

Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2098-EER, Rev. 1 | Project No. 415-0511 | 6/14/15 | Page 1 of 2

Product Manufacturer

Eastern Architectural Systems
10030 Bavaria Road
Fort Myers, FL 33913

Product Name, Model and/or Description

Series HR 1000S Horizontal Roller - LMI/HVHZ
Series HRP 1000F Horizontal Roller - LMI/HVHZ

Code: Current Edition of the Florida Building Code

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

Product Testing, Materials and Certification:

- Test Reports by Element Materials Technology
 - AAMA/WDMA/CSA 101/I.S.2/A440, ASTM E1886 and ASTM E1996 testing:
 - ESP009274P EAS Series HR 1000F Equal Lite 111 X 72 Insulated LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 9/4/12.
 - ESP009274P-1 EAS Series HR 1000F Equal Lite 111 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 9/4/12.
 - ESP009274P-2 EAS Series HR 1000F Unequal Lite 111 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 9/4/12.
 - ESP009274P-3 EAS Series HR 1000S Equal Lite 74 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 9/4/12.
 - ESP009274P-4 EAS Series HR 1000S Equal Lite 74 X 72 Insulated LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 9/4/12.
 - TAS 201, TAS 202 and TAS 203 testing:
 - ESP009274P-5 EAS Series HR1000F Equal Lite 111 X 72 Insulated LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 8/30/12.
 - ESP009274P-6 EAS Series HR1000F Equal Lite 111 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 8/30/12.
 - ESP009274P-7 EAS Series HR1000F Unequal Lite 111 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 8/30/12.
 - ESP009274P-8 EAS Series HR 1000S 74 X 72 Monolithic LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 8/30/12.
 - ESP009274P-9 EAS Series HR 1000S 74 X 72 Insulated LAMI Glass, signed and sealed by Ramesh C. Patel, P.E., 8/30/12.
- Materials:
 - Glass meets the requirements of ASTM E1300-04e01
 - Laminated Glass Interlayer:
 - Eastman Chemical Company (MA) Saflex PVB interlayer material certification per current Miami-Dade Notice of Acceptance (NOA).

Performance Testing Standards:

- High Velocity Hurricane Zone (HVHZ)
 - TAS201-94, Impact Test Procedures.
 - TAS202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
 - TAS203-94, Criteria for Testing Products Subjected to Cyclic Wind Pressure Loading.
- Outside High Velocity Hurricane Zone (HVHZ) including the Wind Borne Debris Region
 - AAMA/WDMA/CSA 101/I.S.2/A440-05, Standard/Specification for windows, doors, and unit skylights.
 - ASTM E1886-05, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.



Equivalency Evaluation Report

Rule 61G20-3 F.A.C. | Report No. 2098-EER, Rev. 1 | Project No. 415-0511 | 6/14/15 | Page 2 of 2

- ASTM E1996-06 Standard Specification for Performance of Exterior Windows, Curtain Walls, Doors and Impact Protective Systems Impacted by Windborne Debris in Hurricanes.

Product Installation Instructions:

- EAS0001, Rev. A, dated 6/12/15, signed and sealed by Robert J. Amoruso, Eastern Architectural Systems Series HR 1000S Horizontal Roller - LMI/HVHZ, Installation Anchorage Details
- EAS0002, Rev. A, dated 6/12/15, signed and sealed by Robert J. Amoruso, Eastern Architectural Systems Series HRP 1000F Horizontal Roller - LMI/HVHZ, Installation Anchorage Details

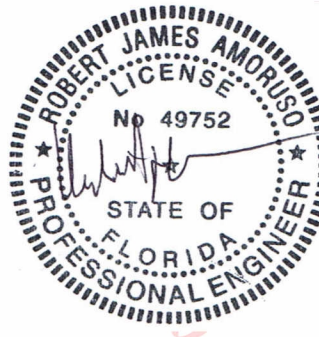
Performance Testing Equivalency Evaluation per Product Approval Rule 61G20-3.015(4)(d):

- Based upon my review of the testing methods and test results shown in the performance testing reports listed above, the testing requirements in the current edition of the Florida Building Code – Testing Protocols TAS 201, TAS 202 and TAS 203 have been met.
- All other listed performance testing standards used in testing are referred to in the current edition of the Florida Building Code – Building and Residential Volumes.

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
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Date: 2015.06.14 16:32:37 -04'00'

Evaluated By:
Robert J. Amoruso, P.E.
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