

EQUIVALENCY EVALUATION REPORT	
Project No.: ACE-2026-157	Report No.: ACE-EER-1150, Rev. 1

Product Description: Exposed Fastener Metal Roof Panels, Series BR5-36, TR4-36 and Style-Rib

Product Manufacturer: Centria, 700 State Highway 121 Bypass, Suite 200, Lewisville, TX 75067

Code: Current Edition of the Florida Building Code including the 9th Edition (2026) Florida Building Code

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Product Category/Sub-Category: Structural Components/Roof Deck

SCOPE: Evaluate CENTRIA's Exposed Fastener Metal Roof Panels, Series BR5-36, TR4-36 and Style-Rib for conformance to the 9th Edition (2026) Florida Building Code excluding the High Velocity Hurricane Zone (HVHZ).

CODE CONFORMANCE:

The 9th Edition (2026) Florida Building Code (FBC) requirements specific to this product have been met by testing (Reference 2) and engineering evaluation (Reference 3.a) and depicted on the manufacturer's installation drawings (Reference 1) are the following.

- 1504.3.2 Metal panel roof system
 - Tested to ASTM UL 580 for Uplift Wind Loads.
 - See Reference 2.
- 1507.4.3 Metal Roof Panels - Material Standards
 - Galvanized steel, ASTM A653, G-90 zinc-coated.
 - Minimum met – See Appendix 1.
- 1507.4.4 Attachment
 - Per Manufacturer's Installations Requirements.
 - See References 1 and 2.
- Table 1604.3 Deflection Limits
 - Roof/Not Supporting Ceiling, deflection for wind loading limited to L/180.
 - Met – See Appendix 2, 3 and 4.
- 1609 Wind Loads
- 2210.1 Cold-Formed Steel, General
 - Designed to AISI S100 for downwards wind/gravity loading.

Testing (Reference 2) is based on UL 580 per the requirements of the 9th Edition (2026) FBC. Testing determines the Negative (Uplift) Pressure Loading in PSF. The Roof Panels received a UL 580 Class 90 rating.

The engineering evaluation (Reference 3.a) is based on AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members. The engineering evaluation determines Positive (Downwards Acting) Pressure Loading in PSF. Safety factors are as prescribed in AISI S100-07/S2-10. Deflection limitation based on L/180 which meets the L/180 required by the building code.

The 9th Edition (2026) Florida Building Code (FBC & FRC) requires AISI S100-16(2020) w/S2-20 to be used for cold-formed steel design.

The engineering evaluation in Reference 3.a has been reviewed against the requirements of AISI S100-16(2020) w/S2-20 and found to be compliant with its requirements.

UL 580-2006 (used in testing for this product remains in the 9th Edition (2026) Florida Building Code (FBC.)

Therefore, this product and its engineering evaluations meet the requirements of the 9th Edition (2026) Florida Building Code (FBC).

TESTING STANDARDS: Testing standards used in Reference 2 include the following.

- UL 580 – 2006

REFERENCES & SUPPORTING DOCUMENTS:

- 1) Manufacturer's Installation Instructions:
 - a) Exposed Fasteners Metal Roof Panels Installation Instructions, signed and sealed by Robert J. Amoruso, P.E.
 - 2) UL Certifications to UL 580 – See Appendix 5 (UL certs reviewed on 6/26/25 and current below).
 - a) Style-Rib
 - i) Roof Deck Constructions, Construction No. 137, TGKX.137, Roof Deck Constructions, Dated 9/13/2024 to UL 580
 - ii) Wind Uplift – Steel Panels – Class 90 – Fire Not Investigated
 - b) BR5-36
 - i) Roof Deck Constructions, Construction No. 137A, TGKX.137A, Metal Deck Assemblies, Dated 12/10/97 to UL 580
 - ii) Wind Uplift – Steel Panels – Class 90 – Fire Not Investigated
 - c) TR4-36
 - i) Roof Deck Constructions, Construction No. 203, TGKX.203, Roof Deck Constructions, Dated 4/21/06 to UL 580
 - ii) Wind Uplift – Steel Panels – Class 90 – Fire Not Investigated
 - 3) Reports and Calculations
 - a) Report No. ACE-PER-1150, Panel Span Analysis for Centria Exposed Fastener Metal Roof Panels to AISI S100-07/S2-10, see Appendix 2, 3 and 4
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- b) Report No. ACE-PER-1150, Product Evaluation Report for Centria Exposed Fastener Metal Roof Panels, Series BR5-36, TR4-36 and Style-Rib to the 9th Edition (2026) FBC & 9th Edition (2026) FRC, Signed and Sealed by Robert J. Amoruso, P.E.
- 4) 9th Edition (2026) Florida Building Code (FBC), Building Volume
 - i) 1504.3.2 Metal panel roof system
 - ii) 1507.4.3 Metal Roof Panels - Material Standards
 - iii) 1507.4.4 Attachment
 - iv) Table 1604.3 Deflection Limits
 - v) 1609 Wind Loads
 - vi) 2210.1 Cold-Formed Steel, General
- 5) Standards used in original evaluation
 - a) AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members
 - i) Engineering evaluation for Positive (Downwards Acting Gravity and/or Wind) Loading in accordance with AISI S100.

Certificate of Independence per Product
Approval Rule 61G20-3.009

Robert J. Amoruso, P.E., does not have, nor will he acquire, any financial interest in the company manufacturing or distributing product(s) covered by this Product Evaluation Report.

Robert J. Amoruso, P.E., does not have, nor will he acquire any financial interest in any other entity involved in the approval process or testing of the product(s) covered by this Product Evaluation Report.



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Amoruso
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