



EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: GUTTER CAP INC.
480 Industrial Drive #108
Naperville, IL 60563
(800) 797-5880

Issued December 15, 2020

Manufacturing: Naperville, IL

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

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Sections: 1504.3.1, 1504.3.3, 1507.5
Properties: Wind Resistance

REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	GCAP-001-02-01	UL 1897	2012

PRODUCT DESCRIPTION

Turtle Shell Roofing and Enviroview Roofing

Profile: Stone-coated metal shingle; 59.25 in. x 6.5 in. coverage
Description: Preformed, fastened, aluminum panels
Material: Nominal .027 in. (+/- .002 in.) 3105-H14 aluminum alloy shingle coated with roofing granules; Shall conform with FBC Section 1507.4.3

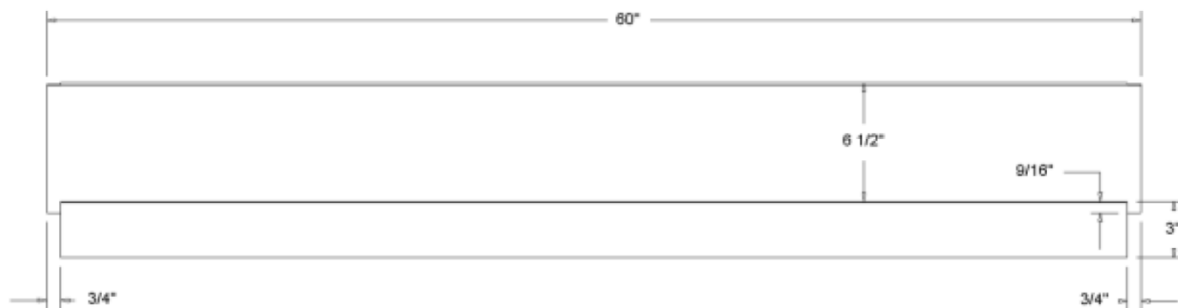


Figure 1. Plan view

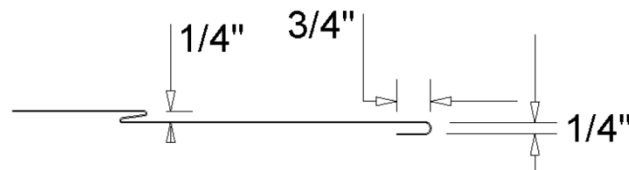


Figure 2. Profile view



APPROVED ASSEMBLIES

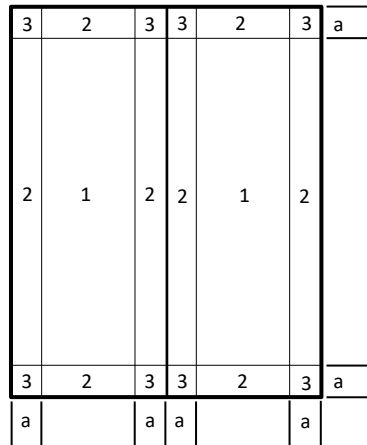
ASM-1									
Slope:	3:12 or greater								
Roof Deck:	Shall be constructed of solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.								
Underlayment:	Shall be Installed in accordance with FBC requirements and manufacturer's installation instructions.								
Attachment:	Each shingle shall engage the preceding course along the front nose of the Pittsburgh Lock and shall be fastened along the back shelf at a rate of five (5) fasteners per panel with #8 x min. 1.5 in. bugle head wood screws. Two (2) fasteners shall be placed 1-2 in. from each edge and the remaining fasteners shall be evenly spaced between the edge fasteners. Courses shall be offset 12", 18", and 24" for the 2nd, 3rd, and 4 th course, respectively, from the initial course, and repeated thereafter with the remaining courses. Fasteners shall be comply with section 1506.6 and 1507.4.4 and shall penetrate through the sheathing a minimum 3/8 in.								
Maximum Design Pressures:	-67.5 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>								
Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12									
Exposure	⁹ Basic Wind Speed (mph)								
	120	130	140	150	160	170	180	190	200
Zone 1 – Field									
B	60 ft	60 ft	60 ft	60 ft	60 ft	52 ft	35 ft	23 ft	16 ft
C	60 ft	60 ft	60 ft	42 ft	22 ft	NA	NA	NA	NA
D	60 ft	60 ft	37 ft	17 ft	NA	NA	NA	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
B	60 ft	60 ft	54 ft	33 ft	21 ft	NA	NA	NA	NA
C	58 ft	27 ft	NA	NA	NA	NA	NA	NA	NA
D	25 ft	NA	NA	NA	NA	NA	NA	NA	NA
Zone 3 (includes 3e and 3r) – Corner									
B	60 ft	49 ft	29 ft	18 ft	NA	NA	NA	NA	NA
C	25 ft	NA	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 the exposed 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) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 8) See page 4 for details for dimensions and locales of Zone 1, 2, and 3 9) V_{ult} is shown in the above table. Design pressures are calculated using $V_{asd} = V_{ult}/\sqrt{0.6}$ per 1609.3.1								



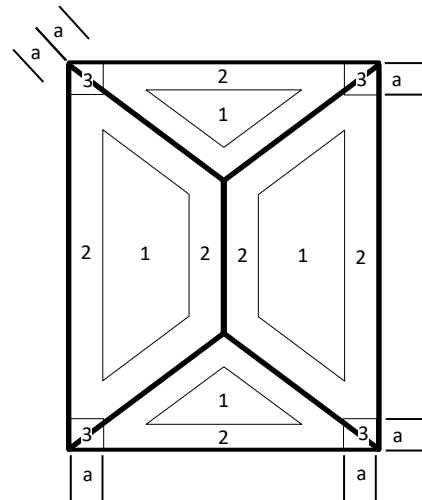
ASM-2									
Slope:		3:12 or greater							
Roof Deck:		Shall be constructed of solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.							
Underlayment:		Shall be Installed in accordance with FBC requirements and manufacturer's installation instructions.							
Attachment:		Each shingle shall engage the preceding course along the front nose of the Pittsburgh Lock and shall be fastened along the back shelf at a rate of five (5) fasteners per panel with #9 x min. 1.5 in. HWH wood screws with 0.5 in. O.D. sealing washers. Two (2) fasteners shall be placed 1-2 in. from each edge and the remaining fasteners shall be evenly spaced between the edge fasteners. Courses shall be offset 12", 18", and 24" for the 2nd, 3rd, and 4 th course, respectively, from the initial course, and repeated thereafter with the remaining courses. Fasteners shall comply with section 1506.6 and 1507.4.4 and shall penetrate through the sheathing a minimum 3/8 in.							
Maximum Design Pressures:		-90 psf <i>Pressure calculated using 2:1 margin of safety per 1504.9</i>							
Maximum Mean Roof Heights for Gable/Hip Roofs Slopes 2:12 – 12:12									
Exposure	⁹ Basic Wind Speed (mph)								
	120	130	140	150	160	170	180	190	200
Zone 1 – Field									
B	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	60 ft	45 ft
C	60 ft	60 ft	60 ft	60 ft	60 ft	50 ft	29 ft	17 ft	NA
D	60 ft	60 ft	60 ft	60 ft	42 ft	21 ft	NA	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
B	60 ft	60 ft	60 ft	60 ft	58 ft	38 ft	25 ft	17 ft	NA
C	60 ft	60 ft	52 ft	27 ft	NA	NA	NA	NA	NA
D	60 ft	52 ft	22 ft	NA	NA	NA	NA	NA	NA
Zone 3 (includes 3e and 3r) – Corner									
B	60 ft	60 ft	60 ft	50 ft	31 ft	20 ft	NA	NA	NA
C	60 ft	46 ft	23 ft	NA	NA	NA	NA	NA	NA
D	49 ft	19 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 the exposed 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) Projects with mean roof heights of greater than 60 ft shall be evaluated by a licensed design professional 8) See page 4 for details for dimensions and locales of Zone 1, 2, and 3 9) V_{ult} is shown in the above table. Design pressures are calculated using $V_{asd} = V_{ult}/\sqrt{0.6}$ per 1609.3.1									



Gable



Hip



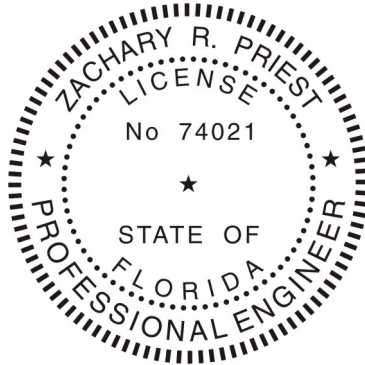
Dimension "a" shall be 10% of the least horizontal dimension or $(0.4 \times \text{Mean Roof Height})$, whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft.

LIMITATIONS

1. This evaluation 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. Reroofing shall be in accordance with FBC Section 1511.
5. 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.
6. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 7th Edition (2020) as evidenced in the referenced documents submitted by the named manufacturer.




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