Roofing 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 classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 54 mph only during the first five years after installation. Shingles installed in the 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. In cases where Custom Roofing determines that thermal sealing should have occurred and did not due to a manufacturing defect, Custom Roofing 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.
10.	Notification Requirements	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 BPCD, (in Eastern Canada and USA: 9510 St-Patrice, Lasalle (Quebec), Canada, H8R 1H9, Fax No. (514) 384-0130; or in Western Canada: 3705-101 Avenue N.E., P.O. Box 576, Edmonton, Alberta T5J 2K9, Fax No. (403) 485-1181). 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.	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.	Custom Roofing must be notified by registered mail at P.O. Box 740, Naples, Texas 75566, of any leaks alleged to result from manufacturing defects within 30 days following discovery of the alleged need of repairs.
11.	Determination of Warranty Applicability	BPCD's option to repair or replace defective shingles.	Neutral (no provision)	Neutral (no provision)	Custom Roofing determines if there are manufacturing defects covered by the warranty. Custom Roofing is not liable for any cost or repair or replacement that is not authorized in Warranty by Custom Roofing.
12.	Does the issuing entity manufacture and/or sell the shingles?	BPCD manufactures and sells the shingles.	Celotex manufactures and sells the shingles.	Celotex manufactures and sells the shingles.	Custom Roofing manufactures and sells the shingles.
13.	Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	A, B, C, E	C, E. Warranty also states that warranty will be void if information submitted on warranty information form is erroneous.	C, E. Warranty also states that warranty will be void if information submitted on warranty information form is erroneous.	A, C, E, G
14.	Inclusion of Consequential Damages	No	No	No	No
15.	Assignability	Warranty is transferrable.	For Dimensional/30, Dimensional/40 and Presidential shingles, warranty is transferable under certain conditions. Transfer must be requested in writing within 30 days of real estate transfer and must include copies of the deed, warranty and a check or money order. The transfer fee is \$150, plus \$3.00 per square. 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 application. If a transfer occurs during years 2 through 5, labor and material replacement will be prorated. Upon transfer, the new limited warranty term will be ten years from the date of application. If a transfer occurs during years 6 or 7, Celotex's liability is limited to the prorated cost of replacement shingles. Upon transfer, the new limited warranty term will be seven years from date of application.	For Dimensional/30, Dimensional/40 and Presidential shingles, warranty is transferable under certain conditions. Transfer must be requested in writing within 30 days of real estate transfer and must include copies of the deed, warranty and a check or money order. The transfer fee is \$150, plus \$3.00 per square. 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 application. If a transfer occurs during years 2 through 5, labor and material replacement will be prorated. Upon transfer, the new limited warranty term will be ten years from the date of application. If a transfer occurs during years 6 or 7, Celotex's liability is limited to the prorated cost of replacement shingles. Upon transfer, the new limited warranty term will be seven years from date of application.	Warranty is not assignable or transferable under any circumstances.
16.	Cost to Obtain	None	None	None	No charge for limited warranty. A fungus resistant warranty is available for a charge.
17.	Is the warranty backed by insurance coverage?	No	[Celotex did not respond to Item 17 on NRCA questionnaire.]	[Celotex did not respond to Item 17 on NRCA questionnaire.]	No
18.	Is the warranty an additional or exclusive remedy for the owner?	There are no other express warranties of BPCD, whether oral or written, and BPCD is not responsible or liable for any promises, representations, commitments or agreements made by employees, agents or representatives of BPCD which are not in accordance with BPCD 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.	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.	Custom Roofing is not liable for any damage to any building, either exterior or interior, or property contained therein or for injuries or damages of any kind whatsoever.
19.	Special Features/Conditions	Because color variations exist between shingles manufactured at different times and because BPCD may discontinue or modify color, BPCD reserves the right to replace defective shingles with shingles of the nearest color. BPCD 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. Warranty also executed by roofing contractor.	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. Warranty also executed by roofing contractor.	
20.	Executed by Owner?	Yes (See Item No. 19.)	Yes (See Item No. 19.)	Yes (See Item No. 19.)	Yes; owner to execute registration form and mail to Custom Roofing, P.O. Box 740, Naples, TX 75566, within 30 days of the application of shingles.

# Asphalt Shingle Warranties

Asphalt Shingle Warranties		Elk Corporation		Elk Corporation of Alabama	
1. Identity of issuing entity	Custom Roofing Corporation	Elk Corporation		Elk Corporation of Alabama	
2. Title, original publication date, and identifying symbol, if any	Custom Roofing "Asphalt Fiberglass Shingles Limited Warranty"; August 15, 1995	"Limited Warranty Prestique Asphalt Shingles"; February 1, 1993		Elk "Capstone Roofing Products Warranty"	
3. Products covered	Dynasty, T-Lock, Diamond Crest III, Vanguard, Seal-Top	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	Custom Roofing warrants to the original consumer purchaser that roofing shingles manufactured by Custom Roofing are free of any manufacturing defects that would adversely affect the performance of the shingles. Custom Roofing fungus resistant shingles shall resist fungus-algae growth.	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.	
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 any manufacturing defects that would adversely affect the performance of the shingles. Fungus resistant shingles shall resist fungus-algae.	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	For Manufacturing Defects: 30 years: Dynasty, T-Lock 25 years: Diamond Crest III, Vanguard 20 years: Seal-Top  For Fungus Resistance: five years  For Wind Resistance: five years	For Manufacturing Defects 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  For Algae Resistance 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 one year	After one year		After ten years for manufacturing defects	
5c. What is the prorating formula?	T-Lock, Dynasty: After one year, warranty is reduced by 1/360 for each month of service from the date of installation (so that at the beginning of the second year, warranty would be reduced by 1/2000). Diamond Crest III, Vanguard: 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 1/2000). Seal-Top: 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 1/240).	Prestique Plus, Prestique Plus with StainGuard: After one year, warranty is reduced by 1/480 for each month since original application. Prestique I, Prestique I with StainGuard: After one year, warranty is reduced by 1/360 for each month since original application. Prestique II, Prestique II with StainGuard: 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 1/2000).	
6. Nature of Remedy	For the first year, Custom Roofing will pay the reasonable cost, including labor but excluding the cost of flashings, dump fees and related metal work, for repair or replacement of any defective shingles. After one year, Custom Roofing's maximum contribution toward the cost of repair or replacement of defective shingles shall be prorated and calculated using the reasonable cost of repair or replacement shingles, exclusive of labor. Custom Roofing will have 90 days after receipt of notification of defects to make or cause to be made repairs or replacement unless otherwise prevented by acts of God.	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?	For the first year, warranty includes labor. After one year, labor to replace defective shingles is excluded from calculation of Custom Roofing's maximum contribution.	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?	In no event will Custom Roofing be responsible for the cost of shingle tear-off except where tear-off is required by local building codes for the repair or replacement authorized by Custom Roofing.	No	No	No	Elk's liability is limited to reasonable cost of replacement. The amount of refund will be based on the replacement purchase price.
6d.	Does the warranty cover disposal of defective shingles?	No	No	No	No	
6e.	Does the warranty apply to any materials other than shingles?	No	No	No	No	
7.	Is there a monetary limitation?	No monetary limitation for first year. After one year, Custom Roofing's maximum contribution toward the cost to the homeowner/consumer of repair or replacement of defective shingles shall be calculated using the reasonable cost of repair or replacement, exclusive of labor and then credited any cost to Custom Roofing during previous years will also be deducted.	No	No	No	
8.	Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 16, 18, 23. Warranty also excludes granule sloughing due to excessive amount of granules on the shingles and yellow stain appearance due to transfer of backing material.	No	No	No	1, 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 16, 18, 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.
9.	Wind Coverage/Exclusion	Shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 54 mph only during the first five years after installation. Shingles installed in the 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. In the event that shingles fail to self-seal after proper installation and climatic exposure, Custom Roofing's sole responsibility shall be to pay the reasonable cost to repair or replace blown-off shingles and the reasonable cost to hand seal all affected shingles, excluding labor.	No	No	No	During the first five years, Elk's Prestique shingles will be resistant to blow-offs in wind velocities up to 80 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.
10.	Notification Requirements	Any claim under the warranty must be made in writing, by registered or certified mail, within thirty (30) days after discovery of the defect, with a copy of warranty card and Proof of Purchase of the shingles to Custom Roofing Company, P.O. Box 740, Naples, TX 75568. Custom Roofing shall be given the opportunity to be provided with samples of the shingles and photographs showing the extent of the problem.	No	No	No	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	Custom Roofing determines if there are manufacturing defects covered by warranty.	No	No	No	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?	Custom Roofing manufactures and sells the shingles.	No	No	No	Elk manufactures and sells the shingles.
13.	Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	A, C, E, G	No	No	No	A, C, E, G
14.	Inclusion of Consequential Damages	No	No	No	No	No
15.	Assignability	Warranty is not assignable or transferable under any circumstances.	No	No	No	Warranty is transferable. Successor purchaser or transferee must complete and return Transfer Modification Card within 30 days after transfer of the building to the transferee along with a \$50 transfer fee.
16.	Cost to Obtain	No charge for limited warranty. A fungus resistant warranty is available for an additional \$3.00 per square.	No	No	No	None
17.	Is the warranty backed by insurance coverage?	No	No	No	No	Elk indicates that it is self-insured.
18.	Is the warranty an additional or exclusive remedy for the owner?	Custom Roofing is not liable for any damage to any building, either exterior or interior, or property contained therein or for injuries or damages of any kind whatsoever.	No	No	No	Statements in the warranty constitute the only warranty extended by Elk.
19.	Special Features/Conditions	Custom Roofing Limited Warranty applies to shingles sold on or after August 15, 1995, and supersedes all previously published warranties. Any repair or replacement which is not authorized in writing by Custom Roofing shall be at the owner's expense. In the event that a shingle's color or design is discontinued or modified, Custom Roofing reserves the right to replace defective shingles with shingles of similar color and/or design.	No	No	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.
20.	Executed by Owner?	Yes: owner to execute warranty registration form and mail to Custom Roofing Company, P.O. Box 740, Naples, TX 75568, within 30 days of the application of shingles.	No	No	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	Grand Sequoia Shingles, "Limited Warranty on Grand Sequoia Fiberglass Asphalt Shingles", January 1, 1986	"Limited Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles", January 1, 1985; 01284	Stonehenge and Floridian Shingles, "Limited Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles", January 1, 1986
3. Products covered	Grand Sequoia	Timberline Ultra, Timberline, Timberline 25, Marquis, Royal Sovereign, Sentinel, Stateline, D.C. Title-On	Stonehenge and Floridian Shingles
4. Scope of coverage	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.	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.
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.	No; warranty covers manufacturing defects that would adversely affect performance. All shingles except D.C. Title-On may also be warranted against fungus-algae growth.	No; warranty covers manufacturing defects that would adversely affect performance and 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	40 years	For Manufacturing Defects 40 years: Timberline Ultra 30 years: Timberline, Marquis, Stateline 25 years: Timberline 25, Royal Sovereign, D.C. Title-On 20 years: Sentinel  For Algae Resistance 15 years: Timberline Ultra, Timberline, Timberline 25, Marquis, Royal Sovereign, Stateline 10 years: Sentinel	For Manufacturing Defects: 25 years For Algae Resistance: 15 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years	After one year	For Manufacturing Defects: After five years For Algae Resistance: After one year
5c. What is the prorating formula?	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).	For Manufacturing Defects Timberline Ultra: 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). Timberline, Marquis, Stateline: After one year, warranty is reduced by 1/380 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/380). Timberline 25, Royal Sovereign, D.C. Title-On: 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). Sentinel: 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). For Algae Resistance Timberline Ultra, Timberline, Royal Sovereign: After one year, warranty is reduced by 1/180 for each month of service from date of installation. Sentinel: After one year, warranty is reduced by 1/120 for each month of service from date of installation.	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).  For Algae Resistance: After one year, warranty is reduced by 1/180 for each month of service from date of installation.
6. Nature of Remedy	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 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 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 of 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.	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 replacement 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.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes



# 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", GSBA No. 070104	Herbert Malarkey Roofing Company "30-Year Limited Warranty for Aspen Shingles", 1991
3. Products covered	Summit III, Summit, Spirit, Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lox, Premium-25, Asphalt-20, Asphalt T-Lox	Sierra Shake, High Sierra, Architect 80/Estate, Fire Halt, Firescreen Plus, Firescreen	Aspen roofing 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 resist 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 that may cause leaks under normal exposure conditions.	Malarkey warrants that the Aspen roofing shingles are free of any manufacturing defects that will adversely affect the performance of the shingles.
4a. Does the warranty provide coverage for defects in manufacturer?	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 that will adversely affect performance of the shingles.
4d. Does the warranty provide coverage for flashing, fasteners, or other materials 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, Spirit 25 years: Tough-Glass Plus, Tough-Glass T-Lox, Premium-25, Asphalt T-Lox 20 years: Tough-Glass, Asphalt-20  For Algae Resistance: 10 years	40 years: Sierra Shake, High Sierra 30 years: Architect 80/Estate 25 years: Fire Halt, Firescreen Plus 20 years: Firescreen	30 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years: Summit III, Summit, Spirit After three years: Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lox, Premium-25, Asphalt-20, Asphalt T-Lox	After five years: Sierra Shake, High Sierra, Architect 80/Estate, Fire Halt After three years: Firescreen Plus, Firescreen	After five years
5c. What is the prorating formula?	Summit III: After initial five years, warranty is reduced by 1/400 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 60/400). Summit, Spirit: After initial five years, warranty is reduced by 1/380 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 60/380). Tough-Glass Plus, Tough-Glass T-Lox, Premium-25, Asphalt T-Lox: 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). Tough-Glass, Asphalt-20: 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).	Sierra Shake, High Sierra: After initial five years, warranty is based upon the original cost of the defective shingles exclusive of labor, roof tear-off and flashing and reduced by 1/300 for each month since original application (so that at beginning of sixth year, warranty would be reduced by 60/300). Architect 80/Estate, Fire Halt: After initial five years, warranty is based upon the original cost of the defective shingles exclusive of labor, roof tear-off and flashing 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). Firescreen Plus: After initial three years, warranty is based upon the original cost of the defective shingles exclusive of labor, roof tear-off and flashing 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). Fire Screen: After initial three years, warranty is based upon the original cost of the defective shingles exclusive of labor, roof tear-off and flashing 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, Malarkey will pay the prorated cost of repair or replacement, including labor, of the defectively manufactured shingles.
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 pre-fering. 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 will pay the reasonable cost, including labor, but excluding the cost of tear-off, disposal, flashing, and related metal work, for the repair or replacement of any defectively manufactured 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?	For the first five years for Summit III, Summit, Spirit and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lox, Premium-25, Asphalt-20, Asphalt T-Lox, warranty covers replacement cost, plus 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 shingles, warranty includes labor to replace defective shingles. After five years, labor to replace defective shingles is excluded from calculation of GS's maximum liability. For first three years for Firescreen and Firescreen Plus shingles, 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, Spirit and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-Lox, Premium-25, Asphalt-20, Asphalt T-Lox, 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



# 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	Herbert Malarkey Roofing Company "Limited Warranty"; 1877	Herbert Malarkey Roofing Company "Limited Warranties for the Hurricane Shingle"; 1883	Herbert Malarkey Roofing Company "Limited Warranty"; 1892
3. Products covered	Type 202, 204 Premium Metric Fiberglass, Type 210, 230 SBS Metric Polyglass	Hurricane Shingles, Type 240 SBS Metric Polyglass	Monterey-Type 250 SBS Metric Polyglass Shingles
4. Scope of coverage	Malarkey warrants its shingles to be free from manufacturing defects.	The Hurricane shingles are free from manufacturing defects.	Malarkey warrants its Monterey shingles to be 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.	No; warranty covers manufacturing defects, including algae resistance. (See item 19 below.)	No; warranty covers manufacturing defects. [Malarkey indicates warranty covers algae resistance for AR colors.]
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: 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	25 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	Immediately upon application	After one year	Immediately upon application
5c. What is the prorating formula?	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).	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 in the warranty.
6. Nature of Remedy	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.	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 period, less all sums previously paid under 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.
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?	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 labor to remove defective shingles.]	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.]
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?	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.	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.
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 4, 5, 6, 7, 8, 9, 10, 13, 18, 23	1, 4, 5, 6, 7, 8, 9, 10, 13, 18, 23	1, 4, 5, 6, 7, 8, 9, 10, 13, 18, 23
9. Wind Coverage/Exclusion	Malarkey warrants that up to five years from the date of installation, its shingles with 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 80 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.	Malarkey warrants for five years from the date of installation, that the Monterey shingles will resist damage from winds up to 70 mph. 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 shall be paid by Malarkey for removal of damaged shingles or the installation of replacement shingles.
10. Notification Requirements	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.	Written notice of the discovery of manufacturing defects, by registered or certified mail, shall be given to Malarkey within 30 days after discovery.
11. Determination of Warranty Applicability	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.	Malarkey shall be given opportunity to inspect the material and to be provided with samples before any steps are taken to adjust the claim.
12. Does the Issuing entity manufacture and/or sell the shingles?	Malarkey manufactures and sells the shingles.	Malarkey 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, G, I	C, G, I	C, G, I
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty is valid only to the original owner and is not transferable.	Warranty is valid only to the original owner and is not transferable.	Warranty is valid only to the original owner and is nontransferable.
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?	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.	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.
19. Special Features/Conditions	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 ten 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 nine-year (108-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 ten-year (120-month) warranty period.	See Item 20.
20. Executed by Owner?	Yes: the owner must complete warranty registration card and return it to Herbert Malarkey Roofing Company, P.O. Box 17217 Kenton Station, Portland, Oregon 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 at Herbert Malarkey Roofing Company, P.O. Box 17217 Kenton Station, Portland, Oregon 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, Oregon 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", April 1, 1986	"Asphalt Shingle Limited Lifetime Warranty Dynasty Coverage", June 1, 1986	"Limited Warranty on Fungus Resistant Shingles", May 1986; Pub. No. 16-RP-13760-L
3. Products covered	Chateau Shadow Band, Crown 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 Shadow Fungus Resistant, Oakridge Plus Fungus Resistant, Oakridge II Fungus Resistant, Prominence Fungus Resistant, Supreme Shadow Fungus Resistant, Supreme Fungus Resistant, Classic Fungus Resistant
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 to the original consumer purchaser that its fungus resistant shingles are free from manufacturing defects that result in leaks that affect shingle performance and that the FR shingles will remain free from discoloration due to algae, lichen, and cyanobacterial growths which cause an obvious and unsightly appearance on the FR shingles.
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 leakages other than 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?	Yes	No	No
5. Length of Coverage	30 years: Chateau Shadow Band, Crown 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline 25, Cathedral 25, Imperial Seal 20, Imperial Glass 20 (See No. 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 original consumer-purchaser. For Algae Resistance: Ten years. For Wind Coverage: Five years.	Non-Fungus Manufacturing Defects: 20 years: Oakridge Shadow Fungus Resistant 30 years: Oakridge Plus Fungus Resistant, Prominence Fungus Resistant 25 years: Oakridge II Fungus Resistant, Supreme Shadow Fungus Resistant, Supreme Fungus Resistant 20 years: Classic Fungus Resistant Manufacturing Defects Relating to Fungus Resistance: 15 years: Supreme FR, Supreme Shadow FR, Prominence FR, Oakridge II FR, Oakridge Plus FR, Oakridge Shadow FR 10 years: Classic FR
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After five years: Chateau Shadow Band, Crown 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Cathedral 25, Imperial Gentry 25, Royal Victorian, Imperial Seal 20, Imperial Glass 20 After three years: Chateau Shadow Band, Crown 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Cathedral 25, Imperial Gentry 25, Royal Victorian, Imperial Seal 20, Imperial Glass 20	After seven years	After one year
5c. What is the prorating formula?	After the initial period of three or five years, depending upon the product, see item No. 5b above, all IKO warranties are reduced by 1/25 per month for the first fifteen years of the warranty period. After the first fifteen 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 Chateau Shadow Band, Crown 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Skyline 25, Cathedral 25, and Imperial Seal 20, the warranty is reduced by 1/1000 per month; for Chateau Shadow Band and Crown 30, the warranty is reduced by 1/600 per month (see that at the beginning of the sixteenth year, each warranty would be reduced by 1/800 and then either 1/300, 1/600 or 1/800 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 fifteen years of the warranty period (so that at the beginning of the eighth year, warranty would be reduced by 8/225 and reduced by an additional 1/225 for each month through year 15). After the first fifteen years, the warranty is reduced by 1/1000 per month for the first ten years, and the warranty is reduced 4/2480 (50%) after 480 months.	For Non-Fungus Manufacturing Defects: Oakridge Shadow FR: After one year, warranty is reduced by 1/480 for each month of service from date of installation. Oakridge Plus FR, Prominence FR: After one year, warranty is reduced by 1/360 for each month of service from date of installation. Oakridge II FR, Supreme Shadow FR, Supreme FR: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Classic FR: After one year, warranty is reduced by 1/240 for each month of service from date of installation. For Manufacturing Defects Relating to Fungus Resistance: Oakridge Shadow FR, Oakridge Plus FR, Oakridge II FR, Prominence FR, Supreme Shadow FR, Supreme FR: After one year, warranty is reduced by 1/160 for each month of service from date of installation. Classic FR: After one year, warranty is reduced by 1/120 for each month of service from date of installation.
6. Nature of Remedy	IKO will at its option have the shingles repaired or replaced free of charge, exclusive of costs for tear off, flashing 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. 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 that have developed the algae growth that cause discoloration.	For the first year, Owens Corning shall pay the reasonable cost of repair or replacement of the defective FR 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.
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 Shadow Band, Crown 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.	
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



# Asphalt Shingle Warranties

1. Identity of Issuing entity	Owens Corning	PABCO Roofing Products, a division of Pacific Coast Building Products, Inc.	Tamko Roofing Products, Inc.
2. Title, original publication date, and Identifying symbol, if any	"Limited Warranty on Roofing Shingles"; May 1988; Pub. No. 16-RR-0345E-U	"Shingle Warranty"	Tamko Roofing Products "Algae Resistant Shingles Limited Warranty," January 31, 1988; 997288, JP23190
3. Products covered	Oakridge Shadow, Oakridge Plus, Oakridge II, Prominence, Supreme Shadow, Supreme, Classic, Glaslock	PABCO HM-30, PABCO GT-25, PABCO HD-25, PABCO SG-25, 3M Algae Block, PABCO GG-20, PABCO Laminated Shingles: Premier-40, Premier-30, Premier-25, Premier-25 3M Algae Block	Heritage 40 AR, Heritage 30 AR, Heritage 25 AR, Elite Glass-Seal AR, Glass-Seal AR
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.	PABCO warrants to the original 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.	Tamko warrants that the Tamko shingles are free from manufacturing defects which 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 covers manufacturing defects that affect shingle performance.	No; warranty also states that shingles are free from manufacturing defects and will remain serviceable.	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 Gloeocapsa, that adversely affects 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	40 years: Oakridge Shadow 30 years: Oakridge Plus, Prominence 25 years: Oakridge II, Supreme Shadow, Supreme, Glaslock 20 years: Classic	40 years: PABCO Premier-40 30 years: PABCO Premier-30, PABCO HM-30 25 years: PABCO Premier-25, PABCO HD-25, PABCO GT-25, PABCO SG-25, PABCO GG-20 20 years: PABCO SG-25 3M Algae Block, PABCO Premier-25 3M Algae Block	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
5a. Is the warranty prorated?	Yes	Yes	Warranty coverage for manufacturing defects is prorated; warranty coverage for algae resistance is not prorated.
5b. When does prorating begin?	After one year	After one year	After one year for manufacturing defects
5c. What is the prorating formula?	Oakridge Shadow: After one year, warranty is reduced by 1/480 for each month of service from the date of installation. Oakridge Plus, Prominence: After one year, warranty is reduced by 1/360 for each month of service from the date of installation. Oakridge II, Supreme Shadow, Supreme, Glaslock: After one year, warranty is reduced by 1/300 for each month of service from the date of installation. Classic: After one year, warranty is reduced by 1/240 for each month of service from the date of installation.	Premier-40: 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). Premier-30, HM-30: 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 would be reduced by 12/360). Premier-25, HD-25, GT-25, SG-25, 3M Algae Block and Premier-25 3M Algae Block: After one year, warranty is reduced by 1/300 for each month since original application (so that at the beginning of the second year, warranty would be reduced by 12/300). GG-20: 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).	Heritage 40 AR: After one year, warranty is reduced by 1/480 for each month of service from date of installation. Heritage 30 AR: After one year, warranty is reduced by 1/360 for each month of service from date of installation. Heritage 25 AR, Elite Glass-Seal AR: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Glass-Seal AR: After one year, warranty is reduced by 1/240 for each month of service from date of installation.
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 prorated 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.	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.	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.
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 *	Warranty states that PABCO will repair or replace defective shingles. (PABCO indicates that warranty does not provide for labor to install replacement shingles.)	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?	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.	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, HK-30, Premier-25 3M Algae Block: \$50/square; Premier-25, HG-25: \$45/square; SG-25 3M Algae Block: \$49/square; GT-25, SG-25: \$45/square; GB-20: \$40/square. In addition, PABCO's maximum contribution toward the cost of repairing or replacing defective shingles after one year shall be reduced in accordance with the prorating schedule.	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.
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, 4, 6, 7, 8, 9, 13, 18, 19, 23, 24, 28	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.
9. Wind Coverage/Exclusion	During the first five years after installation, shingles classified as "Wind Resistant" shall be resistant to wind damage, after thermal sealing has taken place, at wind velocities up to 80 mph. 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 that do not receive direct sunlight or that 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.	PABCO warrants that its shingles will resist wind blow-off due to wind velocities, including "gusts" up to a maximum of 54 mph 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 these 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 sealing will occur. Shingles installed in the fall or winter may not seal until the following spring. Shingles that 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.	During the first five years after initial application, Tamko shingles shall resist damage by winds up to 80 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.
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, Ohio 43659, within 30 days after discovery of the alleged defect.	Written notification shall be provided to PABCO Roofing Products, 1718 Thoma Road, Tacoma, WA 98421, of any defect promptly following its discovery and submitted with notice of proof of date of purchase and application.	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.
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.	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.	The extent of repair or replacement is at the sole discretion of Tamko.
12. Does the issuing entity manufacture and/or sell the shingles?	Owens Corning manufactures and sells the shingles.	PABCO manufactures and sells the shingles.	Tamko manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E	Application of PABCO roofing products on "Geo-Deltec" dome construction is not warranted or approved under any circumstances.	C, E, F (Hawaii and Alaska are also excluded.)
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	Warranty is not transferrable.	Warranty is transferable.	Warranty shall not be assigned, sold, or transferred in any manner whatsoever.
16. Cost to Obtain	None	None	None
17. Is the warranty backed by Insurance coverage?	No	PABCO indicates that it is self-insured.	No
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 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.	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.
19. Special Features/Conditions	Within 30 days after receipt of written claim, Owens Corning representative will contact consumer regarding the claim.	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. Winter application of shingles should be six nailed and hand sealed as a precaution against blow-offs. PABCO Premier-25 3M Algae Block shingles and SG-25 3M Algae Block shingles will carry a minimum of 10 years Algae Block Limited warranty as warranted by 3M Corporation in conjunction with PABCO Roofing Products' normal warranty.	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.
20. Executed by Owner?	No; contractor or dealer should sign and date the warranty upon completion to help establish proof of purchase.	Yes; after job completion, owner should return the asphalt shingle warranty registration to PABCO Roofing Products.	No

# Asphalt Shingle Warranties

1. Identity of issuing entity	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.
2. Title, original publication date, and identifying symbol, if any	Tamko Roofing Products, Inc. "Fiberglass Shingles Limited Warranty," January 31, 1996; 897448 JP 21371	Tamko Roofing Products "Organic Shingles Limited Warranty," July 15, 1996; 897480, JP21385	Tamko Roofing Products, Inc. "Metric Laminated Shingles Limited Warranty"; January 1995; 897528 JP28994
3. Products covered	Heritage 40, Heritage 30, Heritage 25, Elite Glass-Seal, Glass-Seal, Tam-Loc Glass	Heritage (Organic), 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. (See Special Features/Conditions)	Tamko warrants that the Tamko shingles are free from manufacturing defects that 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?	Yes	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	40 years: Heritage 40 30 years: Heritage 30 25 years: Heritage 25, Elite Glass-Seal, Tam-Loc Glass 20 years: Glass-Seal	30 years: Heritage (Region A) 25 years: Heritage (Region B), Organic Seal-Down 25 (Region A) 20 years: Seal-Down 25 (Region B)	40 years: Heritage M40 30 years: Heritage M30 25 years: Heritage M25
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?	Heritage 40: After one year, warranty is reduced by 1/460 for each month of service from date of installation. Heritage 30: After one year, warranty is reduced by 1/360 for each month of service from date of installation. Heritage 25, Elite Glass-Seal: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Glass-Seal: After one year, warranty is reduced by 1/240 for each month of service from date of installation.	Heritage (Organic) Region A: After one year, warranty is reduced by 1/360 for each month of service from date of installation. Region B: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Seal-Down 25: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Region A: After one year, warranty is reduced by 1/300 for each month of service from date of installation. Region B: After one year, warranty is reduced by 1/240 for each month of service from date of installation.	Heritage M40: 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 1/2480). Heritage M30: 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 1/2360). Heritage M25: 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 1/2300).
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.	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	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, Tanko's maximum liability shall be limited to the reasonable replacement cost of the Tanko shingles and their application. After one year, Tanko'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 year, Tanko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tanko shingles and their application. After one year, Tanko'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 year, Tanko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tanko shingles and their application. After one year, Tanko'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 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 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, Tanko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tanko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tanko will repair or replace any such single. Tanko 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, Tanko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tanko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tanko will repair or replace any such single. Tanko 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	During the first five years after initial application, Tanko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tanko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tanko will repair or replace any such single. Tanko 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.
10. Notification Requirements	Owner must notify Tanko 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 Tanko 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 Tanko 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.
11. Determination of Warranty Applicability	The extent of repair or replacement is at the sole discretion of Tanko.	The extent of repair or replacement is at the sole discretion of Tanko.	Tanko 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 Tanko.
12. Does the Issuing entity manufacture and/or sell the shingles?	Tanko manufactures and sells the shingles.	Tanko manufactures and sells the shingles.	Tanko manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E, F (Hawaii and Alaska also excluded)	C, E, F (See Special Features/Conditions)	C, E, F (California, Hawaii, and Alaska also excluded.)
14. Inclusion of Consequential Damages	No	No	No
15. Assignability	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 Tanko shingles are applied shall void all warranties.
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 expressly in lieu of any other obligations, guarantees and warranties, expressed or implied, and any other obligations or liability on the part of Tanko. 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 Tanko, or any other person, other than Tanko's president, has authority to assume for Tanko any additional liability or responsibility.	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 Tanko. This warranty only applies to shingles applied in certain regions of the country. Because of environmental conditions in Region C, Tanko does not market or recommend Heritage (Organic) or 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 Heritage (Organic) or Organic Seal-Down 25 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 these states listed above, which comprise Region C. 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 Tanko, or any other person, other than Tanko's president, has authority to assume for Tanko any additional liability or responsibility.	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 Tanko. 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 Tanko, or any other person other than Tanko's president, has authority to assume for Tanko 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.
19. Special Features/Conditions	No	No	No
20. Executed by Owner?	No	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

# Fiber-Cement Roof Components

FIBER-CEMENT

1. COMPANY NAME	AMERICAN CEMWOOD CORPORATION	AMERICAN CEMWOOD CORPORATION	AMERICAN CEMWOOD CORPORATION	ETERNIT, INC.
2. PRODUCT NAME	CASCADE SHAKE	ROYAL SHAKE	PACIFIC SHAKE	ETERNIT ROOFING SLATES CONTINENTAL
3. 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				
F. NUMBER OF COLORS AVAILABLE	2	3	4	3
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	10 5/8 X 15 3/4
B. EXPOSURE (inches)	10	11 1/4	10	6 7/8 OR 6 7/8
C. HEADLAP (inches)	12	3	12	2 OR 4
D. PIECES PER ROOF SQUARE	144	100	144	197 OR 231
E. BUNDLES PER SQUARE	14 1/4	12 1/2	18	
F. WEIGHT PER ROOF SQUARE (ambient temp., pounds)	580	480	690	398 OR 467
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS, STAPLES	NAILS, STAPLES	NAILS, STAPLES	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	4:12	5:12
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	3:12
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT		TYPE-30 FELT	
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT		TYPE-30 FELT	2 30-LB. FELTS
10. RECOMMENDED DECKS				
A. TYPES				
1. SOLID SHEATHING	X	X	X	X
2. SPACED SHEATHING	X	X	X	X
B. MATERIAL				
1. PLYWOOD/WOOD	X	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X	
3. WAFFERBOARD	X	X	X	
4. OTHER (specify)				
11. YEAR PRODUCT FIRST SOLD	1989	1984	1995	1984
12. NUMBER OF SQUARES INSTALLED	650,000 ±	350,000 ±	5,500 ±	50,000 +
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	
14. FIRE/WIND RATINGS				
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)	CLASS A	CLASS A AND B	CLASS A	
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS A	CLASS A AND B	CLASS A	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	ICBO, METRO-DADE COUNTY
16A. FOR SALES INFORMATION, CONTACT:	B. KANNENBERG 800/367-3471	B. KANNENBERG 800/367-3471	B. KANNENBERG 800/367-3471	M. DAYAL 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.	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
ETERNIT ROOFING SLATES ENGLISH	SUPRA-SLATE	HERITAGE SLATE	WESTERN SHAKE	AMERICAN TRADITIONAL	HEXAGONAL	DUTCH LAP
X	X	X	X	X		
5	10	3	2	7	X 3	X 2
NO	NO	NO	NO	NO	NO	NO
NONASBESTOS FIBER-REINFORCED CEMENT	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES
YES	NO	YES	NO	NO		
11 13/16 X 23 5/8 10 13/16 OR 9 13/16	9.35 X 16 7 2	11.88 X 23.38 11 2	9.35 X 16 7 2	14 X 30 6 2	16 X 16 13 3	16 X 16 13 3
113 OR 124	220	112	220	80	88	92
384 OR 422 NAILS	10 500 NAILS	8 390 NAILS/STORM ANCHOR	10 500 NAILS	5 350 NAILS	4 257 NAILS/STORM ANCHOR	4 268 NAILS/STORM ANCHOR
YES	YES	NO	YES	YES	NO	YES
5:12	5:12 NA	5:12 NA	5:12 NA	5:12 NA	5:12 NA	5:12 NA
30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT
3:12	3:12 NA	3:12 NA	3:12 NA	3:12 NA	3:12 NA	3:12 NA
2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS	2 30-LB. FELTS
X X	X	X	X	X	X	X
X	X	X	X	X	X	X
1984	1976	1990	1976	1952	1976	1976
50,000 +	400,000+	4,000	20,000	160,000	16,000	16,000
250 +	500 + NO	500 + NO	500 + NO	500 + NO	500 + NO	500 + NO
CLASS A	CLASS A CLASS A	CLASS A CLASS A	CLASS A CLASS A	CLASS A CLASS A	CLASS B CLASS B	CLASS B CLASS B
ICBO, METRO-DADE COUNTY						
M. DAYAL 800/233-3155 B. NABHOLZ 800/233-3155	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948	SALES SERVICE 800/223-1948 SALES SERVICE 800/223-1948

# Fiber-Cement Roof Components

1. COMPANY NAME	JAMES HARDIE BUILDING PRODUCTS INC.	JAMES HARDIE BUILDING PRODUCTS INC.	MAXITILE, INC.	MAXITILE, INC.
2. PRODUCT NAME	HARDISHAKE ROOFING	HARDISLATE ROOFING	MAXITILE	MAXISLATE
3. STYLE				
A. SIMULATED SHINGLE (specific type if applicable)	X			
B. SIMULATED SHAKE (specific type if applicable)		X		X
C. SIMULATED SLATE (specific type if applicable)			X	
D. SIMULATED TILE (specific type if applicable)				
E. OTHER				
F. NUMBER OF COLORS AVAILABLE	3	4	6	2
4. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES	YES
5. MATERIAL COMPOSITION	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	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, 8, AND 6 X 22	8 X 18	37 X 24	12, 8, AND 6 X 22
B. EXPOSURE (inches)	10	8	30 X 20	10
C. HEADLAP (inches)	12	10	4	12
D. PIECES PER ROOF SQUARE			24	172
E. BUNDLES PER SQUARE				9.6
F. WEIGHT PER ROOF SQUARE (ambient temp., pounds)	400	400	340	380
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS ONLY	NAILS ONLY	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)	3:12	3:12	3:12	3:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC 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	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT		
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	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
3. WAFFERBOARD			X	X
4. OTHER (specify)			STEEL	STEEL
11. YEAR PRODUCT FIRST SOLD	1980	1995	1986	1992
12. NUMBER OF SQUARES INSTALLED	650,000 +	10,000 +	375,000	9,000
13. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)	100 +	100 +	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 AND B	CLASS A AND B
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS A AND B	CLASS A AND B	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	BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES	BOCA, ICBO, SBCCI, HUD, 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 800/9HARDIE	CUSTOMER SERVICE 800/9HARDIE	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE
16B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICE 714/348-1800	TECHNICAL SERVICE 714/348-1800	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 RUSTIC SHAKE	FIREFREE QUARRY SLATE	QUANTUM SHAKE PANEL	QUANTUM SLATE PANEL
X		X	X	X	X
	X				
4	2	3	3	3	3
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	NO	NO		
12, 8, AND 6 X 22	2, 84, AND 126 X 4	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
9.6	3.1, 4.75, AND 5.6	182	117	32	32
380	275	14.5	14.5	8	8
NAILS	SCREWS & WASHERS	475	475	325	325
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
CLASS A FIRE RATING: TYPE-40 ORGANIC FELT	CLASS A FIRE RATING: TYPE-90 ORGANIC FELT	3:12 TYPE-30 FELT "SHAKELINER" TYPE-30 FELT	3:12 TYPE-30 FELT "SHAKELINER" TYPE-30 FELT		
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
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 90	CLASS A AND B CLASS A AND B CLASS 90	CLASS A CLASS A	CLASS A CLASS A	CLASS A CLASS A	CLASS A CLASS A
ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO	ICBO, CITY OF LOS ANGELES	ICBO, CITY OF LOS ANGELES	ICBO	ICBO
T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	G. BECK 800/347-3373	G. BECK 800/347-3373	G. BECK 800/347-3373	G. BECK 800/347-3373
T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	800/347-3373	800/347-3373	800/347-3373	800/347-3373
X	X				



# CLAY AND CONCRETE TILE

# Clay Tile

1. COMPANY NAME	CELADON	DANIEL PLATT LTD.	DANIEL PLATT LTD.
2. PRODUCT NAME	CELADON CERAMIC SLATE	TRITON	TRITON
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 SLATE NATURAL CERAMIC GLAZE 5 NATIONAL NO NO	SMOOTH NATURAL CERAMIC GLAZE 4 NATIONAL YES YES	SMOOTH AND RUSTIC NATURAL CERAMIC GLAZE 4 NATIONAL YES YES
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)	16 X 10 7/8 13 1/4 X 10 7/8 108 580	10 1/2 X 6 1/2 4 1/2 X 6 1/2 550 1,550	13 X 7 6 X 7 350 1,300
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 WINTERGUARD, 40-LB. FELT, OR 2 30-LB. FELTS  3:12 WINTERGUARD OR EQUIVALENT	8:12 30-LB. FELT	8:12 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/NAIABLE CONCRETE  G. OTHER (specify)	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 SPRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SCREWS RING SHANK NAILS RING SHANK NAILS RING SHANK NAILS	STAINLESS STEEL SCREWS RING SHANK NAILS RING SHANK NAILS RING SHANK NAILS
9. YEAR PRODUCT FIRST SOLD	1995	BEFORE 1893	1992
10. NUMBER OF SQUARES INSTALLED			
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	YES	35	35
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	ICBO (4872), UBC, METRO-DADE COUNTY, FL		
14A. FOR SALES INFORMATION, CONTACT:	800/CELSLATE	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/CELSLATE	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035
15. SEE APPENDIX IF CHECKED	X		

NA=not applicable



# Clay Tile

GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN		GLADDING MCBEAN	
LINCOLN S-TILE		SPANISH S-TILE		CORDOVA		CORDOVA TAPERED CUSTOM		LINCOLN INTERLOCKING		LINCOLN GLAZED SHINGLE	
X		X		X		X		X		X	
SMOOTH		SMOOTH		SMOOTH		TEXTURED		SMOOTH		SMOOTH	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
2 NATIONAL NO YES	CUSTOM NATIONAL NO YES	1 NATIONAL YES YES	CUSTOM NATIONAL YES YES	3 NATIONAL YES YES	CUSTOM NATIONAL YES YES	3	CUSTOM NATIONAL YES YES	2 NATIONAL YES YES	CUSTOM NATIONAL YES YES	CUSTOM NATIONAL NO YES	CUSTOM NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
13 1/4 X 20 13 1/4 X 17 81 975		11 1/4 X 18 11 1/4 X 15 107 900		8 x 18 8 x 14 190 900		VARIED VARIED X 14 VARIED VARIED		10 X 14 9 X 11 145 950		11 1/2 X 15 10 3/4 X 12 114 850	
3:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT	
2:12 2 30-LB FELTS NAILED AND SOLID MOPPED		3:12 2 30-LB FELTS NAILED AND SOLID MOPPED		3:12 2 30-LB FELTS NAILED AND SOLID MOPPED		3:12 30-LB FELT NAILED AND SOLID MOPPED		3:12 2 30-LB FELTS NAILED AND SOLID MOPPED		3:12 2 30-LB FELTS NAILED AND SOLID MOPPED	
STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA NA TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA NA TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA NA TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA NA TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA NA TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS	
1875		1875		1875		1875		1875		1875	
50		50		50		50		50		50	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4642)		ICBO (4642)		ICBO (4642)		ICBO (4642)		ICBO (4642)		ICBO (4642)	
800/964-2529		800/964-2529		800/964-2529		800/964-2529		800/964-2529		800/964-2529	
800/964-2529		800/964-2529		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	ITALIAN PAN AND ITALIAN COVERS	BERKELEY PAN AND BERKELEY COVER	ITALIAN PAN AND BERKELEY 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	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)	SMOOTH NATURAL CERAMIC GLAZE 2 NATIONAL CUSTOM NATIONAL YES YES YES YES	SMOOTH NATURAL CERAMIC GLAZE 2 NATIONAL CUSTOM NATIONAL YES YES YES YES	SMOOTH NATURAL CERAMIC GLAZE 2 NATIONAL CUSTOM NATIONAL YES YES YES YES
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)	12 X 18 12 X 14 108 1,040	8 1/2 X 18 11 X 14 187 1,400	8 1/2 X 18 12 X 18 15 X 14 138 1,200
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- OR 40-LB FELT  3:12 2 30-LB FELTS NAILED AND SOLID MOPPED	4:12 30- OR 40-LB FELT  3:12 2 30-LB FELTS NAILED AND SOLID MOPPED	4:12 30- OR 40-LB FELT  3:12 2 30-LB FELTS NAILED AND SOLID MOPPED
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 FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA  NA  TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS	STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA  NA  TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS	STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA  NA  TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS
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)	50	50	50
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	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		HEISTERHOLZ		HEISTERHOLZ		HEISTERHOLZ	
ITALIAN PAN AND CORDOVA COVER		BERKELEY PAN AND CORDOVA COVER		COTSWOLD		K21		HANSEAT 35		K 2000	
X				X		X		X		X	
SMOOTH		SMOOTH		TEXTURED							
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
2 NATIONAL YES YES	CUSTOM NATIONAL YES YES	2 NATIONAL YES YES	CUSTOM NATIONAL YES YES	3 NATIONAL YES YES	CUSTOM NATIONAL YES YES	6 NATIONAL NO NO	4 NATIONAL NO NO	6 NATIONAL NO NO	4 NATIONAL NO NO	6 NATIONAL NO NO	CERAMIC GLAZE
YES		YES		YES		YES		YES		YES	
12 X 18	8 X 18	8 1/2 X 18	8 X 18	1/2, 7 1/4, 8 1/2, & 9 X	6-10	17 X 10	17 X 10	17 X 10	17 X 10	17 X 10	17 X 10
14 1/2 X 14		10 3/4 X 14		308-185		14 X 9	14 X 9	14 X 9	14 X 9	14 X 9	14 X 9
142		192		1,510-907		143	142	142	142	142	142
1,080		1,250				975	1,036	1,036	1,036	1,095	1,095
4:12		4:12				4.5:12		4.5:12		4.5:12	
30- OR 40-LB FELT		30- OR 40-LB FELT				40-LB FELT		40-LB FELT		40-LB FELT	
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							
STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		STAINLESS STEEL FASTENING SYSTEM		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
NA		NA		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
NA		NA		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
1875		1875		1875		1873		1873		1873	
						MILLIONS		MILLIONS		MILLIONS	
50		50		50		1		1		1	
						1		1		1	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4642)		ICBO (NO. 4642)				ICBO (5167), LOS ANGELES COUNTY		ICBO (5167), LOS ANGELES COUNTY		ICBO (5167), LOS ANGELES COUNTY	
800/964-2529		800/964-2529		800/964-2529		HG ROOFING 219/784-2006		HG ROOFING 219/784-2006		HG ROOFING 219/784-2006	
800/964-2529		800/964-2529		800/964-2529		HG ROOFING 219/784-2006		HG ROOFING 219/784-2006		HG ROOFING 219/784-2006	

# Clay Tile

1. COMPANY NAME	HUEGUENOT FENAL	HUEGUENOT FENAL	INTERCLAY CORPORATION
2. PRODUCT NAME	VALOISE	GERMOISE	ALTUSA S
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)	SMOOTH NATURAL 8 NATIONAL YES YES	RUSTIC NATURAL 1 NATIONAL YES YES	NATURAL 5 3 NO NO CERAMIC GLAZE
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	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)	12 1/2 X 8 1/2 10 1/2 X 7 1/2 190 950	12 1/2 X 8 1/2 10 1/2 X 7 1/2 190 950	18 1/2 X 10 1/2 15 1/2 X 9 1/2 100 700
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	4:12 30-LB FELT	4:12 30- OR 40-LB FELT 3:12 2 30-LB FELTS NAILED AND SOLID MOPPED
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 NAILS AND CLIP RING SHANK NAILS AND CLIP STAINLESS STEEL SCREWS AND CLIPS	STAINLESS STEEL SCREWS RING SHANK NAILS AND CLIP RING SHANK NAILS AND CLIP STAINLESS STEEL SCREWS AND CLIPS	STAINLESS STEEL SCREWS RING SHANK NAIL AND HURRICANE SPIKE
9. YEAR PRODUCT FIRST SOLD	1982	1981	1986
10. NUMBER OF SQUARES INSTALLED	880,000	105,000	435,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	35	35	60
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	X X
13. ACCEPTED BY THE FOLLOWING CODES			METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035	305/471-5831
14B. FOR TECHNICAL INFORMATION, CONTACT:	S. MATTHEWS 905/627-4035	S. MATTHEWS 905/627-4035	305/471-5831
15. SEE APPENDIX IF CHECKED			

NA=not applicable

# Clay Tile

INTERCLAY CORPORATION		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.	
BARREL		SPANISH		LANAI		CLASSIC		AMERICANA		WILLIAMSBURG	
X		X		X		X		X		X	
		SMOOTH/SANDED		SANDED		SMOOTH		TREE BARK/SANDED		HAND-SPLIT SHAKE/SANDED	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
5 3 NO NO		1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	12 NATIONAL YES YES	1 NATIONAL NO YES	12 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
18 1/2 X 10 1/2 15 150 800		13 1/4 X 9 3/4 10 1/4 X 8 1/4 171 900		14 X 9 11 X 8 1/4 158 800		14 X 9 11 X 8 1/4 158 800		14 X 9 11 X 8 1/4 158 800		14 X 9 11 X 8 1/4 158 800	
4:12 30- OR 40-LB FELT		4:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT	
3:12 2 30-LB FELTS NAILED AND SOLID MOPPED		< 4:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING	
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 NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH- SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH- SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH- SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH- SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	
1988		1900		1948		1948		1948		1925	
435,000		> 500,000		> 500,000		> 500,000		> 500,000		> 500,000	
60		10 58		10 58		10 58		10 58		10 58	
X		X		X		X		X		X	
X		X		X		X		X		X	
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	
305/471-5831		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
305/471-5831		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	FRENCH	IMPERIAL	NORMAN
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)	DEEP FLUTED/SANDED NATURAL 1 NATIONAL NO YES	SMOOTH/SANDED NATURAL 1 NATIONAL NO YES	WEATHERED/CRATERED NATURAL 0 NATIONAL NO YES
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)	16 1/4 X 9 13 3/8 X 8 1/8 133 935	15 X 10 12 X 9 1/4 129 800	15 X 7 6 1/2 X 7 317 1,600
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 40-LB FELT  < 3:12 WINTERGUARD OR BUILT-UP ROOFING	3:12 40-LB FELT  < 3:12 WINTERGUARD OR BUILT-UP ROOFING	5:12 40-LB FELT  < 5:12 WINTERGUARD OR BUILT-UP ROOFING
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/NAIABLE CONCRETE  G. OTHER (specify)	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA
9. YEAR PRODUCT FIRST SOLD	1890	1980	1920
10. NUMBER OF SQUARES INSTALLED	> 500,000	> 5,000	> 100,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	10 58	10 58	10 58
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	X     X   X
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		JAMESTOWN		CLOSED SHINGLE		TILESTONE		EARLY AMERICAN OLD TYPE	
X		X		X		X		X		X	
FINE-MACHINE SCORED/SANDED		FINE MACHINE SCORED		HAND-SPLIT SHAKE		SMOOTH/SANDED		STONE		TREE BARK/SANDED	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
16 X 8 13 X 5 3/4 192 1,115		16 X 7 TAPERS TO 4 3/4 13 X 7 200 1,230		11 X 8 3/4 8 X 8 225 900		11 X 8 3/4 8 X 8 225 900		11 X 8 3/4 8 X 8 225 900		13 3/4 X 8 5/8 10 3/4 X 7 7/8 173 762	
5:12 40-LB FELT		5:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT		3:12 40-LB FELT	
< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 3:12 WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	
1900 > 500,000		1900 > 500,000		1910 > 250,000		1900 > 250,000		1900 > 10,000		1900 > 250,000	
10 58		10 58		10 58		10 58		10 58		10 58	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 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	LIGHT WEIGHT INTERLOCKING	DESIGNER	CONOSERA
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)	SMOOTH OR SANDED NATURAL 1 NATIONAL NO YES	HAND-SPLIT SHAKE/SANDED CERAMIC GLAZE 17 NATIONAL YES YES	SMOOTH/SANDED NATURAL 1 NATIONAL NO YES
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)	13 3/4 X 8 5/8 10 3/4 X 7 7/8 173 762	14 X 9 11 X 8 1/4 158 800	13 X 8 3/4 10 3/4 X 7 3/4 173 1,350
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 40-LB FELT  < 3:12 WINTERGUARD OR BUILT-UP ROOFING	3:12 40-LB FELT  < 3:12 WINTERGUARD OR BUILT-UP ROOFING	3:12 40-LB FELT  < 3:12 WINTERGUARD OR BUILT-UP ROOFING
8. DECKS AND FASTENING RECOMMENDATIONS (Fastening system in normal application or NA) A. METAL  B. PLYWOOD  C. WOOD PLANK  D. ORIENTED-STRAND BOARD  E. WAFERBOARD  F. GYPSUM/MAILABLE CONCRETE  G. OTHER (specify)	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA
9. YEAR PRODUCT FIRST SOLD	1900	1910	1880
10. NUMBER OF SQUARES INSTALLED	> 100,000	> 100,000	> 10,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	10 58	10 58	10 58
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	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.	
COFFEYVILLE ENGLISH		PROVINCIAL		GEORGIAN		ANTIQUE		BRITTANY		FLAT SLAB SHINGLE	
X		X		X		X		X		X	
SMOOTH		FINE MACHINE SCORED/SANDED		HAND SPLIT SHAKE/SANDED		HAND TREATED IRREGULAR		SANDED AND INDENTED		SMOOTH/SANDED	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES	1 NATIONAL NO YES	3 NATIONAL YES YES	1 NATIONAL NO YES	3 NATIONAL YES YES	1 NATIONAL NO YES	17 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
13 1/4 X 8 3/4 10 1/8 X 7 3/4 182 810		15 X 7 6 1/2 X 7 317 1,600		15 X 8 6 1/2 X 8 276 1,475		12 X 7 5 X 7 412 1,600		12 X 7 5 X 7 412 1,840		12 X 6 5 X 6 480 1,225	
3:12 40-LB FELT		5:12 40-LB FELT		5:12 40-LB FELT		5:12 40-LB FELT		5:12 40-LB FELT		5:12 40-LB FELT	
< 3:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING		< 5:12 WINTERGUARD OR BUILT-UP ROOFING	
STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA		STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	
1920 > 50,000		1920 > 50,000		1900 > 20,000		1900 > 5,000		1900 > 50,000		1900 > 5,000	
10 58		10 58		10 58		10 58		10 58		10 58	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453		ICBO (4872), UBC, METRO-DADE COUNTY, FL 800/945-8453 800/945-8453	
X		X		X		X		X		X	

# Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	M.C.A CLAY TILE	M.C.A CLAY TILE
2. PRODUCT NAME	CALAIS	ONE-PIECE "S"	STRAIGHT BARREL 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	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)	CRATERED/SANDED NATURAL GLAZE 1 NATIONAL NO YES 17 CERAMIC YES YES	SMOOTH NATURAL YES 15 CERAMIC YES 12 CERAMIC YES YES	SMOOTH NATURAL YES 15 CERAMIC YES CUSTOM NATIONAL YES YES
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)	15 X 7 6 1/2 X 7 317 1,600	19 X 14 16 X 12 75 788	19 X 10 16 X 13.5 134 1,005
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	5:12 40-LB FELT  < 5:12 WINTERGUARD OR BUILT-UP ROOFING	3:12 30-LB FELT  < 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS	3:12 30-LB FELT  < 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS
8. DECKS AND FASTENING RECOMMENDATIONS (Fastening system in normal application or NA) A. METAL B. PLYWOOD C. WOOD PLANK D. ORIENTED-STRAND BOARD E. WAFERBOARD F. GYPSUM/NAIABLE CONCRETE G. OTHER (specify)	STAINLESS STEEL SHEET METAL SCREWS 11-GAUGE RING SHANK COPPER NAILS 11-GAUGE SMOOTH-SHANK COPPER NAILS NA NA SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	SCREW NAILS RING SHANK NAILS SMOOTH SHANK NAILS NA RING SHANK NAILS SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	SCREW NAILS RING SHANK NAILS SMOOTH SHANK NAILS NA RING SHANK NAILS SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA
9. YEAR PRODUCT FIRST SOLD	1993	1985	1985
10. NUMBER OF SQUARES INSTALLED	< 5,000	500,000	500,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	10 58	240 NO	240 NO
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-94a 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	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4202), LOS ANGELES COUNTY, METRO-DADE COUNTY, FL	ICBO (4202), LOS ANGELES COUNTY
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	909/736-9590	909/736-9590
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	909/736-9590	909/736-9590
15. SEE APPENDIX IF CHECKED	X		

NA=not applicable

# Clay Tile

M.C.A CLAY TILE		M.C.A CLAY TILE		M.C.A CLAY TILE		M.C.A CLAY TILE		SANDTOFT ROOF TILES		SANDTOFT ROOF TILES	
CLASSIC TAPERED MISSION		ORIENTAL		RT-50 FLAT		TURRET TILE		COUNTY PAN TILE		GOXHILL HANDMADE	
X				X				X		X	
SMOOTH						SMOOTH		SMOOTH		RUSTIC	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
15 NATIONAL YES YES	CUSTOM NATIONAL YES YES	1 NATIONAL YES NO	10 NATIONAL YES NO	1 NATIONAL YES NO	10 NATIONAL YES NO	15 NATIONAL YES YES	CUSTOM NATIONAL YES YES	7 NATIONAL NO NO		3 NATIONAL YES NO	
YES		YES		YES		YES		YES		YES	
19 X 7 1/4 TAPERS TO 6 1/4		12 X 12		11 1/2 X 13				14 3/4 X 10 3/4		10 1/2 X 6 1/2	
16 X 10		10 1/2 X 9 1/2		8 1/2 X 12				12 X 9		4 1/2 X 6 1/2	
180		144		141				135		492	
900		864		1,128				850		1,250	
3:12 30-LB FELT		3:12 30-LB FELT		3:12 30-LB FELT		3:12 2 30-LB FELTS MOPPED		4:12 30-LB FELT		8:12 30-LB FELT	
< 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS		< 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS		< 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS		< 3:12 MODIFIED BITUMEN BASE SHEET					
SCREW NAILS		SCREW NAILS		SCREW NAILS		SCREW NAILS		STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS AND CLIPS	
RING SHANK NAILS		RING SHANK NAILS		RING SHANK NAILS		RING SHANK NAILS		RING SHANK AND CLIPS		RING SHANK AND CLIPS	
SMOOTH SHANK NAILS		SMOOTH SHANK NAILS		SMOOTH SHANK NAILS		SMOOTH SHANK NAILS		RING SHANK			
NA		NA		NA		NA					
RING SHANK NAILS		RING SHANK NAILS		RING SHANK NAILS		RING SHANK NAILS					
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		STAINLESS STEEL/SILICON BRONZE SCREW SHANK NAILS		RING SHANK			
NA		NA		NA		NA					
1985		1902		1984		1993		1981		1981	
< 10,000		> 1 MILLION		100,000				450,000		26,000	
240 NO		170 NO		170 NO		240 NO		35		35	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4202), LOS ANGELES COUNTY		ICBO (4202), LOS ANGELES COUNTY		UBC							
909/736-9590		909/736-9590		909/736-9590		909/736-9590		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035	
909/736-9590		909/736-9590		909/736-9590		909/736-9590		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035	
		X				X					

# Clay Tile

1. COMPANY NAME	U.S. TILE CO.	U.S. TILE CO.	U.S. TILE CO.
2. PRODUCT NAME	"S" TILE	CLAYLITE LIGHTWEIGHT "S" TILE	CLAY MAX TWIN-S
3. TILE TYPE	X		X
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			
4. TILE DESCRIPTION	SMOOTH AND RUSTIC	SMOOTH	SMOOTH AND RUSTIC
A. TEXTURE (specify or NA) B. FINISHES	NATURAL 17 REGIONAL YES NO	CERAMIC GLAZE 6 REGIONAL NO NO	NATURAL 6 NATIONAL YES NO
1. NUMBER OF COLORS AVAILABLE 2. COLOR AVAILABILITY (regional/national) 3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no) 4. CUSTOM SHAPES AVAILABLE (yes/no)			
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE	13 X 18 11 X 15 88 800	13 X 18 11 X 15 88 595	13 X 15 12 X 15 88 580
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT
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 BUILT-UP ROOF	<3:12 BUILT-UP ROOF	<3:12 BUILT-UP ROOF
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA)	TILE TIE SYSTEM	TILE TIE SYSTEM	TILE TIE SYSTEM
A. METAL B. PLYWOOD C. WOOD PLANK D. ORIENTED-STRAND BOARD E. WAFERBOARD F. GYPSUM/NAIABLE CONCRETE G. OTHER (specify)	NAILS NAILS NAILS NAILS NAILS TILE TIE SYSTEM	NAILS NAILS NAILS NAILS NAILS TILE TIE SYSTEM	NAILS NAILS NAILS NAILS NAILS TILE TIE SYSTEM
9. YEAR PRODUCT FIRST SOLD	1974	1993	1995
10. NUMBER OF SQUARES INSTALLED	3.4 MILLION	50,000	600,000
11. DISTRIBUTION	170 NO	170 NO	170 NO
A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
12. TECHNICAL INFORMATION	X	X	X
COMPLIES WITH ASTM STANDARD C1167-94a 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
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (3523)	ICBO (3523)	ICBO (3523)
14A. FOR SALES INFORMATION, CONTACT:	909/737-0200	909/737-0200	909/737-0200
14B. FOR TECHNICAL INFORMATION, CONTACT:	909/737-0200	909/737-0200	909/737-0200
15. SEE APPENDIX IF CHECKED			

NA=not applicable

# Clay Tile

U.S. TILE CO.

TAPERED MISSION TILE

X

SMOOTH AND RUSTIC

NATURAL

CERAMIC  
GLAZE

17  
REGIONAL  
YES  
YES

REGIONAL  
NO  
NO

YES

8 X 18

8 X 15

172

1,000

3:12

TYPE-30 FELT

<3:12

BUILT-UP ROOF

TILE TIE SYSTEM

NAILS

NAILS

NAILS

NAILS

TILE TIE SYSTEM

1974

1.6 MILLION

170

NO

X

X

ICBO (3523)

909/737-0200

909/737-0200

TILE

# Concrete Tile

1. COMPANY NAME	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.
2. PRODUCT NAME	LIFETILE GOLD RUSH SERIES ESPAÑA MISSION	LIFETILE 100 SERIES ESPAÑA MISSION	LIFETILE COLONIAL SLATE	LIFETILE CHATEAU
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 SURFACE  NATIONAL YES	NO SURFACE  NATIONAL YES	NO SURFACE  NATIONAL YES	YES 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)	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 89 900	17 X 12 3/8 3 14 93.5 950
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	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. WAFFERBOARD 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 AND > 7:12 NA 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X  X X  < 3:12 AND > 7:12 NA 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X  X X  < 3:12 AND > 7:12 NA 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER 3:12 AND ABOVE	X  X X  < 3:12 AND > 7:12 NA 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:	B. SESULKA 909/822-4407	B. SESULKA 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				

NA=not applicable

# Concrete Tile

LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.
LIFETILE SUPERSHAKE	LIFETILE CLASSIC CAPRI	LIFETILE SIERRA SHAKE	LIFETILE BLENDED MISSION	LIFETILE BLENDED SHINGLE	LIFETILE SANTA FE MISSION	LIFETILE SANTA FE SHINGLE
	X		X	X	X	X
X		X				
YES THROUGH-COLOR	NO THROUGH-COLOR	YES THROUGH-COLOR	NO THROUGH-COLOR	YES THROUGH-COLOR	NO THROUGH-COLOR	YES THROUGH-COLOR
NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES
17 X 12 3/8 3 14 93.5 950	17 X 12 3/8 3 14 93.5 950	17 X 12 3/8 3 14 93.5 950	17 X 12 3/8 3 14 93.5 950	17 X 12 3/8 3 14 93.5 950	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890
3:12 30-LB FELT	3:12 30-LB FELT	3:12 30-LB FELT	3:12 30-LB FELT	3:12 30-LB FELT	3:12 30-LB FELT	3:12 30-LB FELT
< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 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 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 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 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	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	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.
2. PRODUCT NAME	LIFETILE CLASSIC MISSION	LIFETILE TAOS MISSION	LIFETILE TAOS SHINGLE	LIFETILE COUNTRY 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  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 93.5 1,035
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   < 3:12 AND > 7:12 NA  3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER  3:12 AND ABOVE	X  X X   < 3:12 AND > 7:12 NA  3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER  3:12 AND ABOVE	X  X X   < 3:12 AND > 7:12 NA  3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER  3:12 AND ABOVE	X  X X   < 3:12 AND > 7:12 NA  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:	B. SESULKA 909/822-4407	B. SESULKA 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				

NA=not applicable



# Concrete Tile

LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.	LIFETILE CORP.
LIFETILE COUNTRY SHINGLE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE
X	X	X	X	X	X	X
THROUGH-COLOR	NO SURFACE	NO SURFACE	NO SURFACE	NO THROUGH-COLOR	NO THROUGH-COLOR	NO THROUGH-COLOR
NATIONAL YES	REGIONAL NO	REGIONAL NO	REGIONAL NO	REGIONAL NO	REGIONAL NO	REGIONAL NO
YES	YES	YES	YES	YES	YES	YES
17 X 12 3/8 3 14 93.5 1,035	17 X 12 3/8 3 14 89 595	17 X 12 3/8 3 14 93.5 595	17 X 12 3/8 3 14 94 650	17 X 12 3/8 3 14 89 595	17 X 12 3/8 3 14 93.5 595	17 X 12 3/8 3 14 94 650
3:12 30-LB FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT	3:12 TYPE-30 FELT
< 3:12 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	< 3:12 TYPE-15 FELTS HO 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 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER	3:12 TO 5:12 > 5:12 TO 12:12 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	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	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438	P. SULLIVAN 909/822-4407 J. VANDEWATER 909/428-4438
			X			X

# Concrete Tile

1. COMPANY NAME	LIFETILE CORP.	LIFETILE CORP.	MONIER INC.	MONIER INC.
2. PRODUCT NAME	COUNTRY SPLIT-SHINGLE	COUNTRY SPLIT-SHAKE	MISSION "S"	MISSION "S" DESERT
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)	THROUGH-COLOR  NATIONAL	THROUGH-COLOR  NATIONAL	NO SURFACE 60 NATIONAL YES	NO THROUGH-COLOR 30 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)	17 X 12 3/8 3 14 93.5 1,035	17 X 12 3/8 3 14 93.5 1,035	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 TYPE-30 FELT  < 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	3:12 TYPE-30 FELT  < 3:12 TYPE-15 FELTS HO MOPPED, VERTICAL COUNTER BATTENS	3:12 30-OR 40-LB FELT  < 3:12 2 30-LB FELTS NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  < 3:12 2 30-LB FELTS 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. WAFFERBOARD 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  3:12 AND ABOVE	X  X X       3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER  3:12 AND ABOVE	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			1982	1982
10. NUMBER OF SQUARES INSTALLED			> 3 MILLION	> 1 MILLION
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	150 NO	150 NO	8	8
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2656), SBCCI, BOCA	ICBO (2656), SBCCI, BOCA	ICBO, SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY
13A. FOR SALES INFORMATION, CONTACT:	B. SESULKA 909/822-4407	B. SESULKA 909/822-4407	D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438	D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605
14. SEE APPENDIX IF CHECKED				

NA=not applicable

# Concrete Tile

MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.
VILLA	VILLA	PREMIUM DURALITE VILLA	SHAKE	SHAKE	PREMIUM DURALITE SHAKE	CLASSIC 100
X	X	X				
			X	X	X	X
NO SURFACE 30 NATIONAL YES YES	NO THROUGH-COLOR 18 NATIONAL YES YES	NO THROUGH-COLOR 6 NATIONAL YES YES	YES SURFACE 12 NATIONAL YES YES	YES THROUGH-COLOR 15 NATIONAL YES YES	YES THROUGH-COLOR 3 NATIONAL YES YES	NO SURFACE 8 NATIONAL NO YES
16 1/2 X 13 3 13 1/2 90 800	16 1/2 X 13 3 13 1/2 90 800	16 1/2 X 13 3 13 1/2 90 540	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 90 740	16 1/2 X 13 3 13 1/2 90 900
3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT
< 3:12 2 30-LB FELTS NAILED, SOLID MOPPED	< 3:12 2 30-LB FELTS NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 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 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA
3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	ALL	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER
ALL	ALL	ALL	ALL	ALL	ALL	ALL
1968	1968					
> 2 MILLION	> 1 MILLION	> 400,000	> 2,000,000	> 2,000,000	> 200,000	> 200,000
10	10	2	10	10	2	1
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	ICBO (2093)	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 INC.	MONIER INC.	MONIER INC.	MONIER INC.
2. PRODUCT NAME	CLASSIC 100	SLATE	ROMA	ROMA
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
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 6 NATIONAL NO	NO SURFACE 5 NATIONAL YES	NO SURFACE 12 NATIONAL YES	NO THROUGH-COLOR 15 NATIONAL NO
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 90 900	16 1/2 X 13 3 13 1/2 90 900	16 1/2 X 13 3 13 1/2 90 800	16 1/2 X 13 3 13 1/2 90 800
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  < 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  < 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  < 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	3:12 30-OR 40-LB FELT  < 3:12 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  NA 3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER ALL	X  X X  NA 3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER ALL	X  X X  NA 3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER ALL	X  X X  NA 3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER ALL
9. YEAR PRODUCT FIRST SOLD			1965	1985
10. NUMBER OF SQUARES INSTALLED	> 200,000	> 500,000	> 200,000	400,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	1	10	3	3
12. ACCEPTED BY THE FOLLOWING CODES	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093)	ICBO (2093)
13A. FOR SALES INFORMATION, CONTACT:	D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605
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
14. SEE APPENDIX IF CHECKED				

NA=not applicable

# Concrete Tile

MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.
SLATE	HOMESTEAD	HOMESTEAD	SPLIT SHAKE	VANGUARD ROLL	VANGUARD FLAT	VANGUARD FLAT
X	X	X	X	X	X	X
NO THROUGH-COLOR 5 NATIONAL NO YES	YES SURFACE 12 NATIONAL YES YES	YES THROUGH-COLOR 36 NATIONAL YES YES	YES THROUGH-COLOR 5 NATIONAL YES YES	YES THROUGH-COLOR 17 REGIONAL YES YES	YES THROUGH-COLOR 10 REGIONAL NO YES	NO THROUGH-COLOR 10 REGIONAL NO YES
16 1/2 X 13 3 13 1/2 90 800	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	16 1/2 X 13 3 14 90 810	16 1/2 X 13 990	16 1/2 X 13 990
3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 30-OR 40-LB FELT	3:12 43-LB BASE SHEET	3:12 43-LB BASE SHEET	3:12 43-LB BASE SHEET
< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	< 3:12 30-LB FELT + 90-LB FELT, NAILED, SOLID MOPPED	2:12 30-LB FELT + 90-LB FELT, HOT MOPPED	2:12 30-LB FELT + 90-LB FELT, HOT MOPPED	2:12 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
< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	< 3:12 & > 7:12 NA	> 7:12 NA	> 7:12	> 7:12
3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	3:12 TO > 5:12 5:12 TO 12:12 12:12 AND OVER	ALL	ALL	ALL
ALL	ALL	ALL	ALL	ALL	ALL	ALL
1972	1978	1978	1980	1988	1988	1988
800,000	> 1.5 MILLION	> 1.5 MILLION	> 100,000	50,000	15,000	15,000
10	10	10	3	4	4	4
ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, ETRO-DADE COUNT	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY	SBCCI, 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. 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



# Concrete Tile

1. COMPANY NAME	MONIER INC.	MONIER INC.	MONIER INC.	MONIER INC.
2. PRODUCT NAME	BERMUDA FLAT	BERMUDA FLAT	BARREL	BARREL
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 50 REGIONAL YES	YES SURFACE 1 REGIONAL YES	YES THROUGH-COLOR 20 REGIONAL YES	NO THROUGH-COLOR 20 REGIONAL
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. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	16 X 9 2 14 120 960	16 X 9 2 14 120 960	18 X 9 2 1/2 15 1/2 140 1,050	18 X 19 2 1/2 15 1/2 140 1,050
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 + 90-LB FELT, HOT MOPPED 2:12 30-LB FELT + 90-LB FELT, HOT MOPPED	3:12 30-LB FELT + 90-LB FELT, HOT MOPPED 2:12 30-LB FELT + 90-LB FELT, HOT MOPPED	3:12 30-LB FELT + 90-LB FELT, HOT MOPPED 2:12 30-LB FELT + 90-LB FELT, ALL HOT MOPPED	3:12 30-LB FELT + 90-LB FELT, HOT MOPPED 2:12 30-LB FELT + 90-LB FELT, ALL HOT 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. WAFFERBOARD 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 NA NA	X X X X NA NA	X X X X NA NA	X X X X NA NA
9. YEAR PRODUCT FIRST SOLD	1958	1958	1958	1958
10. NUMBER OF SQUARES INSTALLED	> 3 MILLION	> 1 MILLION	> 1 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: 13B. FOR TECHNICAL INFORMATION, CONTACT:	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
14. SEE APPENDIX IF CHECKED	X	X	X	X

NA=not applicable

# Concrete Tile

MONIER INC.	MONIER INC.	MONIER INC.	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED
SPANISH "S"	SPANISH "S"	CEDARLITE	MARLEY CLASSIC TILE	MARLEY CONTEMPRA TILE	MARLEY CASTILLE TILE	MARLEY SHAKE TILE
X	X	X	X	X	X	X
NO THROUGH-COLOR 50 REGIONAL YES YES	YES THROUGH-COLOR 50 REGIONAL YES YES	YES THROUGH-COLOR 4 NATIONAL YES YES	NO THROUGH 8 NATIONAL YES YES	NO THROUGH 7 NATIONAL YES YES	NO THROUGH 3 NATIONAL YES YES	YES THROUGH 3 NATIONAL YES YES
16 X 9 2 1/2 13 1/2 105 890	16 X 9 2 1/2 13 1/2 105 890	13 1/2 X 13 1/2 3 10 120 < 600	13 16 1/4 3 12 X 13 1/4 96 1,000	13 16 1/4 3 12 X 13 1/4 96 1,000	13 16 1/4 3 12 X 13 1/4 96 1,000	13 16 1/4 3 12 X 13 1/4 96 1,000
3:12 43-LB BASE SHEET	3:12 43-LB BASE SHEET	3:12 30-LB FELT	4:12 TYPAR 30	4:12 TYPAR 30	4:12 TYPAR 30	4:12 TYPAR 30
2:12 30-LB FELT + 90-LB FELT, ALL HOT MOPPED	2:12 30-LB FELT + 90-LB FELT, ALL HOT MOPPED	< 3:12 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	NA NA	ALL NA	ALL NA	ALL NA	ALL NA
ALL	ALL	NA	7:12-11:12 12:12 +	7:12-11:12 12:12 +	7:12-11:12 12:12 +	7:12-11:12 12:12 +
ALL 1965 > 1 MILLION	ALL 1965 > 1 MILLION	ALL 1995 150,000	NA NA NA 1920	NA NA NA 1920	NA NA NA 1988	NA NA NA 1988
4	4	200 NO	30 NO	30 NO	30 NO	30 NO
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	M. SUZANSKI 714/756-1605 D. HUISKEN 714/756-1605	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094 X	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094 X	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094 X	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094 X

三

NA=not applicable



# METAL ROOF COMPONENTS

# Metal Roof Components

1. COMPANY NAME		AEP-SPAN		AEP-SPAN	
2. PRODUCT NAME		SNAP-SEAM (SN)		STRUCTURAL BATTEN SEAM SN (SBS)	
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		STRUCTURAL BATTEN	
A. PANEL [width (in.), maximum length (ft.)]		10, 12, 18, 24 X 45		10, 12, 18, 24 X 45	
B. INDIVIDUAL (dimensions: inches x inches)					
3.3 MATERIALS, THICKNESSES, AND FINISHES		THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)					
STAINLESS STEEL (ga.)					
GALVALUME (ga.)		22, 24	KYNAR	22, 24	KYNAR
ALUMINIZED STEEL (ga.)					
ALUMINUM (in.)		0.032	KYNAR	0.032	KYNAR
COPPER (oz.)		16, 20		16, 20	
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.)		1 1/2:12		1.5:12	
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)					
B. CLIP (exposed or concealed, specify)					
		1 3/4	F	2	F
		CONCEALED	CONCEALED	CONCEALED	CONCEALED
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		1985		1985	
B. NUMBER OF SQUARES INSTALLED					
C. METHOD OF DISTRIBUTION (distributors, direct)		DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS		40		40	
E. LICENSED APPLICATOR AGREEMENT (yes/no)		YES		YES	
FOR SALES INFORMATION, CONTACT:		J. SMITH		J. SMITH	
FOR TECHNICAL INFORMATION, CONTACT:		T. SHINGLER		T. SHINGLER	
8. ASTM E331 WATER INFILTRATION TEST RESULTS		0 @ 6.24 PSF		0 @ 6.24 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS		0.059 @ 6.24 PSF		0.059 @ 6.24 PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)					
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION		UL-90		UL-90	
12. SEE APPENDIX IF CHECKED					

NA=not applicable

# Metal Roof Components

AEP-SPAN HIGH-SEAM (HS)		AEP-SPAN CAP-SEAM (CS)		AEP-SPAN BATTEN SYSTEM (BS)	
STANDING SEAM		STANDING SEAM		BATTEN SEAM	
12, 20 X 45		12, 20 X 45		16, 24 X 45	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR	22, 24	KYNAR	22, 24	KYNAR
0.032, 0.40	KYNAR	0.032, 0.40	KYNAR	0.032, 0.40	KYNAR
16, 20		16, 20		16, 20	
3:12		3:12		4:12	
3:12		3:12		4:12	
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	N	1	F	2	N
CONCEALED CONCEALED		CONCEALED CONCEALED		CONCEALED CONCEALED	
DIRECT 40 NO		DIRECT 40 NO		DIRECT 40 NO	
J. SMITH T. SHINGLER		J. SMITH T. SHINGLER		J. SMITH T. SHINGLER	
NONE		0 @ 6.24 PSF		NONE	
NONE		0.031 @ 6.24		NONE	
NONE		NONE		NONE	
UL-90		UL-90		NONE	

# Metal Roof Components

1. COMPANY NAME	AEP-SPAN		AEP-SPAN	
2. PRODUCT NAME	BERMUDA (RP)		SQUARE BATTEN (SB)	
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	BERMUDA		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	9 1/2 X 30		1 X 12	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)				
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	22, 24	KYNAR	22, 24	KYNAR
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.032, 0.40	KYNAR	0.032	KYNAR
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.)	4:12		4:12	
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	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)	CONCEALED		CONCEALED	
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	1975		1975	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	40		40	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J. SMITH		J. SMITH	
FOR TECHNICAL INFORMATION, CONTACT:	T. SHINGLER		T. SHINGLER	
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 Roof Components

AEP-SPAN SPAN-RIB (SR)		AEP-SPAN STANDING SEAM (SS)		AEP-SPAN SPAN-LOK (SL)	
STANDING SEAM		STANDING SEAM		STANDING SEAM	
1 1/2 X 12		1 X 12		16, 18 X 45	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR	22, 24	KYNAR	22, 24	
0.032	KYNAR	0.032	KYNAR	0.032, 0.40	
				16, 20	
3:12		3:12			
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
				2, 3	F
			N		
CONCEALED		CONCEALED		CONCEALED	
CONCEALED		CONCEALED		CONCEALED	
1975		1975		1993	
DIRECT		DIRECT		DIRECT	
40		40		40	
NO		NO		YES	
J. SMITH		J. SMITH		J. SMITH	
T. SHINGLER		T. SHINGLER		T. SHINGLER	
				0 @ 6.24 PSF	
				0.015 CFU/SF @ 6.24 P55	
				UL-90	

# Metal Roof 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)		WOOD		SNAP-ON BATTEN STANDING SEAM	
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					
A. PANEL (width (in.), maximum length (ft.))		12 X 48		12, 16, 18, 20, 24 X 50	
B. INDIVIDUAL (dimensions: inches x inches)					
3.3 MATERIALS, THICKNESSES, AND FINISHES		THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)		0.019	HYLAR 5000, KYNAR 500	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.)				0.19, 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		X		X	
SOLID DECK, WOOD				X	
SPACED SHEATHING, WOOD				X	
DECKING NOT REQUIRED					
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					
5.2 FASTENING METHOD					
A. THROUGH-FASTENED (exposed or concealed, specify)					
B. CLIP (exposed or concealed, specify)				CONCEALED	
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 Roof Components

ATAS INTERNATIONAL INC. PC SNAP-ON SEAM/BATTEN		ATAS INTERNATIONAL INC. TECHO TILE		ATAS INTERNATIONAL INC. DUTCH SEAM MRD	
SNAP-ON SEAM/SNAP-ON BATTEN STANDING SEAM		SPANISH		STANDING SEAM	
12 1/2, 15 1/4 X 65		39 X 13		11, 15, 19 X 65	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500	24	KYNAR 500	24	KYNAR 500
0.032, 0.040	KYNAR 500	0.032	KYNAR	0.032, 0.040	KYNAR
3:12 3:12		3:12 3:12		2:12 2:12	
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 1/4	N	2	N	1 1/2	F
CONCEALED		EXPOSED		CONCEALED	
1979 > 100,000 DISTRIBUTORS 2 NO J. BUSH 610/395-8446 J. BUSH 610/395-8446		1992 > 100 DISTRIBUTORS 2 NO J. BUSH 610/395-8446 J. BUSH 610/395-8446		1991 > 100,000 DISTRIBUTORS 2 NO J. BUSH 610/395-8446 J. BUSH 610/395-8446	
NONE		NONE		NO LEAKAGE @12 PSF (69 MPH)	
NONE		NONE		0.08 CFM/ft <sup>2</sup> @1.57 PSF(25 MPH)	
CLASS A		NONE		CLASS A	
UL-90		NONE		UL-90	
X		X		X	



# Metal Roof 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	0.032, 0.40	KYNAR
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 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	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 Roof Components

METAL

# Metal Roof Components

1. COMPANY NAME	ATAS INTERNATIONAL INC.		BERRIDGE MANUFACTURING CO.	
2. PRODUCT NAME	STANDING SEAM SHINGLE		BERMUDA ROOF PANEL	
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 WITH TRANSVERSE SEAM		"BERMUDA"-STYLE HORIZONTAL PLANK	
A. PANEL (width (in.), maximum length (ft.))	16 X 3-5		11 X UNLIMITED	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	29		24	KYNAR 500, HYLAR 5000
STAINLESS STEEL (ga.)				
GALVALUME (ga.)			24	KYNAR 500, HYLAR 5000
ALUMINIZED STEEL (ga.)			24	
ALUMINUM (in.)				
COPPER (oz.)			16	
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			
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				
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	1995		1992	
B. NUMBER OF SQUARES INSTALLED	100		> 10,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	2		7	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		YES	
FOR SALES INFORMATION, CONTACT:	J. BUSH 610/395-8446		D. DOYLE 800/231-8127	
FOR TECHNICAL INFORMATION, CONTACT:	J. BUSH 610/395-8446		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)	NONE		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		UL-90	
12. SEE APPENDIX IF CHECKED			X	

NA=not applicable

# Metal Roof Components

BERRIDGE MANUFACTURING CO. RUSTIC SHAKE SHINGLE		BERRIDGE MANUFACTURING CO. BERMUDA SHAKE SHINGLE		BERRIDGE MANUFACTURING CO. SPANISH TILE	
CEDAR SHAKE		CEDAR SMOOTH		SPANISH	
12 X 24		10 X 60		9 X 40 8 X 17	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
24		24		24	
24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, HYLAR 5000
16		16		16	
3:12		3:12		3:12	
X		X		X	
X		X		X	
30-LB FELT		30-LB FELT		NA	
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
				CONCEALED	
155 12 X 24 50		135 10 X 60 24		256 8 X 16 100	
CONCEALED NAILS 2 INTERLOCK NO NO		CONCEALED CLIP NAIL 4 INTERLOCK NO NO		CONCEALED SCREWS 1 NA NO NO	
1970 > 10,000 DISTRIBUTORS, DIRECT 7 YES D. DOYLE 800/231-8127 B. MARKS 800/231-8127		1970 > 5,000 DISTRIBUTORS, DIRECT 7 YES D. DOYLE 800/231-8127 B. MARKS 800/231-8127		1970 > 20,000 DISTRIBUTORS, DIRECT 7 YES D. DOYLE 800/231-8127 B. MARKS 800/231-8127	
NONE		NONE		NONE	
NONE		NONE		NONE	
CLASS A		CLASS A		CLASS A	
NONE		NONE		NONE	

# Metal Roof Components

1. COMPANY NAME	BERRIDGE MANUFACTURING CO.		BERRIDGE MANUFACTURING CO.	
2. PRODUCT NAME	VICTORIAN SHINGLE		CLASSIC SHINGLE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)	FLAT WITH SCULPTURED DESIGN-RESTORATION		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)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL (width (in.), maximum length (ft.))	9 X 12		9 X 12	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, UNFINISHED, HYLAR 5000
STAINLESS STEEL (ga.)	24		24	
GALVALUME (ga.)	24	KYNAR 500, HYLAR 5000	24	KYNAR 500, UNFINISHED 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.)	6:12		6:12	
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				
A. OVERLAPPED	HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
B. INTERLOCKED		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
C. SLIP LOCKED		N		
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)	151		151	
B. EXPOSURE (inches)	9 X 12		9 X 12	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	133		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)	NAILS		NAILS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	2		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	1970		1970	
B. NUMBER OF SQUARES INSTALLED	> 1,000		> 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 Roof Components

BERRIDGE MANUFACTURING CO.		CARTER HOLT HARVEY ROOFING INC.		CARTER HOLT HARVEY ROOFING INC.	
S-TILE		DECRA TILE		DECRA SHAKE	
S-TILE		SPANISH BARREL		HAND SPLIT SHAKE	
32 11/16 X 40		16 1/2 X 52 1/4		13 1/2 X 53	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500, HYLAR 5000				
24	KYNAR 500, HYLAR 5000	26	STONE CHIP	26	STONE CHIP
3:12		3:12 2 1/2:12		3:12 2 1/2:12	
X X X 30-LB FELT		X X X		X X X	
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				
EXPOSED					
		140 14 1/2 X 49 1/2 20		140 12 1/2 X 51 22.6	
		EXPOSED NAIL OR SCREW 3.5 INTERLOCK NO YES		EXPOSED NAIL OR SCREW 3.5 INTERLOCK NO YES	
1993 DISTRIBUTORS, DIRECT 7 YES 800/231-8127 800/231-8127		1957 DIRECT 7 YES M.R. TWEDELL 817/695-1090 M.R. TWEDELL 817/695-1090		1992 DIRECT 7 YES M.R. TWEDELL 817/695-1090 M.R. TWEDELL 817/695-1090	
NONE					
NONE					
CLASS A		CLASS A, B, C		CLASS A, B, C	
		X		X	

# Metal Roof Components

1. COMPANY NAME	CLASSIC PRODUCTS, INC.		DURA-LOC ROOFING SYSTEMS	
2. PRODUCT NAME	RUSTIC SHINGLE		CONTINENTAL	
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)				
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.)]				
B. INDIVIDUAL (dimensions: inches x inches)	12 X 24		16 X 48	
3.3 MATERIALS, THICKNESSES, AND FINISHES				
GALVANIZED STEEL (ga.)	THICKNESSES	FINISHES	THICKNESSES	FINISHES
STAINLESS STEEL (ga.)				
GALVALUME (ga.)			0.019	COLORED GRANULES
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.019	KYNAR		
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		4:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		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 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)	40		125	
B. EXPOSURE (inches)	12 X 24		16	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	50		20	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		EXPOSED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS		NAILS, SCREWS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	2		3	
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		YES	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1960		1984	
B. NUMBER OF SQUARES INSTALLED	> 500,000			
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS			5	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		YES	
FOR SALES INFORMATION, CONTACT:	T. MILLER 800/543-8938		J. PRINCE 800/265-9357	
FOR TECHNICAL INFORMATION, CONTACT:	D. MILLER 800/543-8938		A. REID 800/265-9357	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NO LEAKAGE @ 12 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A, B, AND C		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable



# Metal Roof Components

DURA-LOC ROOFING SYSTEMS SHADOWLINE		DURA-LOC ROOFING SYSTEMS SHAKE		GERARD ROOFING TECHNOLOGIES GERARD SHAKE	
X		THICK SPLIT SHAKE		X	
16 X 48		16 X 48		44 3/4 X 15 1/2	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
0.019	COLORLED GRANULES	0.019	COLORLED GRANULES	26	STONE COATED
				26	STONE COATED
4:12		4:12		2 1/2:12	
2:12		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
125		125		140	
16		16		42 3/4 X 14 1/2	
20		20		23.2	
EXPOSED NAILS, SCREWS 3		EXPOSED NAILS, SCREWS 3		EXPOSED NAILS OR SCREWS 5	
INTERLOCK		INTERLOCK		INTERLOCK	
NO		NO		NO	
YES		YES		YES	
1994		1995		1989	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		>200,000	
5		5		DIRECT	
YES		YES		2	
J. PRINCE 800/265-9357		J. PRINCE 800/265-9357		NO	
A. REID 800/265-9357		A. REID 800/265-9357		J.T. BROWN 800/341-3213	
NO LEAKAGE @ 12 PSF		NO LEAKAGE @ 12 PSF		J. MAREK 800/841-3213	
NONE		NONE			
CLASS A		CLASS A		CLASS A, B, C	
UL-90		UL-90			

# Metal Roof 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					
GALVANIZED STEEL (ga.)		THICKNESSES	FINISHES	THICKNESSES	FINISHES
STAINLESS STEEL (ga.)		26	STONE COATED		
GALVALUME (ga.)		26	STONE COATED	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400
ALUMINIZED STEEL (ga.)				0.032	BARE-SIGNATURE SERIES 200, 300, 400
ALUMINUM (in.)					
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	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				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		DIRECT	
C. METHOD OF DISTRIBUTION (distributors, direct)		DIRECT		16	
D. NUMBER OF REGIONAL SERVICE LOCATIONS		2		NO	
E. LICENSED APPLICATOR AGREEMENT (yes/no)		NO			
FOR SALES INFORMATION, CONTACT:		J.T. BROWN	800/341-3213	W. DICKINSON	
FOR TECHNICAL INFORMATION, CONTACT:		J. MAREK	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 Roof Components

MBCI CRAFTSMAN SERIES "SB" PROFILE		MBCI CRAFTSMAN "LB" PROFILE		MBCI TRADITIONAL SERIES "BC" PROFILE	
STANDING SEAM: SEPARATE PAN AND BATTEN		STANDING SEAM: SEPARATE PAN AND BATTEN		STANDING SEAM: INTEGRAL BATTEN PANEL	
12, 16 1/2 X 40		12, 16 1/2 X 40		12, 15, 18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400
0.032	BARE-SIGNATURE SERIES 200, 300, 400	0.032	BARE-SIGNATURE SERIES 200, 300, 400	0.032	BARE-SIGNATURE SERIES 200, 300, 400
3:12 3:12		3:12 3:12		3:12 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
3/8	F	2	F	2	
CONCEALED		CONCEALED		CONCEALED	
1983		1983		1983	
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		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")		NONE	
UL-90		UL-90		NONE	
				UL-90	

# Metal Roof Components

1. COMPANY NAME		MBCI		MBCI	
2. PRODUCT NAME		TRADITIONAL SERIES "RC" PROFILE		TRADITIONAL SERIES "SC" 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)					
E. OTHER (specific type)					
3.2 COMPONENT TYPE AND SIZE		STANDING SEAM: INTEGRAL BATTEN PANEL		STANDING SEAM: INTEGRAL BATTEN PANEL	
A. PANEL [width (in.), maximum length (ft.)]		12, 15, 18 X 40		12, 15, 18 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.)		22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400
ALUMINIZED STEEL (ga.)					
ALUMINUM (in.)		0.032	BARE-SIGNATURE SERIES 200, 300, 400	0.032	BARE-SIGNATURE SERIES 200, 300, 400
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					
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		1983		1983	
B. NUMBER OF SQUARES INSTALLED					
C. METHOD OF DISTRIBUTION (distributors, direct)		DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS		16		16	
E. LICENSED APPLICATOR AGREEMENT (yes/no)		NO		NO	
FOR SALES INFORMATION, CONTACT:		W. DICKINSON		W. DICKINSON	
FOR TECHNICAL INFORMATION, CONTACT:		T. WOLFE		T. WOLFE	
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		UL-90		UL-90	
12. SEE APPENDIX IF CHECKED					

NA=not applicable

# Metal Roof Components

MBCI LOKSEAM		MCELROY METAL INC. MEDALLION I & 2		MCELROY METAL INC. MEDALLION-LOK	
STANDING SEAM: VERTICAL LEG PANEL		STANDING SEAM: BATTEN CAP		STANDING SEAM	
10, 12, 18 X 40		12 X 40		16 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400	24	BARE-SIGNATURE SERIES 200, 300, 400	24	SILICONIZED POLYESTER KYNAR 500, BARE
0.032	BARE-SIGNATURE SERIES 200, 300, 400				
3:12		3:12		3:12	
X X X		X		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 3/4	F	1 1/2	N	1 3/4	F
CONCEALED		CONCEALED		CONCEALED	
1990		1990		1993	
DIRECT		> 1,000 DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
16		6		6	
NO		NO		NO	
W. DICKINSON		J. DARRAH 800/950-6531		J. DARRAH 800/950-6531	
T. WOLFE		E. OSTEN 800/950-6531		E. OSTEN 800/950-6531	
1.57 PSF-LEAKAGE RATE/NONE		NO LEAKAGE AT 12 PSF		NONE	
1.57 PSF-LEAKAGE RATE: 0.009 (18"), 0.013 (12"), 0.016 (10")		0.005 AT 12 PSF		NONE	
UL-90		NONE		NONE	
		NONE		UL-90	

# Metal Roof Components

1. COMPANY NAME	METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.	
2. PRODUCT NAME	PRO-LOC I, II, III		STILE	
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)	STANDING SEAM: INTEGRAL BATTEN			
3.2 COMPONENT TYPE AND SIZE				
A. PANEL (width (in.), maximum length (ft.))	12, 15, 18 X 40		39.4 X 20	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	BARE, COLORFAST 25	26	KYNAR 500 (PUFZ)
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	24	BARE, KYNAR 500 (PUFZ)		
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	X		X	
SOLID DECK, WOOD				
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)	CONCEALED		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	1989		1983	
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)	NONE		CLASS A	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

# Metal Roof Components

METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.	
5V CRIMP		PRO-PANEL II		MINI, MAXI BATTEN	
ARCHITECTURAL		CORRUGATED		STANDING SEAM: PAN AND BATTEN	
26 X 40		38 X 40		12, 16, 18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
26	BARE, COLORFAST 25	26, 29	COLORFAST 25	26	BARE, COLORFAST 25
		26, 29	BARE	24	BARE, KYNAR 500 (PUFZ)
3:12		3:12		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
1/2	N	5/8	N	1, 1 1/2	N
EXPOSED		EXPOSED		CONCEALED	
1968				1993	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
12		12		12	
D. CUNNINGHAM J. GIANACAKES		D. CUNNINGHAM J. GIANACAKES		D. CUNNINGHAM J. GIANACAKES	
NONE		NONE		NO LEAKAGE	
NONE		NONE		.004 CFM/SQ. FT.	
NONE		NONE		NONE	
NONE		NONE		UL-90	

# Metal Roof Components

1. COMPANY NAME	METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.	
2. PRODUCT NAME	VERTICAL SEAM		IMAGE II	
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 SEAM		STANDING SEAM: SNAP SEAM	
A. PANEL [width (in.), maximum length (ft.)]	10, 12, 16, 18 X 40		12, 16 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES			THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	BARE, COLORFAST 25	29, 26	COLORFAST 25
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	24	BARE, KYNAR 500 (PUFZ)		
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	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				
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	1993		1996	
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	NO LEAKAGE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	.110 CFM/SQ. FT.		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 780)	NONE		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable



# Metal Roof Components

MET-TILE INC. MET-TILE		PETERSEN ALUMINUM CORP. INTEGRAL BATTEN		PETERSEN ALUMINUM CORP. REDI-ROOF STANDING SEAM	
MISSION TILE		STANDING SEAM: INTEGRAL BATTEN SEAM		STANDING SEAM	
30 X 20		11-18 X 40		12-18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
26	POLYCAROM 3200	24	KYNAR 500	24	KYNAR 500
26		0.032	KYNAR 500	0.032	KYNAR 500
2:12 1 1/2:12		3:12 3:12		3:12 3:12	
X X 30-LB FELT		X X 30-LB FELT		X 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 1/2	N
CONCEALED		CONCEALED		CONCEALED	
EXPOSED					
1984 > 100,000 DISTRIBUTORS 20 NO T. HOLMAN 800/899-0311 T. HOLMAN 800/899-0311		1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO 800/323-1960 800/323-1960		1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO 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	
UL-90		UL-90		UL-90	

# Metal Roof 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 Roof 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 DISTRIBUTORS, DIRECT		1978 > 100,000 DISTRIBUTORS, DIRECT		1978 > 100,000 DISTRIBUTORS, DIRECT	
4 NO		4 NO		4 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 Roof 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)				
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 Roof Components

PETERSEN ALUMINUM CORP. SNAP-CLAD		ULTRA SEAM, INC. US 150 SL		ULTRA SEAM, INC. US 175 SL	
STANDING SEAM		STANDING SEAM		STANDING SEAM	
10-18 X 45		12 3/4, 14 3/4, 18 3/4 X NO LIMIT		12 3/4, 14 3/4, 18 3/4 X NO LIMIT	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR 500	22, 24, 26, 28	KYNAR	22, 24, 26, 28	KYNAR
		0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED
		22, 24, 26	KYNAR, UNFINISHED	22, 24, 26	KYNAR, UNFINISHED
		22, 24, 26	UNFINISHED	22, 24, 26	UNFINISHED
	KYNAR 500	0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED
		16, 20	UNFINISHED	16, 20	UNFINISHED
		26, 28, 20		26, 28, 20	
		0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED
2:12 2:12		3:12		3:12	
X 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 3/4	F	1 1/2	E	1 3/4	E
CONCEALED		CONCEALED		CONCEALED	
1993 > 100,000 DISTRIBUTORS, DIRECT 4 NO		1991 DISTRIBUTORS 10 YES		1982 DISTRIBUTORS 10 YES	
800/323-1960 800/323-1960		L. PRIDE 800/874-7326 R. STEYER 810/960-0540		L. PRIDE 800/874-7326 R. STEYER 810/960-0540	
NO LEAKAGE @12 PSF					
0.005 CFM/SQ FT @1.57PSF					
CLASS A					
UL-90				UL-90	

# Metal Roof Components

1. COMPANY NAME	ULTRA SEAM, INC.		ULTRA SEAM, INC.	
2. PRODUCT NAME	US 150 A		US 150 WB	
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: BATTEN SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12, 16, 20, 24 X NO LIMIT		15 3/4, 19 3/4, 23 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.)			1 1/2:12	
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 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	1982		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	810/960-0540	R. STEYER	810/960-0540
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NO LEAKAGE, 15 MINUTES @ 9 PSF			
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.004 CFM/SQ FT			
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 Roof Components

ULTRA SEAM, INC.		VINCENT METALS	
US 100 SS		COLORKLAD SYSTEM I	
STANDING SEAM		STANDING SEAM	
14 1/2, 18 1/2 X NO LIMIT		12, 16, 18, 22 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES
24, 26, 28	KYNAR	24	KYNAR 500
0.015, 0.018	UNFINISHED	24, 26	MILL
24, 26	KYNAR, UNFINISHED		
24, 26	UNFINISHED		
0.027, 0.032	KYNAR, UNFINISHED	0.032	KYNAR 500
16, 20	KYNAR, UNFINISHED	16, 20	MILL
26, 28, 20		24, 26, 28, 30	MILL
0.020, 0.027	UNFINISHED		
4:12		3:12	
6:12			
X		X	
X			
30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT	HEIGHT (inches)	SEAM SEALANT
	F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE		F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
1	E	1, 1 1/2	E
CONCEALED		CONCEALED	
1982		1969	
DISTRIBUTORS		DISTRIBUTORS, DIRECT	
10		NO	
YES			
L. PRIDE 800/874-7326		R. OEHME	
R. STEYER 810/960-0540		R. OEHME	
		NONE	
		NONE	
		NONE	



# WOOD SHAKES AND SHINGLES

# 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	135,000	250,000	700,000
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:	G. FEAVER 800/663-8707	G. FEAVER 800/663-8707	G. FEAVER 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.	SCOTT CEDAR PRODUCTS 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 +	220,000	530,000	1 MILLION +	215,000	700,000 +
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
G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388

# Wood Shakes and Shingles

1. COMPANY NAME	SCOTT CEDAR PRODUCTS LTD.	SCOTT CEDAR PRODUCTS LTD.	SCOTT CEDAR PRODUCTS LTD.
2. PRODUCT NAME	SCOTT CEDAR	SCOTT CEDAR	SCOTT CEDAR
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	
3. SHAKE, TAPER-SAWN, 18-INCH			X
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	7 1/2	10
B. HEADLAP (inches)	14	16 1/2	14
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)	250	270	270 +
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	1981	1981
11. NUMBER OF SQUARES INSTALLED	1.3 MILLION +	210,000 +	215,000 +
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:	G. FEAVER 800/663-8707	G. FEAVER 800/663-8707	G. FEAVER 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

SCOTT CEDAR PRODUCTS LTD.	SCOTT CEDAR PRODUCTS LTD.	STAVE LAKE CEDAR MILLS	STAVE LAKE CEDAR MILLS	STAVE LAKE CEDAR MILLS	SUMAS WOOD TREATERS
SCOTT CEDAR	SCOTT CEDAR	STAVE LAKE	STAVE LAKE	STAVE LAKE	CEDAR PLUS
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
5 1/2	7 1/2	10	10	5 1/2	10
12 1/2	16 1/2	14	14	12 1/2	14
260 +	290 +				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
NONE	NONE	TYPE-30 FELT	TYPE-30 FELT	NONE	TYPE-30 FELT
NONE	NONE	NONE	NONE	NONE	NONE
3:12	3:12			3:12	
NONE	NONE			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
1981	1981	1938	1938	1938	1984
315,000 +	210,000 +	760,000	760,000	760,000	450,000
400 ±	400 ±	60	60	60	400 ±
NO	NO	NO	NO	NO	NO
					A, B, C A, B, C
ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO	ICBO	ICBO	ICBO, BOCA, SBCCI
G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388	G. FEAVER 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	C. NORTHRUP 800/4WALDUN T. FARIS 206/337-7745	G. FEAVER 800/663-8707 M. RUTLEDGE 800/963-3388

# Wood Shakes and Shingles

1. COMPANY NAME	SUMAS WOOD TREATERS	SUMAS WOOD TREATERS	SUMAS WOOD TREATERS
2. PRODUCT NAME	CEDAR PLUS	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	
3. SHAKE, TAPER-SAWN, 18-INCH			X
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	7 1/2	10
B. HEADLAP (inches)	14	10 1/2	14
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)	260 +	280 +	280
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. WAFFERBOARD	X	X	X
4. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1984	1984	1984
11. NUMBER OF SQUARES INSTALLED	590,000	125,000	115,000
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	A, B, C
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	A, B, C	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:	G. FEAVER 800/663-8707	G. FEAVER 800/663-8707	G. FEAVER 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

SUMAS WOOD TREATERS	SUMAS WOOD TREATERS	TAMARK MANUFACTURING, LLC	TAMARK MANUFACTURING, LLC	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS
CEDAR PLUS	CEDAR PLUS	LIFEPINE SHAKE	LIFEPINE SHAKE	WALDUN	WALDUN
WESTERN RED CEDAR	WESTERN RED CEDAR	TREATED PINE	TREATED PINE	WESTERN RED CEDAR	WESTERN RED CEDAR
				X	X
X	X				
		X	X		
NO	NO	NO	NO	NO	NO
5 1/2	7 1/2	10	10	10	10
12 1/2	16 1/2	14	14	14	14
270	295	390	390		
NAILS OR STAPLES	NAILS OR STAPLES	NAILS	NAILS	NAILS OR STAPLES	NAILS OR STAPLES
YES	YES	YES	YES	YES	YES
4:12	4:12	4:12	4:12	4:12	4:12
NONE	NONE	NO.-30 FELT	NO.-30 FELT	TYPE-30 FELT	TYPE-30 FELT
NONE	NONE	NONE	NONE	NONE	NONE
3:12	3:12	2:12	2:12		
NONE	NONE	NO.-30 FELT	'NO.-30 FELT		
NONE	NONE	HOT MOP	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	1-IN. X 6-IN. LUMBER		
1984	1984	1984	1984	1968	1968
350,000	110,000	110,000	110,000	800,000	800,000
400 ±	400 ±	48	48	100	100
NO	NO	26	26	NO	NO
A, B, C	A, B, C	CLASS C			
A, B, C	A, B, C				
ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI,	ICBO, BOCA, SBCCI,	ICBO	ICBO
G. FEAVER	G. FEAVER	K. RULE	K. RULE	C. NORTHRUP	C. NORTHRUP
800/663-8707	800/663-8707	800/735-7663 912/232-0786	800/735-7663 912/232-0786	800/4WALDUN	800/4WALDUN
M. RUTLEDGE	M. RUTLEDGE	K. RULE	K. RULE	T. FARIS	T. FARIS
800/963-3388	800/963-3388	800/735-7663	800/735-7663	206/337-7745	206/337-7745
		X	X		

# Wood Shakes and Shingles

1. COMPANY NAME	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS
2. PRODUCT NAME	WALDUN	WALDUN	WALDUN
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.)			
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)			
3. SHAKE, TAPER-SAWN, 18-INCH	X		
4. SHAKE, TAPER-SAWN, 24-INCH		X	
5. SHINGLE, PERFECTION 18-INCH			X
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)	7 1/2	10	5 1/2
B. HEADLAP (inches)	10 1/2	14	12 1/2
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)			
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	NONE
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE	NONE	NONE
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)			3:12
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			NONE
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION			NONE
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)			
10. YEAR PRODUCT FIRST SOLD	1968	1968	1968
11. NUMBER OF SQUARES INSTALLED	800,000	800,000	800,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	100	100	100
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	ICBO	ICBO
15A. FOR SALES INFORMATION, CONTACT:	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN
15B. FOR TECHNICAL INFORMATION, CONTACT:	T. FARIS 206/337-7745	T. FARIS 206/337-7745	T. FARIS 206/337-7745
16. SEE APPENDIX IF CHECKED			

NA=not applicable



# Wood Shakes and Shingles

WALDUN FOREST PRODUCTS
WALDUN
WESTERN RED CEDAR
X
NO
7 1/2
18 1/2
NAILS OR STAPLES
YES
4:12
NONE
NONE
3:12
NONE
NONE
X
X
X
X
1968
800,000
100
NO
ICBO
C. NORTHRUP 800/4WALDUN T. FARIS 208/337-7745





**SLATE**

**AND**

**SYNTHETIC ROOF**

**COMPONENTS**

# Slate

1. COMPANY NAME	BUCKINGHAM-VIRGINIA SLATE CORPORATION			ECHUGUREN SLATE, INC.				
2. PRODUCT DESCRIPTION	BUCKINGHAM UNFADING			FOREIGN AND DOMESTIC 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)	
A. STANDARD SMOOTH	3/16-1/4		800-900		3/16-1/4		700-800	
B. ROUGH	FULL 1/4		900		1/4-3/8		1,000	
	FULL 3/8		1,100		3/8-1/2		1,500	
	FULL 1/2		1,700		1/2-3/4		2,300	
	1/2-3/4		2,300		3/4-1		3,200	
	3/4-1		3,200		1 +		4,000 +	
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)		LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)	
	24	16, 14, 13, 12, 11	10 1/2		24	16, 14, 12	10 1/2	
	22	14, 13, 12, 11, 10	9 1/2		22	14, 12, 11	9 1/2	
	20	14, 13, 12, 11, 10, 9	8 1/2		20	14, 12, 11, 10	8 1/2	
	18	14, 13, 12, 11, 10, 9	7 1/2		18	14, 12, 11, 10, 9	7 1/2	
	16	14, 12, 11, 10, 9, 8	6 1/2		16	14, 12, 11, 10, 9, 8	6 1/2	
	14	12, 11, 10, 9, 8, 7	5 1/2		14	12, 11, 10, 9, 8, 7	5 1/2	
	12	10, 9, 8, 7, 6	4 1/2		12	10, 9, 8, 7, 6	4 1/2	
					10	10, 9, 7, 6	3 1/2	
5. COLORS AVAILABLE (specify: weathering, semi-weathering, unfading, semi-unfading, or X.)								
A. BLACK					X			
B. BLUE-BLACK	UNFADING				X			
C. GRAY					X			
D. BLUE-GRAY					X			
E. GRAY-BLACK					X			
F. MOTTLED GRAY-BLACK					X			
G. GRAY-GREEN					X			
H. GREEN					WEATHERING, UNFADING			
I. MOTTLED GRAY-GREEN					UNFADING			
J. PURPLE					X			
K. MOTTLED PURPLE/GREEN					X			
L. GREEN					X			
M. PURPLE VARIEGATED					UNFADING			
N. RED					UNFADING			
6. SLOPE/UNDERLAYMENT RECOMMENDATIONS								
A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot)	4:12				4:12			
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	30-LB FELT				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				X			
2. SPACED SHEATHING	X				X			
B. MATERIAL								
1. PLYWOOD/WOOD	X				X			
2. ORIENTED STRAND BOARD								
3. WAFERBOARD								
4. OTHER (specify)								
8. FLASHING MATERIAL	COPPER, TIN, LEAD, GALVANIZED IRON, OR ZINC				COPPER, TIN, LEAD, GALVANIZED IRON, OR ZINC			
9. YEAR PRODUCT FIRST SOLD	1927				1983			
10. NUMBER OF SQUARES INSTALLED	250,000				> 10,000			
11. DISTRIBUTION								
A. DISTRIBUTORS (number handling product or no)	55				30			
B. DIRECT (number of regional service locations or no)	1				2			
12. TECHNICAL INFORMATION								
COMPLIES WITH ASTM STANDARD C 406-89 STANDARD SPECIFICATION FOR ROOFING SLATE (grade: check one)								
GRADE S <sub>1</sub> Over 75 years service life	X				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:	804/581-1131				800/992-0701			
13B. FOR TECHNICAL INFORMATION, CONTACT:	804/581-1131				800/992-0701			
14. SEE APPENDIX IF CHECKED								

NA=not applicable

# Slate

EVERGREEN SLATE COMPANY, INC.			HILLTOP SLATE INC.			NEWFOUNDLAND SLATE INC.		
VERMONT ROOFING SLATE			VERMONT AND NEW YORK NATURAL SLATE			NATURAL ROOFING 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	700-800		3/16-1/4	650-800	
1/4-3/8	1,000		3/16-1/4-3/8	825-1,000		1/4-3/8	800-1,200	
3/8-1/2	1,600		FULL 1/4	900		3/8-1/2	1,200-1,800	
1/2-3/4	2,200		FULL 3/8	1,100				
3/4-1	3,400		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	AVG. 1,800		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	14, 12	10 1/2	24	16, 14, 12	10 1/2	24	14, 12	10 1/2
22	14, 12, 11	9 1/2	22	16, 12, 11	9 1/2	22	14, 12, 11	9 1/2
20	14, 12, 11, 10	8 1/2	20	14, 12, 11, 10	8 1/2	20	14, 12, 10	8 1/2
18	14, 12, 11, 10, 9	7 1/2	18	14, 12, 11, 10, 9	7 1/2	18	12, 10, 9	7 1/2
16	14, 12, 11, 10, 9, 8	6 1/2	16	14, 12, 11, 10, 9, 8	6 1/2	16	12, 10, 8	6 1/2
14	14, 12, 11, 10, 9, 8, 7	5 1/2	14	14, 12, 11, 10, 9, 8, 7	5 1/2	14	12, 10, 8	5 1/2
12	12, 10, 9, 8, 7, 6	4 1/2	12	12, 10, 9, 8, 7, 6	4 1/2	12	10, 8	4 1/2
10	10, 9, 8, 7, 6	3 1/2	10	10, 9, 8, 7, 6	3 1/2			
SEMI-UNFADING, UNFADING UNFADING SEMI-WEATHERING, UNFADING SEMI-WEATHERING, UNFADING SEMI-UNFADING SEMI-WEATHERING, UNFADING SEMI-WEATHERING, UNFADING UNFADING SEMI-UNFADING UNFADING SEMI-WEATHERING, UNFADING SEMI-WEATHERING UNFADING			SEMI-WEATHERING UNFADING SEMI-WEATHERING SEMI-WEATHERING SEMI-WEATHERING UNFADING UNFADING UNFADING UNFADING UNFADING SEMI-WEATHERING UNFADING			UNFADING UNFADING SEMI-WEATHERING, UNFADING X X X UNFADING UNFADING UNFADING UNFADING UNFADING UNFADING UNFADING		
8:12 30-LB FELT			4:12 30-LB FELT			8:12 30-LB FELT		
4:12						4:12 ICE/WATER SHIELD		
X						X X		
X						X		
COPPER, STAINLESS STEEL						2" X 3" WOODEN BATTENS		
1916			1948			COPPER, LEAD		
10 MILLION			275,000			1988		
10			3 1			50,000		
X			X			10 1		
R.C. HICKS, J. BAKER 518/642-2530			H. WOOD 518/642-2270			X		
R.C. HICKS, J. BAKER 518/642-2530			H. WOOD 518/642-2270			DAVE LANGE 800/975-2835		
X						DAVE LANGE 800/975-2835		

# Slate

1. COMPANY NAME	PENN BIG BED SLATE COMPANY, INC.		RISING & NELSON SLATE COMPANY, INC.	
2. PRODUCT DESCRIPTION	PENNSYLVANIA SLATE		NEW YORK/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)
A. STANDARD SMOOTH	3/16	750	3/16-1/4	700-850
B. ROUGH	3/16-1/4	800	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)	LENGTHS (inches)	STANDARD WIDTHS (inches)
	24	14, 12	24	16, 14, 12
	22	12, 11	22	16, 12, 11
	20	12, 11, 10	20	14, 12, 11, 10
	18	12, 11, 10, 9	18	14, 12, 11, 10, 9
	16	12, 11, 10, 9, 8	16	14, 12, 11, 10, 9, 8
	14	12, 11, 10, 9	14	14, 12, 11, 10, 9, 8, 7
	12	10, 9, 8, 7, 6	12	12, 10, 9, 8, 7, 6
			10	10, 9, 8, 7, 6
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	X		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				
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		X	
B. MATERIAL				
1. PLYWOOD/WOOD	X		X	
2. ORIENTED STRAND BOARD				
3. WAFERBOARD				
4. OTHER (specify)				
8. FLASHING MATERIAL	COPPER, GALVANIZED			
9. YEAR PRODUCT FIRST SOLD	1934		1869	
10. NUMBER OF SQUARES INSTALLED	140,000 +		300,000	
11. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)				
B. DIRECT (number of regional service locations or no)	1		1	
12. TECHNICAL INFORMATION				
COMPLIES WITH ASTM STANDARD C 406-89 STANDARD SPECIFICATION FOR ROOFING SLATE (grade: check one)				
GRADE S <sub>1</sub> Over 75 years service life	X		X	
GRADE S <sub>2</sub> 40 to 75 years service life	X			
GRADE S <sub>3</sub> 20 to 40 years service life				
13A. FOR SALES INFORMATION, CONTACT:	P. PAPAY 610/767-4601		S. WILLIAMS 518/642-3333	
13B. FOR TECHNICAL INFORMATION, CONTACT:	P. PAPAY 610/767-4601		S. WILLIAMS 518/642-3333	
14. SEE APPENDIX IF CHECKED	X		X	

NA=not applicable

# Slate

VERMONT SLATE COMPANY			VERMONT STRUCTURAL SLATE COMPANY, INC.		
ROOFING SLATE			VERMONT UNFADING SLATE		
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		700-850	3/16-1/4		700-850
1/4-3/8		1,000	3/16-3/8		700-1,350
3/8-1/2		1,500			
1/2-3/4		2,200			
3/4-1		3,200			
			3/16-2		NA
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	16, 14, 12	10 1/2
22	16, 12, 11	9 1/2	22	16, 12, 11	9 1/2
20	14, 12, 11, 10	8 1/2	20	14, 12, 11, 10	8 1/2
18	14, 12, 11, 10, 9	7 1/2	18	14, 12, 11, 10, 9	7 1/2
16	14, 12, 11, 10, 9, 8	6 1/2	16	14, 12, 11, 10, 9, 8	6 1/2
14	14, 12, 11, 10, 9, 8, 7	5 1/2	14	14, 12, 11, 10, 9, 8, 7	5 1/2
12	12, 10, 9, 8, 7, 6	4 1/2	12	12, 10, 9, 8, 7, 6	4 1/2
			10	10, 9, 8, 7, 6	3 1/2
UNFADING, SEMI-WEATHERING			UNFADING		
SEMI-WEATHERING			SEMI-WEATHERING		
SEMI-WEATHERING			SEMI-WEATHERING		
UNFADING, SEMI-WEATHERING			UNFADING		
UNFADING, SEMI-WEATHERING			UNFADING		
SEMI-WEATHERING			UNFADING		
UNFADING, SEMI-WEATHERING			UNFADING		
UNFADING			UNFADING		
SEMI-WEATHERING			UNFADING		
UNFADING			UNFADING		
4:12			4:12		
30-LB FELT			30-LB FELT		
			1:12		
			ICE AND WATER SHIELD		
X			X		
			X		
X			X		
			NAILABLE CONCRETE		
COPPER, TIN, LEAD, GALVANIZED IRON, ZINC			COPPER, LEAD, STAINLESS STEEL		
1928			1859		
			> 500,000		
NO			15		
			2		
X			X		
W. TATKO 518/642-0731			D. SHELDON, C. MARKCROW 800/343-1900		
			D. SHELDON, C. MARKCROW 800/343-1900		
			X		

# Synthetic Roof Components

1. COMPANY NAME	AIR VENT INC.	AIR VENT INC.
2. PRODUCT NAME	SHINGLE-VENT II	FILTER VENT
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
3.2 COMPONENT TYPE		
A. PANEL		
B. INDIVIDUAL COMPONENT	X	
4. AVAILABILITY RESTRICTED REGIONALLY(yes/no)	NO	
5. MATERIAL COMPOSITION	HIGH-DENSITY COPOLYMER	ALUMINUM
6. DIMENSIONS AND COVERAGE		
A. DIMENSIONS (inches x inches)	14 X 48	
B. EXPOSURE (inches)		5 X 96
C. HEADLAP (inches)		
D. PIECES PER ROOF SQUARE		
E. WEIGHT PER ROOF SQUARE (pounds)		
F. FASTENERS REQUIRED (nails, staples, or specify)	NAILS	
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS		
A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot)	3:12	3:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION		
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)		
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION		
8. APPROVED 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	X	X
4. OTHER (specify)		
9. YEAR PRODUCT FIRST SOLD	1988	1984
10. NUMBER OF SQUARES INSTALLED		
11. DISTRIBUTION		
A. DISTRIBUTORS (number handling product or no)	1,200	1,200
B. DIRECT (number of regional service locations or no)	1	1
12. TECHNICAL INFORMATION		
A. FIRE/WIND RATINGS		
1. FIRE RATING(S) [specify standard(s) and rating(s)]	CLASS C	CLASS A
2. WIND UPLIFT RATING(S) [specify standard(s) and rating(s)]	NONE	NONE
B. TEST RESULTS		
METHOD RESULTS		
METHOD RESULTS		
METHOD RESULTS		
METHOD RESULTS		
METHOD RESULTS		
13. ACCEPTED BY THE FOLLOWING CODES	BOCA (90-58), SBCCI (9528), METRO-DADE COUNTY, FL	SBCCI (9528), METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	S. DOUBET 800/247-8368	S. DOUBET 800/247-8368
14B. FOR TECHNICAL INFORMATION, CONTACT:	S. DOUBET 800/247-8368	S. DOUBET 800/247-8368
15. SEE APPENDIX IF CHECKED		

NA=not applicable

# UNDERLAYMENT SHEETS

## Underlayment Sheets

1. COMPANY NAME	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY
2. PRODUCT NAME OR DESCRIPTION	130 NO. 30 SHAKELINER	A130 TYPE 30 ASTM SHAKELINER	230 NO. 30 FELT
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. 15 SHAKE FELT 18 180 32	NO. 30, D 226 SHAKE FELT 18 180 48	NO. 30 36 216 38
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
7. YEAR PRODUCT FIRST SOLD	1988	1988	1958
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 + 26	1,000 + 26	1,000 + 26
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	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 226-94 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 2628-84 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I-Shingle Underlayment Type II-Heavy Duty Shingle Underlayment E. ASTM D 1970-80 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 X NA NA NA NA NA NA	NA NA X NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES		BOCA, ICBO, SBCCI	
13A. FOR SALES INFORMATION, CONTACT:	M. GRIFFIN 800/627-4098	M. GRIFFIN 800/627-4098	M. GRIFFIN 800/627-4098
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. COMPTON 800/627-4098	J. COMPTON 800/627-4098	J. COMPTON 800/627-4098
14. SEE APPENDIX IF CHECKED			

NA=not applicable



# Underlayment Sheets

AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY
A230 TYPE 30 ASTM FELT	310 NO. 15 FELT	315 NO. 15 FELT	A315 TYPE 15 ASTM FELT	410 NO. 15 FELT	415 STANDARD NO. 15 FELT
X	X	X	X	X	X
TYPE II (D 226)	NO. 15	NO. 15	TYPE I (D 226)	NO. 15	NO. 15
36	36	36	36	36	36
216	324	324	324	432	432
60	30	33	41	40	46
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	1958	1988	1988	1958
1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +
1,000 +	1,000 +	1,000 +	1,000 +	1,000 +	1,000 +
YES	NO	NO	YES	NO	NO
NA	NA	NA	NA	NA	NA
X			X		
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
BOCA, ICBO, SBCCI			BOCA, ICBO, SBCCI		
M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098	M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098	M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098	M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098	M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098	M. GRIFFIN 800/627-4098 J. COMPTON 800/627-4098

## Underlayment Sheets

1. COMPANY NAME	AMERICAN TAR COMPANY	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME OR DESCRIPTION	A415 TYPE 15 ASTM FELT	NO. 15 STANDARD SATURATED FELT	NO. 30 STANDARD SATURATED FELT
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 54	NO. 15  36 432	NO. 30  36 216
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	YES	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 X X X X X	X X X X X X X
7. YEAR PRODUCT FIRST SOLD	1988		
8. NUMBER OF SQUARES INSTALLED	1 MILLION +		
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	1,000 +		
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	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, 39.8 lb/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, 51.1 lb/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 226-94 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 2826-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-90 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    NA  NA  NA  NA	NA      NA  NA  NA  NA  X  NA	NA      NA  NA  NA  NA  X  NA
12. ACCEPTED BY THE FOLLOWING CODES	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI
13A. FOR SALES INFORMATION, CONTACT:	M. GRIFFIN 800/627-4098	604/484-8905	604/484-8905
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. COMPTON 800/627-4098	770/933-4479	770/933-4479
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BPCO
NO. 15 SPECIFICATION FELT	NO.30 SPECIFICATION FELT	DECKGUARD	NO. 43 BASE SHEET	SLATE/TILE UNDERLAYMENT	PROGARD WATERPROOFING MEMBRANE
X	X		X	X	
		X			X
NO. 15	NO. 30		NO. 43		
36	36		36		
432	216		234		
		MODIFIED BITUMEN 1 SBS SELF ADHERED 36 432			MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 195 65
YES	YES	YES	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		
					1991
YES	YES	YES	NO		
NA	NA	NA	NA	NA	NA
X	X	NA	NA	NA	NA
NA	NA	NA	YES	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	YES	NA	NA	YES
BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	
604/484-8905	604/484-8905	604/484-8905	604/484-8905	604/484-8905	BP SALES P. BACCHIONI 201/595-6695
770/933-4479	770/933-4479	770/933-4479	770/933-4479	770/933-4479	

# Underlayment Sheets

1. COMPANY NAME	BPCO	BPCO	BPCO
2. PRODUCT NAME OR DESCRIPTION	SMOOTH SURFACE	ESGARD NO. 15 PLAIN	ESGARD TYPE 15
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 224) 36 107 60.52	TYPE I (D 226) 36 432 52	TYPE 15 36 432 44.11
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)	YES	YES	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
7. YEAR PRODUCT FIRST SOLD	1926	1924	1986
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)			
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 226-94 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 2626-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-90 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)	X NA NA NA NA NA	NA X NA NA NA NA	NA NA NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT:	BP SALES P. BACCHIONI 201/595-6695	CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801
13B. FOR TECHNICAL INFORMATION, CONTACT:			
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

BPCO	BPCO	BPCO	BPCO	THE CELOTEX CORPORATION	THE CELOTEX CORPORATION
ESGARD TYPE 15 ALL PURPOSE	ESGARD SHINGLE BASE UNDERLAYMENT	ESGARD NO. 30 HEAVYWEIGHT	GRIPGARD	#15 ASPHALT PLAIN FELT	#30 ASPHALT PLAIN FELT
X	X	X		X	X
			X		
TYPE 15	TYPE 15	TYPE 30		TYPE I (D 4869)	TYPE II (D 4869)
36	36	36		36	36
432	432	216		432	216
38.4	27.11	47.4		34.6	43.2
			MODIFIED BITUMEN 1		
			MODIFIED BITUMEN SELF-ADHERED		
			36		
			195		
			73		
YES				NO	NO
X	X	X	X	X	X
		X		X	X
		X		X	X
		X		X	X
		X		X	X
		X		X	X
1986	1991	1924	1996		
				YES	YES
NA	NA	NA	NA	NA	NA
			NA		
NA	NA	NA	NA	NA	NA
			NA		
				X	X
NA	NA	NA	YES	NA	NA
CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801	BP SALES P. BACCHIONI 201/595-6695	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609



# Underlayment Sheets

1. COMPANY NAME	THE CELOTEX CORPORATION	THE CELOTEX CORPORATION	THE CELOTEX CORPORATION
2. PRODUCT NAME OR DESCRIPTION	ASTM TOUGH AND HEAVY TILE UNDERLAYMENT	ASTM/UL #30 PLAIN FELT	ASTM/UL #15 PLAIN FELT
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 II (D 249) 36 108 77.5	TYPE II (D 226) 36 216 56	TYPE I (D 226) 36 432 53.1
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)	YES	YES	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 X	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)	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 226-94 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 2628-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-90 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 D 249-89	NA    X  NA  NA  NA	NA    X  NA  NA
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES 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
13B. FOR TECHNICAL INFORMATION, CONTACT:			
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

THE CELOTEX CORPORATION	THE CELOTEX CORPORATION	THE CELOTEX CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	E.E.E. CORPORATION
VABORBAR ORGANIC BASE SHEET	CELOGUARD SHINGLE UNDERLAYMENT	TILE UNDERLAYMENT	WINTERGUARD WATER-PROOFING SHINGLE UNDERLAYMENT	WINTERGUARD W.S.U. SHORT ROLL	FLASHBAND
X	X	X	X	X	X
TYPE I (D 224)					
36 216/162 80/60		36 168 73			
	MODIFIED BITUMEN		MODIFIED ASPHALT	MODIFIED ASPHALT	MODIFIED BITUMEN
	MODIFIED ASPHALT SELF-ADHERING		MODIFIED ASPHALT SELF-ADHERED	MODIFIED ASPHALT SELF-ADHERED	MODIFIED ASPHALT SELF-ADHERED
	36		36	36	28
	100/200		195	97.5	77
	45/90		69	36	33
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
			1987	1991	1973
					3.5 MILLION
					127
NO	YES	YES	YES	YES	14
	NA		NA	NA	NA
X					
NA	NA	NA	NA	NA	NA
YES	NA	NA	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	YES	NA	YES	YES	
			WISCONSIN DILHR	WISCONSIN DILHR	ICBO
800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	LOCAL OFFICE 800/322-3060	LOCAL OFFICE 800/322-3060	H. LISS N. SHEARER
			X	X	

## Underlayment Sheets

1. COMPANY NAME	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION
2. PRODUCT NAME OR DESCRIPTION	F10 SHAKELINER	F12 SHAKELINER	F15 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			
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 ft² Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft² Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft² Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft² B. ASTM D 226-94 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 2626-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-80 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           X           NA           NA           NA
12. ACCEPTED BY THE FOLLOWING CODES			BOCA, ICBO, SBCCI
13A. FOR SALES INFORMATION, CONTACT:	M. GRIFFIN 800/627-4098	M. GRIFFIN 800/627-4098	M. GRIFFIN 800/627-4098
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. COMPTON 800/627-4098	J. COMPTON 800/627-4098	J. COMPTON 800/627-4098
14. SEE APPENDIX IF CHECKED			

NA=not applicable



## Underlayment Sheets

[illegible]

## Underlayment Sheets

[illegible]

NA=not applicable

# Underlayment Sheets

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
SHINGLE-MATE	WEATHER WATCH	SHINGLE UNDERLAYMENT	#15 PLAIN FELT	#15 PLAIN FELT UL	#30 PLAIN
X	X	X	X	X	X
COMPOSITE		NO. 15	NO. 15	TYPE I (D 226)	NO. 30
36		36	36	36	36
400		400	432	432	216
30					
	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING				
	36				
	162				
	70				
NO	NO	NO	NO	NO	NO
X	X	X	X	X	X
	X				
		X			
1984	1987	1987	1955		1955
NO	NO	YES	YES	YES	YES
NA	NA	NA	NA	NA	NA
NA	NA			X	
NA	NA	NA	NA	NA	NA
NA	NA				
NA	YES	NA	NA	NA	NA
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	219/473-4500 219/473-4500
X	X				

# Underlayment Sheets

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME OR DESCRIPTION	18" SHAKE FELT	EAVE & VALLEY SHIELD	EAVE & VALLEY SHIELD
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
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 18 108		
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 36 108	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 225
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
7. YEAR PRODUCT FIRST SOLD	1987	1990	1990
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)			
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 226-94 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 2626-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I-Shingle Underlayment Type II-Heavy Duty Shingle Underlayment E. ASTM D 1970-90 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 NA NA NA NA NA NA NA NA	NA NA NA NA NA NA NA NA NA NA NA
12. ACCEPTED BY THE FOLLOWING CODES			
13A. FOR SALES INFORMATION, CONTACT:	219/473-4500	219/473-4500	219/473-4500
13B. FOR TECHNICAL INFORMATION, CONTACT:	219/473-4500	219/473-4500	219/473-4500
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

GS ROOFING ROOFING PRODUCTS, CO.	GS ROOFING ROOFING PRODUCTS, CO.	GS ROOFING ROOFING PRODUCTS, CO.	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
STORMSHIELD	#15 PLAIN FELT-UL	#30 PLAIN FELT-UL	#402 SATELLITE TYPE 15	#404 SATELLITE TYPE 30	#405 SATELLITE TYPE 30 SHAKELINER
	X	X	X	X	X
X					
	TYPE I (D 266)	TYPE II (D 266)	TYPE I (D 226)	TYPE II (D 226)	TYPE II (D 226) SHAKE FELT
	36	36	36	36	18
	432	216	432	216	180
	54	54	55	55	45
MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 108 37					
NO	NO	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	X	X	X
BUR SYSTEMS					
			1957	1957	1957
300 + NO	300 + NO	300 + NO	100 +	100 +	100 +
YES	YES	YES			
NA	NA	NA	NA	NA	NA
NA	X	X	X	X	X
NA	NA	NA	NA	NA	NA
NA			X	X	X
	NA	NA	NA	NA	NA
			ICBO	ICBO	ICBO
214/580-5600	214/580-5600	214/580-5600	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191
214/580-5600	214/580-5600	214/580-5600	J. DECHANDT, S. WADDING	J. DECHANDT, S. WADDING	J. DECHANDT, S. WADDING
X	X	X			



# Underlayment Sheets

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	MONSEY/BAKOR	PABCO ROOFING PRODUCTS
2. PRODUCT NAME OR DESCRIPTION	ARCTIC SEAL #170	EAVE GUARD SHINGLE UNDERLAYMENT	TYPE 15
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)		D 1970 36 100/225 90/37	TYPE I (D 226) 36 432 55
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 SELF-ADHERING 36 225 90	
5. AVAILABILITY RESTRICTED REGIONALLY (yes/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 WATERPROOFING	X   X X X	X
7. YEAR PRODUCT FIRST SOLD	1993	1983	1985
8. NUMBER OF SQUARES INSTALLED		800,000 +	
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	100 +	200 + NO	
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/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, 39.8 lb/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, 51.1 lb/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 228-84 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 2626-84 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4889-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-90 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  YES	     NA  NA  NA  YES D 5147-91	NA     X  NA  NA  NA
12. ACCEPTED BY THE FOLLOWING CODES	ICBO		
13A. FOR SALES INFORMATION, CONTACT:	G. MALARKEY 800/545-1191	W. MULLEN 800/523-0268	H. BOUCHEE 206/272-0374
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. DECHANDT, S. WADDING	J. HUDSON 800/397-9598	S. DINWIDDIE 206/272-0374
14. SEE APPENDIX IF CHECKED			

NA=not applicable

# Underlayment Sheets

PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.
TYPE 30	NO. 15	SHAKE UNDERLAYMENT	MASTER SMOOTH	NAIL-FAST	NO. 30 UL
X	X	X	X	X	X
TYPE II (D 226) SHAKE FELT 18/36 180/216 49/59	TYPE I (D 4869) 36 432 40	SHAKE FELT 18 180 40	TYPE II (D 224) 36 108 55	D 224, D 2626 TILE UNDERLAYMENT 36 216 86	TYPE II (D 226) 36 216 57
		NO	NO	NO	NO
X X X X X X	X		X	X	X
				X	
		X		X	
1985	1984				
	YES	NO	NO		YES
NA	NA	NA		X	NA
			X		
		NA	NA	NA	
X					X
NA	NA	NA	NA	YES	NA
NA	YES	NA	NA	NA	
NA	NA	NA	NA	NA	NA
UBC					
ICBO	ICBO				METRO-DADE COUNTY, FL DISTRICT OFFICE
H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374	DISTRICT OFFICE TECHNICAL SERVICES 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICES 417/624-6644	DISTRICT OFFICE TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644

## Underlayment Sheets

1. COMPANY NAME	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.	TAMKO ROOFING PRODUCTS, INC.
2. PRODUCT NAME OR DESCRIPTION	NO. 30	NO. 30-18" FELT	NO. 15
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT			
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  36 200 40	NO. 30 SHAKE 18 108 22	NO. 15  36 400 35
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
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)	YES	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 ft² Type II-Minimum net mass per unit area of roofing, 54.6 lb/100 ft² Type III-Minimum net mass per unit area of roofing, 51.1lb/100 ft² Type IV-Minimum net mass per unit area of roofing, 39.8 lb/100 ft² B. ASTM D 226-94 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 2626-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I-Shingle Underlayment Type II-Heavy Duty Shingle Underlayment E. ASTM D 1970-80 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   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.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
MOISTURE GUARD PLUS	NO. 15 UL	NO. 150	SHINGLE FELT	#15 W	#30 W
	X	X	X	X	X
X					
	TYPE I (D 226)	NO. 15	TYPE I (D 4869)	TYPE I (D 4869)	NO. 30
	36	36	36	36	36
	432	432	432	432	216
	54	45	36	40	40
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	X	X
			X	X	X
			X	X	X
			X	X	X
			X	X	X
			1984	1988	1988
			3 MILLION	18 MILLION	3.5 MILLION
			200 ±	200 ±	200 ±
			NO	NO	NO
YES	YES	YES	YES	YES	YES
NA	NA	NA	NA	NA	NA
NA	X	NA			
NA	NA	NA	NA	NA	NA
NA	YES	NA	X	X	
YES	NA	NA	NA	NA	NA
DISTRICT OFFICE	METRO-DADE COUNTY, FL DISTRICT OFFICE	DISTRICT OFFICE	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
TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644	TECHNICAL SERVICES 417/624-6644			

# Underlayment Sheets

1. COMPANY NAME	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
2. PRODUCT NAME OR DESCRIPTION	#15 ASTM	#30 ASTM & GOLDLINE & U/L	#15 U/L
3. PRODUCT CATEGORY			
A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED	X	X	X
B. ORGANIC ASPHALT-SATURATED FELT, COATED			
C. ASPHALT FIBERGLASS FELT			
D. SPECIAL "ICE SHIELD" UNDERLAYMENT			
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C)			
1. TYPE (ASTM standard [specify] or generic)	TYPE I (D 226)	TYPE II (D 226)	TYPE I (D 226)
2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt)			
3. SHEET WIDTH (inches)	36	36	36
4. SIZE PER ROLL (sq. ft.)	432	216	432
5. WEIGHT PER ROLL (pounds)	50	57	57
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	X	X	X
B. FIBER-CEMENT ROOF COMPONENTS	X	X	X
C. CLAY TILE	X	X	X
D. CONCRETE TILE	X	X	X
E. METAL ROOF COMPONENTS	X	X	X
F. SLATE	X	X	X
G. WOOD SHAKES/SHINGLES			
H. OTHER (specify)			
7. YEAR PRODUCT FIRST SOLD	1978	1978	1978
8. NUMBER OF SQUARES INSTALLED	72 MILLION	18 MILLION	72 MILLION
9. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	200 ±	200 ±	200 ±
B. DIRECT (number of regional service locations or no)	NO	NO	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)	NA	NA	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 226-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA)	X	X	X
Type I—Commonly called No. 15 asphalt felt			
Type II—Commonly called No. 30 asphalt felt			
C. ASTM D 2626-94 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA)	NA	NA	NA
D. ASTM D 4869-88 STANDARD SPECIFICATION FOR ASPHALT ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA)	NA	NA	NA
Type I—Shingle Underlayment			
Type II—Heavy Duty Shingle Underlayment			
E. ASTM D 1970-90 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA)	NA	NA	NA
F. OTHER ASTM SPECIFICATION (specify)			
12. ACCEPTED BY THE FOLLOWING CODES		METRO.-DADE COUNTY, FL	
13A. FOR SALES INFORMATION, CONTACT:	B. LA RUE 800/749-3358	B. LA RUE 800/749-3358	B. LA RUE 800/749-3358
13B. FOR TECHNICAL INFORMATION, CONTACT:	D. CARDEN 800/749-3358	D. CARDEN 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.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	W.R. GRACE & CO.,- CONN.
#15	#30	#30 SPLIT FELT	#30 SHAKE LINER	PRO CHOICE IV	GRACE ICE & WATER SHIELD
X	X	X	X	X	X
TYPE I (D 4869)	TYPE II (D 4869)	NO. 30 SHAKE FELT	TYPE II (D 226) SHAKE FELT	TYPE 1 (D4869)	
36	36	18	18	36	
432	216	108	108	400	
44	44	22	29	30	
					MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 108/225 35/67
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
1982	1982	1989	1989	1994	1978
72 MILLION	18 MILLION	5 MILLION	1 MILLION	< 1 MILLION	
200 ±	200 ±	200 ±	200 ±	< 100	
NO	NO	NO	NO		
YES	YES	NO	NO	NO	YES
NA	NA	NA	NA	NA	
			X		
NA	NA	NA	NA	NA	
X	X			X	
NA	NA	NA	NA		YES
					ICBO, SBCCI, METRO-DADE COUNTY, FL
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	617/876-1400  617/876-1400

# Appendix

## ASPHALT SHINGLES

### Celotex Corporation

Ambassador Shake FRS Shingle holds two U.S. Patents for its new Tri-Laminate construction. (U.S. Patent Nos. 4,729,814; 4,775,440) Also, ColorScapes custom coloration technique has a U.S. Patent pending.

Because of their unique design, the exposed and headlap lengths of the Presidential Shake vary on application. The average exposed length is 8 1/4 inches; the average headlap length is 6 inches.

The "FRS" designation signifies that the shingle is fungus/algae resistant. Celotex FRS shingles are all manufactured to comply with the 3M Algae Block Copper Roofing Granule system. All FRS shingles provide additional warranty coverages against fungus/algae growth. See warranty for details.

Sol Seal/20 shingles can, upon request, be manufactured to comply with ASTM D225-86, Type III requirements.

The entire Celotex family of residential roofing shingles carries the Good Housekeeping Seal.

### CertainTeed Corporation

Classic Horizon, New Horizon, and Highlands Shingle shingles are constructed by a patented, unique overlay process that creates a dimensional look without lamination. Hallmark Shingle and Independence Shingle shingles are made using "Shingle" construction, which consists of full-size one-piece three-tab base shingles laminated with random tabs. Landmark shingles are made by laminating a "backer" strip to a "dragon's tooth"-shaped top shingle piece. Grand Manor Shingle and Carriage House Shingle shingles are made using "Super Shingle" construction, which consists of two full-size one-piece base shingles laminated together. In addition, Grand Manor is laminated with random tabs.

CertainTeed's shingle products are available in the following regions: East Coast (EC), Lake Central (LC), and North Central (NC). Following is a list of the regionally available shingles showing color availability in each region.

Product	Region	Colors
Grand Manor Shingle	Fiberglass	EC, LC, NC
Carriage House Shingle	Fiberglass	EC, LC, NC
Hallmark Shingle	Organic	LC, NC
Independence Shingle	Fiberglass	EC, LC, NC
Landmark XL	Fiberglass	EC, LC, NC
Landmark	Fiberglass	EC, LC, NC
Landmark 25	Fiberglass	LC, NC
Classic Horizon Shingle	Fiberglass	EC, LC, NC
New Horizon Shingle	Fiberglass	LC, NC

Highlands Shingle	Fiberglass	EC	9
Hearthstead	Organic	NC	8
Custom Sealdon 30	Organic	LC, NC	10, 13
XT 30	Fiberglass	EC, LC, NC	15
Sealdon 25	Organic	LC, NC	15
XT 25	Fiberglass	EC, LC, NC	14, 15, 14
FungusBuster 25	Fiberglass	EC	9
Custom Lok 25	Organic	LC, NC	9, 10
Solid Slab	Organic	LC, NC	8
CertainTeed 20	Fiberglass	EC	11

All Grand Manor and Carriage House shingles are fungus resistant and are available in all regions. In the East Coast region only, other fungus-resistant shingles are available: all FungusBuster 25 shingles and Highlands Shingle shingles, and as an optional feature with Landmark XL and Landmark shingles.

The following shingles are recommended for application on hip and ridge, using matching colors: Grand Manor/Carriage House Accessory (for Grand Manor and Carriage House); Hallmark Accessory (for Hallmark); Accessory (for Independence, Landmark XL, Landmark, Landmark 25, Classic Horizon, New Horizon, Highlands, and Hearthstead); Accessory or same as on roof (for CertainTeed XT-25, CertainTeed XT-30, CertainTeed 20, Sealdon 25, and Custom Sealdon 30); Sealdon 25 (for Custom Lok 25); Solid Slab (for Solid Slab); and FungusBuster 25 (for FungusBuster 25).

Refer to individual application instructions provided with the shingles for special instructions regarding ice-dam protection and steep slopes. WinterGuard Waterproofing Shingle Underlayment, a self-adhering roll product containing rubber-modified asphalt, is applied on low-slope decks for protection against wind-driven rain and at the eaves to prevent leakage from water back-up.

Shingles may be applied to minimum 3/8-inch-thick plywood, minimum 7/16-inch-thick nonveneer, or minimum nominal 1-inch-thick wood decks. The plywood or nonveneer decks must comply with APA specifications. Wood decking must not exceed maximum 6-inch nominal width. Shingles must not be applied to other deck types without written permission from CertainTeed.

CertainTeed fiberglass shingles meeting ASTM D3462 also comply with CSA Standard A123.5-M90. CertainTeed organic shingles meeting ASTM D225 also comply with CSA Standard A123.1-M1979.

CertainTeed shingles and roll products are sold through distributors. For sales information, contact the local plant office, as follows: East Coast Region (Oxford, N.C.) 919/693-1141 FAX 919/693-9400; Lake Central Region (Avery, Ohio) 419/499-9256 FAX 419-499-4074; North Central Region (Shakopee, Minn.) 612/445-6450 FAX 612/496-3850.

For technical information, call 800/322-3060 FAX 610/341-6212; for architectural support, call 800/233-8990 FAX 313/953-0855.

## Elk Corporation

Following are Elk Corporation's regional sales offices and their phone numbers: Northern, Hunt Valley, Md.: 800/944-4344; Southeast, Atlanta, Ga.: 800/945-5551; Southwest, Ennis, Texas: 800/288-6789; Western, Tempe, Ariz.: 800/879-4355; and Midwest, Indianapolis, Ind.: 800/226-6111.

Following is a table showing shingle color availability by region:

Color	Prestique Plus		Prestique I		Prestique II	
	West of Miss.	East of Miss.	West of Miss.	East of Miss.	West of Miss.	East of Miss.
Weathered-wood	X	X	X	X	X	X
Antique Slate	X	X	X	X	X	X
Hickory	X	X	X	X	X	X
Barkwood	X		X		X	X
Sablewood	X	X	X	X	X	X
Shakewood	X	X	X	X	X	X
Birchwood				X		X
Wedgewood		X		X		
Forest Green	X	X			X	
Aspen White					X	

## GAF Materials Corporation

GAF regional sales offices are: Dallas, Texas, 214/637-1060; Fontana, Calif., 909/360-4200; Naperville, Ill., 630/778-0390; North Brunswick, N.J., 908/297-0091; and Tampa, Fla., 813/248-6202. Regional technical services office is: Wayne, N.J., 800/ROOF-411.

Timberline shingles comply with ASTM D3462-93a in Dade County, Fla.

## GS Roofing Products Company, Inc.

For additional information on the complete GS line, call the sales office in your region: Western: 510/606-7434; Eastern: 214/580-5600. Corporate headquarters are in Irving, Texas, phone: 214/580-5600.

## FIBER-CEMENT ROOF COMPONENTS

### Maxitile, Inc.

Supertile can be used on pitches down to 1:12 on mobile home reroofs. Maxitile products can be used on pitches less than 3:12 if applied over an approved watertight system. Spaced sheathing approved but not recommended unless a strong permeable underlayment is used (e.g., foil).

## CLAY/CONCRETE TILE

### Celadon

A revolutionary kiln-fired clay shingle, Celadon Ceramic Slate combines the rugged beauty of natural quarried slate with the fired-in strength of ceramic tile. Unlike most synthetic slates, it is impervious to freeze-thaw cycles, heat, moisture and efflorescence, and its permanently fired-in color will never flake off. It exceeds all the requirements of ASTM C1167, Grade 1, Tile, and at less than 600 pounds per square, Celadon can be installed on conventional roofs, including truss construction with no need for reinforcements.

### Lifetile Corp.

MidSpan Battens are required at all pitches on Trulite flat tile.

### Ludowici Roof Tile, Inc.

Most products are available in noted and/or sanded textures. All architectural clay products have an inherent color shade range due to the firing process.

Relative to slope recommendations, two layers of a 30-lb. asphalt-impregnated felt paper is recommended in lieu of a 40-lb. coated base sheet above the standard minimum roof pitch. Double felts should be applied on rough surfaces, hips, valleys, and ridges. On pitches below the standard minimum, application of a built-up roof or CertainTeed WinterGuard waterproofing underlayment (or its equivalent) directly to the roof deck is recommended.

For metal decks, the head of the screw should be covered with mastic to prevent leakage. For plywood decks, choose a nail length that will assure slight penetration through the underside of the deck. For wood plank decks, use nails at least 1½ inches in length, but they must not penetrate the underside of the deck. For gypsum and nailable concrete decks, use nails long enough to penetrate ½ to ¾ inch in length, but the nails must not penetrate the underside of the deck. Deck material must be fresh when tiles are applied, because old decking may be so hard that nailing becomes extremely difficult. If the deck material is excessively hard, use a smooth-shank nail.

The year that products were first sold is estimated in some cases.

### M.C.A. Clay Roof Tile

Oriental tile is a low-profile "S"-shaped tile. Turret Tile are custom-size barrel tile that graduate in size to fit any

size and pitch of turret. The manufacturer designs each system according to the individual turret roof or fan-shaped application.

#### **Sandtoft Roof Tiles Ltd.**

County Pan tile has a gentle wave profile. Tiles are nailed and clipped over a wooden batten system. Goxhill handmade slab shingle tiles offer a rustic, weathered look. They can be used for ornamental patterns or conical towers. They are nailed to the deck or hung on a wooden battens system.

#### **Monier Inc.**

Bermuda Flat tiles and Barrel tile are mortar set only products.

Cedarlite requires one screw, or, two fasteners per tile.

#### **Stirling Building Products Limited**

The Stirling Building Products tile products are accepted by CSA-A720 Series MAI.

### **METAL ROOF COMPONENTS**

#### **Atas Aluminum Corp.**

Atas Aluminum Corporation produces a wide range of panel styles for the residential roofing market, from simulated roof tiles to conventional standing seam profiles. Most materials are offered in the fluoropolymer Kynar 500 coating system. More than twenty standard colors are offered in this system, which is designed to give long life with excellent chalk and fade resistance. Contact ATAS for more information and technical assistance.

#### **Berridge Manufacturing Company**

The Berridge Bermuda Roof Panel may be formed on site in continuous lengths using a Berridge portable roll former and Berridge coil material.

#### **Carter Holt Harvey Roofing, Inc.**

Wind-driven rain and static uplift tests have been conducted successfully at Construction Research Laboratories in Miami, Fla. for Metro-Dade County, Fla. approval. Copies of testing are available for Decra tile and shake roofing systems. Both systems are installed by approved applicators and carry a 50-year material warranty. Decra

roofing systems are guaranteed to withstand winds up to 120 mph when properly installed. For installations between 2½:12 and 3:12, underlayment is required.

Decra roofing systems are light enough to install directly over most existing roofs.

### **WOOD SHAKES AND SHINGLES**

#### **Tamark Manufacturing, LLC**

LifePine shakes are treated with CCA to .40 retention, the same as recommended for ground contact. This allows for a 50-year limited warranty against rot, decay, and termite attack. Pneumatic tools may be used for efficient installation. LifePine shakes are a sawn shake with a grooved exposed surface and, therefore, are a hybrid between a split and resawn shake and a 24-inch royal shingle.

In addition to CCA, LifePine shakes are treated with a permanent water repellant to inhibit splits. Prestained colors are available. Material is listed as fire-resistant.

### **SLATE**

#### **Evergreen Slate Company, Inc.**

On slopes of 8:12 to 4:12, specify 4-in. head laps and use one layer of W.R. Grace Ice and Water Shield for greater protection.

Evergreen Slate royal purple slate holds its color very well.

#### **Penn Big Bed Slate Co., Inc.**

Plywood decks are not recommended.

#### **Rising & Nelson Slate Co., Inc.**

Roofing slate is also available in lengths of 26 through 48 inches, in thickness of 1/2, 3/4, and 1 inch.

On slopes of less than 5:12, a 4-in. headlap should be considered.

#### **Vermont Structural Slate Company, Inc.**

Vermont Structural Slate Company, Inc. (VSS) offers a wide range of "Grade A" unfading roofing slates. VSS produces all standard sizes and thicknesses as well as custom pieces. All VSS material is of the highest quality.

VSS has reproduced *Slate Roofs*, originally published by the National Slate Association in 1926. Contact VSS for further information on the publication.

## **UNDERLAYMENT SHEETS**

### **GAF Materials Corporation**

Shingle Mate is a fiberglass composite sheet.

### **GS Roofing Products Company, Inc.**

For additional information on the complete GS line, call the sales office in your region: Western: 510/606-7434; Eastern: 214/580-5600. Corporate headquarters are in Irving, Texas, phone: 214/580-5600.

