
EQUIVALENCY EVALUATION REPORT	
Project No.: ACE-2026-157	Report No.: ACE-EER-1154, Rev. 1

Product Description: Concept Series Concealed Fastener Metal Wall Panels

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/Structural Wall

SCOPE: Evaluate CENTRIA's Concept Series Concealed Fastener Metal Wall Panels 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.

- 1403.3 Exterior Walls – Wind Resistance
- 1404.5 Exterior Walls – Metal
- Table 1405.2 Minimum Thickness of Weather Coverings
 - Steel must meet or exceed 0.0149" in thickness.
- 1405.17 Exterior Walls - Fasteners
- Table 1604.3 Deflection Limits
 - Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
- 1609 Wind Loads
- 1707.1 Alternative Test Procedure
- 2210.1 Cold-Formed Steel, General

Testing is based on ASTM E72 per the recommendations of Reference 5.b (Section 1707.1 of the 9th Edition (2026) FBC). Testing determines the Negative (Uplift) Wind Pressure Loading in PSF. The minimum safety factor against failure used to determine the allowable pressure loading is 2.5 if excessive slipping or failure occurs at the connections and 2 for all other panel failure modes. For the Horizontal/Vertical Concept Series CS-### Panels, the CS-200 and CS-630 Panels are used in testing to envelope all Concept Series profiles as they represent the worst-case section properties. For the Vertical Only Concept Series CS-###E Panels, the CS-200E and CS-630E Panels are used in testing to envelope all Concept Series profiles as they represent the worst-case section properties.

The engineering evaluation (Reference 3.a) is based on AISI S100-12, North American Specification for the Design of Cold-formed Steel Structural Members. The engineering evaluation determines Positive (Downwards Acting) Wind Pressure Loading in PSF. Safety factors are as prescribed in AISI S100-12.

Fastener allowable is based on a safety factor of 3. Deflection limitation based on L/180 which exceeds L/120 required by the building code.

9th Edition (2026) Florida Building and Residential Code Standards requirements:

- 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.
- ASTM E72 is not included in the 2026 FBC or 2026 FRC. As indicated above ASTM E72 is approved for use per the requirements of Section 1707.1 of the 9th Edition (2026) FBC, Alternative Test Procedure.

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.

Testing using ASTM E72 is acceptable per Section 1707.1 of the 9th Edition (2026) FBC.

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

REFERENCES & SUPPORTING DOCUMENTS:

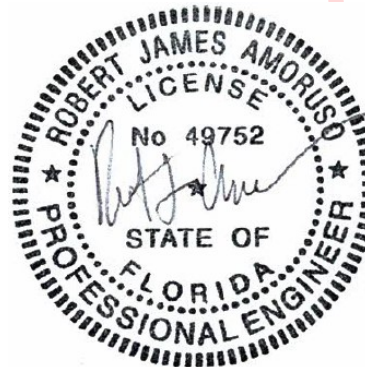
- 1) Manufacturer's Installation Instructions:
 - a) Concept Series CS-2## 12" or CS-6## 16" Panel Width - Horizontal Siding with CSC Clip Over Gypsum Board (Panels May Also Be Installed Directly to Support System Without Sheathing) Installation Details, dated 4/25/18, Sheets 1 and 2 of 4, Signed and Sealed by Robert J. Amoruso, P.E.
 - b) Concept Series CS-2##E 12" or CS-6##E 16" Panel Width - Vertical Siding with Extended Leg (Panels May Also Be Installed Directly to Support System Without Sheathing) Installation Details, dated 4/25/18, Sheets 3 and 4 of 4, Signed and Sealed by Robert J. Amoruso, P.E.
- 2) Tests to ASTM E72-02
 - a) FET T163A-04 Negative Load Test for CS-630 Panel 16 in. Wide, 24 Gauge
 - b) FET T163B-04 Negative Load Test for CS-630 Panel 16 in. Wide, 18 Gauge
 - c) FET T163C-04 Negative Load Test for CS-630E Panel 16 in. Wide, 18 Gauge
 - d) FET T163D-04 Negative Load Test for CS-630E Panel 16 in. Wide, 24 Gauge
 - e) FET T163E-04 Negative Load Test for CS-200 Panel 12 in. Wide, 18 Gauge
 - f) FET T163F-04 Negative Load Test for CS-200 Panel 12 in. Wide, 24 Gauge
 - g) FET T163G-04 Negative Load Test for CS-200E Panel 12 in. Wide, 18 Gauge
 - h) FET T163H-04 Negative Load Test for CS-200E Panel 12 in. Wide, 24 Gauge
- 3) Reports and Calculations
 - a) Report No. ACE-PER-1154, Appendix 3, 4, 5 & 6, Panel Span Analysis for Centria Concept Series Concealed Fastener Metal Wall Panels to AISI S100-12, Revision 0 and Negative Load Test Interpretation, signed and sealed by Robert J. Amoruso, P.E.

- b) Report No. ACE-PER-1154, Product Evaluation for Centria Concept Series Concealed Fastener Metal Wall Panels to the 9th Edition (2026) FBC & FRC, Signed & Sealed by Robert J. Amoruso, P.E.
- 4) 9th Edition (2026) Florida Building Code (FBC), Building Volume
 - i) 1403.3 Exterior Walls – Wind Resistance
 - ii) 1404.5 Exterior Walls – Metal
 - iii) Table 1405.2 Minimum Thickness of Weather Coverings
 - (1) Steel must meet or exceed 0.0149” in thickness.
 - iv) 1405.17 Exterior Walls - Fasteners
 - v) Table 1604.3 Deflection Limits
 - (1) Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
 - vi) 1609 Wind Loads
 - vii) 1707.1 Alternative Test Procedure
 - viii) 2210.1 Cold-Formed Steel, General
- 5) Standards
 - a) AISI S100-12, North American Specification for the Design of Cold-formed Steel Structural Members
 - b) Metal Construction Association, Guidelines for Wall Panel, Preformed Metal Wall Specification Guidelines, 3rd Edition.
 - i) The test method shall be either ASTM E72 or ASTM E330.
 - ii) The minimum safety factor against failure shall be:
 - (1) 2.5 if excessive slipping or failure occurs at the connections.
 - (2) Otherwise, it shall be 2.

**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.



Digitally signed
by Robert J
Amoruso
Date:
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Evaluated by:
Robert J. Amoruso, P.E.
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