



EVALUATION REPORT

FLORIDA BUILDING CODE, 7TH EDITION (2020)

Manufacturer: METAL ZONE ROOFING AND FENCING LLC
5585 Reisterstown Rd
North Port, FL 34291
(941) 320-8129

Manufacturing: Kharkiv, Ukraine

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

Issued

SCOPE

Category: Roofing
Subcategory: Metal Roofing
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)	2213T0006	UL 1897	2012
		UL 580	2006
		TAS 125	2003

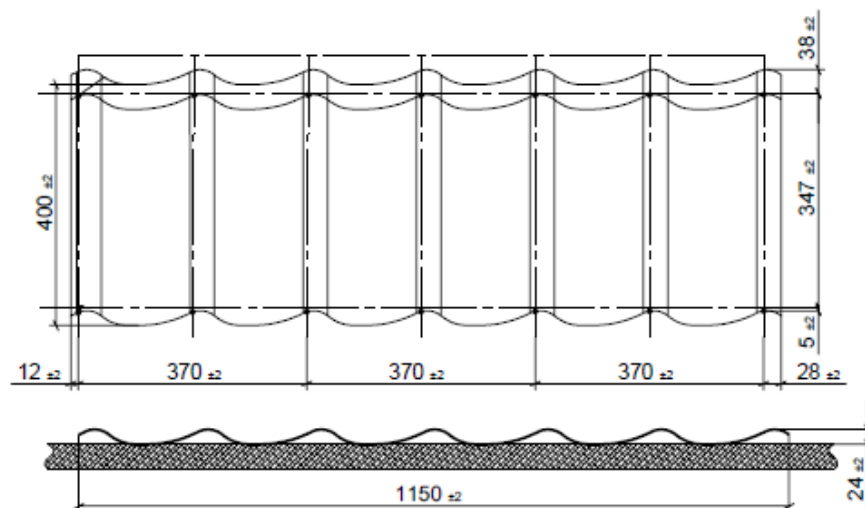
PRODUCT DESCRIPTION

QueenTile Standard

Profile: 15-3/4 in. x 45-1/4 in. panel; Installed with 13-3/4 in. exposure

Description: Preformed, fastened, stoned-coated steel panels

Material: Min. 26 ga. ASTM A792 AZ50 stone-coated steel; F_y = Min. 60 ksi
Shall conform with FBC Section 1507.4.3



Dimensions in mm

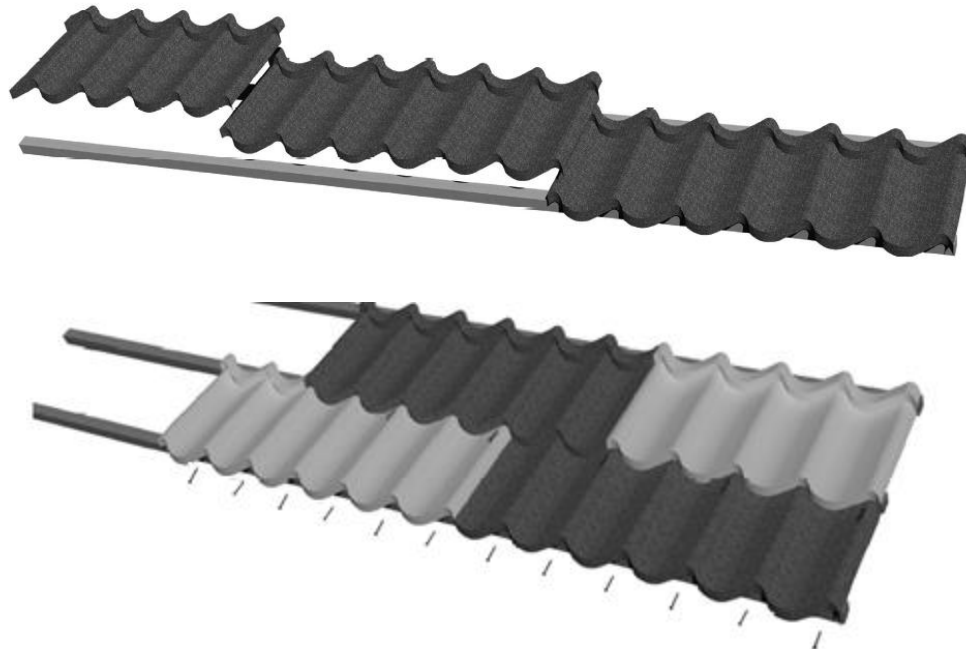
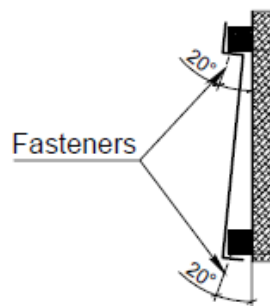
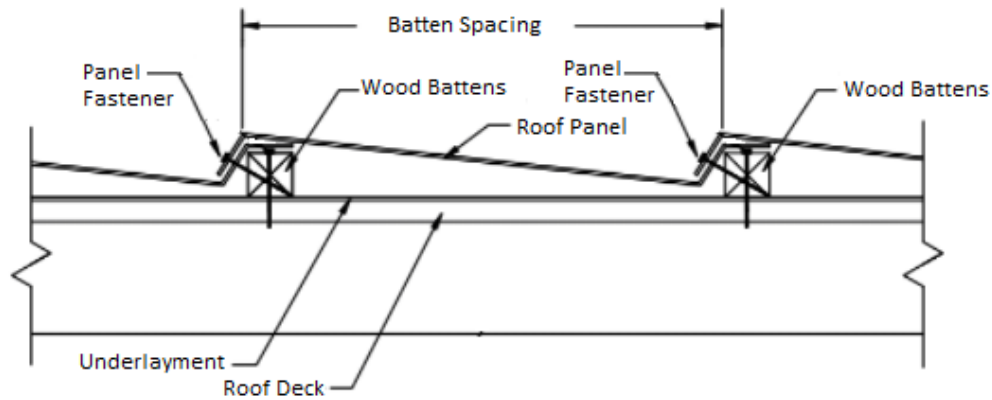


INSTALLATION

Note - Refer to the [APPROVED ASSEMBLIES](#) section of this report for the maximum design pressures of the approved assemblies.

Unless otherwise specified in this report the following installation details shall be met for the named products:

Over Batten Installation

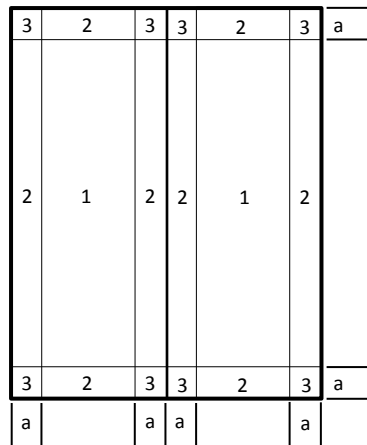


APPROVED ASSEMBLIES

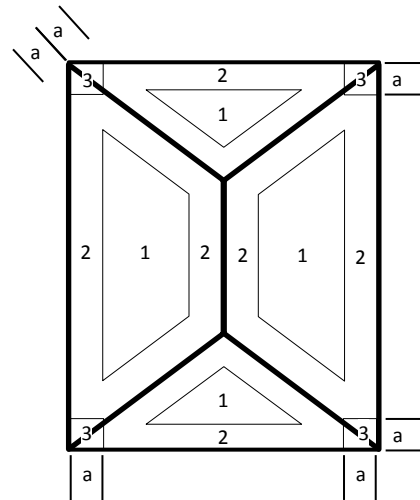
System 1									
Slope:	3:12 or greater								
Roof Deck:	Solid or closely fitted min. 15/32 in. plywood sheathing for new and existing construction at max. 24 in. span; Designed by others in accordance with FBC requirements.								
Underlayment:	Installed in accordance with FBC requirements.								
Battens:	Nominal No. 2 2x2 SYP wood battens spaced 13-5/8 in. o.c. and oriented perpendicular to the roof trusses/rafters. Battens shall be secured maximum 24 in. o.c. with #10 x 3.5 in. exterior wood deck screws into the roof trusses/rafters.								
Attachment:	26 ga. metal panel shall be installed as shown in INSTALLATION with six (6) 0.113 in. x min. 2 in. ring shank nails fastened 0.5 in. from the edge of the lap and 7-1/4 in. o.c. at 20-degree angle through the vertical leg at the headlap of the panel and into the batten. Fasteners shall comply with section 1506.6 and 1507.4.4.								
Maximum Design Pressures:	-82.5 psf <i>Pressure calculated using 2:1 margin of safety</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	48 ft	33 ft
C	60 ft	60 ft	60 ft	60 ft	59 ft	33 ft	19 ft	NA	NA
D	60 ft	60 ft	60 ft	54 ft	25 ft	NA	NA	NA	NA
Zone 2 (includes 2e, 2n, and 2r) – Perimeter									
B	60 ft	60 ft	60 ft	60 ft	42 ft	28 ft	18 ft	NA	NA
C	60 ft	60 ft	34 ft	18 ft	NA	NA	NA	NA	NA
D	60 ft	32 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 (includes 3e and 3r) – Corner									
B	60 ft	60 ft	59 ft	36 ft	23 ft	15 ft	NA	NA	NA
C	60 ft	31 ft	15 ft	NA	NA	NA	NA	NA	NA
D	29 ft	NA	NA	NA	NA	NA	NA	NA	NA
Notes: 1) Exposure category for the structure location shall be as defined in the International 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 $V_{asf} = V_{ult}/\sqrt{0.6}$.									



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 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 information are provided based on testing. FBC requirements for the rational design of the roof deck, including the attachment, are not within the scope of this evaluation.
4. Roof systems are evaluated for wind resistance as non-structural roof cladding only.
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

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.

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