



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 sixth 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

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

In addition, reference may be made to Factory Mutual (FM) approval for wind-uplift (see item 10 in the metal roof components section) or to FM approvals in general. These references are to the Factory Mutual System Approval Standard *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 406 <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.

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.

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.

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

Quantity	NRCA member	Nonmember	Order Quantity	Total Amount
1-3 copies	\$55 per copy	\$85 per copy	_____	\$_____
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26-35 copies	\$42 per copy	\$52 per copy	_____	\$_____
36-45 copies	\$40 per copy	\$50 per copy	_____	\$_____
Over 45 copies	\$37 per copy	\$47 per copy	_____	\$_____

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Company/organization

Mailing address

City/state/zip

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

☐ Charge the amount of \$_____ to:

☐ VISA ☐ MasterCard ☐ American Express ☐ Discover

Account no.

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.

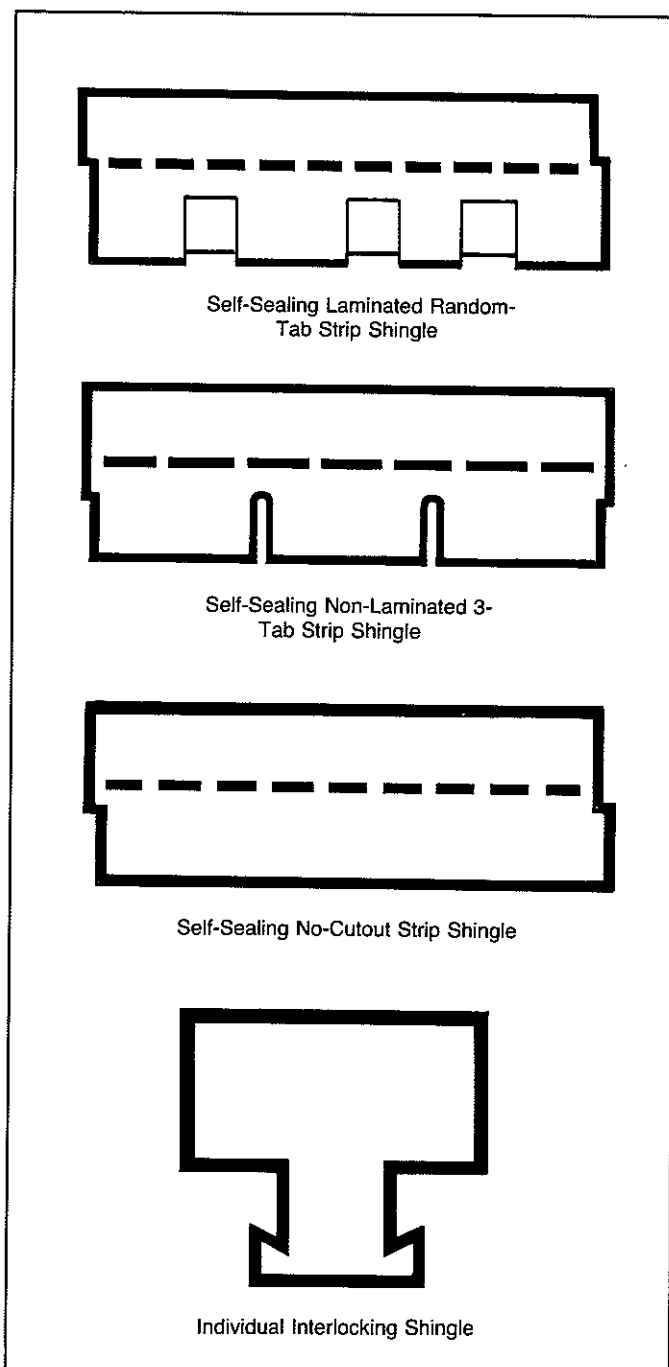


Figure 1 Types of Shingles

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)
3	Products covered
4	Scope of coverage
5	Length of coverage
6	Nature of remedy
7	Monetary limitations
8	Specific exclusions from coverage
9	Wind coverage/exclusion
10	Notification requirements
11	Determination of warranty applicability and coverage
13	Specific conditions that make warranty ineffective or void
14	Inclusion of consequential damages
15	Assignability
18	Additional or exclusive remedy
19	Special features/conditions
20	Executed by owner

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

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

In response to this information, NRCA endeavors to prepare an accurate, comprehensive, and objective listing for each warranty submitted by a manufacturer. Generally, a separate listing is generated for each document; sometimes, however, a manufacturer uses the same warranty document to cover different products, and, in

addition, the lengths of coverage, the cost to obtain it, the minimum charge, or the monetary limitations vary. In such cases, there may be more than one listing for a particular warranty reflecting these differences.

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

It should be noted that the name of the manufacturer as it appears in Item 1 Identity of Issuing Entity may not necessarily be identical to or even the same as the one listed in the Index or in the asphalt shingle sections. This is because the name appearing in the warranty section is the name of the entity *appearing in the warranty document itself*. For example, if a manufacturer changes its corporate name but does not change a warranty document that bore its original name, the original will appear in the warranty section. Or if one company purchases the assets of another, upon request NRCA simply moves the products of the acquired company under the name of the company that acquired it. In the warranty section, on the other hand, this may not be possible: until warranty documents bearing the new corporate name are provided NRCA, the name of the entity must remain as it appears in the documents. An explanation of such situations is sometimes provided in a footnote in the warranty section in order to clarify an apparent discrepancy in corporate names.

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

The warranty section of the *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.

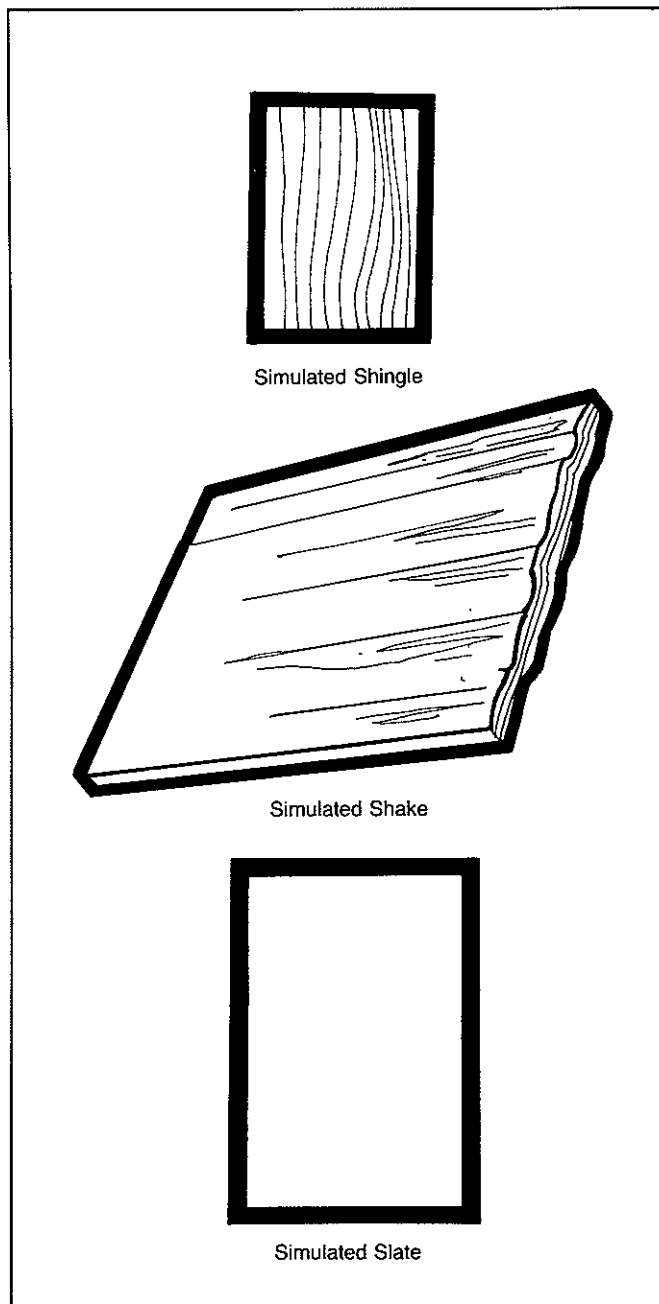


Figure 2 Types of Fiber-Cement Roof Components

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

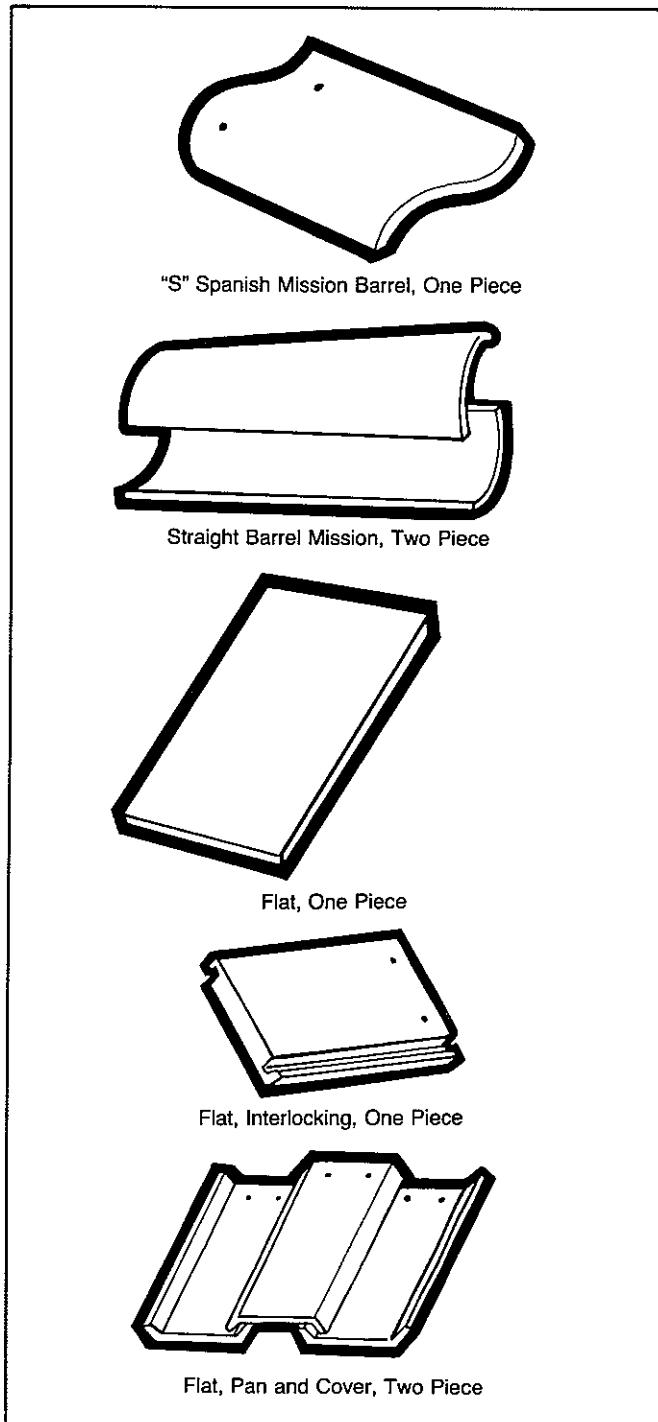


Figure 3 Types of Clay Tile

“special” application. The absence of data for a “special” application generally implies that none is permitted.

Item 8 Recommended Decks and Fastening Requirements

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

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

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

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

Metal 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 that are designed to resemble steep-slope residential products that

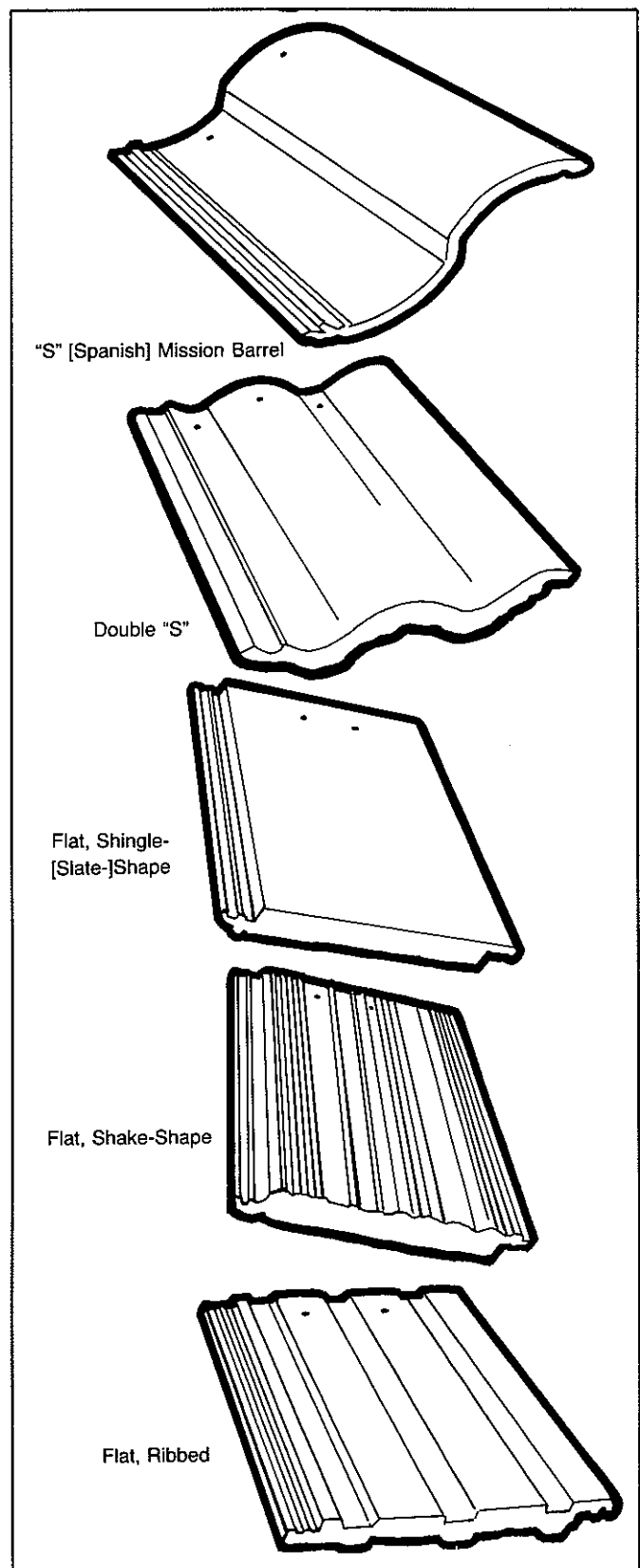


Figure 4 Types of Concrete Tile

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 mar-

keted 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
AIR VENT INC. 3000 West Commerce St. Dallas, TX 75212 800/AIR-VENT FAX 800/635-7006									194	
ALCO-NVC, INC. P.O. Box 14001 Detroit, MI 48214 800/323-0029 FAX 313/331-4726										196
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, A Subdivision of Fields Corporation 2240 Taylor Way Tacoma, WA 98421 800/627-4098 FAX 253/624-4120 E-mail:sales@fieldscorp.com										196
ANDEK CORPORATION P.O. Box 392 Moorestown, NJ 08057 888/88ANDEK FAX 888/44ANDEK										199
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								199
AUBURN TILE INC. 545 W. Main St., P.O. Box 10 Ontario, CA 91762 909/984-2841 FAX 909/984-1517					140					
BERRIDGE MANUFACTURING CO. 1720 Maury St. Houston, TX 77026 713/223-4971 FAX 713/236-9422						159				
BIRD INCORPORATED 1077 Pleasant St. Norwood, MA 02062 800/BIRD-INC FAX 781/762-6586	37/75	98								

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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
BPCO P.O. Box 3177 Wayne, NJ 07474-3177 201/595-6695 FAX 201/595-6717	39/77	98								201
BUCKINGHAM-VIRGINIA SLATE CORP. P.O. Box 8 Arvonia, VA 23004 804/581-1131 OR 800/235-8921 FAX 804/581-1130								190		
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						
CELOTEX CORPORATION P.O. Box 31602 Tampa, FL 33631 813/873-1700 FAX 813/873-4080	41/77	100								202
CERTAINTED CORPORATION/ ROOFING PRODUCTS GROUP P.O. Box 1100 1400 Union Meeting Rd. Blue Bell, PA 19422 800/322-3060 FAX 610/341-6212	44/79									204
CLASSIC PRODUCTS, INC. P.O. Box 701 Piqua, OH 45356 800/543-8938 FAX 513/773-9261						163				
DANIEL PLATT LTD. c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, 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						165				
ELK 14643 Dallas Parkway, Suite 1000 Dallas, TX 75240 972/851-0400 FAX 972/851-0401	48/82	100								
ETERNIT, INC. 210 Corporate Dr. Berks Corporate Center Reading, PA 19605 610/926-0100 OR 800/233-3155 FAX 610/926-9232			118							

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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
EVERGREEN SLATE COMPANY, INC. 68 E. Potter Ave. P.O. Box 248 Granville, NY 12832 518/642-2530 FAX 518/642-9313								190		
FIELDS CORPORATION 2240 Taylor Way Tacoma, WA 98421 253/627-4098 FAX 253/383-2181										205
GAF MATERIALS CORP. 1361 Alps Road Wayne, NJ 07470 973/628-3000	49/83	102	119							207
GEORGIA-PACIFIC CORPORATION 4300 Wildwood Pkwy., Suite 300 Atlanta, GA 30339 770/221-2441 FAX 770/221-8149	51/83	104								
GERARD ROOFING TECHNOLOGIES 955 Columbia Street Brea, CA 92821-2923 714/529-0407 OR 800/23-ROOFS FAX 714/529-6643						166				
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	53/85									208
GREEN RIVER LOG SALES P.O. Box 515 Sumas, WA 98295 800/663-8707 FAX 604/820-3872							182			
GS ROOFING PRODUCTS CO. INC. 5525 MacArthur Blvd. Suite 900 Irving, TX 75038 972/580-5600 FAX 972/580-5692 Web Site:www.gsroof.com	57/87	104								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								210
HILLTOP SLATE INC. P.O. Box 201 Middle Granville, NY 12849 518/642-2270 FAX 518/642-1220								191		

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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
HUGUENOT FENAL c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, 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	59/88	108								
JAMES HARDIE BUILDING PRODUCTS, INC. 26300 La Alameda, Suite 250 Mission Viejo, CA 92691 714/348-1800 FAX 714/367-0185			120							
LOUISIANA-PACIFIC, INC. 5 Centerpointe Dr., Suite 500 Lake Oswego, OR 97035 503/624-9004 FAX 503/624-9088 E-mail: Jonathon.Rogers@LPCorp.com			121							
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			121							
MBCI P.O. Box 38217 Houston, TX 77238 281/445-8555 FAX 281/445-1791						167				
M.C.A. CLAY ROOF TILE 1985 Sampson Ave. Corona, CA 91719 909/736-9590 OR 800/736-MCA1 FAX 909/736-6052				135						
MCELROY METAL CO. 1500 Hamilton Road Bossier City, LA 71111 318/747-8000 FAX 318/747-8029						168				
METAL SALES MANUFACTURING CORPORATION 7800 State Road 60 Sellersburg, IN 47172 812/246-0819 FAX 812/246-0829						169				

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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
MET-TILE INC. P.O. Box 4268 Ontario, CA 91761 909/947-0311 FAX 909/947-1510 Web Site:www.met-tile.com/roof E-Mail:mettile1@cyberg8t.com						172				
MONIER LIFETILE 1 Park Plaza, Suite 900 Irvine, CA 92614 714/756-1605 FAX 714/756-2401					140					
MONSEY BAKOR Cold Stream Road Kimberton, PA 19442 610/933-8888 FAX 610/933-4598										211
NEWFOUNDLAND SLATE INC. 8800 Sheppard Ave. East Scarborough, ON Canada M1B 5R4 416/281-8181 OR 800/975-2835 FAX 416/281-8842								191		
OWENS CORNING One Owens Corning Pkwy. Toledo, OH 43659 419/248-8000 FAX 419/248-7354	63/90	110								211
PABCO ROOFING MANUFACTURERS 1718 Thorne Rd. Tacoma, WA 98421 206/272-0374 FAX 206/572-4997	67/92	112								211
PENN BIG BED SLATE CO., INC. 8450 Brown St./ P.O. Box 184 Slatington, PA 18080 610/767-4601 FAX 610/767-9252								191		
PERFECTION: THE VERY BEST IN BUILDING PRODUCTS P.O. Box 1524 Piqua, OH 45356 888/788-2427 FAX 937/778-5116 E-mail:classprod@lts.net						172				
PETERSEN ALUMINUM CORP. 1005 Tonne Rd. Elk Grove Village, IL 60007 800/323-1960 FAX 800/722-7150						173				
RE-CON BUILDING PRODUCTS P.O. Box 1094 Sumas, WA 98295 800/347-3373 FAX 800/700-7121			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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	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
SANDTOFT ROOF TILES c/o NORTHERN ROOF TILE SALES 4408 Milestrip Rd., Suite 266 Blasdell, NY 14219 905/627-4035 FAX 905/627-9648				137						
SANTAFÉ TILE CORPORATION 10302 NW South River Dr., Bay #16 Medley, FL 33178 305/885-9002 FAX 305/888-0050				137						
SPRINGHOUSE INC. 97 Thames Rd., East Exeter, ON Canada N0M 1S3 519/235-1566 FAX 519/235-2852						177				
STAVE LAKE CEDAR MILLS Box 730 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							185			
STIRLING BUILDING PRODUCTS LIMITED Box 278, 281 Alliance Rd. Milton, ON Canada L9T 4N9 800/521-5832 FAX 905/878-8334					149					
TAMKO ROOFING PRODUCTS INC. P.O. Box 1404 220 W. 4th St. Joplin, MO 64801 417/624-6644 FAX 417/624-8935	69/93	112								212
TAMARK MANUFACTURING, LLC P.O. Box 1386 508 Stella Ave. Savannah, GA 31402 912/232-0786 FAX 912/232-7826							186			
TC MIRADRI 3500 Parkway Lane, Suite 500 Norcross, GA 30092 770/447-6272 FAX 770/972-1829 E-mail: W.Harvie@Miradri.com										214
ULTRA SEAM INC. P.O. Box 710 Morganfield, KY 42437 800/874-7326 FAX 248/960-0460						177				
U.S. TILE COMPANY A Division of Boral Industries, Inc. 909 Railroad St./P.O. Box 1509 Corona, CA 91718-1509 909/737-0200 FAX 909/734-9591				138						
VINCENT METAL GOODS P.O. Box 360 Minneapolis, MN 55440 612/717-9000 FAX 612/717-7122						179				

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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
WALDUN FOREST PRODUCTS PARTNERSHIP Box 96 Sumas, WA 98295 800/4-WALDUN FAX 206/337-2831							187			
WARRIOR ROOFING MANUFACTURING, INC. P.O. Box 40185 Tuscaloosa, AL 35404 205/553-1734 FAX 205/553-1755										215
WESTILE 8311 West Carder Court Littleton, CO 80125 303/791-1700 FAX 303/791-9906					150					
W.R. GRACE & CO.-CONN. 62 Whitmore Ave. Cambridge, MA 02140 617/876-1400 FAX 617/498-2643										217

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 40	PINNACLE 30	PINNACLE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 10 NATIONAL	FIBERGLASS LAMINATED CERAMIC 10 NATIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 1/2 X 36 3/8 5 1/2 7 72 4	12 1/2 X 36 3/8 5 1/2 7 72 3	12 X 36 5 7 80 4
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/8 X 39 3/8 5 5/8 7 1/2 66 4	13 1/8 X 39 3/8 5 5/8 7 1/2 66 3	
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, STORM-MASTER DG OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	> 300 < 10	> 300 < 10	> 100 < 10
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Asphalt Shingles Part 1

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
STORMMASTER LM SBS MODIFIED	STORMMASTER ST SBS MODIFIED	GLASSMASTER 25	GLASSMASTER 25 ALPINE	GLASSMASTER 25 MATTERHORN	GLASSMASTER 20
FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL
	X	X	X	X	X
X					
NO	NO	YES	NO	NO	YES
12 X 36 5 7 80 4	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3
NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY
4:12 15-LB. FELT	2:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
4:12 15-LB. FELT STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELT + H19S, STORMMASTER DG OPTIONAL
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
VENTED-R NAILBASE	VENTED-R NAILBASE	VENTED-R NAILBASE	VENTED-R NAILBASE	VENTED-R NAILBASE	VENTED-R NAILBASE
ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479
X	X	X	X	X	X

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	GLASSMASTER T-LOK	WEATHERMASTER ST	WEATHERMASTER T-LOK
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 2 REGIONAL	ORGANIC NONLAMINATED CERAMIC 11 REGIONAL	ORGANIC NONLAMINATED CERAMIC 2 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	21 1/2 X 21 12 X 12 SHINGLE NA 99 3	12 X 36 5 7 80 3	21 1/2 X 21 12 X 12 SHINGLE NA 99 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT STORMMASTER DG OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	4:12 15-LB. FELT 2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE	X X X VENTED-R NAILBASE
10. YEAR PRODUCT FIRST SOLD			
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Asphalt Shingles Part 1

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BIRD INC.	BIRD INC.	BIRD INC.	BIRD INC.
CHALET	PLAINSMAN	ROOFSCAPE PLUS	ARCHITECT 90	WOODSCAPE	MARK 80
FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC
10 NATIONAL	7 REGIONAL	10 REGIONAL	10 REGIONAL	10 REGIONAL	6 REGIONAL
X	X				
		X	X	X	X
NO	YES	YES	YES	YES	YES
12 X 36	12 X 36	12 X 36	12 X 36	12 X 36	12 X 36
5 5/16	5	5	5	5	5
7	7	2	2	2	2
78	80	80	80	78	80
3	3	4	4	3	4
		330	290	250	285
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 SHINGLE UNDERLAYMENT	4:12 SHINGLE UNDERLAYMENT	4:12 SHINGLE UNDERLAYMENT	4:12 SHINGLE UNDERLAYMENT
2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	2:12 2 15-LB. FELTS, STORM- MASTER DG OPTIONAL	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
X	X				
X	X				
VENTED-R NAILBASE	VENTED-R NAILBASE				
		1994	1979	1987	1981
		CALL BIRD INC.	CALL BIRD INC.	CALL BIRD INC.	CALL BIRD INC.
ATLAS REGIONAL SALES OFFICES 770/933-4479	ATLAS REGIONAL SALES OFFICES 770/933-4479	R.C. MALOOF, PRESIDENT C. PATENAUE	R.C. MALOOF, PRESIDENT C. PATENAUE	R.C. MALOOF, PRESIDENT C. PATENAUE	R.C. MALOOF, PRESIDENT C. PATENAUE
X	X				

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	BIRD INC.	BIRD INC.	BIRD INC.
2. PRODUCT NAME	FIRELINE	SEAL KING	JET 25
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 14 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	12 X 36 5 2 80 4 285	12 X 36 5 2 80 3 232	12 X 36 5 2 80 3 232
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)			
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 SHINGLE UNDERLAYMENT 2:12 30-LB. FELT OR ICE & WATER BARRIER	4:12 SHINGLE UNDERLAYMENT 2:12 30-LB. FELT OR ICE & WATER BARRIER	4:12 SHINGLE UNDERLAYMENT 2:12 30-LB. FELT OR ICE & WATER BARRIER
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1981	1986	1992
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	CALL BIRD INC.	CALL BIRD INC.	CALL BIRD INC.
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	R.C. MALOOF, PRESIDENT C. PATENAUE	R.C. MALOOF, PRESIDENT C. PATENAUE	R.C. MALOOF, PRESIDENT C. PATENAUE
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

BIRD INC.	BPCO	BPCO	BPCO	BPCO	BPCO
WIND SEAL 80	SUPER ECLIPSE	ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK
FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5	ORGANIC NONLAMINATED CERAMIC 5	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9 REGIONAL	ORGANIC NONLAMINATED CERAMIC 5 REGIONAL
X				X	
	X	X	X		X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 3 212	12 X 36 5 2 80 4 310	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
	REGIONALLY	REGIONALLY	NO	NO	NO
4:12 SHINGLE UNDERLAYMENT	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 2 15-LB. FELTS OR PROGARD	
X	X X	X X	X X	X X	X X
1983	1994	1994	1979	1989	1981
CALL BIRD INC.					
R.C. MALOOF, PRESIDENT C. PATENAUDE	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	BPCO	BPCO
2. PRODUCT NAME	ESGARD PRO STANDARD	RAMPART	CITADEL
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 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 15 REGIONAL	ORGANIC 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)	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 3 222	13 1/4 X 39 3/8 5 5/8 2 65 3 230	13 1/4 X 39 3/8 5 5/8 2 65 3 215
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 15-LB. FELT 2:12 2 15-LB. FELTS OR PROGARD	4:12 15-LB. FELT 2:12 2 15-LB. FELTS OR PROGARD	4:12 15-LB. FELT 2:12 2 15-LB. FELTS OR PROGARD
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	1992	1970	1960
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES	P. BACCHIONI 201/595-6695 SALES
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
FRS AMBASSADOR SHAKE SHINGLE	FRS PRESIDENTIAL SHAKE SHINGLE	PRESIDENTIAL SHAKE SHINGLE	FRS DIMENSIONAL /40 SHAKE SHINGLE	DIMENSIONAL /40 SHAKE SHINGLE	FRS DIMENSIONAL /30 SHAKE SHINGLE
FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC
5 NATIONAL	10 REGIONAL	10 NATIONAL	7 REGIONAL	7 NATIONAL	6 REGIONAL
			X	X	X
NO	NO	NO	YES	NO	YES
13 1/4 X 38 3/4	14 1/4 X 40	14 1/4 X 40	13 1/4 X 38.75	13 1/4 X 38.75	13 1/4 X 38.75
5 5/8	8 1/4	8 1/4	5 5/8	5 5/8	5 5/8
7 5/8	6	6	7 5/8	7 5/8	7 5/8
72	90	90	66	66	66
6	5	5	4	4	4
390 APPROX.	360 APPROX.	360 APPROX.	340 APPROX.	340 APPROX.	300 APPROX.
				12 X 36	
				5 5/8	
				7	
				80	
				4	
				340 APPROX.	
NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	NATIONALLY	REGIONALLY
4:12 NO. 15-LB. FELT	4:12 NO. 15-LB. FELT	4:12 NO. 15-LB. FELT	4:12 NO. 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
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 /30 SHAKE SHINGLE	FRS DIMENSIONAL /25 SHAKE SHINGLE	DIMENSIONAL /25 SHAKE SHINGLE
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 12 NATIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 13 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 66 4 300 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 64 3 240 APPROX.	13 1/4 X 38.75 5 5/8 7 5/8 64 3 240 APPROX.
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 4 300 APPROX.		12 X 36 5 7 80 4 240 APPROX.
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	REGIONALLY	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT 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	CELOTEX CORPORATION
FRS STORM KING/25	STORM KING/25	BIG D STORM KING/25 METRIC	FRS STANDARD STRIP/20	STANDARD STRIP/20	BIG D STRIP/20 METRIC
FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 19 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 21 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL
X	X	X	X	X	X
YES	NO	YES	YES	NO	YES
12 X 36 5 2 80 3 240 APPROX.	12 X 36 5 2 80 3 240 APPROX.	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 1/4 X 36 5 1/8 2 78 3 240 APPROX.			12 1/4 X 36 5 1/8 2 78 3 205 APPROX.	
NO	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 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	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
2. PRODUCT NAME	SOL SEAL/20 ORGANIC	GRAND MANOR SHANGLE	CARRIAGE HOUSE SHANGLE
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)	6/6	7/8	6
E. COLOR AVAILABILITY (regional/national)	REGIONAL	NATIONAL	NATIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP	X		
B. SELF-SEALING 4-TAB STRIP			X
C. SELF-SEALING RANDOM-TAB STRIP		X	
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	NO
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	12 X 36	18 X 36	18 X 36
2. EXPOSURE (inches)	5	8	8
3. HEADLAP (inches)	2	2	2
4. SHINGLES PER ROOF SQUARE	80	50	50
5. BUNDLES PER SQUARE	3	5	5
6. WEIGHT PER ROOF SQUARE (pounds)	210 APPROX.	430	355
6B. DIMENSIONS AND COVERAGE: SIZE 2			
1. SHINGLE DIMENSIONS (inches x inches)	12 1/4 X 36		
2. EXPOSURE (inches)	5 1/8		
3. HEADLAP (inches)	2		
4. SHINGLES PER ROOF SQUARE	78		
5. BUNDLES PER SQUARE	3		
6. WEIGHT PER ROOF SQUARE (pounds)	210 APPROX.		
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 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	2 15-LB. FELTS OR ICE & WATER BARR.	WINTERGUARD	WINTERGUARD
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD	X	X	X
C. WAFERBOARD		X	X
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD		1991	1993
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
13A. FOR SALES INFORMATION, CONTACT:	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)	LOCAL OFFICE (SEE APPENDIX) 800/322-3060 (SEE APPENDIX)
13B. FOR TECHNICAL INFORMATION, CONTACT:			
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
HALLMARK SHANGLE	INDEPENDENCE SHANGLE	LANDMARK 40	LANDMARK 30	LANDMARK 25	CLASSIC HORIZON SHANGLE
ORGANIC LAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9/8/9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9/9/11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9/9/7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS OVERLAY CERAMIC 8 REGIONAL
					X
X	X	X	X	X	
YES	YES	YES	YES	YES	YES
12 X 36	12 X 36	12 X 36	12 X 36	12 X 36	12 X 36
5	5	5	5	5	5
2	2	2	2	2	2
80	80	80	80	80	80
5	4	4	4	3	3
325	300	300	265	245	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
1965	1976	1996	1996	1997	1982
NO	NO	NO	NO	YES 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	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
2. PRODUCT NAME	NEW HORIZON SHANGLE	HIGHLANDS-AR SHANGLE	HEARTHSTEAD
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 OVERLAY CERAMIC 10/8 REGIONAL	FIBERGLASS OVERLAY CERAMIC 9 REGIONAL	ORGANIC 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	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 3 245/250	12 X 36 5 2 80 3 240	12 X 36 5 2 80 3 225
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 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	1996	1997	1985
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	YES NO	YES 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

CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION	CERTAINEED CORPORATION
CUSTOM SEALDON 30	CERTAINEED XT30	CERTAINEED XT25	FUNGUSBUSTER 25	SEALDON 25	CERTAINEED 20
ORGANIC NONLAMINATED CERAMIC 10/11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11/13/10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11/10/10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
12 X 36 5 2 80 3 250	12 X 36 5 2 80 3 250/245	12 X 36 5 2 80 3 230/225	12 X 36 5 2 80 3 225	12 X 36 5 2 80 3 225	12 X 36 5 2 80 3 200
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
1991	1997	1985	1984	1950s	1970s
NO	YES 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	CERTAINTED CORPORATION	CERTAINTED CORPORATION	ELK
2. PRODUCT NAME	SOLID SLAB	CUSTOM LOK 25	PRESTIQUE PLUS HIGH DEFINITION
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 9/10 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8/8/8 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)	12 X 36 5 2 80 3 225	20 13/16 X 21 1/2 14 2 99 3 250	13 1/4 X 39 3/8 5 5/8 64 4 > 375
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT 2:12 WINTERGUARD	4:12 NO.-15 FELT 	4:12 15-LB. FELT 2:12 2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X 	X X X 	X X CHIPBOARD
10. YEAR PRODUCT FIRST SOLD	1980s	1960s	1985
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)	REG. SALES OFFICE TX: 800/288-6789 CA: 800/355-4968 AL: 800/945-5545
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Asphalt Shingles Part 1

ELK	ELK	ELK	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
PRESTIQUE I HIGH DEFINITION	PRESTIQUE II RAISED PROFILE	CAPSTONE	TIMBERLINE ULTRA	ORIGINAL TIMBERLINE	TIMBERLINE 25
FIBERGLASS LAMINATED CERAMIC 8/8/9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8/8/9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 3 NATIONAL	FIBERGLASS LAMINATED CERAMIC COATED 8/11 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 8/11 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 8/11 REGIONAL
X	X	X	X	X	X
NO	NO	NO	NO	NO	NO
13 1/4 X 39 3/8 5 5/8	13 1/4 X 38 3/4 5 5/8	12 1/8 X 39 1/2 5	12 X 36 5 2 80 4	12 X 36 5 2 80 4	12 X 36 15/16 5 2 78 3
64 4 > 300	66 3	72 4 > 300	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
REGIONALLY	REGIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY
4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT	4:12 15-LB. FELT
2:12 2 15-LB. FELTS	2:12 2 15-LB. FELTS	2:12 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
CHIPBOARD 1978	CHIPBOARD 1982	CHIPBOARD 1992	1990	1980	1995
NO	NO	NO			
REG. SALES OFFICE TX: 800/288-6789 CA: 800/355-4968 AL: 800/945-5545 X	REG. SALES OFFICE TX: 800/288-6789 CA: 800/355-4968 AL: 800/945-5545 X	REG. SALES OFFICE TX: 800/288-6789 CA: 800/355-4968 AL: 800/945-5545 X	GAF REGIONAL OFFICE 800/ROOF-411 X	GAF REGIONAL OFFICE 800/ROOF-411 X	GAF REGIONAL OFFICE 800/ROOF-411 X

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
2. PRODUCT NAME	SLATELINE	MARQUIS WEATHER MAX	ROYAL SOVEREIGN
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 COATED 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 5/7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 6/11 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	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)	17 X 40 7 1/2 2 48 4	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)			13 1/4 X 39 3/8 5 5/8 2 65 3
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	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 2:12-4:12 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	1988	1991	1984
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	GEORGIA-PACIFIC
SENTINEL	DUBL-COVERAGE TITE-ON	STONEHENGE	GRAND SEQUOIA	FLORIDIAN	TOUGH-GLASS
FIBERGLASS NONLAMINATED CERAMIC COATED 6/10 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 7 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC COATED 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC COATED 5 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL
X					X
		X	X	X	
	X				
NO	YES	YES	YES	YES	YES
12 X 36 5 2 80 3	20 13/16 X 21 1/2 6 100 3	12 X 36 5 2 80 3	40 X 17 5 7 72 5	12 X 36 5 2 80 3	12 X 36 5 7 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			
NO	NO	REGIONALLY	REGIONALLY	REGIONALLY	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 TYPE-15 FELT
2:12-4:12 2 15-LB. FELTS			2:12-4:12 2 15-LB. FELTS		2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION
X X	X X	X X	X X	X X	X X X
1980	1984	1995	1996	1995	1979
					128
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	800/839-2588 770/933-4479
X	X	X	X	X	

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC
2. PRODUCT NAME	TOUGH-GLASS PLUS	PREMIUM 25	T-LOCK 20
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	ORGANIC NONLAMINATED CERAMIC 2 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	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 7 80 3	12 X 36 5 7 80 3	21 X 21 1/2 12 X 12 SHINGLE NA 99 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 TYPE-15 FELT 2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	4:12 TYPE-15 FELT 2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	4:12 TYPE-15 FELT 2:12 2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1985	1987	1981
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	128	128	128
13A. FOR SALES INFORMATION, CONTACT:	800/839-2588	800/839-2588	800/839-2588
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

GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
TOUGH-GLASS T-LOCK	ASPHALT 20	SUMMIT III	SUMMIT	PREMIER SHADOW	PREMIER SHAKE 25
FIBERGLASS NONLAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC
2	7	8	8	5	8
REGIONAL	REGIONAL	NATIONAL	NATIONAL	REGIONAL	REGIONAL
	X				
X				X	X
YES	YES	NO	NO	NO	NO
21 X 21 1/2	12 X 36	12 1/2 X 36 3/8	12 1/2 X 36 3/8	12 X 36	12 X 36
12 X 12 SHINGLE	5	5 1/2	5 1/2	5	5
NA	7	7	7	6	NA
99	80	72	72	80	80
3	3	4	3	3	3
				250	
		13 1/8 X 39 3/8	13 1/8 X 39 3/8		
		5 5/8	5 5/8		
		7 1/2	7 1/2		
		66	66		
		4	3		
REGIONALLY	REGIONALLY	NATIONALLY	NATIONALLY	NO	NO
4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 TYPE-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
2:12	2:12	2:12	2:12		2:12
2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION	2 TYPE-15 FELTS OR ICE & WATER SHIELD OPTION		2 NO.-15 FELTS
X	X	X	X	X	X
X	X	X	X		
X	X	X	X		
1981	1978	1986	1986	1995	1968
128	128	128	128		
800/839-2588	800/839-2588	800/839-2588	800/839-2588	800/456-5649	800/456-5649
770/933-4479	770/933-4479	770/933-4479	770/933-4479	800/456-5649	800/456-5649

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	PROSEAL 30	SUPER SEAL	COPPER MOUNTAIN SHADOW
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	ORGANIC NONLAMINATED CERAMIC 14 REGIONAL	ORGANIC LAMINATED CERAMIC 5 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	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 6 80 3 250	12 X 36 5 6 80 3 250	12 X 36 5 6 80 4 290
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	NO	NATIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT 2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT 2:12 2 NO.-15 FELTS	4:12 NO.-15 FELT
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	1958	1997
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
NEW ENGLAND SLATE	PROSEAL 30 RX	SUPER SEAL RX	WINDLOCK	FRENCH ROYALE	KLIP-LOK
ORGANIC NONLAMINATED CERAMIC 6 NATIONAL	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	ORGANIC NONLAMINATED CERAMIC 10 REGIONAL	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL
X	X	X			
NO	NO	NO	X NO	X NO	X NO
12 X 36 5 6 80 3 260	12 X 36 5 6 80 3 250	12 X 36 5 6 80 3 225	19 1/2 X 21 5/8 100 3	19 1/2 X 21 5/8 100 3	16 X 16 82 2
NATIONALLY	NO	NO	NO	NO	NO
4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT
X	X	X	X	X	X
1996	1997	1997	1955	1995	1941
800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649
800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649	800/456-5649

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	FRENCH ESTATE	GLOBE 25	GLOBE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 8 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)	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)	16 X 16 5 6 82 2	12 X 36 5 6 80 3	12 X 36 5 6 80 3
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	NO	NO
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NO.-15 FELT	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	1989	1989
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/456-5649	800/456-5649	800/456-5649
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.
FIRE-HALT	FIRESCREEN PLUS 2000	FIRESCREEN	HIGH SIERRA	ARCHITECT 80/ ESTATE	ULTIMATE 30
FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13/10/12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13/10/12 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11/6/8 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 13 REGIONAL
	X	X			X
X			X	X	
NO	NO	NO	NO	NO	YES
	12 X 36	12 X 36			13 1/4 X 39 3/8
	5	5			5 5/8
	2	2			7 5/8
	80	80			64
	3	3			3
					234
13 1/4 X 39 3/8	13 1/4 X 39 3/8	13 1/4 X 39 3/8	13 1/4 X 39 3/8	13 1/4 X 39 3/8	
5 5/8	5 5/8	5 5/8	5 5/8	5 5/8	
2	7 5/8	7 5/8	2	2	
64	64	64	64	64	
3	3	3	4	4	
240	230	200	330	300	
NATIONALLY	NATIONALLY	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	2:12 2 NO.-15 FELTS	2:12 2 NO.-15 FELTS
X	X	X	X	X	X
MILLIONS	100,000+	MILLIONS	MILLIONS	MILLIONS	100,000+
1000+ NO	1000+ NO	1000+ NO	1000+ NO	1000+ NO	1000+ NO.-15 FELT
972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600	972/580-5604 510/606-7434 972/580-5600
X	X	X	X	X	X

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME	#202 DURA-SEAL	#204 DURA-SEAL	#210 PRO-25 SBS MODIFIED
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 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	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)	13 1/4 X 39 3/8 5 5/8 2 66 3 205	13 1/4 X 39 3/8 5 5/8 2 66 3 240	13 1/4 X 39 3/8 5 5/8 2 66 3 210
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NATIONALLY	NATIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15- OR 30-LB. FELT 2:12 2 15-LB. 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. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1977	1978	1987
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	200+	200+	200+
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER
14. SEE APPENDIX IF CHECKED			

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	IKO MANUFACTURING INC.
#230 ALASKAN SBS MODIFIED	#240 HURRICANE SBS MODIFIED ALGAE RESISTANT	#271 HIGHLANDER-25	#272 LEGACY-30 SBS MODIFIED	#272 LEGACY-30 SBS MODIFIED ALGAE RESISTANT	CATHEDRAL 25
FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	POLYGLASS LAMINATED CERAMIC 8 NATIONAL	POLYGLASS LAMINATED COPPER 8 NATIONAL	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL
X	X				X
		X	X	X	
NO	NO	NO	NO	NO	
13 1/4 X 39 3/8 5 5/8 2 66 3 235	13 1/4 X 39 3/8 5 5/8 2 66 3 235	13 1/4 X 39 5 5/8 2 66 3 245	13 1/4 X 40 5 5/8 2 66 4 275	13 1/4 X 40 5 5/8 2 66 4 275	12 1/4 X 36 5 1/8 2 78 3 235
NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY
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-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 NO.-15 FELTS OR ICE & WATER SHIELD
X X X	X X X	X X X	X X X	X X X	X X
1986	1993	1997	1997	1997	1996
200+	200+	200+	200+	200+	NO
G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	G. MALARKEY 800/545-1191 J. DECHANDT P. RIESEBIETER	800/323-7171 800/323-7171

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
2. PRODUCT NAME	CHATEAU ULTRA SHADOW	RENAISSANCE XL	CROWNE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC LAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 8 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4/5 REGIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	14 1/4 X 39 3/16 6 1/8 2 60 4 300	13 1/4 X 39 3/8 5 5/8 2 65 3 249	13 1/4 X 39 3/8 5 5/8 2 65 3 254
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			12 1/4 X 36 5 1/8 2 78 3 254
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 NA 2:12 2 NO.-15 FELTS OR ICE & WATER SHIELD	4:12 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. WAFERBOARD D. OTHER (specify)	X X	X X	X X
10. YEAR PRODUCT FIRST SOLD	1978	1992	1995
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	NO	NO	NO
13A. FOR SALES INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/323-7171	800/323-7171	800/323-7171
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
ROYAL VICTORIAN	SKYLINE 25	ARISTOCRAT	IMPERIAL GENTRY	IMPERIAL SEAL/20	IMPERIAL GLASS/20
ORGANIC NONLAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	ORGANIC NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC
5 REGIONAL	5 REGIONAL	13 REGIONAL	12 REGIONAL	6 REGIONAL	6 REGIONAL
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
13 1/4 X 39 3/8	13 1/4 X 39 3/8	13 1/4 X 39 3/8	12 1/4 X 36	12 1/4 X 36	12 1/4 X 36
5 5/8	5 5/8	5 5/8	5 1/8	5 1/8	5 1/8
2	2	2	2	2	2
65	65	65	78	78	78
3	3	3	3	3	3
241	229	240	235	216	207
		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 15-LB. FELT	4:12 NA	4:12 15-LB. FELT
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
1992	1978	1967	1987	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	ARMOUR LOCK	NEW ENGLANDER	ARMOUR PLUS 20
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	ORGANIC NONLAMINATED CERAMIC 7 REGIONAL	ORGANIC NONLAMINATED CERAMIC 4 REGIONAL	ORGANIC 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	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)	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	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 NA 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. WAFERBOARD D. OTHER (specify)	X X 	X X 	X X
10. YEAR PRODUCT FIRST SOLD	1959	1982	1979
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.	OWENS CORNING	OWENS CORNING	OWENS CORNING
ULTRA LOCK 25	DYNASTY ULTRA SHADOW	CAMBRIDGE ULTRA	OAKRIDGE SHADOW 40 YR. ARCHITECTURAL	OAKRIDGE SHADOW AR 40 YR. ARCHITECTURAL	OAKRIDGE PLUS 30 YR. ARCHITECTURAL
ORGANIC NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 NATIONAL	FIBERGLASS LAMINATED CERAMIC 9 NATIONAL	FIBERGLASS LAMINATED CERAMIC 9 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 REGIONAL	FIBERGLASS LAMINATED CERAMIC 10 REGIONAL
X	X	X	X	X	X
YES	NO	NO	NO	YES	NO
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	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4	13 1/4 X 39 3/8 5 5/8 7 5/8 64 4
21 1/2 X 21 1/2 14 2 98 3 243		13 7/8 X 40 7/8 5 7/8 2 60 3 247			
REGIONALLY	NATIONALLY	NATIONALLY	NATIONALLY	REGIONALLY	NATIONALLY
4:12 NA	4:12 NO.-15 FELT	4:12 NO.-15 FELT	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES
	2:12 2 NO.-15 FELTS OR ICE&WAT. PROTECTOR	2:12 2 NO.-15 FELTS OR ICE&WAT. PROTECTOR	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK
X X	X X	X X	X	X	X
1990	1995	1994	1987	1987	1987
			MILLIONS		MILLIONS
NO	NO	NO			
800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/323-7171 800/323-7171	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING
			X	X	X

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	OWENS CORNING	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME	OAKRIDGE PLUS AR 30 YR. ARCHITECTURAL	PROMINENCE 30 YR. ARCHITECTURAL	PROMINENCE AR 30 YR. ARCHITECTURAL
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	FIBERGLASS	FIBERGLASS	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)	LAMINATED	NONLAMINATED	NONLAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	6	12	8
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	X		
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	13 1/4 X 39 3/8	12 X 36	12 X 36
2. EXPOSURE (inches)	5 5/8	5	5
3. HEADLAP (inches)	7 5/8	7	7
4. SHINGLES PER ROOF SQUARE	64	80	80
5. BUNDLES PER SQUARE	4	3	3
6. WEIGHT PER ROOF SQUARE (pounds)			
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)	4:12	4:12	4:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES
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 & WEATHERLOCK	2 NO.-15 FELTS & WEATHERLOCK	2 NO.-15 FELTS & WEATHERLOCK
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD			
C. WAFERBOARD			
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1987	1995	1995
11. NUMBER OF SQUARES INSTALLED		MILLIONS	
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			
B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/GET-PINK	800/GET-PINK	800/GET-PINK
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/ROOFING	800/ROOFING	800/ROOFING
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Asphalt Shingles Part 1

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
OAKRIDGE II 25 YR. ARCHITECTURAL	OAKRIDGE II AR 25 YR. ARCHITECTURAL	GLASLOCK 25 YR. INTERLOCKING	SUPREME SHADOW 25 YR. TRADITIONAL	SUPREME 25 YR. TRADITIONAL	SUPREME AR 25 YR. TRADITIONAL
FIBERGLASS LAMINATED CERAMIC	FIBERGLASS LAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC
10 REGIONAL	7 REGIONAL	8 REGIONAL	8 REGIONAL	29 REGIONAL	9 REGIONAL
			X	X	X
X	X				
		X			
NO	YES	YES	NO	NO	YES
13 1/4 X 38 3/4 5 5/8 7 5/8 66 3	13 1/4 X 38 3/4 5 5/8 7 5/8 66 3	21 1/16 X 21 9/16 96 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3	12 X 36 5 7 80 3
NATIONALLY	REGIONALLY	NO	NO	NO	NO
4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES
2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	4:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK	2:12 2 NO.-15 FELTS & WEATHERLOCK
X	X	X	X	X	X
1987	1987	1977	1990	1978	1986
MILLIONS		MILLIONS	MILLIONS	MILLIONS	
800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING	800/GET-PINK 800/ROOFING
X	X	X	X	X	X

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	OWENS CORNING	OWENS CORNING	OWENS CORNING
2. PRODUCT NAME	SUPREME (METRIC) 25 YR. TRADITIONAL	CLASSIC 20 YR. TRADITIONAL	CLASSIC AR 20 YR. TRADITIONAL
3. PRODUCT DESCRIPTION			
A. FELT MATERIAL (organic/fiberglass)	FIBERGLASS	FIBERGLASS	FIBERGLASS
B. CONSTRUCTION (laminated/nonlaminated)	NONLAMINATED	NONLAMINATED	NONLAMINATED
C. GRANULE COMPOSITION	CERAMIC	CERAMIC	CERAMIC
D. NUMBER OF COLORS AVAILABLE (/ marks number by region)	10	29	8
E. COLOR AVAILABILITY (regional/national)	REGIONAL	REGIONAL	REGIONAL
4. SHINGLE TYPE			
A. SELF-SEALING 3-TAB STRIP	X	X	X
B. SELF-SEALING 4-TAB STRIP			
C. SELF-SEALING RANDOM-TAB STRIP			
D. SELF-SEALING NO CUTOUT			
E. INDIVIDUAL INTERLOCKING			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	YES
6A. DIMENSIONS AND COVERAGE: SIZE 1			
1. SHINGLE DIMENSIONS (inches x inches)	13 1/8 X 39 3/8	12 X 36	12 X 36
2. EXPOSURE (inches)	5 9/16	5	5
3. HEADLAP (inches)	7 9/16	7	7
4. SHINGLES PER ROOF SQUARE	66	80	80
5. BUNDLES PER SQUARE	3	3	3
6. WEIGHT PER ROOF SQUARE (pounds)			
6B. DIMENSIONS AND COVERAGE: SIZE 2			
1. SHINGLE DIMENSIONS (inches x inches)			
2. EXPOSURE (inches)			
3. HEADLAP (inches)			
4. SHINGLES PER ROOF SQUARE			
5. BUNDLES PER SQUARE			
6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	REGIONALLY	NO	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	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES	NO.-15 FELT; WEATHER-LOCK OPT. AT EAVES
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 & WEATHERLOCK	2 NO.-15 FELTS & WEATHERLOCK	2 NO.-15 FELTS & WEATHERLOCK
9. RECOMMENDED DECK MATERIAL			
A. PLYWOOD/WOOD	X	X	X
B. ORIENTED-STRAND BOARD			
C. WAFERBOARD			
D. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1986	1959	1986
11. NUMBER OF SQUARES INSTALLED	MILLIONS	MILLIONS	
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			
B. DIRECT (number of regional service locations or no)			
13A. FOR SALES INFORMATION, CONTACT:	800/GET-PINK	800/GET-PINK	800/GET-PINK
13B. FOR TECHNICAL INFORMATION, CONTACT:	800/ROOFING	800/ROOFING	800/ROOFING
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Asphalt Shingles Part 1

OWENS CORNING	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
CLASSIC (METRIC) 20 YR. TRADITIONAL	PABCO PREMIER 25 YEAR	PABCO PREMIER 30 YEAR	PABCO PREMIER 40 YEAR	PABCO SG-25	PABCO GG-20
FIBERGLASS NONLAMINATED CERAMIC 11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11 REGIONAL	FIBERGLASS LAMINATED CERAMIC 11 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL	FIBERGLASS NONLAMINATED CERAMIC 12 REGIONAL
X				X	X
	X	X	X		
YES	NO	NO	NO	NO	NO
13 1/8 X 39 3/8 5 9/16 7 9/16 66 3	13 1/4 X 40 5 5/8 7 5/8 64 4 256/260	13 1/4 X 40 5 5/8 7 5/8 64 4 290	13 1/4 X 40 5 5/8 7 5/8 64 4 320	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 236	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 210
REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY	REGIONALLY
4:12 NO.-15 FELT; WEATHER- LOCK OPT. AT EAVES	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 NO.-15 FELTS & WEATHERLOCK	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
1987	1991	1991	1991	1984	1984
MILLIONS	5 MILLION	1 MILLION	1 MILLION	5 MILLION	5 MILLION
	100 NO	100 NO	100 NO	100	100
800/GET-PINK 800/ROOFING	H. BOUCHEE 206/272-0374 S. DINWIDDIE 606/858-5453	H. BOUCHEE 206/272-0374 S. DINWIDDIE 606/858-5453	H. BOUCHEE 206/272-0374 S. DINWIDDIE 606/858-5453	H. BOUCHEE 206/272-0374 S. DINWIDDIE 606/858-5453	H. BOUCHEE 206/272-0374 S. DINWIDDIE 606/858-5453
X					

Asphalt Shingles Part 1: General Information

1. COMPANY NAME	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	MONARCH	PREMIER 25 ALGAE BLOCK	SG-25 ALGAE BLOCK
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS NONLAMINATED CERAMIC 5 REGIONAL	FIBERGLASS LAMINATED CERAMIC 6 REGIONAL	FIBERGLASS 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)			
6A. DIMENSIONS AND COVERAGE: SIZE 1 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)	13 1/4 X 39 3/8 5 5/8 7 5/8 65 3 245	13 1/4 X 40 5 5/8 7 5/8 64 4 260	13 X 39 3/8 5 5/8 7 5/8 65 3 230
6B. DIMENSIONS AND COVERAGE: SIZE 2 1. SHINGLE DIMENSIONS (inches x inches) 2. EXPOSURE (inches) 3. HEADLAP (inches) 4. SHINGLES PER ROOF SQUARE 5. BUNDLES PER SQUARE 6. WEIGHT PER ROOF SQUARE (pounds)			
7. HIP/RIDGE SHINGLES AVAILABLE (nationally, regionally, no)	NO	REGIONALLY	REGIONALLY
8. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	4:12 15-LB. FELT 2:12 2 15-LB. FELTS	4:12 15-LB. FELT 2:12 2 15-LB. FELTS	4:12 15-LB. FELT 2:12 2 15-LB. FELTS
9. RECOMMENDED DECK MATERIAL A. PLYWOOD/WOOD B. ORIENTED-STRAND BOARD C. WAFERBOARD D. OTHER (specify)	X X X	X X X	X X X
10. YEAR PRODUCT FIRST SOLD	1996	1995	1995
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	100	100	100
13A. FOR SALES INFORMATION, CONTACT:	H. BOUCHEE 206/272-0374	H. BOUCHEE 206/272-0374	H. BOUCHEE 206/272-0374
13B. FOR TECHNICAL INFORMATION, CONTACT:	S. DINWIDDIE 606/858-5453	S. DINWIDDIE 606/858-5453	S. DINWIDDIE 606/858-5453
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
ORGANIC-25 SEAL-DOWN	GLASS-SEAL	GLASS-SEAL AR	ELITE GLASS SEAL	ELITE GLASS SEAL AR	TAM-LOC GLASS
ORGANIC NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED COPPER/CERAMIC	FIBERGLASS NONLAMINATED CERAMIC	FIBERGLASS NONLAMINATED COPPER/CERAMIC	FIBERGLASS NONLAMINATED CERAMIC
14 REGIONAL	14 REGIONAL	6 REGIONAL	10 REGIONAL	5 REGIONAL	14 REGIONAL
X	X	X	X	X	
					X
YES	NO	YES	NO	YES	YES
12 X 36	12 X 36	12 X 36	12 X 36	12 X 36	21 X 21 1/2
5	5	5	5	5	
2	2	2	2	2	
80	80	80	80	80	99
3	3	3	3	3	3
REGIONALLY	REGIONALLY	NO	REGIONALLY	NO	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 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
1946	1979	1983	1984	1985	1984
>6,000 NO	>6,000 NO	>2,000 NO	>6,000 NO	>2,000 NO	>3,000 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 25	HERITAGE 25 AR	HERITAGE 30
3. PRODUCT DESCRIPTION A. FELT MATERIAL (organic/fiberglass) B. CONSTRUCTION (laminated/nonlaminated) C. GRANULE COMPOSITION D. NUMBER OF COLORS AVAILABLE (/ marks number by region) E. COLOR AVAILABILITY (regional/national)	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL	FIBERGLASS LAMINATED COPPER/CERAMIC 4 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 NATIONAL
4. SHINGLE TYPE A. SELF-SEALING 3-TAB STRIP B. SELF-SEALING 4-TAB STRIP C. SELF-SEALING RANDOM-TAB STRIP D. SELF-SEALING NO CUTOUT E. INDIVIDUAL INTERLOCKING	X	X	X
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	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 15/16 5 2 78 3	12 X 36 15/16 5 2 78 3	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. WAFERBOARD D. OTHER (specify)	X	X	X
10. YEAR PRODUCT FIRST SOLD	1985	1992	1989
11. NUMBER OF SQUARES INSTALLED			
12. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	>6,000 NO	>2,000 NO	>6,000 NO
13A. FOR SALES INFORMATION, CONTACT:	DISTRICT OFFICE	DISTRICT OFFICE	DISTRICT OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644	TECHNICAL SERVICE 417/624-6644
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Asphalt Shingles Part 1

TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
HERITAGE 30 AR	HERITAGE 40	HERITAGE 40 AR	HERITAGE M25	HERITAGE M30	HERITAGE M40
FIBERGLASS LAMINATED COPPER/CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 7 REGIONAL	FIBERGLASS LAMINATED CERAMIC 4 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL	FIBERGLASS LAMINATED CERAMIC 8 REGIONAL
X	X	X	X	X	X
YES	NO	YES	YES	YES	YES
12 X 36 5 2 80 4	12 X 36 5 2 80 4	12 X 36 5 2 80 4	38 3/4 X 13 1/4 5 5/8 2 1/4 66 3	39 3/8 X 13 1/4 5 5/8 2 1/4 64 4	39 3/8 X 13 1/4 5 5/8 2 1/4 64 4
NO	NATIONALLY	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 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	2:12 2 NO.-15 FELTS, MOISTURE GUARD PLUS OPTIONAL
X	X	X	X	X	X
1992	1992	1988	1995	1995	1995
>2,000 NO	3,000	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	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 40	PINNACLE 30
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	NO
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME	STORMMASTER LM SBS MODIFIED	STORMMASTER ST SBS MODIFIED
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	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
GLASSMASTER 25	GLASSMASTER 25 ALPINE	GLASSMASTER 25 MATTERHORN	GLASSMASTER 20	GLASSMASTER T-LOK	WEATHERMASTER ST
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	X
NA	NA	NA	NA	NA	NA
NO	NO	NO	NO	NO	NA

ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	BIRD INC.	BIRD INC.	BIRD INC.
WEATHERMASTER T-LOK	CHALET	PLAINS MAN	ROOFSCAPE PLUS	ARCHITECT 90	WOODSCAPE
ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X X	X	X	X	X	X
X	NA	NA	NA	NA	NA
NA					
	X	X	X	X	X
NA	NO	NO	YES	YES	YES

Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	BIRD INC.	BIRD INC.
2. PRODUCT NAME	MARK 80	FIRELINE
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

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

NA=not applicable

Asphalt Shingles Part 2

BIRD INC.	BPCO	BPCO	BPCO	BPCO	BPCO
WIND SEAL 80	SUPER ECLIPSE	ECLIPSE	ROOFMASTER	ESGARD TRADITION	TITE-LOK
FIBERGLASS	ORGANIC	ORGANIC	ORGANIC	ORGANIC	ORGANIC
CLASS A	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA					
	X	X	X	X	X
	NA	NA	NA	NA	NA
X					
NO	NA	NA	NA	NA	NA

BPCO	BPCO	BPCO	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
ESGARD PRO STANDARD	RAMPART	CITADEL	FRS AMBASSADOR SHAKE SHINGLE	FRS PRESIDENTIAL SHAKE SHINGLE	PRESIDENTIAL SHAKE SHINGLE
ORGANIC	ORGANIC	ORGANIC	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS C YES	CLASS C YES	CLASS C YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
			NA	NA	NA
X	X	X			
NA	NA	NA	X	X	X
NA	NA	NA	YES	YES	YES
			X	X	X

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	CELOTEX CORPORATION	CELOTEX CORPORATION
2. PRODUCT NAME	FRS DIMENSIONAL /30 SHAKE SHINGLE FIBERGLASS	DIMENSIONAL /30 SHAKE SHINGLE FIBERGLASS
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 D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
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
FRS DIMENSIONAL /25 SHAKE SHINGLE FIBERGLASS	DIMENSIONAL /25 SHAKE SHINGLE FIBERGLASS	FRS STORM KING/25 FIBERGLASS	STORM KING/25 FIBERGLASS	BIG D STORM KING/25 METRIC FIBERGLASS	FRS STANDARD STRIP/20 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	NO
X	X	X	X	X	X

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

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
2. PRODUCT NAME	LANDMARK 30	LANDMARK 25
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	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
CLASSIC HORIZON SHANGLE	NEW HORIZON SHANGLE	HIGHLANDS-AR SHANGLE	HEARTHSTEAD	CUSTOM SEALDON 30	CERTAINTEED XT30
FIBERGLASS	FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC	FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	X	X	NA
X	X	X	NA	NA	X
YES	YES	YES	NA	NA	YES
X	X	X	X	X	X

CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION	CERTAINTEED CORPORATION
CERTAINTEED XT25	FUNGUSBUSTER 25	SEALDON 25	CERTAINTEED 20	SOLID SLAB	CUSTOM LOK 25
FIBERGLASS	FIBERGLASS	ORGANIC	FIBERGLASS	ORGANIC	ORGANIC
CLASS A YES	CLASS A YES	CLASS C YES	CLASS A YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA	NA	X	NA	X	X
X	X	NA	X	NA	NA
YES	YES	NA	YES	NA	NA
X	X	X	X	X	X

Asphalt Shingles Part 2: Technical Data

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

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

NA=not applicable

Asphalt Shingles Part 2

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
TIMBERLINE ULTRA	ORIGINAL TIMBERLINE	TIMBERLINE 25	MARQUIS	ROYAL SOVEREIGN	SENTINEL
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	NO	YES	YES	NO
X	X	X	X	X	X

GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GEORGIA-PACIFIC
DUBL-COVERAGE TITE-ON	STONEHENGE	SLATELINE	GRAND SEQUOIA	FLORIDIAN	TOUGH-GLASS
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	YES	NO
X	X	X	X	X	

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	GEORGIA-PACIFIC	GEORGIA-PACIFIC
2. PRODUCT NAME	T-LOCK 20	TOUGH-GLASS T-LOCK
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 D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)		NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles	X	
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	
Type I Self-sealing		X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NA	NO
5. SEE APPENDIX IF CHECKED		

NA=not applicable

Asphalt Shingles Part 2

GEORGIA-PACIFIC	GEORGIA-PACIFIC	GEORGIA-PACIFIC	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
ASPHALT 20	SUMMIT III	SUMMIT	PREMIER SHADOW	PREMIER SHAKE	PROSEAL 30
ORGANIC	FIBERGLASS	FIBERGLASS	ORGANIC	ORGANIC	ORGANIC
CLASS C YES	CLASS A YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA	NA	NA	X		
				X	X
			NA	NA	NA
X	X	X			
NO	YES	NO	NA	NA	NA

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
SUPER SEAL	COPPER MOUNTAIN SHADOW	NEW ENGLAND SLATE	PROSEAL 30 RX	SUPER SEAL RX	WINDLOCK
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	X	X	X	X	NA
NA					NA

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME	FRENCH ESTATE	GLOBE 25
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 D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)		X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears	X	
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Uniform or nonuniform thickness shingles of any style		NA
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style	X	
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	NA	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NA	
5. SEE APPENDIX IF CHECKED		

NA=not applicable

Asphalt Shingles Part 2

GLOBE BUILDING MATERIALS, INC.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO.	GS ROOFING PRODUCTS CO. INC.
GLOBE 30	FIRE-HALT	FIRESCREEN PLUS 2000	FIRESCREEN	HIGH SIERRA	ARCHITECT 80/ ESTATE
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	NO	YES	YES
	X	X	X	X	X

GS ROOFING PRODUCTS CO.	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
ULTIMATE 30	#202 DURA-SEAL	#204 DURA-SEAL	#210 PRO-25 SBS MODIFIED	#230 ALASKAN SBS MODIFIED	#240 HURRICANE SBS MODIFIED ALGAE RESISTANT FIBERGLASS
	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	YES	YES	YES	YES	YES
X					

Asphalt Shingles Part 2: Technical Data

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME	#271 HIGHLANDER-25	#272 LEGACY-30 SBS MODIFIED
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)		
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

1. COMPANY NAME	HERBERT MALARKEY ROOFING COMPANY	IKO MANUFACTURING INC.
2. PRODUCT NAME	#272 LEGACY-30 SBS MODIFIED ALGAE RESISTANT	CATHEDRAL 25 FIBERGLASS
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
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA) Type I Shingles with a factory-applied adhesive (self-sealing) Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		X
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Uniform or nonuniform thickness shingles of any style Type II Thick butt, square tab, strip shingles Type III Uniform or nonuniform thickness shingles of any style	NA	NA
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA) Type I Self-sealing Type II Non-self-sealing	X	X
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		

NA=not applicable

Asphalt Shingles Part 2

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
CHATEAU ULTRA SHADOW	RENAISSANCE XL	CROWNE 30	ROYAL VICTORIAN	SKYLINE 25	ARISTOCRAT
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

IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.	IKO MANUFACTURING INC.
IMPERIAL GENTRY	IMPERIAL SEAL/20	IMPERIAL GLASS/20	ARMOUR LOCK	NEW ENGLANDER	ARMOUR PLUS 20
FIBERGLASS	ORGANIC	FIBERGLASS	ORGANIC	ORGANIC	ORGANIC
CLASS A YES	CLASS C YES	CLASS A YES	CLASS C YES	CLASS C YES	CLASS C YES
X	X	X	X	X	X
NA	X	NA	X	X	X
X	NA	X	NA	NA	NA
YES	NA	YES	NA	NA	NA

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	IKO MANUFACTURING INC.	OWENS CORNING
2. PRODUCT NAME	CAMBRIDGE ULTRA	OAKRIDGE SHADOW 40 YR ARCHITECTURAL FIBERGLASS
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 D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)	X	X
Type I Self-sealing		
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	YES	YES
5. SEE APPENDIX IF CHECKED		X

NA=not applicable

Asphalt Shingles Part 2

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
OAKRIDGE SHADOW AR 40 YR ARCHITECTURAL FIBERGLASS	OAKRIDGE PLUS 30 YR ARCHITECTURAL FIBERGLASS	OAKRIDGE PLUS AR 30 YR ARCHITECTURAL FIBERGLASS	PROMINENCE 30 YR ARCHITECTURAL FIBERGLASS	PROMINENCE AR 30 YR ARCHITECTURAL FIBERGLASS	OAKRIDGE II 25 YR ARCHITECTURAL FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
YES	YES	YES	YES	YES	
X	X	X	X	X	X

OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING	OWENS CORNING
OAKRIDGE II AR 25 YR ARCHITECTURAL FIBERGLASS	GLASLOCK 25 YR INTERLOCKING FIBERGLASS	SUPREME SHADOW 25 YR TRADITIONAL FIBERGLASS	SUPREME 25 YR TRADITIONAL FIBERGLASS	SUPREME AR 25 YR TRADITIONAL FIBERGLASS	SUPREME (METRIC) 25 YR TRADITIONAL FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
	YES	YES	YES	YES	YES
X	X	X	X	X	X

Asphalt Shingles Part 2: Technical Data

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

1. COMPANY NAME	OWENS CORNING	PABCO ROOFING PRODUCTS
2. PRODUCT NAME	CLASSIC (METRIC) 20 YR TRADITIONAL FIBERGLASS	PABCO PREMIER 25 YEAR FIBERGLASS
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 D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)	NA	NA
Type I Uniform or nonuniform thickness shingles of any style		
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, or NA)	NO	
5. SEE APPENDIX IF CHECKED	X	

NA=not applicable

Asphalt Shingles Part 2

PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS	PABCO ROOFING PRODUCTS
PABCO PREMIER 30 YEAR	PABCO PREMIER 40 YEAR	PABCO SG-25	PABCO GG-20	MONARCH	PREMIER 25 ALGAE BLOCK
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

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

1. COMPANY NAME	TAMKO ROOFING PRODUCTS	TAMKO ROOFING PRODUCTS
2. PRODUCT NAME	HERITAGE 25 AR	HERITAGE 30
FELT MATERIAL	FIBERGLASS	FIBERGLASS
3. FIRE/WIND RATINGS		
A. FIRE RATING PER UL STANDARD 790 (Class A, B, or C)	CLASS A	CLASS A
B. WIND RATING PER UL STANDARD 997 (yes/no)	YES	YES
4. COMPLIES WITH:		
A. ASTM D3161-95a STANDARD TEST METHOD FOR WIND RESISTANCE OF ASPHALT SHINGLES (indicate type or NA)		
Type I Shingles with a factory-applied adhesive (self-sealing)	X	X
Type II Shingles of the lock-type, with mechanically interlocking tabs or ears		
B. ASTM D225-95 STANDARD SPECIFICATION FOR ASPHALT SHINGLES (ORGANIC FELT) SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Uniform or nonuniform thickness shingles of any style	NA	NA
Type II Thick butt, square tab, strip shingles		
Type III Uniform or nonuniform thickness shingles of any style		
C. ASTM D3018-90 (1994) STANDARD SPECIFICATION FOR CLASS A SHINGLES SURFACED WITH MINERAL GRANULES (indicate type or NA)		
Type I Self-sealing	X	X
Type II Non-self-sealing		
D. ASTM D 3462-96 STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT AND SURFACED WITH MINERAL GRANULES (yes, no, 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	TAMKO ROOFING PRODUCTS
HERITAGE 30 AR	HERITAGE 40	HERITAGE 40 AR	HERITAGE M25	HERITAGE M30	HERITAGE M40
FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS	FIBERGLASS
CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES	CLASS A YES
X	X	X	X	X	X
NA	NA	NA	NA	NA	NA
X	X	X	X	X	X
	YES	YES			YES

ASPHALT SHINGLE WARRANTIES

1.	Identity of Issuing Entity	Atlas Roofing Corporation	Bird Incorporated	BPCO, a division of Enco Limited
2.	Title, original publication date, and identifying symbol, if any	"United Warranty Shingles and Roll Roofing Products"; ARC 0897-002A; June 1997	"United Warranty Against Leakage Plus Five Year Wind Warranty"; May 1, 1997; VG 0899 ZOM	BPCD "Five Star Single Warranty"; RW-Jan, 80
3.	Products covered	StormMaster LM, StormMaster ST, Pinnacle Plus, Pinnacle 1, Pinnacle Classic, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster 25 Mettelson, GlasMaster 20, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK and MOD 80 MSR.	Rooftop Plus, Architect 80, Finline, Mark 80, Woodscape, Seal King, Jet 25, Wind Seal 80	Super Edge, Edgeline HIR, Tradition, Roofmaster Classic, Roofmaster Rampart, Title-Lok, Equid Pro Standard, Citadel, Title-On, LoSlope
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 slope-resistant shingles (i.e., StormMaster, Pinnacle Plus, Pinnacle Classic, Pinnacle 1, GlasMaster 25, WeatherMaster ST, Chisel and Plannum) will remain free of obvious and unsightly discoloration due to algae growth.	Bird warrants its shingles against manufacturing defects that cause leaks, stains or contamination to shingles from sources such as moss, lichens, fungus, mildew or other vegetation, or paints, chemicals or other similar materials are not manufacturing defects. Variations in color which may occur from pooling of granules are not manufacturing defects.	BPCO warrants that the shingles are free from manufacturing defects that result in water leakage.
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 so, 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, warranty only covers leakage due to manufacturing defects.
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: GlasMaster 25, GlasMaster 26, Alpine, GlasMaster 25 Mettelson, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster T-LOK 20 years: GlasMaster 20, WeatherMaster 20 10 years: MOD 80 MSR For Algae Resistance: 10 years For Wind Coverage: 5 years	40 years: Rooftop Plus 30 years: Architect 80, Finline, Mark 80 25 years: Woodscape, Seal King, Jet 25 20 years: Windseal 80	35 years: Super Edge, Edgeline HIR,* 25 years: Edgeline HIR, Tradition 20 years: Roofmaster Classic, Roofmaster Rampart, Title-Lok, Equid Pro Standard 12 years: Citadel, Title-On, LoSlope * Warranty period for Edgeline HIR corresponds to the warranty of the Super Edge or Edgeline shingles installed on the rest of the roof. When sold separately, a 30-year warranty applies.
5a.	Is the warranty prorated?	Yes	Yes	Yes
5b.	When does proration begin?	After five years: StormMaster LM, Pinnacle Plus, Pinnacle 1, Pinnacle Classic After three years: StormMaster ST, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK MOD 80 MSR After one year: StormMaster LM, Pinnacle Plus, Pinnacle 1, Pinnacle Classic StormMaster ST, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK MOD 80 MSR	After six years: Rooftop Plus After five years: Architect 80, Finline, Mark 80, Woodscape, Seal King After four years: Jet 25 After three years: Windseal 80	After five years: Super Edge, Edgeline HIR, Tradition, Roofmaster Classic, Roofmaster Rampart, Title-Lok, Equid Pro Standard, Citadel, Title-On After three years: LoSlope
5c.	What is the proration 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 80/480). StormMaster ST, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK: 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 LM, Pinnacle Plus: After initial three years, warranty is reduced by 1/288 for each month since original application (so that at the beginning of the fourth year, warranty would be reduced by 36/288). StormMaster ST, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20, WeatherMaster T-LOK: After initial three years, warranty is reduced by 1/216 for each month since original application (so that at the beginning of the fourth year, warranty would be reduced by 27/216). StormMaster LM, Pinnacle Plus: After initial two years, warranty is reduced by 1/120 for each month since original application (so that at the beginning of the third year, warranty would be reduced by 12/120).	Rooftop Plus: After six years, warranty is reduced by 1/480 for each month from date of original application (so that at the beginning of the seventh year, warranty would be reduced by 72/480). Architect 80, Finline, Mark 80: After five years, warranty is reduced by 1/360 for each month from date of original application (so that at the beginning of the sixth year, warranty would be reduced by 60/360). Woodscape, Seal King, Jet 25: After five years, warranty is reduced by 1/300 for each month from date of original application (so that at the beginning of the sixth year, warranty would be reduced by 60/300). Windseal 80: After four years, warranty is reduced by 1/240 for each month from date of original application (so that at the beginning of the fifth year, warranty would be reduced by 48/240). Rooftop Plus: After three years, warranty is reduced by 1/240 for each month from date of original application (so that at the beginning of the fourth year, warranty would be reduced by 36/240).	Super Edge: 14.28% reduction in the sixth year; 2.88% additional annual reduction each year thereafter. Edgeline, Tradition: 18.67% reduction in the sixth year; 3.33% additional annual reduction each year thereafter. Roofmaster Classic, Roofmaster Rampart, Title-Lok, Equid Pro Standard: 20% reduction in the sixth year; 4% additional annual reduction each year thereafter. Citadel: 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.
6.	Nature of Remedy	Atlas is liable for cost to repair or replace defective manufactured shingles. For algae-resistant shingles, Atlas' sole and only liability shall be to pay the reasonable cost of repair or replacement subject to proration. 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.	Provided shingles have been installed in strict accordance with accepted shingle application procedures and Bird's written application instructions, Bird will pay an independent roofing contractor and Bird's choice, responsible labor cost to repair or replace or recover in accordance with accepted roofing installation practice any shingles or roof sections containing shingles with manufacturing defects that have caused leak during the six, five, four or three year initial period after application, depending upon the type of shingle (see item No. 3b above), or not authorized in writing by Bird. After the initial period, shingle wear might prove to cause leaks. Bird's maximum and only liability shall be to furnish, on a prorated basis, replacement shingles, excluding any labor costs.	BPCO will, at its option, repair or replace at its own expense defective shingles or pay the repair or replacement cost of the defective shingles, according to BPCO's reasonable estimate at the time of the claim.
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, GlasMaster 25, GlasMaster 26, Alpine, GlasMaster 25 Mettelson, GlasMaster T-LOK, Chisel, Plannum, Plannum Organic, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T-LOK, and for the first year for MOD 80 MSR, warranty covers the cost of replacement, cost, exclusive of metal work, flashing or other work. For the balance of the warranty, replacement installation costs are excluded.	For the first six years for Rooftop Plus, for the first five years for Architect 80, Finline, Mark 80, Woodscape, Seal King, for the first four years for Jet 25, and for the first three years for Windseal 80, warranty covers labor to install replacement shingles. For the balance of the warranty, labor costs are excluded.	

6c.	Does the warranty provide for labor to remove defective shingles?	For the first five years for StormMaster LM, Pinacle Plus, Pinacle I and Pinacle Classic, for the first three years for StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Millennium, GlassMaster 20, GlassMaster T10K, Chisel, Pinacle I, Pinacle Plus, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T10K, the maximum repair or replacement cost, including application cost, plus balance of the warranty, replacement application costs, including costs for tear off, are excluded.	No	No, unless building code does not allow installation over existing layer of shingles.	Yes
6d.	Does the warranty cover disposal of defective shingles?		No		No
6e.	Does the warranty apply to any materials other than shingles?		No		No
7.	Is there a monetary limitation?	For the first five years for StormMaster LM, Pinacle Plus, Pinacle I and Pinacle Classic, for the first three years for StormMaster ST, GlassMaster 25, GlassMaster 25 Alpine, GlassMaster 25 Millennium, GlassMaster 20, GlassMaster T10K, Chisel, Pinacle Plus, WeatherMaster ST, WeatherMaster 20 and WeatherMaster T10K, the maximum repair or replacement cost to Atlas shall not exceed the replacement cost to the owner for the product, plus replacement application cost, plus balance of the warranty, replacement application cost, plus balance of the warranty. Atlas' liability excludes any cost for tear-off or replacement installation of new product and is limited to the replacement cost to the owner for the product, plus replacement application cost, plus balance of the warranty, replacement application cost, plus balance of the warranty.	No	During the initial period prior to providing, Bird's maximum liability is the reasonable labor cost to replace or repair defective shingles, exclusive of tear-off (unless required by code). After the initial period, Bird's maximum liability shall be to furnish, on a prorated basis, replacement shingles, exclusive of any labor costs.	BPCO will pay the repair or replacement cost of the defective shingles, according to BPCO's reasonable estimate at the time of the claim, reduced proportionally to the number of years elapsed since the completion date of installation of the BPCO shingles.
8.	Specific Exclusions from Coverage(See Warranty Introduction for codes.)	1, 2, 4, 8, 13, 19, 24, 27	No	1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 16, 18, 20, 23, 24	1, 2, 3, 4, 5, 6, 8, 10, 19, 23, 25, 28
9.	Wind Coverage/Exclusion	Atlas warrants that its StormMaster LM and StormMaster ST shingles will resist damage from wind gusts up to a maximum of 102 mph for the first five years after installation. After five years, Atlas warrants that its StormMaster LM and StormMaster ST shingles will resist damage from wind gusts up to a maximum of 84 mph for the first five years after installation. If, during this five year period, damage occurs to the shingles as a result of wind gusts under 102 mph or 84 mph, depending upon the shingle type, Atlas warrants that it will replace the damaged shingles at no cost to the owner, plus replacement application cost, plus balance of the warranty, but no replacement labor. Shingles installed under the terms of this warranty shall be permanently preclude activation of the sealant seal at the time of or after installation. In the event the shingles fail to self-seal after proper installation and climatic exposure, Atlas' and responsibility shall be to pay a reasonable cost to hand seal the affected shingles. In order to activate the sealant feature, the shingles must be exposed to warm sunlight for a continued period of time.	No	If shingles blow off in winds, including gusts, not exceeding 80 mph during the initial five years after application, Bird will pay to repair or replace missing or damaged shingles and to have remaining shingles hand-sealed if necessary. If the self-sealing asphalt strips fail to activate within the first year following application, Bird, upon prompt notice of the non-sealing, agrees to hand-seal, at its sole expense, any non-sealing shingles.	BPCO indicates that the warranty covers roof damage resulting from wind speeds up to 84 mph. The warranty states that it excludes damage to shingles caused by pests. If the BPCO 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.
10.	Notification Requirements	Any claim made must be in writing and mailed along with the proof of purchase to Atlas Roofing Corporation, Attn: Customer Services, 2584 Valley Road, Meriden, MS 39007, within five days after discovery of the alleged defect.	No	Written notification to Bird (reputable, 1077 Pleasant Street, Norwood, MA 02062, Attention United Warranty Claim Department, within 30 days after discovery of the apparent defect.	All claims must be made in writing as soon as possible and in no event more than 30 days after discovery. Claims may be delivered by hand, transmitted by fax or sent by email to BPCO, 10000 14th Avenue, Suite 100, Dallas, Texas 75244-1000 (Dallas, Texas, Canada, HRR 189, Fax No. (514) 384-0130 or in the Western U.S. to BPCO, 31032-100, N.E., P.O. Box 576, Edmonton, Alberta T5J 2N6, Fax No. (403) 486-1181. Attention: Quality Manager. All claims must include a copy of the invoice or contract establishing the date of installation along with warranty claim form.
11.	Determination of Warranty Applicability	Within 45 days from receipt of notice, Atlas will investigate claim, or at its option, designate in writing another party including the owner to procure samples and forward them to Atlas.	No	Precise method of repair or replacement is at the sole discretion of Bird.	BPCO's option to repair or replace defective shingles.
12.	Does the issuing entity manufacture and/or sell the shingles?	Atlas manufactures and sells the shingles.	No	Bird manufactures and sells the shingles.	BPCO manufactures and sells the shingles.
13.	Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E	No	A, C Conditions listed in Item No. 8 void the warranty.	A, B, C, E
14.	Inclusion of Consequential Damages	No	No		No
15.	Assignability	Warranty may be transferred by original purchaser to new buyers of the building only when title to the real estate is transferred.	No	Warranty may be transferred by the original property owner to the subsequent property owner during the initial unexpired period (three to six years, depending on the product) period. Should transfer occur, warranty shall be in effect for the balance of the unexpired initial period and for five years thereafter. Warranty may not be transferred after the initial period has expired. If the home or building upon which the shingles are applied is conveyed to another owner after the initial period has expired, the warranty automatically terminates.	Warranty is transferable.
16.	Cost to Obtain	Rose	No		Rose
17.	Is the warranty backed by insurance coverage?	No	No		No
18.	Is the warranty an additional or exclusive remedy for the owner?	Warranty is owner's sole and exclusive remedy. Atlas makes no representation or warranty of any kind other than as set forth in the limited warranty. Atlas' liability is limited to the provisions of the warranty, whether any claim against it is based upon strict liability, negligence, breach of warranty, or any other theory or cause of action. No person is authorized to alter the warranty either orally or in writing.	No	Warranty replaces all other oral or written warranties, liabilities or obligations of Bird, excludes UCC warranties.	There are no other express warranties of BPCO, whether oral or written, and BPCO is not responsible or liable for any promises, representations, commitments or agreements made by employees, agents or representatives of BPCO which are not in accordance with BPCO Warranty.
19.	Special Features/Conditions	Repairs made prior to or during the period of Atlas' investigation of a claim without Atlas' prior written approval shall be at owner's expense.	No	Accepted roofing installation procedures for which Bird is obligated to pay in the event of a claim. Atlas warrants that the shingles, when installed in accordance with the instructions in the warranty to include 10 basic steps, will resist damage from wind gusts up to one or two existing layers of shingles, including over a layer of laminated shingles where building codes permit; and (d) removing the top layer of shingles and then a new layer where building codes do not permit installing over the existing shingles. Bird will make payment only upon receipt of a release and indemnification signed by the owner, and upon receipt of a copy of the contractor's invoice or other written evidence of the completion of such work which Bird, at its sole discretion, deems acceptable. No suit under the warranty shall be brought later than one year after any cause of action has accrued.	Because color variations exist between shingles manufactured at different times and because BPCO may discontinue or modify color, BPCO reserves the right to replace defective shingles with shingles of the nearest color. BPCO will not be responsible for differences in color between replacement shingles and others not replaced, if those differences are caused by weathering.
20.	Enforced by Owner?	No	No	No; making registration card will help establish date of purchase and installation.	Yes (See Item No. 18.)

Asphalt Shingle Warranties

1. Identity of issuing entity	The Celotex Corporation		The Celotex Corporation	Elk Corporation
2. Title, original publication date, and identifying symbol, if any	"Dimensional Shale and 3 Tab Shingles Limited Warranty"; May 1, 1997; Form No. 1824-1192 Rev. E		"Ambassador Shale and Presidential Shale Shingles Limited Warranty"; April 1, 1997; Form #1899-0497	
3. Products covered	Dimensional/40, Dimensional/30, Dimensional/25, Storm King/25, Standard Strip/20, Set Seal 20		Ambassador Shale Shingles, Presidential Shale Shingles	
4. Scope of coverage	Celotex warrants that its residential asphalt shingles will remain free from manufacturing defects and that those shingles designated as Fungus/Algae Resistant Shingles will remain free from fungus and algae growth which adversely affect overall appearance.		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.	
4a. Does the warranty provide coverage for defects in manufacture?	Yes		Yes	
4b. Does the warranty provide coverage for defects in application?	No		No	
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects and fungus/algae resistant shingles (FRS) will remain free from fungus and algae growth which adversely affect overall appearance.		No; warranty covers manufacturing defects and, in some cases, 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	
5. Length of Coverage	For Manufacturing Defects 40 years: Dimensional/40 30 years: Dimensional/30 25 years: Dimensional/25, Storm King/25 20 years: Standard Strip/20, Set Seal/20 For Algae Resistance 15 years: Presidential Shale FRS, Dimensional/40 FRS, Dimensional/30 FRS 10 years: Storm King/25 Shingles FRS, Dimensional/25 FRS, Standard Strip/20 FRS (See Item No. 15 - Transferability)		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	
5a. Is the warranty prorated?	Yes		Yes	
5b. When does prorating begin?	After one year		After one year	
5c. What is the prorating formula?	For Manufacturing Defects Dimensional/40: After one (1) year, warranty is reduced by 1/480 for each month of use received. Dimensional/30: After one (1) year, warranty is reduced by 1/360 for each month of use received. Dimensional/25, Storm King/25: After one (1) year, warranty is reduced by 1/300 for each month of use received. Standard Strip/20, Set Seal/20: After one (1) year, warranty is reduced by 1/240 for each month of use received. For Algae Resistance Dimensional/40 FRS, Dimensional/30 FRS: Warranty is reduced 1/180 for each month of use. Dimensional/25 FRS, Standard Strip/20 FRS, Storm King/25 FRS: Warranty is reduced by 1/120 for each month of use.		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.	
6. Nature of Remedy	During the first year, Celotex will repair or replace defective shingles, including labor to install the shingles, excluding costs to tear-off or dispose of defective shingles, flashings, metal or related work. For the balance of the warranty, Celotex will pay the pre-rated repair or replacement cost, excluding costs to tear-off or dispose of defective shingles. For algae resistance, Celotex will pay the pre-rated cost to repair or replace defective FRS shingles. Celotex reserves the right to clean the algae/fungus from the shingles rather than to repair or replace them.		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.	
6a. Does the warranty provide for furnishing of replacement shingles?	Yes		Yes	
6b. Does the warranty provide for labor to install replacement shingles?	Yes		Yes	

6c. Does the warranty provide for labor to remove defective shingles?	No	For Ambassador Shakes: Yes, during the initial 10 year period; no for the balance of the warranty. For Presidential Shakes: Yes, during the initial 5 year period; no for the balance of the warranty.	No	For Ambassador Shakes: Yes, during the initial 10 year period; no for the balance of the warranty. For Presidential Shakes: Yes, during the initial 5 year period; no for the balance of the warranty.	No	During the first year, Elk shall pay the reasonable replacement cost of shingles and application labor or provide replacement shingles of similar design or pay the reasonable cost for repair of the shingles. After the first year, the replacement cost which Elk will pay will be reduced by the amount of usage received from the shingles.	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 21. Warranty also excludes claims by subsequent owners or transferees and damage caused by decking nails or staples backing out and either perforating or putting up the shingles.
6d. Does the warranty cover disposal of defective shingles?	No		No		No	During the first year, Elk shall pay the reasonable replacement cost of shingles and application labor or provide replacement shingles of similar design or pay the reasonable cost for repair of the shingles. After the first year, the replacement cost which Elk will pay will be reduced by the amount of usage received from the shingles.	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 21. Warranty also excludes claims by subsequent owners or transferees and damage caused by decking nails or staples backing out and either perforating or putting up the shingles.
6e. Does the warranty apply to any materials other than shingles?	No		No		No	During the first year, Elk shall pay the reasonable replacement cost of shingles and application labor or provide replacement shingles of similar design or pay the reasonable cost for repair of the shingles. After the first year, the replacement cost which Elk will pay will be reduced by the amount of usage received from the shingles.	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 17, 19, 21. Warranty also excludes claims by subsequent owners or transferees and damage caused by decking nails or staples backing out and either perforating or putting up the shingles.
7. Is there a monetary limitation?	No	During the first year, Colotex's liability is limited to the original cost of the shingles and Colotex'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	Colotex's maximum liability during the non prorated period will be equal to the reasonable cost as determined by Colotex to replace the defective shingles at current value. After the initial 10 year period for Ambassador Shakes and 5 year period for Presidential Shakes, Colotex's maximum contribution toward the cost of repairing or replacing defective shingles will be calculated by taking the reasonable cost of material required to replace the defective shingles at current value and multiplying that amount by the applicable prorate percentage. For Ambassador Shakes, Colotex's liability shall be limited to the original cost of shingles and labor as determined by Colotex.	No	Colotex's maximum liability during the non prorated period will be equal to the reasonable cost as determined by Colotex to replace the defective shingles at current value. After the initial 10 year period for Ambassador Shakes and 5 year period for Presidential Shakes, Colotex's maximum contribution toward the cost of repairing or replacing defective shingles will be calculated by taking the reasonable cost of material required to replace the defective shingles at current value and multiplying that amount by the applicable prorate percentage. For Ambassador Shakes, Colotex's liability shall be limited to the original cost of shingles and labor as determined by Colotex.	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 18, 20, 21, 23, 24
8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 19, 20, 21, 23, 24	No		No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 18, 20, 21, 23, 24	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 18, 20, 21, 23, 24
9. Wind Coverage/Exclusion	No	During the first five years, Colotex warrants that its shingles will resist wind blow-off damage due to wind velocities, including gusts, up to a maximum of 80 mph. Colotex will be liable only for the reasonable cost of replacing blown-off or wind-damaged shingles and manually sealing any remaining unsealed shingles. Colotex reserves the right to repair or replace only those shingles affected. All self-sealing shingles must be subjected to wind uplift 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 Colotex will not be responsible for wind damage until such thermal bonding has occurred.	No	During the first five years, Colotex warrants that its shingles will resist wind blow-off damage due to wind velocities, including gusts, up to a maximum of 80 mph. Colotex will be liable only for the reasonable cost of replacing blown-off or wind-damaged shingles and manually sealing any remaining unsealed shingles. Colotex reserves the right to repair or replace only those shingles affected. All self-sealing shingles must be subjected to wind uplift 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 Colotex will not be responsible for wind damage until such thermal bonding has occurred.	No	During the first five years, Colotex warrants that its shingles will resist wind blow-off damage due to wind velocities, including gusts, up to a maximum of 80 mph. Colotex will be liable only for the reasonable cost of replacing blown-off or wind-damaged shingles and manually sealing any remaining unsealed shingles. Colotex reserves the right to repair or replace only those shingles affected. All self-sealing shingles must be subjected to wind uplift 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 Colotex will not be responsible for wind damage until such thermal bonding has occurred.	No	During the first five years, Elk's Prestique shingles will be resistant to blow-offs in wind velocities up to 60 mph, provided the thermal sealant has properly activated. Elk's obligation is to pay the reasonable cost of replacing shingles that have blown-off and the reasonable cost of manually sealing any unsealed shingles which have had adequate exposure to heat.
10. Notification Requirements	No	Warranty claims must be sent in writing to The Colotex 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 single installation and the installed cost. Colotex may require the owner to submit, at his own expense, sample shingles for testing and/or photographs.	No	Warranty claims must be sent in writing to The Colotex Corporation, Director of Quality Assurance, 1327 Erie Street, Birmingham, AL 35244, within 30 days of the occurrence of the defect. All warranty claims must include copies of the warranty and invoice or contract showing the date of single installation and the installed cost. Colotex may require the owner to submit, at his own expense, sample shingles for testing and/or photographs.	No	Warranty claims must be sent in writing to The Colotex Corporation, Director of Quality Assurance, 1327 Erie Street, Birmingham, AL 35244, within 30 days of the occurrence of the defect. All warranty claims must include copies of the warranty and invoice or contract showing the date of single installation and the installed cost. Colotex may require the owner to submit, at his own expense, sample shingles for testing and/or photographs.	No	Written notification of alleged defect with a copy of warranty card and proof of purchase of the shingles to Elk, 4600 15th Street, Tuscaloosa, AL 35401, or P.O. Box 500, Ennis, TX 75120-0500, within 30 days of discovery of a problem. The owner may be requested to submit samples of shingles and photographs.
11. Determination of Warranty Applicability	No	Neutral (no provision).	No	Colotex's determination.	No	Colotex's determination.	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?	No	Colotex manufactures and sells the shingles.	No	Colotex manufactures and sells the shingles.	No	Colotex manufactures and sells the shingles.	No	Elk manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	No	C, E. Warranty also states that warranty will be void if information submitted on warranty information form is erroneous.	No	C, E. Warranty also states that warranty may be void if information submitted on warranty information form is erroneous.	No	C, E. Warranty also states that warranty may be void if information submitted on warranty information form is erroneous.	No	C, E
14. Inclusion of Consequential Damages	No	No	No	No	No	No	No	No
15. Assignability	No	For Dimensional/40 and Dimensional/30, warranty may be transferred by the original owner to the subsequent property owner under certain conditions. Transfer must be requested in writing by new owner within 30 days of real estate title transfer and must include copies of the deed, Colotex warranty and a check or money order. The transfer fee is \$150.00, plus \$3.00 per square. Send to: Colotex Corporation, Residential Roofing Product Manager, 4010 E. South Blvd., York, PA 17402, or Elk, 4600 15th Street, Tuscaloosa, AL 35401. If transfer occurs during the first year, the normal first year remedy will apply. Upon transfer, the new limited warranty term will be ten years from date of original application. If a transfer occurs during years 1 through 5, the new limited warranty term will be ten years from the date of original application. If a transfer occurs during years 6 or 7, the new limited warranty term will be seven years from date of original application.	No	Warranty may be transferred by the original homeowner to the subsequent property owner under certain conditions. Transfer must be requested in writing by new owner within 30 days of real estate title transfer and must include copies of the deed, Colotex warranty and a check or money order. The transfer fee is \$200, plus \$3.00 per square. No transfer for non-individual homeowner applications. For Dimensional/40 and Dimensional/30, warranty is transferred within the first 5 years, warranty will be in effect for an additional 10 years. If a transfer occurs during years 5-7, warranty will be in effect for an additional 7 years.	No	Warranty may be transferred by the original homeowner to the subsequent property owner under certain conditions. Transfer must be requested in writing by new owner within 30 days of real estate title transfer and must include copies of the deed, Colotex warranty and a check or money order. Transfer fee is \$200, plus \$3.00 per square. No transfer for non-individual homeowner applications. For Dimensional/40 and Dimensional/30, warranty is transferred within the first 5 years, warranty will be in effect for an additional 10 years. If a transfer occurs during years 5-7, warranty will be in effect for an additional 7 years.	No	Warranty is not assignable or transferable under any circumstances.
16. Cost to Obtain	No	None	None	None	None	None	None	None
17. Is the warranty backed by insurance coverage?	No	No	No	No	No	No	No	Elk indicates that it is self-insured.
18. Is the warranty an additional or exclusive remedy for the owner?	No	Warranty is exclusive and replaces all other warranties, whether express or implied. Warranty is owner's exclusive warranty from Colotex and represents the sole remedy available to any owner of Colotex shingles. Colotex makes no other representation or warranty of any kind.	No	Warranty is exclusive and replaces all other warranties, whether express or implied. Warranty is owner's exclusive warranty from Colotex and represents the sole remedy available to any owner of Colotex shingles. Colotex makes no other representation or warranty of any kind.	No	Warranty is exclusive and replaces all other warranties, whether express or implied. Warranty is owner's exclusive warranty from Colotex and represents the sole remedy available to any owner of Colotex shingles. Colotex makes no other representation or warranty of any kind.	No	Warranty is the sole and exclusive remedy provided to the owner. Elk makes no representation or warranty of any kind, other than what is stated in the warranty. Elk shall not be liable based upon any theory of negligence, breach of warranty, strict liability, or any other theory.
19. Special Features/Conditions	No	Warranty may not be changed or modified. No one, including any representative or employee of Colotex, has authority to assume any additional liability or responsibility.	No	HomeGuard protection (first 10 years for Ambassador and first 5 years for Presidential, including labor, not roof tear-off and disposal) does not apply when shingles are applied to an existing roof deck system that is not properly vented, labeled between the insulation and the decking material to which the shingles are attached. Warranty may not be changed or modified. No one, including any representative or employee of Colotex, has authority to assume any additional liability or responsibility.	No	HomeGuard protection (first 10 years for Ambassador and first 5 years for Presidential, including labor, not roof tear-off and disposal) does not apply when shingles are applied to an existing roof deck system that is not properly vented, labeled between the insulation and the decking material to which the shingles are attached. Warranty may not be changed or modified. No one, including any representative or employee of Colotex, has authority to assume any additional liability or responsibility.	No	Warranty is the sole and exclusive remedy provided to the owner. Elk makes no representation or warranty of any kind, other than what is stated in the warranty. Elk shall not be liable based upon any theory of negligence, breach of warranty, strict liability, or any other theory.
20. Executed by Owner?	No	Yes; warranty also executed by roofing contractor.	No	Yes; warranty also executed by roofing contractor.	No	Yes; warranty also executed by roofing contractor.	No	No

Asphalt Shingle Warranties

1. Identity of issuing entity	Elk Corporation of Alabama	GAF Materials Corporation	GAF Materials Corporation
2. Title, original publication date, and identifying symbol, if any	Elk "Capstone Roofing Products Warranty"	Grand Sequoia Shingles, "United Warranty on Grand Sequoia Fiberglass Asphalt Shingles"; January 1, 1988	"United Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles"; January 1, 1995; 0194
3. Products covered	Capstone Roofing Products	Grand Sequoia	Timberline Ultra, Timberline, Timberline 25, Marquis, Royal Sovereign, Sentinel, Starline, D.C. Tile-On
4. Scope of coverage	Elk warrants that the Capstone roofing products will be free from manufacturing defects in materials and manufacturing workmanship that would adversely affect performance; Class A fine rated by Underwriters Laboratories when tested per Elk's printed literature; non deterioration and, when manufactured with Stankolant treatment, will inhibit the deterioration of rising granules caused by growth of the blue-green algae, Gloeocapsa, which may adversely affect the appearance of roofs.	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 accretion 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; Class A fine rating, and algae resistance.	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. Tile-On may also be warranted against fungus-algae growth.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	For manufacturing defects and Class A fine rating: 30 years For algae resistance: five years	40 years	For Manufacturing Defects 40 years: Timberline Ultra 30 years: Timberline, Marquis, Starline 25 years: Timberline 25, Royal Sovereign, D.C. Tile-On 20 years: Sentinel For Algae Resistance 15 years: Timberline Ultra, Timberline 25, Marquis, Royal Sovereign, 10 years: Sentinel Yes After one year
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After ten years for manufacturing defects	After five years	After one year
5c. What is the prorating formula?	After ten years, warranty is reduced by 1/30th for each month of service from date of installation (so that at the beginning of the eleventh year, warranty would be reduced by 1/20360).	After five years, warranty is reduced by 1/480 for each month since original installation (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, Starline: After one year, warranty is reduced by 1/280 for each month of service from date of installation (so that at the beginning of the second year, warranty would be reduced by 12/280). Timberline 25, Royal Sovereign, D.C. Tile-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.
6. Nature of Remedy	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 prorated basis replacement product of similar design and/or color. In either case, Elk will not refund or pay any cost for tear-off and disposal of shingles, accessory materials such as fasteners, flashings, vents, underlayment, or any similar costs.	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 remove 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 fifth year, GAF will pay either the prorated reasonable cost of repair or recovery, or pay the reasonable labor cost of repair or recovery and provide replacement shingles, or cause the shingles to be repaired or recovered. GAF will pay labor costs, if appropriate, based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects at the time of settlement.	For shingles exhibiting manufacturing defects or fungus-algae growth within the first year, GAF will pay the reasonable cost to repair or replace the defective shingles including labor to remove them, exclusive of underlayment, metal work, flashing, or other related work, and/or will provide replacement shingles, or will cause the defective shingles to be repaired or replaced. After the first year, GAF will pay either the prorated reasonable cost of repair or replacement, or pay the prorated reasonable labor cost of repair or replacement and provide prorated replacement shingles, or cause the shingles to be repaired or replaced. GAF will pay replacement costs, if appropriate, based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects or fungus-algae growth at the time of settlement.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes, for the first ten years; no, for the balance of the warranty.	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	GAF Materials Corporation	Georgia-Pacific Corporation	GS Roofing Products Company, Inc.
2. Title, original publication date, and identifying symbol, if any	Stowhege and Floridan Shingles, "Limited Warranty on GAF Materials Corporation Fiberglass Asphalt Shingles", January 1, 1988	"Limited Shingle Warranty", January 1988; Lit. Item #041350	GS Roofing Products Company, Inc. "1984 Limited Roof Shingle Warranty Certificate", GSRP-Mo. 070184
3. Products covered	Stowhege and Floridan Shingles	Summit III, Summit, Spirit, Tough-Glass Plus, Tough-Glass, Tough-Glass T-LOCK, Premium-25, Asphalt-20, Asphalt T-LOCK	Sierra Shake, High Sierra, Architect 80/Estate, Fire Halt, Firescreen Plus 2000, Firescreen
4. Scope of coverage	GAF warrants that its shingles will remain free from manufacturing defects that adversely affect their performance and will resist discoloration resulting in a noticeably unsightly appearance of the roof due solely to most types of fungus and blue-green algae growth.	Georgia-Pacific warrants the roofing shingles are free from manufacturing defects, which would reduce the usable life of the shingles. Georgia-Pacific warrants that its algae resistant shingles will remain free of obvious and unsightly discoloration due to algae growth.	GS warrants to the original homeowner/consumer that the roofing shingles as manufactured and sold by GS, are free of any manufacturing defects which may cause leaks under normal exposure conditions.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that would adversely affect performance and fungus-algae growth.	No; warranty covers manufacturing defects that would reduce the usable life of the shingles and algae resistance.	No
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	For Manufacturing Defects: 25 years For Algae Resistance: 15 years	For Manufacturing Defects: 40 years: Summit III 30 years: Summit, Spirit 25 years: Tough-Glass Plus, Tough-Glass T-LOCK, Premium-25, Asphalt T-LOCK 20 years: Tough-Glass, Asphalt-20 For Algae Resistance: 10 years	40 years: Sierra Shake, High Sierra 30 years: Architect 80/Estate 25 years: Fire Halt, Firescreen Plus 2000 20 years: Firescreen
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	For Manufacturing Defects: After five years For Algae Resistance: After one year	After five years: Summit III, Summit, Spirit After three years: Tough-Glass Plus, Tough-Glass, Tough-Glass T-LOCK, Premium-25, Asphalt-20, Asphalt T-LOCK	After 5 years: Sierra Shake, High Sierra, Architect 80/Estate, Fire Halt After 3 years: Firescreen Plus 2000, Firescreen
5c. What is the prorating formula?	For Manufacturing Defects: After five years, warranty is reduced by 1/200 for each month of service from date of installation to that at the beginning of the sixth year, warranty would be reduced by 80/3000. For Algae Resistance: After one year, warranty is reduced by 1/180 for each month of service from date of installation.	Summit III: After initial five years, warranty is reduced by 1/480 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 80/480). Summit, Spirit: After initial five years, warranty is reduced by 1/360 for each month since original installation (so that at beginning of sixth year, warranty would be reduced by 80/360). Tough-Glass Plus, Tough-Glass T-LOCK, Premium-25, Asphalt T-LOCK: 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 38/3000). 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 38/2400).	Sierra Shake, High Sierra: After initial 5 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/480 for each month since original application (so that at beginning of sixth year, warranty would be reduced 80/480). Architect 80/Estate, Fire Halt: After initial 5 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/360 for each month since original application (so that at beginning of sixth year, warranty would be reduced by 80/360). Firescreen Plus 2000: After initial 3 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/300 for each month since original application (so that at beginning of fourth year, warranty would be reduced by 38/3000). Firescreen: After initial 3 years, warranty is based upon the original cost of the defective shingles (exclusive of labor, roof tear-off and flashing and metal work) and reduced by 1/240 for each month since original application (so that at beginning of fourth year, warranty would be reduced by 38/2400).
6. Nature of Remedy	For shingles exhibiting manufacturing defects within the first five years or fungus-algae growth within the first year, GAF will pay the full reasonable cost to repair or recover the defective shingles including labor to re-install them, exclusive of underlayment, metal work, flashing or other related work, and/or will provide replacement shingles, or will cause the defective shingles to be repaired or recovered. After the first five years for manufacturing defects and after the first year for fungus-algae growth, GAF will pay either the prorated reasonable cost of repair or recover, or pay the prorated reasonable labor cost of repair or recover and provide prorated recover shingles, or cause the shingles to be repaired or replaced. Labor costs to be paid by GAF are based on covering the defective shingles with new shingles. GAF will replace only those shingles actually exhibiting defects or fungus-algae growth at the time of settlement.	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-claim. 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.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	For the first five years, warranty includes labor to install replacement shingles. After five years, labor is excluded.	For the first five years for Summit III, Summit, Spirit and for the first three years for Tough-Glass Plus, Tough-Glass, Tough-Glass T-LOCK, Premium-25, Asphalt-20, Asphalt T-LOCK warranty covers replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, labor costs are excluded.	For first five years for Sierra Shake, High Sierra, Architect 80/Estate and Fire Halt, warranty includes labor to replace defective shingles. After five (5) years, labor to replace defective shingles is excluded from calculation of GS's maximum liability. For first three years for Firescreen and Firescreen Plus 2000, warranty includes labor to replace defective shingles. After three years, labor to replace defective shingles is excluded from calculation of GS's maximum liability.
6c. Does the warranty provide for labor to remove defective shingles?	No	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-LOCK, Premium-25, Asphalt-20, Asphalt T-LOCK, warranty covers replacement cost, plus replacement application cost, exclusive of metal work, flashing or other work. For the balance of the warranty, tear off costs are excluded.	No

[illegible]

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"; 1977	Herbert Malarkey Roofing Company "Limited Warranties for the Hurricane Shingle"; 1993	"Legacy-30 Limited Warranties"; August 1, 1987
3. Products covered	Type 202, 204 Premium Metric Fiberglass, Type 210, 230 SBS Metric Polyglass	Hurricane Shingles, Type 240 SBS Metric Polyglass	Legacy-30 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 to the original home/building owner that the Legacy-30 shingles are free from manufacturing defects that reduce the life of the shingle. Legacy-30 shingles using 3M Algae Block will resist discoloration or staining due to algae growth which causes an obvious and unsightly appearance on the granules.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects.	No; warranty covers manufacturing defects, including algae resistance. (See Item 19 below.)	No; warranty covers manufacturing defects, including algae resistance.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	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	Manufacturing Defects: 30 years (See Item 15 below.) Algae Resistance: 15 years Wind: 5 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	Immediately upon application	After one year	After five years
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).	After five years, warranty is reduced by 1/360 for each month since original application, less all sums previously paid (so that at the beginning of the sixth year, warranty would be reduced by 60/360 plus any sums previously paid).
6. Nature of Remedy	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'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 replacement cost of the shingles plus reasonable installation costs. After verification that the shingles are defective, Malarkey will perform its obligation within 45 days of receipt of notice, unless performance is delayed by causes beyond Malarkey's control. For Algae resistant shingles, Malarkey's sole liability is, at its option, to repair or replace the defective shingles, or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. For the first year, the payment to the owner for these shingles exhibiting discoloration due to algae will be an amount not exceeding the original cost of the defective shingles plus reasonable installation costs. During the remaining fourteen year warranty period, the maximum repair or replacement payment will be an amount not exceeding the original cost of these shingles exhibiting discoloration, excluding all installation costs, less a percentage which is based on the number of months elapsed in the warranty period divided by the fifteen year warranty period.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	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 for labor to remove defective shingles.]	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?	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.	For the first five years, Malarkey's maximum liability shall be equal to the reasonable replacement cost of the defective shingles plus reasonable installation costs, less all sums previously paid under the warranty. After five years, Malarkey's maximum repair or replacement payment to the owner will be an amount not exceeding the replacement cost of the defective shingles plus reasonable installation costs, less a percentage based on the number of months elapsed in the warranty period divided by 360 months warranty period, less all sums previously paid under this warranty.

8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 18, 23		1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 18, 23		1, 4, 5, 6, 7, 8, 9, 10, 13, 16, 18, 23
9. Wind Coverage/Exclusion	Malerkey warrants that up to five years from the date of installation, its shingles will resist damage from winds up to 54 mph for Types 202, 204 and 210 and for winds up to 100 mph for Type 230 SBS. Malerkey'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 Malerkey for removal of damaged shingles or installation of replacement shingles.				Malerkey warrants that for up to five years, the Legacy-30 shingles will resist damage from winds of up to 100 miles per hour. Malerkey's wind warranty applies only if the shingles are sealed, whether by hand sealing or by the self-sealing strips. Hand sealing is recommended when average daytime temperature drops below 50 F during installation. Malerkey's sole liability is, at its option, to repair or replace the defective shingles or to pay to the owner an amount not exceeding the original cost of the shingles plus reasonable installation costs. No amount shall be paid for removal or disposal of damaged shingles. In high-wind areas, as identified by the National Weather Service, shingles should be installed using six fasteners and per Malerkey's printed installation instructions. All shingles which contain a factory-applied self-sealing strip must be subjected to sunlight for several days before full sealing will occur. Shingles installed in the fall or winter may not seal until the following spring; consequently, the shingles should be hand sealed. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. This is the nature of shingles and failure to seal down under such circumstances is not a manufacturing defect. If any self-sealing shingles that have been exposed to adequate temperatures and direct sunlight fail to activate the self-sealing strips during the first year after application, Malerkey will have no liability under this warranty for each defect unless proper written notification has been made and Malerkey has been allowed the opportunity to hand seal any nonsealed shingles at its own expense.
10. Notification Requirements	Written notice of the discovery of manufacturing defects, by registered or certified mail, shall be given to Malerkey 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.
11. Determination of Warranty Applicability	Malerkey shall be given opportunity to inspect the material and to be provided with samples before any steps are taken to adjust the claim.				Malerkey will be given the opportunity to inspect the roof and to be provided with samples before any steps are taken to repair the roof.
12. Does the issuing entity manufacture and/or sell the shingles?	Malerkey manufactures and sells the shingles.				Malerkey 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
14. Inclusion of Consequential Damages	No				No
15. Assignability	Warranty is valid only to the original owner and is not transferable.				Warranty may be transferred one time to the subsequent owner only during the first five years. Once the warranty has been transferred, the new owner's warranty period will be 10 years from date of transfer. The current holder of the warranty must notify Malerkey in writing by registered or certified mail within 30 days from the date of the property change. Request to transfer the warranty must include (1) name and address of the current holder of the warranty, (2) date of original completed installation, (3) proof of purchases of the shingles, (4) the address where the shingles are installed, (5) the name and address of the new owner, and (6) the date of the transfer of the property.
16. Cost to Obtain	None				None
17. Is the warranty backed by insurance coverage?	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 Malerkey in connection with the sale of its product. No representative of Malerkey or other person has any authority whatsoever to accept from or for Malerkey any additional or different liability, or responsibility for Malerkey products.				Warranties are the only express warranties made by Malerkey in connection with the sale of its product. No person is authorized to alter warranty either orally or in writing.
19. Special Features/Conditions	See Item 20.				Malerkey is to be provided with samples before any steps are taken to repair the roof. Any repairs made prior to or during the investigation period without Malerkey's prior written approval will be at owner's expense.
20. Executed by Owner?	Yes: the owner must complete warranty registration card and return it to Herbert Malerkey Roofing Company, P.O. Box 17217 Kenton Station, Portland, OR 97217. Within 30 days of installation or warranty will be void.				Yes: the owner must complete warranty registration card and return it to Herbert Malerkey Roofing Company, P.O. Box 17217, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.

Asphalt Shingle Warranties

1. Identity of issuing entity	Herbert Malarkey Roofing Company	IKO Manufacturing Inc.	IKO Manufacturing Inc.
2. Title, original publication date, and identifying symbol, if any	"Highlander-25 Limited Warranties"; October 1, 1987	"Asphalt Shingle Limited Warranty"; December 1, 1986	"Asphalt Shingle Limited Lifetime Warranty Dynasty Coverage"; January 1, 1987
3. Products covered	Highlander-25 shingles	Chateau Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Imperial Gentry 20, Imperial Seal 20, Imperial Glass 20	Dynasty (See Special Features/Conditions.)
4. Scope of coverage	Malarkey warrants to the original home/building owner that the Highlander-25 shingles are free from manufacturing defects that reduce the life of the shingle.	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.
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 leaks only and, if so, what defects or conditions other than leakage are covered?	No; warranty covers manufacturing defects that reduce the life of the shingle.	Yes	No; warranty also covers 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	25 years (See Item 15 below.)	30 years: Chateau Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Imperial Seal 20, Imperial Glass 20 25 years: Imperial Gentry 25, Imperial Seal 20, Imperial Glass 20 (See Item 15 for effect of transfer.)	For manufacturing defects: warranty extends for the lifetime of the original consumer/purchaser who retains ownership of the individual residential property on which the shingles were installed. Lifetime warranty ends automatically upon the death of the original consumer/purchaser or the death of the last owner of the property owner at the time the Dynasty shingles were installed. Dynasty shingles installed on any type of building other than individual residences, such as, but not limited to, corporate, commercial, governmental, condominium, school, religious, apartment or multi-family type buildings. The length of the warranty is 40 years, provided that the shingles are installed during the first 7 years, the total duration of the warranty is limited to 15 years. For algae resistance: 10 years For wind coverage: 5 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After three years	After 5 years: Chateau Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Royal Victorian, Skyline After 3 years: Imperial Seal 20, Imperial Glass 20	After 7 years
5c. What is the prorating formula?	After three years, warranty is reduced by 1/300 for each month since original application, less all sums previously paid (so that at the beginning of the fourth year, warranty would be reduced by 38/300 plus any sums previously paid).	After the initial period (three or five years, depending upon the product—see Item 5b above), all IKO warranties are reduced by 1/225 per month for the first 15 years of the warranty period. After the first 15 years, the monthly reduction figure changes as follows: for Royal Victorian, Imperial Seal 20, and Imperial Glass 20, the warranty is reduced by 1/130 per month; for Cambridge Ultra, Royal Victorian, Renaissance XL, Aristocrat 25, and Imperial Gentry 25, the warranty is reduced by 1/180 per month; for Chateau Shadow Band and Crowne 30, the warranty is reduced by 1/1800 per month (so that at the beginning of the sixteenth year, each warranty would be reduced by 180/225 and then either 1/300, 1/600 or 1/1800 for each month thereafter, depending upon the type of shingle).	After the initial seven-year period, the IKO warranty is reduced by 1/225 per month for the first 15 years of the warranty period (so that at the beginning of the eighth year, warranty would be reduced by 84/225 and reduced by an additional 1/225 for each month through year 15). After the first 15 years, the warranty is reduced by 384/450 (85%) for months 181-450 and the warranty is reduced 432/450 (96%) after 450 months.
6. Nature of Remedy	Malarkey's sole liability is, at its option, to repair or replace the defective shingles or to pay the owner an amount not exceeding the replacement cost of the shingles plus reasonable installation costs. After verification that the shingles are defective, Malarkey will perform its obligation within 45 days of receipt of notice, unless performance is delayed by causes beyond Malarkey's control.	IKO will, at its option have the shingles repaired or replaced free of charge, exclusive of costs for tear-off, flashings, and metal work.	During the first seven years, IKO will, at its option have the shingles repaired or replaced free of charge, exclusive of costs for tear-off, flashings, and metal work, or required repairs to associated defects or damage. After seven years, IKO's liability toward repair or replacement is the pre-rated amount of the current value of the shingles only, exclusive of labor, disposal, and tear-off. In the event that an algae disease causing discoloration of the Dynasty shingles occurs, IKO will, at its option, have the shingles repaired or replaced (including installation labor costs where necessary) only those shingles which have developed the algae growth that cause discoloration.
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 five years for Chateau Shadow Band, Crowne 30, Cambridge Ultra, Shadow, Renaissance XL, Royal Victorian, Cathedral 25, Skyline 25, Aristocrat 25, and Imperial Gentry 25, and for the first three years for Imperial Glass 20 and Imperial Seal 20. Thereafter, 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
6e. Does the warranty apply to any materials other than shingles?	No	No	No
7. Is there a monetary limitation?	For the first three years, Malarkey's maximum liability shall be equal to the reasonable replacement cost of the defective shingles plus reasonable installation costs. After three years, Malarkey's maximum liability shall be an amount not exceeding the replacement cost of the defective shingles plus reasonable installation costs, less a percentage based on the number of months elapsed in the warranty period divided by 300 months warranty period, less all sums previously paid under this warranty.	During the first five years for Chateau Shadow Band, Crowne 30, Cambridge Ultra, Renaissance XL, Aristocrat 25, Imperial Gentry 25, Imperial Seal 20, and Imperial Glass 20, IKO's maximum liability shall be equal to the reasonable replacement cost of the defective shingles that are proven to have a manufacturing defect, plus reasonable installation costs. After the initial period applicable to the specific product, IKO's maximum liability toward repairs or replacement shall be a prorated amount of the current value of the shingles only (exclusive of labor, disposal, and tear-off).	During the first seven years, IKO's maximum liability shall be equal to the reasonable replacement cost of the defective shingles that are proven to have a manufacturing defect, plus reasonable installation costs. After the initial seven-year period, IKO's maximum liability toward repairs or replacement shall be a prorated amount of the current value of the shingles only (exclusive of labor, disposal, and tear-off).

8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 4, 6, 8, 9, 10, 13, 14, 17, 19, 23	IKO warrants its shingles for five years against wind damage due to wind velocities, including "gusts" up to a maximum of 80 mph. In the event that it is proven that there has been wind damage from winds up to 80 mph, IKO will furnish similar shingles necessary for replacement of damaged shingles. Warranty does not cover the major costs for the removal of damaged shingles or the application of the replacement shingles.	1, 2, 4, 6, 8, 9, 13, 14, 17, 19, 23, 24. Warranty also excludes any back surfacing transfer or asphalt staining, any costs related to disposal, and any costs related to the removal of any asbestos present in the roof to which IKO shingles are installed.
9. Wind Coverage/Exclusion	1, 4, 5, 6, 7, 8, 9, 10, 13, 14, 17, 19, 23	IKO warrants its shingles for five years against wind damage due to wind velocities, including "gusts" up to a maximum of 80 mph. In the event that it is proven that there has been wind damage from winds up to 80 mph, IKO will furnish similar shingles necessary for replacement of damaged shingles. Warranty does not cover the major costs for the removal of damaged shingles or the application of the replacement shingles.	IKO warrants its shingles for five years against wind damage due to wind velocities, including "gusts" up to a maximum of 80 mph. In the event that it is proven that there has been wind damage from winds up to 80 mph, IKO will furnish similar shingles necessary for replacement of damaged shingles. Warranty does not cover the major costs for the removal of damaged shingles or the application of the replacement shingles.
10. Notification Requirements		Claims must be filed within thirty days of discovery of the alleged defect in the following manner: (1) contact IKO Quality Services at 1-800-433-2811; (2) furnish the information as requested by the quality services representative; (3) complete, sign and return the home owner inquiry survey, including proof of purchase; (4) provide access to the IKO products in question for the purpose of investigation if requested.	Claims must be filed within thirty days of discovery of the alleged defect in the following manner: (1) contact IKO Quality Services at 1-800-433-2811; (2) furnish the information as requested by the quality services representative; (3) complete, sign and return the home owner inquiry survey, including proof of purchase; (4) provide access to the IKO products in question for the purpose of investigation if requested.
11. Determination of Warranty Applicability		IKO will, within approximately sixty days of receipt of the completed home owner inquiry survey, evaluate the claim and respond. Any claimed defect for which notice is not received by IKO within the applicable warranty period is not covered and will not be considered.	IKO will, within approximately sixty days of receipt of the completed home owner inquiry survey, evaluate the claim and respond. Any claimed defect for which notice is not received by IKO within the applicable warranty period is not covered.
12. Does the issuing entity manufacture and/or sell the shingles?		IKO manufactures and sells the shingles.	IKO manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, 6, 1	IKO warrants its shingles for five years against wind damage due to wind velocities, including "gusts" up to a maximum of 80 mph. In the event that it is proven that there has been wind damage from winds up to 80 mph, IKO will furnish similar shingles necessary for replacement of damaged shingles. Warranty does not cover the major costs for the removal of damaged shingles or the application of the replacement shingles.	IKO warrants its shingles for five years against wind damage due to wind velocities, including "gusts" up to a maximum of 80 mph. In the event that it is proven that there has been wind damage from winds up to 80 mph, IKO will furnish similar shingles necessary for replacement of damaged shingles. Warranty does not cover the major costs for the removal of damaged shingles or the application of the replacement shingles.
14. Inclusion of Consequential Damages	No	Warranty may be transferred by the original consumer-purchaser only to a subsequent property owner within ten years following shingle installation under the terms of the warranty. The transfer must be in writing and must be recorded in writing by IKO at 8800 S. Central Expressway, Suite 600, Denver, CO 80231. The original consumer-purchaser, within thirty days after the date of the real estate transfer, must include a copy of the original invoice showing proof of purchase of the IKO product and a copy of the real estate transfer. Should a transfer occur during the initial five years for Chateau Shadow Base, Cambridge Ultra, and Renaissance XL, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. Except as stated above, if there is a transfer within the five-year period, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. The warranty will be voided if the warranty is transferred after the date of installation as the start date, and the warranty will exclude labor costs.	Warranty may be transferred by the original consumer-purchaser only to a subsequent property owner within ten years following shingle installation under the terms of the warranty. The transfer must be in writing and must be recorded in writing by IKO at 8800 S. Central Expressway, Suite 600, Denver, CO 80231. The original consumer-purchaser, within thirty days after the date of the real estate transfer, must include a copy of the original invoice showing proof of purchase of the IKO product and a copy of the real estate transfer. Should a transfer occur during the initial five years for Chateau Shadow Base, Cambridge Ultra, and Renaissance XL, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. Except as stated above, if there is a transfer within the five-year period, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. The warranty will be voided if the warranty is transferred after the date of installation as the start date, and the warranty will exclude labor costs.
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?	Warranties are the only express warranties made by Malerkey in connection with the sale of the product. No person is authorized to alter these limited warranties either orally or in writing.	Warranties are the only express warranties made by Malerkey in connection with the sale of the product. No person is authorized to alter these limited warranties either orally or in writing.	This warranty replaces all other oral or written warranties, liabilities or obligations of IKO. IKO will not be liable for any oral statement or other written statement of IKO, its agents, distributors, contractors, or dealers to make any changes or modifications to this warranty, excludes UCC warranties.
19. Special Features/Conditions	Malerkey is to be provided with samples before any steps are taken to repair the roof. Any repairs made prior to or during the investigation period without Malerkey's prior written approval will be at owner's expense.	For all products, the original consumer-purchaser may extend the initial three or five years of non-transferable warranty coverage, which includes labor to install replacement shingles, up to two years. This option must be exercised within one year of the date of installation. The extension must be in writing and must be recorded in writing by IKO at 8800 S. Central Expressway, Suite 600, Denver, CO 80231. The original consumer-purchaser, within thirty days after the date of the real estate transfer, must include a copy of the original invoice showing proof of purchase of the IKO product and a copy of the real estate transfer. Should a transfer occur during the initial five years for Chateau Shadow Base, Cambridge Ultra, and Renaissance XL, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. Except as stated above, if there is a transfer within the five-year period, the duration of the warranty shall be the balance of the initial five-year period plus an additional five years rather than the normal 10 or 15 years. The warranty will be voided if the warranty is transferred after the date of installation as the start date, and the warranty will exclude labor costs.	This warranty only covers Dynasty shingles when they are installed on roof slopes of 4 in 12 or greater. IKO reserves the right to discontinue or modify any of its products, including shingles, without notice to the original consumer-purchaser and shall not be liable to the original consumer-purchaser as a result of this modification or discontinuance. IKO will have no liability in the event that replacement material may vary in color in comparison to the original product as a result of product changes or normal weathering.
20. Executed by Owner?	Yes, the owner must complete warranty registration card and return it to Herbert Malerkey Roofing Company, P.O. Box 77217, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.	Yes, the owner must complete warranty registration card and return it to Herbert Malerkey Roofing Company, P.O. Box 77217, Portland, OR 97217-0217, within 30 days of installation or warranty will be void.	No

Asphalt Shingle Warranties

1. Identity of Issuing entity	Owens Corning	Owens Corning	Owens Corning
2. Title, original publication date, and identifying symbol, if any	"Limited Warranty on Roofing Shingles"; May 1989; Pub. No. 18-RR-0845B-U	"Limited Warranty on Algae Resistant Shingles"; January 1997; Pub. No. 18-RR-1376D-M	"Roofing System Advantage Limited Warranty"; February 1997; Pub. No. 15-RR-2156I
3. Products covered	Oakridge Shadow, Oakridge Plus, Oakridge II, Prominence, Supreme Shadow, Supreme, Classic, Glaslock	Oakridge Shadow Algae Resistant, Oakridge Plus Algae Resistant, Oakridge II Algae Resistant, Prominence Algae Resistant, Supreme Shadow Algae Resistant, Supreme Algae Resistant, Classic Algae Resistant	Oakridge Shadow, Oakridge Plus, Oakridge II, Oakridge II AR, Supreme Shadow, Supreme, Supreme AR, Glaslock, Classic, Classic 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.	Owens Corning warrants to the original consumer purchaser that its algae resistant roofing shingles ("AR shingles") are free from manufacturing defects that affect shingle performance and that the AR shingles will remain free from discoloration due to algae, fungal, lichen and cyanobacterial growths which cause an obvious and unsightly appearance on the AR shingles.	Owens Corning warrants that the Owens Corning roofing system components are free from manufacturing defects that would reduce the performance of the system components. (See Special Features/Conditions.) Owens Corning warrants that shingles described as algae resistant shall be resistant to algae, fungal, lichen or cyanobacterial growths.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No	No
4c. Does the warranty limit coverage to leakage and, if no, what defects or conditions other than leakage are covered?	No; Warranty covers manufacturing defects that affect shingle performance.	No; Warranty covers manufacturing defects that affect shingle performance and unsightly appearance due to fungal, lichen and cyanobacterial growth.	No; warranty covers manufacturing defects that affect shingle performance.
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No	No
5. Length of Coverage	40 years: Oakridge Shadow 30 years: Oakridge Plus, Prominence 25 years: Oakridge II, Supreme Shadow, Supreme, Glaslock 20 years: Classic	Non-Algae Manufacturing Defects 40 years: Oakridge Shadow Algae Resistant 30 years: Oakridge Plus Algae Resistant 25 years: Oakridge II Algae Resistant, Supreme Shadow Algae Resistant, Supreme Algae Resistant 20 years: Classic Algae Resistant For Algae Resistance: 10 years: All Owens Corning Algae Resistant (AR) shingles For Wind Coverage: 5 years	For Manufacturing Defects: 40 years: Oakridge Shadow 30 years: Oakridge Plus, Prominence 25 years: Oakridge II, Supreme Shadow, Supreme, Glaslock 20 years: Classic For Algae Resistance: 10 years For Wind Coverage: 5 years
5a. Is the warranty prorated?	Yes	Yes	Yes
5b. When does prorating begin?	After one year	After one year	After 15 years, Oakridge Shadow; after 10 years, Oakridge Plus, Prominence; after 7 years, Oakridge II, Supreme Shadow, Supreme, Glaslock; after 5 years, Classic If consumer purchases Rain-Mate and soffit vents from Owens Corning, the prorated period shall be extended by an additional two years. For algae resistance: after 1 year
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.	For Non-Algae Manufacturing Defects: Oakridge Shadow AR: After one year, warranty is reduced by 1/480 for each month of service from the date of installation. Oakridge Plus AR, Prominence AR: After one year, warranty is reduced by 1/360 for each month of service from the date of installation. Oakridge II AR, Supreme Shadow AR, Supreme AR: After one year, warranty is reduced by 1/300 for each month of service from the date of installation. Classic AR: After one year, warranty is reduced by 1/240 for each month of service from the date of installation. For Algae Resistance: After one year, warranty is reduced by 1/120 for each month of service from date of installation.	For Manufacturing Defects: Oakridge Shadow: After 15 years, warranty is reduced by 1/480 for each month since original installation (so that at the beginning of the 16th year, warranty would be reduced by 1/6000); Oakridge Plus, Prominence: After 10 years, warranty is reduced by 1/360 for each month since original installation (so that at the beginning of the 11th year, warranty would be reduced by 1/20480); Oakridge II, Supreme Shadow, Supreme, Glaslock: After 7 years, warranty is reduced by 1/300 for each month since original installation (so that at the beginning of the 8th year, warranty would be reduced by 84/200); Classic: After 5 years, warranty is reduced by 1/240 for each month since original installation (so that at the beginning of the 6th year, warranty would be reduced by 80/240). For Algae Resistance: Algae resistant shingles: After 1 year, warranty is reduced by 1/120 for each month since original installation (so that at the beginning of the second year, warranty would be reduced by 12/120).
6. Nature of Remedy	For the first year, Owens Corning shall pay the repair or replacement cost of the defective shingles, including labor, exclusive of material 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.	For the first year, Owens Corning shall pay the reasonable cost of repair or replacement of the defective AR shingles, including labor, exclusive of material 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.	During the initial period (15, 10, 7, or 5 years, depending upon the product—see Item 5b), Owens Corning shall pay the reasonable cost of repair or replacement of the defective system components as well as any other system components which must also be repaired or replaced in order to properly repair or replace the defective system components, including labor, exclusive of tear-off, disposal, metal work, flashing, or other related work. After the initial periods, Owens Corning shall pay prorated reasonable replacement costs as determined by Owens Corning. A monetary settlement will be the only remedy available to the consumer for defective system components. If algae resistant shingles exhibit discoloration due solely to algae, fungal, lichen, or cyanobacterial growth, Owens Corning will pay the consumer prorated, reasonable cost of repair or replacement.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes	Yes

6c.	Does the warranty provide for labor to remove defective shingles?	No	No	No	No	No	No	No	No	No	Yes; warranty covers all Owens Corning roofing system components, such as Owens Corning VentiSure ridge vent, hip and ridge products, WeatherLock, No. 15 or No. 30 asphalt-saturated felt, Fast-R-Mate, soffit vents.
6d.	Does the warranty cover disposal of defective shingles?	No	No	No	No	No	No	No	No	No	For manufacturing defects, during the nonprorated period, Owens Corning's maximum costs shall be the replacement cost of the defective system components, including labor, exclusive of metal work, flashing, or other related work. For algae resistance, during the first year, Owens Corning's maximum liability shall be the replacement cost of the AR shingles exhibiting discoloration up to the initial cost of the shingles and their initial installation. For the balance of the warranty, Owens Corning's maximum costs shall be prorated and the prorating formula for algae resistance shall include the cost of installation labor.
6e.	Does the warranty apply to any materials other than shingles?	No	No	No	No	No	No	No	No	No	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 17, 19, 21, 23, 24
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.	No	No	No	No	No	No	No	No	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 AR 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.
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	No	No	No	No	No	No	No	No	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 AR 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.
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 AR 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.	No	No	No	No	No	No	No	No	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 AR 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.
10.	Notification Requirements	Claims must be submitted in writing, together with proof of purchase of the shingles and the application date, to Owens Corning world headquarters, customer response center, Toledo, OH 43659, within 30 days after discovery of the alleged defect.	No	No	No	No	No	No	No	No	Claims must be submitted in writing to Owens Corning world headquarters, customer response center, system advantage warranty administrator, Toledo, OH 43659, within 30 days after discovery of the alleged defect.
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.	No	No	No	No	No	No	No	No	In all cases the extent of repair and replacement will be at the sole discretion of Owens Corning.
12.	Does the issuing entity manufacture and/or sell the shingles?	Owens Corning manufactures and sells the shingles.	No	No	No	No	No	No	No	No	Owens Corning manufactures and sells the shingles.
13.	Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E	No	No	No	No	No	No	No	No	C, E
14.	Inclusion of Consequential Damages	No	No	No	No	No	No	No	No	No	No
15.	Assignability	Warranty is not transferable.	No	No	No	No	No	No	No	No	Warranty may be transferred one time if the original consumer sells the building upon which the Owens Corning roofing system has been installed under the following conditions: (1) warranty transfer card must be completed and returned to Owens Corning within 30 days of the date of the sale of building and (2) payment of \$50 transfer fee.
16.	Cost to Obtain	None	No	No	No	No	No	No	No	No	\$50 registration fee.
17.	Is the warranty backed by insurance coverage?	No	No	No	No	No	No	No	No	No	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.	No	No	No	No	No	No	No	No	Warranty contains all of the provisions of remedies from Owens Corning. Owens Corning's liability is limited to the provisions of the warranty, whether any claim against it is based on strict liability, negligence, breach of warranty, or any other theory or cause of action.
19.	Special Features/Conditions	Within 30 days after receipt of written claim, Owens Corning representative will contact consumer regarding the claim.	No	No	No	No	No	No	No	No	Consumer must purchase a complete "Roofing System" from Owens Corning to be installed on a structure with a roof that is no larger than 100 squares. The roofing system may not be installed over existing roofing materials, all of which must be removed to the deck. The components of a complete roofing system include all of the following items: (1) Owens Corning asphalt shingles, (2) Owens Corning VentiSure ridge vent product in conjunction with eave and/or soffit intake vents to ensure that air circulates freely under the roof deck, (3) one of Owens Corning's hip and ridge products or an Owens Corning shingle product in lieu of hip and ridge product (provided that such shingle product has a warranty period which is at least equal to the warranty period for the roofing shingles purchased), (4) Owens Corning WeatherLock installed according to Owens Corning's recommended applications (unless WeatherLock is not available in the Consumer's area), and (5) any breather type No. 15 or No. 30 asphalt saturated felt which is intended to be used as shingle underlayment.
20.	Executed by Owner?	No; contractor or dealer should sign and date the warranty upon completion to help establish proof of purchase.	No	No	No	No	No	No	No	No	Consumer must complete and return to Owens Corning a registration card with a \$50 registration fee and proof of purchase of the Owens Corning roofing system components, including shingles and application date.

Asphalt Shingle Warranties

1. Identity of Issuing entity	PABCO Roofing Products, a division of Pacific Coast Building Products, Inc.	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.
2. Title, original publication date, and identifying symbol, if any	"Single Warranty"; September 1989	Tamko Roofing Products, Inc. "Fiberglass Shingles Limited Warranty" January 31, 1986; 897449 JP 21371	Tamko Roofing Products, Inc. "Fiberglass Shingles Limited Warranty" January 31, 1986; 897449 JP 21371
3. Products covered	PABCO HM-30, PABCO Monarch, PABCO SG-25, PABCO SG-25/3M Algae Block, PABCO GG-20, PABCO Laminated Shingles: Premier-40, Premier-30/3M Algae Block, Premier-25, Premier-25/3M Algae Block	Heritage 40 AR, Heritage 30 AR, Heritage 25 AR, Elite Glass-Seal AR, Glass-Seal AR	Heritage 40, Heritage 30, Heritage 25, Elite Glass-Seal, Glass-Seal, Tam-Loc Glass
4. Scope of coverage	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.	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 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 blue-green algae of the genus Gloeocapsa, that adversely affects appearance.	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: PABCO Premier-40 30 Years: PABCO Premier-30/3M Algae Block, PABCO HM-30 25 Years: PABCO Premier-25, PABCO Monarch, PABCO SG-25, PABCO SG-25/3M Algae Block, PABCO Premier-25/3M Algae Block 20 Years: PABCO GG-20	For Manufacturing Defects Resulting in Leaks: 40 years: Heritage 40 AR 30 years: Heritage 30 AR 25 years: Heritage 25 AR, Elite Glass-Seal AR 20 years: Glass-Seal AR For Algae Resistance: 10 years: All Tamko algae resistant (AR) shingles	40 years: Heritage 40 30 years: Heritage 30 25 years: Heritage 25, Elite Glass-Seal, Tam-Loc Glass 20 years: Glass-Seal
5a. Is the warranty prorated?	Yes	Warranty coverage for manufacturing defects is provided; warranty coverage for algae resistance is not provided.	Yes
5b. When does prorating begin?	After one year.	After one year for manufacturing defects	After one year
5c. What is the prorating formula?	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-30/3M Algae Block, 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, Monarch, SG-25, SG-25/3M Algae Block, 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.	Heritage 40: After one year, warranty is reduced by 1/480 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, Tam-Loc Glass: 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.
6. Nature of Remedy	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.	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.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Warranty states PABCO will repair or replace defective shingles. [PABCO indicates warranty does not provide for labor to install replacement shingles.]	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?	For the first year, PABCO's maximum liability shall be equal to the initial cost of the asphalt shingles and the cost of their initial application, exclusive of costs of flashings and metal work. For the balance of the warranty period, PABCO's maximum liability is: Premier-40: \$80/square Premier-30/3M Algae Block: \$70/square Premier-25/3M Algae Block, HM-30: \$60/square Premier-25: \$55/square Monarch, SG-25/3M Algae Block: \$47/square GG-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 pro-rata schedule.	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 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). Tanko's maximum liability for repair or replacement due to algae or fungus growth shall be limited to the original cost of the shingles and the cost of their original installation.	During the first year, 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 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). Tanko's maximum liability for repair or replacement due to algae or fungus growth shall be limited to the original cost of the shingles and the cost of their original installation.	During the first year, 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 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). Tanko'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, 4, 6, 7, 8, 9, 13, 16, 18, 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.	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	PABCO warrants that its shingles will resist wind blow-off due to wind velocities, including "gusts" up to a maximum of 80 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 those shingles damaged. Wind warranty does not cover labor costs for removal of damaged shingles or application of replacement shingles. Winter application from November through March should be 6 nailed and hand sealed as a precaution against blow-offs. If self-sealing asphalt shingles fail to properly activate within the first year, PABCO shall have the opportunity to hand seal, at its sole expense, any non-sealing shingles. All shingles containing a strip of thermal sealing asphalt must be subjected to warm sunlight for several days before full sealing will occur. Shingles installed in the fall or winter may not seal until the following spring. Shingles which do not receive direct sunlight or which are not exposed to adequate surface temperatures may never seal. Failure to seal under such circumstances is not a manufacturing defect.	During the first five years after initial application, Tanko shingles shall resist damage by winds up to 80 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 80 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 80 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	Written notification shall be provided to PABCO Roofing Products, 1718 Thorne Road, Tacoma, WA 98421-3207, of any defect promptly following its discovery and submitted with notice of proof of date of purchase and application.	The owner must notify Tanko 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.	The owner must notify Tanko 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.	The owner must notify Tanko 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	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 Tanko.	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.
12.	Does the issuing entity manufacture and/or sell the shingles?	PABCO manufactures and sells 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.)	Application of PABCO Roofing Products on "One-Date" dome construction is not warranted nor approved under any circumstances.	C, E, F (Hawaii and Alaska are also excluded.)	C, E, F (Hawaii and Alaska are also excluded.)	C, E, F (Hawaii and Alaska are also excluded.)
14.	Inclusion of Consequential Damages	No	No	No	No
15.	Assignability	Warranty is transferable.	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.
16.	Cost to Obtain	None	None	None	None
17.	Is the warranty backed by insurance coverage?	PABCO indicates that it is self-insured.	No	No	No
18.	Is the warranty an additional or exclusive remedy for the owner?	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 Tanko.	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.	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.
19.	Special Features/Conditions	All actions and proceedings against PABCO based upon the warranty, shall be commenced within the earlier of six months after the defect is discovered by the homeowner, or the last day of the applicable warranty. PABCO reserves the right to discontinue or modify any of its products, including the color of shingles, without notice to the original homeowner/consumer and shall not be liable to the original homeowner/consumer as a result of discontinuance or modification. Warranty applies to shingles applied from January 1, 1987 to December 31, 2000. PABCO Premier-25 3M Algae Block System shingles and SG-25 3M Algae Block System shingles will carry a minimum of 15 years Algae Block limited warranty as warranted by 3M Corporation in conjunction with PABCO Roofing Products' normal warranty.	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.	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.	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.
20.	Enforced by Owner?	Yes; after job completion, owner should return the asphalt shingle warranty registration to PABCO Roofing Products.	No	No	No

Asphalt Shingle Warranties

1. Identity of Issuing entity	Tamko Roofing Products, Inc.	Tamko Roofing Products, Inc.
2. Title, original publication date, and identifying symbol, if any	"Organic Seal-Down 25 Organic Shingles Limited Warranty"; January 15, 1987; 987480, JP21385	Tamko Roofing Products, Inc. "Metric Laminated Shingles Limited Warranty"; January 1995; 987528, JP28884
3. Products covered	Organic Seal-Down 25	Heritage M40, Heritage M30, Heritage M25
4. Scope of coverage	Tamko warrants that the Tamko shingles are free from manufacturing defects which result in leaks.	Tamko warrants that the Tamko shingles are free from manufacturing defects that result in leaks.
4a. Does the warranty provide coverage for defects in manufacture?	Yes	Yes
4b. Does the warranty provide coverage for defects in application?	No	No
4c. Does the warranty limit coverage to leakage and, if so, what defects or conditions other than leakage are covered?	Yes	Yes
4d. Does the warranty provide coverage for flashings, metal work, or related work that may be affected and/or need to be repaired or removed?	No	No
5. Length of Coverage	25 years: Region A 20 years: Region B (See Item 18 below)	40 years: Heritage M40 30 years: Heritage M30 25 years: Heritage M25
5a. Is the warranty prorated?	Yes	Yes
5b. When does prorating begin?	After one year	After one year
5c. What is the prorating formula?	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 12/480). 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 12/360). 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 12/300).
6. Nature of Remedy	Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have ninety days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God.	For manufacturing defects, Tamko will make repairs or cause repairs to be made, or will replace defective shingles, exclusive of flashings and metal work, as required to prevent leaks resulting directly and solely from manufacturing defects. Tamko will have 90 days after receipt of notification to make or cause to be made repairs or replacements unless otherwise prevented by acts of God.
6a. Does the warranty provide for furnishing of replacement shingles?	Yes	Yes
6b. Does the warranty provide for labor to install replacement shingles?	Yes	Yes
6c. Does the warranty provide for labor to remove defective shingles?	No	No
6d. Does the warranty cover disposal of defective shingles?	No	No
6e. Does the warranty apply to any materials other than shingles?	No	No
7. Is there a monetary limitation?	During the first year, Tamko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be pre-raised and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles).	During the first year, Tamko's maximum liability for manufacturing defects shall be limited to the reasonable replacement cost of the Tamko shingles and their application. After one year, Tamko's maximum liability shall be pre-raised and shall be equal to the product of: (1) the quotient derived by dividing the reasonable replacement cost by the total months of the warranty period multiplied by (2) the difference between the total months of the warranty period minus the total months of service (the number of months from the date of the original application to the date of repair or replacement of the shingles).

8. Specific Exclusions from Coverage (See Warranty Introduction for codes.)	1, 2, 4, 7, 8, 9, 14, 17, 18 (including aliphatic or aromatic solvents, chlorinated hydrocarbon, turpentine, oils, or organic or inorganic polar materials), 19, 23, 24. Warranty also excludes removal or abatement of any asbestos present in the roof to which the shingles are applied, or for any costs related to the removal or abatement.	
9. Wind Coverage/Exclusion	During the first five years after initial application, Tarko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tarko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tarko will repair or replace any such single. Tarko 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, Tarko shingles shall resist damage by winds up to 60 mph after the shingles have had the opportunity to seal down. In situations where Tarko determines that sealing should have occurred but did not, as a result of a manufacturing defect, Tarko will repair or replace any such single. Tarko 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 Tarko 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 Tarko 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 Tarko.	Tarko 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 Tarko.
12. Does the Issuing entity manufacture and/or sell the shingles?	Tarko manufactures and sells the shingles.	Tarko manufactures and sells the shingles.
13. Specific Conditions to Make Warranty Ineffective or Void (See Warranty Introduction for codes.)	C, E, F (See Special Features/Conditions)	C, E, F (California, Hawaii, and Alaska also excluded)
14. Inclusion of Consequential Damages	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. Any assignment, sale, or transfer of the warranty or the building to which the Tarko shingles are applied shall void all warranties.
16. Cost to Obtain	None	None
17. Is the warranty backed by insurance coverage?	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 Tarko.	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 Tarko.
19. Special Features/Conditions	This warranty only applies to shingles applied in certain regions of the country. Because of environmental conditions in Region C, Tarko does not market or recommend Organic Seal-Down 25 shingles in Region C which consists of Alabama, California, Florida, Georgia, Louisiana, Mississippi (certain counties), North Carolina, South Carolina, Texas (certain counties), Virginia and West Virginia. In these states, there is no warranty coverage for Organic Seal-Down 25 and such shingles are sold "as is," without any warranty, expressed or implied. Region A consists of all states other than parts of Arizona, Texas, New Mexico, which are Region B, and those states listed above, which comprise Region C. 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 Tarko, or any other person, other than Tarko's president, has authority to assume for Tarko any additional liability or responsibility.	No action for breach of this limited warranty shall be brought later than one year after any cause of action has accrued. Claims under warranty will require proof of purchase. No representative, employee, or other agent of Tarko, or any other person other than Tarko's president, has authority to assume for Tarko 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.
20. Executed by Owner?	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

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)	NONLAMINATED	X		
C. SIMULATED SLATE (specific type if applicable)			X	X
D. SIMULATED TILE (specific type if applicable)				
E. OTHER				
F. NUMBER OF COLORS AVAILABLE	3	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 5 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	620	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	CONTACT ETERNIT
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
B. MATERIAL				
1. PLYWOOD/WOOD	X	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X	X
3. WAFFERBOARD	X	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	1
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	R. HRUZ 800/233-3155
16B. FOR TECHNICAL INFORMATION, CONTACT:	T. SMITH 800/367-3471	T. SMITH 800/367-3471	T. SMITH 800/367-3471	B. NABHOLZ 800/233-3155
17. SEE APPENDIX IF CHECKED				

NA=not applicable

Fiber-Cement Roof Components

ETERNIT, INC.	ETERNIT, INC.	ETERNIT, INC.	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
ETERNIT ROOFING SLATES ENGLISH	ETERNIT ROOFING SLATES THRUTONE	ETERNIT ROOFING SLATES THRUTONE	ULTRA SLATE	WESTERN SHAKE	AMERICAN TRADITIONAL	HEXAGONAL
X	X	X	X	X	X	X
5	6	6	5	2	4	3
NO	NO	NO	NO	NO	NO	NO
NONASBESTOS FIBER-REINFORCED CEMENT	NONASBESTOS FIBER-REINFORCED CEMENT	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
YES	YES	YES	NO	NO	NO	NO
11 13/16 X 23 5/8 10 13/16 OR 9 13/16 2 OR 4 113 OR 124	9 7/8 X 19 11/16 10 7/8 OR 9 7/8 2 OR 4 169 OR 185	11 13/16 X 23 5/8 10 13/16 OR 9 13/16 2 OR 4 113 OR 124	9.35 X 16 7 2 220 10 510	9.35 X 16 7 2 220 10 550	14 X 30 6 2 80 5 420	16 X 16 13 3 88 4 312
384 OR 422 NAILS YES	400 OR 435 NAILS YES	386 OR 420 NAILS YES	NAILS YES	NAILS YES	NAILS YES	NAILS/STORM ANCHOR NO
5:12	4:12	4:12	5:12 NA	5:12 NA	5:12 NA	5:12 NA
30-LB. FELT	30-LB. FELT	30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT	1 30-LB. FELT
3:12 CONTACT ETERNIT	4:12	4:12	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 X	X X X	X	X	X	X
1984	1984	1984	1976	1976	1952	1976
50,000 +	50,000 +	50,000 +	400,000 +	20,000	160,000	16,000
250 + 1	250 + 1	250 + 1	500 + NO	500 + NO	500 + NO	500 + NO
CLASS A			CLASS A CLASS A	CLASS A CLASS A	CLASS A CLASS A	CLASS B CLASS B
ICBO, METRO-DADE COUNTY						
R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	R. HRUZ 800/233-3155 B. NABHOLZ 800/233-3155	SALES SERVICE 800/223-1948 TECHNICAL SERVICE 800/766-3411	SALES SERVICE 800/223-1948 TECHNICAL SERVICE 800/766-3411	SALES SERVICE 800/223-1948 TECHNICAL SERVICE 800/766-3411	SALES SERVICE 800/223-1948 TECHNICAL SERVICE 800/766-3411

Fiber-Cement Roof Components

1. COMPANY NAME	GAF MATERIALS CORPORATION	JAMES HARDIE BUILDING PRODUCTS INC.	JAMES HARDIE BUILDING PRODUCTS INC.	JAMES HARDIE BUILDING PRODUCTS INC.
2. PRODUCT NAME	DUTCH LAP	HARDISHAKE ROOFING	HARDISLATE ROOFING	HARDISHINGLE ROOFING
3. STYLE				
A. SIMULATED SHINGLE (specific type if applicable)		X		X
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)			X	
D. SIMULATED TILE (specific type if applicable)				
E. OTHER	X			
F. NUMBER OF COLORS AVAILABLE	1	3	4	4
4. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	YES	YES	YES
5. MATERIAL COMPOSITION	CELLULOSE FIBER, PORTLAND CEMENT, SILICA, SILICA FINES	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER	CEMENT, SAND, MINERAL OXIDES, ADDITIVES, CELLULOSE FIBER
6. FACTORY-APPLIED COATING (yes/no)		YES	YES	YES
7. DIMENSIONS AND COVERAGE				
A. DIMENSIONS (inches x inches)	16 X 16	12, 8, AND 6 X 22	8 X 18	12, 8, AND 6 X 18
B. EXPOSURE (inches)	13	10	8	8
C. HEADLAP (inches)	3	12	10	10
D. PIECES PER ROOF SQUARE	92			
E. BUNDLES PER SQUARE	4			
F. WEIGHT PER ROOF SQUARE (ambient temp., pounds)	320	400	400	400
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS/STORM ANCHOR	NAILS ONLY	NAILS ONLY	NAILS ONLY
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)	5:12	3:12	3:12	3:12
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NA	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	1 30-LB. FELT			
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION(inches per foot)	3:12	3:12	3:12	3:12
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	NA	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT	18-IN. NO.-30 ORGANIC FELT
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 30-LB. FELTS	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET	NO.-40 FIBERGLASS OR NO.-72 MINERAL CAP SHEET
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				
3. WAFERBOARD				
4. OTHER (specify)				
11. YEAR PRODUCT FIRST SOLD	1976	1980	1995	1997
12. NUMBER OF SQUARES INSTALLED	16,000	750,000 +	50,000 +	
13. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)	500 +	100 +	100 +	100 +
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 B			
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS B	CLASS A AND B	CLASS A AND B	CLASS A AND B
C. WIND UPLIFT RATING (per UL Standard 580)				
15. ACCEPTED BY THE FOLLOWING CODES		BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES	BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES	BOCA, ICBO, SBCCI, HUD, CITY OF LOS ANGELES
16A. FOR SALES INFORMATION, CONTACT:	SALES SERVICE 800/223-1948	CUSTOMER SERVICE 800/9HARDIE	CUSTOMER SERVICE 800/9HARDIE	CUSTOMER SERVICE 800/9HARDIE
16B. FOR TECHNICAL INFORMATION, CONTACT:	TECHNICAL SERVICE 800/766-3411	TECHNICAL SERVICE 800/9HARDIE	TECHNICAL SERVICE 800/9HARDIE	TECHNICAL SERVICE 800/9HARDIE
17. SEE APPENDIX IF CHECKED				

NA=not applicable

Fiber-Cement Roof Components

LOUISIANA-PACIFIC, INC.	LOUISIANA-PACIFIC, INC.	MAXITILE, INC.	MAXITILE, INC.	MAXITILE, INC.	MAXITILE, INC.	RE-CON BUILDING PRODUCTS INC.
NATURE GUARD CEMENT FIBER SHAKE	NATURE GUARD CEMENT FIBER SLATE	MAXITILE	MAXISLATE	MAXISHAKE	SUPERTILE	FIREFREE RUSTIC SHAKE
X	X	X	X	X	X	X
4	4	6	2	4	2	3
YES	YES	YES	YES	YES	YES	NO
ENGINEERED WOOD FIBER, PORTLAND CEMENT, FLY ASH	ENGINEERED WOOD FIBER, PORTLAND CEMENT, FLY ASH	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CELLULOSE FIBERS, PORTLAND CEMENT, SILICA, AND COLORING OXIDE	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS
YES	YES	YES	YES	YES	YES	NO
12, 7, AND 5 X 22	12 X 22	37 X 24	12, 8, AND 6 X 22	12, 8, AND 6 X 22	72, 84, AND 126 X 42	12, 7, 5 X 22.5
10	10	30 X 20	10	10	66, 78, AND 118	10
12	12	4	12	12	6	12.5
144	144	24	172		3.1, 4.75, AND 5.6	182
12	12		9.6	9.6		14.5
580	580	340	380	380	275	475
NAILS, STAPLES	NAILS, STAPLES	SCREWS, NAILS	NAILS	NAILS	SCREWS & WASHERS	NAILS, STAPLES
YES	YES	YES	YES	YES	YES	YES
4:12	4:12	3:12	3:12	3:12	1:12	4:12
TYPE-30 FELT	TYPE-30 FELT	NA	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT	TYPE-30 FELT "SHAKELINER"
3:12	3:12					3:12
TYPE-30 FELT	TYPE-30 FELT					TYPE-30 FELT "SHAKELINER"
TYPE-15 FELT	TYPE-15 FELT	CLASS A FIRE RATING: TYPE-90 MINERAL SURFACE FELT	CLASS A FIRE RATING: TYPE-40 ORGANIC FELT	CLASS A FIRE RATING: TYPE-40 ORGANIC FELT	CLASS A FIRE RATING: TYPE-90 ORGANIC FELT	TYPE-30 FELT
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X
1995	1997	1986	1992	1990	1986	1993
200,000	200,000	375,000	9,000	45,000	10,000	
200 +	200 +	300 +	300 +	300 +	300 +	200 ±
NO	NO	NO	NO	NO	NO	NO
CLASS A	CLASS A	CLASS A AND B	CLASS A AND B	CLASS A AND B	CLASS A AND B	CLASS A
CLASS A	CLASS A	CLASS A AND B	CLASS A AND B	CLASS A AND B	CLASS A AND B	CLASS A
ICBO, CITY OF LOS ANGELES	ICBO, CITY OF LOS ANGELES	ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO, SBCCI, HUD, CITY OF LOS ANGELES	ICBO	ICBO, CITY OF LOS ANGELES
CUSTOMER SERVICE 800/579-8401	CUSTOMER SERVICE 800/579-8401	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	800/347-3373
CUSTOMER SERVICE 800/579-8401	CUSTOMER SERVICE 800/579-8401	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	T. DELANEY 800/338-TILE	800/347-3373
		X	X	X	X	

Fiber-Cement Roof Components

1. COMPANY NAME	RE-CON BUILDING PRODUCTS INC.	RE-CON BUILDING PRODUCTS INC.	RE-CON BUILDING PRODUCTS INC.
2. PRODUCT NAME	FIREFREE QUARRY SLATE	QUANTUM SHAKE PANEL	QUANTUM SLATE PANEL
3. STYLE			
A. SIMULATED SHINGLE (specific type if applicable)			
B. SIMULATED SHAKE (specific type if applicable)		X	
C. SIMULATED SLATE (specific type if applicable)	X		X
D. SIMULATED TILE (specific type if applicable)			
E. OTHER			
F. NUMBER OF COLORS AVAILABLE	3	3	3
4. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
5. MATERIAL COMPOSITION	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS	CEMENTITIOUS MATERIALS, CELLULOSE FIBERS
6. FACTORY-APPLIED COATING (yes/no)	NO		
7. DIMENSIONS AND COVERAGE			
A. DIMENSIONS (inches x inches)	12 X 22.5	48 X 11.5	48 X 11.5
B. EXPOSURE (inches)	10	9.5	9.5
C. HEADLAP (inches)	12.5	2	2
D. PIECES PER ROOF SQUARE	117	32	32
E. BUNDLES PER SQUARE	14.5	8	8
F. WEIGHT PER ROOF SQUARE (ambient temp., pounds)	475	325	325
G. FASTENERS REQUIRED (nails, staples, or specify)	NAILS, STAPLES		
8. HIP/RIDGE PIECES AVAILABLE? (yes/no)	YES	YES	YES
9. 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 "SHAKELINER"		
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION		TYPE-30 FELT	TYPE-30 FELT
D. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)	3:12		
E. INTERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT "SHAKELINER"		
F. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	TYPE-30 FELT		
10. RECOMMENDED DECKS			
A. TYPES			
1. SOLID SHEATHING	X	X	X
2. SPACED SHEATHING	X		
B. MATERIAL			
1. PLYWOOD/WOOD	X	X	X
2. ORIENTED-STRAND BOARD	X	X	X
3. WAFFERBOARD	X	X	X
4. OTHER (specify)			
11. YEAR PRODUCT FIRST SOLD	1993	1995	1995
12. NUMBER OF SQUARES INSTALLED			
13. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	200 ±	200 ±	200 ±
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	CLASS A
B. FIRE RATING(S) AVAILABLE (per ASTM E108)	CLASS A	CLASS A	CLASS A
C. WIND UPLIFT RATING (per UL Standard 580)			
15. ACCEPTED BY THE FOLLOWING CODES	ICBO, CITY OF LOS ANGELES	ICBO	ICBO
16A. FOR SALES INFORMATION, CONTACT:	800/347-3373	800/347-3373	800/347-3373
16B. FOR TECHNICAL INFORMATION, CONTACT:	800/347-3373	800/347-3373	800/347-3373
17. SEE APPENDIX IF CHECKED			

NA=not applicable

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/MAILABLE 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 SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS NA	STAINLESS STEEL SCREWS RING SHANK NAILS RING SHANK NAILS RING SHANK NAILS RING SHANK NAILS	STAINLESS STEEL SCREWS RING SHANK NAILS 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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X	X X	X X
13. ACCEPTED BY THE FOLLOWING CODES	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	CUSTOM	1	CUSTOM	3	CUSTOM	3	CUSTOM	2	CUSTOM	CUSTOM	CUSTOM
NATIONAL NO	NATIONAL NO	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL YES	NATIONAL NO	NATIONAL YES
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
YES		YES		YES		YES		YES		YES	
13 1/4 X 20		11 1/4 X 18		8 x 18		VARIED		10 X 14		11 1/2 X 15	
13 1/4 X 17		11 1/4 X 15		8 x 14		VARIED X 14		9 X 11		10 3/4 X 12	
81		107		190		VARIED		145		114	
975		900		900		VARIED		950		850	
3:12		4:12		4:12		4:12		4:12		4:12	
30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT		30- OR 40-LB FELT	
2:12		3:12		3:12		3:12		3:12		3:12	
2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED		2 30-LB FELTS NAILED AND SOLID MOPPED	
STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA		STAINLESS STEEL FASTENING SYSTEM 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		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA	
NA		NA		NA		NA		NA		NA	
TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		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 COVER	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			
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)			
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 (Fastening 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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X	X X	X X
13. ACCEPTED BY THE FOLLOWING CODES	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	
YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
12 X 18	8 X 18	8 1/2 X 18	8 X 18	6 1/2, 7 1/4, 8 1/2 & 9 X 14		17 X 10		17 X 10		17 X 10	
14 1/2 X 14		10 3/4 X 14		6-10		14 X 9		14 X 9		14 X 9	
142		192		308-185		143		142		142	
1,080		1,250		1,510-907		975		1,036		1,095	
4:12 30- OR 40-LB FELT		4:12 30- OR 40-LB FELT				4.5:12 40-LB FELT		4.5:12 40-LB FELT		4.5:12 40-LB FELT	
3:12 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							
STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS NA		STAINLESS STEEL FASTENING SYSTEM TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS TILE TIE OR NONCORROSIVE NAILS		NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
NA		NA				NAILS/CLIPS		NAILS/CLIPS		NAILS/CLIPS	
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				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	HUGUENOT FENAL	HUGUENOT 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 3 NATIONAL YES YES	RUSTIC NATURAL 1 NATIONAL YES YES	NATURAL 5 3 NO NO
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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X	X X	X X
13. ACCEPTED BY THE FOLLOWING CODES			METRO-DADE 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	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
18 1/2 X 10 1/2		13 1/4 X 9 3/4		14 X 9		14 X 9		14 X 9		14 X 9	
15		10 1/4 X 8 1/4		11 X 8 1/4		11 X 8 1/4		11 X 8 1/4		11 X 8 1/4	
150		171		158		158		158		158	
800		900		800		800		800		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		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	
1986		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 (Fastening 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 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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X X	X X X	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	28	1	28	1	28	1	28	1	28	1	28
NATIONAL NO YES	NATIONAL YES YES	NATIONAL NO YES	NATIONAL YES YES	NATIONAL NO YES	NATIONAL YES YES	NATIONAL NO YES	NATIONAL YES YES	NATIONAL NO YES	NATIONAL YES YES	NATIONAL NO YES	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 28 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 (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	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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X	X X	X X
13. ACCEPTED BY THE FOLLOWING CODES	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	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
13 1/4 X 8 3/4		15 X 7		15 X 8		12 X 7		12 X 7		12 X 6	
10 1/8 X 7 3/4		6 1/2 X 7		6 1/2 X 8		5 X 7		5 X 7		5 X 6	
182		317		276		412		412		480	
810		1,600		1,475		1,600		1,840		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		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		NA	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1920		1920		1900		1900		1900		1900	
>50,000		>50,000		>20,000		>5,000		>50,000		>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		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453	
X		X		X		X		X		X	

Clay Tile

1. COMPANY NAME	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.	LUDOWICI ROOF TILE, INC.
2. PRODUCT NAME	CALAIS	XL WILLIAMSBURG	XL AMERICANA
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	HAND SPLIT SHAKE NATURAL GLAZE 1 NATIONAL NO YES	TREE BARK NATURAL GLAZE 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)	15 X 7 6 1/2 X 7 317 1,600	16 X 10 7/8 13 X 10 1/8 109 750	16 X 10 7/8 13 X 10 1/8 109 750
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 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 (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	1993	1996	1996
10. NUMBER OF SQUARES INSTALLED	< 5,000	> 10,000	> 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 C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X	X X	X X
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL	ICBO (4872), UBC, METRO-DADE COUNTY, FL
14A. FOR SALES INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/945-8453	800/945-8453	800/945-8453
15. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Clay Tile

LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		LUDOWICI ROOF TILE, INC.		M.C.A CLAY TILE	
18" SBM		18" SPANISH		XL CLASSIC		XL LANAI		PALM BEACH TAPERED MISSION		ONE-PIECE "S"	
X		X		X		X		X		X	
FINE MACHINE SCORED		SMOOTH/SANDED		SMOOTH		SANDED		SMOOTH/SANDED		SMOOTH	
NATURAL GLAZE	CERAMIC	NATURAL GLAZE	CERAMIC	NATURAL GLAZE	CERAMIC	NATURAL GLAZE	CERAMIC	NATURAL GLAZE	CERAMIC	NATURAL GLAZE	CERAMIC
1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	1 NATIONAL NO YES	28 NATIONAL YES YES	15 NATIONAL YES YES	12 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
18 X 8		18 X 9 3/4		16 X 10 7/8		16 X 10 7/8				19 X 14	
15 X 5 3/4		15 X 8 1/4		13 X 10 1/8		13 X 10 1/8				16 X 12	
166		116		109		109				75	
1095		754		750		750				788	
5:12		4:12		3:12		3:12		4:12		3:12	
40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		40-LB FELT		30-LB FELT	
< 5:12		< 4:12		< 3:12		< 3:12		< 4:12		< 3:12	
WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		WINTERGUARD OR BUILT-UP ROOFING		2 30-LB FELTS MOPPED BETWEEN LAYERS	
STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		STAINLESS STEEL SHEET METAL SCREWS		SCREW NAILS	
11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		11-GAUGE RING SHANK COPPER NAILS		RING SHANK NAILS	
11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		11-GAUGE SMOOTH-SHANK COPPER NAILS		SMOOTH SHANK NAILS	
NA		NA		NA		NA		NA		NA	
NA		NA		NA		NA		NA		RING SHANK NAILS	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA		NA		NA		NA		NA	
1996		1996		1996		1996		1997		1985	
>10,000		>10,000		>10,000		>10,000		>2,000		500,000	
10		10		10		10		10		240	
58		58		58		58		58		NO	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4872), UBC, METRO-DADE COUNTY, FL		ICBO (4202), LOS ANGELES COUNTY, METRO-DADE COUNTY, FL	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/736-6221	
800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/945-8453		800/736-6221	
X		X		X		X		X			

Clay Tile

1. COMPANY NAME	M.C.A CLAY TILE	M.C.A CLAY TILE	M.C.A CLAY TILE
2. PRODUCT NAME	STRAIGHT BARREL MISSION	CLASSIC TAPERED MISSION	ORIENTAL
3. TILE TYPE			
B. STRAIGHT BARREL MISSION, TWO PIECE	X		
C. TAPERED MISSION, TWO PIECE		X	
D. FLAT, ONE PIECE			
E. FLAT, INTERLOCKING, ONE PIECE			
F. FLAT PAN AND COVER, TWO PIECE			
4. TILE DESCRIPTION			
A. TEXTURE (specify or NA)	SMOOTH	SMOOTH	
B. FINISHES	NATURAL CERAMIC GLAZE	NATURAL CERAMIC GLAZE	NATURAL CERAMIC GLAZE
1. NUMBER OF COLORS AVAILABLE	15	15	1
2. COLOR AVAILABILITY (regional/national)	NATIONAL	NATIONAL	NATIONAL
3. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	YES	YES	YES
4. CUSTOM SHAPES AVAILABLE (yes/no)	YES	YES	NO
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE			
A. TILE DIMENSIONS (inches x inches)	19 X 10	19 X 7 1/4 TAPERS TO 6 1/4	12 X 12
B. EXPOSED SIZE (inches x inches)	16 X 13.5	16 X 10	10 1/2 X 9 1/2
C. PIECES PER ROOF SQUARE	134	180	144
D. WEIGHT PER ROOF SQUARE (pounds)	1,005	900	864
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS			
A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot)	3:12	3:12	3:12
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	30-LB FELT	30-LB FELT	30-LB FELT
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA)	< 3:12	< 3:12	< 3:12
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	2 30-LB FELTS MOPPED BETWEEN LAYERS	2 30-LB FELTS MOPPED BETWEEN LAYERS	2 30-LB FELTS MOPPED BETWEEN LAYERS
8. DECKS AND FASTENING RECOMMENDATIONS (Fasteneing system in normal application or NA)			
A. METAL	SCREW NAILS	SCREW NAILS	SCREW NAILS
B. PLYWOOD	RING SHANK NAILS	RING SHANK NAILS	RING SHANK NAILS
C. WOOD PLANK	SMOOTH SHANK NAILS	SMOOTH SHANK NAILS	SMOOTH SHANK NAILS
D. ORIENTED-STRAND BOARD	NA	NA	NA
E. WAFERBOARD	RING SHANK NAILS	RING SHANK NAILS	RING SHANK NAILS
F. GYPSUM/MAILABLE CONCRETE	SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS
G. OTHER (specify)	NA	NA	NA
9. YEAR PRODUCT FIRST SOLD	1985	1985	1902
10. NUMBER OF SQUARES INSTALLED	500,000	< 10,000	> 1 MILLION
11. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	240	240	170
B. DIRECT (number of regional service locations or no)	NO	NO	NO
12. TECHNICAL INFORMATION			
COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none)			
GRADE 1 Providing resistance to severe frost action	X	X	X
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	X	X	
TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5			X
TYPE III All other tiles, including flat			
13. ACCEPTED BY THE FOLLOWING CODES	ICBO (4202), LOS ANGELES COUNTY	ICBO (4202), LOS ANGELES COUNTY	ICBO (4202), LOS ANGELES COUNTY
14A. FOR SALES INFORMATION, CONTACT:	800/736-6221	800/736-6221	800/736-6221
14B. FOR TECHNICAL INFORMATION, CONTACT:	800/736-6221	800/736-6221	800/736-6221
15. SEE APPENDIX IF CHECKED			X

NA=not applicable

Clay Tile

M.C.A CLAY TILE		M.C.A CLAY TILE		SANDTOFT ROOF TILES		SANDTOFT ROOF TILES		SANTAFÉ TILE CORP.		SANTAFÉ TILE CORP.	
MF108 FLAT		TURRET TILE		COUNTY PAN TILE		GOXHILL HANDMADE		SANTAFÉ "S"		SANTAFÉ "MISSION BARREL"	
X				X		X		X		X	
						X					
		SMOOTH		SMOOTH		RUSTIC		SMOOTH/RUSTIC		SMOOTH/RUSTIC	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
1 NATIONAL YES NO	10 NATIONAL YES NO	15 NATIONAL YES YES	CUSTOM NATIONAL YES YES	7 NATIONAL NO NO		3 NATIONAL YES NO		1 NATIONAL YES YES	15 NATIONAL YES YES	1 NATIONAL YES YES	11 NATIONAL YES YES
YES		YES		YES		YES		YES		YES	
13 3/4 X 13 3/4 11 1/8 X 12 108 850				14 3/4 X 10 3/4 12 X 9 135 850		10 1/2 X 6 1/2 4 1/2 X 6 1/2 492 1,250		18 X 11 15 X 10 96 872		18 X 9 TAPERS TO 8 160 864	
3:12 30-LB FELT		3:12 2 30-LB FELTS MOPPED		4:12 30-LB FELT		8:12 30-LB FELT		4:12 30 OR 40-LB. FELT		4:12 30 OR 40-LB. FELT	
< 3:12 2 30-LB FELTS MOPPED BETWEEN LAYERS		< 3:12 MODIFIED BITUMEN BASE SHEET						3:12 2 30-LB. FELTS MOPPED BETWEEN LAYERS		3:12 2 30-LB. FELTS MOPPED BETWEEN LAYERS	
SCREW NAILS		SCREW NAILS		STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS AND CLIPS		STAINLESS STEEL SCREWS		STAINLESS STEEL SCREWS	
RING SHANK NAILS		RING SHANK NAILS		RING SHANK AND CLIPS		RING SHANK AND CLIPS		RING SHANK NAIL AND HURRICANE SPIKE		RING SHANK NAIL AND HURRICANE SPIKE	
SMOOTH SHANK NAILS		SMOOTH SHANK NAILS		RING SHANK				SMOOTH SHANK NAILS		SMOOTH SHANK NAILS	
NA		NA						NA		NA	
RING SHANK NAILS		RING SHANK NAILS						RING SHANK NAILS		RING SHANK NAILS	
SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		STAINLESS STEEL/SILICON BRONZE SCREW SHANK NAILS		RING SHANK				SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS		SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	
NA		NA									
1984		1993		1981		1981		1954		1954	
100,000				450,000		26,000		7,500,000		7,300,000	
170 NO		240 NO		35		35		75		75	
X		X		X		X		X		X	
X		X		X		X		X		X	
ICBO		ICBO						METRO-DADE COUNTY, FL		METRO-DADE COUNTY, FL	
800/736-6221		800/736-6221		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002	
800/736-6221		800/736-6221		S. MATTHEWS 905/627-4035		S. MATTHEWS 905/627-4035		D. BERNAL 305/885-9002		D. BERNAL 305/885-9002	
		X									

Clay Tile

1. COMPANY NAME	SANTAFÉ TILE CORP.	U.S. TILE CO.	U.S. TILE CO.
2. PRODUCT NAME	SANTAFÉ "ROYAL"	"S" TILE	CLAYLITE LIGHTWEIGHT "S" TILE
3. TILE TYPE 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	
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/RUSTIC NATURAL CERAMIC GLAZE 1 NATIONAL YES YES 15 NATIONAL YES YES	SMOOTH AND RUSTIC NATURAL CERAMIC GLAZE 17 REGIONAL YES NO REGIONAL YES NO	SMOOTH NATURAL CERAMIC GLAZE 6 REGIONAL NO NO REGIONAL NO NO
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)	YES	YES	YES
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. EXPOSED SIZE (inches x inches) C. PIECES PER ROOF SQUARE D. WEIGHT PER ROOF SQUARE (pounds)	18 X 11 15 X 10 96 672	13 X 18 11 X 15 88 800	13 X 18 11 X 15 88 595
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 MOPPED BETWEEN LAYERS	3:12 TYPE-30 FELT <3:12 BUILT-UP ROOF	3:12 TYPE-30 FELT <3:12 BUILT-UP ROOF
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 SCREWS RING SHANK NAIL AND HURRICANE SPIKE SMOOTH SHANK NAILS NA RING SHANK NAILS SPIRAL THREAD STAINLESS STEEL/SILICON BRONZE NAILS	TILE TIE SYSTEM NAILS NAILS NAILS NAILS TILE TIE SYSTEM	TILE TIE SYSTEM NAILS NAILS NAILS NAILS TILE TIE SYSTEM
9. YEAR PRODUCT FIRST SOLD	1954	1974	1993
10. NUMBER OF SQUARES INSTALLED	75,000	3.4 MILLION	50,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)		170 NO	170 NO
12. TECHNICAL INFORMATION COMPLIES WITH ASTM STANDARD C1167-96 STANDARD SPECIFICATION FOR CLAY ROOF TILE (check grade and type or enter none) GRADE 1 Providing resistance to severe frost action GRADE 2 Providing resistance to moderate frost action GRADE 3 Providing negligible resistance to any frost action TYPE I High-profile: rise-to-width ratio greater than 1:5 TYPE II Low-profile: rise-to-width ratio equal to or less than 1:5 TYPE III All other tiles, including flat	X X X	X X X	X X X
13. ACCEPTED BY THE FOLLOWING CODES	METRO-DADE COUNTY, FL	ICBO (3523)	ICBO (3523)
14A. FOR SALES INFORMATION, CONTACT:	D. BERNAL 305/885-9002	909/737-0200	909/737-0200
14B. FOR TECHNICAL INFORMATION, CONTACT:	D. BERNAL 305/885-9002	909/737-0200	909/737-0200
15. SEE APPENDIX IF CHECKED			

NA=not applicable

Clay Tile

U.S. TILE CO.		U.S. TILE CO.	
CLAY MAX TWIN-S		TAPERED MISSION TILE	
		X	
X			
SMOOTH AND RUSTIC		SMOOTH AND RUSTIC	
NATURAL	CERAMIC GLAZE	NATURAL	CERAMIC GLAZE
6		17	
NATIONAL		REGIONAL	REGIONAL
		YES	NO
		YES	NO
YES		YES	
13 X 15		8 X 18	
12 X 15		8 X 15	
88		172	
580		1,000	
3:12		3:12	
TYPE-30 FELT		TYPE-30 FELT	
<3:12		<3:12	
BUILT-UP ROOF		BUILT-UP ROOF	
TILE TIE SYSTEM		TILE TIE SYSTEM	
NAILS		NAILS	
NAILS		NAILS	
NAILS		NAILS	
NAILS		NAILS	
TILE TIE SYSTEM		TILE TIE SYSTEM	
1995		1974	
600,000		1.6 MILLION	
170		170	
NO		NO	
X		X	
X		X	
ICBO (3523)		ICBO (3523)	
909/737-0200		909/737-0200	
909/737-0200		909/737-0200	

TILE

NA=not applicable

Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
COLONIAL SLATE	CHATEAU	SUPERSHAKE	CLASSIC CAPRI	SIERRA SHAKE	BLENDED MISSION	BLENDED SHINGLE
X			X		X	X
	X	X		X		
NO SURFACE	YES SURFACE	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 89 900	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 93.5 950
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	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	SANTA FE MISSION	SANTA FE SHINGLE	CLASSIC MISSION	TAOS MISSION
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	X	X	X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	NO THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES	YES THROUGH-COLOR NATIONAL YES
5. ACCESSORY TILES AVAILABLE [e.g., ridge, hip, starter] (yes/no)				
6. DIMENSIONS AND COVERAGE A. TILE DIMENSIONS (inches x inches) B. MINIMUM HEADLAP (inches) C. EXPOSURE (inches) D. PIECES PER ROOF SQUARE E. WEIGHT PER ROOF SQUARE (pounds)	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890	17 X 12 3/8 3 14 89 890
7. SLOPE/UNDERLAYMENT RECOMMENDATIONS A. MINIMUM SLOPE RECOMMENDED FOR NORMAL APPLICATION (inches per foot) B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot or NA) D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION	3:12 30-LB FELT 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 30-LB FELT 2 15-LB FELTS HOT MOPPED, VERTICAL COUNTER BATTENS
8. RECOMMENDED DECKS AND FASTENING REQUIREMENTS A. DECK TYPES 1. SOLID SHEATHING 2. SPACED SHEATHING B. DECK MATERIAL 1. PLYWOOD/WOOD 2. ORIENTED STRAND BOARD 3. WAFERBOARD 4. OTHER (specify) C. FASTENING REQUIREMENTS 1. BATTENS REQUIRED [at given slope(s), no, or NA] a. SOLID SHEATHING b. SPACED SHEATHING 2. NAILING REQUIREMENTS, FIELD TILES a. SOLID/SPACED SHEATHING WITH BATTENS [slope(s) or NA] not required each tile, alternate rows each tile b. SOLID/SPACED SHEATHING WITHOUT BATTENS [slope(s) or NA] not required each tile, alternate rows each tile	X X X X 3:12 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 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 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 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

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

Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	TRULITE LIGHTWEIGHT CONCRETE TILE	TRULITE LIGHTWEIGHT CONCRETE TILE	COUNTRY SPLIT-SHINGLE	COUNTRY SPLIT-SHAKE
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	X	X	X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	NO THROUGH-COLOR REGIONAL NO	NO THROUGH-COLOR REGIONAL NO	THROUGH-COLOR NATIONAL	THROUGH-COLOR NATIONAL
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 93.5 595	17 X 12 3/8 3 14 94 650	17 X 12 3/8 3 14 93.5 1,035	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 TYPE-30 FELT 3:12 2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 TYPE-30 FELT 3:12 2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 TYPE-30 FELT 3:12 2 TYPE-15 FELTS HOT MOPPED, VERTICAL COUNTER BATTENS	3:12 TYPE-30 FELT 3:12 2 TYPE-15 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 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 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 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 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:	P. SULLIVAN 909/822-4407	P. SULLIVAN 909/822-4407	B. SESULKA 909/822-4407	B. SESULKA 909/822-4407
13B. FOR TECHNICAL INFORMATION, CONTACT:	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438	J. VANDEWATER 909/428-4438
14. SEE APPENDIX IF CHECKED		X		

NA=not applicable

Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
MISSION "S"	MISSION "S" DESERT	VILLA	VILLA	PREMIUM DURALITE VILLA	SHAKE	SHAKE
X	X	X	X	X	X	X
NO SURFACE 60 NATIONAL YES YES	NO THROUGH-COLOR 30 NATIONAL YES YES	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
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	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
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 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
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 & > 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	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
ALL 1982 > 3 MILLION	ALL 1982 > 1 MILLION	ALL 1968 > 2 MILLION	ALL 1968 > 1 MILLION	ALL > 400,000	ALL > 2,000,000	ALL > 2,000,000
8	8	10	10	2	10	10
ICBO, SBCCI, BOCA, METRO-DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093)	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY
D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605

III

NA=not applicable

Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
ROMA	ROMA	SLATE	HOMESTEAD	HOMESTEAD	SPLIT SHAKE	VANGUARD ROLL
X	X	X	X	X	X	X
NO SURFACE 12 NATIONAL YES YES	NO THROUGH-COLOR 15 NATIONAL NO YES	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
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 90 800	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
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 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	< 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
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	> 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	ALL
ALL	ALL	ALL	ALL	ALL	ALL	ALL
1965	1985	1972	1978	1978	1980	1988
> 200,000	400,000	800,000	> 1.5 MILLION	> 1.5 MILLION	> 100,000	50,000
3	3	10	10	10	3	4
ICBO (2093)	ICBO (2093)	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, ETRO-DADE COUNT	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	ICBO (2093), SBCCI, BOCA, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY
D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. HUISKEN 714/756-1605 D. HUISKEN 714/756-1605	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200

Concrete Tile

1. COMPANY NAME	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE
2. PRODUCT NAME	VANGUARD FLAT	VANGUARD FLAT	BERMUDA FLAT	BERMUDA FLAT
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE 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 10 REGIONAL NO	NO THROUGH-COLOR 10 REGIONAL NO	YES THROUGH-COLOR 50 REGIONAL YES	YES SURFACE 1 REGIONAL
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 13 990	16 1/2 X 13 990	16 X 9 2 14 120 960	16 X 9 2 14 120 960
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 43-LB BASE SHEET 2:12 30-LB FELT + 90-LB FELT, HOT MOPPED	3:12 43-LB BASE SHEET 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, 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. 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 ALL	X X ALL	X X NA	X X NA
9. YEAR PRODUCT FIRST SOLD	1988	1988	1958	1958
10. NUMBER OF SQUARES INSTALLED	15,000	15,000	> 3 MILLION	> 1 MILLION
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	4	4	4	4
12. ACCEPTED BY THE FOLLOWING CODES	SBCCI, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY	SBCCI, METRO- DADE COUNTY
13A. FOR SALES INFORMATION, CONTACT:	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200	D. BALDWIN 407/338-8200
13B. FOR TECHNICAL INFORMATION, CONTACT:	R. MOODY 407/338-8200	R. MOODY 407/338-8200	R. MOODY 407/338-8200	R. MOODY 407/338-8200
14. SEE APPENDIX IF CHECKED			X	X

NA=not applicable

Concrete Tile

MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	MONIER LIFETILE	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED
BARREL	BARREL	SPANISH "S"	SPANISH "S"	CEDARLITE	MARLEY CLASSIC TILE	MARLEY CONTEMPRA TILE
X	X	X	X		X	X
				X		
YES THROUGH-COLOR 20 REGIONAL YES YES	NO THROUGH-COLOR 20 REGIONAL	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
18 X 9 2 1/2 15 1/2 140 1,050	18 X 19 2 1/2 15 1/2 140 1,050	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
3:12 30-LB FELT + 90-LB FELT, HOT MOPPED	3:12 30-LB FELT + 90-LB FELT, HOT MOPPED	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
2:12 30-LB FELT + 90-LB FELT, ALL HOT MOPPED	2:12 30-LB FELT + 90-LB FELT, ALL HOT MOPPED	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	> 7:12	> 7:12	NA NA	ALL NA	ALL NA
NA	NA	ALL	ALL	NA	7:12-11:12 12:12 +	7:12-11:12 12:12 +
NA 1958 > 1 MILLION	NA 1958 > 1 MILLION	ALL 1965 > 1 MILLION	ALL 1965 > 1 MILLION	ALL 1995 150,000	NA NA 1920	NA NA 1920
4 SBCCI, METRO- DADE COUNTY	4 SBCCI, METRO- DADE COUNTY	4 SBCCI, METRO- DADE COUNTY	4 SBCCI, METRO- DADE COUNTY	200 NO ICBO (2093), SBCCI, SFBC	30 NO	30 NO
D. BALDWIN 407/338-8200 R. MOODY 407/338-8200 X	D. BALDWIN 407/338-8200 R. MOODY 407/338-8200 X	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

Concrete Tile

1. COMPANY NAME	STIRLING BUILDING PRODUCTS LIMITED	STIRLING BUILDING PRODUCTS LIMITED	WESTILE	WESTILE
2. PRODUCT NAME	MARLEY CASTILLE TILE	MARLEY SHAKE TILE	SERIES 1000-1 SHAKE	SERIES 1000-1 FEATHERSTONE RANDOM-CUT
3. TILE TYPE A. "S" (SPANISH) MISSION BARREL B. DOUBLE "S" C. FLAT, SHINGLE- (SLATE-) SHAPE D. FLAT, SHAKE-SHAPE E. FLAT, RIBBED	X	X	X	X
4. TILE DESCRIPTION A. TEXTURED (yes/no) B. COLOR PRODUCTION (surface or through-color) C. NUMBER OF COLORS AVAILABLE D. COLOR AVAILABILITY (regional/national) E. CUSTOM COLORS/BLENDS AVAILABLE (yes/no)	NO THROUGH 3 NATIONAL YES	YES THROUGH 3 NATIONAL YES	YES THROUGH-COLOR 7 NATIONAL YES	NO THROUGH-COLOR 13 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)	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 X 16 1/2 3 13 1/2 88 950	13 X 16 1/2 3 13 1/2 88 690
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 TYPAR 30	4:12 TYPAR 30	3:12 30-OR 43-LB FELT	3:12 30-OR 43-LB FELT
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 ALL NA 7:12-11:12 12:12 + NA NA	X X X X ALL NA 7:12-11:12 12:12 + NA NA	X X X X < 3:12 TO 24:12 NO 3:12 TO 5:12 > 5:12 TO 12:12 12:12 AND OVER NA NA	X X X X < 3:12 TO 24:12 NO ALL PITCHES NA NA
9. YEAR PRODUCT FIRST SOLD	1988	1988	1982	1993
10. NUMBER OF SQUARES INSTALLED			150,000	100,000
11. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	30 NO	30 NO	190 NO	190 NO
12. ACCEPTED BY THE FOLLOWING CODES			ICBO (3984)	ICBO (3984)
13A. FOR SALES INFORMATION, CONTACT: 13B. FOR TECHNICAL INFORMATION, CONTACT:	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094	P. MCCORMACK 800/268-5094 P. MCCORMACK 800/268-5094	G. MANLOVE 800/433-8453	G. MANLOVE 800/433-8453
14. SEE APPENDIX IF CHECKED	X	X		

NA=not applicable

Concrete Tile

WESTILE	WESTILE
SERIES 1000-1 SLATE	SERIES #2000 DOUBLE ROMAN
X	X
NO THROUGH-COLOR 16 NATIONAL YES YES	NO THROUGH-COLOR 18 NATIONAL YES YES
13 X 16 1/2 3 13 1/2 88 950	13 X 16 1/2 3 13 1/2 90 920
3:12 30-OR 43-LB FELT	3:12 30-OR 43-LB FELT
< 3:12 BITHUTHAYNE	< 3:12 BITHUTHAYNE
X	X
X	X
< 3:12 TO 24:12 NO	< 3:12 TO 24:12 NO
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
NA NA NA 1982	NA NA NA 1982
150,000	100,000
190 NO	190 NO
ICBO (3984)	ICBO (3984)
G. MANLOVE 800/433-8453	G. MANLOVE 800/433-8453

METAL ROOF COMPONENTS

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)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)	WOOD			
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)			SNAP-ON BATTEN STANDING SEAM	
3.2 COMPONENT TYPE AND SIZE				
A. PANEL (width (in.), maximum length (ft.))			12, 16, 18, 20, 24 X 50	
B. INDIVIDUAL (dimensions: inches x inches)	12 X 48			
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER, MILL
STAINLESS STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
GALVALUME (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
ALUMINIZED STEEL (ga.)			22, 26	KYNAR 500, SILICON POLYESTER
ALUMINUM (in.)	0.019	HYLAR 5000, KYNAR 500	0.19, 0.32, 0.40	KYNAR 500, SILICON POLYESTER
COPPER (oz.)			16, 20	MILL
TERNE METAL (ga.)			22, 26	MILL
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	4:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12			
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD			X	
DECKING NOT REQUIRED			X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT OR EQUIVALENT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
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, 22	KYNAR 500
0.032, 0.040	KYNAR 500	0.032	KYNAR 500	0.032, 0.040	KYNAR 500
16		16		16	
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
		2	N		
1 1/4	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 > 100,000 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 ² @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 500	0.032, 0.40	KYNAR 500
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	2:12		2:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	2:12		2:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED	X		X	
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT 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

METAL

Metal Roof Components

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

NA=not applicable

Metal Roof Components

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

Metal Roof Components

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

NA=not applicable

Metal Roof Components

BERRIDGE MANUFACTURING CO. CLASSIC SHINGLE		BERRIDGE MANUFACTURING CO. S-TILE		CARTER HOLT HARVEY ROOFING INC. DECRA TILE	
FLAT WITH SCULPTURED DESIGN-RESTORATION		S-TILE		SPANISH BARREL	
9 X 12		32 11/16 X 40		16 7/12 X 52 1/4	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500, UNFINISHED, HYLAR 5000	24	KYNAR 500, HYLAR 5000		
24					
24	KYNAR 500, UNFINISHED HYLAR 5000	24	KYNAR 500, HYLAR 5000	26	STONE CHIP
16					
6:12		3:12		3:12 2 1/2:12	
X		X		X	
30-LB FELT		30-LB FELT		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					
151 9 X 12 133				140 14 1/2 X 49 1/2 20	
CONCEALED NAILS 2				EXPOSED NAIL OR SCREW 3.5	
INTERLOCK NO				INTERLOCK NO	
1970 > 1,000 DISTRIBUTORS, DIRECT 7 YES D. DOYLE 800/231-8127 B. MARKS 800/231-8127		1993 DISTRIBUTORS, DIRECT 7 YES 800/231-8127 800/231-8127		1957 DIRECT 12 YES M.R. TWEDELL 817/695-1090 J. WILSON 909/292-8180	
NONE		NONE			
NONE		NONE			
CLASS A		CLASS A		CLASS A, B, C	
NONE					
				X	

Metal Roof Components

1. COMPANY NAME	CARTER HOLT HARVEY ROOFING INC.		CARTER HOLT HARVEY ROOFING INC.	
2. PRODUCT NAME	DECRA SHAKE		DECRA SLATE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)	HAND SPLIT SHAKE			
C. SIMULATED SLATE (specific type if applicable)			SLATE	
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL (width (in.), maximum length (ft.))				
B. INDIVIDUAL (dimensions: inches x inches)	13 1/2 X 53		16 1/2 X 51 1/2	
3.3 MATERIALS, THICKNESSES, AND FINISHES				
GALVANIZED STEEL (ga.)	THICKNESSES	FINISHES	THICKNESSES	FINISHES
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	26	STONE CHIP	26	STONE CHIP
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.)	2 1/2:12		2 1/2:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X		X	
DECKING NOT REQUIRED	X		X	
D. UNDERLAYMENT RECOMMENDED (type or NA)				
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)	140		140	
B. EXPOSURE (inches)	12 5/8 X 50 1/2		12 5/8 X 49	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	22.6		23.3	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED		EXPOSED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAIL OR SCREW		NAIL OR SCREW	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	3.5		3.5	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	YES		YES	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1992		1996	
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	12		12	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		YES	
FOR SALES INFORMATION, CONTACT:	M.R. TWEDELL 817/695-1090		M.R. TWEDELL 817/695-1090	
FOR TECHNICAL INFORMATION, CONTACT:	J. WILSON 909/292-8180		J. WILSON 909/272-8180	
8. ASTM E331 WATER INFILTRATION TEST RESULTS				
9. ASTM E283 AIR INFILTRATION TEST RESULTS				
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A, B, C			
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION				
12. SEE APPENDIX IF CHECKED	X		X	

NA=not applicable

METAL

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Metal Roof Components

1. COMPANY NAME	CLASSIC PRODUCTS, INC.		CLASSIC PRODUCTS, INC.	
2. PRODUCT NAME	ROUGH SHAKE		CHATEAU SLATE	
3. CONFIGURATION				
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)	X		X	
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 60		8 X 12	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES				
GALVANIZED STEEL (ga.)	THICKNESSES	FINISHES	THICKNESSES	FINISHES
STAINLESS STEEL (ga.)			28	KYNAR
GALVALUME (ga.)				
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.019	KYNAR	0.019, .032	KYNAR
COPPER (oz.)			12	
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	3:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		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)	38		45 ALUMINUM; 105 STEEL, COPPER	
B. EXPOSURE (inches)	12 X 80		8 X 12	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	20		132	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS		NAILS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	5		2	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	NO		NO	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1964		1992	
B. NUMBER OF SQUARES INSTALLED	0		5,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS				
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J. KNIFE 800/543-8938		J. KNIFE 800/543-8938	
FOR TECHNICAL INFORMATION, CONTACT:	D. MILLER 800/543-8938		D. MILLER 800/543-8938	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Roof Components

METAL

Metal Roof Components

1. COMPANY NAME	GERARD ROOFING TECHNOLOGIES		GERARD ROOFING TECHNOLOGIES	
2. PRODUCT NAME	GERARD SHAKE		GERARD TILE	
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)			X	
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]				
B. INDIVIDUAL (dimensions: inches x inches)	44 3/4 X 15 1/2		45 3/4 X 15 1/2	
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	STONE COATED	26	STONE COATED
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	26	STONE COATED	26	STONE COATED
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.)	2 1/2:12		2 1/2:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	2 1/2:12		2 1/2:12	
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)	140		140	
B. EXPOSURE (inches)	42 3/4 X 14 1/2		43 3/4 X 14 1/2	
C. COVERAGE (approx. no. of pieces per square at listed exposure)	23.2		22.6	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED		EXPOSED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)	NAILS OR SCREWS		NAILS OR SCREWS	
3. NUMBER OF FASTENERS PER PIECE (number or NA)	5		5	
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)	INTERLOCK		INTERLOCK	
C. ADHESIVE/SEALANT REQUIRED (yes/no)	NO		NO	
D. SUPPORT BATTENS REQUIRED (yes/no)	YES		YES	
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1989		1971	
B. NUMBER OF SQUARES INSTALLED	> 200,000		> 1 MILLION	
C. METHOD OF DISTRIBUTION (distributors, direct)	DIRECT		DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	2		2	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	J.T. BROWN	800/341-3213	J.T. BROWN	800/341-3213
FOR TECHNICAL INFORMATION, CONTACT:	J. MAREK	800/841-3213	J. MAREK	800/841-3213
8. ASTM E331 WATER INFILTRATION TEST RESULTS				
9. ASTM E283 AIR INFILTRATION TEST RESULTS				
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A, B, C		CLASS A, B, C	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION				
12. SEE APPENDIX IF CHECKED				

NA=not applicable

METAL

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Metal Roof Components

1. COMPANY NAME	MBCI		MCELROY METAL INC.	
2. PRODUCT NAME	LOKSEAM		MEDALLION I & 2	
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: VERTICAL LEG PANEL		STANDING SEAM: BATTEN CAP	
A. PANEL [width (in.), maximum length (ft.)]	10, 12, 18 X 40		12 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)				
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	22, 24, 26	BARE-SIGNATURE SERIES 200, 300, 400	24	SILICONIZED POLYESTER, KYNAR 500, BARE
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)	0.032	BARE-SIGNATURE SERIES 200, 300, 300 METALLIC		
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	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	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	1990		1990	
B. NUMBER OF SQUARES INSTALLED			> 1,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	16		6	
E. LICENSED APPLICATOR AGREEMENT (yes/no)	NO		NO	
FOR SALES INFORMATION, CONTACT:	W. DICKINSON		K. GIESEKE 800/951-6531	
FOR TECHNICAL INFORMATION, CONTACT:	T. WOLFE		E. OSTEN 800/950-6531	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	1.57 PSF-LEAKAGE RATE/NONE		NO LEAKAGE AT 12 PSF	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	1.57 PSF-LEAKAGE RATE: 0.009 (18"), 0.013 (12"), 0.016 (10")		0.005 AT 12 PSF	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)			NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

METAL.

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Metal Roof Components

1. COMPANY NAME	METAL SALES MANUFACTURING CORP.		METAL SALES MANUFACTURING CORP.	
2. PRODUCT NAME	5V CRIMP		PRO-PANEL 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	ARCHITECTURAL		CORRUGATED	
A. PANEL [width (in.), maximum length (ft.)]	26 X 40		38 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)			26, 29	COLORFAST 25
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	26	BARE, COLORFAST 25	26, 29	BARE
ALUMINIZED STEEL (ga.)				
ALUMINUM (in.)				
COPPER (oz.)				
TERNE METAL (ga.)				
ZINC (ga.)				
4. SYSTEMS RECOMMENDATIONS	3:12		3:12	
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)				
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)				
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	1968			
B. NUMBER OF SQUARES INSTALLED				
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	12		12	
E. LICENSED APPLICATOR AGREEMENT (yes/no)				
FOR SALES INFORMATION, CONTACT:	D. CUNNINGHAM		D. CUNNINGHAM	
FOR TECHNICAL INFORMATION, CONTACT:	J. GIANACAKES		J. GIANACAKES	
8. ASTM E331 WATER INFILTRATION TEST RESULTS	NONE		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	NONE		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	NONE		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	NONE		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

METAL.

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Metal Roof Components

1. COMPANY NAME	MET-TILE INC.		PERFECTION: THE VERY BEST IN BUILDING PRODUCTS	
2. PRODUCT NAME	MET-TILE		COUNTRY MANOR SHAKE	
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)	MISSION-TILE			
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE				
A. PANEL [width (in.), maximum length (ft.)]	36 X 20		12 X 48	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	26	AQUALURE 2000		
STAINLESS STEEL (ga.)				
GALVALUME (ga.)	26	AQUALURE 2000		
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.)	2:12		3:12	
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	1 1/2:12		3:12	
C. DECK TYPES				
SOLID DECK, WOOD	X		X	
SPACED SHEATHING, WOOD	X			
DECKING NOT REQUIRED	X			
D. UNDERLAYMENT RECOMMENDED (type or NA)	30-LB FELT		30-LB FELT	
5. PANEL CONFIGURATION (For components in item 3.2A above; for individual components, see item 6.)				
5.1 INTERLOCKING METHOD, HEIGHT, AND SEALANT	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E=FIELD APPLIED; N=NONE
A. OVERLAPPED				
B. INTERLOCKED				
C. SLIP LOCKED				
D. SNAP TOGETHER				
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)				
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)	125		45	
B. EXPOSURE (inches)			12 X 48	
C. COVERAGE (approx. no. of pieces per square at listed exposure)			25	
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)	EXPOSED		CONCEALED	
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)	20			
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	1984		1996	
B. NUMBER OF SQUARES INSTALLED	> 100,000		> 10,000	
C. METHOD OF DISTRIBUTION (distributors, direct)	DISTRIBUTORS		DISTRIBUTORS	
D. NUMBER OF REGIONAL SERVICE LOCATIONS	20			
E. LICENSED APPLICATOR AGREEMENT (yes/no)	YES		YES	
FOR SALES INFORMATION, CONTACT:	T. HOLMAN 800/899-0311		E. VORESS 888/788-2427	
FOR TECHNICAL INFORMATION, CONTACT:	T. HOLMAN 800/899-0311		D. MILLER 888/788-2427	
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)	CLASSES A, B, C		CLASSES A, B, C	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Roof Components

PETERSEN ALUMINUM CORP. INTEGRAL BATTEN		PETERSEN ALUMINUM CORP. REDI-ROOF STANDING SEAM		PETERSEN ALUMINUM CORP. REDI-ROOF BATTEN	
STANDING SEAM: INTEGRAL BATTEN SEAM		STANDING SEAM		STANDING SEAM SNAP-ON BATTEN	
11-18 X 40		12-18 X 40		12-18 X 45	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
24	KYNAR 500	24	KYNAR 500	24	KYNAR 500
0.032	KYNAR 500	0.032	KYNAR 500	0.032	KYNAR 500
3:12 3:12		3:12 3:12		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 1/2	N	1 1/2	N	1 1/2	N
CONCEALED		CONCEALED		CONCEALED	
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		1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO 800/323-1960 800/323-1960	
NO LEAKAGE @12 PSF		NO LEAKAGE @12 PSF		NO LEAKAGE @12 PSF	
0.008 CFM/SQ FT @1.57PSF		0.004 CFM/SQ FT @1.57PSF		0.004 CFM/SQ FT @1.57PSF	
CLASS A		CLASS A		CLASS A	
UL-90		UL-90		UL-90	

Metal Roof Components

1. COMPANY NAME	PETERSEN ALUMINUM CORP.		PETERSEN ALUMINUM CORP.	
3. CONFIGURATION	SNAP-ON STANDING SEAM		FLUSH PANEL	
3.1 STYLE				
A. SIMULATED SHINGLE (specific type if applicable)				
B. SIMULATED SHAKE (specific type if applicable)				
C. SIMULATED SLATE (specific type if applicable)				
D. SIMULATED TILE (specific type if applicable)				
E. OTHER (specific type)				
3.2 COMPONENT TYPE AND SIZE	STANDING SEAM		STANDING SEAM	
A. PANEL [width (in.), maximum length (ft.)]	12-18 X 40		7-18 X 40	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500	22, 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			
B. MIN. SLOPE RECOMMENDED IN SPECIAL APPLICATION (in. per ft.)	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	1	N	1	N
5.2 FASTENING METHOD				
A. THROUGH-FASTENED (exposed or concealed, specify)	CONCEALED		CONCEALED	
B. CLIP (exposed or concealed, specify)				
6. INDIVIDUAL COMPONENT CONFIGURATION (For components in item 3.2B above; for panels, see item 5.)				
6.1 DIMENSIONS				
A. WEIGHT PER ROOF SQUARE (pounds)				
B. EXPOSURE (inches)				
C. COVERAGE (approx. no. of pieces per square at listed exposure)				
6.2 INSTALLATION PROCESSING				
A. 1. THROUGH-FASTENED (exposed or concealed, specify)				
2. KIND(S) OF FASTENER REQUIRED (nails, staples, screws, NA)				
3. NUMBER OF FASTENERS PER PIECE (number or NA)				
B. SEAM SNAP-IN OR INTERLOCK (specify or NA)				
C. ADHESIVE/SEALANT REQUIRED (yes/no)				
D. SUPPORT BATTENS REQUIRED (yes/no)				
7. MANUFACTURER/PRODUCT DATA				
A. YEAR PRODUCT FIRST SOLD	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		NONE	
9. ASTM E283 AIR INFILTRATION TEST RESULTS	0.006 CFM/SQ FT @1.57PSF		NONE	
10. UL FIRE RATINGS FOR ANY SPECIFICATION (per UL 790)	CLASS A		NONE	
11. FM/UL WIND UPLIFT RATING FOR ANY SPECIFICATION	UL-90		NONE	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Roof Components

PETERSEN ALUMINUM CORP. REVEAL PANEL		PETERSEN ALUMINUM CORP. SNAP-ON BATTEN		PETERSEN ALUMINUM CORP. INTEGRAL STANDING SEAM	
STANDING SEAM		STANDING SEAM: SNAP-ON BATTEN		STANDING SEAM	
7-18 X 40		12-18 X 40		11-18 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24	KYNAR 500	24	KYNAR 500	24	KYNAR 500
0.032	KYNAR 500	0.032	KYNAR 500	0.032	KYNAR 500
		3:12 3:12		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 1/2	N	1 1/2	N
CONCEALED		CONCEALED		CONCEALED	
1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO		1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO		1978 > 100,000 DISTRIBUTORS, DIRECT 4 NO	
800/323-1960 800/323-1960		800/323-1960 800/323-1960		800/323-1960 800/323-1960	
NONE		NONE		NO LEAKAGE @12 PSF	
NONE		NONE		0.02 CFM/SQ FT @1.57PSF	
NONE		CLASS A		CLASS A	
NONE		NONE		UL-90	

Metal Roof Components

1. COMPANY NAME	PETERSEN ALUMINUM CORP.		PETERSEN ALUMINUM CORP.	
2. PRODUCT NAME	HIGH SNAP-ON STANDING SEAM		SNAP-CLAD	
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		10-18 X 45	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	24	KYNAR 500	22, 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		2:12	
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		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	1978		1993	
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	0.005 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

SPRINGHOUSE INC. SPRINGHOUSE SHINGLES		SPRINGHOUSE INC. SPRINGHOUSE SHINGLES		ULTRA SEAM, INC. US 150 LS	
X		X		STANDING SEAM	
11 1/2 X 34 1/2		11 1/2 X 34 1/2		12 3/4, 14 3/4, 18 3/4 X NO LIMIT	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
29	KYNAR	29	KYNAR	22, 24, 26, 28	KYNAR
29	DULL	29	DULL	0.015, 0.018	UNFINISHED
				22, 24, 26	KYNAR, UNFINISHED
				22, 24, 26	UNFINISHED
				0.027, 0.032	KYNAR, UNFINISHED
12, 16	NATURAL, LEAD COATED, PRE-PATINA	12, 16	NATURAL, LEAD COATED, PRE-PATINA	16, 20	UNFINISHED
0.020, 0.027	PRE-PATINA, GRAY, BLACK	0.020, 0.027	PRE-PATINA, GRAY, BLACK	26, 28, 20	
				0.020, 0.027	UNFINISHED
4:12		4:12		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 1/2	E
				CONCEALED	
80 STEEL		80 STEEL			
10		10			
		42			
CONCEALED NAILS, SCREWS		CONCEALED NAILS, SCREWS			
5		5			
1996		1996		1991	
DISTRIBUTORS, DIRECT		DISTRIBUTORS, DIRECT		DISTRIBUTORS	
NO		NO		10	
519/235-1566		519/235-1566		YES	
J. NICHOLSON 519/235-1566		J. NICHOLSON 519/235-1566		L. PRIDE 800/874-7326	
				R. STEYER 248/960-0540	

METAL

Metal Roof Components

1. COMPANY NAME	ULTRA SEAM, INC.		ULTRA SEAM, INC.	
2. PRODUCT NAME	US 175 LS		US 150 A	
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				
A. PANEL (width (in.), maximum length (ft.))	12 3/4, 14 3/4, 18 3/4 X NO LIMIT		12, 16, 20, 24 X NO LIMIT	
B. INDIVIDUAL (dimensions: inches x inches)				
3.3 MATERIALS, THICKNESSES, AND FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
GALVANIZED STEEL (ga.)	22, 24, 26, 28	KYNAR	22, 24, 26, 28	KYNAR
STAINLESS STEEL (ga.)	0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED
GALVALUME (ga.)	22, 24, 26	KYNAR, UNFINISHED	22, 24, 26	KYNAR, UNFINISHED
ALUMINIZED STEEL (ga.)	22, 24, 26	UNFINISHED	22, 24, 26	UNFINISHED
ALUMINUM (in.)	0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED
COPPER (oz.)	16, 20	UNFINISHED	16, 20	UNFINISHED
TERNE METAL (ga.)	26, 28, 20		26, 28, 20	
ZINC (ga.)	0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED
4. SYSTEMS RECOMMENDATIONS				
A. MIN. SLOPE RECOMMENDED IN NORMAL APPLICATION (in. per ft.)	3:12		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		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	248/960-0540	R. STEYER	248/960-0540
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		UL-90	
12. SEE APPENDIX IF CHECKED				

NA=not applicable

Metal Roof Components

ULTRA SEAM, INC. US 150 WB		ULTRA SEAM, INC. US 100 SS		VINCENT METALS COLORKLAD SYSTEM I	
STANDING SEAM: BATTEN SEAM		STANDING SEAM		STANDING SEAM	
15 3/4, 19 3/4, 23 3/4 X NO LIMIT		14 1/2, 18 1/2 X NO LIMIT		12, 16, 18, 22 X 40	
THICKNESSES	FINISHES	THICKNESSES	FINISHES	THICKNESSES	FINISHES
22, 24, 26, 28	KYNAR	24, 26, 28	KYNAR	24	KYNAR 500
0.015, 0.018	UNFINISHED	0.015, 0.018	UNFINISHED	24, 26	MILL
22, 24, 26	KYNAR, UNFINISHED	24, 26	KYNAR, UNFINISHED		
22, 24, 26	UNFINISHED	24, 26	UNFINISHED		
0.027, 0.032	KYNAR, UNFINISHED	0.027, 0.032	KYNAR, UNFINISHED	0.032	KYNAR 500
16, 20	UNFINISHED	16, 20	KYNAR, UNFINISHED	16, 20	MILL
26, 28, 20		26, 28, 20		24, 26, 28, 30	MILL
0.020, 0.027	UNFINISHED	0.020, 0.027	UNFINISHED		
2:12		4:12 6:12		3:12	
X		X		X	
X		X			
30-LB FELT		30-LB FELT		30-LB FELT	
HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE	HEIGHT (inches)	SEAM SEALANT F=FACTORY APPLIED; E= FIELD APPLIED; N=NONE
1 1/2	E	1	E	1 1/2	E
CONCEALED		CONCEALED		CONCEALED	
1982		1982		1969	
DISTRIBUTORS		DISTRIBUTORS		DISTRIBUTORS, DIRECT	
10		10		NO	
YES		YES		NONE	
L. PRIDE 800/874-7326		L. PRIDE 800/874-7326		NONE	
R. STEYER 248/960-0540		R. STEYER 248/960-0540		NONE	
				NONE	
				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. WAFFERBOARD	X	X	X
4. OTHER (specify)			
10. YEAR PRODUCT FIRST SOLD	1985	1985	1969
11. NUMBER OF SQUARES INSTALLED	160,000	275,000	800,000
12. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	400 ±	400 ±	400 ±
B. DIRECT (number of regional service locations or no)	NO	NO	NO
13. FIRE RATINGS			
A. FIRE RATING(S) AVAILABLE (per UL Standard 790)			
B. FIRE RATING(S) AVAILABLE (per ASTM E108)			
14. ACCEPTED BY THE FOLLOWING CODES	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI	ICBO, BOCA, SBCCI
15A. FOR SALES INFORMATION, CONTACT:	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707	M. RUTLEDGE 800/663-8707
15B. FOR TECHNICAL INFORMATION, CONTACT:	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388	M. RUTLEDGE 800/963-3388
16. SEE APPENDIX IF CHECKED			

NA=not applicable

Wood Shakes and Shingles

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

Wood Shakes and Shingles

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

NA=not applicable

Wood Shakes and Shingles

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

Wood Shakes and Shingles

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

NA=not applicable

Wood Shakes and Shingles

TAMARK MANUFACTURING, LLC	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS	WALDUN FOREST PRODUCTS
LIFEPINE SHAKE	WALDUN	WALDUN	WALDUN	WALDUN	WALDUN
TREATED PINE	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
10	10	10	7 1/2	10	5 1/2
14	14	14	10 1/2	14	12 1/2
390					
NAILS	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES	NAILS OR STAPLES
YES	YES	YES	YES	YES	YES
4:12 NO.-30 FELT	4:12 TYPE-30 FELT	4:12 TYPE-30 FELT	4:12 TYPE-30 FELT	4:12 TYPE-30 FELT	4:12 NONE
NONE	NONE	NONE	NONE	NONE	NONE
2:12 NO.-30 FELT					3:12 NONE
HOT MOP					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
1-IN. X 6-IN. LUMBER					
1984	1968	1968	1968	1968	1968
150,000	800,000 ±	800,000 ±	800,000 ±	800,000 ±	800,000 ±
48	100	100	100	100	100
73	NO	NO	NO	NO	NO
CLASS B					
ICBO, BOCA, SBCCI,	ICBO	ICBO	ICBO	ICBO	ICBO
K. RULE 800/735-7663 912/232-0786	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN	C. NORTHRUP 800/4WALDUN
K. RULE 800/735-7663	T. FARIS 206/337-7745	T. FARIS 206/337-7745	T. FARIS 206/337-7745	T. FARIS 206/337-7745	T. FARIS 206/337-7745
X					

Wood Shakes and Shingles

1. COMPANY NAME	WALDUN FOREST PRODUCTS
2. PRODUCT NAME	WALDUN
3. WOOD SPECIES	WESTERN RED CEDAR
4. PRODUCT STYLE AND SIZE	
A. CEDAR	
1. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 1/2 IN.)	
2. SHAKE, SPLIT AND RESAWN, 24-INCH (24 IN. X 3/4 IN.)	
3. SHAKE, TAPER-SAWN, 18-INCH	
4. SHAKE, TAPER-SAWN, 24-INCH	
5. SHINGLE, PERFECTION 18-INCH	
6. SHINGLE, ROYAL 24-INCH	X
B. PINE	
1. SHAKE, TAPER-SAWN, 18-INCH X 13/16-INCH	
2. SHAKE, TAPER-SAWN, 24-INCH X 13/16-INCH	
3. SHINGLE, ROYAL 24-INCH	
C. WOOD FIBER	
1. PANEL, 12 IN. X 48 IN. X 7/16 IN.	
2. PANEL, 12 IN. X 40 IN. X 1/2 IN.	
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO
6. DIMENSIONS AND COVERAGE	
A. MAXIMUM EXPOSURE (inches)	7 1/2
B. HEADLAP (inches)	16 1/2
C. WEIGHT PER ROOF SQUARE (at ambient temperature, pounds)	
D. FASTENERS REQUIRED (nails, staples, or specify)	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
B. INTERLAYMENT RECOMMENDED IN NORMAL APPLICATION	NONE
C. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	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
2. SPACED SHEATHING	X
B. MATERIAL	
1. PLYWOOD/WOOD	X
2. ORIENTED-STRAND BOARD	X
3. WAFFERBOARD	
4. OTHER (specify)	
10. YEAR PRODUCT FIRST SOLD	1968
11. NUMBER OF SQUARES INSTALLED	800,000 ±
12. DISTRIBUTION	
A. DISTRIBUTORS (number handling product or no)	100
B. DIRECT (number of regional service locations or 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
15A. FOR SALES INFORMATION, CONTACT:	C. NORTHRUP
15B. FOR TECHNICAL INFORMATION, CONTACT:	800/4WALDUN
	T. FARIS
	206/337-7745
16. SEE APPENDIX IF CHECKED	

NA=not applicable

SLATE

AND

SYNTHETIC ROOF

COMPONENTS

Slate

1. COMPANY NAME	BUCKINGHAM-VIRGINIA SLATE CORPORATION		EVERGREEN SLATE COMPANY, INC.	
2. PRODUCT DESCRIPTION	BUCKINGHAM UNFADING		VERMONT ROOFING SLATE	
3. TEXTURES	THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	THICKNESSES (inches)	WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)
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	2,200
	1/2-3/4	2,300	3/4-1	3,400
	3/4-1	3,200		
C. GRADUATED-TEXTURAL	3/16, 1/4, 3/8, 1/2, 3/4, 1	NA	3/16, 1/4, 3/8, 1/2, 3/4, 1	AVG. 1,800
4. SIZES	LENGTHS (inches)	STANDARD WIDTHS (inches)	LENGTHS (inches)	STANDARD WIDTHS (inches)
	24	16, 14, 13, 12, 11	24	14, 12
	22	14, 13, 12, 11, 10	22	14, 12, 11
	20	14, 13, 12, 11, 10, 9	20	14, 12, 11, 10
	18	14, 13, 12, 11, 10, 9	18	14, 12, 11, 10, 9
	16	14, 12, 11, 10, 9, 8	16	14, 12, 11, 10, 9, 8
	14	12, 11, 10, 9, 8, 7	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.)	UNFADING		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	
A. BLACK				
B. BLUE-BLACK				
C. GRAY				
D. BLUE-GRAY				
E. GRAY-BLACK				
F. MOTTLED GRAY-BLACK				
G. GRAY-GREEN				
H. GREEN				
I. MOTTLED GRAY-GREEN				
J. PURPLE				
K. MOTTLED PURPLE/GREEN				
L. GREEN				
M. PURPLE VARIEGATED				
N. RED				
6. SLOPE/UNDERLAYMENT RECOMMENDATIONS				
A. MINIMUM SLOPE RECOMMENDED IN NORMAL APPLICATION (inches per foot)	4:12		8:12	
B. UNDERLAYMENT RECOMMENDED IN NORMAL APPLICATION	30-LB FELT		30-LB FELT	
C. MINIMUM SLOPE RECOMMENDED FOR SPECIAL APPLICATION (inches per foot)			4:12	
D. UNDERLAYMENT RECOMMENDED IN SPECIAL APPLICATION				
7. RECOMMENDED DECKS				
A. TYPES				
1. SOLID SHEATHING	X		X	
2. SPACED SHEATHING	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, STAINLESS STEEL	
9. YEAR PRODUCT FIRST SOLD	1876		1916	
10. NUMBER OF SQUARES INSTALLED	300,000		10 MILLION	
11. DISTRIBUTION				
A. DISTRIBUTORS (number handling product or no)	55			
B. DIRECT (number of regional service locations or no)	1		10	
12. TECHNICAL INFORMATION				
COMPLIES WITH ASTM STANDARD C 406-89 (1996) STANDARD SPECIFICATION FOR ROOFING SLATE (grade: check one)				
GRADE S ₁ Over 75 years service life	X		X	
GRADE S ₂ 40 to 75 years service life				
GRADE S ₃ 20 to 40 years service life				
13A. FOR SALES INFORMATION, CONTACT:	804/581-1131		R.C. HICKS, J. BAKER 518/642-2530	
13B. FOR TECHNICAL INFORMATION, CONTACT:	804/581-1131		R.C. HICKS, J. BAKER 518/642-2530	
14. SEE APPENDIX IF CHECKED			X	

NA=not applicable

Slate

HILLTOP SLATE INC.			NEWFOUNDLAND SLATE INC.			PENN BIG BED SLATE COMPANY, INC.		
VERMONT AND NEW YORK NATURAL SLATE			NATURAL ROOFING SLATE			PENNSYLVANIA SLATE		
THICKNESSES (inches)		WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	THICKNESSES (inches)		WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)	THICKNESSES (inches)		WEIGHTS PER ROOF SQUARE (pounds) (Standard 3-in. Headlap)
3/16-1/4		700-800	3/16-1/4		650-800	3/16		750
3/16-1/4-3/8		825-1,000	1/4-3/8		800-1,200	3/16-1/4		800
FULL 1/4		900	3/8-1/2		1,200-1,800			
FULL 3/8		1,100						
FULL 1/2		1,700						
FULL 3/4		2,300						
FULL 1		3,400						
3/16, 1/4, 3/8, 1/2, 3/4, 1		NA						
LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)	LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)	LENGTHS (inches)	STANDARD WIDTHS (inches)	EXPOSURE (inches) (Standard 3-in. Headlap)
24	16, 14, 12	10 1/2	24	14, 12	10 1/2	24	14, 12	10 1/2
22	16, 12, 11	9 1/2	22	14, 12, 11	9 1/2	22	12, 11	9 1/2
20	14, 12, 11, 10	8 1/2	20	14, 12, 10	8 1/2	20	12, 11, 10	8 1/2
18	14, 12, 11, 10, 9	7 1/2	18	12, 10, 9	7 1/2	18	12, 11, 10, 9	7 1/2
16	14, 12, 11, 10, 9, 8	6 1/2	16	12, 10, 8	6 1/2	16	12, 11, 10, 9, 8	6 1/2
14	14, 12, 11, 10, 9, 8, 7	5 1/2	14	12, 10, 8	5 1/2	14	12, 11, 10, 9	5 1/2
12	12, 10, 9, 8, 7, 6	4 1/2	12	10, 8	4 1/2	12	10, 9, 8, 7, 6	4 1/2
10	10, 9, 8, 7, 6	3 1/2						
SEMI-WEATHERING			UNFADING					
UNFADING			UNFADING					
SEMI-WEATHERING			SEMI-WEATHERING, UNFADING					
UNFADING			X			X		
SEMI-WEATHERING			X					
SEMI-WEATHERING			X					
UNFADING			UNFADING					
UNFADING			UNFADING					
UNFADING			UNFADING					
UNFADING			UNFADING					
SEMI-WEATHERING			UNFADING					
UNFADING			UNFADING					
UNFADING			UNFADING					
4:12			8:12					
30-LB FELT			30-LB FELT					
			4:12					
			ICE/WATER SHIELD					
			X					
			X			X		
			X			X		
			2" X 3" WOODEN BATTENS					
			COPPER, LEAD			COPPER, GALVANIZED		
1948			1988			1934		
275000			64,000			140,000 +		
3			10					
1			1			1		
X			X			X		
						X		
H. WOOD 518/642-2270			DAVE LARGE 800/975-2835			P. PAPAY 610/767-4601		
H. WOOD 518/642-2270			DAVE LARGE 800/975-2835			P. PAPAY 610/767-4601		
						X		

SLATE/SYNTHETIC

Slate

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

NA=not applicable

Synthetic Roof Components

1. COMPANY NAME	AIR VENT INC.	AIR VENT INC.
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)	SHINGLE OVER	RIDGE VENT
F. NUMBER OF COLORS AVAILABLE	4	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. WAFFERBOARD	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 (90-56), 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

NA=not applicable

Underlayment Sheets

AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY
A130 TYPE 30 ASTM SHAKELINER	230 NO. 30 FELT	A230 TYPE 30 ASTM FELT	310 NO. 15 FELT	315 NO. 15 FELT	A315 TYPE 15 ASTM FELT
X	X	X	X	X	X
NO. 30, D 226 SHAKE FELT	NO. 30	TYPE II (D 226)	NO. 15	NO. 15	TYPE I (D 226)
18	36	36	36	36	36
180	216	216	324	324	324
48	38	60	30	33	41
NO	NO	NO	NO	NO	NO
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1988	1958	1988	1988	1958	1988
1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +	1 MILLION +
1,000 +	1,000 +	1,000 +	1,000 +	1,000 +	1,000 +
26	26				
YES	NO	YES	NO	NO	YES
NA	NA	NA	NA	NA	NA
X		X			X
NA	NA	NA	NA	NA	NA
NA					
NA					
NA					
BOCA, ICBO, SBCCI		BOCA, ICBO, SBCCI			BOCA, ICBO, SBCCI
M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098

Underlayment Sheets

1. COMPANY NAME	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY	AMERICAN TAR COMPANY
2. PRODUCT NAME OR DESCRIPTION	410 NO. 15 FELT	415 STANDARD NO. 15 FELT	A415 TYPE 15 ASTM FELT
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)	NO. 15	NO. 15	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	432	432
5. WEIGHT PER ROLL (pounds)	40	46	54
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	1988	1958	1988
8. NUMBER OF SQUARES INSTALLED	1 MILLION +	1 MILLION +	1 MILLION +
9. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)	1,000 +	1,000 +	1,000 +
B. DIRECT (number of regional service locations or no)			
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)	NA	NA	NA
Type I—Minimum net mass per unit area of roofing, 39.8lb/100 ft ²			
Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ²			
Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft ²			
Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ²			
B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA)			X
Type I—Commonly called No. 15 asphalt felt			
Type II—Commonly called No. 30 asphalt felt			
C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA)	NA	NA	NA
D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA)			
Type I—Shingle Underlayment			
Type II—Heavy Duty Shingle Underlayment			
E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA)	NA	NA	NA
F. OTHER ASTM SPECIFICATION (specify)			
12. ACCEPTED BY THE FOLLOWING CODES			BOCA, ICBO, SBCCI
13A. FOR SALES INFORMATION, CONTACT:	M. FIELDS 800/627-4098	M. FIELDS 800/627-4098	M. FIELDS 800/627-4098
13B. FOR TECHNICAL INFORMATION, CONTACT:	T. VANDERLINDA 800/627-4098	T. VANDERLINDA 800/627-4098	T. VANDERLINDA 800/627-4098
14. SEE APPENDIX IF CHECKED			

NA=not applicable

Underlayment Sheets

ANDEK CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
FLASHBAND	NO. 15 STANDARD SATURATED FELT	NO. 30 STANDARD SATURATED FELT	NO. 15 SPECIFICATION FELT	NO.30 SPECIFICATION FELT	STORMMASTER DG ICE & WATER PROTECTION
	X	X	X	X	
X					X
	NO. 15	NO. 30	NO. 15	NO. 30	
	36	36	36	36	
	432	216	432	216	
MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERED 28 77 33 NO	YES	YES	YES	YES	MODIFIED BITUMEN 1 SBS SELF-ADHERED 36 432 YES
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
1973					
3.5 MILLION					
127					
14					
	NO	NO	YES	YES	YES
NA	NA	NA	NA	NA	NA
NA	NA	NA	X	X	NA
NA	NA	NA	NA	NA	NA
NA	X	X	NA	NA	NA
	NA	NA	NA	NA	YES
ICBO	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI
H. LISS N. SHEARER	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479
	X	X	X	X	X

Underlayment Sheets

1. COMPANY NAME	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION	ATLAS ROOFING CORPORATION
2. PRODUCT NAME OR DESCRIPTION	NO. 43 BASE SHEET	SLATE/TILE UNDERLAYMENT	PREMIUM FLAT FELT (PFF)
3. PRODUCT CATEGORY			
A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED			
B. ORGANIC ASPHALT-SATURATED FELT, COATED	X	X	
C. ASPHALT FIBERGLASS FELT			X
D. SPECIAL "ICE SHIELD" UNDERLAYMENT			
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C)			
1. TYPE (ASTM standard [specify] or generic)	NO. 43		COMPOSITE
2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt)			
3. SHEET WIDTH (inches)	36		36
4. SIZE PER ROLL (sq. ft.)	234		432
5. WEIGHT PER ROLL (pounds)			
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT)			
1. KIND OF SHEET(S) (e.g., felts, modified bitumen)			
2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT			
3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt)			
4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered)			
5. SHEET WIDTH (inches)			
6. SIZE PER ROLL (sq. ft.)			
7. WEIGHT PER ROLL (pounds)			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	YES	NO
6. RECOMMENDED FOR APPLICATION WITH:			
A. ASPHALT SHINGLES			X
B. FIBER-CEMENT ROOF COMPONENTS	X		
C. CLAY TILE	X	X	
D. CONCRETE TILE	X	X	
E. METAL ROOF COMPONENTS			
F. SLATE		X	
G. WOOD SHAKES/SHINGLES	X		
H. OTHER (specify)			
7. YEAR PRODUCT FIRST SOLD			1997
8. NUMBER OF SQUARES INSTALLED			
9. DISTRIBUTION			
A. DISTRIBUTORS (number handling product or no)			
B. DIRECT (number of regional service locations or no)			
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	NO		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 ²			
Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ²			
Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft ²			
Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ²			
B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA)	NA	NA	NA
Type I—Commonly called No. 15 asphalt felt			
Type II—Commonly called No. 30 asphalt felt			
C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA)	YES	NA	NA
D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED 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 1970-95 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	BOCA, ICBO, SBCCI	BOCA, ICBO, SBCCI	
13A. FOR SALES INFORMATION, CONTACT:	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479	ATLAS REGIONAL SALES OFFICES (SEE APPENDIX) 770/933-4479
13B. FOR TECHNICAL INFORMATION, CONTACT:			
14. SEE APPENDIX IF CHECKED	X	X	X

NA=not applicable

Underlayment Sheets

BPCO	BPCO	BPCO	BPCO	BPCO	BPCO
PROGARD WATERPROOFING MEMBRANE	SMOOTH SURFACE	ESGARD NO. 15 PLAIN	ESGARD TYPE 15	ESGARD TYPE 15 ALL PURPOSE	ESGARD SHINGLE BASE UNDERLAYMENT
		X	X	X	X
X	X				
	TYPE I (D 224)	TYPE I (D 226)	TYPE 15	TYPE 15	TYPE 15
	36	36	36	36	36
	107	432	432	432	432
	60.52	52	44.11	38.4	27.11
MODIFIED BITUMEN 1					
MODIFIED ASPHALT SELF-ADHERING					
36					
195					
65					
YES	YES	YES	YES	YES	
X	X	X	X	X	X
1991	1926	1924	1986	1986	1991
NA	X	NA	NA	NA	NA
NA	NA	X			
NA	NA	NA	NA	NA	NA
NA					
YES	NA	NA	NA	NA	NA
BP SALES P. BACCHIONI 201/595-6695	BP SALES P. BACCHIONI 201/595-6695	CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801	CAN-AM SALES S. PREVOST 802/658-7801

Underlayment Sheets

[illegible]

NA=not applicable

Underlayment Sheets

CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION	CELOTEX CORPORATION
#30 ASPHALT PLAIN FELT	ASTM TOUGH AND HEAVY TILE UNDERLAYMENT	ASTM/UL #30 PLAIN FELT	ASTM/UL #15 PLAIN FELT	VABORBAR ORGANIC BASE SHEET	CELOGUARD SHINGLE UNDERLAYMENT
X	X	X	X	X	X
TYPE II (D 4869)	TYPE II (D 249)	TYPE II (D 226)	TYPE I (D 226)	TYPE I (D 224)	
36	36	36	36	36	
216	108	216	432	216/162	
43.2	77.5	56	53.1	80/60	
					MODIFIED BITUMEN
					MODIFIED ASPHALT SELF-ADHERING
					36
					100/200
					45/90
NO	YES	YES	YES	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
YES	YES	YES	YES	NO	YES
NA		NA	NA		NA
				X	
	NA			NA	NA
		X	X		
NA		NA	NA	YES	NA
	NA			NA	NA
X					
NA	NA	NA	NA	NA	YES
	D 249-89				
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

Underlayment Sheets

1. COMPANY NAME	CELOTEX CORPORATION	CERTAINTED CORPORATION	CERTAINTED CORPORATION
2. PRODUCT NAME OR DESCRIPTION	TILE UNDERLAYMENT	WINTERGUARD WATER-PROOFING SHINGLE UNDERLAYMENT	WINTERGUARD W.S.U. SHORT ROLL
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)	36 168 73		
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 ASPHALT 1 MODIFIED ASPHALT SELF-ADHERED 36 195 69	MODIFIED ASPHALT 1 MODIFIED ASPHALT SELF-ADHERED 36 97.5 36
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	YES	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X X X X X X	X X X X X X	X X X X X X
7. YEAR PRODUCT FIRST SOLD		1987	1991
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 ² Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ² Type III—Minimum net mass per unit area of roofing, 51.1lb/100 ft ² Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ² B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA NA NA NA NA	NA NA NA NA NA YES	NA NA NA NA NA YES
12. ACCEPTED BY THE FOLLOWING CODES		WISCONSIN DILHR	WISCONSIN DILHR
13A. FOR SALES INFORMATION, CONTACT:	800/CELOTEX REGIONAL OFFICE OR 800/662-4609	LOCAL OFFICE	LOCAL OFFICE
13B. FOR TECHNICAL INFORMATION, CONTACT:		800/322-3060	800/322-3060
14. SEE APPENDIX IF CHECKED		X	X

NA=not applicable

Underlayment Sheets

FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION
F10 SHAKELINER	F12 SHAKELINER	F15 ASTM SHAKELINER	F20 2-SQUARE NO. 30 FELT	F22 2-SQUARE NO. 30 FELT	F25 2-SQUARE TYPE 30 ASTM FELT
X	X	X	X	X	X
NO. 30 SHAKE FELT	NO. 30 SHAKE FELT	TYPE II (D226) SHAKE FELT	NO. 30	NO. 30	TYPE II (D 226)
18	18	18	36	36	36
180	180	180	216	216	216
27	32	48	32	38	60
NO	NO	NO	NO	NO	NO
X	X	X	X	X	X
1 MILLION +	1 MILLION +	1 MILLION +	1988	1988	1988
1,000 +	1,000 +	1,000 +	1 MILLION +	1 MILLION +	1 MILLION +
NO	NO	YES	NO	NO	YES
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	NA	NA	NA
NA	NA	NA	NA	NA	NA
NA	NA	BOCA, ICBO, SBCCI	NA	NA	BOCA, ICBO, SBCCI
M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098

Underlayment Sheets

[illegible]

NA=not applicable

Underlayment Sheets

FIELDS CORPORATION	FIELDS CORPORATION	FIELDS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION	GAF MATERIALS CORPORATION
F40 4-SQUARE NO. 15 FELT	F42 4-SQUARE NO. 15 FELT	F45 4-SQUARE TYPE 15 ASTM FELT	SHINGLE-MATE	WEATHER WATCH	STORMGUARD WATER-PROOF UNDERLAYMENT
X	X	X	X	X	X
NO. 15	NO. 15	TYPE 1 (D 226)	COMPOSITE	MODIFIED BITUMEN	MODIFIED BITUMEN
36	36	36	36	1	1
432	432	432	400	MODIFIED ASPHALT SELF-ADHERING	MODIFIED ASPHALT SELF-ADHERING
40	46	54	30	36	36
				150	200
				70	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			
1988	1988	1988	1984	1987	1997
1 MILLION +	1 MILLION +	1 MILLION +			
1,000 +	1,000 +	1,000 +			
NO	NO	YES	NO	YES	YES
NA	NA	NA	NA	NA	NA
		X	NA	NA	NA
NA	NA	NA	NA	NA	NA
			NA	NA	NA
NA	NA	NA	NA	NO	NO
		BOCA, ICBO, SBCCI			
M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	M. FIELDS 800/627-4098 T. VANDERLINDA 800/627-4098	GAF REGIONAL SALES OFFICE 800/ROOF-411	GAF REGIONAL SALES OFFICE 800/ROOF-411	GAF REGIONAL SALES OFFICE 800/ROOF-411
			X	X	X

Underlayment Sheets

1. COMPANY NAME	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.
2. PRODUCT NAME OR DESCRIPTION	SHINGLE UNDERLAYMENT	#15 PLAIN FELT	#15 PLAIN FELT
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)	NO. 15	NO. 15	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.)	400	432	432
5. WEIGHT PER ROLL (pounds)			
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT)			
1. KIND OF SHEET(S) (e.g., felts, modified bitumen)			
2. NUMBER OF PLY(IES)/SHEETS COMPRISING UNDERLAYMENT			
3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt)			
4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered)			
5. SHEET WIDTH (inches)			
6. SIZE PER ROLL (sq. ft.)			
7. WEIGHT PER ROLL (pounds)			
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			
C. CLAY TILE			
D. CONCRETE TILE			
E. METAL ROOF COMPONENTS			
F. SLATE			
G. WOOD SHAKES/SHINGLES	X		
H. OTHER (specify)			
7. YEAR PRODUCT FIRST SOLD	1987	1955	
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	
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 ²	NA	NA	NA
Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ²			
Type III—Minimum net mass per unit area of roofing, 51.1 lb/100 ft ²			
Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ²			
B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA)			
Type I—Commonly called No. 15 asphalt felt			X
Type II—Commonly called No. 30 asphalt felt			
C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA)	NA	NA	NA
D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA)			
Type I—Shingle Underlayment			
Type II—Heavy Duty Shingle Underlayment			
E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA)	NA	NA	NA
F. OTHER ASTM SPECIFICATION (specify)			
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

GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GLOBE BUILDING MATERIALS, INC.	GS ROOFING ROOFING PRODUCTS, CO.	GS ROOFING ROOFING PRODUCTS, CO.
#30 PLAIN	18" SHAKE FELT	EAVE & VALLEY SHIELD	EAVE & VALLEY SHIELD	STORMSHIELD/BLACK DIAMOND BASE SHEET	#15 PLAIN FELT-UL
X	X				X
		X	X	X	
NO. 30	NO. 30				TYPE I (D 266)
36	18				36
216	108				432
					54
		MODIFIED BITUMEN	MODIFIED BITUMEN	MODIFIED BITUMEN	
		1	1	1	
		MODIFIED ASPHALT	MODIFIED ASPHALT	MODIFIED ASPHALT	
		SELF-ADHERING	SELF-ADHERING	SELF-ADHERING	
		36	36	36	
		108	225	95/195/225	
				35/68/78	
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
				BUR SYSTEMS	
1955	1987	1990	1990		
				MILLIONS	MILLIONS
				300+	300+
				NO	NO
				YES	YES
NA	NA	NA	NA	NA	NA
		NA	NA	NA	X
NA	NA	NA	NA	NA	YES
		NA	NA	NA	
NA	NA			YES	NA
219/473-4500	219/473-4500	219/473-4500	219/473-4500	ICBO, FM, METRO-DADE COUNTY, FL.	ICBO, METRO-DADE COUNTY, FL.
219/473-4500	219/473-4500	219/473-4500	219/473-4500	972/580-5604	972/580-5604
				972/580-5600	972/580-5600
				X	X

Underlayment Sheets

1. COMPANY NAME	GS ROOFING ROOFING PRODUCTS, CO.	HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY
2. PRODUCT NAME OR DESCRIPTION	#30 PLAIN FELT-UL	#402 SATELLITE TYPE 15	#404 SATELLITE TYPE 30
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard (specify) or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	TYPE II (D 266) 36 216 54	TYPE I (D 226) 36 432 55	TYPE II (D 226) 36 216 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)			
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		1957	1957
8. NUMBER OF SQUARES INSTALLED	MILLIONS		
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	300+ NO	100+	100+
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 ² Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ² Type III—Minimum net mass per unit area of roofing, 51.1 lb/100 ft ² Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ² B. ASTM D 226-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA X YES NA NA NA	NA NA X NA X NA NA	NA NA X NA X NA NA
12. ACCEPTED BY THE FOLLOWING CODES	ICBO, METRO-DADE COUNTY, FL.	ICBO	ICBO
13A. FOR SALES INFORMATION, CONTACT:	972/580-5604	G. MALARKEY 800/545-1191	G. MALARKEY 800/545-1191
13B. FOR TECHNICAL INFORMATION, CONTACT:	972/580-5600	J. DECHANDT, S. WADDING	J. DECHANDT, S. WADDING
14. SEE APPENDIX IF CHECKED	X		

NA=not applicable

Underlayment Sheets

HERBERT MALARKEY ROOFING COMPANY	HERBERT MALARKEY ROOFING COMPANY	MONSEY BAKOR	OWENS CORNING	OWENS CORNING	PABCO ROOFING PRODUCTS
#405 SATELLITE TYPE 30 SHAKELINER	ARCTIC SEAL #170	EAVEGUARD SHINGLE UNDERLAYMENT	WEATHERLOCK POLYETHYLENE SURFACE	WEATHERLOCK GRANULATED SURFACE	ICE & WATER GUARD
X					
	X	X	X	X	X
TYPE II (D 226) SHAKE FELT 18 180 45					
	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 225 70	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 100/195/225 37/78/90	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 100/200	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERING 36 100/200	MODIFIED BITUMEN 1 MODIFIED ASPHALT SELF-ADHERED 36 225 54
YES	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
	WATERPROOFING				
1957	1993	1983	1994	1997	1986
		800,000 +			
100 +	100 +	200 + NO			100 NO
		YES			YES
NA	NA		NA	NA	
	NA	NA	NA	NA	
X					
NA	NA	NA	NA	NA	
	NA	NA	NA	NA	
X					
NA	YES	YES	YES	YES	YES
ICBO	ICBO	D 5147-91			ICBO
G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	G. MALARKEY 800/545-1191 J. DECHANDT, S. WADDING	W. MULLEN 800/523-0268 D. TAYLOR 800/397-9598	800/GET-PINK 800/GET-PINK	800/GET-PINK 800/GET-PINK	H. BOUCHEE 206/272-0374 S. DINWIDDIE 206/272-0374

Underlayment Sheets

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

NA=not applicable

Underlayment Sheets

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

Underlayment Sheets

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

NA=not applicable

Underlayment Sheets

TC MIRADRI	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
MIRADRI WIP 300 HT	SHINGLE FELT	#15 W	#30 W	#15 ASTM	#30 ASTM & GOLDLINE & U/L
	X	X	X	X	X
X					
	TYPE I (D 4869)	TYPE I (D 4869)	NO. 30	TYPE I (D 226)	TYPE II (D 226)
	36	36	36	36	36
	432	432	216	432	216
	36	40	40	50	57
MODIFIED BITUMEN 1					
MODIFIED ASPHALT SELF-ADHERING					
36					
200					
65					
	NO	NO	NO	NO	NO
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X	X	X	X	X	X
X					
HIGH TEMP. APPLICATION					
1996	1984	1988	1988	1978	1978
	3 MILLION	18 MILLION	3.5 MILLION	72 MILLION	18 MILLION
200 +	200 ±	200 ±	200 ±	200 ±	200 ±
NO	NO	NO	NO	NO	NO
YES	YES	YES	YES	YES	YES
NA	NA	NA	NA	NA	NA
NA				X	X
NA	NA	NA	NA	NA	NA
NA	X	X		NA	NA
YES	NA	NA	NA	NA	NA
					METRO.-DADE COUNTY, FL
TC MIRADRI 800/464-7234 W. HARVE 800/464-7234	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358	B. LA RUE 800/749-3358 D. CARDEN 800/749-3358

UNDERLAYMENT

1. COMPANY NAME	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.	WARRIOR ROOFING MANUFACTURING, INC.
2. PRODUCT NAME OR DESCRIPTION	#15 U/L	#15	#30
3. PRODUCT CATEGORY A. ORGANIC ASPHALT-SATURATED FELT, UNPERFORATED B. ORGANIC ASPHALT-SATURATED FELT, COATED C. ASPHALT FIBERGLASS FELT D. SPECIAL "ICE SHIELD" UNDERLAYMENT	X	X	X
4A. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3A, 3B, OR 3C) 1. TYPE (ASTM standard [specify] or generic) 2. AVAILABLE AS SPECIALTY UNDERLAYMENT (type, e.g., shake felt) 3. SHEET WIDTH (inches) 4. SIZE PER ROLL (sq. ft.) 5. WEIGHT PER ROLL (pounds)	TYPE I (D 226) 36 432 57	TYPE I (D 4869) 36 432 44	TYPE II (D 4869) 36 216 44
4B. PRODUCT INFORMATION (FOR PRODUCTS IN CATEGORY 3D SPECIAL "ICE SHIELD" UNDERLAYMENT) 1. KIND OF SHEET(S) (e.g., felts, modified bitumen) 2. NUMBER OF PLY(ES)/SHEETS COMPRISING UNDERLAYMENT 3. WATERPROOFING MEDIUM (e.g., asphalt, modified asphalt) 4. APPLICATION METHOD (e.g., mechanical, mopped, self-adhered) 5. SHEET WIDTH (inches) 6. SIZE PER ROLL (sq. ft.) 7. WEIGHT PER ROLL (pounds)			
5. AVAILABILITY RESTRICTED REGIONALLY (yes/no)	NO	NO	NO
6. RECOMMENDED FOR APPLICATION WITH: A. ASPHALT SHINGLES B. FIBER-CEMENT ROOF COMPONENTS C. CLAY TILE D. CONCRETE TILE E. METAL ROOF COMPONENTS F. SLATE G. WOOD SHAKES/SHINGLES H. OTHER (specify)	X X X X X X X	X X X X X X X	X X X X X X X
7. YEAR PRODUCT FIRST SOLD	1978	1982	1982
8. NUMBER OF SQUARES INSTALLED	72 MILLION	72 MILLION	18 MILLION
9. DISTRIBUTION A. DISTRIBUTORS (number handling product or no) B. DIRECT (number of regional service locations or no)	200 ± NO	200 ± NO	200 ± NO
10. UL-CLASSIFIED PREPARED ROOFING ACCESSORY (yes/no)	YES	YES	YES
11. COMPLIES WITH: A. ASTM D 224-89 STANDARD SPECIFICATION FOR SMOOTH-SURFACED ASPHALT ROLL ROOFING (ORGANIC FELT) (type or NA) Type I—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ² Type II—Minimum net mass per unit area of roofing, 54.6 lb/100 ft ² Type III—Minimum net mass per unit area of roofing, 51.1 lb/100 ft ² Type IV—Minimum net mass per unit area of roofing, 39.8 lb/100 ft ² B. ASTM D 228-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING (type or NA) Type I—Commonly called No. 15 asphalt felt Type II—Commonly called No. 30 asphalt felt C. ASTM D 2626-95 STANDARD SPECIFICATION FOR ASPHALT-SATURATED AND COATED ORGANIC FELT BASE SHEET USED IN ROOFING (yes, no, or NA) D. ASTM D 4869-88 (1993) STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT SHINGLE UNDERLAYMENT USED IN ROOFING (type or NA) Type I—Shingle Underlayment Type II—Heavy Duty Shingle Underlayment E. ASTM D 1970-95 STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIALS USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION (yes, no, or NA) F. OTHER ASTM SPECIFICATION (specify)	NA NA X NA NA NA X NA NA	NA NA NA NA NA NA X NA NA	NA NA NA NA NA NA X NA NA
12. ACCEPTED BY THE FOLLOWING CODES			
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.	W.R. GRACE & CO.- CONN.	W.R. GRACE & CO.- CONN.	W.R. GRACE & CO.- CONN.
#30 SPLIT FELT	#30 SHAKE LINER	WARRIOR CHOICE	VYCOR ICE & WATER SHIELD	VYCOR SELECT	VYCOR ULTRA
X	X	X			
			X	X	X
NO. 30 SHAKE FELT	TYPE II (D 226) SHAKE FELT	TYPE 1 (D4869)			
18	18	36			
108	108	400			
22	29	30			
			MODIFIED BITUMEN 1	MODIFIED BITUMEN 1	BUTYL 1
			MODIFIED ASPHALT SELF-ADHERING	MODIFIED ASPHALT SELF-ADHERING	BUTYL SELF-ADHERING
			36	36	34
			108/225	195	199
			35/67	34	43
NO	NO	NO	NO	NO	NO
		X	X	X	X
		X	X	X	X
		X	X	X	X
		X	X	X	X
		X	X	X	X
		X	X	X	X
X	X	X	X	X	X
1989	1989	1994	1978	1997	1997
5 MILLION	1 MILLION	< 1 MILLION			
200 ±	200 ±	< 100			
NO	NO				
NO	NO	NO	YES	YES	NO
NA	NA	NA			
	X				
NA	NA	NA			
NA	NA				
NA	NA	X			
NA	NA				
NA	NA		YES		
			ICBO, SBCCI, BOCA METRO-DADE COUNTY, FL	ICBO	ICBO
B. LA RUE 800/749-3358	B. LA RUE 800/749-3358	B. LA RUE 800/749-3358	800/444-6459	800/444-6459	800/444-6459
D. CARDEN 800/749-3358	D. CARDEN 800/749-3358	D. CARDEN 800/749-3358	800/444-6459	800/444-6459	800/444-6459

Appendix

ASPHALT SHINGLES

Atlas Roofing Corporation

For roofing shingle products Atlas' regional sales offices are: Ardmore, OK 800/261-2852 FAX 405/223-6894; Daingerfield, TX 800/270-2852 FAX 903/645-2291; Franklin, OH 800/260-2852 FAX 513/746-6040; Hampton, GA 800/251-2852 FAX 770/946-5249; Meridian, MS 800/477-7993 FAX 601/483-7344; Quakertown, PA 800/254-2852 FAX 215/538-3083.

Atlas' corporate addresses are: Corporate Sales and Marketing, 1775 The Exchange, Suite 160, Atlanta, GA, 30339; Corporate Office, 802 Hwy 19 North, Suite 190, Meridian, MS, 39307; or, access their web site at www.atlasroofing.com.

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. Some Celotex FRS shingles are 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 AR 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 "Shangle" 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

Shangle" 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 Shangle	Fiberglass	EC, LC, NC	7, 7, 8
Carriage House Shangle	Fiberglass	EC, LC, NC	6
Hallmark Shangle	Organic	LC, NC	7, 8
Independence Shangle	Fiberglass	EC, LC, NC	9, 9, 8
Landmark 40	Fiberglass	EC, LC, NC	9, 9, 11
Landmark 30	Fiberglass	EC, LC, NC	9, 9, 7
Landmark 25	Fiberglass	EC, LC, NC	9
Classic Horizon Shangle	Fiberglass	EC	8
New Horizon Shangle	Fiberglass	LC, NC	9, 9
Highlands AR Shangle	Fiberglass	EC	9
Hearthstead	Organic	NC	8
Custom Sealdon 30	Organic	LC, NC	10, 11
XT 30	Fiberglass	EC, LC, NC	11, 13, 10
Sealdon 25	Organic	LC, NC	10, 11
XT 25	Fiberglass	EC, LC, NC	11, 10, 10
FungusBuster 25	Fiberglass	EC	7
Custom Lok 25	Organic	LC, NC	9, 8
Solid Slab	Organic	LC, NC	8
CertainTeed 20	Fiberglass	EC	8

All Grand Manor and Carriage House shingles are algae-resistant and are available in all regions. In the East Coast region only, other algae-resistant shingles are available: all FungusBuster 25 shingles and Highlands AR Shangle shingles, and as an optional feature with Landmark 40 and Landmark 30 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 40, Landmark 30, Landmark 25, Classic Horizon, New Horizon, Highlands AR, 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, except for CertainTeed 20, and CertainTeed XT-25 (East Coast Region only). 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 610/341-7940.

Elk Corporation

Following are Elk Corporation's regional sales offices and their phone numbers: Northern, Hunt Valley, Md.: 800/944-4344; Southeast, Norcross, 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:

Color	Ennis, TX			Shafter, CA			Duncanville, AL		
	Prestique Plus	Prestique I	Prestique II	Prestique Plus	Prestique I	Prestique II	Prestique Plus	Prestique I	Prestique II
1. Antique Slate	X	X	X	X	X	X	X	X	X
2. Weatheredwood	X	X	X	X	X	X	X	X	X
3. Shalewood	X	X	X	X	X	X	X	X	X
4. Sablewood	X	X	X	X	X	X	X	X	X
5. Hickory	X	X	X	X	X	X	X	X	X
6. Barkwood	X	X	X	X	X	X	X	X	X
7. Birchwood	X	X	X	X	X	X	X	X	X
8. Forest Green	X	X	X	X	X	X	X	X	X
9. Aspen White				X	X	X			
10. Wedgewood							X	X	
11. Sandalwood							X	X	X

ASTM 3462-93a is met by Prestique products labeled as such on the bundle wrapper.

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. Timberline 25 shingles, in select colors, comply with ASTM 3462-93a.

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: 972/580-5604. Corporate headquarters are in Irving, Texas, phone: 972/580-5600.

Owens Corning

All Owens Corning shingles have a tough Fiberglas mat at the core and a weather-grade asphalt coating which helps the roof resist moisture absorption and helps prevent curling, blistering and buckling. Colored granules help protect the shingles from weathering and aging and preserve the roof's aesthetic appearance. Color availability varies by region. Owens Corning offers two lines of shingles, Architectural and Traditional.

The Architectural series: Oakridge Shadow, the premiere architectural laminated shingle, features a strong, dominant shadow line for added depth and dimension, and the most weathering-grade asphalt available. (An algae-resistant version is available on a regional basis.) Prominence, a revolutionary, high performance, architectural three-tab shingle, features distinctive color blends and shadow lines which provide the visual depth and dimension characteristic of a laminated shingle, and additional weathering-grade asphalt. (An algae-resistant version is available on a regional basis.) Oakridge Plus and Oakridge II are laminated shingles with a dramatic shadow line and random color blends for added depth and style. Oakridge Plus has additional weathering-grade asphalt. (Algae-resistant versions of both are available on a regional basis.)

The Traditional series: Glaslock has a unique interlocking design and additional weathering-grade asphalt. Supreme Shadow features a shadow line for an added look of dimension, and additional weathering-grade asphalt. Supreme is a premium three-tab shingle with additional weathering-grade asphalt. (An algae-resistant version is available on a regional basis.) Classic is a standard three-tab shingle, with durable weathering-grade asphalt.

For additional product or technical information and assistance, call Owens Corning at 800/ROOFING.

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.

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.

Monier Lifetile

MidSpan Battens are required at all pitches on Trulite flat

tile. Bermuda Flat tiles and Barrel tile are mortar set only products. Cedarlite requires one screw, or, two fasteners per tile.

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. The can be used for ornamental patterns or conical towers. They are nailed to the deck or hung on a wooden battens system.

Stirling Building Products Limited

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

METAL ROOF COMPONENTS

Atas International, Inc.

Atas International, Inc. 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. and Center for Approval Engineering in St. Petersburg, 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.

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: 972/580-5604. Corporate headquarters are in Irving, Texas, phone: 972/580-5600.

