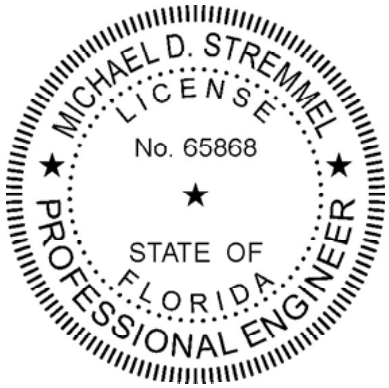
PRODUCT EVALUATION

8800 Sliding Glass Door – Impact

REPORT TO:

WINCORE WINDOWS & DOORS
250 STAUNTON TURNPIKE
PARKERSBURG, WEST VIRGINIA 26104

REPORT NUMBER: 27675.07-107-16-R0
REPORT DATE: 12/13/23



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Michael D. Stremmel, PE
FL PE 65868
FL REG 37122

Subject: 8800 Sliding Glass Door (XXO) Impact
Wincore Windows & Doors
250 Staunton Turnpike
Parkersburg, West Virginia 26104

Scope: Product Evaluation per Chapter 61G20-3.005(1)(d) Florida Administrative Code, Evaluation report from a Florida Registered Architect or a Licensed Florida Professional Engineer.

Building Code Compliance: This product has demonstrated compliance with the Florida Building Code, Building, 8th Edition (2023):

§1609.1.2 Protection of Openings
§1709.5 Exterior window and door assemblies
§2404 Wind and Dead Loads on Glass

Performance Standards: AAMA/WDMA/CSA 101/I.S.2/A440-11
ASTM E1996-14a, ASTM E1886-13a
ASTM E1300-12ae1

Product Description: Door Frame Extruded Rigid (PVC) Vinyl
Corners are square cut and mechanically fastened with screws.

Door Sash Extruded Rigid (PVC) Vinyl
Corners are miter cut and thermally welded. Steel and aluminum reinforced stiles.

Glazing Validate Glazing with ASTM E1300

Glazing Type	Glazing Construction
1	3/16" Tempered Glass (Exterior) (2) 1/8" Annealed Glass with 0.090" PVB (Eastman *Saflex*)

Exterior glazed against silicone back bedding (Sika *Sikaflex 552*). Exterior, snap-in PVC glazing bead. 1/2" bite.

Anchorage Various anchorages (see *Installation*)

For additional product information see Appendix A and attached product drawings.

Installation: Wood: Minimum Spruce-Pine-Fir 2x (G = 0.42).
#10 Wood Screw (Shall conform to ANSI/ASME B18.6.1 and be corrosion resistant).

Steel Stud: Minimum 18 gauge (0.043" thick) 33 KSI steel stud.
#12-14 TEKS screw (see ICC ESR 1976).

Concrete: Minimum f'_c = 3,000 psi.
3/16" ITW Tapcon with Advanced Threadform Technology Concrete and Masonry Anchors (see NOA 22-0524.04).

Concrete Masonry: ASTM C90, minimum f'_m = 1,500 psi.
3/16" ITW Tapcon with Advanced Threadform Technology Concrete and Masonry Anchors (see NOA 22-0524.04).

Installation shall follow manufacturer's instructions, product approvals and the referenced installation drawings.

Limitations of Use:

Product	Glazing Type	Maximum Overall Size	Maximum Glazing Size	Approved Performance
8800 (XXO)	1	144" x 96"	42-1/4" x 85"	+/-50 psf Missile D Wind Zone 3

Products have been tested for windborne debris resistance and do not require protective devices (i.e. shutters) if installed in a windborne debris region.

Products are not approved for use in High Velocity Hurricane Zone (HVHZ).

Supporting Evidence: Test Report NCTL-110-23232-3 (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision -, 05/19/20
National Certified Testing Laboratories, Inc. York, PA (TST4744)

Test Report NCTL-110-23232-5 (ASTM E1996-14a, ASTM E1886-13a)
Revision -, 05/19/20
National Certified Testing Laboratories, Inc. York, PA (TST4744)

Calculation Report 27675.05-107-16
Revision -, 12/13/23
Michael D. Stremmel, PE (FL PE 65868)

Certification of Independence: In accordance with Rule 61G20-3 Florida Administrative Code, Molimo, LLC hereby certifies the following:

1. Molimo, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested or labeled by the agency.

2. Molimo, LLC is not owned, operated or controlled by any company manufacturing or distributing products it tests or labels.

3. Michael D. Stremmel, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the reports are being issued.

4. Michael D. Stremmel, P.E does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

Reference Drawings: 27675.05-1002 *8800 SGD Impact*. Revision -, 12/13/23.

Revision Log

Identification	Date	Page & Revision
Original Issue	12/13/23	Not Applicable

Appendix A – Detailed Product Description

Glazing Details: Exterior glazed against a silicone back bedding (Sika *Sikaflex 552*). Additionally secured with exterior, snap-in PVC glazing bead. Glass bite is 1/2".

Weatherstripping: Strip with 0.240" center fin. Two (2) rows at sash rails.
Strip with 0.240" center fin. One (1) row at meeting stiles.
Strip with 0.420" center fin. One (1) row at sill inserts.
Vinyl-wrapped foam gasket. Two (2) rows at jamb.
Dual durometer vinyl bulb gasket. One (1) row at jamb.
2.6"x1.5"x0.270" poly-pile pad. Head and sill track at meeting stiles.

Frame Construction: Extruded rigid (PVC) vinyl members. Butt joints at head secured with five (5) #10x2" pan head, stainless steel screws. Butt joints at sill secured with seven (7) #10x2" pan head, stainless steel screws. Butt joints sealed with small joint compound.

Sash Construction: Extruded rigid (PVC) vinyl members. Thermally welded miter joints.

Drainage: Sloped sill
1.185"x0.150" weeps. Three (3) at interior sill leg and three (3) at center sill leg.
1.040"x0.150" weeps. Each end of exterior sill track.
1.000"x0.150" weeps. Each end of sill screen track.
1.500"x0.200" weeps. Three (3) at exterior face of sill.
0.315"x0.090" weeps. Each end of glazing bead at bottom rail

Hardware: Handle kit (Roto) with two-point lock. Located at lock stile.
Metal lock keeper. Located at lock jamb.
Nylon roller with metal housing. Each end of each operable sash.
Aluminum roller guide. Located at sill track.

Reinforcement: 1.3mm roll formed steel. Lock stile.
2.0mm roll formed steel. Meeting stiles.
Extruded aluminum interlocks. Meeting stiles