



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
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www.miamidade.gov/pera

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation
1361 Alps Road
Wayne, NJ 07470

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 PERA - 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. PERA 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: Drill-Tec™ Roof Fastening Systems

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 renews and revises NOA #10-0125.04 and consists of pages 1 through 13.
The submitted documentation was reviewed by Alex Tigera.



NOA No.: 12-0815.01
Expiration Date: 09/27/17
Approval Date: 09/20/12
Page 1 of 13

ROOFING ASSEMBLY APPROVAL

Category: Roofing
Sub-Category: Roofing Fasteners
Material: Steel

MANUFACTURING LOCATIONS:

1. Itasca, IL.
2. Agawam, MA
3. Thomaston, CT
4. Pittsfield, MA
5. Elk Grove Village, IL

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

FASTENERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ #12 Fastener	#12 x 8" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating.
Drill-Tec™ #14 Fastener	#14 x 24" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, standard thread, pinch point, carbon steel fastener for use in metal, wood or concrete decks. With CR-10 coating.
Drill-Tec™ XHD Fastener	#15 x 14" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, modified buttress thread, pinch point, carbon steel fastener for use in steel, wood, or concrete decks. With CR-10 coating.
Drill-Tec™ #12 Fastener Hex Head	#12 x 8" max. Length, 1/4" hex washer head.	TAS 114 TAS 117	Hex washer head, modified buttress thread pinch point, carbon steel fastener for use in steel or wood decks. With CR-10 coating.
Drill-Tec™ #12 Stainless	#12 x 8" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, modified buttress thread, pinch point, stainless steel fastener for use in steel or wood decks.
Drill-Tec™ Base Sheet Fastener (1.2 in.)	1.125" head x 1.2" length.	TAS 114	G-90 galvanized fastener for base sheet attachment to gypsum decks and on lightweight insulating concrete decks less than 2" thick. With Olympic CR-10 coating.
Drill-Tec™ Base Sheet Fastener (1.7 in.)	1.125" head x 1.75" length.	TAS 114	G-90 galvanized fastener for base sheet attachment to gypsum decks and lightweight insulating concrete decks. With Olympic CR-10 coating.
Drill-Tec™ CD-10	0.214" min. dia. x 12" max. length; wafer head	TAS 114	Carbon steel expansion fastener for use in structural concrete decks. CR-10 coated.
Drill-Tec™ LD Fastener	0.240" to 0.375" x 12" max. length; #3 Phillips flat head	TAS 114	Carbon steel fastener for insulation attachment in gypsum and cementitious wood fiber decks. CR-10 coated.



FASTENERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ Polymer Gyptec Fastener	0.675" Thread dia. x 1" dia. Head x 12" max. length	TAS 114	One piece, glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.
Drill-Tec™ SXHD	#21 x 16" max. length; #3 Phillips head	TAS 114	Truss head, self-drilling, pinch point, high thread fastener for use in wood, steel or concrete decks.
Drill-Tec™ Purlin Fastener	#12 x 8¾" max.	TAS 114	Hex head carbon steel screw, drill point, for use into min 18ga steel purlin.

PLATES:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ 3" Standard Steel Plate	3" round	TAS 114	Round galvalume plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners
Drill-Tec™ 3" Steel Plate	3" round	TAS 114	Round galvalume steel stress plate for use with Drill-Tec fasteners.
Drill-Tec™ AccuTrac Recessed Plate	3" square; .018"-.021" thick.	TAS 114 TAS 117	Galvalume steel plate for use with Drill-Tec™ fasteners.
Drill-Tec™ AccuTrac Flat Plate	3" square; .018" - .021" thick	TAS 114 TAS 117	A2-SS aluminized steel plate for use with Drill-Tec™ #12 Fastener, Drill-Tec™ #14 Fastener and Drill-Tec™ #15 Fastener.
Drill-Tec™ LD Plate	3" round	TAS 114	Round, galvalume plate for use with Drill-Tec™ LD Fasteners.
Drill-Tec™ 2" Gyptec Plate	3" round	TAS 114 TAS 117	AZ-55 galvalume plate for use with the Drill-Tec™ Polymer Gyptec fastener.
Drill-Tec™ 3" Gyptec Plate	3" round	TAS 114 TAS 117	AZ-55 galvalume plate for use with the Drill-Tec™ Polymer Gyptec fastener.
Drill-Tec™ Plastic Plate	3" round	TAS 114	Round high density polypropylene stress plate for use with Drill-Tec™ fasteners.
Drill-Tec™ 2 in. Barbed Plate	2" round	TAS 114	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.
Drill-Tec™ 2-¾" Barbed SXHD Plate	2-¾" round	TAS 114	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.
Drill-Tec™ Rhinobond Plate	3" round	TAS 114	Primer coated plate for use with heat welded TPO membranes.
Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate	3" round	TAS 117	Round, coated galvalume plate (Gold and Black) used for PVC membranes.
Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate	3" round	TAS 117	Round, coated galvalume plate (Gold and Black) used for TPO membranes.

PRE-ASSEMBLED SYSTEMS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ AccuTrac® Fastening System	See components above	TAS 114	AccuTrac® Galvalume plates with approved fasteners
Drill-Tec™ Base Sheet Fastener & Plate (1.2 in.)	1.125" head x 1.2" length.	TAS 114	G-90 galvanized fastener for base sheet attachment to gypsum decks and on lightweight insulating concrete decks less than 2" thick. With CR-10 fluorocarbon coating. With Galvalume plate.
Drill-Tec™ Base Sheet Fastener & Plate (1.7 in.)	1.125" head x 1.75" length.	TAS 114	G-90 galvanized fastener for base sheet attachment to gypsum decks and lightweight insulating concrete decks. With CR-10 fluorocarbon coating. With Galvalume plate.
Drill-Tec™ Extra Heavy Duty ASAP Roofing Fastener – Insulation	See components above	TAS 114	Drill-Tec™ #15 fastener with a Drill-Tec™ 2-3/8 in. Barbed Plate.
Drill-Tec™ ASAP 3P	See components above	TAS 114	Drill-Tec™ #12 fasteners with Drill-Tec™ 3" Plastic Plate.
Drill-Tec™ Heavy Duty ASAP 2S Assembled Screw and 2 in. Steel Plate	See components above	TAS 114	Drill-Tec™ #14 fastener with Drill-Tec™ 2 in. Barbed Plate.
Drill-Tec™ Extra Heavy Duty ASAP Assembled Screw and 2-3/8 in. Steel Plate	See components above	TAS 114	Drill-Tec™ #14 fastener with Drill-Tec™ 2-3/8 in Barbed XHD Plate.
Drill-Tec™ ASAP 3S	See components above	TAS 114	Drill-Tec™ #12 fastener with Drill-Tec™ 3" Standard Steel Plate
Drill-Tec™ Heavy Duty ASAP Roofing Fastener – Assembled with a 3" Metal Plate	See components above	TAS 114	Drill-Tec™ #14 fastener with Drill-Tec™ 3" Metal Plate.
Drill-Tec™ Heavy Duty ASAP Roofing Fastener – Assembled with a 3" Plastic Plate	See components above	TAS 114	Drill-Tec™ #14 fastener with Drill-Tec™ 3" Plastic Plate.



EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>	
Factory Mutual Research Corporation	FM 4470	J.I. 3Z5A4.AM	02/23/96	
	FM 4470	J.I. 1R0A4.AM	04/03/90	
	FM 4470	J.I. 1N5A6.AM	06/22/87	
	FM 4470	J.I. 1T3A3.AM	11/26/91	
	FM 4470	J.I. 1V9A5.AM	09/16/92	
	FM 4470	J.I. 0E6A9.AM	01/22/80	
	FM 4470	J.I. 0G1A9.AM	10/19/82	
	Wind Uplift	J.I. 0T0A5.AM	06/01/91	
	Pull Out/Sheer Data	J.I. 0M3A6.AM	07/31/85	
	Pull Out/Shear Data	J.I. 1T2A6.AM	02/22/93	
	FMRC 4450	J.I. 1Y5A4.AM	07/19/94	
	Tensile/Sheer Data	No. MA 4907 Lab # 2386	01/13/83	
	Pull Out	No. MA 4907 Lab # 9098	04/24/85	
	Wind Uplift	J.I. 0W7A2.AM	09/01/93	
	Wind Uplift	J.I. 1X2A6.AM	08/01/93	
	Wind Uplift	J.I. 2V0A5.AM	02/01/92	
	FM 4470	3031546	03/25/08	
	FM 4470	3026774	01/21/08	
	FM 4470	3040926	11/10/10	
	FM 4450	3032397	02/28/08	
	FM Letter	3036723	06/03/09	
	FM Small Scale Testing	3035599	04/01/09	
	FM 4450	3037608	08/18/10	
	FM 4450	797-03187-267	10/11/07	
	FM 4470	797-06631-267	07/18/11	
	Trinity ERD	TAS 117(A), (B) & (C)	Base Sheet Testing	07/12/94
		PA 117(A), (B) & (C)	#4251.08.96-1	08/01/96
TAS 117(A), (B) & (C)		O8050.04.08-R2	04/04/08	

TYPICAL PHYSICAL PROPERTIES

Concrete Deck

<u>Product</u>	<u>Min. psi</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ #14 Fastener	N/A	Shear Test	ASTM E 488	N/A	1019
		Pull Out Test	TAS 117(A)		783.3
		Pulsating Load			480
Drill-Tec™ #14 Fastener	3,000	Pull Out Test	TAS 117(A)	1"	798.0
		Pulsating Load			578.0
Drill-Tec™ CD-10	3,000	Pulsating Load	TAS 117(A)	1"	410.0

Steel Deck

<u>Product</u>	<u>Deck Thickness</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ #12 Fastener	22 ga.	Pull Out Test	ASTM E 488	N/A	519.0
		Pulsating Load	TAS 117(A)		213.0
Drill-Tec™ #12 Fastener Hex Head	22 ga.	Pull Out Test	ASTM E 488	N/A	519.0
		Pulsating Load	TAS 117(A)		213.0
Drill-Tec™ #12 Stainless	22 ga.	Pull Out Test	ASTM E 488	N/A	519.0
		Pulsating Load	TAS 117(A)		213.0
Drill-Tec™ #14 Fastener	22 ga.	Pull Out Test	ASTM E 488	N/A	415.0
		Pulsating Load	TAS 117(A)		220.0
Drill-Tec™ XHD Fastener	22 ga., grd. A	Pull Out Test	TAS 117(A)	½"	151.5
		Pulsating Load			136.5
Drill-Tec™ SXHD	22 ga.	Pull Out Test	ASTM E 488	N/A	550.0
		Pulsating Load			248.0

Plywood Deck

<u>Product</u>	<u>Deck Thickness</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ #12 Fastener	Min. 19/32"	Pull Out Test	TAS 117(A)	N/A	535.2
		Pulsating Load			238.0
Drill-Tec™ #12 Fastener Hex Head	Min. 19/32"	Pull Out Test	TAS 117(A)	N/A	535.2
		Pulsating Load			238.0
Drill-Tec™ #12 Stainless	Min. 19/32"	Pull Out Test	TAS 117(A)	N/A	535.2
		Pulsating Load			238.0
Drill-Tec™ #14 Fastener	Min. 19/32"	Pull Out Test	TAS 117(A)	N/A	613.6
		Pulsating Load			282.0
		Pulsating Load			300.0
Drill-Tec™ XHD Fastener	Min. 15/32"	Pull Out Test	TAS 117(A)	½"	137.5
		Pulsating Load			133.0
Drill-Tec™ SXHD	Min. 19/32"	Pull Out Test	TAS 117(A)	N/A	581.7
		Pulsating Load			300.0



Cementitious Wood Fiber Decks

<u>Product</u>	<u>Deck</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ Polymer Gyptec Fastener	Any	Pulsating Load	TAS 117(A)	1.5"	106.0
Drill-Tec™ LD Fastener	Any	Pulsating Load	TAS 117(A)	2"	115.5

Gypsum Decks

<u>Product</u>	<u>Deck</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ Base Sheet Fastener & Plate (1.2)	Poured	Pulsating Load	TAS 117(A)	N/A	65.0
		Static Load			68.0
Drill-Tec™ Polymer Gyptec Fastener	Poured	Pulsating Load	TAS 117(A)	1.5"	257.0
Drill-Tec™ LD Fastener	Poured	Pulsating Load	TAS 117(A)	2"	300.0

Lightweight Concrete Deck

<u>Product</u>	<u>Min. psi</u>	<u>Property(s) Tested</u>	<u>Test</u>	<u>Min. Embedment/ Penetration</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ Base Sheet Fastener & Plate (1.2 in.)	200	Pulsating Load	TAS 117(A)	N/A	28 day cure, 48.0
		Static Load			3 day cure, 45.5
					28 day cure, 59.5
Drill-Tec™ Base Sheet Fastener & Plate (1.2 in.)	200	Pulsating Load	TAS 117(A)	N/A	28 day cure, 38.5
		Static Load			3 day cure, 29.5
					28 day cure, 48.5



Base Sheet Rupture Performance – TAS 117(B)

<u>Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>
Drill-Tec™ AccuTrac® Recessed Plate	Tamko	TamGlas	136.0
	Schuller	Glasbase	120.0
	Intec	Ultrabase	134.0
	Malarkey	Malarkey 501	107.0
		Malarkey 601	129.0
		Black Warrior	126.0
	GAF	GAFGLAS® # 75 Base Sheet	137.0
	Celotex	Vaporbar GB	117.0
		Vaporbar	113.0
		GS GlasBase	115.0
Any	ASTM # 30	106.0	
	ASTM # 43	106.0	
Drill-Tec™ LD Plate, Drill-Tec™ 3” Standard Steel Plate and Drill-Tec™ Polymer Gyptec Plate	Honeywell	Glass Fiber Base Sheet	63.0
		Premium Glass Fiber Felt	89.0
		Vented Base Sheet	66.0
	Celotex	Channel Vent GB	59.0
		Vaporbar GB	65.0
	GAF	GAFGLAS® #75 Base Sheet	70.5
		GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet	67.0
		GAFGLAS® Ply 4	62.0
		Ruberoid® SA Base/Ply Sheet	90.0
	Johns Manville	PermaPly 28	71.0
		PermaPly-R	131.5
		Dynabase	84.0
		Glasbase	65.0
		Ventsulation	65.5
		GlasPly Premier	97.5
	Soprema	Sopra-G	64.0
		Modified Sopra-G	60.0
		Sopraglass 100	98.0
		Sopravent	61.5
	GS Roofing	Flex-I-Glas Base	62.5
		PolySMS	125.0
	Siplast	Parabase	93.5
		Parabase Plus	77.5
	Malarkey	#501	53.5
		#601	72.0
	Tamko	Glass-Base	86.5
		Vapor-Chan	73.5



Base Sheet Rupture Performance – TAS 117(B)

<u>Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>	
	Tremco	BURMastic Glass Ply	53.5	
		BURMastic Composite Ply	112.0	
	US Intec	Ultrabase	55.0	
Drill-Tec™ Base Sheet Plate	Honeywell	Glass Fiber Base Sheet	81.0	
		Premium Glass Fiber Felt	95.5	
		Vented Base Sheet	70.0	
	Celotex	Channel Vent GB	82.0	
		Vaporbar GB	83.0	
		Hydrostop	81.0	
	GAF	GAFGLAS® #75 Base Sheet	74.5	
		GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet	80.0	
		GAFGLAS® Ply 4	65.5	
		Ruberoid® SA Base/Ply Sheet	90.0	
	Johns Manville	PermaPly 28	72.5	
		PermaPly-R	91.5	
		Dynabase	85.0	
		Glasbase	63.5	
		Ventsulation	74.0	
		GlasPly Premier	102.0	
	GS Roofing	Flex-I-Glas Base	58.5	
		PolySMS	107.5	
	Siplast	Parabase	82.5	
		Parabase Plus	93.5	
	Soprema	Sopra-G	76.5	
		Modified Sopra-G	64.0	
		Sopraglass 100	87.0	
		Sopravent	88.0	
	Tamko	Glass-Base	65.0	
		Vapor-Chan	76.5	
	Tremco	BURMastic Glass Ply	87.0	
		BURMastic Composite Ply	109.0	
	Drill-Tec™ AccuTrac® Flat Bottom Plate	GAF	GAFGLAS® #75 Base Sheet	176.9
			GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet	197.5
			GAFGLAS® #80 Ultima Base Sheet	212.1
			Liberty SBS MAMechanically Attached Base Sheet	275.4
JM		Permaply #28	200.9	
		Ventsulation	190.2	
		Glastite flexible Base	326.1	



Base Sheet Rupture Performance – TAS 117(B)

<u>Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>
	Tamko	Dynabase	322.9
		APP Base	204.9
		Glass base	198.9
		Versa Base	257.9
		Tam-Glas Premium	189.6
		Vapor Chan	212.9
		Base-n-Ply	207.1
Drill-Tec™ 3” Steel Plate	GAF	GAFGLAS® 75 Base Sheet	173.1
		GAFGLAS® Stratavent® Eliminator™ Nailable Venting Base Sheet	178.6
		GAFGLAS® #80 Ultima Base Sheet	185.3
		Liberty™ SBS MA Mechanically Attached Base Sheet	236.3
	JM	Permaply #28	146.2
		Ventsulation	151.4
		Glastite flexible Base	314.5
		Dynabase	296.6
		APP Base	262.1
	Tamko	Glass base	138.1
		Versa Base	234.9
		Tam-Glas Premium	179.9
		Vapor Chan	199.6
		Base-n-Ply	173.5

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

Single Ply Lap Rupture Performance – TAS 117(B)

<u>Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)</u>
Drill-Tec™ 2 in. Barbed Plate	Seaman	FiberTite	189.5
	JPS	Hi-Tuff	186.5
	BondCote	350 Series	106.5
	Sarnafil	S327	204.5
	GenFlex	GenFlex RM	205.0
	Durolast	Durolast 35 mil	149.5

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.



APPROVED APPLICATIONS:

Tradename:	Drill-Tec™ #12 Fastener, Drill-Tec™ #12 Stainless
Compatible Plate(s):	Drill-Tec™ 3” Standard Steel Plate, Drill-Tec™ 3” Locking Plastic Plate, Drill-Tec™ Plastic Plate and 3” square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof Assembly, Product Control Approval (NOA).
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:	Drill-Tec™ #14 Fastener, Drill-Tec™ XHD Fastener
Compatible Plate(s):	Drill-Tec™ 3” Standard Steel Plate, Drill-Tec™ Rhinobond® Plate, Drill-Tec™ Rhinobond® Tread Safe Plate, Drill-Tec™ 3” Locking Plastic Plate, Drill-Tec™ Plastic Plate and 3” square metal plates; and proprietary seam and fastening assembly plates listed in the specific Roof System Assembly, Product Control Approval (NOA).
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:	Drill-Tec™ #12 Fastener Hex Head
Compatible Plate(s):	Drill-Tec™ 3” Standard Steel Plate, Drill-Tec™ 3” Locking Plastic Plate and 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).
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:	Drill-Tec™ XHD or Drill-Tec™ SXHD
Compatible Plate(s):	Drill-Tec™ 3” Standard Steel Plate, Drill-Tec™ Rhinobond® Plate, Drill-Tec™ Rhinobond® Tread Safe Plate, Drill-Tec™ 3” metal or Drill-Tec™ Plastic Plate, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
Application:	Mechanical attachment of roof insulation and membrane. 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, 2500 psi concrete or concrete plank



Tradename: **Drill-Tec™ CD-10 or Drill-Tec™ Fluted Nail**
Compatible Plate(s): Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 3" metal or Drill-Tec™ Plastic Plate, and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
Application: Mechanical attachment of roof insulation and membrane. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: 2500 psi concrete or concrete plank

Tradename: **Drill-Tec™ LD Fastener**
Compatible Plate(s): 3" Lite-Deck Plate.
Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: Cementitious wood fiber or gypsum

Tradename: **Drill-Tec™ Polymer Gyptec Fastener**
Compatible Plate(s): 3" Steel Plate.
Application: Mechanical attachment of roof insulation. See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: Cementitious wood fiber or gypsum

Tradename: **Drill-Tec™ Purlin Fastener**
Compatible Plate(s): Drill-Tec™ 3" Standard Steel Plate, Drill-Tec™ 2" Barbed Plates, ASAP, Drill-Tec™ Plastic Plate, Standard and proprietary seam and fastening assembly plates listed in the specific Roof Assembly Notice of Acceptance.
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, gypsum

Tradename: **Drill-Tec™ Base Sheet Fastener (1.2 in.)**
Compatible Plate(s): Drill-Tec™ Base Sheet Plate.
Application: See specific Roof Assembly Notice of Acceptance for base sheets and fastener densities.
Decks: Gypsum, NVS or Hybrid lightweight insulating concrete.

Tradename: **Drill-Tec™ Base Sheet Fastener (1.7 in.)**
Compatible Plate(s): Drill-Tec™ Base Sheet Plate.
Application: See specific Roof Assembly Notice of Acceptance for base sheets and fastener densities. Drill-Tec™ Base Sheet Fastener 1.7" may be used in any approved Roof Assembly NOA where the FM-90 Base Ply Fastener or the ITW Buildex Lite Weight Concrete Fastener is referenced. Approved fastening patterns and densities listed in any approved Roof Assembly NOA containing the FM-90 Base Ply Fastener or the ITW Buildex Lite Weight Concrete Fastener shall be acceptable when using Drill-Tec™ Base Sheet Fastener 1.7.
Decks: Aggregate or Cellular lightweight insulating concrete.



GENERAL LIMITATIONS:

1. Drill-Tec™ fasteners are a component part of a Miami-Dade Approved Roof Assembly. These products are approved for use only with those roof assemblies listing these products as an approved component. Refer to an approved Roof Assemblies Notices of Acceptance for use, density and attachment patterns.
2. Only those specific fasteners listed in this approval shall be utilized in Approved Roof Assemblies Notice of Acceptance.
3. Fasteners shall be installed in strict compliance with manufacturer's installation instructions, and in compliance with the requirements set forth in Roofing Application Standard RAS 111, 117 & 137.
4. 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.
5. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117 and/or RAS 137.
6. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. Insulation attachment shall not be acceptable.
7. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.
8. 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.: 12-0815.01
Expiration Date: 09/27/17
Approval Date: 09/20/12
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