



EVALUATION REPORT

FLORIDA BUILDING CODE 8TH EDITION (2023)

Manufacturer: TRIMAK BUILDING COMPONENTS
2502 Frontage Park Place
Plant City, FL 33563
(813) 800-4766
www.trimakbuildings.com

Issued June 20, 2025

Manufacturing: Plant City, FL

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 8th Edition (2023)
Code Sections: 1504.3, 1504.7
Properties: Wind Resistance

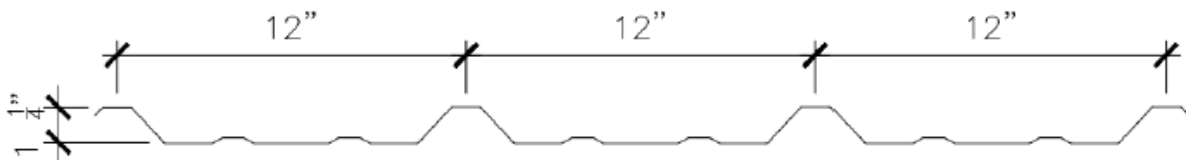
REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	2564T0001	ASTM E 1592	2005(2017)
PRI Construction Materials Technologies (TST5878)	2564T0002	FM 4471	1992
PRI Construction Materials Technologies (TST5878)	2564T0003	ASTM E 283	2004(2012)
		ASTM E 331	2000(2009)
PRI Construction Materials Technologies (TST5878)	2564T0007-1	ASTM E 1592	2005(2017)
PRI Construction Materials Technologies (TST5878)	2564T0008-1	ASTM E 1592	2005(2017)
PRI Construction Materials Technologies (TST5878)	2564T0009	FM 4471	1992

PRODUCT DESCRIPTION

26 ga. Steel PBR

Profile: 1 1/4-inch ribs at 12-inches o.c.; Maximum 36-inch coverage
Description: Through fastened roof panel
Material: Min. 26 ga. 0.0199-inch steel (F_y = min. 100 ksi);
Shall conform with FBC Section 1507.4.3



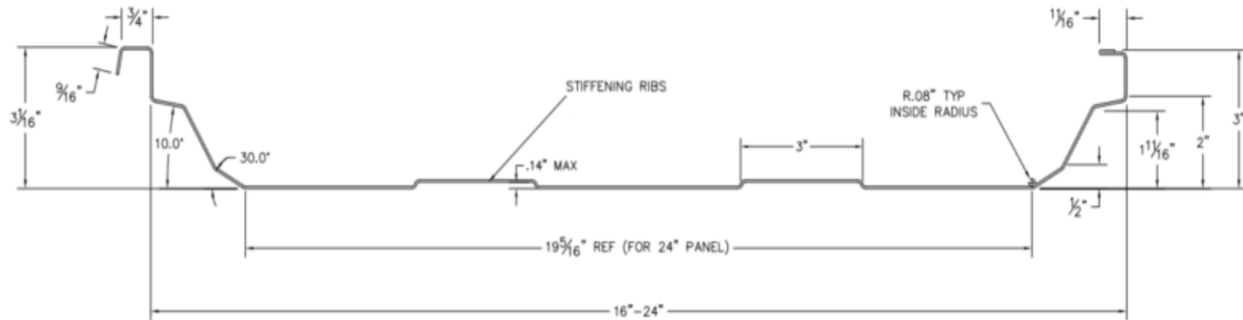


24 ga. Steel Trapezoidal Standing Seam

Profile: 3-inch standing seam with stiffening ribs; Maximum 24-inch coverage

Description: Standing seam roof panel

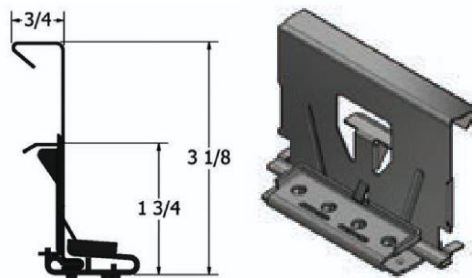
Material: Min. 24 ga. 0.0219-inch steel ($F_y = \text{min. } 50 \text{ ksi}$);
Shall conform with FBC Section 1507.4.3



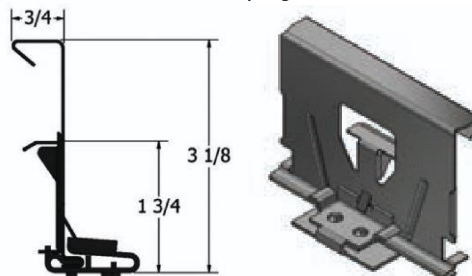
FASTENING COMPONENTS

Fastening components shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6, and shall penetrate through the structural purlins a min. 3/4-inch.

#12-24 SDS x 1 1/4-inch:	#12-24 x min. 1 1/4-inch HWH screw, SteelZIP S.C.A.M.P., SD3 point, Direct Metals Inc.
1/4-14 Stitch x 7/8-inch:	1/4"-14 x 7/8-inch SteelZIP S.C.A.M.P. Stitch HWH screws, SD1 point, Direct Metals Inc.
1/4-14 SDS x 1 1/4-inch:	1/4"-14 x min. 1 1/4-inch HWH Impax screws, SD3 point, SFS USA
20 Ga. Clip A:	4 1/4-inch wide floating clip; min. 20 ga. galvanized steel tab; min. 16ga. galvanized steel base; Logan Stamping Part No. NC-34526-6-S

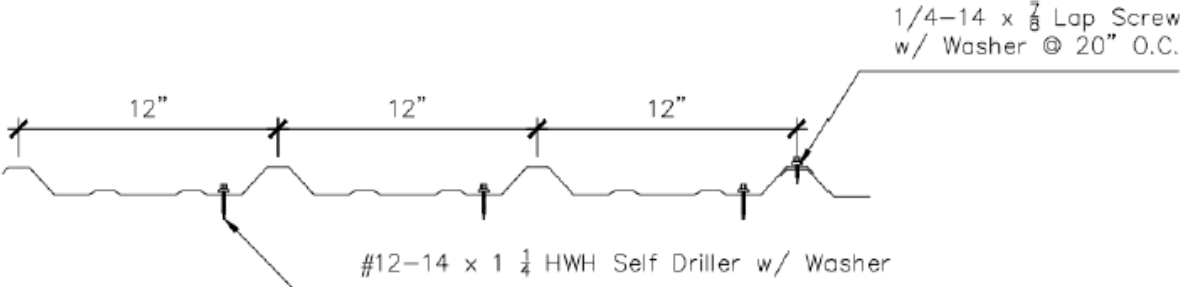


20 Ga. Clip B:	4 1/4-inch wide floating clip; min. 20 ga. galvanized steel tab; min. 16ga. galvanized steel base; Logan Stamping Part No. NC-34528-3-S
-----------------------	---

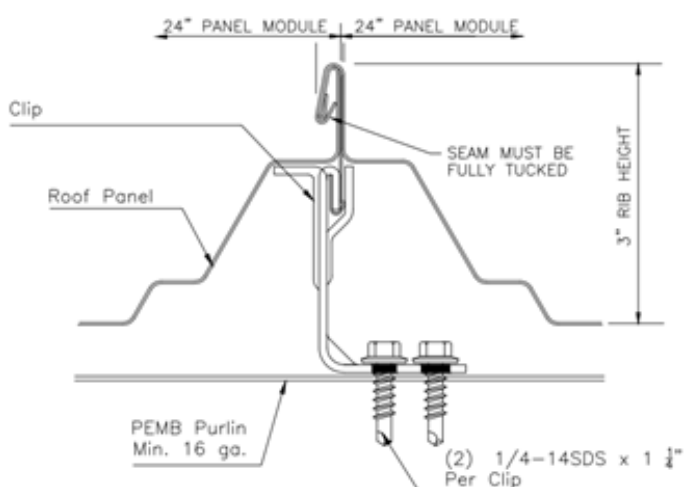




APPROVED ASSEMBLIES

System 1: 26 ga. Steel PBR			
Slope:	Shall be in accordance with FBC Section 1507.4.2.		
Purlins:	Minimum 16 ga., ASTM A653 steel purlins with minimum 3-inch wide bearing surface shall be spaced as stated in the table below for the desired Maximum Design Pressure. Purlins shall be designed by others in accordance with FBC requirements.		
Attachment:	#12-14 SDS x min. 1 1/4-inch screws shall be installed across the width of the panel adjacent to the rib at each purlin as shown below. Panel side laps shall be stitched with 1/4-14 Stitch x 7/8-inch screws a maximum of 20-inch o.c. as shown below.		
Maximum Design Pressures: <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>	Maximum Purlin Spacing	Maximum Positive Pressure	Maximum Negative Pressure
	60-inch o.c.	+45 psf	-35 psf
	54-inch o.c.	+47 psf ¹	-39 psf ¹
	48-inch o.c.	+51 psf ¹	-41 psf ¹
	42-inch o.c.	+55 psf ¹	-45 psf ¹
	36-inch o.c.	+60 psf ¹	-52 psf ¹
	30-inch o.c.	+68 psf ¹	-60 psf ¹
	24-inch o.c.	+79 psf ¹	-72 psf ¹
	18-inch o.c.	+97 psf ¹	-93 psf ¹
	12-inch o.c.	+135 psf	-135 psf
			

Note(s): 1) Values interpolated from testing at 12-inch and 60-inch spans

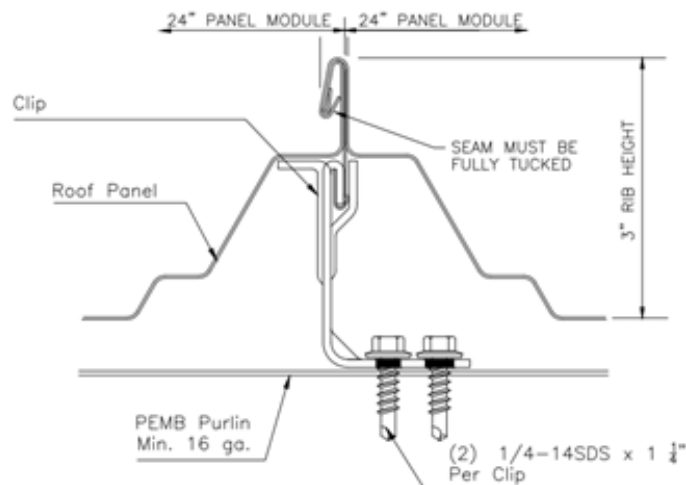
System 2: 24 ga. Steel Trapezoidal Standing Seam			
Slope:	Shall be in accordance with FBC Section 1507.4.2.		
Purlins:	Minimum 16 ga., ASTM A653 steel purlins with minimum 3-inch wide bearing surface shall be spaced as stated in the table below for the desired Maximum Design Pressure. Purlins shall be designed by others in accordance with FBC requirements.		
Attachment:	20 Ga. Clip A with two (2) 1/4-14 SDS x min. 1 1/4-inch screws shall be installed in the panel seam at each purlin as shown below. The panels shall be seamed 180° along the panel length.		
Maximum Design Pressures: <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>	Maximum Purlin Spacing	Maximum Positive Pressure	Maximum Negative Pressure
	60-inch o.c.	+45 psf	-35 psf
	54-inch o.c.	+48 psf¹	-36 psf¹
	48-inch o.c.	+52 psf¹	-37 psf¹
	42-inch o.c.	+56 psf¹	-39 psf¹
	36-inch o.c.	+62 psf¹	-42 psf¹
	30-inch o.c.	+71 psf¹	-45 psf¹
	24-inch o.c.	+84 psf¹	-50 psf¹
	18-inch o.c.	+106 psf¹	-58 psf¹
	12-inch o.c.	+150 psf	-75 psf
			

Note(s): 1) Values interpolated from testing at 12-inch and 60-inch spans



System 3: 24 ga. Steel Trapezoidal Standing Seam

Slope:	Shall be in accordance with FBC Section 1507.4.2.		
Purlins:	Minimum 16 ga., ASTM A653 steel purlins with minimum 3-inch wide bearing surface shall be spaced as stated in the table below for the desired Maximum Design Pressure. Purlins shall be designed by others in accordance with FBC requirements.		
Existing Roofing:	Minimum 26 ga. steel, 1 1/4-inch ribs at 12-inches o.c., 36-inch coverage, through fastened metal panel roofing		
Attachment:	20 Ga. Clip B with two (2) 1/4-14 SDS x min. 1 1/4-inch screws placed in the pan of the existing roof panel shall be installed in the panel seam and anchored into each purlin as shown below. The panels shall be seamed 180° along the panel length.		
Maximum Design Pressures: <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>	Maximum Purlin Spacing	Maximum Positive Pressure	Maximum Negative Pressure
	60-inch o.c.	+45 psf	-35 psf
	54-inch o.c.	+48 psf ¹	-36 psf ¹
	48-inch o.c.	+52 psf ¹	-37 psf ¹
	42-inch o.c.	+56 psf ¹	-39 psf ¹
	36-inch o.c.	+62 psf ¹	-42 psf ¹
	30-inch o.c.	+71 psf ¹	-45 psf ¹
	24-inch o.c.	+84 psf ¹	-50 psf ¹
	18-inch o.c.	+106 psf ¹	-58 psf ¹
	12-inch o.c.	+150 psf	-75 psf



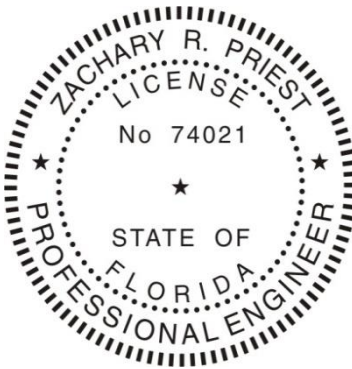


LIMITATIONS

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck and the roof deck attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
4. Roof systems are evaluated for wind resistance as non-structural roof cladding only. Where structural applications are desired, Chapter 16 structural load evaluations shall be provided by a licensed design professional to the satisfaction of the Authority Having Jurisdiction.
5. Reroofing shall be in accordance with FBC Section 1511.
6. Installation of the evaluated products shall comply with this report, the FBC and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
7. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 6/20/2025.

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

Digitally signed by Zachary R. Priest
CREEK Technical Services, LLC

2025.06.20
15:29:09
-04'00'

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

END OF REPORT