

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2714-EER, Rev. 1 | Project No. 423-0209 | 7/30/2023 | Page 1 of 4

Product Manufacturer

Simpson Door Company
400 Simpson Ave.
McCleary, WA 98557

Product Name, Model and/or Description

Mahogany Thoro-Hung Westar Glazed Double Outswing Door - Impact Rated (SIMP0017)
Impact 10ft. Glazed Wood Entry Door (SIMP0018)
Impact 10ft. Opaque Wood Entry Door (SIMP0019)
Hemlock Fir I/S Door W/ & W/O Sidelites & Transom (SIMP0020)
Mahogany Inswing Door W/ & W/O Sidelites & Transom (SIMP0021)
Mahogany Opaque Single Outswing Door w/Sidelites & Transom (SIMP0022)
Hemlock/Fir Opaque Single Outswing Door w/Sidelites & Transom (SIMP0022)
Hemlock/Fir Glazed Double Inswing Door w/Sidelites (True Divided Lites) (SIMP0023)
Hemlock/Fir Glazed Double Outswing Door w/Sidelites (True Divided Lites) (SIMP0024)
High Impact Wood Inswing Doors with/without Sidelites & Transoms (SIMP0026)
High Impact Wood Outswing Doors with/without Sidelites & Transoms (SIMP0027)

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

Compliance Method: Product Approval Rule 61G20-3.015(4)(d) – Equivalency of Standards

Product Installation Drawings: By PTC Product Design Group, LLC.

- Drawing No. SIMP0017, Mahogany Thoro Hung Westar Glazed Double Outswing Door - Impact Rated – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0018, Impact 10ft. Glazed Wood Entry Door – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0019, Impact 10ft. Opaque Wood Entry Door – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0020, Hemlock Fir I/S Door W/ & W/O Sidelites & Transom – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0021, Mahogany Inswing Door W/ & W/O Sidelites & Transom – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0022, Mahogany Opaque Single Outswing Door w/Sidelites & Transom & Hemlock/Fir Opaque Single Outswing Door w/Sidelites & Transom – Installation Details, signed and sealed by Robert J. Amoruso, P.E. , FL License No. 49752.
- Drawing No. SIMP0023, Hemlock/Fir Glazed Double Inswing Door w/Sidelites (True Divided Lites) – Installation Details, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.
- Drawing No. SIMP0024, Hemlock/Fir Glazed Double Outswing Door w/Sidelites (True Divided Lites) – Installation Details, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.
- Drawing No. SIMP0026, Simpson Door Co., High Impact Wood Inswing Doors with/without Sidelites and Transoms – Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.
- Drawing No. SIMP0027, Simpson Door Co., High Impact Wood Outswing Doors with/without Sidelites and Transoms – Installation Anchorage Details, signed and sealed by Robert J. Amoruso, P.E., FL License No. 49752.

Product Performance Testing: By National Certified Testing Laboratories.

- SIMP0017
 - NCTL-210-4190-8, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-90
 - ASTM E-331-93
 - ASTM E-1886-02
 - ASTM E-1996-02
- SIMP0018 & SIMP0019
 - NCTL-210-4190-11, dated 09/03/20 to the following test procedures.



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- TAS 201-1994
 - TAS 202-1994
 - TAS 203-1994
- NCTL-210-4190-12, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-02
 - ASTM E-331-00
 - ASTM E-1886-02
 - ASTM E-1996-02
- NCTL-210-4190-13, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-02
 - ASTM E-331-00
 - ASTM E-1886-02
 - ASTM E-1996-02
- NCTL-210-4190-14, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-02
 - ASTM E-331-00
 - ASTM E-1886-02
 - ASTM E-1996-02
- NCTL-210-4190-15, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-02
 - ASTM E-331-00
 - ASTM E-1886-02
 - ASTM E-1996-02
- NCTL-210-3260-3, dated 02/19/07 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-02
 - ASTM E-331-00
 - ASTM E-1886-02
 - ASTM E-1996-02
- SIMP0020
 - NCTL-210-3029-2, dated 09/03/20 to the following test procedures.
 - ANSI/AAMA/NWWDA 101/I.S.2-97
- SIMP0021
 - NCTL-210-3029-1, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-90
 - ASTM E-331-93
- SIMP0022
 - NCTL-210-4190-3, dated 09/03/20 to the following test procedures.
 - ANSI/AAMA/NWWDA 101/I.S.2-97
 - NCTL- 210-4190-4, dated 09/03/20 to the following test procedures.
 - ANSI/AAMA/NWWDA 101/I.S.2-97
- SIMP0023
 - NCTL-210-4190-6, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-90
 - ASTM E-331-93



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- SIMP0024
 - NCTL-210-4190-5, dated 09/03/20 to the following test procedures.
 - ASTM E-283-91
 - ASTM E-330-90
 - ASTM E-331-93
- SIMP0026 & SIMP0027
 - NCTL-210-4190-16, dated 09/03/20 to the following test procedures.
 - ASTM E283-04
 - ASTM E330-02(10)
 - ASTM E331-00(09)
 - ASTM E547-00
 - ASTM E1886-05/09
 - ASTM E1996-06/09

Engineering Analysis & Evaluation:

- PTC Report No. 2714, *Simpson Door Co., Entry Doors, Product Evaluation Report*, dated 6/18/21, signed and sealed by Robert J. Amoruso, P.E., FL License Number 49752

Performance Testing Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

- NCTL-210-4190-11 listed above: Based upon my review of the testing methods and test results shown in the performance testing reports listed, the testing requirements in the current edition of the Florida Building Code – Testing Protocols TAS 201, TAS 202 and TAS 203 have been met.
- NCTL-210-4190-16 listed above: Based upon my review of the testing methods and test results shown in the performance testing reports listed above to the performance testing standards listed below, the testing requirements in the Current Edition of the Florida Building Code – Building and Residential Volumes have been met.

Performance Testing Standard	Test Standard Revision Level used in testing	Current Edition of the Florida Building Code Test Standard Revision Level Used for Comparison	
		Building Volume	Residential Volume
ASTM E330	02(10)	14	14
ASTM E283	04	04 (2012)	04 (2012)
ASTM E331	00 (2009)	00 (2009)	00 (2009)
ASTM E547	00	n/a	n/a
ASTM E1886	05	13a	13a
ASTM E1886	09	13a	13a
ASTM E1996	06	14a	14a
ASTM E1996	09	14a	14a

- All remaining Test Reports listed above: Based upon my review of the testing methods and test results shown in the performance testing reports listed above to the performance testing standards listed below, the testing requirements in the Current Edition of the Florida Building Code – Building and Residential Volumes have been met.



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Performance Testing Standard	Test Standard Revision Level used in testing	Current Edition of the Florida Building Code Test Standard Revision Level	
		Building Volume	Residential Volume
ASTM E330	90	14	14
ASTM E283	91	04 (2012)	04 (2012)
ASTM E331	93	00 (2009)	00 (2009)
ASTM E1886	02	13a	13a
ASTM E1996	02	14a	14a
ANSI/AAMA/NWWDA 101/I.S.2	97	AAMA/WDMA/CSA 101/I.S. 2/A440-08	AAMA/WDMA/CSA 101/I.S. 2/A440-08

ASTM E1996 TESTING EVALUATION:

- 1) Wind Zone 4 testing
 - a. ASTM E1996-14 moved Wind Zone 4 criteria to the non-mandatory appendix. As indicated in Appendix X4.1, ASTM E1996-14a, the Wind Zone 4 requirement, though non-mandatory, is still present and may be specified when needed to meet specific building codes requirements. Those requirements are detailed in Sections 1609.1.2.2, 1609.1.2.4 and 1609.3 of the Florida Building Code. Based on a review of the test reports, those parameters are met.
- 2) The Missile Level and Impact Speed used in testing are consistent with those currently required by the Florida Building Code and ASTM E1996.
- 3) The static load (ASTM E330) and cyclic load (ASTM E1886/E1996) parameters used in testing are consistent with those currently required by the Florida Building Code.

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 P.E. License Number 49752

