



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
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	2564T0004	UL 1897	2015
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	2564T0005	FM 4471	1992
PRI Construction Materials Technologies (TST5878)	2564T0006	UL 1897	2015
		UL 580	2006

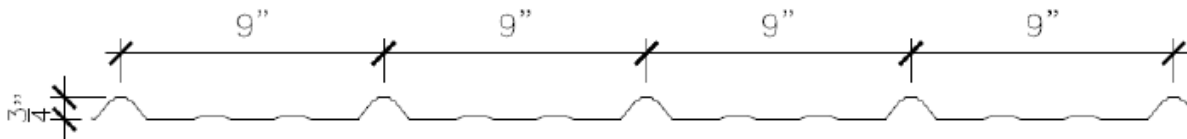
PRODUCT DESCRIPTION

Mast-R-Rib

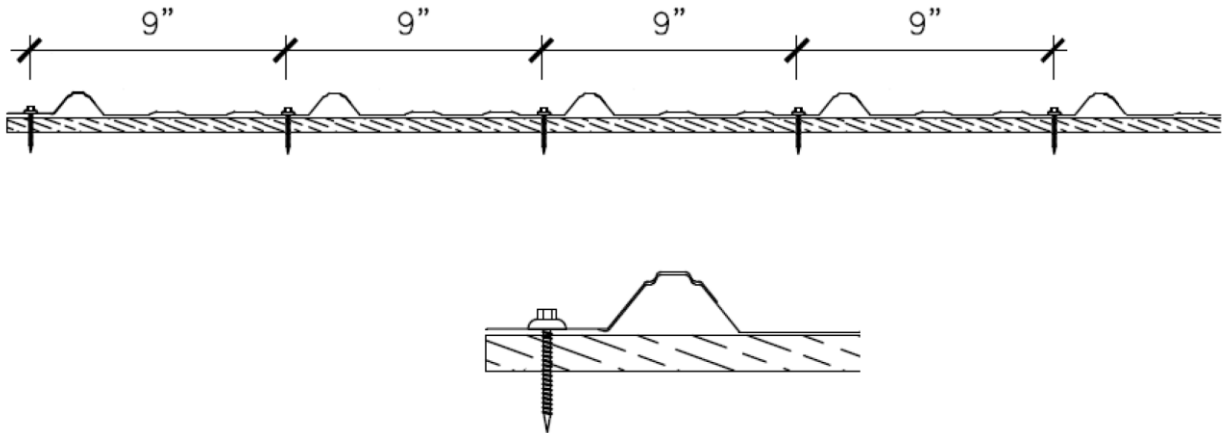
Profile: 3/4-inch rib at 9-inches o.c.; Maximum 36 in. coverage

Description: Non-structural, through fastened roof panel

Material: Min. 26 ga. 0.0199" steel (F_y = min. 100 ksi);
Shall conform with FBC Section 1507.4.3

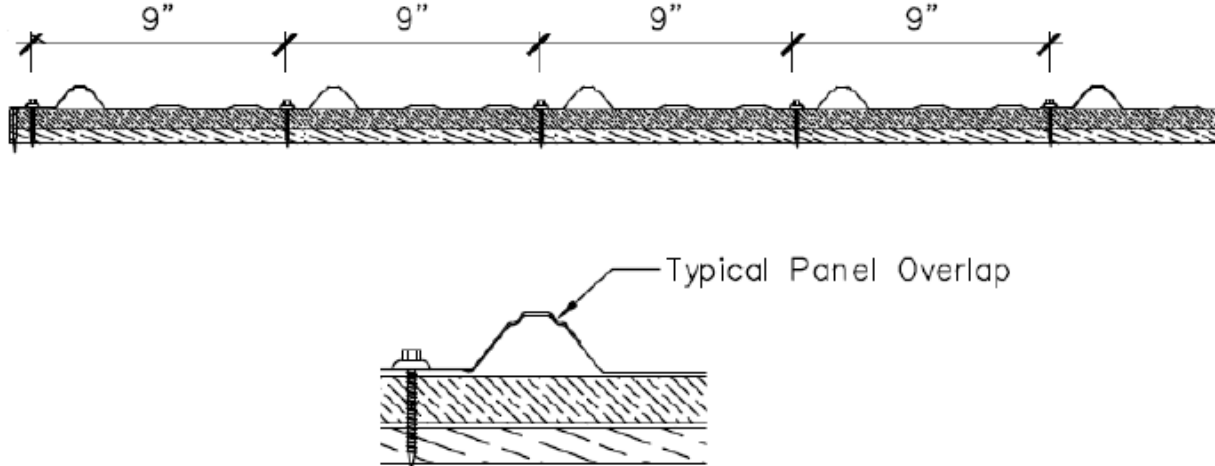




System 1: Direct-to-Deck									
Slope:	Shall be in accordance with the FBC.								
Roof Deck:	Solid or closely fitted min. 15/32-inch 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24-inch span; Designed by others in accordance with FBC requirements.								
Underlayment:	In accordance with the FBC.								
Attachment:	#12 x min. 1.5-inch SteelZIP S.C.A.M.P. Self Drill HWH screws spaced 24-inches o.c. along the panel rib as shown below; Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6.								
									
Maximum Design Pressures:	-71 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>								
Maximum Mean Roof Heights Slopes 2:12 – 12:12									
Exposure	Basic Wind Speed (mph)								
	≤120	130	140	150	160	170	180	190	200
Zone 1 for Gable/Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	45 ft	30 ft	20 ft
C	60 ft	60 ft	60 ft	55 ft	29 ft	16 ft	NA	NA	NA
D	60 ft	60 ft	49 ft	22 ft	NA	NA	NA	NA	NA
Zone 2 for Gable Roofs and Zones 2 & 3 for Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	38 ft	24 ft	16 ft	NA	NA
C	60 ft	57 ft	27 ft	NA	NA	NA	NA	NA	NA
D	58 ft	23 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	38 ft	22 ft	NA	NA	NA	NA	NA
C	33 ft	15 ft	NA	NA	NA	NA	NA	NA	NA
D	NA	NA	NA	NA	NA	NA	NA	NA	NA
Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of 10ft ² or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 4 for details for dimensions and locales of Zone 1, 2, and 3 10) V_{ult} is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult}\sqrt{0.6}$ per 1609.3.1.									

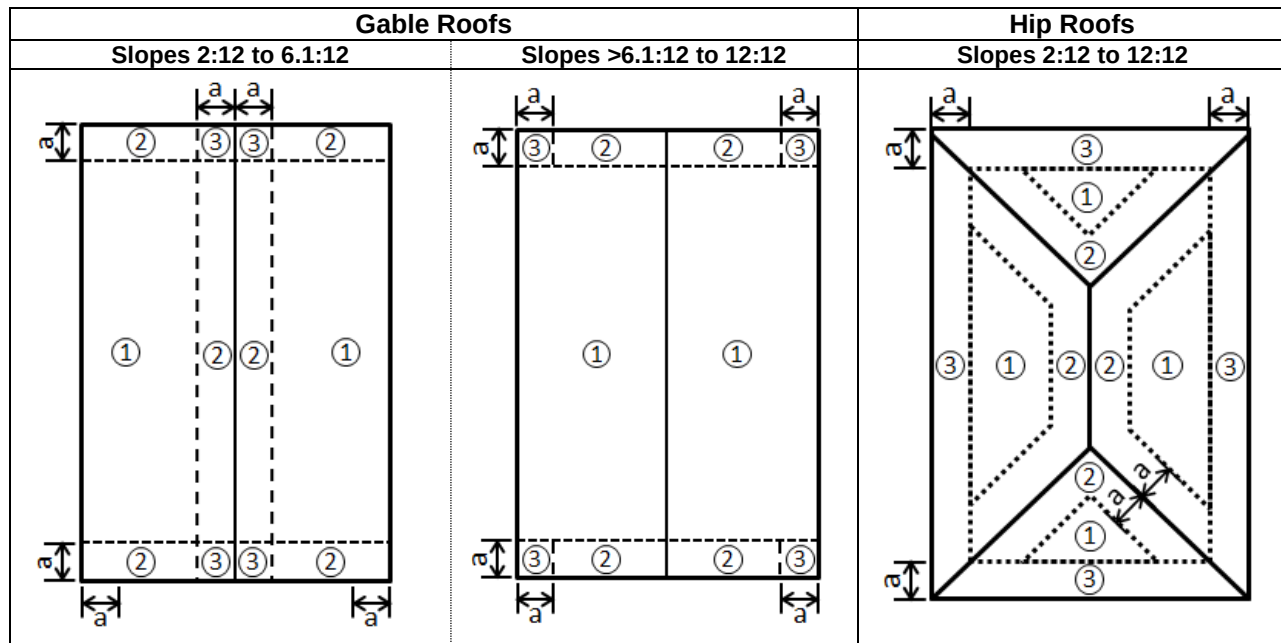


System 2: Over Battens	
Slope:	Shall be in accordance with the FBC.
Roof Deck:	Solid or closely fitted min. 7/16-inch span rated OSB sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.
Underlayment:	In accordance with the FBC.
Existing Roof:	OPTIONAL single layer of existing asphalt shingles; Shall comply with FBC Section 1511
Batten:	1x4 No. 2 SYP lumber laid maximum 24-inches o.c. counter to the deck supports, and secured with one (1) min. 0.113" x 2 3/8-inch ring shank nail spaced 4-inch o.c. staggered
Attachment:	#10-12 x min. 2.5-inch Panel-Tite HWH screws with 1/2-inch O.D. sealing washer attached across the panel width at each batten and adjacent to the rib as shown below; Fasteners shall penetrate the deck a minimum 3/8-inch and shall be corrosion resistant in accordance with section 1507.4.4 and 1506.6.



Maximum Design Pressures:	-71 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>								
Maximum Mean Roof Heights Slopes 2:12 – 12:12									
Exposure	Basic Wind Speed (mph)								
	≤120	130	140	150	160	170	180	190	200
Zone 1 for Gable/Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	45 ft	30 ft	20 ft
C	60 ft	60 ft	60 ft	55 ft	29 ft	16 ft	NA	NA	NA
D	60 ft	60 ft	49 ft	22 ft	NA	NA	NA	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
B	60 ft	60 ft	60 ft	60 ft	38 ft	24 ft	16 ft	NA	NA
C	60 ft	57 ft	27 ft	NA	NA	NA	NA	NA	NA
D	58 ft	23 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	38 ft	22 ft	NA	NA	NA	NA	NA
C	33 ft	15 ft	NA	NA	NA	NA	NA	NA	NA
D	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: 1) Exposure category for the structure location shall be as defined in the Florida Building Code 2) Limitations are based on an effective wind area of 10ft² or less 3) Topographic factors such as escarpments or hills are not included in the above assessment 4) Applicable for Enclosed Buildings without overhangs 5) NA = "Not Allowed" 6) $K_d = 0.85$ 7) $K_e = 1.0$ 8) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 9) See page 4 for details for dimensions and locales of Zone 1, 2, and 3 10) V_{ult} is shown in the tables above. Design wind loads are calculated using $V_{asd} = V_{ult}\sqrt{0.6}$ per 1609.3.1.



Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x Mean Roof Height), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft.

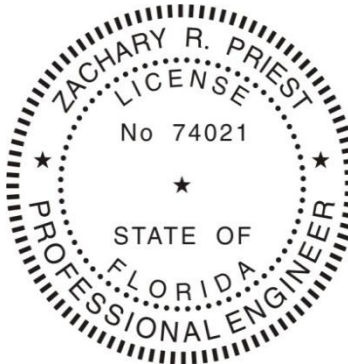
LIMITATIONS

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 slope shall be in accordance with FBC Section 1507.4.2.
5. Roof systems are evaluated for wind resistance as non-structural roof cladding only.
6. Reroofing shall be in accordance with FBC Section 1511. Recovery versus replacement shall be evaluated in accordance with FBC Section 1511.3.
7. 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.
8. 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.

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

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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