



NEMO|etc.

Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

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EVALUATION REPORT

Altenloh, Brinck & Co. U.S., Inc.
02105 Williams County Road 12-C
Bryan, OH 43506

Evaluation Report A32570.05.12-R2
FL4500-R5

Date of Issuance: 05/15/2012
Revision 2: 05/27/2020

SCOPE:

This Evaluation Report is issued under **Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The product described herein has been designed to comply with the **6th Edition (2017) Florida Building Code** sections noted herein.

DESCRIPTION: Trufast Roof Fastening Components

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO|etc. requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

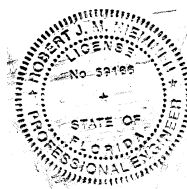
ADVERTISEMENT: The Evaluation Report number preceded by the words "NEMO|etc. Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report 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 Evaluation Report consists of pages 1 through 8.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983



The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 05/27/2020. This does not serve as an electronically signed document.

CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire, or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated, or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO|etc. nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing

Sub-Category: Roofing Fasteners

Compliance Statement: Trufast Roof Fastening Components, as produced by Altenloh, Brinck & Co. U.S., Inc., have demonstrated compliance with the Florida Building Code through testing in accordance with the Standards set forth herein. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

<u>Sections</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1506.6, 1513.1, 1520.4	Corrosion Resistance	TAS 114(E)	1995
1520.4	Withdrawal & Rupture	TAS 117(A), (B), (C)	1995

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
ERD (TST 6049)	Withdrawal & Rupture	4670.10.95-1	10/01/1995
ERD (TST 6049)	Withdrawal & Rupture	4670.07.97-1	07/01/1997
ERD (TST 6049)	Withdrawal & Rupture	4670.03.01-1	09/20/2001
ERD (TST 6049)	Withdrawal	E1060.03.06	03/14/2006
ERD (TST 6049)	Rupture	EO8950.03.08-1	03/28/2008
ERD (TST 6049)	Withdrawal & Rupture	A35880.04.12	04/03/2012
FM (TST 1867)	Withdrawal	0V7A4.AM	06/10/1992
FM (TST 1867)	Corrosion Resistance	0W4A1.AM	01/07/1993
FM (TST 1867)	Withdrawal	3030926	08/07/2007
FM (TST 1867)	Corrosion Resistance	3031797	05/19/2008
FM (TST 1867)	Corrosion Resistance	3061446	03/22/2018
FM (TST 1867)	Corrosion Resistance	PR449339	06/01/2018
FM (TST 1867)	Corrosion Resistance	3040205	06/08/2010
FM (TST 1867)	Corrosion Resistance	PR451159	05/09/2019
FM (TST 1867)	Corrosion Resistance	PR451160	03/12/2020
NEMO (TST 6049)	Withdrawal & Rupture	4-AB-18-001.05.18	05/08/2018
FM (QUA 1860)	Quality Assurance	Inspection Report	11/12/2019

4. PRODUCT DESCRIPTION:
4.1 Fasteners:

<u>Part Name</u>	<u>Substrates</u>	<u>Head Style</u>	<u>Drive</u>
Trufast #12 DP	Wood, Steel	Truss	#3 Phillips
Trufast #12 DPH	Wood, Steel	Hex Washer	¼" Hex
Trufast #14 HD	Wood, Steel, Concrete	Truss	#3 Phillips
Trufast #14 HD Stainless Steel Bi-Metal Fastener	Wood, Steel	Truss	#3 Phillips
Trufast #14 Stainless Steel HD	Wood, Steel, Concrete	Truss	#3 Phillips
Trufast #15 EHD	Wood, Steel	Truss	#3 Phillips
Trufast #21 SHD	Wood, Steel	Truss	#3 Phillips
Trufast #12 Purlin Fastener (square drive)	Steel	Pancake	#3 Square
Trufast Fluted Concrete Nail	Concrete	Pan	N/A
Trufast SIP TP Fastener	Wood	Pancake	T-30 6 Lobe
Trufast SIP LD Fastener	Wood, Steel, Concrete	Pancake	T-30 6 Lobe
Trufast SIP HD Fastener	Steel	Pancake	T-30 6 Lobe
Trufast TL	CWF, Gypsum	Round	#4 Square
Trufast Versa-Fast Fastener	Wood, LWC, Gypsum	Lathe	#2 Phillips

4.2 Plates & Bars:

<u>Part Name</u>	<u>Dimensions</u>
Trufast 2" Metal Seam Plate	0.030" x 2" diameter Galvalume®
Trufast 2" Barbed Metal Seam Plate	0.030" x 2" diameter Galvalume®
Trufast 2.4" Barbed Metal Seam Plate	0.040" x 2.4" diameter Galvalume®
Trufast 2.4" Barbed Metal Seam Plate (14 Barb)	0.040" x 2.4" diameter Galvalume®
Trufast 2.4" Scoop Seam Plate	0.040" x 2.4" diameter Galvalume®
Trufast 2-3/4" Barbed Metal Seam Plate (EHD)	0.040" x 2.75" diameter Galvalume®
Trufast 2-3/4" Barbed Metal Seam Plate (SHD)	0.040" x 2.75" diameter Galvalume®
Trufast 3" Metal Insulation Plate	0.018" x 3" diameter Galvalume®
Trufast 3" Recessed Metal Insulation Plate	0.018" x 3" diameter Galvalume®
Trufast TL 3 in. Insulation Plate	0.017" x 3" diameter Galvalume®
Trufast PVC IW Plate	0.030" x 3.36" diameter AZ-50 Galvanized steel with a proprietary heat-activated adhesive coating; for use with PVC and KEE membranes.
Trufast TPO IW Plate	0.030" x 3.36" diameter AZ-50 Galvanized steel with a proprietary heat-activated adhesive coating; for use with TPO membranes
Trufast Versa-Fast Metal Plate	0.017" x 3" diameter Galvalume®; The plate has one center hole and 8 radially placed holes, each having a minimum 0.255-inch diameter. The plate is intended for use with one or more Trufast Versa-Fast Fasteners.
Trufast Flat Batten Bar	0.047" x 121" long bar or 220 ft long coil; Galvalume®; holes at 6 or 12" o.c.
Trufast Recessed Batten Bar	0.047" x 121" long bar; Galvalume®; holes at 6 or 12" o.c., recessed 1/8"

4.3 Pre-Assembled Components:

<u>Part Name</u>	<u>Substrates</u>	<u>Description</u>
Trufast 3" Pre-Assembled Insulation Plate	Wood, Steel	Trufast #12 DP with Trufast 3" Metal Insulation Plate or Trufast #12 DPH with Trufast 3" Recessed Metal Insulation Plate
Trufast FM-75 Base Sheet Fastener	Aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of dual 1.2 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The 2.7 in. diameter plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 1 in. thick lightweight vermiculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to the fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.
Trufast FM-90 Base Sheet Fastener	Cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of dual 1.7 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The 2.7 in. diameter plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 2 in. thick lightweight vermiculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to the fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.

4.3 Pre-Assembled Components:

Part Name	Substrates	Description
Trufast FM-290 Base Sheet Fastener	Cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded. The fastener consists of tandem dual 1.7 in. long rectangular gripping legs and a square cap that is formed from 0.013 in. thick G-90 hot dipped galvanized steel or cold rolled steel that is coated with a black urethane coating. The rectangular plate is formed from 0.013 in. thick Galvalume steel. The fasteners are designed for use in minimum 2 in. thick lightweight vermiculite, perlite or cellular concrete decks but may be used in sound existing poured gypsum decks if they can be driven without damage to fastener or deck. The fasteners are designed to be installed through a base sheet into roof decks using a Magnetic Driver or Twin Loc Driver.
Trufast Insuldeck Loc-Nail Base Sheet Fastener	Cementitious wood fiber	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of a 1-7/8 in. long dual shank and integral head that are formed from 0.022 in. thick Galvalume coated steel. The round 2.7 in. diameter plate is stamped from 0.013 in. thick Galvalume coated steel. The fasteners are designed to be installed through a base sheet or thin insulation into cementitious wood fiber roof decks using an Insuldeck Driver.
Trufast Twin Loc-Nail Assembled Fastener	Cementitious wood fiber, cellular or aggregate lightweight concrete, gypsum	Two piece factory assembled fastener and plate formed from stamped and folded steel. The fastener consists of a 1.4 in., 1.8 in., 2.8 in., 3.8 in. or 4.8 in. long tapered oval Galvalume or G-90 galvanized steel tube factory assembled to a 2.7 in. diameter Galvalume steel plate and a 0.080 in. diameter carbon or stainless steel locking staple. The fasteners are driven with a Twin Loc-Nail Driver by placing a fastener on the face of the driver with the exposed locking staple positioned in the slot in the face of the driver and driving the fastener into the roof deck with a single impact. A second impact drives the locking staple through the tube/plate assembly until it is flush with the top of the plate, forcing the legs of the locking staple out of the bottom of the tube and into the deck.

TABLE 1: TYPICAL PERFORMANCE, STATIC WITHDRAWAL, ULTIMATE LOAD (LBF)

Fastener	Substrate							
	Min. 19/32" plywood	Min. 22 ga., Grade 50 Steel	Min. 2,500 psi concrete	Min. 1/8" thick steel	Min. 1/4" thick steel	Tectum®	Poured Gypsum	Cellular Lightweight Concrete
Trufast #12 DP or DPH	556	463	N/A	N/A	N/A	N/A	N/A	N/A
Trufast #14 HD	546	522	760	N/A	N/A	N/A	N/A	N/A
Trufast #14 HD Stainless Steel Bi-Metal Fastener	608	408	N/A	N/A	N/A	N/A	N/A	N/A
Trufast #14 Stainless Steel HD	N/A	527	563	N/A	N/A	N/A	N/A	N/A
Trufast #15 EHD	628	706	834	N/A	N/A	N/A	N/A	N/A
Trufast #21 SHD	N/A	870	N/A	N/A	N/A	N/A	N/A	N/A
Trufast #12 Purlin Fastener (square drive)	N/A	N/A	N/A	1,975	3,753	N/A	N/A	N/A
Trufast Fluted Concrete Nail	N/A	N/A	1621	N/A	N/A	N/A	N/A	N/A
Trufast SIP TP Fastener	512	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trufast SIP LD Fastener	540	490	899	N/A	N/A	N/A	N/A	N/A
Trufast SIP HD Fastener	N/A	N/A	N/A	2,043	5,320	N/A	N/A	N/A
Trufast TL	N/A	N/A	N/A	N/A	N/A	505 (1.5" embedment)	400 (7/16" pilot, 1.5" embedment)	N/A
Trufast FM-75 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	60	60

TABLE 1: TYPICAL PERFORMANCE, STATIC WITHDRAWAL, ULTIMATE LOAD (LBF)

Fastener	Substrate							
	Min. 19/32" plywood	Min. 22 ga., Grade 50 Steel	Min. 2,500 psi concrete	Min. 1/8" thick steel	Min. 1/4" thick steel	Tectum®	Poured Gypsum	Cellular Lightweight Concrete
Trufast FM-90 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	60	107
Trufast FM-290 Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	N/A	N/A	164 (200 psi LWC)
Trufast Insuldeck Loc-Nail Base Sheet Fastener	N/A	N/A	N/A	N/A	N/A	64	N/A	N/A
Trufast Twin Loc-Nail Assembled Fastener (1.8-inch)	N/A	N/A	N/A	N/A	N/A	137	263 (260 psi gypsum)	No data
Trufast Versa-Fast Fastener through Versa-Fast Metal Plate [one (1) 2.25" long screw per plate]	N/A	N/A	N/A	N/A	N/A	N/A	143 (514 psi gypsum)	216 (340 psi Celcore MF Cellular Concrete)

**TABLE 2: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFast 3" METAL INSULATION PLATE OR TRUFast TL 3 IN. INSULATION PLATE WITH BASE SHEETS**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
Generic	ASTM D226, Type II Felt	Hot-asphalt	224
CertainTeed, LLC	Glasbase	Hot-asphalt	155
	Flexiglas Base	Hot-asphalt	253
	All Weather/Empire Base	Hot-asphalt	215
	Flintlastic 20 Base	Hot-asphalt	303
	Flintlastic Poly SMS Base	Hot-asphalt	372
	Yosemite Venting Base	Hot-asphalt	248
	Flintlastic SA NailBase	Self-adhering	278
Firestone Building Products Company	MB Base M	Hot-asphalt	202
	Venting Base	Hot-asphalt	227
	SBS Base	Hot-asphalt	270
GAF	GAFLAS #75 Base Sheet	Hot-asphalt	184
	GAFLAS #80 Ultima Base Sheet	Hot-asphalt	152
	GAFLAS Stratavent Eliminator (Nailable)	Hot-asphalt	155
	GAFLAS FlexPly 6	Hot-asphalt	209
	Liberty MA Mechanically Attached Base Sheet	Self-adhering	300
The Garland Company	HPR Glasbase	Hot-asphalt	204
	HPR Premium Glasbase	Hot-asphalt	224
	HPR Tri-Base Plus	Hot-asphalt	463
Johns Manville	PermaPly 28	Hot-asphalt	185
	Ventsulation	Hot-asphalt	258
	GlasPly Premier	Hot-asphalt	216
	DynaBase	Hot-asphalt	266
	JM APP Base	Torch-applied	208
Derbigum USA	PRS Glass Base	Hot-asphalt	228
	PRS Modified Base Sheet	Hot-asphalt	230
	PRS Vented Base	Hot-asphalt	202
	Derbibase	Torch-applied	241
	Derbibase Ultra	Torch-applied	232

**TABLE 2: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFast 3" METAL INSULATION PLATE OR TRUFast TL 3 IN. INSULATION PLATE WITH BASE SHEETS**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
Siplast	Parabase	Hot-asphalt	251
	Parabase Plus	Hot-asphalt	254
Soprema	Modified Sopra-G	Hot-asphalt	216
	Soprabase	Hot-asphalt	380
U.S. Ply, Inc.	USP Base	Hot-asphalt	230
	USP NVB	Hot-asphalt	202
	DuraFlex 30 SBS Base	Hot-asphalt	199
	DuraFlex 60 SBS Base	Hot-asphalt	330
	DuraFlex SBS PolyBase	Hot-asphalt	368

**TABLE 3: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFast FM-75, FM-90 OR INSULDECK LOC-NAIL BASE SHEET FASTENER WITH BASE SHEETS**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
CertainTeed, LLC	Glasbase	Hot-asphalt	212
	Flintlastic Poly SMS Base	Hot-asphalt	222
Firestone Building Products Company	MB Base	Hot-asphalt	175
GAF	GAFLAS #75 Base Sheet	Hot-asphalt	206
	GAFLAS Stratavent Eliminator (Nailable)	Hot-asphalt	178
Johns Manville	Ventsulation	Hot-asphalt	218
Siplast	Parabase	Hot-asphalt	202
	Parabase Plus	Hot-asphalt	200
Soprema	Sopralene 180 Sanded 2.2	Hot-asphalt	214
Tremco Incorporated	BURMastic Glass Ply	Hot-asphalt	228
	BURMastic Composite Ply	Hot-asphalt	228

**TABLE 4: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFast TWIN LOC-NAIL ASSEMBLED FASTENER WITH BASE SHEETS**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
CertainTeed, LLC	Glasbase	Hot-asphalt	179
	Flexiglas Base	Hot-asphalt	240
	All Weather / Empire Base	Hot-asphalt	249
Firestone Building Products Company	MB Base	Hot-asphalt	256
GAF	GAFLAS #75 Base Sheet	Hot-asphalt	234
	GAFLAS Stratavent Eliminator (Nailable)	Hot-asphalt	238
Johns Manville	PermaPly 28	Hot-asphalt	275
	Ventsulation	Hot-asphalt	228
	DynaBase	Hot-asphalt	302
Siplast	Parabase	Hot-asphalt	217
	Parabase Plus	Hot-asphalt	279
Soprema	Modified Sopra-G	Hot-asphalt	206

**TABLE 5: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFAST FM-290 BASE SHEET FASTENER WITH BASE SHEETS**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
CertainTeed, LLC	Glasbase	Hot-asphalt	256
	Flexiglas Base	Hot-asphalt	267
	Flintlastic Poly SMS Base	Hot-asphalt	372
	Flintlastic SA NailBase	Self-adhering	156
Firestone Building Products Company	APP 160	Torch-applied	364
	SBS Base	Hot-asphalt	326
	SBS Glass Torch Base	Torch-applied	255
	SBS Poly Torch Base	Torch-applied	346
GAF	GAFLAS #75 Base Sheet	Hot-asphalt	263
	GAFLAS #80 Ultima Base Sheet	Hot-asphalt	198
	GAFLAS Stratavent Eliminator (Nailable)	Hot-asphalt	263
	Liberty MA Mechanically Attached Base Sheet	Self-adhering	163
The Garland Company	HPR Glasbase	Hot-asphalt	280
	HPR Tri-Base Plus	Torch-applied	451
Johns Manville	PermaPly 28	Hot-asphalt	273
	Ventsulation	Hot-asphalt	248
	DynaBase	Hot-asphalt	306
Derbigum USA	Derbibase	Torch-applied	260
Polyglass USA, Inc.	Elastobase V	Torch-applied	311
	Elastobase V (poly surface)	Self-adhering	177
Siplast	Parabase	Hot-asphalt	293
Soprema	Modified Sopra-G	Hot-asphalt	254
	Soprabase	Self-adhering	235
Tarco Roofing	EasyBase	Self-adhering	185
Tremco Incorporated	BURMastic Glass Ply	Hot-asphalt	283
	BURMastic Composite Ply	Hot-asphalt	462
U.S. Ply, Inc.	USP Base	Hot-asphalt	287
	USP NVB	Hot-asphalt	280
	DuraFlex 30 SBS Base	Hot-asphalt	263

**TABLE 6: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFAST VERSA-FAST FASTENER THROUGH VERSA-FAST METAL PLATE (1 SCREW PER PLATE)**

Manufacturer	Base Sheet	Overlying Application	Rupture (lbf)
GAF	GAFLAS #75 Base Sheet	None	147
Soprema	SOPRAPHIX Base 613	None	329
	SOPRAPHIX Base 613	Heat-welded	427
Tremco Incorporated	POWERply Heavy Duty Base Sheet	None	467

**TABLE 7: TYPICAL PERFORMANCE, RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TRUFAST 2" BARBED METAL SEAM PLATES WITHIN HEAT-WELDED SIDE LAP**

Manufacturer	Base Membrane	Overlying Application	Rupture (lbf)
CertainTeed, LLC	Flintlastic Poly SMS or Ultra Poly SMS Base	Heat-welded sidelap	330
Johns Manville	DynaLastic 180 S	Heat-welded sidelap	500
Soprema	SOPRAPHIX Base 612	Heat-welded sidelap	515

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this Evaluation Report, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.
- 5.2 This Evaluation Report is not for use in FBC HVHZ jurisdictions.
- 5.3 **Trufast Roof Fastening Components** are used within roofing systems holding Florida Statewide Product Approval. The products are for use in those roof assemblies that call-out the products listed herein by name. The performance data noted herein may be used by a qualified design professional in conjunction with system performance data for rational analysis and product substitution purposes on a project-by-project, Local Approval basis.
- 5.4 For mechanically attached insulation or membrane over existing roof substrates, fasteners shall be tested in the existing substrate for withdrawal resistance. A qualified design professional shall review the data for comparison to the minimum requirements for the system. Testing and analysis shall be in accordance with **ANSI/SPRI FX-1** or **Testing Application Standard TAS 105**.
- 5.5 All products in the roof assembly shall have quality assurance audit in accordance with **F.A.C. Rule 61G20-3**.

6. INSTALLATION:

Fasteners, plates and batten bars shall be installed in accordance the manufacturer's published installation instructions and the roof assembly Florida Statewide or Local Product Approval.

7. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

8. MANUFACTURING LOCATIONS:

Bryan, OH

9. QUALITY ASSURANCE ENTITY:

FM Approvals – QUA1860; (781) 255-4783

- END OF EVALUATION REPORT -