



**BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908**

**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 by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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.

**DESCRIPTION: Drill-Tec™ DL Base Sheet Fastener, Drill-Tec™ Base Sheet Fastener E and the Drill-Tec™ Locking Impact Nail**

**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 consists of pages 1 through 12.

The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 10-0331.06  
Expiration Date: 04/17/13  
Approval Date: 10/13/10  
Page 1 of 12**

**ROOFING ASSEMBLY APPROVAL:**

**Category:** Roofing Fasteners  
**Sub Categories:** Base Sheet, Insulation

**1. SCOPE**

This approves GAF Material Corporations Drill-Tec™ roof fastening systems described in the Approved Applications section of this Notice of Acceptance, designed to comply with the High Velocity Hurricane Zone section of the Florida Building Code.

**2. PRODUCT DESCRIPTION**

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
Drill-Tec™ Base Sheet Fastener E (1.2 in.)	2.7" head x 1.2" long	TAS 114 TAS 117	Two piece factory preassembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013 in. thick G-90 hot dipped galvanized steel. The entire fastener is coated on both sides with a black urethane coating. For use in NVS concrete decks and various poured gypsum decks.
Drill-Tec™ Base Sheet Fastener E (1.7 in.)	2.7" head x 1.7" long	TAS 114 TAS 117	Two piece factory preassembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013 in. thick G-90 hot dipped galvanized steel. The entire fastener is coated on both sides with a black urethane coating. For use in lightweight insulating concrete and various poured gypsum decks.



Drill-Tec™ DL 1.7" Base Sheet Fastener	2.46" wide x 3.59" long x 1.665" tall	TAS 114 TAS 117	Two piece factory preassembled base ply fastener/plate unit with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013 in. thick G-90 hot dipped galvanized steel. The entire fastener is coated on both sides with a black urethane coating. For use in lightweight insulating concrete and various poured gypsum decks.
Drill-Tec™ Locking Impact Nail	2.7" head x 1.4" long, 2.7" head x 1.8" long, 2.7" head x 2.8" long, 2.7" head x 3.8" long, 2.7" head x 4.8" long	TAS 114 TAS 117	Three piece factory preassembled fastener/plate unit. Tube formed from .030" thick G-90 hot dipped 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" coated steel is factory assembled into tube. For base ply and insulation attachment to new or existing cementitious wood fiber, poured gypsum and lightweight insulating concrete decks.



## 2.1 EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
Trinity ERD	Withdrawal Performance		
Factory Mutual Research Corporation	Wind Uplift	J.I. 0R0Q1.AM	03/22/91
Factory Mutual Research Corporation	Wind Uplift	J.I. 1V1A9.AM	07/12/91
Factory Mutual Research Corporation	Standard 4470	J.I. 0V8A3.AM	11/13/91
Factory Mutual Research Corporation	Standard 4470	J.I. 1V9A8.AM	02/25/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 0W2A0.AM	03/19/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 1W5A2.AM	10/05/92
Factory Mutual Research Corporation	Wind Uplift	J.I. 0W4A1.AM	01/04/93
Factory Mutual Research Corporation	Corrosion Resistance Testing of Loc-Nails	J.I. 0W4A1.AM	01/07/93
Factory Mutual Research Corporation	Standard 4470	J.I. 3W3A5.AM	01/27/94
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
Factory Mutual Research Corporation	Corrosion Resistance	3031797	05/19/08
Trinity ERD	TAS 117(A) & (B)	#EO8950.04.08	04/17/08



## 2.2 TYPICAL PROPERTIES

**Note:** A margin of safety of 2 has been applied to the listed test results.

<b>Withdrawal Resistance Performance - TAS 117(A) - Static Load</b>			
<b>Fastener</b>	<b>Deck Type</b>	<b>Static Withdrawal Resistance (lbf)</b>	
Drill-Tec™ DL 1.7" Base Sheet Fastener	Min. 200 psi cellular Lightweight concrete	3 day cure 44.0	28 day cure 82.0
Drill-Tec™ Base Sheet Fastener E (1.2 in.)	Poured gypsum	30.0	
Drill-Tec™ Base Sheet Fastener E (1.7 in.)	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
Drill-Tec™ Locking Impact Nail	Poured gypsum	262.7	
Drill-Tec™ Locking Impact Nail	Cementitious wood fiber	176.2	

<b>Withdrawal Resistance Performance - TAS 117(A) - Pulsating Load</b>		
<b>Fastener</b>	<b>Deck Type</b>	<b>Static Withdrawal Resistance (lbf)</b>
Drill-Tec™ DL 1.7" Base Sheet Fastener	Min. 200 psi cellular lightweight concrete	28 day cure - 65
Drill-Tec™ Base Sheet Fastener E (1.2 in.)	Poured gypsum	25.8
Drill-Tec™ Base Sheet Fastener E (1.7 in.)	Min. 200 psi cellular lightweight concrete	28 day cure – 42.9
	Min. 200 psi aggregate lightweight concrete	28 day cure – 66.3
Drill-Tec™ Locking Impact Nail	Poured gypsum	196.0
Drill-Tec™ Locking Impact Nail	Cementitious wood fiber	105.0



**Base Sheet Rupture Performance, TAS 117(B):  
2.5" x 3.6" Plate - Drill-Tec™ DL 1.7" Base Sheet Fastener**

<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbf)</b>	<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbf)</b>
Certaineed	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 Base Sheet	131		Vapor Chan	136
	GAFGLAS® Stratavent® Eliminator™ Venting Base Sheet	131	Tarco	Easy Base	93
	GAFGLAS® #80 Ultima Base Sheet	99	Tremco	BURMastic Glass Ply	142
	Liberty™ SBS MA Mechanically Attached 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



<b>Base Sheet Rupture Performance, TAS 117(B): Drill-Tec™ Base Sheet Fastener E (1.2 in.) or Drill-Tec™ Base Sheet Fastener E (1.7 in.)</b>					
<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbf)</b>	<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbf)</b>
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 Base Sheet	103		Elastophene 180	107
	GAFGLAS® Stratavent® Eliminator™ Venting Base Sheet	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



<b>Base Sheet Rupture Performance, TAS 117(B): 2.7" Head</b>					
<b>Drill-Tec™ Locking Impact Nail</b>					
<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbs.)</b>	<b>Manuf.</b>	<b>Base Sheet</b>	<b>Rupture Value (lbs.)</b>
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® Eliminator™ Venting Base Sheet	119	Soprema	Modified Sopra-G	103
GAF	GAFGLAS® Stratavent® Eliminator™ Perforated Base Sheet	97	Tamko	Glass-Base	117
GAF	GAFGLAS® #75 Base Sheet	117	Tamko	Vapor-Chan	158
WP Hickman	Multiply glass	133	Tamko	Base-N-Ply	103
WP Hickman	Multiply glass CL	191			

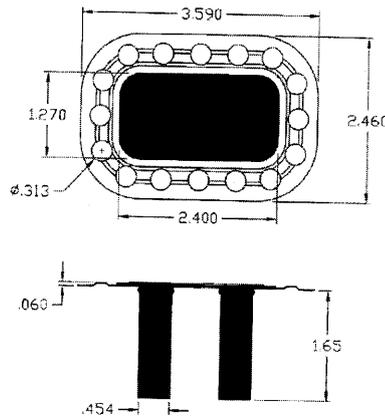


### 3. APPROVED APPLICATIONS

**Tradename:** Drill-Tec™ DL 1.7" Base Sheet Fastener

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

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



**DRILL-TEC™ DL 1.7" BASE SHEET FASTENER**

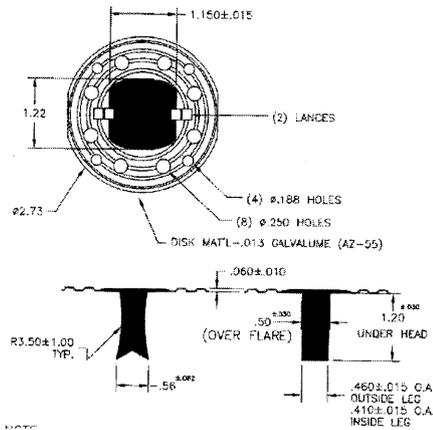
**NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.**

**Tradename:** Drill-Tec™ Base Sheet Fastener E (1.2 in.)

**Compatible Plate(s):** N/A

**Application:** Drill-Tec™ Base Sheet Fastener E (1.2 in.) is an approved and acceptable alternate to the Drill-Tec™ CR 1.2" Base Sheet Fastener. Drill-Tec™ Base Sheet Fastener E (1.2 in.) may be used in any approved Roof Assembly NOA where the Drill-Tec™ CR 1.2" Base Sheet Fastener is referenced. Approved fastening patterns and densities listed in any approved Roof Assembly NOA containing the Drill-Tec™ CR 1.2" Base Sheet Fastener shall be acceptable when using Drill-Tec™ Base Sheet Fastener E (1.2 in.).

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



**DRILL-TEC™ BASE SHEET FASTENER E (1.2 IN.)**

**NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.**

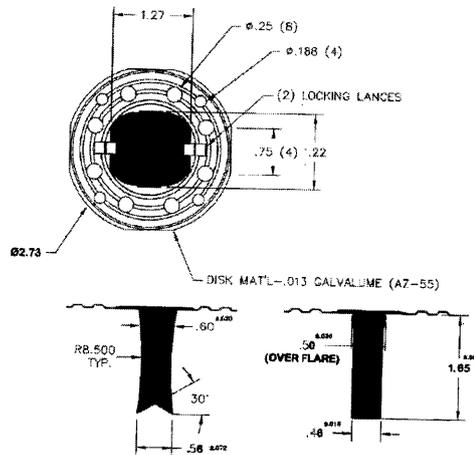


**Tradename:** Drill-Tec™ Base Sheet Fastener E (1.7 in.)

**Compatible Plate(s):** N/A

**Application:** Drill-Tec™ Base Sheet Fastener E (1.7 in.) is an approved and acceptable alternate to the Drill-Tec™ CR 1.7" Base Sheet Fastener. Drill-Tec™ Base Sheet Fastener E (1.7 in.) may be used in any approved Roof Assembly NOA where the Drill-Tec™ CR 1.7" Base Sheet Fastener is referenced. Approved fastening patterns and densities listed in any approved Roof Assembly NOA containing the Drill-Tec™ CR 1.7" Base Sheet Fastener shall be acceptable when using Drill-Tec™ Base Sheet Fastener E (1.7 in.)

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



**DRILL-TEC™ BASE SHEET FASTENER E (1.7 IN.)**



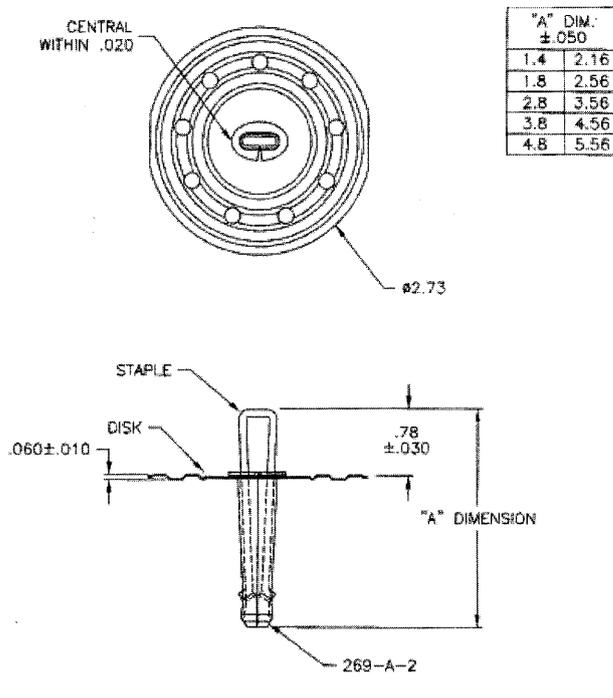
**NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.**

**Tradename:** Drill-Tec™ Locking Impact Nail

**Compatible Plate(s):** N/A

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

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



**DRILL-TEC™ LOCKING IMPACT NAIL**

**END OF THIS ACCEPTANCE**



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