

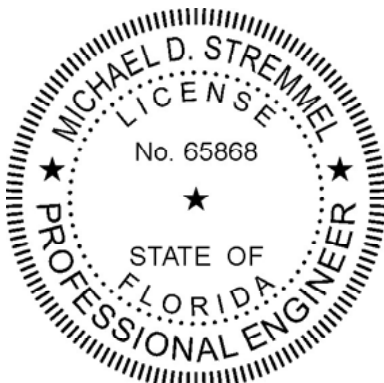
PRODUCT EVALUATION

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-R1
REPORT DATE: 8/17/2026



2026.08.17 07:25:59 -04'00'



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

This item has been digitally signed
and sealed by Michael D. Stremmel,
PE on the date adjacent to the seal.

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and the signature must be verified
on electronic copies.

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, 9th Edition (2026):
§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 E1300-16

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 24-0102.06).
- Concrete: ASTM C90, minimum $f'_m = 1,500$ psi.
 Masonry: 3/16" ITW Tapcon with Advanced Threadform Technology
 Concrete and Masonry Anchors (see NOA 24-0102.06).

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-R1
Revision 1, 8/17/26
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: 27675.03-1001 5400/5400S/7700/9900 SGD Non-Impact. Revision 1, 8/17/26.

Revision Log

<u>Identification</u>	<u>Date</u>	<u>Page & Revision</u>
Original Issue	12/13/23	Not Applicable
Revision 1	8/14/26	Updated report per the 2026 FBC

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.

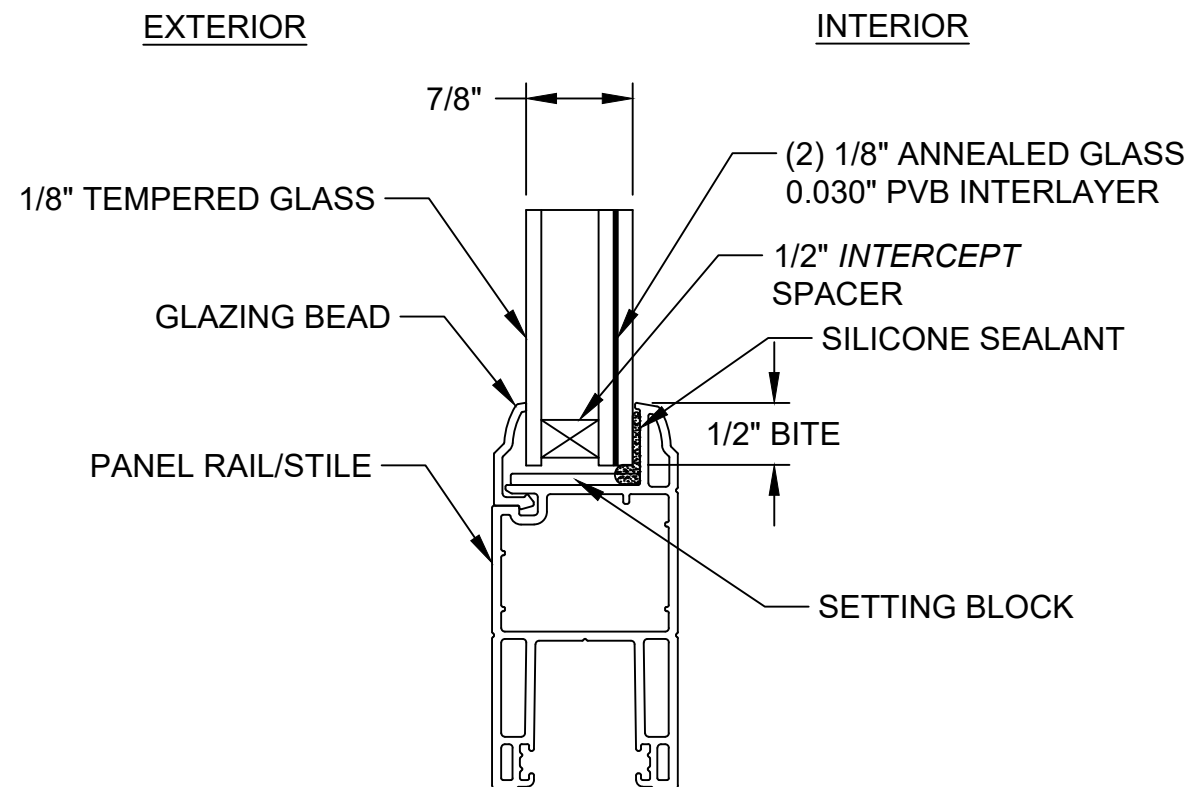
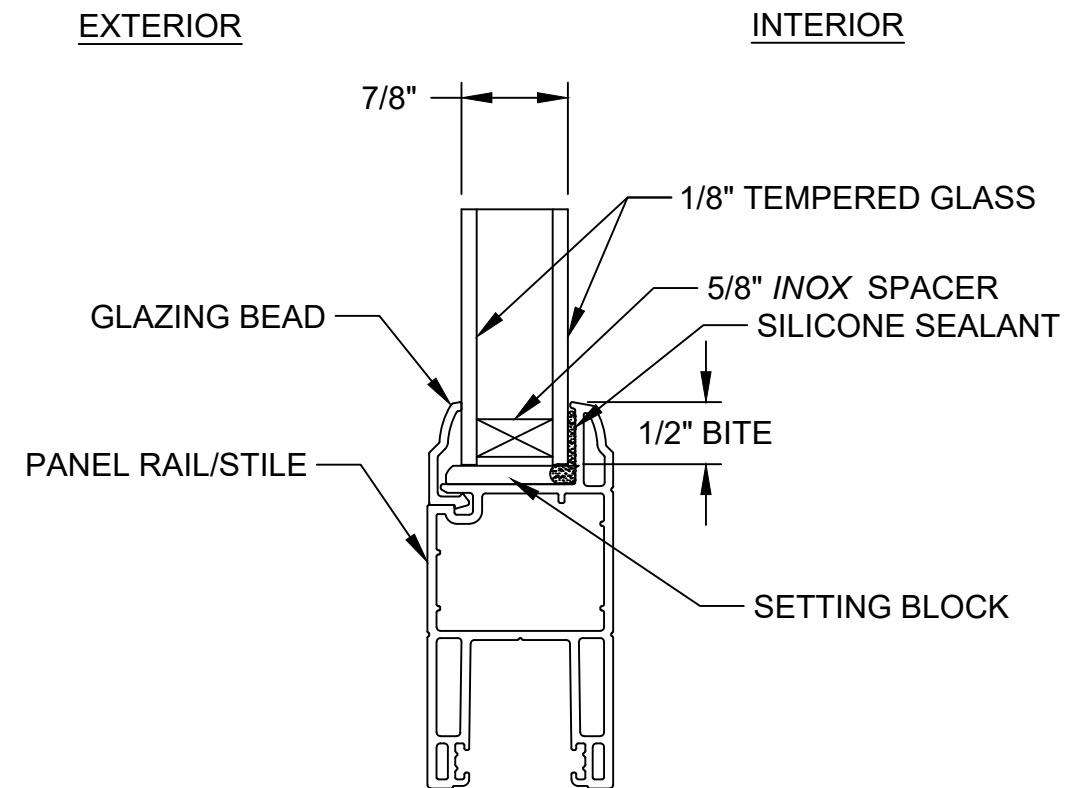
Frame Construction: Extruded rigid (PVC) vinyl members. Butt joints at head secured with five (5) #10x2" pan head, stainless steel screws. Butt joints at sill secured with seven (7) #10x2" pan head, stainless steel screws. Butt joints sealed with small joint compound.

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.



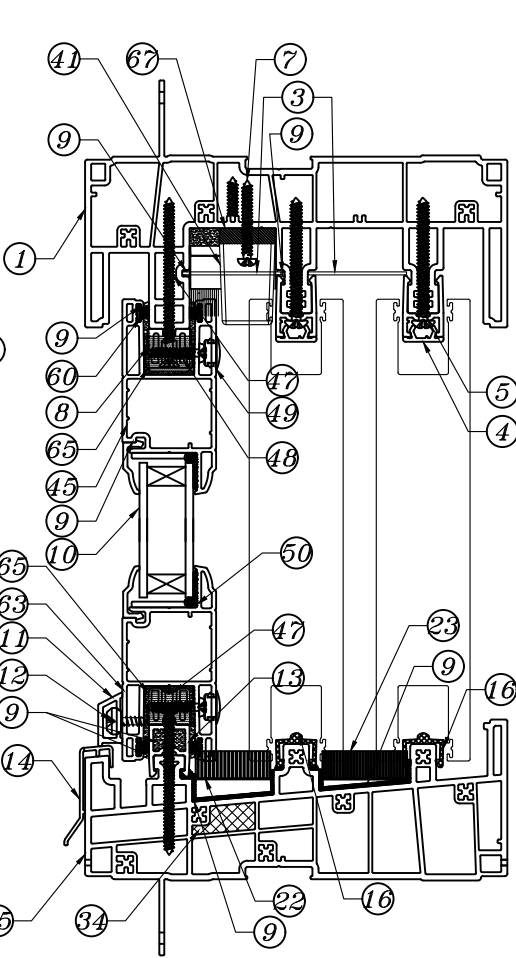
5400/5400S/7700/9900 SGD
Non-Impact
Glazing Detail

Wincore Windows & Doors
250 Staunton Turnpike
Parkersburg, WV 26104

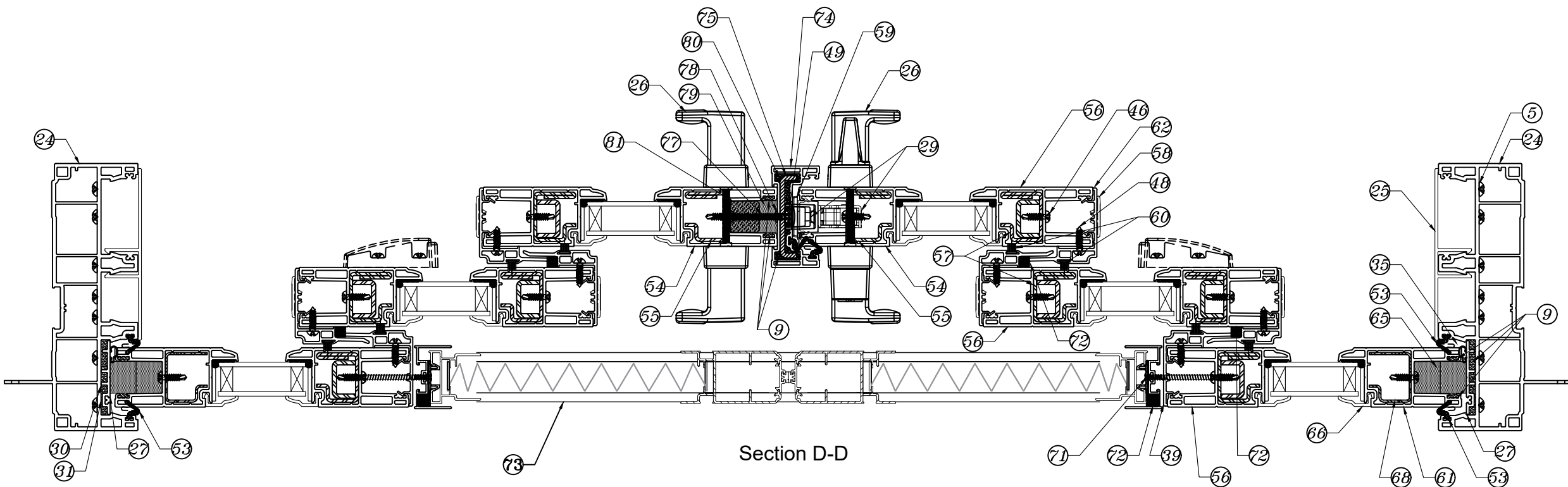
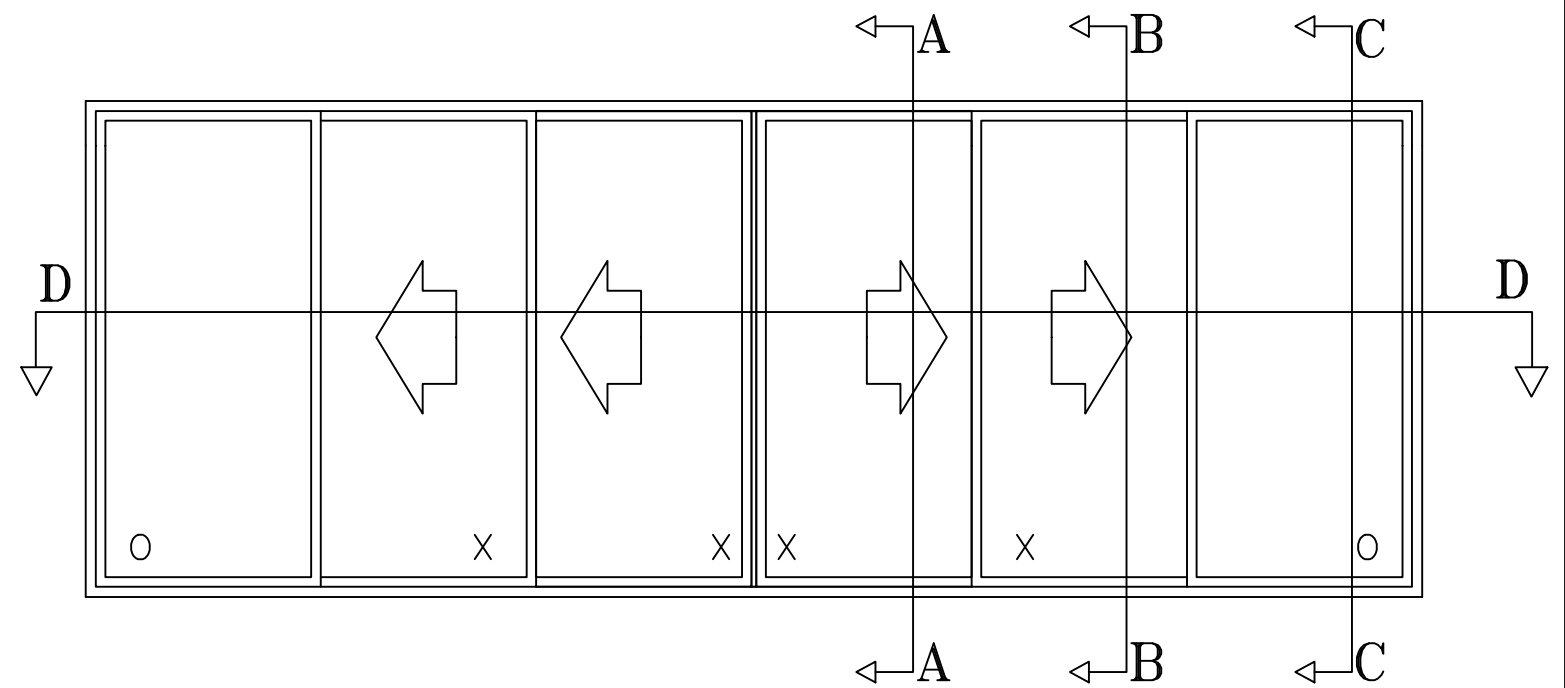
Drawing No.: 23550-3-1001
Project No.: 23550-3
Drawn By: JAR Rev: - Date: 09/24/20

Scale: NTS

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Section C-C



Section D-D

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<i>Item</i>	<i>PART No.</i>	<i>Item Description</i>	<i>Source</i>
1	8352, 8302, 8312, 8322, 8332, 8362, 8372, 8382	Head track profile	P.H. Tech
2	8321	Head track	P.H. Tech
3	8323	Head Cover (Option)	P.H. Tech
4	8331	Head Cover Rail	P.H. Tech
5	8942.VIS10	No 10 x 2", Pan head, Phillips, SS Screw	P.H. Tech
6	703	Head Weatherseal block	P.H. Tech
7	8941	No. 8-18 x 1 1/4", Pan head, Quadrex screw	P.H. Tech
8	7003	Fixed sash anchor block	P.H. Tech
9		Sealant	Various
10		Glass	Various
11	6352	Drip Cap	P.H. Tech
12	8813.VIS10	No. 10-12 x 5/8", special mushroom head, Quadrex	P.H. Tech
13	8301	Fixed Rail Support	P.H. Tech
14	9730	Sill cladding	P.H. Tech
15	8350, 8300, 8310, 8320, 8330, 8360, 8370, 8380	Sill track profile	P.H. Tech
16	9708	Sliding rail	P.H. Tech
17	8389.58.CAPEV	Cap (bumper of the central mobile sash)	P.H. Tech
18	8389.04.ARREV	Bumper (central mobile sash)	P.H. Tech
19	8397	Mobile sash anchor block (welded)	P.H. Tech
20	9732	Tandem Wheel	P.H. Tech (Truth)
21	9718	Sill protector	P.H. Tech
22	8371	Sill weatherseal block (33mm)	P.H. Tech
23	8381	Sill Weatherseal block (37mm)	P.H. Tech
24	8354, 8304 8314, 8324, 8334, 8364, 8374, 8384	Jamb track profile	P.H. Tech
25	8313	Jamb cover	P.H. Tech
26	9748	Handle Kit	P.H. Tech (Roto Fasco)
27	8303	Bulb weatherstrip adaptor	P.H. Tech
28	9581 9575	Weatherstrip	Ultrafab #T-GB-42027045-GY Schlegel #HF-7532-270
29	9250	Mortise Lock / Keeper kit	P.H. Tech (Roto Fasco)
30	8378	Frame Corner Gasket (Sill)	P.H. Tech
31	8379	Frame Corner Gasket (Head)	P.H. Tech
32	8781	Rail foam plug	P.H. Tech
33	8782	Anti bug foam (rail)	P.H. Tech
34	8783	Anti bug foam (sill)	P.H. Tech
35	8784	Fixed sash foam bloc	P.H. Tech
36	8387	Sill protector foam gasket (mobile)	P.H. Tech
37	8786	Bottom weatherstrip (center sash)	P.H. Tech
38	8787	Top weatherstrip (center sash)	P.H. Tech
39	8377	Sill protector foam gasket	P.H. Tech
40	8788	Rail foam plug	P.H. Tech
41	8940	Bumper	P.H. Tech
42	8703	Head block	P.H. Tech

<i>Item</i>	<i>PART No.</i>	<i>Item Description</i>	<i>Source</i>
43	8373	Spacer for blocks 703/8703	P.H. Tech
44			
45	7508.F	Fixed horizontal rail	P.H. Tech
46	9867.VIS08	No. 8-10 x 5/8", pan head, quadrex self-drilling screw	P.H. Tech
47	9619.VIS08	No. 8-15 x 2 3/4", flat head, Quadrex, Wood screw	P.H. Tech
48	9796.VIS08	No. 8-10 x 5/8", pan head, quadrex screw	P.H. Tech
49	9667	Screw Cap	P.H. Tech
50	8933	Setting block (glass)	P.H. Tech
51	7508.M	Mobile horizontal rail	P.H. Tech
52	7541	Tandem Wheel setting block	P.H. Tech
53	9584	Weatherstrip	Amesbury/Truth Foamtile #32343
54	7507-M	Mobile side stile (>2080)	P.H. Tech
55	9597	Mobile side stile steel reinforcement (6sashes)	P.H. Tech
56	7526	Meeting stile (>2080)	P.H. Tech
57	9528	Meeting stile steel reinforcement (>2080)	P.H. Tech
58	8842	Sliding cap	P.H. Tech
59	7523	Groove cover	P.H. Tech
60	9550	Weatherstrip	Schlegel #HF-7522-270 Nap #RPHF027023
61	7587-F	Fixed side stile (>2080)	P.H. Tech
62	7026	Interlock	P.H. Tech
63	8395-L/R	Drip Cap Cover (Left/Right)	P.H. Tech
64			
65	9853	Foam plug	P.H. Tech
66	5770, 5771, 5772, 5775, 5792, 5793, 5796	Glazing bead	P.H. Tech
67	8789	Spacer for bumper	P.H. Tech
68	9598-F	Fixed side stile steel reinforcement (>2080)	P.H. Tech
69	1489	Head Moulding for MultiPD with Screen	P.H. Tech
70		No 6 x 1-1/2"Pan Quadrex	Interlock USA
71	9785.VIS08	No. 8-15 x 2", truss head, Quadrex, Wood screw	P.H. Tech
72	8989	Compression Joint Foam Block	P.H. Tech
73	8335	Retractable screen (AIRE Slim or AIRE Grand)	Interlock USA
74	8326	Astragal	P.H. Tech
75	8760	Astragal steel reinforcement	P.H. Tech
76	9655	Astragal sealant	P.H. Tech
77	8772	No. 8 x 2", flat head, Quadrex screw, self drilling	P.H. Tech
78	8709	5/32 pop-rivet	P.H. Tech
79	9873	Corner block	P.H. Tech
80	8771	Astragal foam block	P.H. Tech
81	9135	Mullion block (2X)	P.H. Tech
* 82	Opti9584	Weatherstrip	Amesbury/Truth Foamtile #32343

5400/5400S/7700/9900 SGD

Non-Impact

Sections and BOM

Wincore Windows & Doors

250 Staunton Turnpike

Parkersburg, WV 26104

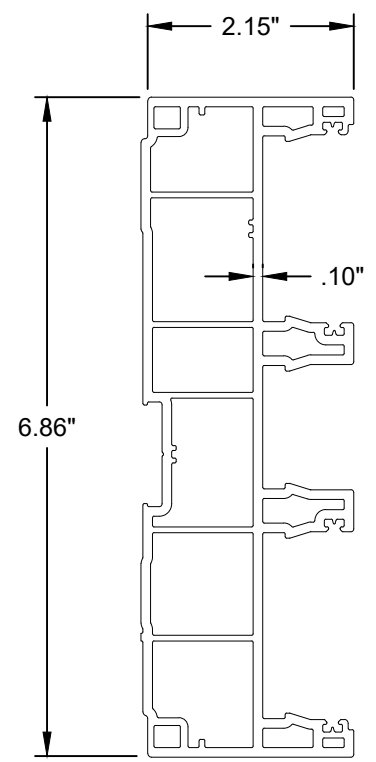
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Project No.: 23550-3

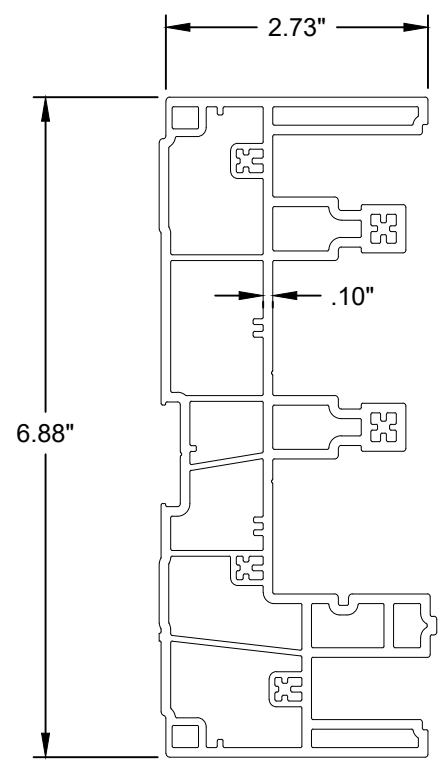
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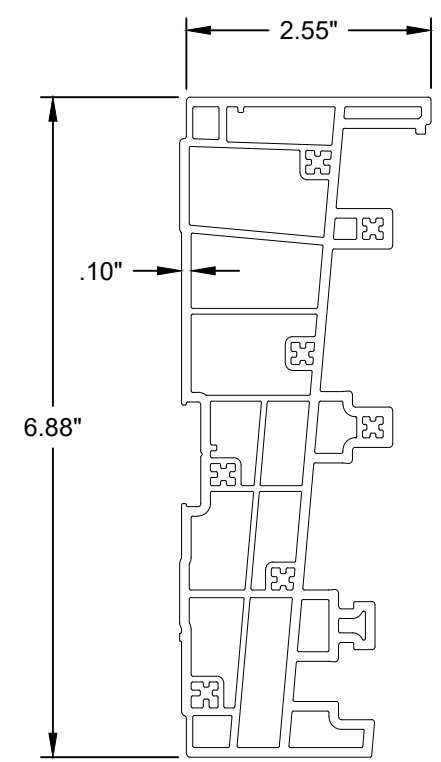
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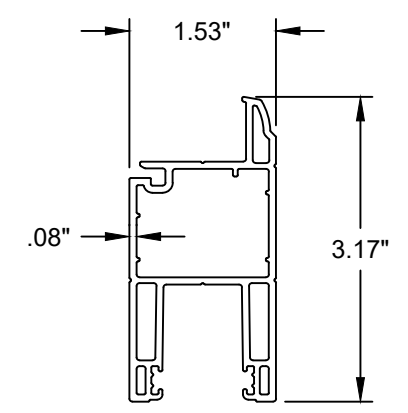
JAMB TRACK
PVC



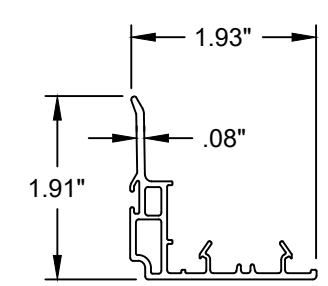
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PVC



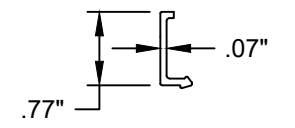
SILL TRACK
PVC



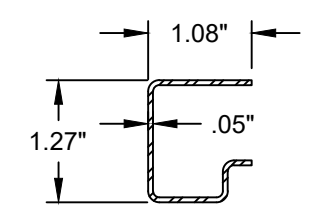
STILE/RAIL
PVC



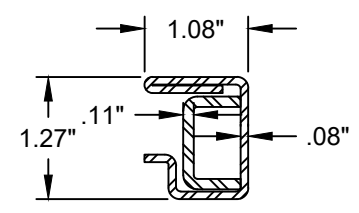
INTERLOCK
PVC



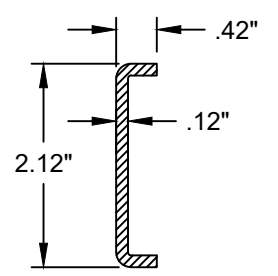
GLAZING BEAD
PVC



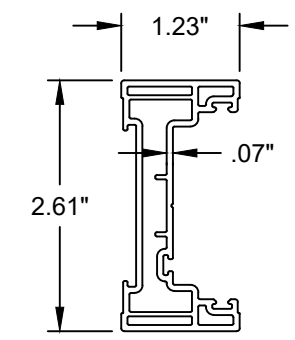
STILE REINFORCEMENT
STEEL



MEETING STILE REINFORCEMENT
STEEL



ASTRAGAL REINFORCEMENT
STEEL



ASTRAGAL
PVC

HARDWARE	
ITEM	LOCATION
HANDLE KIT (ROTO) WITH 2-POINT LOCK	LOCK STILES
MORTISE LOCK AND METAL KEEPER	LOCK STILES
NYLON ROLLER WITH METAL HOUSING	EACH END OF BOTTOM RAIL
ALUMINUM ROLLER GUIDE	SILL TRACK

5400/5400S/7700/9900 SGD
Non-Impact
Components

Wincore Windows & Doors
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