



BUILDING CODE COMPLIANCE OFFICE
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CONTRACTOR ENFORCEMENT DIVISION
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Eternit, Inc.
210 Corporate Drive
Reading ,PA 19605

Your application for Notice of Acceptance (NOA) of:

Eternit Slate Roofing Systems

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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 00-1127.01
EXPIRES: 02/01/2006

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 02/01/2001



ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: 07320 Roofing Tiles

Approval Date: **February 1, 2001**

Expiration Date: **February 1, 2006**

Materials Fiberous Cement Tiles
Deck Type: Wood

SCOPE:

This approves a roofing system using Eternit Roofing Slates, a fiber cement roofing slates manufactured by Eternit Inc. as described in this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by applicable building codes, do not exceed the design pressure values obtain by calculations in accordance with RAS 127 section 3 as an uplift based system using the values listed in Table 2 herein.

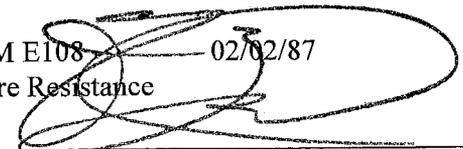
PRODUCT DESCRIPTION:

| <u>Product</u> | <u>Dimensions</u> | | | <u>Test</u> | <u>Description</u> |
|------------------------|-------------------|--------------|-----------------|----------------------|---|
| | <u>length</u> | <u>width</u> | <u>thicknes</u> | <u>Specification</u> | |
| Eternit Roofing Slates | 15-3/4" | 10-5/8" | 3/16" thick | PA 135 | Fiber reinforced cement slate with pigmented coating on face and clear sealer protection on back. |
| | 400mm | 270mm | 4mm | | |
| | 23-5/8" | 11-13/16" | 3/16" thick | | |
| | 600mm | 300mm | 4mm | | |
| | 19-11/16" | 9-13/16" | 3/16" thick | | |
| | 500mm | 250mm | 4mm | | |
| | 15-3/4" | 7-7/8" | 3/16" thick | | |
| | 400mm | 200mm | 4mm | | |

COMPONENTS OR PRODUCTS MANUFACTURED BY OTHERS:

| <u>Product</u> | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u> | <u>Manufacture</u> |
|----------------|---|---------------------------|---|--------------------|
| Slate Nails | Length: min. 1-5/8" Thickness: min. 11 ga. Head diameter min. 7/16" | N/A | Copper, 11 ga. roofing nail, min. 1-5/8" long or non-collated, hot-dipped galvanized. | generic |
| Storm Anchors | Base: 3/4" dia. x 0.020" thick Stem: 1/16" dia. x 3/4" long | N/A | Copper clip (crampion) for installation at bottom edge of slate. | generic |

EVIDENCE SUBMITTED:

| <u>Test Agency</u> | <u>Test Identifier</u> | <u>Test Name/Report</u> | <u>Date</u> |
|-------------------------------------|------------------------|---------------------------------------|--|
| Factory Mutual Research Corporation | J.I. 1N6Q1.AC | ASTM E108 External Fire Resistance | 02/02/87 |
| | | |  |
| | | | Frank Zuloaga, RRC Roofing Product Control Examiner |

ETERNIT INC.ACCEPTANCE No. : **00-1127.01**

| | | | |
|-----------------------------|-----------|--|----------|
| Architectural Testing, Inc. | ATI-18229 | PA 102(A) Static Uplift | 10/11/96 |
| PFS Corporation | #94-02 | ASTM C 67 Freeze/Thaw | 07/18/94 |
| PFS Corporation | #96-13 | PA 135 | 08/29/96 |
| PFS Corporation | #91-07B | Physical Properties Hot-Water Testing | 07/22/91 |
| PFS Corporation | #90-44B | Water Absorption | 12/20/90 |
| PFS Corporation | #90-44A | Permeability | 12/18/90 |

APPROVED ASSEMBLY:**Deck Type:** Wood, Non-insulated**Deck Description:** New Construction: $\frac{19}{32}$ " or greater plywood or wood plank.**Slope Range:** 4:12" or greater**Underlayment:** Double layer application (50% overlap) of ASTM D 226, type II or ASTM D 2626 coated base sheet, fastened with corrosion resistant tin-caps and 12 gauge 1-1/4" annular ring-shank nails, spaced 6" o.c. at all laps and two staggered rows 12" o.c. in the field of the roll., Or

An approved self-adhered membrane having a current NOA adhered to a single layer of ASTM D 226, type II or ASTM D 2626 coated base sheet fastened as listed above.

Valleys: (Open Valleys) Valley metal shall be a minimum 24" preformed W-shape metal. Valley metal shall be set over 36" sweat sheet of minimum ASTM D 2626 embedded in roofing cement, or approved self-adhered membrane. Valley metal shall be secure with clips fabricated from similar or compatible material. Clips shall be spaced a maximum 12" o.c, and secured with a minimum of 2 approved 1-1/4" roofing nails set in roofing cement. Trim metal at all valley/ridge junctions, ensuring water-shedding capabilities onto the valley. Install metal soaker at all valley junctions. Turn soaker up a minimum of 1" to create a water diverter, ensuring water-shedding capabilities. Valley detail shall be in accordance with the current published installation instructions and details in Eternit Inc current installation manual.

Fiber Cement Slates: Each Eternit Slate shall be secured with a minimum of two nails and Eternit copper storm clip cliche. Slate nails shall be corrosion resistant 11 gage ring shank nail having a minimum head diameter of $\frac{7}{16}$ ". Installation shall be in accordance with Eternit published installation instructions.



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Roofing Product Control Examiner

DATA FOR ATTACHMENT CALCULATIONS:

Calculations shall be in compliance with RAS 127 as an uplift based system (RAS 127 section 3).

| Table 1: Average Weight (W) and Dimensions (l x w) | | | |
|---|-----------------------|--------------------------|-----------------------|
| Slate | Weight-W (lbf) | Length - l (feet) | Width-w (feet) |
| Eternit Slates | 2.10 | 1.31 | 0.89 |
| | 2.10 | 1.64 | 0.82 |
| | 2.10 | 1.31 | 0.66 |
| | 3.04 | 1.97 | 0.93 |

| Table 2: Minimum Characteristic Resistance Load - F' (lbf) | | |
|---|-------------------------------|--------------------------------------|
| Slate | Method of Installation | Minimum Attachment Resistance |
| Eternit Slates (all sizes) | Two nails and storm clip | 39.5 lbf |

LIMITATIONS

1. This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
2. All Slates shall bear the imprint or identifiable marking of the manufacturer, name or logo, or following statement: "Miami-Dade County Product Control Approved".
3. The applicant shall retain the services of a Metro-Dade County certified testing laboratory to maintain quality control in compliance with the South Florida Building Code.
4. Application for building permit shall be accompanied by copies of the following:
 - a. This Notice of Acceptance.
 - b. Any other documents required by the Building Official or applicable Building Code in order to properly evaluate the installation of this system.



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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 5

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Product Control Examiner