



**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)

**ES Products, Inc.
280 Franklin St.
Bristol, RI 02809**

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: ES Products, Inc. Roofing Fasteners

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 03-0909.02 and consists of pages 1 through 21.
The submitted documentation was reviewed by Alex Tigera.



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ROOFING ASSEMBLY APPROVAL:

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

1.SCOPE

This approves ES Products, Inc. roof fastening systems described in Section 3 of this Notice of Acceptance, designed to comply with the Florida Building Code.

2. PRODUCT DESCRIPTION

<u>Product</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
FM-245 and FM -245V	1.2" wide x 2.4" long x 1.226" tall	TAS 114 TAS 117	One piece base ply fasteners with a pair of dual gripping shanks, are formed from 0.013 in. thick G-90 hot dipped galvanized steel. Only the cap (head) on the fastener is coated on both sides with a black urethane coating. For use in NVS concrete and various poured gypsum decks. FM-245V includes a V-shaped notch on the bottom of the shanks (stems).
FM-245 (Alt.) and FM -245V (Alt.)	1.2" wide x 2.4" long x 1.226" tall	TAS 114 TAS 117	One piece base ply fasteners with a pair of dual gripping shanks, are 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 and various poured gypsum decks. FM-245V (Alt.) includes a V-shaped notch on the bottom of the shanks (stems).
FM-260 and FM-260 V	1.2" wide x 2.4" long x 1.729" tall	TAS 114 TAS 117	One piece base ply fasteners with a pair of dual gripping shanks, are formed from 0.013 in. thick G-90 hot dipped galvanized steel. Only the cap (head) of the fastener is coated on both sides with a black urethane coating. For use in lightweight insulating concrete and various poured gypsum decks. FM-260V includes a V-shaped notch on the bottom of the shanks (stems).



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FM-260 (Alt.) and FM-260 V (Alt.)	1.2" wide x 2.4" long x 1.729" tall	TAS 114 TAS 117	One piece base ply fasteners with a pair of dual gripping shanks, are 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. FM-260V (Alt.) includes a V-shaped notch on the bottom of the shanks (stems).
FM-275 and FM-275V	2.46" wide x 3.59" long x 1.16" tall	TAS 114 TAS 117	Two piece factory preassembled base ply fastener/plate with dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013 in. thick G-90 hot dipped galvanized steel. Only the cap (head) of the fastener is coated on both sides with a black urethane coating. For use in NVS concrete and various poured gypsum decks. FM-275V includes a V-shaped notch on the bottom of the shanks (stems).
FM-275 (Alt.) and FM-275V (Alt.)	2.46" wide x 3.59" long x 1.16" tall	TAS 114 TAS 117	Two piece factory preassembled base ply fasteners/plate unit with a pair of 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 except for the outside edge of the oversized cap. For use in NVS concrete and various poured gypsum decks. FM-275V (Alt.) includes a V-shaped notch on the bottom of the (stems).
FM-290 and FM-290V	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 a pair of dual gripping shanks and integral rib reinforced Galvalume stress distribution plate, formed from 0.013 in. thick G-90 hot dipped galvanized steel. Only the cap (head) of the fastener is coated on both sides with a black urethane coating. For use in lightweight insulating concrete decks and various poured gypsum decks. FM-290V includes a V-shaped notch on the bottom of the shanks (stems).



FM-290 (Alt.) and FM-290V (Alt.)	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. FM-290V (Alt.) includes a V-shaped notch on the bottom of the shanks (stems).
FM-75 and FM-75V	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. Only the cap (head) of the fastener is coated on both sides with a black urethane coating. For use in NVS concrete and various poured gypsum decks. FM-75V includes a V-shaped notch on the bottom of the shanks (stems).
FM-75 (Alt.) and FM-75V (Alt.)	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. FM-75V (Alt.) includes a V-shaped notch on the bottom of the shanks (stems).



FM-90 and FM-90V	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. Only the cap (head) of the fastener is coated on both sides with a black urethane coating. For use in lightweight insulating concrete decks and various poured gypsum decks. FM-90V includes a V-shaped notch on the bottom of the shanks (stems).
FM-90 (Alt.) and FM-90V (Alt.)	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. FM-90V(Alt.) includes a V-shaped notch on the bottom of the shanks (stems).
Insuldeck Loc-Nail Assembled Base Ply Fastener	2.7" head x 1-7/8" long	TAS 114 TAS 117	Two piece factory preassembled fastener/plate unit for use in cementitious wood fiber decks. Fastener formed from .024" thick AZ-55 hot dipped Galvalume steel. A 2.7" diameter disk formed from .013" AZ-55 Galvalume steel is factory.
Nail-Tite Type A	1.7" head x 1.5" long	TAS 114 TAS 117	Two piece factory preassembled fastener for use in new or existing gypsum decks. Galvalume AZ-55 steel cap and G-90 galvanized shank.
Nail-Tite Type R	1.7" head x 1.0" long	TAS 114 TAS 117	Two piece factory preassembled fastener for use in existing gypsum decks. Galvalume AZ-55 steel cap and G-90 galvanized shank.



Twin Loc-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.
Do-All Loc-Nail	.435" head x 1.4" long .435" head x 1.75" long		One-piece stainless steel fasteners for shingle attachment to gypsum board, gypsum plank, plywood, wood, and composite decks.
Tin Tag	1.625" round stress plate with or without .235" diameter central hole		Steel bearing stress plate, coated with AZ-55 Galvalume or G-90 galvanized for use with roofing nails or Do-All Loc-Nails (w/.235" central hole) to attach underlayment or base sheet.



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.

Withdrawal Resistance Performance - TAS 117(A) - Static Load			
Fastener	Deck Type	Static Withdrawal Resistance (lbf)	
FM-245 series & FM-275 series	Poured gypsum	30.0	
FM-260 series & FM-290 series	Min. 200 psi cellular Lightweight concrete	3 day cure 44.0	28 day cure 82.0
FM-75 series	Poured gypsum	30.0	
FM-90 series	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
Nail-Tite Type A	Poured gypsum	69.4	
Nail-Tite Type R	Poured gypsum	67.3	
Insuldeck Loc-Nail	Cementitious wood fiber	31.8	
Twin Loc-Nail	Poured gypsum	262.7	
Twin Loc-Nail	Cementitious wood fiber	176.2	

Withdrawal Resistance Performance - TAS 117(A) - Pulsating Load		
Fastener	Deck Type	Static Withdrawal Resistance (lbf)
FM-245 series & FM-275 series	Poured gypsum	25.8
FM-260 series & FM-290 series	Min. 200 psi cellular lightweight concrete	28 day cure - 65
FM-75 series	Poured gypsum	25.8
FM-90 series	Min. 200 psi cellular lightweight concrete	28 day cure - 42.9
	Min. 200 psi aggregate lightweight concrete	28 day cure - 66.3
Nail-Tite Type A	Poured gypsum	51.4
Nail-Tite Type R	Poured gypsum	37.2
Insuldeck Loc-Nail	Cementitious wood fiber	20.8
Twin Loc-Nail	Poured gypsum	196.0
Twin Loc-Nail	Cementitious wood fiber	105.0

Base Sheet Rupture Performance, TAS 117(B): 2.5" x 3.6" Plate - FM-275 or FM-290					
Manuf.	Base Sheet	Rupture Value (lbf)	Manuf.	Base Sheet	Rupture Value (lbf)
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



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Firestone	SBS Base Sheet	163	Siplast	Parabase	147
	APP 160	182	Soprema	Modified Sopra G	127
	SBS Glass Torch Base	128		Soprabase	117
	SBS Poly Torch Base	173	Tamko	Glass-Base	133
GAF	GAFGLAS #75	131		Vapor Chan	136
	GAFGLAS Stratavent Eliminator	131	Tarco	Easy Base	93
	GAFGLAS #80 Ultima	99	Tremco	BURMastic Glass Ply	142
	Liberty MA Base	82		Vapor Chan	231
Garland	HPR Glas Base	140	US Ply	USP Base	144
	HPR Tri Base Plus	226		Duraflex 30 SBS Base	132
Johns Manville	Permaply #28	137		USP NVB	140
	Ventsulation	124	WP Hickman	Multi-Ply Glass	146
	Dynabase	153		Multi-Ply Glass CL	212
				Performance Ply	191
				Pika Ply HI-TEC 60	230

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

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



Base Sheet Rupture Performance, TAS 117(B): FM-260 and FM-260V					
Manuf.	Base Sheet	Rupture Value (lbf)	Manuf.	Base Sheet	Rupture Value (lbf)
Black Warrior	Modified Arrowbase	91.15	Siplast	Irex 30	77.65
CertainTeed	Flexiglas FR Base	121.6	Soprema	Elastophene 180 Sanded	159.3
	PolySMS Base	99.3		Soprafix	93.35
	UltraPolySMS Base	116.25		Soprabase	60.9
Firestone	APP160	114.62	Tamko	Versa Base	50.8
	SBS Base Sheet	95	Tremco	BURmastic Composite Ply	78.85
	SBS Glass Torch	98.8	US Intec	Flex Base 60	92.95
	SBS Poly Torch	160.6		Modified Base 190P	101.95
	SBS PolyBase	149.25	US Ply	DuraFlex 30 SBS Base	95.25
	SBS Premium Base	123.7		DuraFlex SBS PolyBase	110.9
	SBS Smooth	125.95	W.P. Hickman	Multi-Ply Glass CL	92.35
GAF MC	GAFGlass #80 Ultima	97.2		Performance Ply	132.3
Garland	Tribase	92.3		Pika Ply HI-TEC 60	151.15
P.R.S.	Derbibase	71.2		Pika Ply HI-TEC 60 Type II	205.4
Polyglass	Elastobase V	69.2			
	Polyprotector UDL	50.95			

Base Sheet Rupture Performance, TAS 117(B): 1.7" Head (Nail-Tite, Type A or R)					
Manuf.	Base Sheet	Rupture Value (lbf)	Manuf.	Base Sheet	Rupture Value (lbf)
Honeywell	Glass Fiber Base Sheet	60	Johns Manville	Glasbase	45
	Vented Base Sheet	61		Dynabase	73
Celotex	Channel Vent GB	60		Ventsulation	78
	Vaporbar GB	61		PermaPly 28	56
Firestone	MB Base	59	SOPREMA	Sopra-G	63
GAF	GAFGLAS #75	49		Modified Sopra-G	52
	Stratavent	56	Tamko	Glass-Base	70
	Ruberoid Base	71		VaporChan	75
CertainTeed	Flex-I-Glas Base	77	Tremco	BURMastic Composite Ply	78
	PolySMS	79		BURMastic Glass Ply	61
Malarkey	#501	52	US Intec	Ultrabase	71
	#515	76		Flex Base 30	53
	#602	74		Modified Base Plus	75
	#603	79	WP Hickman	Multi-Ply Glass	71
	#605	78		Performance Ply	53



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



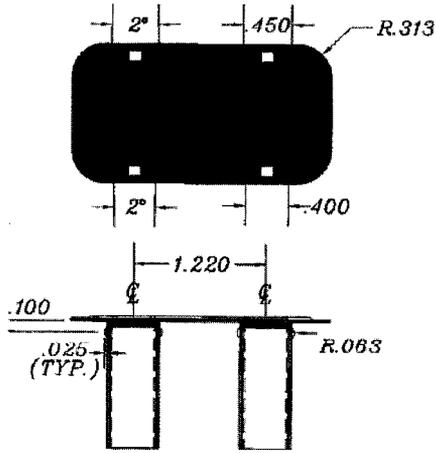
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3. APPROVED APPLICATIONS

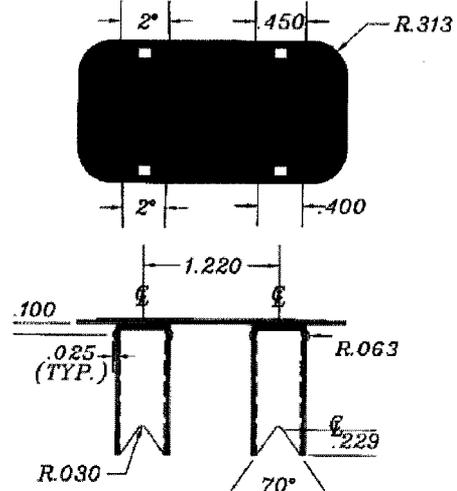
Tradename: FM-245 Series Base Ply Fastener

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

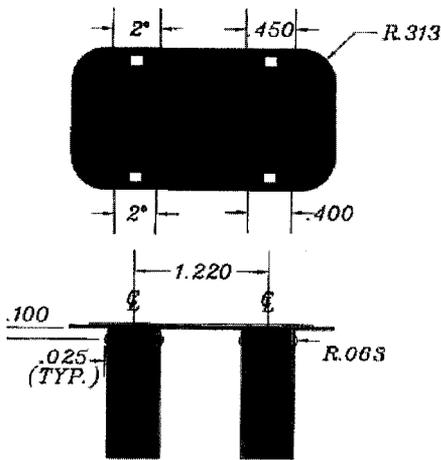
Deck: Approved NVS lightweight concrete, various poured gypsums, and existing gypsum. See lightweight concrete deck Notice of Acceptance for Approved deck systems.



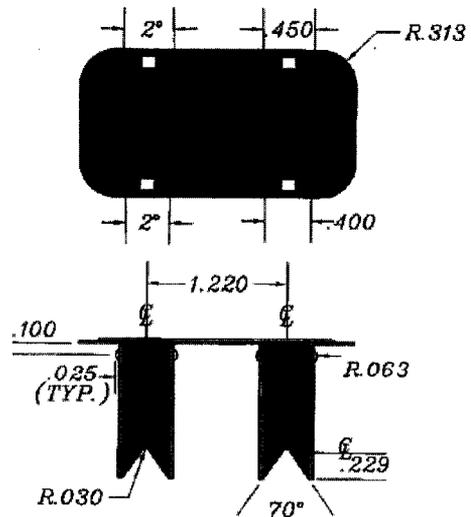
FM-245



FM-245V



FM-245 (ALT.)



FM-245V (ALT.)

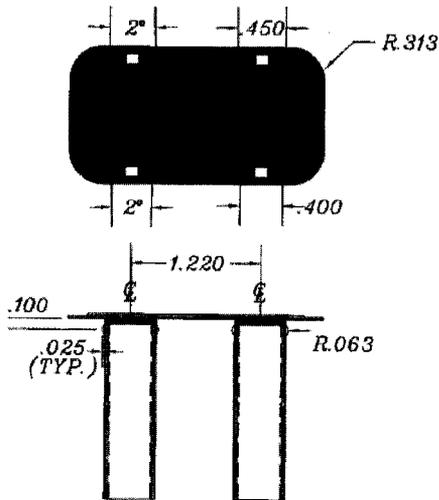
NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.



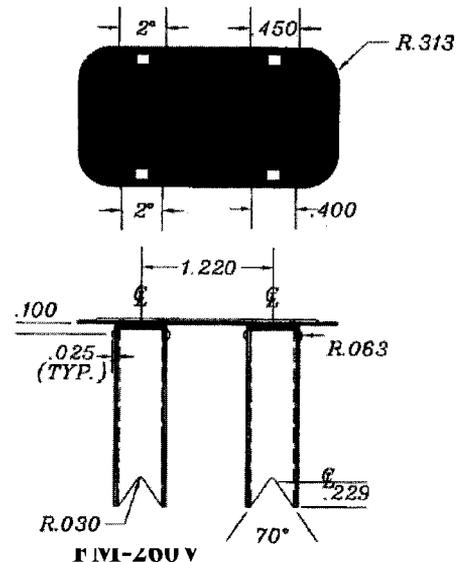
Tradename: FM-260 Series Base Sheet Fastener

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

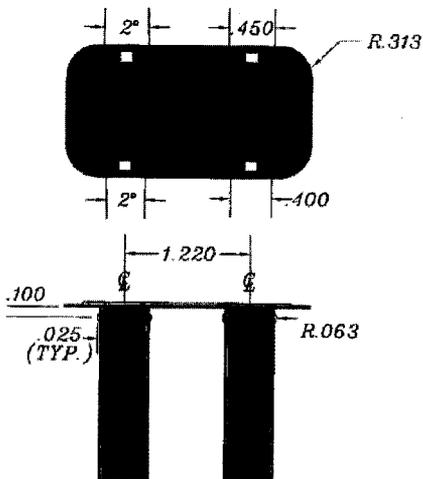
Deck: Approved minimum 200-psi aggregate or cellular lightweight concrete. See lightweight concrete deck Notice of Acceptance for Approved deck systems



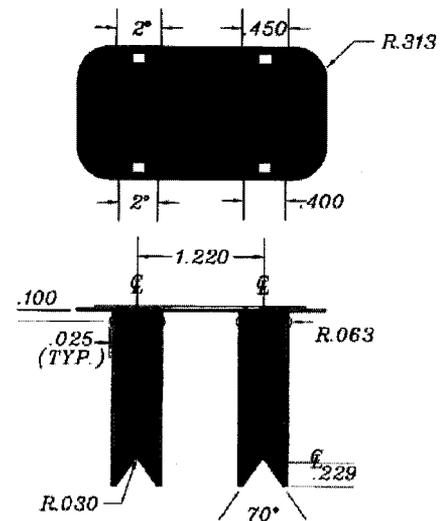
FM-260



FM-260V



FM-260 (ALT.)



FM-260V (ALT.)

NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.

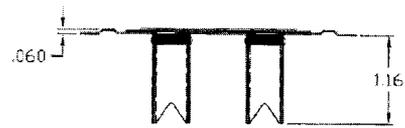
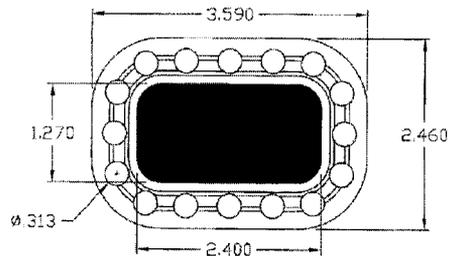
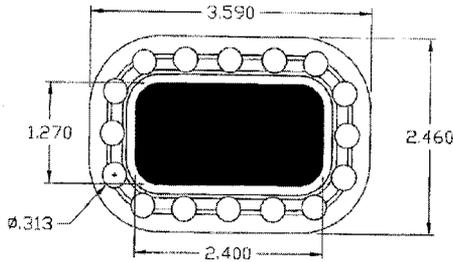


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Tradename: FM-275 Series Base Sheet Fastener

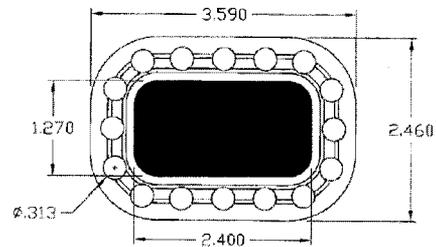
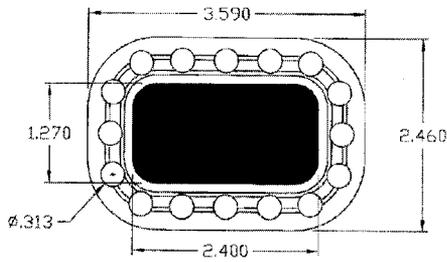
Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and Approved attachment patterns.

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



FM-275

FM-275V



FM-275 (ALT.)

FM-275V (ALT.)

NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.

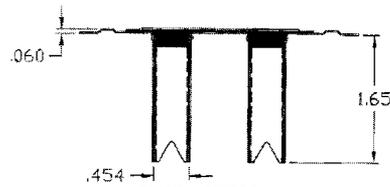
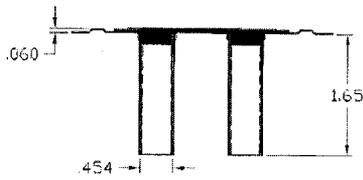
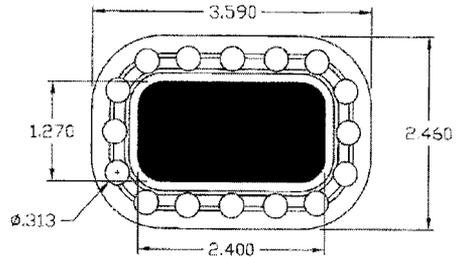
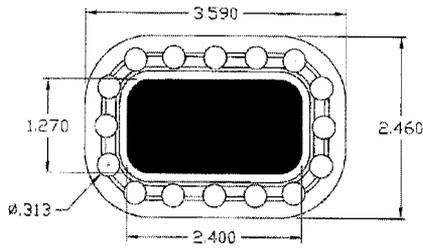


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Tradename: FM-290 Series Base Sheet Fastener

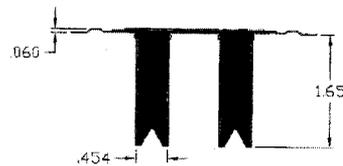
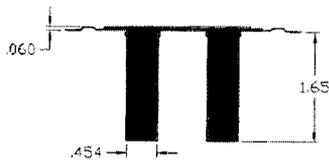
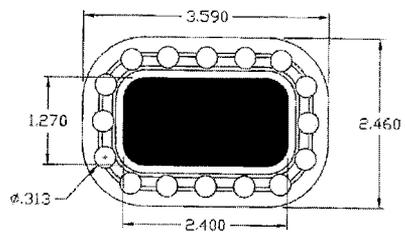
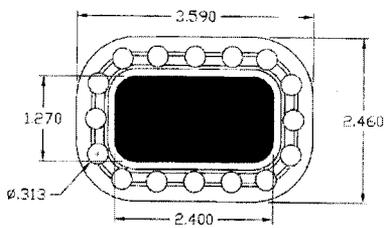
Application: See specific Roof Assembly Product Control Notice of Acceptance for fastener density and Approved attachment patterns.

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



FM-290

FM-290V



FM-290 (ALT.)

FM-290V (ALT.)

NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.



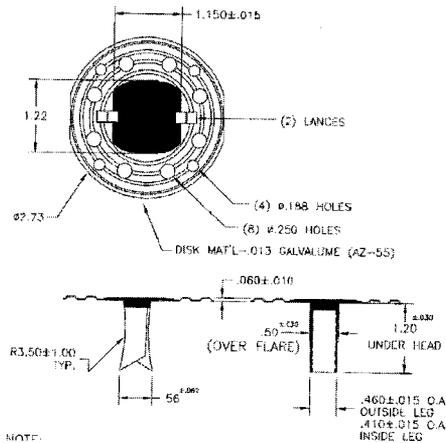
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Tradename: FM-75 Series Assembled Base Sheet Fastener

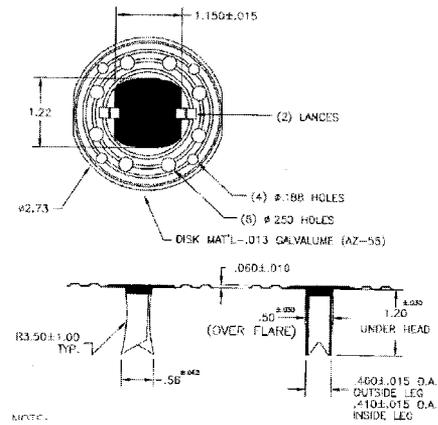
Compatible Plate(s): N/A

Application: FM-75 Base Ply Fastener is an approved and acceptable alternate to the Olympic Assembled CR 1.2" Base Sheet Fastener. FM-75 Base Ply Fasteners may be used in any approved Roof Assembly NOA where the Olympic Assembled CR 1.2" Base Sheet Fastener is referenced. Approved fastening patterns and densities listed in any approved Roof Assembly NOA containing the Olympic Assembled CR 1.2" Base Sheet Fastener shall be acceptable when using FM-75 Base Ply Fasteners.

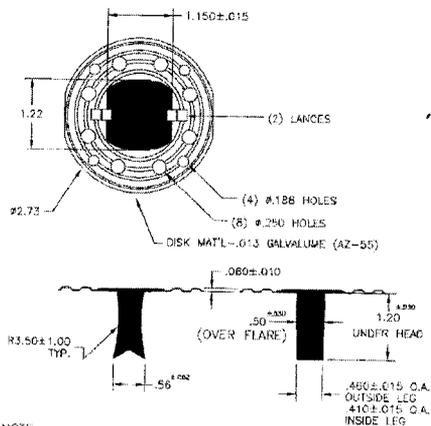
Deck: Approved NVS lightweight concrete, various poured gypsums, existing gypsum. See lightweight concrete deck Notice of Acceptance for Approved deck systems



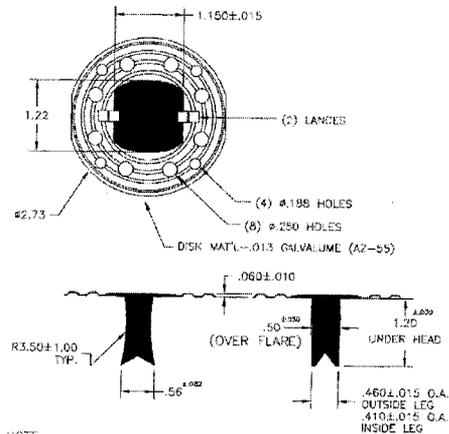
FM-75



FM-75V



FM-75(ALT.)



FM-75V(ALT.)

NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.

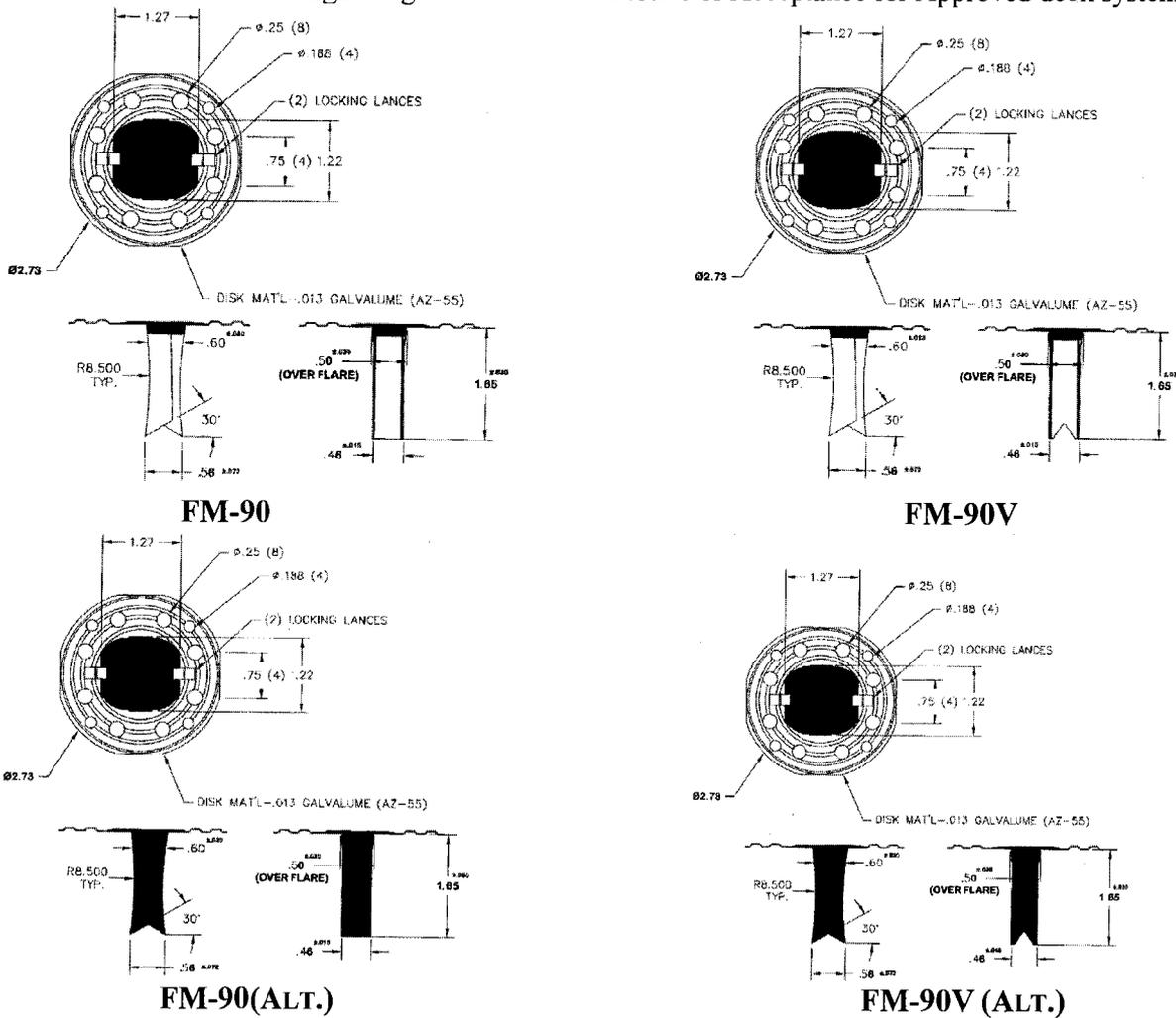


Tradename: FM-90 Assembled Base Sheet Fastener

Compatible Plate(s): N/A

Application: FM-90 Base Ply Fastener is an approved and acceptable alternate to the Olympic Assembled CR 1.7" Base Sheet Fastener. FM-90 Base Ply Fasteners may be used in any approved Roof Assembly NOA where the Olympic Assembled CR 1.7" Base Sheet Fastener is referenced. Approved fastening patterns and densities listed in any approved Roof Assembly NOA containing the Olympic Assembled CR 1.7" Base Sheet Fastener shall be acceptable when using FM-90 Base Ply Fasteners.

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



NOTE: BLACK SHADED AREA REPRESENTS COATED LOCATIONS.



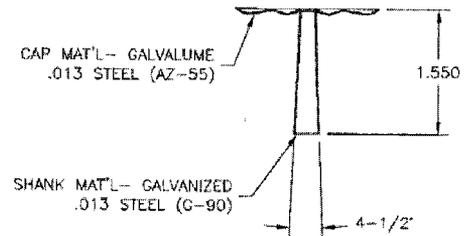
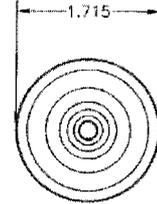
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Tradename: Nail-Tite Type A

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 existing gypsum.

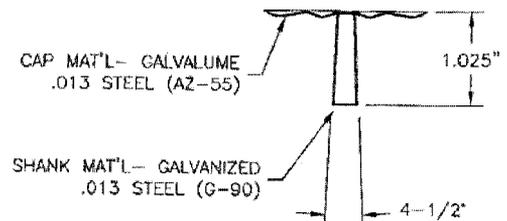
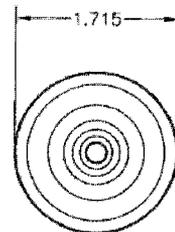


Tradename: Nail-Tite Type R

Compatible Plate(s): N/A

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

Deck: Existing gypsum

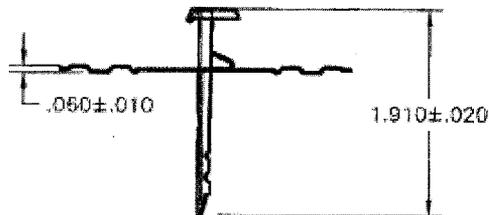
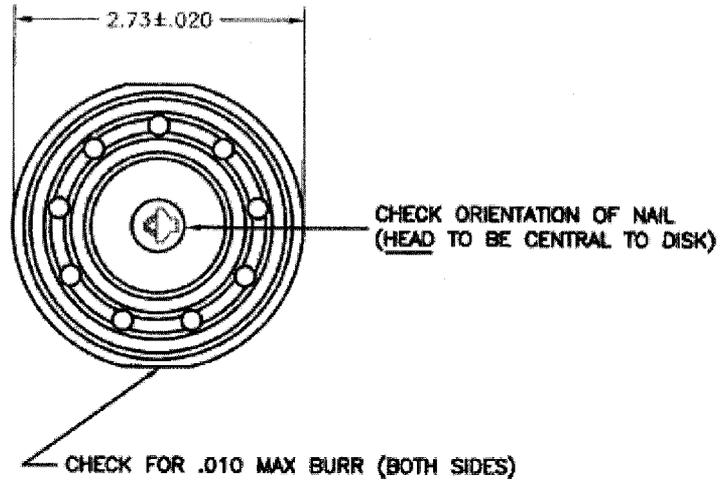


Tradename: Insuldeck Loc-Nail Assembled Base Sheet Fastener

Compatible Plate(s): N/A

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

Deck: Cementitious Wood Fiber.

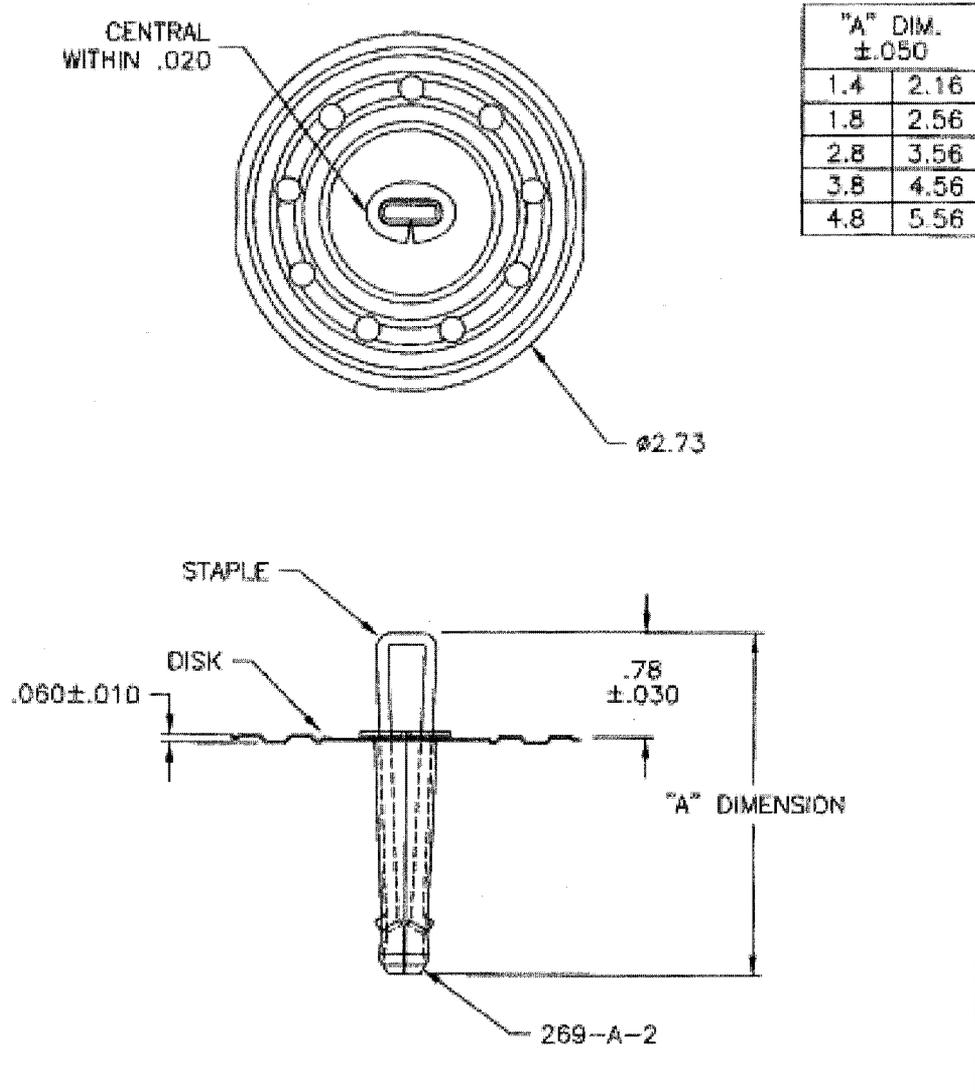


Tradename: Twin Loc-Nail Assembled Base Sheet/Insulation Fastener

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.

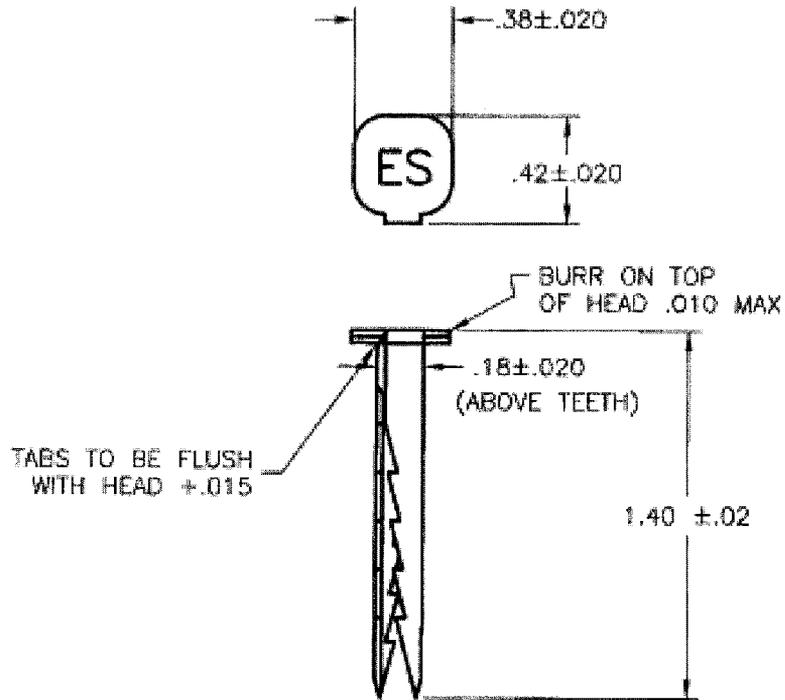


Tradename: Do-All Loc-Nail

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

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

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



END OF THIS ACCEPTANCE



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NOTICE OF ACCEPTANCE:EVIDENCE SUBMITTED
(For File ONLY. Not part of NOA.)