

# PRODUCT EVALUATION

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

#### **REPORT TO:**

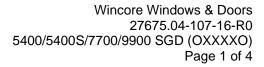
## WINCORE WINDOWS & DOORS 250 STAUNTON TURNPIKE PARKERSBURG, WEST VIRGINIA 26104

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

This item has been digitally signed and sealed by Michael D. Stremmel, 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, 8<sup>th</sup> 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.

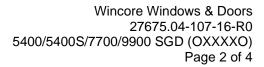
Glazing Validate Glazing with ASTM E1300

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  $f'_c = 3,000 \text{ psi.}$ 

3/16" ITW Tapcon with Advanced Threadform Technology Concrete and Masonry Anchors (see NOA 22-0524.04).

Concrete ASTM C90, minimum  $f'_m = 1,500 \text{ psi}$ .

Masonry: 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:**

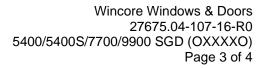
Product	Glazing Type	Maximum Overall Size	Maximum Glazing Size	Maximum Design Pressures
5400/5400S/7700/9900 with retractable screen (OXXXXO)	1, 2	205" x 96"	29" x 84-5/8"	+25/-45 psf (see Note 1)
5400/5400S/7700/9900 (OXXXXO)	1, 2	205" x 96"	29" x 84-5/8"	+35/-45 psf (see Note 1)
5400/5400S/7700/9900 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** In accordance with Rule 61G20-3 Florida Administrative Code,

**Independence:** 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

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

Drawings:

## **Revision Log**

<u>Identification</u> Date Page & Revision

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.