



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

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

GAF
1 Campus Drive
Parsippany, NJ 07054

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: 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 NOA renews and revises NOA No. 23-0725.03 and consists of pages 1 through 14.
The submitted documentation was reviewed by Jorge L. Acebo.

09/12/24



NOA No.: 24-0812.09
Expiration Date: 09/27/29
Approval Date: 09/12/24
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ROOFING COMPONENT APPROVAL

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

SCOPE:

This approves Drill-Tec™ Roof Fastening Systems as described in this Notice of Acceptance, designed to comply with the Florida Building Code and the High Velocity Hurricane Zone of the Florida Building Code. The use of this acceptance is limited to roof assemblies where the GAF products listed herein are specifically listed as accepted components.

MANUFACTURING LOCATIONS:

1. Addison, IL.
2. Agawam, MA
3. Thomaston, CT
4. Pittsfield, MA
5. Elk Grove Village, IL
6. Cleveland, OH

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 <i>Manufacturing</i> <i>Location # 1,2</i>	#12 x 8" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, modified buttress thread, carbon steel fastener for use in steel or wood decks. With CR-10 coating. Available with a pinch point or drill point.
Drill-Tec™ #12 Fastener Hex Head <i>Manufacturing</i> <i>Location # 1,2</i>	#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™ CD-10 <i>Manufacturing</i> <i>Location # 2</i>	0.214" min. dia. 12" max. length; wafer head	TAS 114 TAS 117	Carbon steel expansion fastener for use in structural concrete decks. CR-10 coated.
Drill-Tec™ LD Fastener <i>Manufacturing</i> <i>Location # 2</i>	0.240" to 0.375" 12" max. length; #3 Phillips flat head	TAS 114 TAS 117	Carbon steel fastener for insulation attachment in gypsum and cementitious wood fiber decks. CR-10 coated.
Drill-Tec™ Polymer Gyptec Fastener <i>Manufacturing</i> <i>Location # 4</i>	0.675" Thread dia. 1" dia. Head 12" max. length	TAS 117	One piece, glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.
Drill-Tec™ #14 Fastener <i>Manufacturing</i> <i>Location # 2</i>	#14 x 16" max. length #3 Phillips head	TAS 114 TAS 117	Truss head, self-drilling, pinch point, high thread fastener for use in wood, steel or concrete decks.
Drill-Tec™ XHD Fastener <i>Manufacturing</i> <i>Location # 1, 2</i>	#15 x 16" max. length #3 Phillips head	TAS 114 TAS 117	Truss head, self-drilling, drill point, high thread fastener for use in wood or steel decks.



NOA No.: 24-0812.09
Expiration Date: 09/27/29
Approval Date: 09/12/24
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FASTENERS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec SXHD Fastener <i>Manufacturing</i> <i>Location # 1, 2</i>	#21 x 16" max. length #3 Phillips head	TAS 114	Truss head, self-drilling, drill point, high thread fastener for use in wood or steel decks.
Drill-Tec™ Purlin Fastener <i>Manufacturing</i> <i>Location # 2</i>	4" - 10" max. length With #3 Square Head	TAS 114	Carbon steel screw, drill point, for use into min. 16 ga. steel purlin. With CR-10 coating.
Drill-Tec™ Locking Impact Nail <i>Manufacturing</i> <i>Location #3</i>	2.7" head dia. 1.4" length or 2.7" head dia. 1.8" length	TAS 114 TAS 117	High tensile coated steel staple, factory assembled into G-90 hot dipped galvanized steel tube with a 2.7" diameter AZ-55 galvalume steel disk. For base sheet and insulation attachment to new or existing cementitious wood fiber, poured gypsum and lightweight concrete decks.

PLATES:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ 3" Steel Plate <i>Manufacturing</i> <i>Location # 2</i>	3" round	TAS 114	Round galvalume plated steel stress plate with reinforcing ribs for use with GAF fasteners.
Drill-Tec™ 3 in. Ribbed Galvalume Plate (Flat) <i>Manufacturing</i> <i>Location # 2</i>	3" round	TAS 114	Round galvalume plated steel stress plate with reinforcing ribs for use with GAF fasteners
Drill-Tec™ AccuTrac Recessed Plate <i>Manufacturing</i> <i>Location # 5</i>	3" square 0.017" thick.	TAS 114 TAS 117	Galvalume steel plate for use with GAF fasteners.
Drill-Tec™ AccuTrac Flat Plate <i>Manufacturing</i> <i>Location # 5</i>	3" square 0.017" thick	TAS 114 TAS 117	A2-SS aluminized steel plate for use with GAF fasteners.
Drill-Tec™ LD Plate <i>Manufacturing</i> <i>Location # 2</i>	3" round	TAS 114 TAS 117	Round, galvalume plate for use with Lite-Deck Fasteners.
Drill-Tec™ 2" Gyptec Plate <i>Manufacturing</i> <i>Location # 2</i>	2" round	TAS 114	AZ-55 galvalume plate for use with the Polymer Gyptec fastener.
Drill-Tec™ 3" Gyptec Plate <i>Manufacturing</i> <i>Location # 2</i>	3" round	TAS 114 TAS 117	AZ-55 Galvalume plate for use with the Polymer GypTec fastener.



PLATES:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ Plastic Plate <i>Manufacturing</i> <i>Location # 4</i>	3” round	TAS 117	Round high density polypropylene stress plate for use with GAF fasteners.
Drill-Tec™ 2 in. Barbed Plate <i>Manufacturing</i> <i>Location # 2</i>	2” round	TAS 114 TAS 117	Round galvanized steel stress plates for use with GAF fasteners.
Drill-Tec™ 2-3/4 in. Barbed SXHD Plate <i>Manufacturing</i> <i>Location # 2</i>	2-3/4” round	TAS 114	Round galvanized steel stress plates for use with GAF fasteners.
Drill-Tec™ 2-3/8 in. Barbed XHD Plate <i>Manufacturing</i> <i>Location # 2</i>	2-3/8” round	TAS 114	Round galvanized steel stress plates for use with GAF fasteners.
Drill-Tec™ Eyehook™ Accuseam Plate <i>Manufacturing</i> <i>Location # 5</i>	2-3/8” round	TAS 114	Round galvalume steel plate for use with GAF fasteners.
Drill-Tec™ Standard Steel Plate <i>Manufacturing</i> <i>Location # 2</i>	3" round 0.018"- 0.021" thick.	TAS 114 TAS 117	Galvalume coated steel plate for use with approved fasteners screw.
Drill-Tec™ RhinoBond® TPO XHD Plate <i>Manufacturing</i> <i>Location # 2, 3</i>	3” round	TAS 114	Gold primer coated plate for use with TPO membranes.
Drill-Tec™ RhinoBond® PVC XHD Plate <i>Manufacturing</i> <i>Location # 2, 3</i>	3” round	TAS 114	Black primer coated plate for use with PVC membranes.
RhinoBond TreadSafe Plate (TPO) <i>Manufacturing</i> <i>Location # 2, 3</i>	3” round	TAS 114	Round, coated galvalume plate (Gold) used for TPO membranes.
Rhinobond TreadSafe Plate (PVC)			Round, coated galvalume plate (Black) used for PVC membranes.
Drill-Tec™ RhinoBond® TPO SXHD Plate <i>Manufacturing</i> <i>Location # 2, 3</i>	3” round	TAS 114	Round, coated galvalume plate (Gold) used for TPO membranes.



PLATES:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ Batten Bar <i>Manufacturing Location # 6</i>	1” wide 0.044” thick 10’ long	TAS 114 TAS 117	Galvalume coated fastening strip designed with 0.25” diameter holes spaced 6” o.c. for use with approved GAF fasteners over steel, wood and concrete decks.

PRE-ASSEMBLED SYSTEMS:

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ Base Sheet Fastener (1.2 in.) <i>Manufacturing Location # 3</i>	1.125" head 1.2" length. 2.75" Galvalume steel stress plate.	TAS 114 TAS 117	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 Base Sheet Plate.
Drill-Tec™ Base Sheet Fastener (1.7 in.) <i>Manufacturing Location # 3</i>	1.125" head 1.75" length. 2.75" Galvalume steel stress plate.	TAS 114 TAS 117	G-90 galvanized fastener for base sheet attachment to gypsum decks and lightweight insulating concrete decks. With CR-10 fluorocarbon coating. With Base Sheet Plate.
Drill-Tec™ ASAP 3S <i>Manufacturing Location: See components above</i>	See components above	TAS 114	Drill-Tec™ #12 Fastener with Drill-Tec™ 3” Standard Steel Plate
Drill-Tec™ ASAP 3P <i>Manufacturing Location: See components above</i>	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 <i>Manufacturing Location: See components above</i>	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 <i>Manufacturing Location: See components above</i>	See components above	TAS 114	Drill-Tec™ XHD Fastener with Drill-Tec™ 2-3/8 in Barbed XHD Plate.
Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Metal Plate <i>Manufacturing Location: See components above</i>	See components above	TAS 114	Drill-Tec™ #14 fastener with Drill-Tec™ 3” Standard Steel Plate.



Drill-Tec™ Heavy Duty ASAP Roofing Fastener Assembled with a 3" Plastic Plate <i>Manufacturing Location: See components above</i>	See components above	TAS 114	Drill-Tec™ #14 Fastener with Drill-Tec™ 3" Plastic Plate.
Drill-Tec™ Extra Heavy Duty ASAP Roofing Fastener – Insulation <i>Manufacturing Location: See components above</i>	See components above	TAS 114	Drill-Tec™ XHD Fastener with a Drill-Tec™ 3" Standard Steel Plate.

EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
FM Approvals	FM 4470	3019315	04/09/04
	FM 4470	3025527	08/07/06
	FM 4470	797-02914-267	05/11/07
	FM 4470	797-02918-267	05/18/07
	FM 4470	797-03186-267	09/19/07
	FM 4450	797-03187-267	10/11/07
	FM 4470	797-03364-267	01/18/08
	FM 4470	3026774	01/21/08
	FM 4470	3031546	02/25/08
	FM 4450	3032397	02/28/08
	FM 4470	3031797	05/19/08
	FM 4470	797-03825-267	07/21/08
	FM Small Scale Testing	3035599	04/01/09
	FM Letter	3036723	06/03/09
	FM 4470	797-05591-267	07/06/10
	FM 4450	3037608	08/18/10
	FM 4470	3040926	11/10/10
	FM 4470	797-06631-267	07/18/11
	FM 4470	3042374	08/11/11
	FM 4470	3051348	01/02/14
	FM 4470	3051348-Re-Issue 1	01/13/14
	FM 4470	3061623 letter	06/11/17
	FM 4470	PR465465	07/11/23
FM 4470	PR467308	08/14/24	
NEMO ETC, LLC	TAS 117(A) & (B)	4u-OMG-23-SSMFP-01.A	07/26/23



TYPICAL PHYSICAL PROPERTIES:

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

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	3,000	Static Load	TAS 117(A)	1”	798.0
		Pulsating Load			578.0
Drill-Tec™ CD-10	3,000	Static Load	TAS 117(A)	1”	533.0
		Pulsating Load			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.	Static Load	TAS 117(A)	N/A	185.75
		Pulsating Load			106.5
Drill-Tec™ #12 Fastener Hex Head	22 ga.	Static Load	TAS 117(A)	N/A	185.75
		Pulsating Load			106.5
Drill-Tec™ #14 Fastener	22 ga.	Static Load	TAS 117(A)	¾”	151.5
		Pulsating Load			136.5
Drill-Tec™ XHD Fastener	22 ga.	Static Load	TAS 117(A)	N/A	264.45
		Pulsating Load			124.0

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”	Static Load	TAS 117(A)	N/A	267.6
		Pulsating Load			119.0
Drill-Tec™ #12 Fastener Hex Head	Min. 19/32”	Static Load	TAS 117(A)	N/A	267.6
		Pulsating Load			119.0
Drill-Tec™ #14 Fastener	Min. 15/32”	Static Load	TAS 117(A)	¾”	137.5
		Pulsating Load			133.0
Drill-Tec™ XHD Fastener	Min. 19/32”	Static Load	TAS 117(A)	N/A	290.85
		Pulsating Load			150.0

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	Static Load	TAS 117(A)	1.5”	140.5
		Pulsating Load			106.0
Drill-Tec™ LD Fastener	Any	Static Load	TAS 117(A)	2”	122.0
		Pulsating Load			115.5
Drill-Tec™ Locking Impact Nail	Any	Static Load	TAS 117(A)	1.8”	55.5
		Pulsating Load			46.0



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 (1.2 in.)	Poured	Static Load	TAS 117(A)	N/A	68.0
		Pulsating Load			65.0
Drill-Tec™ Polymer Gyptec Fastener	Poured	Static Load	TAS 117(A)	1.5"	259.0
		Pulsating Load			257.0
Drill-Tec™ LD Fastener	Poured	Static Load	TAS 117(A)	2"	341.5
		Pulsating Load			300.0
Drill-Tec™ Locking Impact Nail	Poured	Static Load	TAS 117(A)	1.8"	92.5
		Pulsating Load			84.0

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 (1.7 in.)	200	Pulsating Load	TAS 117(A)	N/A	28 day cure, 48.0
		Static Load			3 day cure, 45.5
		Static Load			28 day cure, 59.5
Drill-Tec™ Base Sheet Fastener (1.2 in.)	200	Pulsating Load	TAS 117(A)	N/A	28 day cure, 38.5
		Static Load			3 day cure, 29.5
		Static Load			28 day cure, 48.5
Drill-Tec™ Locking Impact Nail	300	Pulsating Load	TAS 117(A)	1.8"	28 day cure, 40.0
		Static Load			28 day cure, 61.0



Base Sheet Rupture Performance – TAS 117(B)

<u>GAF Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>
Drill-Tec™ LD Plate, Drill-Tec™ 3” Standard Steel Plate, and Drill-Tec™ 3” Gyptec Plate	Allied Signal	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 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
	CertainTeed	Flexiglas Base Sheet	62.5
		Flintlastic Poly SMS Base Sheet	125.0
	Siplast	Parabase	93.5
		Parabase Plus	77.5
	Tamko	Glass-Base	86.5
Vapor-Chan		73.5	
Tremco	BURMastic Glass Ply	53.5	
	BURMastic Composite Ply	112.0	
Drill-Tec™ Base Sheet Fastener (1.2 in.) & Drill-Tec™ Base Sheet Fastener (1.7 in.)	Allied Signal	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 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
	CertainTeed	Flexiglas Base Sheet	58.5
		Flintlastic Poly SMS Base Sheet	107.5
	Siplast	Parabase	82.5
		Parabase Plus	93.5



Base Sheet Rupture Performance – TAS 117(B)

<u>GAF Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>	
Drill-Tec™ Base Sheet Fastener (1.2 in.) & Drill-Tec™ Base Sheet Fastener (1.7 in.)	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® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate	GAF	GAFGLAS® 75 Base Sheet	88.5	
		GAFGLAS® Stratavent Nailable Venting Base Sheet	98.8	
		#80 Ultima™ Base Sheet	106.1	
		Liberty™ MA base	137.7	
	JM	Permaply #28	100.5	
		Ventsulation	95.1	
		Glastite Flexible Base	163.1	
		Dynabase	161.5	
	Tamko	APP Base	102.5	
		Glass base	99.5	
		Versa Base	129.0	
		Tam-Glas Premium	94.8	
	Drill-Tec™ Locking Impact Nail	CertainTeed	Vapor Chan	106.5
			Base-n-Ply	103.6
			GlasBase Base Sheet	101.5
			Flintlastic Base 20	97.5
All Weather / Empire Base Sheet			96.0	
Yosemite Venting Base Sheet			115.5	
Firestone		Flintlastic Poly SMS Base Sheet	135.0	
		Flintlastic SA NailBase	71.0	
GAF		MB Base	103.5	
		SBS Base	111.0	
		GAFGLAS #75 Base Sheet	101.0	
Johns Manville		GAFGLAS #80 Ultima Base Sheet	128.5	
	GAFGLAS Stratavent Eliminator Nailable Venting Base Sheet	105.0		
	DynaBase	119.5		
	Ventsulation	109.5		
	Perma Ply 28	91.5		
	DynaBase PR	141.5		
	DynaFast 180 HW	132.5		
	DynaFast 180 S	143.0		
Polyglass	DynaLastic 180S	148.5		
	Elastobase (sand faced)	131.0		
Siplast	Elastobase (film faced)	97.0		
	Parabase	111.5		
Soprema	Parabase Plus	88.0		
	Modified Sopra-G	94.5		
	Soprabase	123.0		
		Soprema Venting Base Sheet	122.5	



Base Sheet Rupture Performance – TAS 117(B)

<u>GAF Product</u>	<u>Manufacturer</u>	<u>Base Sheet</u>	<u>Typical Results (lbf)*</u>
Drill-Tec™ Locking Impact Nail (Continued)	Tamko	Glass-Base	98.5

Single Ply Lap Rupture Performance – TAS 117(B)

<u>GAF 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 afore listed physical properties listed above are presented at typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

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



APPROVED APPLICATIONS:

- Tradename:** **Drill-Tec™ #12 Fastener**
Compatible Plate(s): Drill-Tec™ 3” Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat), Drill-Tec™ Plastic Plate, Drill-Tec™ 2-3/8” Barbed XHD Plate, Drill-Tec™ Eyehook™ Accuseam Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec 3” Standard Steel Plate; 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™ #12 Fastener Hex Head**
Compatible Plate(s): Drill-Tec™ 3” Steel Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec™ 3” Standard Steel Plate; 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™ #14 Fastener**
Compatible Plate(s): Drill-Tec™ 3” Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat), Drill-Tec™ RhinoBond® TPO XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO SXHD Plate, Drill-Tec™ Eyehook™ Accuseam Plate, Drill-Tec™ Plastic Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec™ 3” Standard Steel 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. 15/32" plywood or wood plank, 3000 psi concrete or concrete plank
- Tradename:** **Drill-Tec™ XHD Fastener, Drill-Tec SXHD Fastener**
Compatible Plate(s): Drill-Tec™ 3” Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat), Drill-Tec™ RhinoBond® TPO XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO SXHD Plate, Drill-Tec™ 23/4” Barbed SXHD Plate, Drill-Tec™ 23/8” Barbed XHD Plate, Drill-Tec™ Eyehook™ Accuseam Plate, Drill-Tec™ Plastic Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec™ 3” Standard Steel Plate; and proprietary seam and fastening assembly plates listed in the specific Roof System Assembly, Product Control Approval (NOA).
- 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, 3000 psi concrete or concrete plank

APPROVED APPLICATIONS: (CONTINUED)

Tradename: **Drill-Tec™ CD-10**
Compatible Plate(s): Drill-Tec™ 3” Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat), Drill-Tec™ 2-3/8” Barbed XHD Plate, Drill-Tec™ Eyehook™ Accuseam Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec™ 3” Standard Steel Plate and 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: 3000 psi concrete or concrete plank.

Tradename: **Drill-Tec™ LD Fastener**
Compatible Plate(s): Drill-Tec™ LD 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): Drill-Tec™ 2” Gyptec Plate or Drill-Tec™ 3” Gyptec 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™ RhinoBond® TPO XHD Plate, Drill-Tec™ RhinoBond® PVC XHD Plate, Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate, Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate, Drill-Tec™ RhinoBond® TPO SXHD Plate, Drill-Tec™ 3” Steel Plate, Drill-Tec™ 3” Ribbed Galvalume® Plate (Flat), Drill-Tec™ Plastic Plate, Drill-Tec™ 2-3/8” Barbed XHD Plate, Drill-Tec™ Eyehook™ Accuseam Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, and Drill-Tec™ 3” Standard Steel Plate; 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: Min. 16 ga., 50 ksi steel

Tradename: **Drill-Tec™ Locking Impact Nail**
Compatible Plate(s): N/A
Application: See specific Roof Assembly Notice of Acceptance for fastener density and approved attachment patterns.
Deck: New or existing Cementitious Wood Fiber, Poured Gypsum, min. 300 psi Lightweight Insulating Concrete



GENERAL LIMITATIONS:

1. GAF 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 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 61G20-3 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, city and state of manufacturing facility, and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.



END OF THIS ACCEPTANCE

