

PRODUCT EVALUATION

5400/5400S/7700/9900 Sliding Glass Door – non-Impact

REPORT TO:

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

REPORT NUMBER: 27675.04-107-16-R0
REPORT DATE: 12/13/23

This item has been digitally signed
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PE on the date adjacent to the seal.

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

Subject: 5400/5400S/7700/9900 Sliding Glass Door (OXXXXO) non-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):
 §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 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-reinforced stiles.

Glazing Validate Glazing with ASTM E1300

Glazing Type	Glazing Construction
1	(2) 1/8" Tempered Glass
2	1/8" Tempered Glass (Exterior) (2) 1/8" Annealed Glass with 0.030" PVB (Interior)

Exterior glazed against silicone back bedding. 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	Maximum Design Pressures
5400/5400S/7700/9900 with retractable screen (OXXXXO)	1, 2	205" x 96"	29" x 84-5/8"	+25/-45 psf (see Note 1)
5400/5400S/7700/9900 (OXXXXO)	1, 2	205" x 96"	29" x 84-5/8"	+35/-45 psf (see Note 1)
5400/5400S/7700/9900 with retractable screen (OXXXXO)	1, 2	276" x 96"	41" x 84-5/8"	+15/-30 psf (see Note 2)
5400/5400S/7700/9900 (OXXXXO)	1, 2	276" x 96"	41" x 84-5/8"	+/-30 psf

- Notes:** 1. Doors installed under an overhang with Overhang Ratio ≥ 1 are exempt from water infiltration testing and may claim the maximum positive design pressure of +45 psf proven by testing (see FBC 1709.5.1 Exception 2).
2. Doors installed under an overhang with Overhang Ratio ≥ 1 are exempt from water infiltration testing and may claim the maximum positive design pressure of +30 psf proven by testing (see FBC 1709.5.1 Exception 2).

Products have not been tested for windborne debris resistance and 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 AI-05151-G1 (41) (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision -, 11/06/19
CLEB Laboratory, Inc. Varennes, Quebec Canada (TST6679)

Test Report AI-05151-G2 (41) (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision -, 11/06/19
CLEB Laboratory, Inc. Varennes, Quebec Canada (TST6679)

Test Report AI-05151-I1 (41) (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision 1, 11/06/19
CLEB Laboratory, Inc. Varennes, Quebec Canada (TST6679)

Test Report AI-05151-I2 (41) (AAMA/WDMA/CSA 101/I.S.2/A440-11)
Revision 1, 11/06/19
CLEB Laboratory, Inc. Varennes, Quebec Canada (TST6679)

Calculation Report 27675.03-107-16-R0
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:

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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: 27675.03-1001 5400/5400S/7700/9900 SGD Non-Impact. Revision -, 12/13/23.

Revision Log

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

Appendix A – Detailed Product Description

Glazing Details: Exterior glazed against a silicone back bedding. 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 0.420" center fin. One (1) row at sill inserts.
Vinyl-wrapped foam gasket. Two (2) rows at jamb.
Vinyl-wrapped foam gasket. Two (2) rows at astragal/meeting stile.
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. Six (6) at interior sill leg and six (6) 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. Six (6) 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.
Mortise lock and metal lock keeper. Located at lock stile.
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.
3.0mm roll formed steel. Astragal.