



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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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

Apache Products Company
P.O. Box 7111
Jackson, MS 39282

Your application for Notice of Acceptance (NOA) of:

Roof Insulation and Sheathing Foam Panels

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.: 01-0306.03
EXPIRES: 05/31/2006

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: 05/31/2001

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Category: Roofing
Sub-Category: Insulation
Type: Insulation and Sheathing Foam Panels
Sub-Type: Polyisocyanurate

Approval Date: May 31, 2001
 Expiration Date: May 31, 2006

TYPICAL PHYSICAL PROPERTIES:

<u>Property</u>	<u>Test</u>	<u>Typical Results</u>
Density	ASTM D 1622	2.0 lbs./ft. ³ 2.1 lbs./ft. ³ (PSI-25)
Compressive Strength	ASTM D 1621	18 PSI 25 PSI (PSI-25)
Water Absorption	ASTM C 209	Less than 1% by volume
Moisture Vapor Transmission	ASTM E 96	Less than one (1) perm
Surface Temperature		-100° F to +250° F Max
Surface Burning Characteristics (4" Foam Core Max.)	ASTM E 84	Flamespread: 25 Smoke Developed: 60

Note: The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation. Numerical ratings as determined by ASTM Test Method E-84 are not intended to reflect hazards presented by this or any other material under actual fire conditions.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Tradename: Apache Pyrox and Apache Tapered Pyrox, Apache White Line & Tapered White Line
Thickness: 0.5" - 4.1" (12.5-104 mm)
Board Size(s): 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core: Polyisocyanurate foam
Facers: Fiberglass reinforced felt or fiberglass felt
Decks: Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application: Tapered or flat boards. Multilayer systems may have a first or second layer of Pyrox or White Line tapered or flat followed by a top layer of Pyrox or White Line tapered or flat. Maximum thickness is 12 in. (305 mm). All layers may be mechanically fastened through the top layer when the top layer is minimum 1.4 in. (36 mm) thick, or the bottom layer may be secured with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²) or mechanically fastened with subsequent layers adhered with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²). When a fully adhered single-ply roof cover is used, the top layer insulation is minimum 0.5 in. (13 mm) thick, otherwise minimum thickness of top layer is 1.4 in (36 mm).



Frank Zuloaga, RRC
 Roofing Product Control Examiner

Tradename: Apache Pyrox PSI-25 and Apache Tapered Pyrox PSI-25, Apache White Line PSI-25& Tapered White Line PSI-25
Thickness: 0.5" - 4.1" (12.5-104 mm)
Board Size(s) 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core: Polyisocyanurate foam
Facers: Fiberglass reinforced felt or fiberglass felt
Decks: Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application: Tapered or flat boards. Multilayer systems may have a first or second layer of Pyrox or White Line tapered or flat followed by a top layer of Pyrox or White Line tapered or flat. Maximum thickness is 12 in. (305 mm). All layers may be mechanically fastened through the top layer when the top layer is minimum 1.4 in. (36 mm) thick, or the bottom layer may be secured with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²) or mechanically fastened with subsequent layers adhered with hot asphalt at an application rate of 25 lbs./sq. (1.2 kg/m²). When a fully adhered single-ply roof cover is used, the top layer insulation is minimum is 0.5 in. (13 mm) thick, otherwise minimum thickness of top layer is 1.4 in (36 mm).

Tradename: Apache Millox
Thickness: 1.5" - 4.1" (38-104 mm)
Board Size(s) 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core: Polyisocyanurate foam
Facers: Wood fiber 0.5 in. (13 mm), top; fiberglass reinforced felt on the other side.
Decks: Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application: Multilayer systems may have a first or second layer of Pyrox tapered or flat, followed by a top layer of Millox Plus. Maximum total thickness is 12 in (305 mm). See Pyrox for securement.

Tradename: Apache Millox-P and Apache Tapered Millox-P
Thickness: 1.5" - 4.1" (38-104 mm)
Board Size(s) 4' x 4' (1.2 x 1.2 m) and 4' x 8' (1.2 x 2.4 m)
Core: Polyisocyanurate foam
Facers: Perlite 0.5 in. (13 mm), top or bottom; fiber reinforced organic or glass felt on the other side.
Decks: Concrete, Cementitious Wood Fiber, Steel, Wood, Lightweight Concrete, Gypsum
Special Application: Multilayer systems may have a first or second layer of Pyrox tapered or flat, followed by a top layer of Millox-P tapered or flat. Maximum total thickness is 12 in (305 mm). See Pyrox for securement.

Tradename: Apache Iso-foil
Thickness: 0.5" - 4.0" (12.5-101.6 mm)
Board Size(s) 4' x 8' (1.2 x 2.4 m) and 4' x 9' (1.2 x 2.7 m)
Core: Polyisocyanurate foam
Facers: Triplex foil.
Decks: N/A
Special Application: Commercial and residential, concealed applications where protected by a 15 minute thermal barrier.



COMMENTS AND LIMITATIONS:

1. Roof assemblies are approved under specific roof cover's Product Control Notice of Acceptance.
2. Apache Products Company products may be used with any approved roof covering listing a specific Apache Products Company's product as a component part of a roof assembly Notice of Acceptance.
3. Fire classification is not a part of this Notice of Acceptance

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	FM 4450/4470	FM Approval Guide Listings	Published Annually
Underwriters Laboratories	Fire Classification UL 790	UL Roofing Materials and Systems Directory File No. R-9340	Published Annually



Frank Zuloaga, RRC
Roofing Product Control Examiner

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