

Product Evaluation Report

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Product Manufacturer

Rytec Corporation
One Cedar Parkway
Jackson, Wi 53037

Product Series, Model and/or Description

Spiral Rollup Doors
Models SST-HZ and SSN-HZ

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

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

Product Name, Model and/or Designation

- Spiral Rollup Doors, Models SST-HZ and SSN-HZ

Performance Testing and Materials Test Reports

- Test report on Forced Entry Resistance Test per FBC, TAS 202-94 of a Model SST-S Roll up Door, prepared by Architectural Testing, Inc., Test Report No. C1821.01-602-18, dated 09/04/2012, signed and sealed by Shawn G. Collins, P.E.
 - TAS 202-94 circa 2012 – 2010 FBC
- Test report on Large Missile Impact Test per FBC, TAS 201-94, Cyclic Wind Pressure Test per FBC, TAS 203-94 and Uniform Static Air Pressure Test per FBC, TAS 202-94 of Series/Model Spiral-HZ overhead doors, prepared by ETC Laboratories, Test Report No. ETC-05-844-16366.0, dated 04/17/2006, signed and sealed by Joseph Labora Doldan, P.E.
 - TAS 201-94 circa 2006 – 2004 FBC
 - TAS 202-94 circa 2006 – 2004 FBC
 - TAS 203-94 circa 2006 – 2004 FBC
- Test report on Smoke Density per ASTM D2843, Rate of Burning per ASTM D 635 and Self Ignition per ASTM D 1929 of door plastic materials, prepared by ETC Laboratories, Test Report No. ETC-06-844-17497.1, dated 05/09/2006, signed and sealed by Joseph Labora Doldan, P.E.
 - ASTM D2843-99
 - ASTM D635-98
 - ASTM D1929-96
- Test report on Tension per ASTM E8 of door aluminum skin, prepared by ETC Laboratories, Test Report No. ETC-06-844-17585.0, dated 05/08/2006, signed and sealed by Joseph Labora Doldan, P.E.
 - ASTM E8 (revision year not recorded)

Plastics Certifications

- Test report on Smoke Density per ASTM D2843, Rate of Burning per ASTM D 635 and Self Ignition per ASTM D 1929 of door plastic materials, prepared by ETC Laboratories, Test Report No. ETC-06-844-17497.1, dated 05/09/2006, signed and sealed by Joseph Labora Doldan, P.E.
 - This testing report considered the following components comprised of plastic materials.
 - HD Roller
 - End Piece
 - Guide Roller
 - Panel Slat Seal



PTC Product Design Group, LLC | PO Box 520775 | Longwood, FL 32752-0775
321-690-1788 | FBPE Certification of Authorization No. 25935

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- Side Columns Seals
- Test results for all the above components met FBC requirements as follows.
 - ASTM D2843
 - Smoke Density, worst case = 69.2% < 75% meets FBC requirements.
 - ASTM D635
 - Rate of Burning = CC1 and CC2 meets FBC requirements
 - ASTM D1929-96
 - Self-Ignition Temperature, worst case is 670°F > 650°F meets FBC requirements.

Additional Certifications - Optional Panel Slat Insulation

- EPS (Expanded Polystyrene Foam) manufactured by Kingspan Insulation, LLC dba Dynaplast Products per current Miami-Dade notice of acceptance (NOA).
- ISO-C1 Polyisocyanurate Rigid Foam manufactured by Kingspan Insulation, LLC dba Dynaplast Products per current Miami-Dade notice of acceptance (NOA).

Installation Instructions

- PTC Product Design Group Drawing No. 9B963, Rev. 12, dated 8/25/23, Spiral Rollup Doors, Models SST-HZ and SSN-HZ, Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.

Engineering Analysis: The following engineering and/or rational analysis/calculations have been performed.

- Anchorage has been substantiated by calculation (PTC Report. No. 2749-CER) prepared, signed, and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Product verification has been substantiated by rational analysis (PTC Report. No. 2749-RAER) prepared, signed, and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Product material substitution has been substantiated by engineering evaluation (PTC Report No. 2781-ER2) prepared, signed, and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.

Limitations & Conditions of Use

- This product has been evaluated for use inside the HVHZ (High Velocity Hurricane Zone). This product is Impact Resistance, therefore a protective impact-rated device (i.e., shutter(s)) is not required.
- 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 the 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.



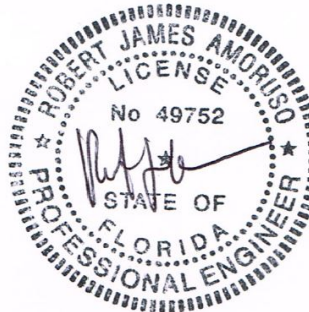
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Certificate of Independence per Product Approval Rule 61G20-3.009

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:
2023.09.01
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Evaluated by:
Robert J. Amoruso, P.E.
FL PE License No. 49752

