

EVALUATION REPORT**FLORIDA BUILDING CODE, 8TH EDITION (2023)**

Manufacturer: METLOK LLC
5655 Carder Rd
Orlando, FL
(321) 303-9536

Issued April 22, 2025

Manufacturing: Omaha, NE

Quality Assurance: PRI Construction Materials Technologies, LLC (QUA9110)

SCOPE

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

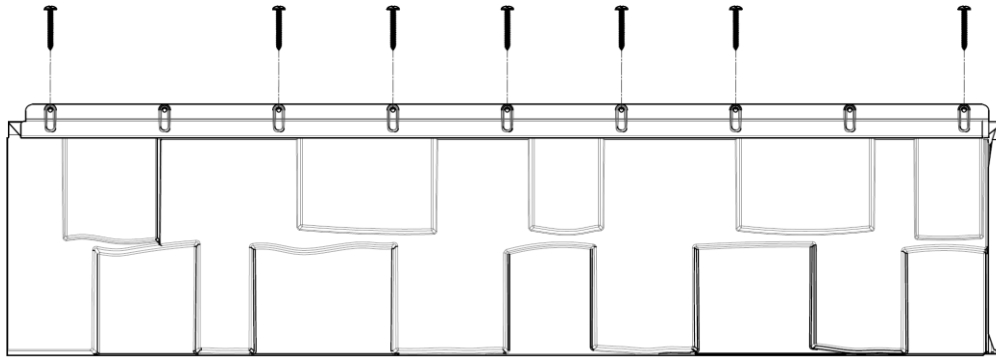
REFERENCES

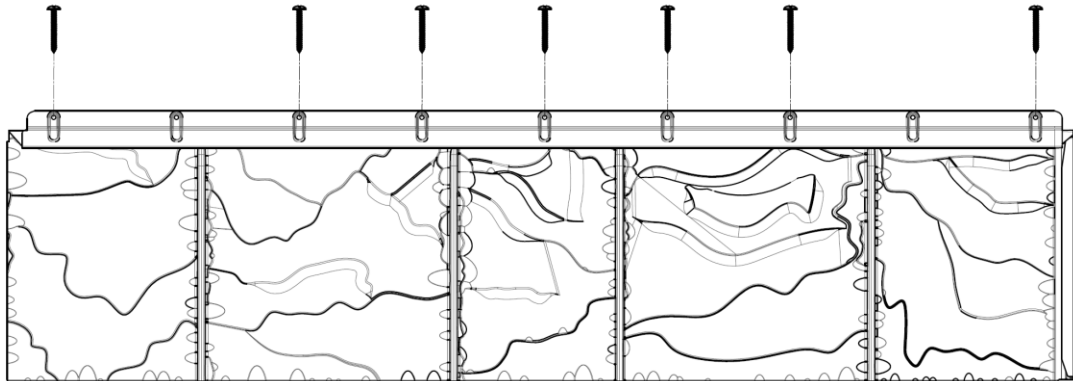
<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	2777T0001.1	UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	2777T0001.2	UL 580	2006
		UL 1897	2015

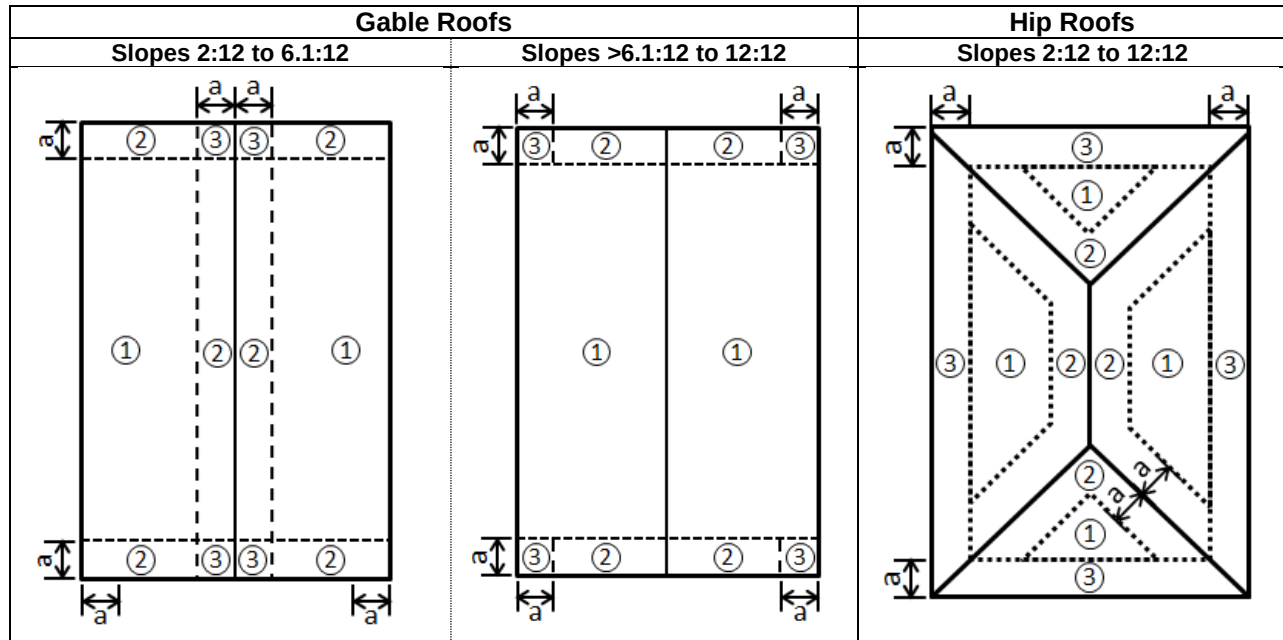
LIMITATIONS

1. This report is not for use inside 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.
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.

APPROVED ASSEMBLIES

System 1 – 26 ga. Shingle Tile									
Profile:	Max. 13 in. x 50-1/2 in. coverage								
Description:	Non-structural, preformed, through fastened roof panel								
Material:	Min. 26 ga. ASTM A792 AZ50 steel (F_y = min. 48 ksi); Shall conform with FBC Section 1507.4.3								
									
Roof Deck:	Solid or closely fitted min. 15/32 in. 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.								
Underlayment:	Installed in accordance with FBC requirements.								
Attachment:	Panels shall be installed by fully engaging the head lap (Pittsburgh seam) into the preceding course and the side lap (Pittsburgh seam) of the adjacent panel prior to fastening. The panel shall be fastened using #10-12 x min. 1.5" Panel Tite Fastener with sealing washer along the nail strip of the panel into pre allotted slots as shown above for a total of 7 fasteners per panel. Fasteners shall penetrate through the deck a minimum 3/8" and shall comply with section 1506.6 and 1507.4.4.								
Maximum Design Pressures:	-78.5 psf <i>Pressure calculated using 2:1 margin of safety</i>								
Maximum Mean Roof Heights for 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	60 ft	44 ft	30 ft
C	60 ft	60 ft	60 ft	60 ft	47 ft	26 ft	15 ft	NA	NA
D	60 ft	60 ft	60 ft	39 ft	18 ft	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	56 ft	35 ft	23 ft	15 ft	NA
C	60 ft	60 ft	45 ft	22 ft	NA	NA	NA	NA	NA
D	60 ft	41 ft	17 ft	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	55 ft	33 ft	20 ft	NA	NA	NA	NA
C	54 ft	24 ft	NA	NA	NA	NA	NA	NA	NA
D	21 ft	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 – 26 ga. Slate Tile									
Profile:	Max. 13 in. x 50-1/2 in. coverage								
Description:	Non-structural, preformed, through fastened roof panel								
Material:	Min. 26 ga. ASTM A792 AZ50 steel (F _y = min. 48 ksi); Shall conform with FBC Section 1507.4.3								
									
Roof Deck:	Solid or closely fitted min. 15/32 in. 32/16 span rated, 4-ply, CDX plywood sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.								
Underlayment:	Installed in accordance with FBC requirements.								
Attachment:	Panels shall be installed by fully engaging the head lap (Pittsburgh seam) into the preceding course and the side lap (Pittsburgh seam) of the adjacent panel prior to fastening. The panel shall be fastened using #10-12 x min. 1.5" Panel Tite Fastener with sealing washer along the nail strip of the panel into pre allotted slots as shown above for a total of 7 fasteners per panel. Fasteners shall penetrate through the deck a minimum 3/8" and shall comply with section 1506.6 and 1507.4.4.								
Maximum Design Pressures:	-86 psf <i>Pressure calculated using 2:1 margin of safety</i>								
Maximum Mean Roof Heights for 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	60 ft	60 ft	42 ft
C	60 ft	60 ft	60 ft	60 ft	60 ft	41 ft	23 ft	NA	NA
D	60 ft	60 ft	60 ft	60 ft	32 ft	15 ft	NA	NA	NA
Zone 2 for Gable Roofs and Zones 2 & 3 for Hip Roofs									
B	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	32 ft	21 ft	15 ft
C	60 ft	60 ft	60 ft	35 ft	19 ft	NA	NA	NA	NA
D	60 ft	60 ft	30 ft	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	60 ft	46 ft	28 ft	18 ft	NA	NA	NA
C	60 ft	38 ft	18 ft	NA	NA	NA	NA	NA	NA
D	37 ft	15 ft	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} √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.

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 4/22/2025.

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

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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.

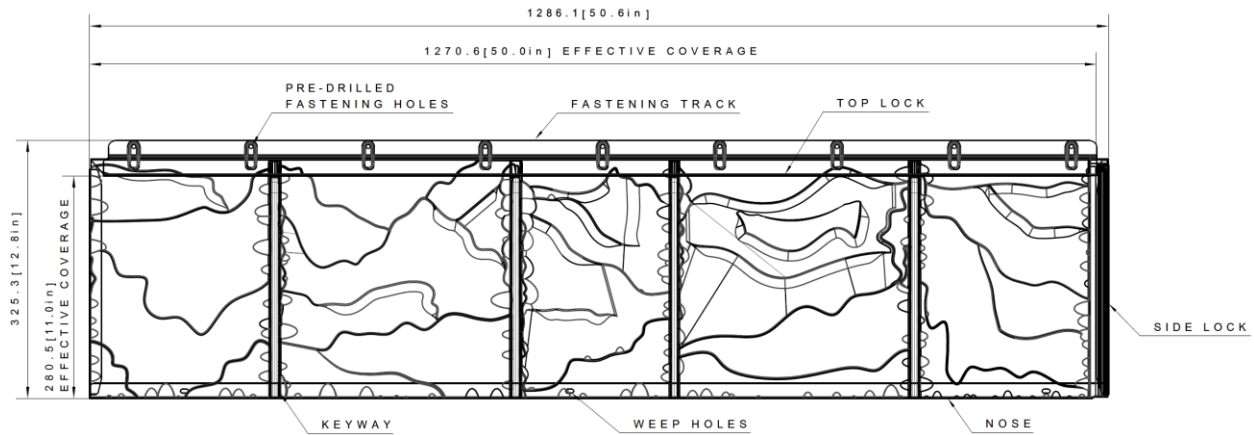
CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

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

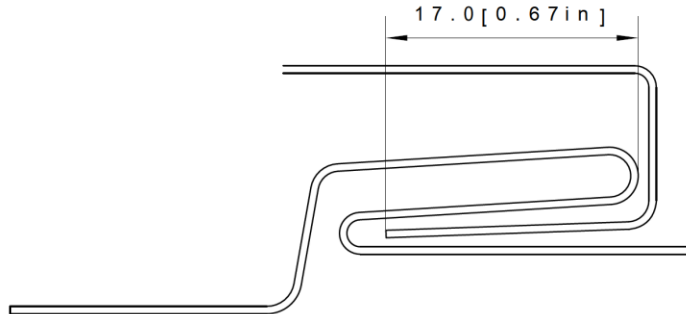
Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.



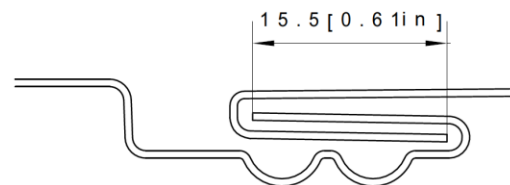
SLATE TILE HEAD LAP (PITTSBURGH SEAM)



SLATE TILE - PITTSBURGH SEAMS



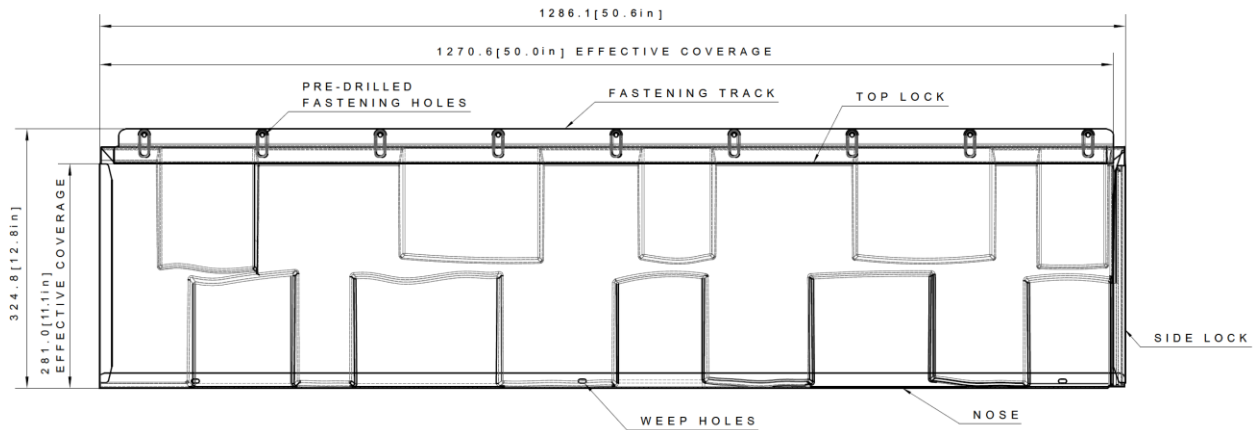
Top Lock / Nose Interlock



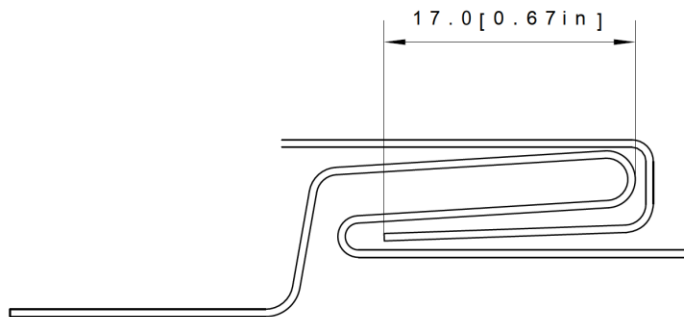
Side Lock Interlock



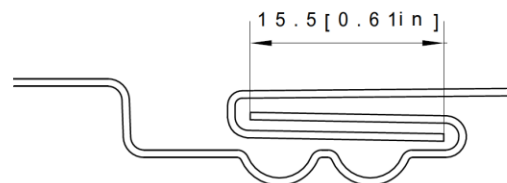
SHINGLE TILE



SHINGLE TILE - PITTSBURGH SEAMS



Top Lock / Nose Interlock



Side Lock Interlock

END OF REPORT