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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:

Dekfast Roof Insulation & Membrane 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.: 01-0410.06
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

ROOF COMPONENT APPROVAL

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

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

TRADE NAMES OF PRODUCTS MANUFACTURED OR
 LABELED BY APPLICANT

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Dekfast 12	.209" dia. x 8" max. length; #3 phillips modified truss head.	PA 114 PA 117	Truss head modified BP type, milled slot self-drilling point, 13 threads per inch, carbon steel fastener for use on steel and wood decks. With Sentri (black) coating.
Dekfast 12 Hex	.209 dia. x 8" max. length; 1/4" hex head.	PA 114 PA 117	Hex head modified BP type, milled slot, self-drilling point, 13 threads per inch, carbon steel fastener for use on steel and wood decks. With Sentri (black) coating.
Dekfast 14	.232" dia. x 12" max. length; #3 phillips modified truss head.	PA 114 PA 117	Truss head modified BP type, self-drilling point, 13 threads per inch, carbon steel fastener for use on steel, wood or concrete decks. With Sentri (black) coating.
Dekfast 15	.258" dia. x 26" max. length; #3 Phillips modified truss head.	PA 114 PA 117	Truss Head, modified BP type, self-drilling point, 13 threads per inch, carbon fastener for use on concrete, steel and wood decks. With Sentri (black) coating.
Omega Stainless Steel	# 14 x 8" max. length; #3 phillips head	PA 114 PA 117	Phillips head, 300 series (18-8) stainless steel, self-drilling point for use on steel and wood decks.
Dekfast DekSpike	.250" diam x 16" max. one piece hammer-in concrete anchor with .500" mushroom head	PA 114 PA 117	Mushroom head hammer driven anchor for attachment of insulation, membrane and woodblocking



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 Roofing Product Control Examiner

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Dekfast DekLite	11/16" glass reinforced nylon threaded fastener with 1/4" square drive, max. length of 10"	PA 114 PA 117	Non penetrating fastener for use in gypsum, lightweight concrete and structural cement fiber decks in combination with hex plate or proprietary membrane plates
Dekfast Lock Plate	2 7/8" hex	PA 114 PA 117	Polypropylene hexagon stress plate with a recessed hole for use with #14 Dekfast screws and the Omega fastener.
Dekfast Hex Plate	2 7/8" x 3 1/4" x .018"	PA 114 PA 117	Steel, galvalume AZ50 stress plate for use with all Dekfast fasteners.
Dekfast Seam Plate	2" x 20 ga. & 22 ga.	PA 114 PA 117	Steel, galvalume AZ50 seam plate for use in single ply systems.
Dekfast Barbed Seam Plate	2" x 20 ga. & 22 ga.	PA 114 PA 117	Steel, galvalume AZ50 seam plate for use in single ply system
Dekfast DekLite Hex Plate	2 7/8" x 3 1/4" x .018"	PA 114 PA 117	Steel, Galvalume AZ50 stress plate for use with DekLite fastener



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Factory Mutual Research Corporation	Pull Through Data	J.I. IR5A7.AM	5/06/91
	Withdrawal Resistance Corrosion Resistance	J.I. 0Y0A8.AM	08/17/95
ATEC ASSOCIATES, INC.	Pull Out / Shear Data	02108/4831	09/28/90
Dynatech Engineering Corporation	Pull Out/Pull Over Data	6.94.2	6/04/94
Trinity Engineering, Inc.	Dynamic Pull Through PA 117(B)	Report #4590.10.95-1	10/01/95
Exterior Research & Design, LLC.	PA 117(A), (B) & (C)	Report #4593.12.97-1	12/15/97



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TYPICAL PROPERTIES

Note: A 2 to 1 margin of safety has been applied to test results producing the design values noted herein.

Shear Load Performance	
Fastener	Shear Load Resistance
Dekfast 14-13	412 lbf
Dekfast 15-13	456 lbf

Withdrawal Resistance Performance - PA 117(A) - Static Load			
Fastener	Deck Type	min. Penetration / Embedment	Static Withdrawal Resistance (lbf)
Dekfast 12 (or 12 Hex)	min. 19/32" plywood	1/2"	204.5
	min. 22 ga. grade A steel	1/2"	213.5
Dekfast 14	min. 19/32" plywood	1/2"	222.0
	min. 22 ga. grade A steel	1/2"	261.0
	min. 3,000 psi concrete	1"	301.5
Dekfast 15	min. 19/32" plywood	1/2"	304.0
	min. 22 ga. grade A steel	1/2"	273.0
	min. 3,000 psi concrete	1"	331.5
Dekspike	min. 3,000 concrete	1"	355.0
Deklite	cementitious wood fiber	1.5"	123.0
	poured gypsum	1.5"	155.9
	Min. 200 psi cellular lwc (28 day cure)	1.5"	110.8
	Min. 200 psi aggregate lwc (28 day cure)	1.5"	188.1



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TYPICAL PROPERTIES (CONTINUED)

Withdrawal Resistance Performance - PA 117(A) – Pulsating Load			
Fastener	Deck Type	min. Penetration / Embedment	Static Withdrawal Resistance (lbf)
Dekfast 12 (or 12 Hex)	min. 19/32" plywood	1/2"	163.0
	min. 22 ga. grade A steel	1/2"	169.8
Dekfast 14	min. 19/32" plywood	1/2"	187.2
	min. 22 ga. grade A steel	1/2"	163.9
	min. 3,000 psi concrete	1"	285.0
Dekfast 15	min. 19/32" plywood	1/2"	228.7
	min. 22 ga. grade A steel	1/2"	179.5
	min. 3,000 psi concrete	1"	302.6
Dekspike	min. 3,000 concrete	1"	322.7
Deklite	cementitious wood fiber	1.5"	112.9
	poured gypsum	1.5"	125.7
	Min. 200 psi cellular lwc (28 day cure)	1.5"	89.5
	Min. 200 psi aggregate lwc (28 day cure)	1.5"	150.8



TYPICAL PROPERTIES (CONTINUED)

Base Sheet Pull-Through Performance, Dekfast Hex Plate, PA 117(B)			
Base Sheet Manufacturer	Base Sheet	Dynamic Pull Through Value (lbf)	
Generic	ASTM #30	89	
Generic	ASTM #43	115	
Allied Signal	Black Armor Glass Base	118	
Black Warrior	Arrowglass Base	105	
Celotex Corporation	Hydrostop	240	
	Vaporbar GB	127	
The Garland Company	HPR Glasfelt	139	
GAF Materials Corporation	GAFGLAS #75	159	
GS Roofing Products Company, Inc.	GlasBase	134	
	Poly SMS	257	
Koppers Industries	Glass Fiber Base Sheet	136	
	Organic Base Sheet	193	
Malarkey Roofing Company	#501 Premium I	156	
	#602 Arctic Shield	170	
	#603 Superbase	210	
	#605 Panoply	317	
Johns Manville Corporation	NBS G-2 Base	123	
	Nordstar Base	214	
	Glass Ply Premier	167	
	Dynabase	209	
	Glasbase	157	
	Ventsulation	147	
Siplast	Parabase	122	
	Parabase Plus	176	
SOPREMA, Inc.	Sopra-G	161	
	Elastophene 180	253	
	Sopralene 180	253	
Tamko Roofing Products, Inc.	Glass-Base	173	
	Base-N-Ply	201	
	Versa Base	235	
	Type 43 Base Sheet	188	
Tremco	BURmastic Glass Ply	156	
	BURmastic Composite Ply	331	
U.S. Intec, Inc.	Ultra Base	157	
	Modified Base	281	
W.P. Hickman Systems, Inc.	Multi Ply	197	
	Performance Ply	285	
	Multi-Ply Glass CL	294	



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Base Sheet Pull-Through Performance, Dekfast Hex Plate, PA 117(B)		
Base Sheet Manufacturer	Base Sheet	Dynamic Pull Through Value (lbf)

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

Membrane Pull-Through Performance, PA 117(B)		
Stress Plate	Membrane	Dynamic Pull Through Value (lbf)
Tri-Lock	Carlisle Sure Seal	148.2
	Centimark HyPlus	162.9
	GenFlex RM	187.3
	HPG SR-50	213.0
	RPM HyShield	159.3
	Seal-Dry 3000	203.9
Round Steel Plate	Carlisle Sure Seal	120.2
	Firestone Rubbergard	151.5
	GenFlex II	140.7
Barbed Plate	Centimark HyPlus	178.9
	Firestone UltraPly 78+	189.8
	GenFlex RM	238.6
	HPG SR-50	244.0
	RPM HyShield	185.9
	Seal-Dry 3000	255.6



APPROVED APPLICATIONS

TRADENAME: Dekfast 12

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible Plate(s): Lock Plate or Hex Plate (insulation only), 2" round barbed seam plate, 2" round seam plate and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Product Control Notice of Acceptance.

Generic Insulation Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite as listed in 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: 18-22 ga. steel, wood, min. ¹⁹/₃₂" plywood or wood plank.

TRADENAME: Dekfast 12 Hex

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible Plate(s): Hex Plate (insulation only) and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Product Control Notice of Acceptance..

Generic Insulation Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: 18-22 ga. steel, wood, min. ¹⁹/₃₂" plywood or wood plank.

TRADENAME: Dekfast 14

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible Plate(s): Lock Plate or Hex Plate (insulation only), 2" round barbed seam plate, 2" round seam plate and proprietary seam and fastening assembly plates for membrane and component attachment listed in the specific Roof Assembly, Product Control Notice of Acceptance.



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Generic Insulation

Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: 18-22 ga. steel, wood, min. $19/32$ " plywood or wood plank, 2500 psi concrete or concrete plank.

TRADENAME: **Dekfast 15 (Heavy)**

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible

Plate(s): Lock Plate or Hex Plate (insulation only), 2" round barbed seam plate, 2" round seam plate and proprietary seam and fastening assembly plates for membrane and component attachment listed in the specific Roof Assembly, Product Control Notice of Acceptance.

Generic Insulation

Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: 18-22 ga. steel, wood, min. $19/32$ " plywood or wood plank, 2500 psi concrete or concrete plank.

TRADENAME: **Omega Stainless Steel**

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible

Plate(s): Lock Plate or Hex Plate and proprietary seam and fastening assembly plates for membrane and component attachment listed in the specific Roof Assembly, Product Control Notice of Acceptance.

Generic Insulation

Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: 18-22 ga. steel, wood, min. $19/32$ " plywood or wood plank, 2500 psi concrete or concrete plank.


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TRADENAME: DekSpike®

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible Plate(s): Lock Plate or Hex Plate and proprietary seam and fastening assembly plates for membrane and component attachment listed in the specific Roof Assembly, Product Control Notice of Acceptance.

Generic Insulation Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: Structural concrete, 2500 psi and greater, and precast concrete plank.

.TRADENAME: DekLite™

System Type: Built-up, Modified Bitumen & Single Ply Roof Assemblies

Compatible Plate(s): Hex Plate for use with DekLite only (insulation only), 2" round barbed seam plate, 2" round seam plate for use with DekLite only for membrane and component attachment listed in the specific Roof Assembly, Product Control Notice of Acceptance.

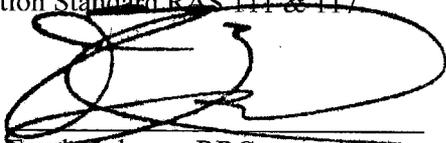
Generic Insulation Types: Polyisocyanurate, Fiberglass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite.

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

Deck: poured gypsum and gypsum plank; cementitious woodfiber and lightweight concrete

GENERAL LIMITATIONS

- 1 Refer to Roof Systems Notices of Acceptance for use, density and attachment patterns.
- 2 Application recommendations are noted in Roofing Application Standard RAS 111 & 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 12.

END OF THIS ACCEPTANCE



Frank Zuloaga, RRC
Roofing Product Control Examiner