MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

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

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

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

ITW Buildex
1349 W. Bryn Mawr Avenue
Itasca ,IL 60143

Your application for Notice of Acceptance (NOA) of:
Roof 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.: 01-0828.02
EXPIRES: 09/27/2006

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: 09/27/2001

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category Fastener
Material: Steel

Approval Date: **September 27, 2001**
Expiration Date: **September 27, 2006**

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

Product	Dimensions	Test Specifications	Product Description
Hextra	#12 x 8" max. Length, 1/4" hex washer head.	PA 114	Hex washer head, modified buttress thread drill point, carbon steel fastener for use in steel or wood decks. With Spex or Climaseal coating.
#12 Roofgrip	#12 x 8" max. Length, #3 phillips head.	PA 114	Phillips head, modified buttress thread, drill point, carbon steel fastener for use in steel or wood decks. With Spex coating.
#14 Roofgrip	#14- x 14" max. Length, #3 phillips head.	PA 114	Phillips head, standard thread, drill point, carbon steel fastener for use in metal, wood or concrete decks. With Spex or Climaseal coating.
15" Roofgrip	15" x 14" max. Length, #3 phillips head.	PA 114	Phillips head, modified buttress thread, drill point, carbon steel fastener for use in steel, wood, or concrete decks.
Polymer GypTec	3/4" x 8" max. Length, 1/4" square drive pan head.	PA 114	Square drive pan head, modified buttress thread, glass reinforced nylon fastener for use in gypsum and Tectum decks.
Polymer GypTec Metal Plate	3" square	PA 114	AZ-55 Galvalume plate for use with the Polymer GypTec fastener.
Recessed Metal Plate	3" square; .018"- .021" thick.	PA 114	AZ-55 aluminized steel plate for use with Hextra, #12 Roofgrip, #14 Roofgrip and #15 Roofgrip.
Buildex 3" Round Metal Plate	3" round, .018"- .021" thick.	PA 114	AZ-55 Galvalume coated steel plate for use with Hextra screw.
Gearlok Plastic Plate	3" diameter	PA 114	High-density polyolefin plate for use with Hextra, #12 Roofgrip, #14 Roofgrip and #15 Roofgrip.
2" Metal Seam Plate	2" round	PA 114	Galvalume plate for use with Hextra, #12 Roofgrip, and #14 Roofgrip
Flat Bottom Metal Plate	3" square; .018" - .021" thick	PA 114	A2-SS aluminized steel plate for use with #12 Roofgrip, #14 Roofgrip and #15 Roofgrip.

Frank Zuloaga, RRC
Roofing Product Control Examiner

EVIDENCE SUBMITTED

Test Agency/ Identifier	Name	Report	Date
Factory Mutual Research Corporation	Pull Out Test/ Wind Uplift	J.I. 3Z5A4.AM	02/23/96
Factory Mutual Research Corporation	Pull Out Test/ Wind Uplift	J.I. 1R0A4.AM	04/03/90
Factory Mutual Research Corporation	Pull Out Test/ Wind Uplift	J.I. 1N5A6.AM	06/22/87
Factory Mutual Research Corporation	Pull Out Test	J.I. 1T3A3.AM	11/26/91
Factory Mutual Research Corporation	Pull Out Test / Pull Through Test	J.I. 1V9A5.AM	09/16/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 0E6A9.AM	01/22/80
Factory Mutual Research Corporation	Pull Out Test / Wind Uplift / Pull Through Test	J.I. 0G1A9.AM	10/19/82
Trinity Engineering, Inc.	Pull Over Tests	Base Sheet Testing	07/12/94

TYPICAL PHYSICAL PROPERTIES

Concrete Deck

Product	Property(s) Tested	Test	Typical Results
#14 Roofgrip	Shear Test Pull Out Test	ASTM E 488	1019 lbf. 582 lbf.

22 ga. Steel Deck

Product	Property(s) Tested	Test	Typical Results
Hextra	Pull Out Test	ASTM E 488	519 lbf.
#12 Roofgrip	Pull Out Test	ASTM E 488	519 lbf.
#14 Roofgrip	Pull Out Test	ASTM E 488	415 lbf.
1/4" Roofgrip	Pull Out Test	ASTM E 488	550 lbf.

3/4" Plywood Deck

Product	Property(s) Tested	Test	Typical Results
Hextra	Pull Out Test	ASTM E 488	517 lbf.
#12 Roofgrip	Pull Out Test	ASTM E 488	517 lbf.
#14 Roofgrip	Pull Out Test	ASTM E 488	582 lbf.

Tectum Decks

Product	Property(s) Tested	Test	Typical Results
Polymer GypTec	Pull Out Test	ASTM E 488	233 lbf.

Gypsum Decks

Product	Property(s) Tested	Test	Typical Results
Polymer GypTec	Pull Out Test	ASTM E 488	386 lbf.

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Pull Over Test Results

Plate	Base Sheet	Test Value
3" Galvalume Square	Tamko TamGlas	136 lbf.
3" Galvalume Square	Schuller Glasbase	120 lbf.
3" Galvalume Square	Intec Ultrabase	134 lbf.
3" Galvalume Square	Malarkey 501	107 lbf.
3" Galvalume Square	Malarkey 601	129 lbf.
3" Galvalume Square	Black Warrior	126 lbf.
3" Galvalume Square	GAF # 75	137 lbf.
3" Galvalume Square	Celotex Vaporbar GB	117 lbf.
3" Galvalume Square	Celotex Vaporbar	113 lbf.
3" Galvalume Square	GS GlasBase	115 lbf.
3" Galvalume Square	ASTM # 30	106 lbf.
3" Galvalume Square	ASTM # 43	106 lbf.

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.

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APPROVED APPLICATIONS

TRADENAME: HEXTRA

Compatible Plate(s):	Gearlok plastic, 3" round metal plate, and 3" square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Product Control Approval (NOA).
Generic Insulation Types:	Polyisocyanurate, Perlite, Fesco board, High Density Wood Fiber, Fiberglass, Perlite/ Urethane Composite, with current NOA.
Application:	Mechanical attachment of roof insulation and membrane fastening assemblies. See specific Roof Assembly, Product Control Approval (NOA) for fastener density and approved attachment patterns.
Deck:	16-22 Ga. steel, wood, min. $^{19}/_{32}$" plywood or wood plank

TRADENAME: #12 ROOFGRIP

Compatible Plate(s):	Gearlok plastic, Standard plastic and 3" square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Product Control Approval (NOA).
Generic Insulation Types:	Polyisocyanurate, Perlite, Fesco board, High Density Wood Fiber, Fiberglass, Perlite/ Urethane Composite, with current NOA.
Application:	Mechanical attachment of roof insulation and membrane fastening assemblies. See specific Roof Assembly, Product Control Approval (NOA) for fastener density and approved attachment patterns.
Deck:	18-22 Ga. steel, wood, min. $^{19}/_{32}$" plywood or wood plank

TRADENAME: #14 ROOFGRIP

Compatible Plate(s):	Gearlock plastic, Standard 3" plastic and 3" square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof System Assembly, Product Control Approval (NOA).
Generic Insulation Types:	Polyisocyanurate, Perlite, Fesco board, High Density Wood Fiber, Fiberglass, Perlite/ Urethane Composite, with current NOA.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly, Product Control Approval (NOA) for fastener density and approved attachment patterns.
Deck:	18-22 Ga. steel, wood, min. $^{19}/_{32}$" plywood or wood plank, 2500psi concrete or concrete plank

TRADENAME: 1/4" ROOFGRIP

Compatible Plate(s):	Gearlok plastic, Standard 3" plastic and 3" square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof System Assembly, Product Control Approval (NOA).
Generic Insulation Types:	Polyisocyanurate, Perlite, Fesco board, High Density Wood Fiber, Fiberglass, Perlite/ Urethane Composite, with current NOA.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly, Product Control Approval (NOA) for fastener density and approved attachment patterns.
Deck:	22 Ga. steel

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TRADENAME: POLYMER GYPTEC

Compatible Plate(s):	Polymer GypTec Metal plates.
Generic Insulation Types:	Polyisocyanurate, Perlite/Urethane Composite, Perlite/Polyisocyanurate Composite, with current NOA.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly, Product Control Approval (NOA) for fastener density and approved attachment patterns.
Deck:	Tectum or gypsum

GENERAL LIMITATIONS

1. Refer to Roof Assembly Notices of Acceptance for use, density and attachment patterns.
2. Fasteners shall be installed in accordance with manufacturer's published installation instructions.
3. Care shall be taken not to puncture or tear the base sheet or insulation facer during fastener installation. Application recommendations are noted in Roofing Application Standard RAS 117.
4. Tru-Fast Corporation, fasteners are a component part of Miami-Dade Approved Roof Assembly. These products are approved for use only with those roof assemblies approved for use with the components listed herein.

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 2 through 7.

END OF THIS ACCEPTANCE

Frank Zuloaga, RRC
Roofing Product Control Examiner