



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Re-Con Building Products**

**P. O. Box 1094**

**Sumas**

**WA 98295**

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT SECTION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

***Fiber Cement: Shake, Shingles, Slate Profiles***

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

**Acceptance No.: 97-0311.01**

**Expires: 06/08/2003**

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS**

**BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director

Miami-Dade County  
Building Code Compliance Office

**Approved: 06/08/2000**



**PRODUCT CONTROL NOTICE OF ACCEPTANCE ROOFING ASSEMBLY APPROVAL:**

Category: Roofing  
 Sub-Category: Slate & Shakes

Approval Date: June 8, 2000

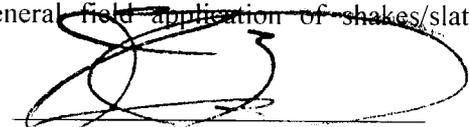
Expiration Date: June 08, 2003

**TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:**

| <u>Product</u>                     | <u>Dimensions</u>   | <u>Test Description</u> | <u>Product Description</u>                               |
|------------------------------------|---|-------------------------|--|
| Re-Con Fire Free Roofing Materials | L=22 1/2"<br>W=5,7, &12" Shake<br>W=12" Slate<br>3/4" to 1/4" thickness<br>Exposure max.= 10" | PA 135                  | Wood shake, shingle, and slate simulated<br>Fiber-cement |

**Approved Systems:**

- Deck Type:** Wood, Non-insulated
- Deck Description:** New construction 1 9/32" or greater plywood or wood plank.
- SYSTEM B:** Direct Deck Application
- Slope Range:** 4":12" or greater
- Underlayment** A single layer of ASTM D 226, type II organic felt overlapped 4" fastened with minimum 12 ga x 1 1/4" corrosion resistant roofing nails and minimum 32 ga x 1 5/8" diameter tin caps spaced 12" o.c. in the field and 6" o.c. at the laps.
- Interlayment** Minimum #30 ASTM D 226 type II organic felt 18" wide, is laid horizontally, with 8" head laps and 6" end laps. The Fire Free Plus roofing material is interwoven with the felt by tucking the top 2 1/2" of each piece under the corresponding course of interlayment felt. Properly installed there should be **no** felt visible in the key way between shakes or slate pieces.
- Edge Metal** Shall be in accordance with the South Florida Building Code Chapter 34 and Roofing Application Standard RAS 111.
- Valley Metal** Valley metal shall be in accordance with Chapter 34. The valley metal shall be underlaid as a minimum with an additional full sheet of ASTM D226 type II, organic felt, installed over the underlayment and centered in the valley. The additional underlayment sheet shall be fastened along each edge, 6" o.c. with minimum 12 ga. X 1 1/4" roofing nails and minimum 32 ga. X 1 5/8" diameter tin caps. The valley metal shall be preformed with a minimum 1" high center crimped water diverter. The valley shall be flashed with a minimum Type 30, 36" ASTM felt underlayment installed beneath a minimum 26 gauge, nominal 24" wide, corrosion resistant, galvanized sheet metal valley flashing in addition to the underlayment required for general field application of shakes/slate.

  
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Fasten the valley metal with minimum 12 ga. X 1 ¼" annular ring shank roofing nails of similar and compatible material to the valley metal and spaced along each edge of the valley metal 12" o.c., no more than 1" in from the exterior edge. Valley metal laps shall be a minimum of 8", ASTM D4586 flashing cement shall be applied between the laps. FireFree shakes/slate fasteners shall be kept back at least 8" from the valley center line.

**FireFree Shake,  
Shingle and Shake :**

Install FireFree roofing material as follows (See Detail A):

A preservative treated wood lath starter strip ¼ x 1 3/8 x 48" shall be installed over the underlayment and drip edge metal at the eave. Fasten with ten 7d galvanized coil nails. The first course shall be doubled at the eave line with the bottom being the FireFree starter pieces. The starter pieces measure 14 inches (355.6mm) long by 5, 7 or 12 inches (127, 178 or 305 mm ) wide. The first course shall extend beyond the fascia a maximum of 1½ inches (38mm). The maximum overhang on the gable shall be 2 inches (51 mm).

The first course is laid over the tapered FireFree Building Products starter piece with the leading edges flush with the leading edge of the starter course. The starter course shall be fastened with two 6d (.093" shank diameter x 2 inch long x 0.25" head diameter) ring shank galvanized nails. The products shall be laid with approximately ¼ to ½ inch side joint spacing between pieces within the same course. The side joint spacing between adjacent courses shall be a minimum of 1½ inch (38 mm) spacing. The maximum exposure shall be 10". Each piece shall be fastened with a minimum of two 6d galvanized nails located between ½ inch and 1 ½ inch (12.7 and 38 mm) above the exposure line to insure penetration into the tail end of the piece beneath for the 5 and 7 inch wide products. For the 12 inch wide products, a minimum of three 6d nails are required. The fasteners shall penetrate through the bottom of the sheathing a minimum of 3/16" or shall penetrate 1" into sheathing that is 1" or more in thickness.

Additionally, each 5" and 7" wide pieces shall be fastened with two (2), and all 12" pieces by three (3), 6d x 1 ¼" galvanized nails installed at a 30 degree angle from normal to the surface of the roofing at the butt. The butt fastener shall be located 1 ¾" (44.5mm) from the butt end, with the head pointing to fastening strip and away from the free or butt end of the FireFree Roofing Material. The butt fastener shall not penetrate into the underlayment or into the wood deck.

Follow the standard application instructions for FireFree Roofing Materials and in addition apply a ¼" x 10" bead of adhesive on every nail starting on the nail heads of the 16" starter course pieces, place a thimble sized "ball" of adhesive and continue the bead vertically up to where the felt underlayment laps into the piece. For the Rustic Shake field material, use 2" bead per 5" and 7" piece, and three (3) beads per 12" piece (the middle bead is just a straight bead with no adhesive "ball" at its start). For Quarry Slate, two (2) beads per 12" piece, (starting on the nail heads), is sufficient. T

Staggered Course Rustic Shake or Staggered Quarry Slate application may be achieved by changing the length of the exposure of the felt, and the length of the exposure of the FireFree Roofing product.

**Hip and Ridge**

Prior to installing the hip ridge units, the field interlayment should lap the peak of the hip or ridge at least 4" each way resulting in a double layer of felt. The

  
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remaining field material is applied then a 6" wide strip of felt is laid on top along the peak line. Then the hip and ridge pieces are applied on top.

Hip and Ridge units are tapered, beveled, and stapled together to ensure ease of application. The units are 22 1/2" long, extend down each side of the ridge 4 3/4" and expose no more than 10" to the weather. They are designed with an alternating left/right stapled joint lap to deliver a straight hip and ridge line. Hip and ridge application requires a double course (a hip and ridge "starter" under the first exposed hip and ridge) at the eave line (hip ends) and gable apex (ridge ends). A minimum of one screw or nail per side of the hip and ridge unit is required. Fasteners must be long enough to penetrate the nailing zone of the hip and ridge, the field material at the ridge, and a minimum penetration of 1/2" into the sheathing.

**Maximum Design Pressure** -81.25 lbf

**Minimum Slope** 3:12

**Comments:** 1. For re-roof applications, 15/32" plywood is an acceptable substrate.

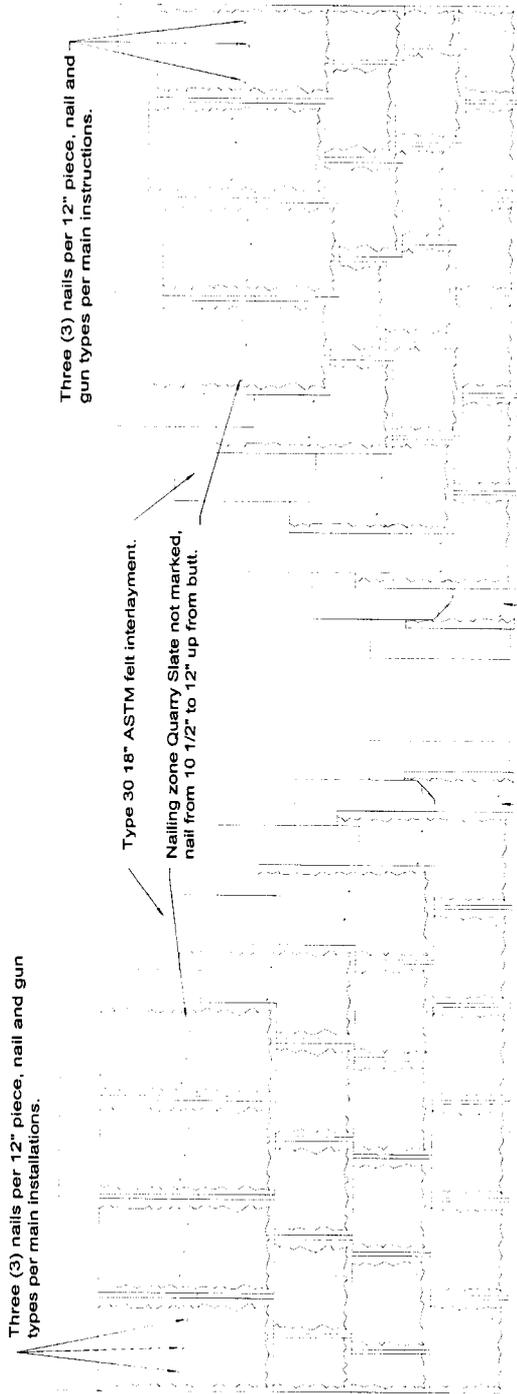
#### SYSTEM LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Fasteners for mechanical attachment shall be installed within the fastener strip provided for each type of product.
3. Applications for roofing permits must be accompanied by Section II of the Uniform Building Permit, clearly indicating the extent of the work to be performed, along with current manufacturer's specifications and details. In addition, a copy of this approval shall be attached to the permit application. Reference shall be made to all appropriate data for the required fire rating.
4. The applicant shall retain the services of a Miami-Dade County certified testing laboratory to maintain quality control in compliance with the South Florida Building Code.
5. The FireFree Roofing Materials shall bear the imprint or identifiable marking of the manufacturer's name or logo for identification in the field.



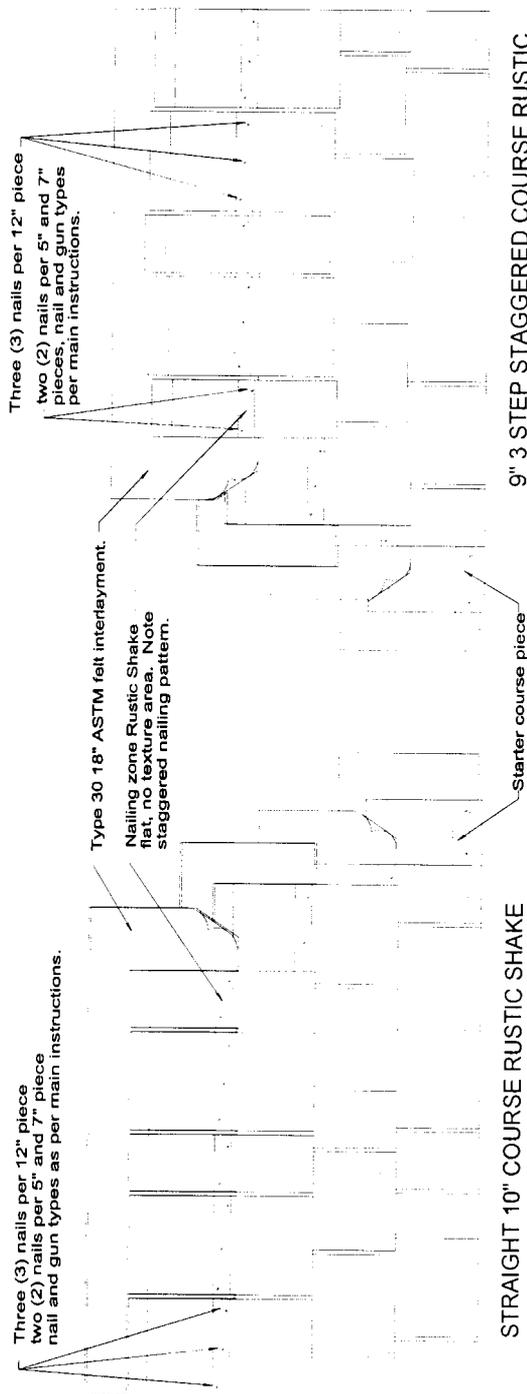
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DETAIL A



STRAIGHT 10" COURSE QUARRY SLATE

8" 3 STEP STAGGERED QUARRY SLATE



STRAIGHT 10" COURSE RUSTIC SHAKE

9" 3 STEP STAGGERED COURSE RUSTIC

FIREFREE SHAKE & SLATE

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**NOTICE OF ACCEPTANCE STANDARD CONDITIONS**

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
  - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
  - b) The product is no longer the same product (identical) as the one originally approved;
  - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
  - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
  - a) Unsatisfactory performance of this product or process;
  - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 6.

**END OF THIS ACCEPTANCE**

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Roofing Product Control Examiner