

Product Evaluation Report

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Manufacturer

HMF EXPRESS
2501 Northchase Parkway SE
Wilmington NC 28405

Product Series, Model and/or Description

Series HP steel Door, Inswing/Outswing, Impact (X) (HMF0001)
Series HSS Steel Door, Outswing, Impact (X, XX) (HMF0002)
Series HP Steel Door W/Wo Sidelight & Transom, Outswing, Impact (X, XO, O/XO) (HMF0003)
Series louvered / Glazed Steel Door, Outswing, Impact (X, XX) (HMF0004)
Series Flush Steel Commercial Door, Outswing, Impact (XX) (HMF0005)

Code: Current Edition of the Florida Building Code including 7th Edition (2020) FBC.

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

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

- PTC Product Design Group Drawing No. HMF0001, Rev. 1, dated 8/4/21, Series HP steel Door, Inswing/Outswing, Impact (X), Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.
 - Test Report No. TEL02990623, dated 5/15/2013 by Testing Evaluation Laboratories, Inc., signed and sealed by William B. Shelton, P.E., FL No. 26686.
 - TAS 201 - 1994
 - TAS 202 - 1994
 - TAS 203 - 1994
 - Test Report No. TEL02990624, dated 5/15/2013 by Testing Evaluation Laboratories, Inc..
 - ASTM E330-02
 - ASTM E331-00
 - ASTM E283-04
 - ASTM E1886-05
 - ASTM E1996-06
 - Test Report No. TEL02991411, dated 8/24/2015 by Testing Evaluation Laboratories, Inc., signed and sealed by William B. Shelton, P.E., FL No. 26686.
 - TAS 201 - 1994
 - TAS 202 - 1994
 - TAS 203 – 1994
- PTC Product Design Group Drawing No. HMF0002, Rev. 1, dated 8/4/21, Series HSS Steel Door, Outswing, Impact (X, XX), Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.
 - Test Report No. CTLA 887W Revised, dated 4/2/2003 by Certified Testing Laboratories, Inc., signed and sealed by Ramesh Patel, P.E., FL No. 20224.
 - TAS 201 - 1994
 - TAS 202 - 1994
 - TAS 203 – 1994
 - Test Report No. CTLA 887W-1 Revised, dated 4/2/2003 by Certified Testing Laboratories, Inc., signed and sealed by Ramesh Patel, P.E., FL No. 20224.
 - TAS 201 - 1994
 - TAS 202 - 1994
 - TAS 203 – 1994
- PTC Product Design Group Drawing No. HMF0003, Rev. 1, dated 8/4/21, Series HP Steel Door W/Wo Sidelight & Transom, Outswing, Impact, Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.
 - Test Report No. TEL02991411, dated 8/24/2015 by Testing Evaluation Laboratories, Inc., signed and sealed by William B. Shelton, P.E., FL No. 26686.



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- TAS 201 - 1994
- TAS 202 - 1994
- TAS 203 - 1994
- PTC Product Design Group Drawing No. HMF0004, Rev. 1, dated 8/4/21, Series louvered / Glazed Steel Door, Outswing, Impact (X, XX), Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.
 - Test Report No. CTLA 1698W, dated 9/10/2007 by Certified Testing Laboratories, Inc., signed and sealed by Ramesh Patel, P.E., FL No. 20224.
 - ASTM E330-02
 - ASTM E1886-02
 - ASTM E1996-02
 - Test Report No. CTLA 1698W-1, dated 9/10/2007 by Certified Testing Laboratories, Inc., signed and sealed by Ramesh Patel, P.E., FL No. 20224.
 - ASTM E330-02
 - ASTM E1886-02
 - ASTM E1996-02
- PTC Product Design Group Drawing No. HMF0005, Rev. 1, dated 8/4/21, Series Flush Steel Commercial Door, Outswing, Impact (XX), Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL No. 49752.
 - Test Report No. CTLA 1098W Revised, dated 4/21/2003 by Certified Testing Laboratories, Inc., signed and sealed by Ramesh Patel, P.E., FL No. 20224.
 - TAS 201 - 1994
 - TAS 202 - 1994
 - TAS 203 - 1994

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

- Anchorage and product verification has been substantiated by calculation (PTC Report No. 2568-Calc) prepared, signed and sealed by Robert J. Amoruso, P.E. in accordance with the current edition of the Florida Building Code.
- Hardware substitutions have been evaluated (PTC Report No. 2568-Eval) in accordance with ANSI/WMA 100-18 using 2020 FBC Approval No. FL14482.3 and FL14482.5.

Limitations & Conditions of Use:

- The following products have been evaluated for use inside the HVHZ (High Velocity Hurricane Zone). These products are Impact Resistance, therefore a protective impact-rated device (i.e., shutter(s)) is not required.
 - Series HP steel Door, Inswing/Outswing, Impact (X) (HMF0001)
 - Series HSS Steel Door, Outswing, Impact (X, XX) (HMF0002)
 - Series HP Steel Door W/Wo Sidelight & Transom, Outswing, Impact (X, XO, O/XO) (HMF0003)
 - Series Flush Steel Commercial Door, Outswing, Impact (XX) (HMF0005)
- The following product has not 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.
 - Series louvered / Glazed Steel Door, Outswing, Impact (X, XX) (HMF0004)
- 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.



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- 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.

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

