MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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Miami, Florida 33175-2474
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www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

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 revises and renews NOA No. 15-0731.01 and consists of pages 1 through 15.

The submitted documentation was reviewed by ***Freddy Semino***

ROOFING COMPONENT APPROVAL

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

MANUFACTURING LOCATIONS:

1. Addison, 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:

Product	Dimensions	Test Specifications	Product Description
Drill-Tec™ #12 Fastener *Manufacturing Location # 1,2*	#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. Available with a pinch point or drill point.
Drill-Tec™ #14 Fastener *Manufacturing Location # 2*	#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 *Manufacturing Location # 1, 2*	#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.
Drill-Tec™ #12 Fastener Hex Head *Manufacturing Location # 1,2*	#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 *Manufacturing Location # 2*	#12 x 8" max. Length, #3 Phillips head.	TAS 114 TAS 117	Phillips head, modified buttress thread, pinch point, or drill point stainless steel fastener for use in steel or wood decks.
Drill-Tec™ CD-10 *Manufacturing Location # 2*	0.214" min. dia. x 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 *Manufacturing Location # 2*	0.240" to 0.375" x 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 *Manufacturing Location # 4*	0.675" Thread dia. x 1" dia. Head x 12" max. length	TAS 117	One piece, glass reinforced nylon fastener for use in gypsum and cementitious wood fiber decks.

FASTENERS:

Product	Dimensions	Test Specifications	Product Description
Drill-Tec™ SXHD *Manufacturing Location # 1, 2*	#21 x 16" max. length; #3 Phillips head	TAS 114	Truss head, self-drilling, drill point, high thread fastener for use in steel decks.
Drill-Tec™ Purlin Fastener *Manufacturing Location # 2*	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.

PLATES:

Product	Dimensions	Test Specifications	Product Description
Drill-Tec™ 3" Standard Steel Plate *Manufacturing Location # 2*	3" round	TAS 114 TAS 117	Galvalume® coated steel plate for use with approved Drill-Tec™ fasteners.
Drill-Tec™ 3" Steel Plate *Manufacturing Location # 2*	3" round	TAS 114	Round Galvalume® steel stress plate with reinforcing ribs and recess for use with Drill-Tec™ fasteners.
Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat) *Manufacturing Location # 2*	3" round	TAS 114	Round Galvalume® plated steel stress plate with reinforcing ribs for use with Drill-Tec™ fasteners.
Drill-Tec™ AccuTrac® Recessed Plate *Manufacturing Location # 5*	3" square; .017" thick.	TAS 114 TAS 117	Galvalume® steel plate with recess for use with Drill-Tec™ fasteners.
Drill-Tec™ AccuTrac® Flat Plate *Manufacturing Location # 5*	3" square; .017" thick	TAS 114 TAS 117	A2-SS aluminized steel plate for use with Drill-Tec™ fasteners.
Drill-Tec™ LD Plate *Manufacturing Location # 2*	3" round	TAS 114 TAS 117	Round, Galvalume® plate for use with Drill-Tec™ LD Fasteners.
Drill-Tec™ 2" Gyptec Plate *Manufacturing Location # 2*	2" round	TAS 114	AZ-55 Galvalume® plate for use with the Drill-Tec™ Polymer Gyptec fastener.
Drill-Tec™ 3" Gyptec Plate *Manufacturing Location # 2*	3" round	TAS 114 TAS 117	AZ-55 Galvalume® plate for use with the Drill-Tec™ Polymer Gyptec fastener.

PLATES:

Product	Dimensions	Test Specifications	Product Description
Drill-Tec™ Plastic Plate *Manufacturing Location # 4*	3" round	TAS 117	Round high density polypropylene stress plate for use with Drill-Tec™ fasteners.
Drill-Tec™ 2 in. Barbed Plate *Manufacturing Location # 2*	2" round	TAS 114 TAS 117	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.
Drill-Tec™ 2-¾" Barbed SXHD Plate *Manufacturing Location # 2*	2-¾" round	TAS 114	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.
Drill-Tec™ 2-3/8 in. Barbed XHD Plate *Manufacturing Location # 2*	2-3/8" round	TAS 114	Round galvanized steel stress plates for use with Drill-Tec™ fasteners.
Drill-Tec™ Eyehook™ Accuseam Plate *Manufacturing Location # 5*	2-⅜" round	TAS 114	Round Galvalume® steel plate for use with Drill-Tec™ fasteners.
Drill-Tec™ RhinoBond® TPO XHD Plate *Manufacturing Location # 2, 3*	3" round	TAS 114	Gold primer coated plate for use with TPO membranes.
Drill-Tec™ RhinoBond® TPO SXHD Plate *Manufacturing Location # 2, 3*	3" round	TAS 114	Gold primer coated plate for use with TPO membranes.
Drill-Tec™ RhinoBond® PVC XHD Plate *Manufacturing Location # 2, 3*	3" round	TAS 114	Black primer coated plate for use with PVC membranes.
Drill-Tec™ RhinoBond® PVC XHD Tread Safe Plate *Manufacturing Location # 2, 3*	3" round	TAS 114	Round, coated Galvalume® plate (Black primer coating) used for PVC membranes.
Drill-Tec™ RhinoBond® TPO XHD Tread Safe Plate *Manufacturing Location # 2, 3*	3" round	TAS 114	Round, coated Galvalume® plate (Gold primer coating) used for TPO membranes.

PRE-ASSEMBLED SYSTEMS:

Product	Dimensions	Test Specifications	Product Description
Drill-Tec™ AccuTrac® Fastening System *Manufacturing Location # 5*	See components above	TAS 114	AccuTrac® Galvalume® plates with approved fasteners
Drill-Tec™ Base Sheet Fastener (1.2 in.) *Manufacturing Location # 3*	1.125" head x 1.2" length. 2.75" Galvalume steel stress plate.	TAS 114 TAS 117	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and on lightweight insulating concrete decks less than 2" thick. With OMG CR-10 fluorocarbon coating. With Base Sheet Plate
Drill-Tec™ Base Sheet Fastener (1.7 in.) *Manufacturing Location # 3*	1.125" head x 1.75" length. 2.75" Galvalume steel stress plate.	TAS 114 TAS 117	G-90 galvanized fastener with plate for base sheet attachment to gypsum decks and lightweight insulating concrete decks. With OMG CR-10 fluorocarbon coating. With Base Sheet Plate
Drill-Tec™ Extra Heavy Duty ASAP Roofing Fastener – Insulation *Manufacturing Location: See components above*	See components above	TAS 114	Drill-Tec™ XHD Fastener with a Drill-Tec™ 3" Standard Steel Plate.
Drill-Tec™ ASAP 3P *Manufacturing Location: See components above*	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 *Manufacturing Location: See components above*	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 *Manufacturing Location: See components above*	See components above	TAS 114	Drill-Tec™ XHD Fastener with Drill-Tec™ 2-3/8 in Barbed XHD Plate.
Drill-Tec™ ASAP 3S *Manufacturing Location: See components above*	See components above	TAS 114	Drill-Tec™ #12 Fastener with Drill-Tec™ 3" Standard Steel Plate

PRE-ASSEMBLED SYSTEMS:

Drill-Tec™ Heavy Duty ASAP Roofing Fastener – Assembled with a 3" Metal Plate *Manufacturing Location: See components above*	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 *Manufacturing Location: See components above*	See components above	TAS 114	Drill-Tec™ #14 Fastener with Drill-Tec™ 3" Plastic Plate.

EVIDENCE SUBMITTED:

Test Agency	Test Identifier	Test Name/Report	Date
Factory Mutual Research Corporation	FM 4470	0E6A9.AM	01/22/80
	FM 4470	0G1A9.AM	10/19/82
	Tensile/Shear Data	No. MA 4907 Lab # 2386	01/13/83
	Pull Out	No. MA 4907 Lab # 9098	04/24/85
	Pull Out/Shear Data	0M3A6.AM	07/31/85
	FM 4470	1N5A6.AM	06/22/87
	FM 4470	1R0A4.AM	04/03/90
	Wind Uplift	0T0A5.AM	06/01/91
	FM 4470	1T3A3.AM	11/26/91
	Wind Uplift	2V0A5.AM	02/01/92
	FM 4470	1V9A5.AM	09/16/92
	Pull Out/Shear Data	1T2A6.AM	02/22/93
	Wind Uplift	1X2A6.AM	08/01/93
	Wind Uplift	0W7A2.AM	09/01/93
	FM 4450	1Y5A4.AM	07/19/94
	FM 4470	3Z5A4.AM	02/23/96
	FM 4470	0D6A0.AM	09/12/97
	FM 4470	1D0A3.AM	09/24/97
	FM 4470	4D1A5.AM	08/04/98
	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

Test Agency	Test Identifier	Test Name/Report	Date
	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

EVIDENCE SUBMITTED: (CONTINUED)

Test Agency	Test Identifier	Test Name/Report	Date
	FM 4470	3051348	01/02/14
	FM 4470	3051348-Re-Issue 1	01/13/14
	FM 4470	3061623 letter	06/11/17
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)	EO8950.04.08	04/17/08
	TAS 117(A), (B) & (C)	O8050.04.08-R1	04/18/08
	TAS 117(A), (B) & (C)	O8050.04.08-R2	09/04/13
	TAS 117(A) & (B)	SC6995.09.14-R1	11/18/14

TYPICAL PHYSICAL PROPERTIES:

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

Concrete Deck

Product	Min. psi	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
Drill-Tec™ #14 Fastener	3,000	Static Load	TAS 117(A)	N/A	391.65
		Pulsating Load			241.0
Drill-Tec™ CD-10	3,000	Static Load	TAS 117(A)	1”	533.0
		Pulsating Load			410.0

Steel Deck

Product	Deck Thickness	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
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™ #12 Stainless	22 ga.	Static Load	TAS 117(A)	N/A	173.0
		Pulsating Load			146.5
Drill-Tec™ #14 Fastener	22 ga.	Static Load	TAS 117(A)	N/A	191.35
		Pulsating Load			110.0
Drill-Tec™ XHD Fastener	22 ga.	Static Load	TAS 117(A)	N/A	264.45
		Pulsating Load			124.0

Plywood Deck

Product	Deck Thickness	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
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™ #12 Stainless	Min. $^{15}/_{32}$”	Static Load	TAS 117(A)	N/A	138.5
		Pulsating Load			135.0
Drill-Tec™ #14 Fastener	Min. $^{19}/_{32}$”	Static Load	TAS 117(A)	N/A	306.8
		Pulsating Load			141.0
Drill-Tec™ XHD Fastener	Min. $^{19}/_{32}$”	Static Load	TAS 117(A)	N/A	290.85
		Pulsating Load			150.0

Cementitious Wood Fiber Decks

Product	Deck	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
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

Gypsum Decks

Product	Deck	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
Drill-Tec™ Base Sheet Fastener (1.2)	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

Lightweight Concrete Deck

Product	Min. psi	Property(s) Tested	Test	Min. Embedment/ Penetration	Typical Results (lbf)
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
					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
					28 day cure, 48.5

Base Sheet Rupture Performance – TAS 117(B)

Product	Manufacturer	Base Sheet	Typical Results (lbf)*
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

Base Sheet Rupture Performance – TAS 117(B)

Product	Manufacturer	Base Sheet	Typical Results (lbf)*
Drill-Tec™ Base Sheet Fastener (1.2 in.) & Drill-Tec™ Base Sheet Fastener (1.7 in.)	Johns Manville	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
	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	88.45
		GAFGLAS® Stratavent Nailable Venting Base Sheet	98.75
		#80 Ultima™ Base Sheet	106.05
		Liberty™ MA base	137.7
	JM	Permaply #28	100.45
		Ventsulation	95.1
		Glastite Flexible Base	163.05
		Dynabase	161.45
		APP Base	102.45
	Tamko	Glass base	99.45
		Versa Base	128.95
		Tam-Glas Premium	94.8
		Vapor Chan	106.45
		Base-n-Ply	103.55

*** 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)

OMG Product	Manufacturer	Base Sheet	Typical Results (lbf)
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 AS™ 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 Stainless**
Compatible Plate(s):	Drill-Tec™ 3" Steel Plate, Drill-Tec™ 3 in. Ribbed Galvalume® Plate (Flat), 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, 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. 15/32" plywood or wood plank
Tradename:	**Drill-Tec™ XHD 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™ 2-3/4" Barbed SXHD Plate, Drill-Tec™ 2-3/8" 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).
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, 3000 psi concrete or concrete 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™ SXHD**
Compatible Plate(s):	Drill-Tec™ 3" Steel Plate, Drill-Tec™ 3" Ribbed Galvalume Plate (Flat), Drill-Tec™ RhinoBond® TPO XHD Plate, 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™ 2-3/4" Barbed SXHD Plate, Drill-Tec™ 2-3/8" Barbed XHD Plate, Drill-Tec™ Eyehook™ Accuseam® Plate, Drill-Tec™ Plastic Plate, Drill-Tec™ AccuTrac® Recessed Plate, Drill-Tec™ AccuTrac® Flat Plate, 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. 19/32" plywood or wood plank, 3000 psi concrete or concrete plank
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

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 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.

MIAMI-DADE COUNTY APPROVED

END OF THIS ACCEPTANCE