



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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CONTRACTOR LICENSING SECTION
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CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Construction Fasteners, Inc.
P.O. Box 6326 Spring Street and VanReed Rd.
Wyomissing, PA 19610

Your application for Notice of Acceptance (NOA) of:
Construction Fasteners Base Ply Fastening 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.: 01-0124.10
EXPIRES: 04/05/2006

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: 04/05/2001

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roof Fasteners

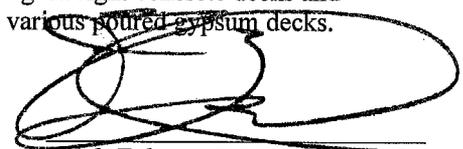
Approval Date: 04/05/2001

Expiration Date: 04/05/2006

Materials: Steel
Maximum Design Pressure N/A.
Fire Classification: N/A

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
FM-30 Bearing Stress Plate	2.7" round stress plate	PA 114	Steel bearing stress plate, coated with AZ-55 galvalume or black urethane coating on both sides, for use with FM-45 and FM-60 fasteners for base ply attachment.
FM-45 Base Ply Fastener	1.2" head x 1.2" long	PA 114	Formed from 0.013 in. thick G-90 hot dipped galvanized steel. The integral rib reinforced cap is coated on both sides with a black urethane coating. The stems are uncoated. For use in NVS concrete and various poured gypsum decks.
FM-60 Base Ply Fastener	1.2" head x 1.7" long	PA 114	Formed from 0.013 in. thick G-90 hot dipped galvanized steel. The integral rib reinforced cap is coated on both sides with a black urethane coating. Stems are not coated. For use in cellular or aggregate lightweight concrete decks and various poured gypsum decks.
FM-75 Assembled Base Ply Fastener	2.7" head x 1.2" long	PA 114	Formed from 0.013 in. thick G-90 hot dipped galvanized steel. The integral rib reinforced cap is coated on both sides with a black urethane coating. A 2.7 in. diameter disc formed from 0.013 AZ-55 galvalume steel is factory assembled to each fastener. For use in cellular and aggregate lightweight concrete decks and various poured gypsum decks.
FM-90 Assembled Base Ply Fastener	2.7" head x 1.7" long	PA 114	Formed from 0.013 in. thick G-90 hot dipped galvanized steel. The integral rib reinforced cap is coated on both sides with a black urethane coating. A 2.7 in. diameter disc formed from 0.013 AZ-55 galvalume steel is factory assembled to each fastener. For use in cellular and aggregate lightweight concrete decks and various poured gypsum decks.



Frank Zuloaga, RRC
 Roofing Product Control Examiner

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Wind Uplift	J.I. 0R0Q1.AM	03/22/91
Factory Mutual Research Corporation	Wind Uplift	J.I. 1V1A9.AM	07/12/91
Factory Mutual Research Corporation	Standard 4470	J.I. 0V8A3.AM	11/13/91
Factory Mutual Research Corporation	Standard 4470	J.I. 1V9A8.AM	02/25/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 0W2A0.AM	03/19/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 1W5A2.AM	10/05/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 0W4A1.AM	01/04/93
Factory Mutual Research Corporation	Standard 4470	J.I. 3W3A5.AM	01/27/94
Consultants Report to Dade County Building Code Compliance Office	Withdrawal Resistance PA 117(A)	Report #5.94.27	05/27/94
Trinity Engineering, Inc.	Dynamic Pull Through PA 117(B)	Report #4670.10.95-1	10/01/95

TYPICAL PROPERTIES:

LIGHTWEIGHT CONCRETE DECKS

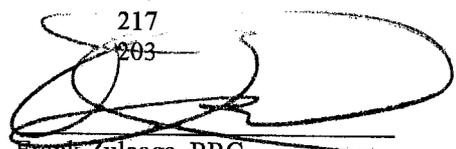
Fastener	Deck Type	Withdrawal Resistance			
		3 days	15 days	21 days	28 days
FM-60 & FM-90	Aggregate Lightweight	19 lbf	46 lbf	56 lbf	88 lbf
	Cellular Lightweight	46 lbf	77 lbf	112 lbf	141 lbf

OTHER NAILABLE DECKS

Fastener	Deck Type	Withdrawal Resistance
FM-45 & FM-75	Existing Gypsum	79 lbf

DYNAMIC PULL THROUGH PERFORMANCE (2.7" DIAMETER PLATE)

<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Value (lbf)</u>
Honeywell International	Black Armor Glass Base	206
GAF Materials Corporation	GAFGLAS #75	214
GS Roofing Products Company	Flex-I-Glas	219
GS Roofing Products Company	Poly SMS	257
Koppers Industries	Glass Fiber Base Sheet	216
Koppers Industries	Organic Base Sheet	188
Malarkey Roofing Company	#501 Premium I	220
Malarkey Roofing Company	#602 Arctic Shield	216
Malarkey Roofing Company	#603 Superbase	232
Malarkey Roofing Company	#605 Panoply	231
Johns Manville	Glasbase	141
Johns Manville	Dynabase	205
Johns Manville	Ventsulation	217
Siplast	Parabase	203


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DYNAMIC PULL THROUGH PERFORMANCE (2.7" DIAMETER PLATE)

<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Value (lbf)</u>
Siplast	Parabase Plus	199
SOPREMA, Inc.	Sopra-G	206
SOPREMA, Inc.	Elastophene 180	217
SOPREMA, Inc.	Sopralene 180	242
Tamko Roofing Products, Inc.	Versa Base	216
Tremco	BURmastic Glass Ply	227
Tremco	BURmastic Composite Ply	239
U.S. Intec, Inc.	Ultra Base	219
U.S. Intec, Inc.	Flex Base	234
U.S. Intec, Inc.	Modified Base	235
W.P. Hickman Systems, Inc.	Multi Ply	224
W.P. Hickman Systems, Inc.	Performance Ply	233
W.P. Hickman Systems, Inc.	Pika Ply	232

1. Dynamic Pull-Through Values listed relate to 2.7" diameter plate bonded between listed base sheet and one ply of type IV in 25 lbs/sq of ASTM D 312, type III asphalt.

APPROVED APPLICATIONS:

Tradename: FM-45 Base Sheet Fastener

Compatible Plate(s): FM-30 Discs.

Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance.

Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and approved attachment patterns.

Deck: NVS concrete, various poured gypsums, existing gypsum

Tradename: FM-75 Assembled Base Sheet Fastener

Compatible Plate(s): N/A

Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance

Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and approved attachment patterns.

Deck: NVS Concrete, various poured gypsums, existing gypsum

Tradename: FM-60 Base Sheet Fastener

Compatible Plate(s): FM-30 Discs.



Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance

Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Aggregate or Cellular lightweight insulating concrete, various poured gypsums, existing gypsum

Tradename: FM-90 Assembled Base Sheet Fastener

Compatible Plate(s): N/A

Base Sheet: See specific Roof Assembly Product Control Notice of Acceptance

Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Cellular or Aggregate lightweight insulating concrete, various poured gypsums, existing gypsum

GENERAL LIMITATIONS:

1. Fasteners listed herein shall not be used to attach insulation.
2. Refer to Roof Assembly Product Control Notice of Acceptance for fastener use, density and attachment patterns.
3. Perimeter and corner areas of all mechanically attached components require an increase in fastener density in accordance with applicable building codes and Roofing Application Standard RAS 117.
4. Fasteners shall be installed in strict compliance with manufacturer's installation instructions, and in accordance with Roofing Application Standard RAS 117.



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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 6.

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Product Control Examiner