

Product Evaluation Report

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Product Manufacturer
CENTRIA
1550 Coraopolis Heights Road
Suite 500
Moon Township, PA 15108

Product Name, Model and/or Description
Versawall Insulated Metal Wall Panels - HVHZ

Code: Current Edition of the Florida Building Code including the 8th Edition (2023) 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.

- Versawall Insulated Metal Wall Panels - HVHZ

Installation Drawings:

- Centria Installation Instructions. Versawall Insulated Metal Wall Panels - HVHZ, Issue 1, dated 2/12/19, Signed and Sealed by Robert J. Amoruso, P.E.

Engineering Analysis & Evaluation:

- Calculations titled "Versawall 2.75, 22/22 – 30 Wall Panel System, dated 1/23/19, 11 pages, prepared by CENTRIA, signed and sealed by John Pflugh, P.E. (FL PE No. 73494) on 1/23/19.
- Product Evaluation Report No. 2587, Rev. 0, Structural Comparison between Baytherm PIR & Rubitherm PIR for Versawall Panels, RD-18-26, prepared by Greg Pegher, dated 10/8/18, signed and sealed by Robert J Amoruso, P.E.

Test Reports:

- PERFORMANCE TESTS
 - Test report on Air Infiltration, Uniform Static Air Pressure, and Water Resistance Test, per FBC, TAS 202-94, Large Missile Impact Test, per FBC, TAS 201-94 and Cyclic Wind Pressure Loading, per FBC, TAS 203-94 along with drawings of Versawall Panel assembly, prepared by Farabaugh Engineering and Testing, Test Report No. T176-13, dated 05/08/13, signed and sealed by Daniel G. Farabaugh, P.E.
 - VERSAWALL VW30-2.75 (30" MODULE, 22 GA FASCIA, 22 GA LINER), 1 SPAN @ 32" AND 1 SPAN @ 28" ONTO 3/16" STEEL TUBES
 - Test report on Air Infiltration, Uniform Static Air Pressure, and Water Resistance Test, per FBC, TAS 202-94, Large Missile Impact Test, per FBC, TAS 201-94 and Cyclic Wind Pressure Loading, per FBC, TAS 203-94 along with drawings of Versawall Panel assembly, prepared by Farabaugh Engineering and Testing, Test Report No. T175-13, dated 05/8/13, signed and sealed by Daniel G. Farabaugh, P.E.
 - VERSAWALL VW30-2.75 (30" MODULE, 22 GA FASCIA, 22 GA LINER), 2 SPANS @ 8'-0" ONTO 16 GA. SUBGIRTS
 - Test report on Air Infiltration, Uniform Static Air Pressure, and Water Resistance Test, per FBC, TAS 202-94, Large Missile Impact Test, per FBC, TAS 201-94 and Cyclic Wind Pressure Loading, per FBC, TAS 203-94 along with drawings of Versawall Panel assembly, prepared by Farabaugh Engineering and Testing, Test Report No. T159-13, dated 03/28/14, signed and sealed by Daniel G. Farabaugh, P.E.
 - VERSA WALL VW30-2.75 (30" MODULE, 22 GA FASCIA, 22 GA LINER), 2 SPANS @ 8'-0" O.C. INTO 3/16" STEEL TUBE
 - Test report on Air Infiltration, Uniform Static Air Pressure, and Water Resistance Test, per FBC, TAS 202-94, Large Missile Impact Test, per FBC, TAS 201-94 and Cyclic Wind Pressure Loading, per FBC, TAS 203-94



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along with drawings of Versawall Panel assembly, prepared by Farabaugh Engineering and Testing, Test Report No. T161-13, dated 04/28/13, signed and sealed by Daniel G. Farabaugh, P.E.

- VERSAWALL VW30-2.75 (30" MODULE, 22 GA FASCIA, 22 GA LINER), 3 SPANS @ 1'-4" O.C. INTO 16 GA. SUBGIRTS

• 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 Versawall 2")
 - Flash Ignition Temperature = 440°C (824°F) (Huntsman WR40633 Versawall 2")
- Intertek Report No. 103133595SAT-001A, June 30, 2017, "Versawall 4" WR40633 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 = 300
- Intertek Report No. 103167166SAT-010A, August 2, 2017, "Versawall 2" Huntsman foam", ASTM E84-16 TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (UL 723, UBC 8-1, NFPA 255)
 - Flame spread index = 25
 - Smoke developed index = 250

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 2013 and 2014)
- TAS 202-94 (circa 2013 and 2014)
- TAS 203-94 (circa 2013 and 2014)
- ASTM D1929-16
- ASTM E84-16

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.



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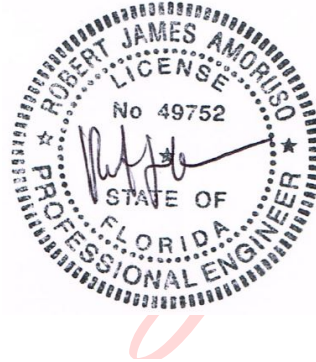
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- Site wind pressures shall be determined by a licensed professional engineer in accordance with the current edition of the Florida Building Code (and/or ASCE 7 as referenced in the current edition of the Florida Building Code) for components and cladding 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

PTC Product Design Group, LLC and 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.

PTC Product Design Group, LLC and Robert J. Amoruso, P.E. do 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
Date:
2023.08.14
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Evaluated By:
Robert J. Amoruso, P.E.
FL P.E. License Number 49752

