

W. W. Schaefer Engineering & Consulting, P.A. (CA #6809)

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ENGINEER'S EVALUATION REPORT #WWS-178

Prepared for:

St. Cloud Window, Inc.
390 Industrial Blvd.
Sauk Rapids, MN 56379
Phone: 320-251-9311

Prepared by:

Warren W. Schaefer, P.E.
Florida Professional Engineer #44135

Manufacturer: St. Cloud Window, Inc.

Product Category: Windows

Product Sub-Category: Mullions

Evaluation Method: 1-D (Engineer's evaluation)

Product model & name: 900 Series Impact I-bar Mullion

Documents that must accompany this report:

1. W. W. Schaefer Engineering & Consulting drawing No. 1720

Mullion size restrictions and assembly requirements:

See drawing NO. 1720

Maximum allowable design pressure:

See drawing 1720 for mulled unit pressures.

Installation requirements:

See drawing No. 1720

Code compliance:

Code section(s) considered with this evaluation:

FBC Chapters 17 & 26

Test Standards applicable to the testing of these mullions:

TAS-201, 202 & 203

Test Laboratory: Architectural Testing, Inc. (ATI)

Test report number: A1950.01-201-18

General report notes & system limitations:

1. All size, pressure & installation conditions shown in this report and the referenced drawing No. 1720 are based off the referenced test reports and/or engineering analysis in accordance with the Florida Building Code.
2. Mullions shall be constructed in accordance with the descriptions in this report, and the manufacturer's state approved quality assurance entity specifications.
3. This product is approved for use in & outside of the High Velocity Hurricane Zones (HVHZ).
4. Job required design wind pressure shall be calculated in accordance with the Florida Building Code Chapter 16 and ASCE 7 Minimum Design Loads for Buildings and Other Structures (0.85 directionality factor may apply).
5. These mullions are both small & large missile impact rated for use in wind zone 4 & missile level "D" locations and need not be shuttered.
6. Debridging/thermal breaks were tested in accordance with ASTM G26, D638, D2843, D635 & D1929 per FBC.
7. Windows applicable with this mullion include St. Cloud Window, Inc. 960 Fixed, 920 Double Hung & 940 Sliding windows.

Quality Assurance Entity: (ATI) Architectural Testing, Inc., York, PA

JAN 12 2015

Warren W. Schaefer, P.E.
Florida P.E. #44135

