

Product Evaluation Report

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<u>Product Manufacturer</u>	<u>Product Name, Model and/or Description</u>
CENTRIA 1550 Coraopolis Heights Road Suite 500 Moon Township, PA 15108	Metalwrap Insulated Metal Wall Panels - HVHZ

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

Compliance Method: Product Approval Rule 61G20-3.005(1)(d) – Product Evaluation Report by a Licensed Professional Engineer

Product Name, Model and/or Designation: Products covered by this evaluation include the following.

- Metalwrap Insulated Metal Wall Panels - HVHZ

Installation Drawings:

- Centria Installation Instructions. Metalwrap Insulated Metal Wall Panels, Air/Water Barrier, dated 7/15/21, Signed and Sealed by Robert J. Amoruso, P.E.

Evaluations:

- Calculations titled "Meta/Wrap Air/Water Barrier Panel System", dated 07/31/15, 22 pages, prepared by John E. Pflugh, FL P.E., signed and sealed by John E. Pflugh, P.E. on 07/31/15.
- Sunderman Laboratories, Evaluation of Huntsman Rubitherm WR40633 Polyisocyanurate for use with Centria Versawall, Versapanel and Metalwrap panels, dated 8/25/17.
 - Conclusion:
 - Huntsman Rubitherm WR40633 Polyisocyanurate can be used as a replacement for Baytherm 871.
 - Baytherm 871 was used in the performance tests listed below as the foam insulation of the product assembly.
 - Substituting the Huntsman Rubitherm for Baytherm 871 will not adversely affect the performance of the Metalwrap assembly when used as a substitute for Baytherm 871.

Test Reports:

- PERFORMANCE TESTS
 - Test report on Large Missile Impact Test per TAS 201, Cyclic Wind Pressure Test per TAS 203 and Uniform Static Air Pressure Test per TAS 202 on Meta/Wrap Series Panel with MR-JOO Rails, prepared by Farabaugh Engineering and Testing, Inc., Report No. T206-15, dated 07/06/2015, signed and sealed by Daniel G. Farabaugh, P.E.

Amoruso Consulting Engineering, LLC
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- Test report on Large Missile Impact Test per TAS 201, Cyclic Wind Pressure Test per TAS 203 and Uniform Static Air Pressure Test per TAS 202 on Meta/Wrap Series Panel with MR-300 Rails, prepared by Farabaugh Engineering and Testing, Inc., Report No. T208-15, dated 07/06/2015, signed and sealed by Daniel G. Farabaugh, P.E.
- MATERIAL TESTS
 - Intertek Report No. H2598.01-106-31, 09/05/17, Huntsman WR40633 and Baytherm 871 Foam Core Insulation for Versawall 2", Versapanel 1.75", and MetalWrap 2" insulation panels, ASTM D1929-16, *Standard Test Method for Determining Ignition Temperature of Plastics*
 - Self-Ignition Temperature = 500°C (932°F) (Huntsman WR40633 Metalwrap 2")
 - Flash Ignition Temperature = 440°C (824°F) (Huntsman WR40633 Metalwrap 2")
 - Intertek Report No. 103167166SAT-001A, August 15, 2017, "Metalwrap 3" WR40633 Huntsman foam", ASTM E84-16 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (UL 723, UBC 8-1, NFPA 255)
 - Flame spread index = 15
 - Smoke developed index = 350
 - Intertek Report No. 103167166SAT-012A, August 15, 2017, "Metalwrap 2" Huntsman foam", ASTM E84-16 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (UL 723, UBC 8-1, NFPA 255)
 - Flame spread index = 20
 - Smoke developed index = 400

Material Test Results - Conformance to Florida Building Code:

Code mandated material requirements shown below have been met for the Huntsman Rubitherm Polyisocyanurate (PIR) Insulating Foam Core material. Note that Flash Ignition Temperature is not a code mandated requirement.

- Surface-burning characteristics per ASTM E84 or UL 723
 - Flame spread index ≤ 75
 - Smoke-developed index ≤ 450
- Self-ignition temperature per ASTM D1929
 - Self-ignition temperature $\geq 650^{\circ}\text{F}$ (343°C)

Test Standards Used:

- TAS 201-94 (circa 2015)
- TAS 202-94 (circa 2015)
- TAS 203-94 (circa 2015)
- ASTM D1929-16
- ASTM E84-16

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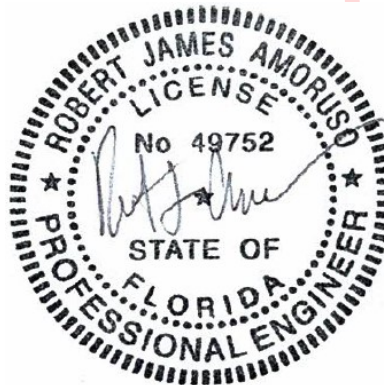
Limitations & Conditions of Use:

- This product HAS been evaluated for use inside the High Velocity Hurricane Zone (HVHZ).
- This product HAS been tested for Impact Resistant.
- Refer to Product Installation Instructions noted above for:
 - Maximum allowable wind loads at related maximum allowable size(s).
 - Overall dimensions and material/grade of main product components, accessories, etc.
 - Illustrated diagrams of the attachment of the product to substrate structure.
 - Anchor type(s), size(s), substrate(s), embedment, edge distance, and spacing/locations.
- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding based on allowable stress design.
- Site conditions not covered in this product evaluation document are subject to additional engineering analysis by a licensed professional engineer or registered architect as required by the authority having jurisdiction.
- Adequacy of the existing structural substrates as a main wind force resisting system capable of withstanding and transferring applied product loads to the foundation is the responsibility of the licensed professional engineer or registered architect acting as the design professional of record for the project of installation.

Certificate of Independence per Product Approval Rule 61G20-3.009

Robert J. Amoruso, P.E., does not have, nor will 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 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

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