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EQUIVALENCY EVALUATION REPORT	
Project No.: ACE-2024-124	**Report No.:** ACE-EER-1142, Rev. 0

Product Description: Econolap 3/4" Exposed Fastener Metal Wall Panel

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

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 Econolap ¾" Exposed Fastener Metal Wall Panel for conformance to the 8th Edition (2023) Florida Building Code excluding the High Velocity Hurricane Zone (HVHZ).

CODE CONFORMANCE:

The 8th Edition (2023) Florida Building Code (FBC) requirements specific to this product that have been met by engineering evaluation (Reference 2.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
- 2210.1 Cold-Formed Steel, General

The engineering evaluation (Reference 2.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 Wind Pressure Loading in PSF. Safety factors are as prescribed in AISI S100-07/S2-10. Fastener allowable is based on a safety factor of 3. Deflection limitation based on L/120.

The 8th Edition (2023) Florida Building Code (FBC) requires AISI S100-16(2020) w/S2-20 and the 8th Edition (2023) Florida Residential Code (FRC) requires AISI S100-16, S1-18 to be used for cold-formed steel design.

The engineering evaluation in Reference 2.a has been reviewed against the requirements of AISI S100-16(2020) w/S2-20 and AISI S100-16, S1-18 and found to be compliant with its requirements.

Therefore, this product and its engineering evaluations meet the requirements of the 8th Edition (2023) Florida Building Code (FBC).

REFERENCES & SUPPORTING DOCUMENTS:

1) Manufacturer's Installation Instructions:
   a) Econolap 3/4" Exposed Fastener Metal Wall Panel Installation Drawing, Signed and Sealed by Robert J. Amoruso, P.E.
   b) Horizontal Exposed Fastener Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.
   c) Vertical Exposed Fastener Installation Details, Signed and Sealed by Robert J. Amoruso, P.E.
2) Reports and Calculations
   a) Report No. ACE-PER-1142, Appendix 2 and 3, Panel Span Analysis for Centria Exposed Fastener Metal Wall Panels to AISI S100-07/S2-10, Signed and Sealed by Robert J. Amoruso, P.E.
   b) Report No. ACE-PER-1142, Product Evaluation Report for Centria Exposed Fastener Metal Wall Panels, Signed and Sealed by Robert J. Amoruso, P.E
3) 8th Edition (2023) Florida Building Code (FBC), Building Volume
   a) 1403.3 Exterior Walls – Wind Resistance
   b) 1404.5 Exterior Walls – Metal
   c) Table 1405.2 Minimum Thickness of Weather Coverings
      i) Steel must meet or exceed 0.0149" in thickness.
   d) 1405.17 Exterior Walls - Fasteners
   e) Table 1604.3 Deflection Limits
      i) Exterior Walls/Flexible Finishes, deflection for wind loading limited to L/120.
   f) 1609 Wind Loads
   g) 2210.1 Cold-Formed Steel, General
4) Standards (used in design)
   a) AISI S100-07/S2-10, North American Specification for the Design of Cold-formed Steel Structural Members

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: 2025.08.18 16:24:02 -04'00'

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