



**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
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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**

**Soprema Roofing and Waterproofing, Inc.**  
310 Quadral Drive  
Wadsworth ,OH 44281

Your application for Notice of Acceptance (NOA) of:

**Soprema Tri-Fixx Fastener**

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.

Raul Rodriguez  
Chief Product Control Division

**ACCEPTANCE NO.: 01-0116.08**  
**EXPIRES: 03/01/2006**

**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: 03/01/2001**

**ROOFING SYSTEM APPROVAL**

Category: Roofing  
Sub-Category: Roofing Fastener  
Material: Steel

**Approval Date:** March 1, 2001  
**Expiration Date:** March 1, 2006

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

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Tri-Fix Fastener	3" diameter plate with fastener dimensions of 3.5" length 0.148 dia. Shank 0.313 dia. Head	PA 114 PA 117	Galvanized stress plate with three distending legs for membrane attachment to lightweight concrete, cementitious wood fiber and gypsum roof decks.

**EVIDENCE SUBMITTED:**

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Standard 4470 PA 114, Appendix E	J.I. 4D6A7.AM	04/26/99
Exterior Research & Design, LLC.	PA 117	#2714.05.98-1	05/15/98

**TYPICAL PROPERTIES:**

<b>Withdrawal Resistance Performance - PA 117(A) - <u>Static</u> Load (with 2 to 1 margin of safety applied)</b>			
<b>Fastener</b>	<b>Deck Type</b>	<b>3-Day Cure (lbf)</b>	<b>28-Day Cure (lbf)</b>
Tri-Fix	Min. 200-psi cellular lwc	52	140
	Min. 300-psi cellular lwc	82	173
	Min. 180-psi aggregate lwc	63	122
	Cementitious wood fiber	137	
	Poured gypsum	205	



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 Roofing Product Control Examiner

Withdrawal Resistance Performance - PA 117(A) - Pulsating Load (with 2 to 1 margin of safety applied)		
Fastener	Deck Type	Withdrawal (lbf)
Tri-Fix	Min. 200-psi cellular lwc	115
	Min. 300-psi cellular lwc	140
	Min. 180-psi aggregate lwc	100
	Cementitious wood fiber	105
	Poured gypsum	155

Base Sheet Rupture Performance - PA 117(B), Tri-Fix Plate (with 2 to 1 margin of safety applied)	
Base Sheet	Value
Sopra-G	109.4
Modified Sopra-G	105.6
Soprafix Membrane	221.5
Soprafixx Membrane	312.5

1. A 2 to 1 margin of safety has been applied to test results providing the above noted design values.

**APPROVED APPLICATIONS:**

**Tradename:** Tri-Fix

**Compatible Plate(s):** Tri-Fix Plate.

**Application:** Mechanical attachment of roof coverboards (noted above) or base sheets / base membranes in minimum two ply, modified bitumen roof systems. See specific Roof System Product Control Notice Of Acceptance for fastener density and approved attachment patterns.

Each nail must be placed through the punch marks indicated every 120°. Each nail must be driven at an angle between 45° and 60° from the horizontal plane of the deck substrate. The head of each nail must be flush to the nail ramp concentric ring. The nail must be driven by the N-DECK 3.5 Soprema multiple strike impact nail driver. No substitution shall be allowed.

**Deck:** Cellular or Aggregate Lightweight Insulating Concrete, Cementitious Wood Fiber, Poured Gypsum



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**DRAWINGS**

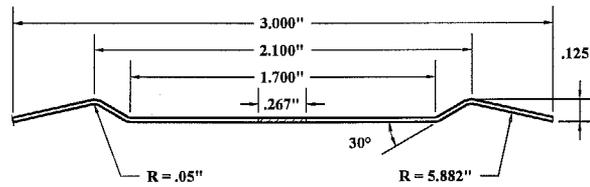
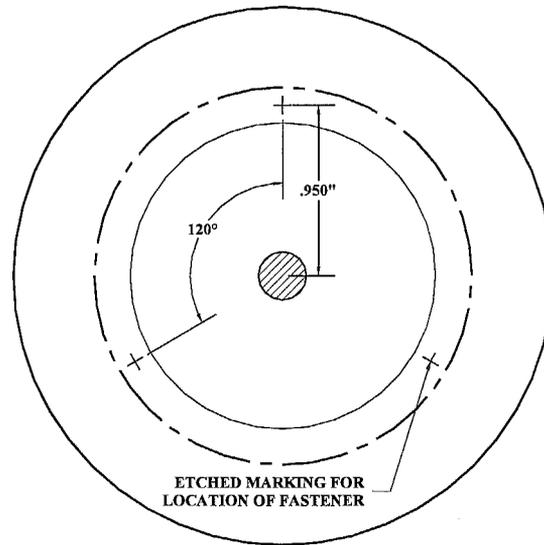
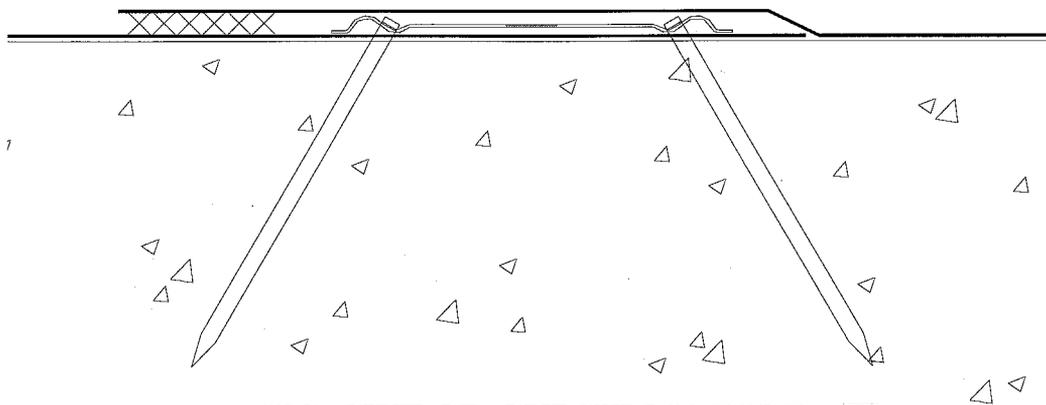


PLATE IS MADE FROM 26 GAGE (0.0188") GALVALUME MATERIAL SHALL HAVE A 45 TO 50 KSI YIELD STRENGTH



**LWC, CWF OR GYPSUM SUBSTRATE**

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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**



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Frank Zuloaga, RRC  
Roofing Product Control Examiner