

WOLTERS ENGINEERING

ENGINEERING, DRAFTING, CONSULTING

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PRODUCT EVALUATION

PRODUCT: ARMOUR PBR 26 Ga. STEEL 36" WIDE ROOF PANEL
OVER 14 Ga. STEEL PURLINS (FLPA# 27567.1)

MANUFACTURER: 1ST COAST METAL ROOFING SUPPLY
186 STATE ROAD 207
EAST PALATKA, FL 32131

To all concerned,

The Armour PBR 26 Ga. Steel 36" Wide Roof Panel, manufactured by 1st Coast Metal Roofing Supply, is a galvalume coated structural steel roof panel (50 ksi min) that meets the requirements of Section 1507.4 of the 8th Edition (2023) Florida Building Code. The panel has been tested per ASTM E1592 (2012), and FM 4470 Section 5.5 (1986) by Intertek B&C, with results shown in test reports J2231.02-450-44 and J3465.02-109-44-R2. I have reviewed the testing listed above and have determined that for this product they are equivalent to ASTM E1592 (2017) and FM 4470 Section 4.6 (2016), as referenced in the 8th Edition (2023) Florida Building Code.

Technical Documentation:

1. Drawing "1C24SPBR" dated 10/11/23, signed and sealed by Scott Wolters, PE.
2. Test Reports listed above by Intertek B&C, signed & sealed by Vinu Abraham, PE.
3. Supplemental Calculations to support 1C24SPBR, signed and sealed by Scott Wolters, PE.

I have reviewed this submittal per the requirements of FAC Product Approval Rule Chapter 61G20-3.005 (4). Based on the limitations listed below and those provided in the documents above, this product meets all of the requirements of the 8th Edition (2023) Florida Building Code generally, and chapter 15 specifically, for use outside of the High Velocity Hurricane Zone.

Limitations: This panel is approved for use outside of the HVHZ.

<u>Overall Limitations:</u>	Maximum Panel Width:	36" (nominal)
	Maximum Purlin Spacing:	60" O.C. (max)
	Fastener Spacing across panel:	12" O.C. (max), Beside each Rib
	Fastener Spacing along panel:	60" O.C. (thru purlins)
	Min. Panel Fasteners:	#12 x 1" HWH Self-Drilling Screw with Weatherseal Washer
	Min. Slope:	1/2"/12" (with Lap Sealant)
	Max. Design Pressure:	-35 psf

Panel End Laps: At End Laps, Panels are Overlapped 2", Sealed with Butyl Tape, and Fastened on Each Side of Ribs with #12 x 1" HWH Self-Drilling Screws in a 7"-5"-7" Pattern.

Panel Seams: Panel Side-Laps are sealed with 1" Wide Butyl Tape and Fastened 12" O.C. with #12x1" HWH Self-Drilling Screw with WeatherSeal Washer.

Steel Purlins: 14 Ga. Steel (50 ksi min) spaced 60" O.C. (max)


Other Limitations:

1. Roof slope must meet requirements of FBC Section 1507.4.2.
2. Fire classification is not a part of this evaluation. Refer to a current Approved Roofing Materials Directory for fire ratings of this product.
3. Design of substrate is by others and is not a part of this evaluation.
4. All panel system perimeters, penetrations, and transitions to be flashed and sealed per the requirements of RAS 133.

Re-Roofing: The Armour Rib 29 Ga. Steel 36" Wide Roof Panel over 14 Ga. Steel Purlins may be installed over existing R-Panel roofing, provided the existing roof meets all of the requirements of Sections 1511 and 1521.8 of the Florida Building Code.

If you have any questions or need more information concerning this approval, please contact me.

Thank you,


Scott Wolters
FL PE# 62354
OCT 11 2023

