



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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NOTICE OF ACCEPTANCE (NOA)

Altenloh, Brinck & Co. U.S., Inc.
02105 Williams County Road 12-C
Bryan, Ohio 43506

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (in Miami-Dade County) and/or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Trufast Roofing Fastener Assemblies

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA #13-1106.02 and consists of pages 1 through 20.
The submitted documentation was reviewed by Gaspar J Rodriguez.



NOA No 14-1117.08
Expiration Date: 04/17/18
Approval Date: 12/03/15
Page 1 of 20

ROOFING COMPONENT APPROVAL

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

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

FASTENERS: *Manufactured at Location #1*

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Trufast #14 HD Fastener	#14 x 12" max. length	TAS 114 TAS 117	Carbon steel screw with #3 phillips drive, modified truss head for use in steel, wood or concrete decks. TruKote epoxy coating.
Trufast #15 EHD Fastener	#15 x 24" max. length	TAS 114 TAS 117	Carbon steel screw with #3 phillips drive, modified truss head for use in steel, wood or concrete decks. TruKote epoxy coating.
Trufast #12 DP Fastener	#12 x 8" max. length	TAS 114 TAS 117	Carbon steel screw with #3 phillips drive, modified truss head for use in steel or wood decks. TruKote epoxy coating.
Trufast #12 DPH Fastener	#12 x 8" max. length	TAS 114 TAS 117	Carbon steel screw with 1/4" hex washer head for use in steel or wood decks. TruKote epoxy coating.
Trufast #21 SHD Fastener	#21 x 8" max. length	TAS 114 TAS 117	Carbon steel screw with #3 phillips drive, modified truss head for use in steel decks. TruKote epoxy coating.
Trufast #12 Purlin Fastener	#12 x 8-3/4" max. length	TAS 114 TAS 117	Carbon steel screw with #3 square drive, modified truss head and long pilot-point for use in min. 18 ga. steel purlin. TruKote epoxy coating.
Trufast TL Fastener	0.687" thread dia. x 14" max. length. To be used in combination with Trufast TL Insulation or Seam plate.	TAS 114 TAS 117	Glass reinforced nylon fastener with #4 square drive on 1" diameter head. For use in gypsum and cementitious wood fiber decks.
Trufast #14 Stainless Steel HD Fastener	#14 x 12" max. length	TAS 114 TAS 117	400 series stainless steel screw with #3 phillips drive, modified truss head for use in steel, wood and concrete decks.
Trufast Fluted Concrete Nail	.212" dia. x 12" max. length	TAS 114 TAS 117	Carbon steel nail with pan head and spiral shank for use in concrete decks. TruKote epoxy coating.
Trufast SIP TP Fastener	#14 x 18" max. length	TAS 114 TAS 117	Carbon steel screw with T-30 6 lobe drive, large pancake head for use in wood decks. TruKote epoxy coating.
Trufast SIP LD Fastener	#14 x 18" max. length	TAS 114 TAS 117	Carbon steel screw with T-30 6 lobe drive, large pancake head for use in steel, wood or concrete decks. TruKote epoxy coating.
Trufast SIP HD Fastener	.212" shank dia x 13-3/4" max. length	TAS 114 TAS 117	Carbon steel screw with T-30 6 lobe drive, large pancake head for use in min. 16 ga. steel purlin. TruKote epoxy coating.

FASTENERS: *Manufactured at Location #2*

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Trufast FM-290 Base Sheet Fastener	2.46" wide 3.59" long 1.7" tall	TAS 114 TAS 117	Two piece factory assembled base ply fastener/plate unit with a pair of dual gripping shanks and integral rib reinforced Galvalume stress distribution plate formed from 0.013" thick G-90 galvanized steel or cold rolled steel that is coated with a black urethane coating. For use in lightweight insulating concrete decks and various poured gypsum decks
Trufast FM-75 Base Sheet Fastener	2.7" head 1.2" long	TAS 114 TAS 117	Two piece factory assembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013" thick G-90 galvanized steel or cold rolled steel that is coated with a black urethane coating. For use in lightweight insulating concrete, NVS concrete and various poured gypsum decks.
Trufast FM-90 Base Sheet Fastener	2.7" head 1.7" long	TAS 114 TAS 117	Two piece factory assembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013" thick G-90 galvanized steel or cold rolled steel that is coated with black urethane coating. For use in lightweight insulating concrete decks and various poured gypsum decks
Trufast Insuldeck Loc-Nail Base Sheet Fastener	2.7" head 1-7/8" long	TAS 114 TAS 117	Two piece factory assembled fastener/plate unit for use in cementitious wood fiber decks. Fastener formed from .024" thick AZ-55 Galvalume steel. 2.7" diameter disk formed from .013" thick AZ-55 Galvalume steel.
Trufast Twin Loc-Nail Assembled Fastener	2.7" head 1.4" long, 1.8" long, 2.8" long, 3.8" long, 4.8" long	TAS 114 TAS 117	Three piece factory assembled fastener/plate unit. Tube formed from .030" thick AZ-55 Galvalume or G-90 galvanized steel. A 2.7" diameter disk formed from .018" AZ-55 Galvalume steel is factory assembled to each fastener. Locking staple formed from .080" stainless steel or coated steel is factory assembled into tube. For base sheet and insulation attachment to new or existing cementitious wood fiber, poured gypsum and lightweight insulating concrete decks.
Trufast Twin Loc-Nail Batten Fastener	1.4" long, 1.8" long, 2.8" long, 3.8" long, 4.8" long	TAS 114 TAS 117	Two piece factory assembled fastener. Tube formed from .030" thick AZ-55 Galvalume or G-90 galvanized steel. Locking staple formed from .080" stainless steel or coated steel is factory assembled into tube. For base sheet attachment to new or existing cementitious wood fiber, poured gypsum and lightweight insulating concrete decks. Used with Trufast Twin Loc Coiled Batten Bar.
Trufast Assembled Do-All Loc-Nail	.435" head x 1.4" long .435" head x 1.75" long		One-piece stainless steel fasteners for shingle attachment to gypsum board, gypsum plank, plywood, wood, and composite decks.



PLATES: *Manufactured at Location #1*

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Trufast 3" Metal Insulation Plate	3" Round with reinforcing ribs	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 3" Recessed Metal Insulation Plate	3" Round with reinforcing ribs and recessed center hole.	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2" Barbed Metal Seam Plate	2" Round with reinforcing ribs and barbs	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2" Metal Seam Plate	2" Round with reinforcing ribs	TAS 114	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2.4" Barbed Metal Seam Plate	2.4" Round with reinforcing ribs and barbs	TAS 114	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	2.4" Round with reinforcing ribs and barbs	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2.4" Scoop Seam Plate	2.4" Round with reinforcing ribs and barbs	TAS 114	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2-3/4" Barbed Metal Seam Plate (EHD)	2.75" Round with reinforcing ribs and barbs	TAS 114	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 2-3/4" Barbed Metal Seam Plate (SHD)	2.75" Round with reinforcing ribs and barbs	TAS 114	Galvalume steel stress plate for use with Trufast fasteners.
Trufast 3" TL Insulation Plate	3" Round with reinforcing ribs.	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast TL Fasteners.
Trufast 2" TL Seam Plate	2" Round with reinforcing ribs and barbs	TAS 114 TAS 117	Galvalume steel stress plate for use with Trufast TL Fasteners.
Trufast Flat Batten Bar	18 ga. x 1" wide x 10' long with holes 6" or 12" o.c.	TAS 114	Galvalume batten bar for use with approved Trufast fasteners.
Trufast Recessed Batten Bar	18 ga. x 1" wide x 10' long with recessed holes 6" or 12" o.c.	TAS 114	Galvalume batten bar for use with approved Trufast fasteners.



PLATES: *Manufactured at Location #2*

Trufast Tin Tag	1.625" round stress plate with or without .235" diameter central hole		Steel bearing stress plate, coated with AZ-55 Galvalume or G-90 galvanized for use with roofing nails or Do-All Loc-Nails (w/.235" central hole) to attach underlayment or base sheet.
Trufast Twin Loc Coiled Batten Bar	1" wide x 0.040" thick x 100' long Galvalume (comes with barbs or no barbs surrounding the hole).	TAS 114 TAS 117	Batten Bar for mechanical attachment of membrane.
Trufast Low Profiled Coiled Batten Bar	1" wide x .040" thick x 100' long Galvalume (comes with barbs or no barbs surrounding the hole)	TAS 114 TAS 117	Batten Bar for the mechanical attachment of membrane.
Trufast Deep Well Coiled Batten Bar	1" wide x .040" thick x 100' long Galvalume (comes with barbs or no barbs surrounding the hole)	TAS 114 TAS 117	Batten Bar for the mechanical attachment of membrane.

PRE-ASSEMBLED SYSTEMS: *Manufactured at Location #1*

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Trufast DP Pre-Assembled Insulation Plate	See components above	TAS 114 TAS 117	Preassembled Trufast #12 DP fastener with Trufast 3" Metal Insulation Plates.

MANUFACTURING LOCATIONS:

1. Bryan, OH.
2. Bristol, RI

EVIDENCE SUBMITTED:

<u>Test Agency/Identifier</u>	<u>Name</u>	<u>Report</u>	<u>Date</u>
Factory Mutual Research Corporation	1994 FMRC APPROVAL GUIDE	18-134	1/94
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 1G1A6.AM	3/26/82
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 1H2A0.AM	5/26/83
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 0N0A7.AM	5/9/86
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 0J9A1.AM	7/11/85
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 0N0A8.AM	10/7/86
Factory Mutual Research Corporation	Corrosion Resistance	J.I. 0P0Q8.AM	3/9/89



Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 0V7A4.AM	6/10/92
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I. 1W7A7.AM	3/17/93
Factory Mutual Research Corporation	Pull Out/Shear Data	J.I.# 1Q2A2.AM	10/27/89
Exterior Research & Design, LLC.	TAS 117 (A), (B) & (C)	#4712.02.98-1	12/15/98
Factory Mutual Research Corporation	FM 4470	3040205	06/08/10
Trinity ERD	TAS 117 (A), (B) & (C)	2011.A35880.04.12-R1	04/03/12
	TAS 117(A) & (B)	#EO8950.04.08	04/17/08
	TAS 117 (A & B)	E41800.10.12	10/18/12
Factory Mutual Research Corporation	Wind Uplift	J.I. 0R0Q1.AM	03/22/91
	Wind Uplift	J.I. 1V1A9.AM	07/12/91
	Standard 4470	J.I. 0V8A3.AM	11/13/91
	Standard 4470	J.I. 1V9A8.AM	02/25/92
	Wind Uplift	J.I. 0W2A0.AM	03/19/92
	Wind Uplift	J.I. 1W5A2.AM	10/05/92
	Wind Uplift	J.I. 0W4A1.AM	01/04/93
	Corrosion Resistance	J.I. 0W4A1.AM	01/07/93
	Testing of Loc-Nails		
	Standard 4470	J.I. 3W3A5.AM	01/27/94
	Corrosion Resistance	3031797	05/19/08
Trinity Engineering, Inc.	Dynamic Pull Through TAS 117(B)	#4670.10.95-1	10/01/95
Exterior Research & Design, LLC.	TAS 117(A), (B) & (C)	#4670.07.97-1	07/20/97
PRI Construction Materials Technologies	TAS 114	ESP-001-02-01	01/23/12 02/20/12



TYPICAL PROPERTIES:

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

Withdrawal Resistance Performance - TAS 117(A) - Static Load			
<u>Fastener</u>	<u>Deck Type</u>	<u>min. Penetration / Embedment</u>	<u>Static Withdrawal Resistance (lbf)</u>
Trufast #12 DP Fastener, Trufast #12 DPH Fastener	Min. 19/32" plywood	3/4"	278
	Min. 22 ga., 50ksi steel	3/4"	232
Trufast #14 HD Fastener	Min. 19/32" plywood	3/4"	273
	Min. 22 ga., 50ksi steel	3/4"	261
	2,500 – 3,000 psi concrete	1"	297
Trufast #14 Stainless Steel HD Fastener	Min. 22 ga., 50ksi steel	3/4"	264
	2,500 – 3,000 psi concrete	1"	281
Trufast #15 EHD Fastener	Min. 19/32" plywood	3/4"	314
	Min. 22 ga., 50ksi steel	3/4"	353
	2,500 – 3,000 psi concrete	1"	417
Trufast #21 SHD Fastener	Min. 22 ga., 50ksi steel	3/4"	435
Trufast #12 Purlin Fastener	Structural Steel (1/8")	1"	987
	Structural Steel (1/4")	1"	1877
Trufast Fluted Concrete Nail	2,500 – 3,000 psi concrete	1"	152
Trufast SIP TP Fastener	Min. 19/32" plywood	3/4"	256
Trufast SIP LD Fastener	Min. 19/32" plywood	3/4"	270
	Min. 22 ga., 50ksi steel	3/4"	245
	2,500 – 3,000 psi concrete	1"	423
Trufast SIP HD Fastener	Structural Steel (1/8")	1"	1021
	Structural Steel (1/4")	1"	2660
Trufast TL Fastener	Tectum	1 1/2"	253
	Poured Gypsum	2"	200

Withdrawal Resistance Performance - TAS 117(A) - Static Load			
<u>Fastener</u>	<u>Deck Type</u>	<u>Static Withdrawal Resistance (lbf)</u>	
Trufast FM-290	Min. 200 psi cellular Lightweight concrete	3 day cure 44.0	28 day cure 82.0
Trufast FM-75	Poured gypsum	30.0	
Trufast FM-90	Min. 200 psi cellular Lightweight concrete	3 day cure 32.1	28 day cure 53.5
	Min. 200 psi aggregate lightweight concrete	3 day cure 39.9	28 day cure 77.3
Trufast Insuldeck Loc-Nail	Cementitious wood fiber	31.8	
Trufast Twin Loc-Nail	Poured gypsum	131.35	
Trufast Twin Loc-Nail	Cementitious wood fiber	176.2	



Withdrawal Resistance Performance - TAS 117(A) - Pulsating Load			
<u>Fastener</u>	<u>Deck Type</u>	<u>min. Penetration / Embedment</u>	<u>Pulsating Load (lbf)</u>
Trufast #12 DP Fastener, Trufast #12 DPH Fastener	Min. 19/32" plywood	3/4"	220
	Min. 22 ga., 50ksi steel	3/4"	127
Trufast #14 HD Fastener	Min. 19/32" plywood	3/4"	165
	Min. 22 ga., 50ksi steel	3/4"	156
	2,500 – 3,000 psi concrete	1"	263
Trufast #14 Stainless Steel HD Fastener	Min. 22 ga., 50ksi steel	3/4"	150
	2,500 – 3,000 psi concrete	1"	271
Trufast #15 EHD Fastener	Min. 19/32" plywood	3/4"	252
	Min. 22 ga., 50ksi steel	3/4"	239
	2,500 – 3,000 psi concrete	1"	325
Trufast #21 SHD Fastener	Min. 22 ga., 50ksi steel	3/4"	370
Trufast #12 Purlin Fastener	Structural Steel (1/8")	1"	969
	Structural Steel (1/4")	1"	1750
Trufast Fluted Concrete Nail	2,500 – 3,000 psi concrete	1"	150
Trufast SIP TP Fastener	Min. 19/32" plywood	3/4"	153
Trufast SIP LD Fastener	Min. 19/32" plywood	3/4"	162
	Min. 22 ga., 50ksi steel	3/4"	147
	2,500 – 3,000 psi concrete	1"	404
Trufast SIP HD Fastener	Structural Steel (1/8")	1"	1020
	Structural Steel (1/4")	1"	2660
Trufast TL Fastener	Cementitious Wood Fiber	1.5"	192
	Poured Gypsum	2"	160

Withdrawal Resistance Performance - TAS 117(A) - Pulsating Load		
<u>Fastener</u>	<u>Deck Type</u>	<u>Pulsating Load (lbf)</u>
Trufast FM-290	Min. 200 psi cellular lightweight concrete	28 day cure - 65
Trufast FM-75	Poured gypsum	25.8
Trufast FM-90	Min. 200 psi cellular lightweight concrete	28 day cure – 42.9
	Min. 200 psi aggregate lightweight concrete	28 day cure – 66.3
Trufast Insuldeck Loc-Nail	Cementitious wood fiber	20.8
Trufast Twin Loc-Nail	Poured gypsum	98
Trufast Twin Loc-Nail	Cementitious wood fiber	105.0



**Base Sheet Rupture Performance - TAS 117(B)
Trufast 3" Metal Insulation Plate & Trufast 3" Recessed Metal Insulation Plate**

<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
Generic	ASTM D 226, Type II	112.0
CertainTeed	Glasbase Base Sheet	77.5
	Flexiglas Base Sheet	126.5
	All Weather/ Empire Base Sheet	107.5
	Flintlastic 20 Base	151.5
	Flintlastic Poly SMS Base	186.0
	Yosemite Venting Base Sheet	124.0
	Flintlastic SA Nailbase	139.0
Firestone	MB Base M	101.0
	Venting Base	113.5
	SBS Base	135.0
GAF	GAFGLAS #75 Base Sheet	92.0
	GAFGLAS #80 Ultima Base Sheet	76.0
	GAFGLAS Stratavent Eliminator (nailable)	77.5
	FlexPly 6	104.5
	Liberty MA Mechanically Attached Base	150.0
Garland	HPR Glasbase	102.0
	HPR Premium Glasbase	112.0
	HPR Tri-Base Plus	231.5
Johns Manville	PermaPly 28	92.5
	Ventsulation	129.0
	GlasPly Premier	108.0
	DynaBase	133.0
	JM APP Base	104.0
Derbigum	PRS Glass Base	114.0
	PRS Modified Base Sheet	115.0
	PRS Vented Base	101.0
	Derbibase	120.5
	Derbibase Ultra	116.0
Siplast	Parabase	125.5
	Parabase Plus	127.0
Soprema	Sopra-G	103.5
	Modified Sopra-G	108.0
	Soprabase	190.0
Tamko	Glass-Base	92.5
	Vapor-Chan	121.0
US Ply	USP Base	115.0
	USP NVB	101.0
	DuraFlex 30 SBS Base	100.0
	DuraFlex 60 SBS Base	165.0
	DuraFlex SBS Polybase	184.0



Base Sheet Rupture Performance - TAS 117(B) Trufast 2" Barbed Metal Seam Plate		
<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
CertainTeed	Flintlastic Poly SMS Base Sheet	165.0
Johns Manville	DynaLastic 180 S	250.0
Soprema	Soprafix [S]	257.5

Base Sheet Rupture Performance - TAS 117(B) Trufast 2.4" Barbed Metal Seam Plate, Trufast 2.4" Barbed Metal Stress Plate (14 Barb), Trufast 2.4" Scoop Seam Plate, Trufast 2-3/4" Barbed Metal Seam Plate (EHD) & Trufast 2-3/4" Barbed Metal Seam Plate (SHD)		
<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
CertainTeed	Flintlastic Poly SMS Base Sheet	197.0
Johns Manville	DynaLastic 180 S	326.0
Soprema	Soprafix [S]	358.0

Base Sheet Rupture Performance - TAS 117(B) Trufast 3" TL Insulation Plate		
<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
GAF	GAFGLAS #80 Ultima Base Sheet	106.0
Firestone	Venting Base	209.0
Garland	HPR Tri-Base Plus	248.0

Base Sheet Rupture Performance - TAS 117(B) Trufast 2" TL Seam Plate		
<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
Duro-Last	Duro-Last	126.5

Base Sheet Rupture Performance, TAS 117(B): 2.7" Head Twin Loc-Nail					
<u>Manuf.</u>	<u>Base Sheet</u>	<u>Rupture Value (lbs.)</u>	<u>Manuf.</u>	<u>Base Sheet</u>	<u>Rupture Value (lbs.)</u>
Honeywell	Black Armor base Sheet	109	Johns Manville	Dynabase	151
Bitec	Beta Base	120	Johns Manville	Vestulation	114
CertainTeed	Glasbase	90	Johns Manville	Perma Ply-28	138
CertainTeed	Flex-I-Glas Base	120	Siplast	Parabase	109
CertainTeed	Flex-I-Glas All Weather Empire Base	125	Siplast	Parabase Plus	140
Firestone	MB Base	128	Soprema	Sopra-G	123
GAF	GAFGLAS Stratavent	119	Soprema	Modified Sopra-G	103
GAF	GAFGLAS Stratavent perforated	97	Tamko	Glass-Base	117
GAF	GAFGLAS #75	117	Tamko	Vapor-Chan	158
WP Hickman	Multiply glass	133	Tamko	Base-N-Ply	103
WP Hickman	Multiply glass CL	191			



**Base Sheet Rupture Performance, TAS 117(B):
2.5" x 3.6" Plate -FM-290**

<u>Manuf.</u>	<u>Base Sheet</u>	<u>Rupture Value (lbf)</u>	<u>Manuf.</u>	<u>Base Sheet</u>	<u>Rupture Value (lbf)</u>
Certainteed	Glassbase	128	Polyglass	Elastobase V	156
	Flex-I-Glas Base	134		PolyProtector UDL	97
	PolySMS Base	186		Elastobase V (poly surface)	88
	Flintlastic SA Nailbase	78	PRS	Derbi Base	130
Firestone	SBS Base Sheet	163	Siplast	Parabase	147
	APP 160	182	Soprema	Modified Sopra G	127
	SBS Glass Torch Base	128		Soprabase	117
	SBS Poly Torch Base	173	Tamko	Glass-Base	133
GAF	GAFGLAS #75	131		Vapor Chan	136
	GAFGLAS Stratavent Eliminator	131	Tarco	Easy Base	93
	GAFGLAS #80 Ultima	99	Tremco	BURMastic Glass Ply	142
	Liberty MA Base	82		Vapor Chan	231
Garland	HPR Glas Base	140	US Ply	USP Base	144
	HPR Tri Base Plus	226		Duraflex 30 SBS Base	132
Johns Manville	Permaply #28	137		USP NVB	140
	Ventsulation	124	WP Hickman	Multi-Ply Glass	146
	Dynabase	153		Multi-Ply Glass CL	212
				Performance Ply	191
				Pika Ply HI-TEC 60	230



**Base Sheet Rupture Performance, TAS 117(B):
2.7" FM-30 Plate (FM-75 or FM-90) or Insuldeck Loc-Nail**

Manuf.	Base Sheet	Rupture Value (lbf)	Manuf.	Base Sheet	Rupture Value (lbf)
Honeywell	Glass Fiber Base Sheet	84	Johns Manville	Glasbase	103
	Vented Base Sheet	85		Dynabase	104
Celotex	Channel Vent GB	95		Ventsulation	109
	Vaporbar GB	92	Siplast	Parabase	101
	Hydrostop	102		Parabase Plus	100
Firestone	MB Base	88	Soprema	Sopra-G	103
GAF	GAFGLAS #75	103		Elastophene 180	107
	Stratavent	89		Sopralene 180	115
CertainTeed	Flex-I-Glas Base	106	Tamko	Nail Fast	99
	PolySMS	111		Versa Base	106
Koppers	Glass Fiber Base	108	Tremco	BURmastic Glass Ply	114
	Organic Base	94		BURmastic Composite Ply	114
Malarkey	#501	110	U.S. Intec	Ultra Base	95.0
	#602	107		Flex Base	111
	#603	114		Modified Base	111
	#605	109		Permavent	117
Nord	NBS G-2 Base	102	W.P Hickman	Multi Ply	112
	Nordstar Base	110		Performance Ply	113
				Pika Ply SS-2	116

Notes:

- 1. The physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and Miami-Dade Protocols and are subject to normal manufacturing variation.**
- 2. A 2 to 1 margin of safety has been applied to test results providing the above noted design values.**



APPROVED APPLICATIONS:

Tradename:	Trufast #12 DP Fastener & Trufast #12 DPH Fastener
System Type A:	Single Ply, Adhered or Mechanically Attached, New or Reroof
Compatible Plate(s):	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. ¹⁹ / ₃₂ " plywood or wood plank
System Type B:	Built-up, Conventional, New or Reroof
Compatible Plate(s):	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. ¹⁹ / ₃₂ " plywood or wood plank
System Type C:	Built-up Roofing, Modified Bitumen, New or Reroof
Compatible Plate(s):	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. ¹⁹ / ₃₂ " plywood or wood plank

Tradename: Trufast #14 HD Fastener & Trufast #15 EHD Fastener

System Type A: **Single Ply, Adhered or Mechanically Attached, New or Reroof**

Compatible Plate(s): Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.

Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.

Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

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

System Type B: **Built-up, Conventional, New or Reroof**

Compatible Plate(s): Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.

Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.

Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

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

System Type C: **Built-up Roofing, Modified Bitumen, New or Reroof**

Compatible Plate(s): Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance

Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.

Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

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



Tradename:	Trufast DP Pre-Assembled Insulation Plate
System Type A: Compatible Plate(s):	Single Ply, Adhered or Mechanically Attached, New or Reroof Trufast 3" Metal Insulation Plates, and Trufast #12 DP Fasteners pre-assembled, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 19/32" plywood or wood plank and min 2500 psi concrete.
System Type B: Compatible Plate(s):	Built-up, Conventional, New or Reroof Trufast 3" Metal Insulation Plates, and Trufast #12 DP Fasteners pre-assembled, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 19/32" plywood or wood plank and min 2500 psi concrete.
System Type C: Compatible Plate(s):	Built-up Roofing, Modified Bitumen, New or Reroof Trufast 3" Metal Insulation Plates, and Trufast #12 DP Fasteners pre-assembled, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types:	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 19/32" plywood or wood plank and min 2500 psi concrete.



Tradename:	Trufast #14 Stainless Steel HD Fastener
System Type A:	Single Ply, Adhered or Mechanically Attached, New or Reroof
Compatible	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Plate(s):	
Generic Insulation	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Types:	
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 1 ⁹ / ₃₂ " plywood, wood plank or min. 2500 psi concrete.
System Type B:	Built-up, Conventional, New or Reroof
Compatible	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Plate(s):	
Generic Insulation	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Types:	
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 1 ⁹ / ₃₂ " plywood, wood plank or min. 2500 psi concrete.
System Type C:	Built-up Roofing, Modified Bitumen, New or Reroof
Compatible	Trufast 3" Metal Insulation Plates and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Plate(s):	
Generic Insulation	Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Types:	
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	18-22 ga. steel, wood, min. 1 ⁹ / ₃₂ " plywood, wood plank or min. 2500 psi concrete.



Tradename:	Trufast TL Fastener
System Type A:	Single Ply, Adhered or Mechanically Attached, New or Reroof
Compatible Plate(s):	Trufast 3” TL Insulation Plate and Trufast 2” TL Seam Plate
Generic Insulation Types:	Polyisocyanurate, Perlite, Fiberglass, Gypsum Board, High Density Wood Fiber, Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	Tectum, gypsum.
System Type B:	Built-up, Conventional, New or Reroof
Compatible Plate(s):	Trufast 3” TL Insulation Plate and Trufast 2” TL Seam Plate
Generic Insulation Types:	Polyisocyanurate, Perlite, Fiberglass, Gypsum Board, High Density Wood Fiber, Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	Tectum, gypsum.
System Type C:	Built-up Roofing, Modified Bitumen, New or Reroof
Compatible Plate(s):	Trufast 3” TL Insulation Plate and Trufast 2” TL Seam Plate
Generic Insulation Types:	Polyisocyanurate, Perlite, Fiberglass, Gypsum Board, High Density Wood Fiber, Composite, Gypsum Cover Boards.
Application:	Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck:	Tectum, gypsum.



Tradename: Trufast #21 SHD Fastener
Compatible Plate(s): Proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: 18-22 ga. steel

Tradename: Trufast #12 Purlin Fastener
Compatible Plate(s): Proprietary seam and insulation fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards
Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: Min. 1/8" Structural Steel

Tradename: Trufast Fluted Concrete Nail
Compatible Plate(s): Proprietary seam and insulation fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types: Polyisocyanurate, Fiber Glass, Perlite, Rockwool, High Density Wood Fiber, Polystyrene, Urethane/Perlite Composite, Gypsum Cover Boards.
Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: Min.2500 psi concrete

Tradename: Trufast SIP TP Fastener
Compatible Plate(s): Proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types: OSB or Plywood coverboards or laminated to XPS, EPS or ISO insulation boards.
Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: Min. ¹⁹/₃₂" plywood or wood plank

Tradename: Trufast SIP LD Fastener
Compatible Plate(s): Proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.
Generic Insulation Types: OSB or Plywood coverboards or laminated to XPS, EPS or ISO insulation boards.
Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: 18-22 ga. steel, min. ¹⁹/₃₂" plywood or wood plank and min.2500 psi concrete.



Tradename: Trufast SIP HD Fastener

Compatible Plate(s): Proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Notice of Acceptance.

Generic Insulation Types: OSB or Plywood coverboards or laminated to XPS, EPS or ISO insulation boards.

Application: Mechanical attachment of roof insulation and/or roof cover. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.

Deck: Min. 1/8" Structural Steel

Trade Name: Trufast FM-290 Base Sheet Fastener

Deck: Approved minimum 200-psi aggregate or cellular lightweight concrete. See lightweight concrete deck Notice of Acceptance for Approved deck systems.

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

Trade Name: Trufast FM-75 Base Sheet Fastener

Deck: Approved NVS lightweight concrete, various poured gypsums, existing gypsum. See lightweight concrete deck Notice of Acceptance for Approved deck systems.

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

Trade Name: Trufast FM-90 Base Sheet Fastener

Deck: Approved minimum 200-psi aggregate or cellular lightweight concrete. See lightweight concrete deck Notice of Acceptance for Approved deck systems.

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

Trade Name: Trufast Insuldeck Loc-Nail Base Sheet Fastener

Deck: Cementitious Wood Fiber.

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

Trade Name: Trufast Twin Loc-Nail Assembled Fastener

Deck: New or sound existing Cementitious Wood Fiber, Poured Gypsum, Lightweight Concrete.

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

Trade Name: Trufast Twin Loc-Nail Batten Fastener

Deck: New or sound existing Cementitious Wood Fiber, Poured Gypsum, Lightweight Concrete.

Compatible Plate(s): Trufast Twin Loc Coiled Batten Bar

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

Trade Name: Trufast Assembled Do-All Loc-Nail

Deck: Gypsum Board, Gypsum Plank, Plywood, Wood, and Composite Decks.

Compatible Plate(s): Tin Tab with .235" central hole.

Application: Shingle attachment (no plate), Base sheet/underlayment attachment (with plate).



Trade Name: Trufast Coiled Low Profile and Deep Well Batten Bars
Deck: Lightweight Insulating Concrete, Cementitious Wood Fiber, Gypsum, Gypsum Board, Gypsum Plank, Plywood, Wood, and Composite Decks.
Insulation Types: Polyisocyanurate, Perlite, Fiberglass, Gypsum Board, High Density Wood Fiber, Composite.
Application: Mechanical attachment of membrane

GENERAL LIMITATIONS:

1. Refer to Roof Assembly Notice 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 TAS 117.
4. Altenloh, Brinck & Co. U.S., Inc., 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.
5. Any modifications to this Notice of Acceptance shall void such approval.
6. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.
7. All approved products listed herein shall be labeled and shall bear the imprint or identifiable marking of the manufacturer's name or logo and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE



NOA No 14-1117.08
Expiration Date: 04/17/18
Approval Date: 12/03/15
Page 20 of 20