



EVALUATION REPORT

FLORIDA BUILDING CODE 8TH EDITION (2023)

Manufacturer: ALL AMERICAN METAL COMPONENTS, INC. *Issued September 10, 2023*
6625 Warrior Road
Bessemer, AL 35023
(205) 491-1662
www.aa-metal.com

Manufacturing: Bessemer, AL

Quality Assurance: Keystone Certifications ,Inc. (QUA1824)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Sections: 1504.3
Properties: Wind Resistance

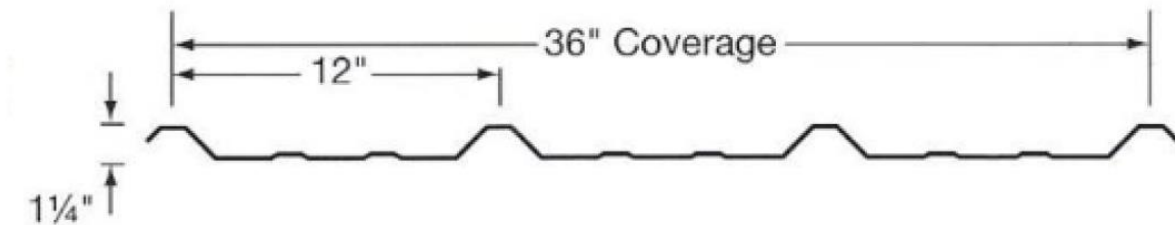
REFERENCES

<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
PRI Construction Materials Technologies (TST5878)	AAMC-001-02-01	UL 1897	2015
		UL 580	2006
PRI Construction Materials Technologies (TST5878)	AAMC-001-02-02	ASTM E 330	2014
PRI Construction Materials Technologies (TST5878)	AAMC-002-02-01	UL 1897	2015
		UL 580	2006



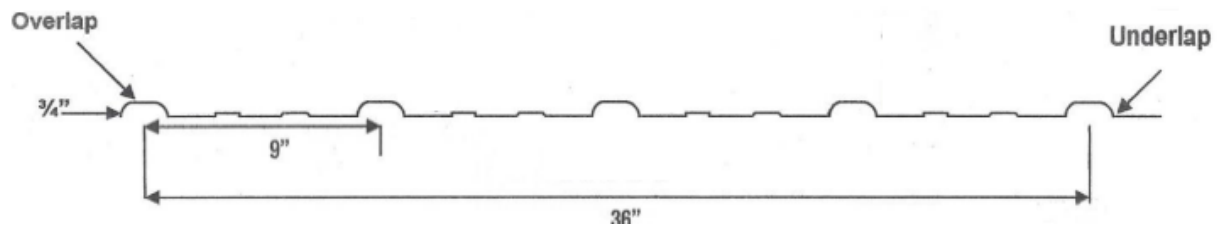
PRODUCT DESCRIPTION

Panel: R-Panel
Description: Preformed panel; 1.25-inch rib; Maximum 36-inch coverage
Material: 26 ga. ASTM A792 AZ50, ASTM A653 G-90, or ASTM A 755 steel (F_y = min. 80 ksi);
24 ga. ASTM A792 AZ50, ASTM A653 G-90, or ASTM A 755 steel (F_y = min. 50 ksi);
Shall conform with FBC Section 1507.4.3



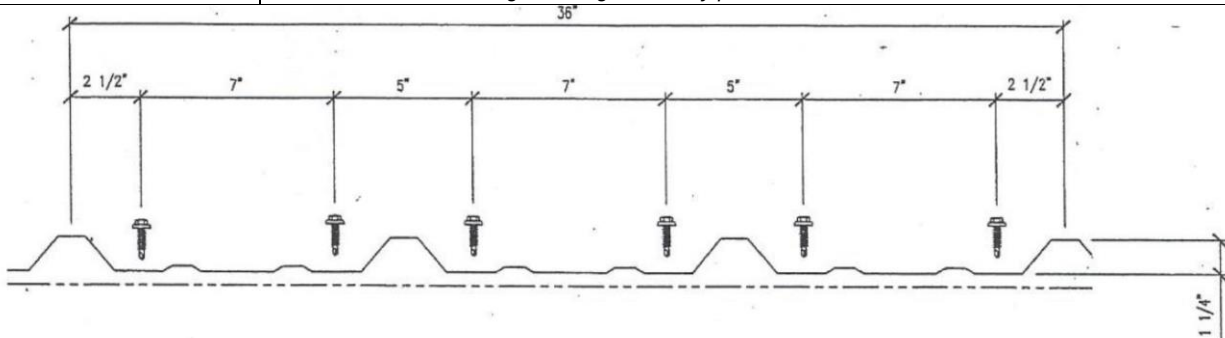
R-Panel Dimensions

Panel: TR-36 Panel
Description: Preformed panel; 0.75-inch rib; Maximum 36-inch coverage
Material: 26 ga. ASTM A792 AZ50, ASTM A653 G-90, or ASTM A 755 steel (F_y = min. 50 ksi);
24 ga. ASTM A792 AZ50, ASTM A653 G-90, or ASTM A 755 steel (F_y = min. 50 ksi);
Shall conform with FBC Section 1507.4.3

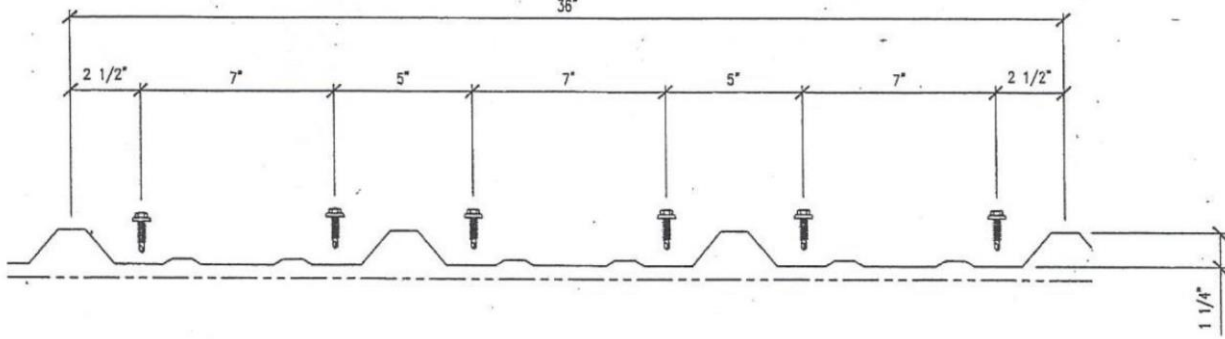


TR-36 Panel Dimensions

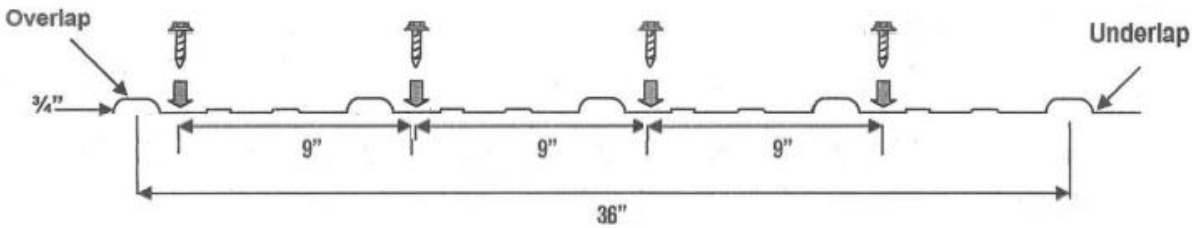
APPROVED ASSEMBLIES

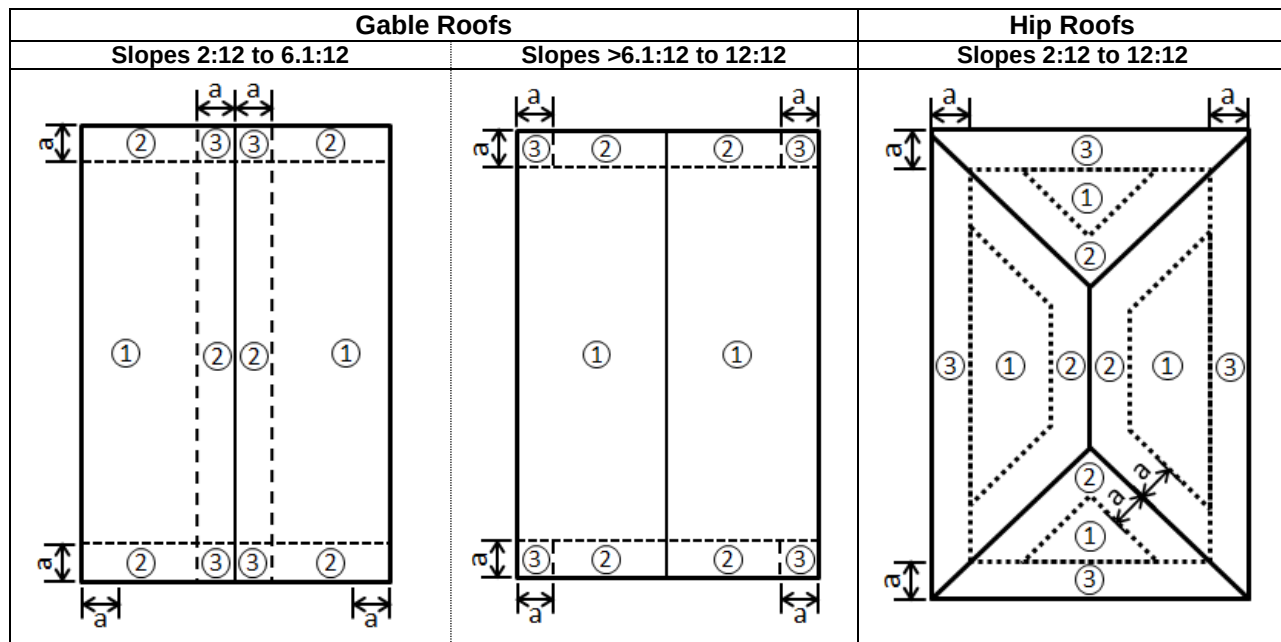
System S-1: R-Panel (26 ga. or 24 ga. steel)									
Slope:	Shall be in accordance with FBC Section 1507.4.2.								
Roof Deck:	Minimum 15/32-inch 32/16 span rated, 4-ply, CDX plywood sheathing or wood plank for new and existing roof deck. Deck shall be designed by others in accordance with FBC requirements.								
Underlayment:	Installed in accordance with FBC Section 1507.1.1.								
Attachment:	#9-15 x minimum 1-inch HWH wood screws with 0.5-inch diameter sealing washers spaced maximum 24-inches o.c. along the panel width with the fastening pattern shown below. Panel seams are secured with #1/4-14 x 7/8-inch HWH metal screws with 0.6-inch sealing washers spaced maximum 20-inches o.c. Fasteners shall penetrate through the deck a minimum 3/8-inch and shall conform to FBC section 1507.4.4 and 1506.6.								
Maximum Design Pressures:	-75 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	55 ft	37 ft	25 ft
C	60 ft	60 ft	60 ft	60 ft	38 ft	21 ft	NA	NA	NA
D	60 ft	60 ft	60 ft	30 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	47 ft	30 ft	19 ft	NA	NA
C	60 ft	60 ft	36 ft	18 ft	NA	NA	NA	NA	NA
D	60 ft	31 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	46 ft	27 ft	17 ft	NA	NA	NA	NA
C	43 ft	19 ft	NA	NA	NA	NA	NA	NA	NA
D	16 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 3 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 S-2: R-Panel (26 ga. or 24 ga. steel)									
Slope:	Shall be in accordance with FBC Section 1507.4.2.								
Purlins:	Minimum 16 ga., Grade 50 steel. Purlins shall be designed by others in accordance with FBC requirements.								
Attachment:	#12-14 x minimum 1.25-inch HWH self-drilling screw with 0.6-inch diameter sealing washers spaced maximum 24-inches o.c. along the panel width with the fastening pattern shown below. Panel seams are secured with #1/4-14 x 7/8-inch HWH metal screws with 0.6-inch sealing washers spaced maximum 20-inches o.c. Fasteners shall penetrate through the purlin a minimum 3/4-inch and shall conform to FBC section 1507.4.4 and 1506.6.								
Maximum Design Pressures:	-75 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	55 ft	37 ft	25 ft
C	60 ft	60 ft	60 ft	60 ft	38 ft	21 ft	NA	NA	NA
D	60 ft	60 ft	60 ft	30 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	47 ft	30 ft	19 ft	NA	NA
C	60 ft	60 ft	36 ft	18 ft	NA	NA	NA	NA	NA
D	60 ft	31 ft	NA	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	60 ft	46 ft	27 ft	17 ft	NA	NA	NA	NA
C	43 ft	19 ft	NA	NA	NA	NA	NA	NA	NA
D	16 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 3 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 S-3: TR-36 Panel (26 ga. steel)									
Slope:		Shall be in accordance with FBC Section 1507.4.2.							
Roof Deck:		Minimum 15/32-inch 32/16 span rated, 4-ply, CDX plywood sheathing or wood plank for new and existing roof deck. Deck shall be designed by others in accordance with FBC requirements.							
Underlayment:		Installed in accordance with FBC Section 1507.1.1.							
Attachment:		#9-15 x minimum 2-inch HWH wood screws with 0.5-inch diameter sealing washers spaced maximum 18-inches o.c. along the panel width with the fastening pattern shown below. Panel seams are secured with #1/4-14 x 7/8-inch HWH metal screws with 0.6-inch sealing washers spaced maximum 20-inches o.c. Fasteners shall penetrate through the deck a minimum 3/8-inch and shall conform to FBC section 1507.4.4 and 1506.6.							
Maximum Design Pressures:		-60 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	58 ft	37 ft	24 ft	16 ft	NA
C	60 ft	60 ft	47 ft	24 ft	NA	NA	NA	NA	NA
D	60 ft	43 ft	18 ft	NA	NA	NA	NA	NA	NA
Zone 2 for Gable Roofs and Zones 2 & 3 for Hip Roofs									
B	60 ft	60 ft	56 ft	33 ft	20 ft	NA	NA	NA	NA
C	54 ft	24 ft	NA	NA	NA	NA	NA	NA	NA
D	22 ft	NA	NA	NA	NA	NA	NA	NA	NA
Zone 3 for Gable Roofs									
B	60 ft	35 ft	20 ft	NA	NA	NA	NA	NA	NA
C	NA	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 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 3 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.

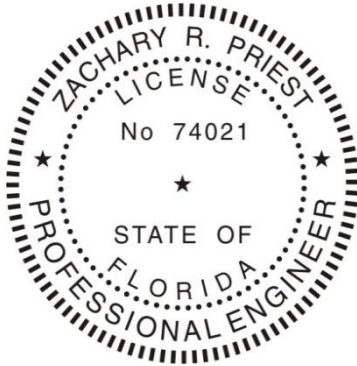
LIMITATIONS

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 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

The products evaluated herein by Zachary R. Priest, P.E. have demonstrated compliance with the Florida Building Code, 8th Edition (2023) as evidenced in the referenced documents submitted by the named manufacturer.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 9/10/2023.

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

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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