



NEMO|etc.

Certificate of Authorization #32455
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ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

SRS DISTRIBUTION, INC

7440 S. Hwy 121
McKinney, TX 75070
(419) 636-6715

PEER-ABSRS-001.A.R1

FL38089-R1 (NON-HVHZ)

Date of Issuance: 03/29/2021

Revision 1: 08/29/2023

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. 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 **8th Edition (2023) Florida Building Code** [sections noted herein](#).

DESCRIPTION: TOP SHIELD PRO Roof Fastening Components (NON-HVHZ)

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

CONTINUED COMPLIANCE: This PEER 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 PEER 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 PEER relative to updated Code requirements with each Code Cycle.

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

INSPECTION: Upon request, a copy of this entire PEER 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 PEER consists of pages 1 through 4.

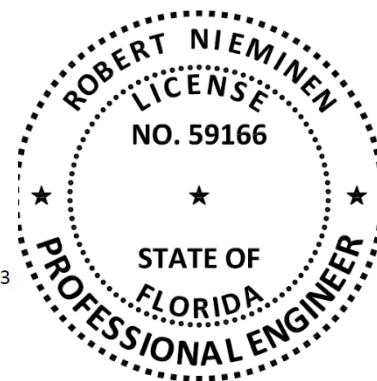
Prepared by:

Digitally signed by
Robert Nieminen
Date: 2023.08.29
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This item has been digitally signed and sealed by Robert Nieminen, P.E.

Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.

Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



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 PEERs 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 PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING COMPONENT EVALUATION:
1. SCOPE:

Product Category: Roofing
Sub-Category: Roofing Fasteners
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: TOP SHIELD PRO Roof Fastening Components, as produced by SRS DISTRIBUTION, have demonstrated compliance the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with the following Standards. Compliance is subject to the [Installation Requirements](#) and [Limitations of Use](#) set forth herein.

2. STANDARDS:

<u>Sections</u>	<u>Property</u>	<u>Standard</u>	<u>Year</u>
1506.6(2), 1513.1, 1520.4, 1523.6.5.2.9	Corrosion Resistance	TAS 114(E)	2011 (from 2023 Code)
1520.4, 1523.6.5.2.9	Withdrawal & Rupture	TAS 117(A), (B), (C)	1995 (from 2023 Code)

3. REFERENCES:

<u>Entity</u>	<u>Examination</u>	<u>Reference</u>	<u>Date</u>
NEMO	PEER	PEER-AB-001.A	08/29/2023
NEMO	Traceability	FBC Cross-Listing Agreement	02/09/2021
FM (QUA 1860)	Quality Assurance	PR459420	02/04/2021
FM (QUA 1860)	Quality Assurance	Inspection Report	06/05/2020
FM (QUA 1860)	Quality Assurance	Florida BCIS	Current

4. PRODUCT DESCRIPTION:
4.1 FASTENERS:

<u>Part Name</u>	<u>Substrates</u>	<u>Head Style</u>	<u>Drive</u>
TOP SHIELD PRO DP ROOFING FASTENER	Wood, Steel	Truss	#3 Phillips
TOP SHIELD PRO HD ROOFING FASTENER	Wood, Steel, Concrete	Truss	#3 Phillips
TOP SHIELD PRO EHD ROOFING FASTENER	Wood, Steel	Truss	#3 Phillips

4.2 PLATES & BARS:

<u>Part Name</u>	<u>Dimensions</u>
TOP SHIELD PRO 2" METAL SEAM PLATE	0.030" x 2" diameter Galvalume®
TOP SHIELD PRO BARBED STEEL SEAM PLATE	0.040" x 2.4" diameter Galvalume®
TOP SHIELD PRO STEEL INSULATION PLATE	0.018" x 3" diameter Galvalume®

TABLE 1: TYPICAL PERFORMANCE, STATIC WITHDRAWAL, ULTIMATE LOAD (LBF)
WOOD, STEEL AND STRUCTURAL CONCRETE

FASTENER	SUBSTRATE			
	19/32" OSB	19/32" PLYWOOD	22 GA., GRADE 40 STEEL	3,000 PSI CONCRETE
TOP SHIELD PRO DP	475	565	471	N/A
TOP SHIELD PRO HD	N/A	586	492	636 (1.25" embed)
TOP SHIELD PRO EHD	N/A	618	668	475 (1.25" embed)

TABLE 2A: TYPICAL PERFORMANCE, BASE SHEET RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TOP SHIELD PRO STEEL INSULATION PLATE

MANUFACTURER	BASE SHEET	OVERLYING APPLICATION	RUPTURE (LBF)
Generic	ASTM D226, Type II Felt	Hot-asphalt	224
CertainTeed, LLC	Glasbase Base Sheet	Hot-asphalt	189
	All Weather/Empire Base Sheet	Hot-asphalt	215
	Flintlastic 20 Base	Hot-asphalt	303
	Flintlastic Poly SMS Base	Hot-asphalt	372
	Flintlastic SA NailBase	Self-adhering	278
GAF	GAFGLAS #75 Base Sheet	Hot-asphalt	180
	GAFGLAS #80 Ultima Base Sheet	Hot-asphalt	152
	GAFGLAS Stratavent Eliminator (Nailable)	Hot-asphalt	155
	GAFGLAS FlexPly 6	Hot-asphalt	209
	Liberty MA Mechanically Attached Base Sheet	Self-adhering	300
Holcim Solutions and Products U.S. LLC	Elevate MB Base M	Hot-asphalt	180
	Elevate SBS Base	Hot-asphalt	270
Johns Manville	PermaPly 28	Hot-asphalt	197
	Ventsulation	Hot-asphalt	258
	GlasPly Premier	Hot-asphalt	216
	DynaBase	Hot-asphalt	266
	JM APP Base	Torch-applied	208
Performance Roof Systems, A SOPREMA Group Company	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
Siplast	Parabase	Hot-asphalt	251
	Parabase Plus	Hot-asphalt	254
SOPREMA	Modified SOPRA-G	Hot-asphalt	222
	Soprabase	Hot-asphalt	380
The Garland Company	HPR Glasbase	Hot-asphalt	186
	HPR Premium Glasbase	Hot-asphalt	224
	HPR Tri-Base Plus	Hot-asphalt	463
Tremco CPG	BURmastic Composite Ply HT	Hot-asphalt	438

TABLE 2B: TYPICAL PERFORMANCE, BASE SHEET RUPTURE (PULL-THROUGH), ULTIMATE LOAD (LBF)
TOP SHIELD PRO BARBED STEEL SEAM PLATE WITHIN HEAT-WELDED SIDE LAP

TOP SHIELD PRO EHD WITH....	MANUFACTURER	BASE MEMBRANE	OVERLYING APPLICATION	RUPTURE (LBF)
TOP SHIELD PRO BARBED STEEL SEAM PLATE	CertainTeed, LLC	Flintlastic Ultra Poly SMS Base Sheet	5-inch wide heat-welded sidelap	541
	Johns Manville	DynaFast 180 HW		693
	SOPREMA	SOPRAPHIX Base 612		585

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 PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER is not for use in FBC High Velocity Hurricane Zone jurisdictions, as defined in FBC Chapter 2 (Broward and Miami-Dade Counties).
- 5.3 **TOP SHIELD PRO 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 PEER -