

TEST REPORT

Report No.: G6427.01-301-47

Rendered to:

CR LAURENCE CO., INC.
Vernon, California

PRODUCT TYPE: Sliding Glass Door (OXO)
SERIES/MODEL: 3000

SPECIFICATION(S): AAMA/WDMA/CSA 101/I.S.2/A440-11, *NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

Title	Summary of Results
AAMA/WDMA/CSA 101/I.S.2/A440-11	Class CW – PG40: Size Tested 3658 x 2438 mm (144 x 96 in) – Type SGD
Design Pressure	±1920 Pa (±40.10 psf)
Air Infiltration	0.4 L/s/m ² (0.08 cfm/ft ²)
Water Penetration Resistance Test Pressure	290 Pa (6.06 psf)

Test Completion Date: 12/16/16

Reference must be made to Report No. G6427.01-301-47, dated 01/10/17 for complete test specimen description and detailed test results.

1.0 Report Issued To: CR Laurence Co., Inc.
2100 East 38th Street
Vernon, California 90058

2.0 Test Laboratory: Architectural Testing, Inc., an Intertek company ("Intertek-ATI")
25800 Commercentre Drive
Lake Forest, California 92630
949-460-9600

3.0 Project Summary:

3.1 Product Type: Sliding Glass Door (OXO)

3.2 Series/Model: 3000

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method. The specimen tested successfully met the performance requirements for a **Class CW – PG40: Size Tested 3658 x 2438 mm (144 x 96 in) – Type SGD** rating.

3.4 Test Dates: 12/15/16 - 12/16/16

3.5 Test Record Retention End Date: All test records for this report will be retained until December 16, 2020.

3.6 Test Location: CR Laurence Co., Inc.'s test facility in Vernon, California. Calibration of test equipment was performed by Intertek-ATI in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories".

3.7 Test Specimen Source: The test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek-ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek-ATI and are representative of the test specimen reported herein. Test specimen construction was verified by Intertek-ATI per the drawings located in Appendix C. Any deviations are documented herein or on the drawings.

3.9 List of Official Observers:

<u>Name</u>	<u>Company</u>
Garrett Osterode	CR Laurence Co., Inc
Jarod S. Hardman	Intertek-ATI

4.0 Test Specification:

AAMA/WDMA/CSA 101/I.S.2/A440-11, NAFS 2011 - North American Fenestration Standard/Specification for Windows, Doors, and Skylights

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 6.9 m ² (96.0 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall Size	3658	144	2438	96
Active Panel	1250	49-7/32	2372	93-11/32
Screen	1245	49	2367	93-3/16

5.2 Frame Construction:

Frame Member	Material	Description
Head	Aluminum	4-1/2" block head, Part No. DT017, see attached drawing Page 2
Jambs	Aluminum	4-1/2" block jamb, Part No. DT016, see attached drawing Page 2
Sill	Aluminum	CW40 sill, Part No. D1027, see attached drawing Page 2

	Joinery Type	Detail
All Corners	Flush	Secured through jambs at each corner with #8 x 1" pan head Phillips sheet metal screws

5.0 Test Specimen Description:

5.3 Panel Construction:

Panel Member	Material	Description
Active Panel Stile	Aluminum	Lock stile, Part No. DT009, see attached drawing Page 2
Active Panel Stile	Aluminum	Interlock, Part No. DT050, see attached drawing Page 2
Active Panel Rail	Aluminum	Top rail, Part No. DT002, see attached drawing Page 2
Active Panel Rail	Aluminum	Bottom rail, Part No. DT051, see attached drawing Page 2
Fixed Panel Stile	Aluminum	Interlock, Part No. DT021, see attached drawing Page 2
Fixed Panel Stile	Aluminum	Stile, Part No. DT022, see attached drawing Page 2
Fixed Panel Rail	Aluminum	Top rail, Part No. DT002, see attached drawing Page 2
Fixed Panel Rail	Aluminum	Bottom rail, Part No. DT051, see attached drawing Page 2
Fixed Panel Astragal	Aluminum	OXO astragal adapter, Part No. DT015, see attached drawing Page 2
Fixed Panel Astragal	Aluminum	Snap in fill, Part No. 1S250, press fit into astragal on fixed lite side, see attached drawing Page 2

	Joinery Type	Detail
All Corners	Flush	Secured through stiles at each corner with #8 x 2" and #8 X 3" pan head Phillips sheet metal screws

5.0 Test Specimen Description:

5.4 Weatherstripping:

Description	Quantity	Location
Plain Pile, Part No W029330012	1 row	Inserted into interior face of strut at head and sill of frame
2 Finger Vinyl, Part No. VY002S	1 row	Inserted into exterior face of strut at head, jambs and sill of frame
2 Finger Vinyl, Part No. VY002S	2 rows	Inserted into exterior face of astragal strut on both fixed side and active side of astragal
Plain Pile, Part No W029330012	1 row	Inserted into interior face of strut at astragal on active side of astragal
Plain Pile, Part No W029330012	2 rows	Inserted into interlock of active panel on vent interlock isolator (Part No. VY004R)
0.270 x 0.250 Tri Fin Pile, Part No. W027330012	1 row	Inserted into fixed lite interlock on fixed interlock isolator (Part No. VY003R)
Super Bug Strip, Part No. VY006S	1 row	Inserted into fixed lite interlock on fixed interlock isolator (Part NO. VY003R)

5.5 Glazing: *No conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) can be made.*

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
1" IG	Aluminum Spacer – Dual Seal (A1-D)	1/4" clear tempered	1/4" clear tempered	Channel glazed with glazing gasket Part No. VY100S

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
Fixed Lite	2	1095 x 2210	43-1/8 x 87	5/8"
Active Panel	1	1095 x 2210	43-1/8 x 87	5/8"

5.0 Test Specimen Description: (Continued)

5.6 Drainage:

Drainage Method	Quantity	Location
Weep Hole w/ Cover and Baffle	12	Two at each corner of each lite, approximately 1" from each corner and 1" spacing at each location

5.7 Hardware:

Description	Quantity	Location
Active Panel Handle Assembly	1	Secured to panel at 42" from sill, Part No. BOH1011SN, see attached drawing Page #1
Stainless Steel Strike	1	Secured directly opposite handle assembly on fixed stile with two #12 x 4" Phillips flat head screws
Roller Assembly	2	1-13/16" Roller Housing, secured into bottom rail of active panel with 1/4"-20 x 1-3/4" and 1/4"-20 x 2-1/4" Phillips pan head machine screws

5.8 Reinforcement: No reinforcement was utilized.

5.9 Screen Construction:

Frame Material	Corner Construction	Mesh Type	Mesh Attachment Method
Aluminum	Corner key	Heavy duty fiberglass	Hollow spline

6.0 Installation:

The specimen was installed into a steel buck. The rough opening allowed for a 1/4" shim space. The interior and exterior perimeter of the window was sealed with silicone sealant.

Location	Anchor Description	Anchor Location
Through frame	#10 x 2" Phillips pan head sheet metal screw	4" from each corner and 18" on center spacing with two fasteners at each location

7.0 Test Results: The temperature during testing was 22°C (72°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 15.6 N (3.5 lbf) Maintain motion: 33.4 N (7.5 lbf) Locks: 26.7 N (6.0 lbf)	180 N (40 lbf) max. 115 N (25 lbf) max. 100 N (22.5 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.4 L/s/m ² (0.08 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	1
Water Penetration, per ASTM E 547 at 140 Pa (2.92 psf)	N/A	N/A	3
Water Penetration, per ASTM E 331 at 140 Pa (2.92psf)	N/A	N/A	3
Uniform Load Deflection, per ASTM E 330 Deflections taken at lock stile +720 Pa (+15.04 psf) -720 Pa (-15.04 psf)	N/A	N/A	3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at lock stile +1080 Pa (+22.56 psf) -1080 Pa (-22.56 psf)	N/A	N/A	3
Forced Entry Resistance, per ASTM F 842, Type: B - Grade: 10	Pass	No entry	
Forced Entry Resistance, per ASTM F 842, Type: D - Grade: 10	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf) Remaining direction, 230 N (50 lbf)	Pass Pass	Meets as stated Meets as stated	

7.0 Test Results: (Continued)

Optional Performance			
Title of Test	Results	Allowed	Note
Water Penetration, per ASTM E 547 at 290 Pa (6.06 psf)	Pass	No leakage	2
Water Penetration, per ASTM E 331 at 290 Pa (6.06 psf)	Pass	No leakage	2
Uniform Load Deflection, per ASTM E 330 Deflections taken at lock stile +1920 Pa (+40.10 psf) -1920 Pa (-40.10 psf)	9.7 mm (0.38") 9.1 mm (0.36")	12.7 mm (0.50") max. 12.7 mm (0.50") max.	4, 5
Uniform Load Structural, per ASTM E 330 Permanent sets taken at lock stile +2880 Pa (+60.15 psf) -2880 Pa (-60.15 psf)	0.3 mm (0.01") 0.3 mm (0.01")	6.6 mm (0.26") max. 6.6 mm (0.26") max.	4, 5

Note 1: The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

Note 2: With and without insect screen.

Note 3: The client opted to start at a pressure higher than the minimum required. Test results are reported under Optional Performance.

Note 4: Loads were held for 10 seconds.

Note 5: Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Intertek-ATI will service this report for the entire test record retention period. Test records such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained by Intertek-ATI for the entire test record retention period.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen tested. This report may not be reproduced, except in full, without the written approval of Intertek-ATI.

For ARCHITECTURAL TESTING, Inc.

Jarod S. Hardman
Laboratory Manager

JSH:ms

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Alteration Addendum (1)

Appendix-B: Location of Air Seal (1)

Appendix-C: Drawings (5)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	01/06/17	-	Original Issue
1	01/10/17	Cover, page 1	Revised product type to include OXO description



Test Report No.: G6427.01-301-47
Report Date: 01/06/17
Revision 1 Date: 01/10/17
Record Retention End Date: 12/16/20

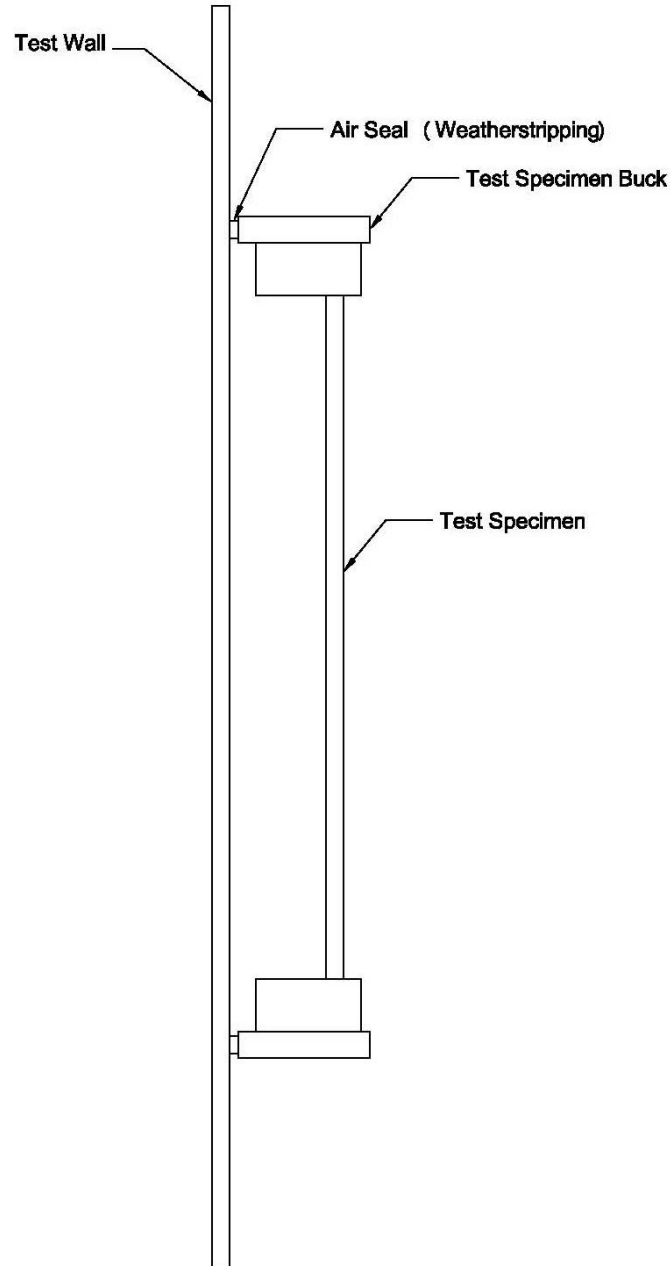
Appendix A

Alteration Addendum

Note: *No alterations were required.*

Appendix B

Location of Air Seal: The air seal between the test specimen and the test wall is detailed below. The seal is made of foam weatherstripping and is attached to the edge of the test specimen buck. The test specimen buck is placed against the test wall and clamped in place, compressing the weatherstripping and creating a seal.





Test Report No.: G6427.01-301-47
Report Date: 01/06/17
Revision 1 Date: 01/10/17
Record Retention End Date: 12/16/20

Appendix C

Drawings



Glazing Contractor:

SHT 1 OF 5

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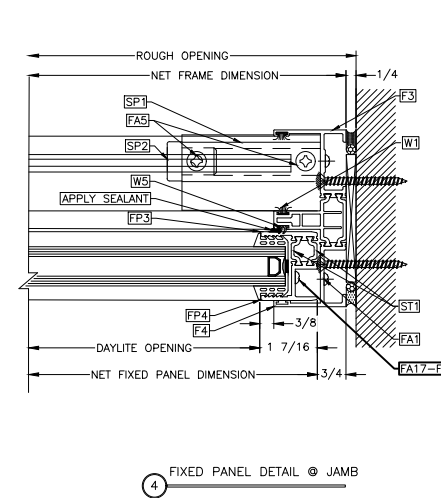
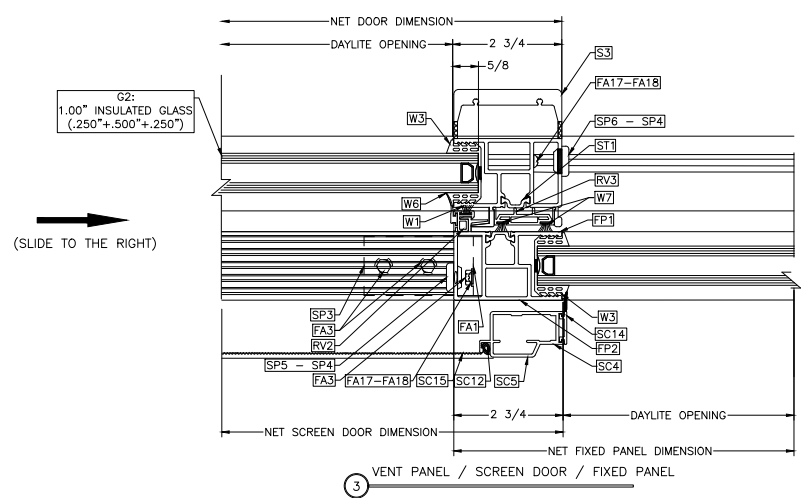
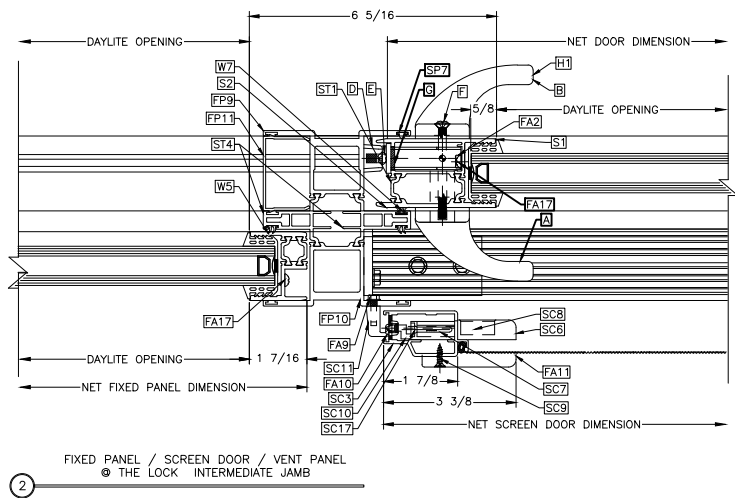
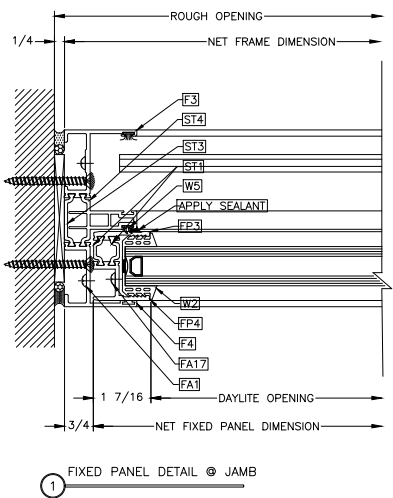
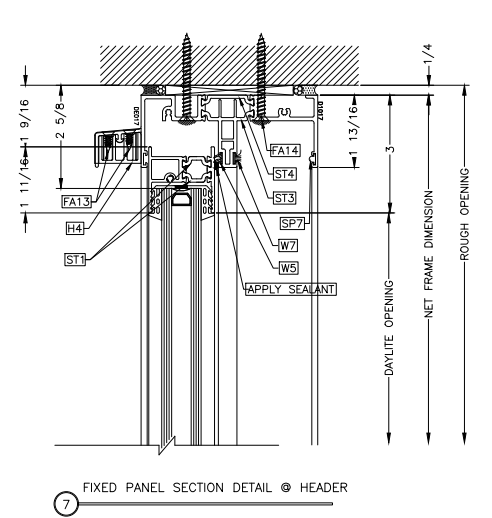
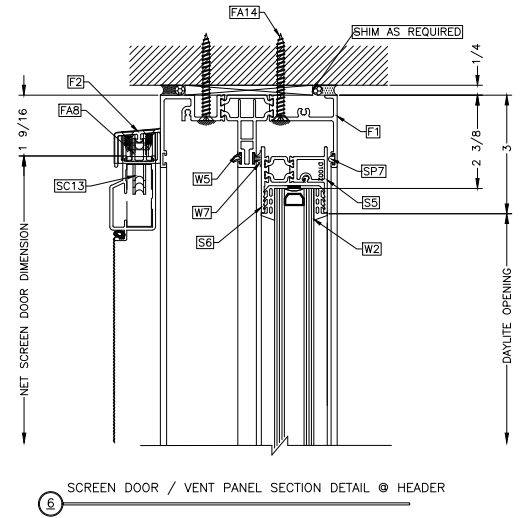
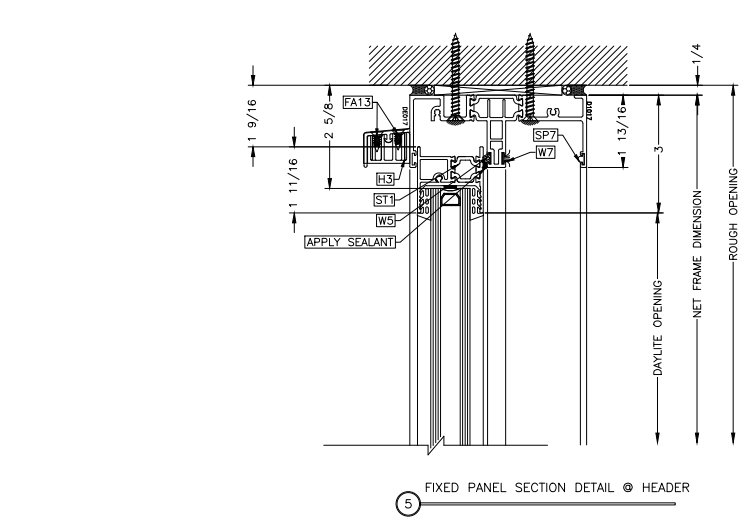
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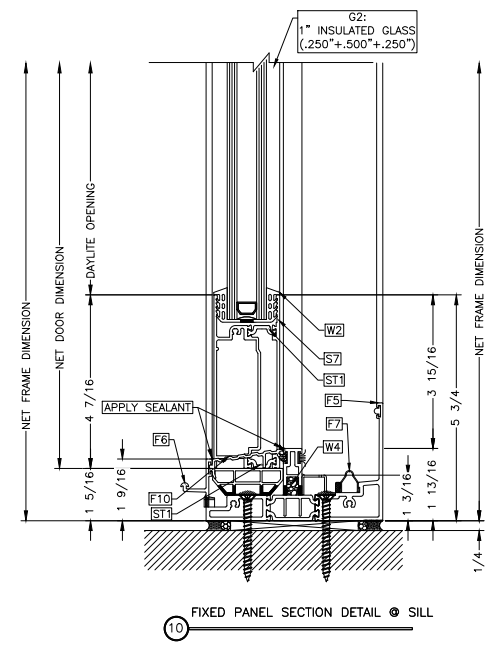
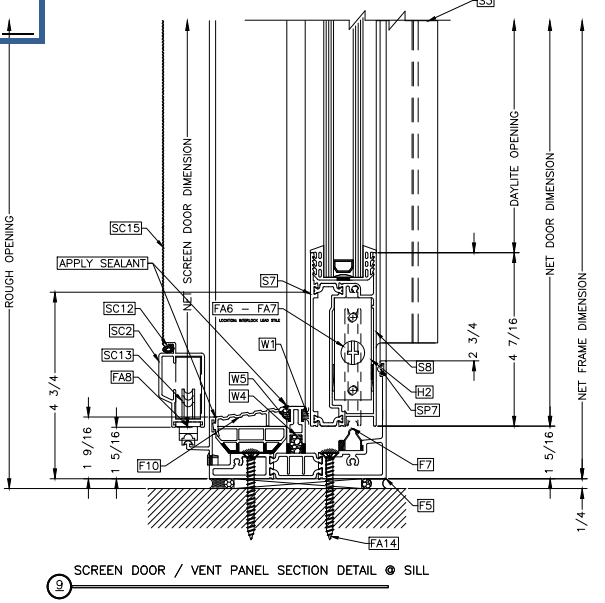
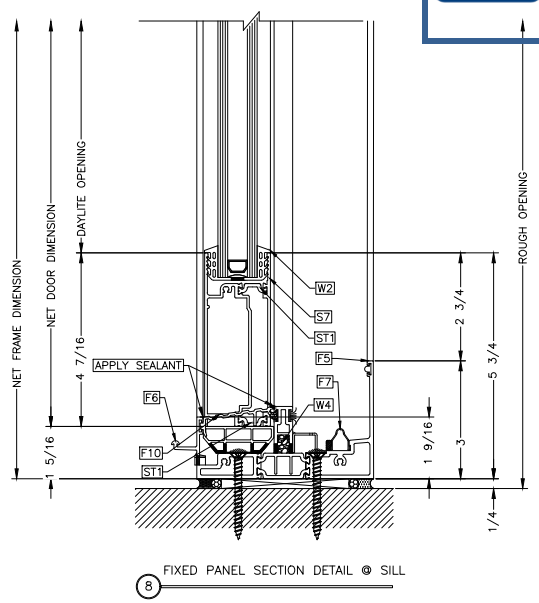
Glazing Contractor:

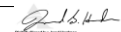
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SCALE: AS SHOWN
JOB #: PTC560161



Report #: G6427.01-301-47
Date: 01/06/17
Verified by: *[Signature]*

Intertek TEST MT
A B C D E



ITEM #		PART NO	DESCRIPTION	COMMENTS	QTY.
F1	FRAME	DT017	4-1/2" BLOCK HEAD – INTERIOR	COLOR TO MATCH P.O.	
F2			4-1/2" BLOCK HEAD – EXTERIOR	COLOR TO MATCH P.O.	
F3		DT016	4-1/2" BLOCK JAMB – INTERIOR	COLOR TO MATCH P.O.	
F4			4-1/2" BLOCK JAMB – EXTERIOR	COLOR TO MATCH P.O.	
F5		D1027	CW40/CW60 SILL – INTERIOR	COLOR TO MATCH P.O.	
F6					
F7		EL103	SS TRACK COVER	MILL FINISH	
F8		DU007	THRESHOLD CAP	COLOR TO MATCH P.O.	
S1	VENT PANEL	DT009	LEAD STILE – INTERIOR	COLOR MATCH TO P.O.	
S2			LEAD STILE – EXTERIOR	COLOR MATCH TO P.O.	
S3		DT050	CW40 VENT INTERLOCK – INTERIOR	COLOR MATCH TO P.O.	
S4				COLOR MATCH TO P.O.	
S5		DT002	VENT TOP RAIL – INTERIOR	COLOR MATCH TO P.O.	
S6			VENT TOP RAIL – EXTERIOR	COLOR MATCH TO P.O.	
S7		DT051	VENT BOTTOM RAIL – INTERIOR @EXT PANEL	COLOR MATCH TO P.O.	
S8			VENT BOTTOM RAIL – EXTERIOR @INT PANEL	COLOR MATCH TO P.O.	
FP1	FIXED PANEL	DT021	FIXED INTERLOCK – INTERIOR	COLOR MATCH TO P.O.	
FP2			FIXED INTERLOCK – EXTERIOR	COLOR MATCH TO P.O.	
FP3		DT022	FIXED STILE – INTERIOR	COLOR MATCH TO P.O.	
FP4			FIXED STILE – EXTERIOR	COLOR MATCH TO P.O.	
FP5		DT002	FIXED TOP RAIL – INTERIOR	COLOR MATCH TO P.O.	
FP6			FIXED TOP RAIL – EXTERIOR	COLOR MATCH TO P.O.	
S7		DT051	VENT BOTTOM RAIL – INTERIOR @EXT PANEL	COLOR MATCH TO P.O.	
S8			VENT BOTTOM RAIL – EXTERIOR @INT PANEL	COLOR MATCH TO P.O.	
FP9		DT015	(D1015) OXO ADAPTER INTERIOR	COLOR MATCH TO P.O.	
FP10			(DE015) OXO ADAPTER EXTERIOR	COLOR MATCH TO P.O.	
FP11		1S250	SNAP-IN FILL		
ST1	STRUTS	STR182	18.6 MM OFFSET STRUT	Report #: G6427.01-301-47 Date: 01/06/17 Verified by: 	
ST2		STR341	34M MM OFFSET STRUT		
ST3		STR342	34 MM FRAME ISOLATOR		
ST4		STR181	18.6 MM 90° STRUT		

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Glazing Contractor:

DATE: 5.16.2016

DRAWN BY: GDO

CHECKED BY: XX

SCALE: AS SHOWN

JOB #: PTC560161

SHT 3 OF 5

ITEM #		PART NO.	DESCRIPTION	COMMENTS	QTY
SP1	PARTS	HS3VPTP11	VENT STOP – EXTRUDED HOUSING	COLOR TO MATCH P.O.	1
SP2		BOH1009	VENT STOP – RUBBER BUMPER	COLOR TO MATCH P.O.	1
SP3		HS3FPCLIP	FIXED PANEL ”L” SHAPE ANCHOR CLIP	COLOR MATCH TO P.O.	2
SP4		BOH1006	3–1/2” RADIUS END PLUG	BLACK	2
SP5		BOH1005	2–1/4” RADIUS END PLUG – FIXED TOP RAIL	COLOR MATCH TO P.O.	1
SP6		BOH1007	ROUND END PLUG	BLACK	1
SP7		NP942	POLYETHYLENE RIGID STRIP	BLACK	A/R
SP8		WH276	WEEP HOLE COVER	BLACK	8
SP9		EC327BLN	CW40 SILL CAP	BLACK	2
SP10		EC355BLN	CW60 SILL CAP	BLACK	2
					2
W1	WEATHERSTRIP	W027330012	.270 x .250 TRI–FIN	BLACK	2
W2		VY100S	GLAZING GASKET – 1” GLASS	BLACK	A/R
W3		VY125S	GLAZING GASKET – 1.250” GLASS	BLACK	A/R
W4		UB3000	WEEP BAFFLE SILL CAN (.375 X .500X 2.500)		
W5		VY002S	2 FINGER VINYL	BLACK	A/R
W6		VY006S	SUPER BUG STRIP	BLACK	A/R
W7		W029330012	LIGHT DENSITY BLACK PILE, NO FIN		
G1	GLASS				
G2		GL103115429	1.000 INSULATED GLASS (.250” + .500 + .250”)		
FA1	FASTENERS	ST23042	#10 x 2” PHIL PAN HD SMS 18/8 SS	FRAME (4) + FIXED STRILE (2)	
FA2		ST26342	#10 x 3” PHIL PAN HD SMS 18/8 SS	V STILE(2) + V INTER’K (2) + F INTER’K (2)	
FA3		ST12042	#12 x 3/4” PHIL HEX WASHER HD SMS 18/8	FIXED PANEL CLIP – (3) AT HEAD & (3) AT SILL	
FA4		ST27442	#12 x 4” PHIL FLAT HD SMS 18/8 SS	STRIKE	
FA5		ST15343	#14 x 1–1/2” PHIL FLAT HD SMS 18/8 SS	VENT BUMPER	
FA6		MS23342	1/4–20 x 1–3/4” PHIL PAN HD MS 18/8 SS	2 AT ROLLER AT INTERLOCK	
FA7		MS23242	1/4–20 x 2–1/4” PHIL PAN HD MS 18/8 SS	2 AT ROLLER AT LEAD STILE	
FA8		ST20642	#8 x 1/2” PHIL PAN HD SMS 18/8 SS	2 AT EACH SCREEN ROLLER HOUSING	
FA9		MS13042	8–32 x 1/2” PHIL HEX WASHER HD MS 18/8 SS	2 AT SCREEN STRIKE	
FA10		ST43742	#6 x 1–1/2” PHIL PAN HD SMS 18/8 SS	1 @ SCREEN HOOK + 2 @ SCREEN HOUSING	
FA11		ST13843	#6 x 3/4” PHIL FLAT HD 18/8 SS (BLACK)	2 @ EXTERIOR SCREEN PULL	
FA12		50MF023ML	M3.8 X 18 PAN HD SELF DRILLING SCREW	4 EA PER SCREEN CORNER X 4 CORNER	
FA13		8X12FHPSMS	#8 x 1/2” PHIL FLAT HD 18/8 SS	2 EA PER SCREEN ROLLER X 4 CORNER	
FA14		ST13843	#6 x 3/4” PHIL FLAT HD 18/8 SS (BLACK)	HOLD THE HANDLE MOUNTING BRACKET	
FA15		10X112FHPSMS	10 X1–1/2 FLAT HEAD PHIL.S/M/S		
FA16		8X1PHPSMS316	No. 8 X 1 PAN HEAD PHIL.S/M/S 316 ALLOY S/S	MAIN FRAME, CORNER SCREWS	
FA17		8X2PHPSMS316	No. 8 X 2 PAN HEAD PHIL.S/M/S 316 ALLOY S/S	SIN FIX PANEL, 2 IN VENT PANEL	
FA18		8X3PHPSMS316	No. 8 X 3 PAN HEAD PHIL.S/M/S 316 ALLOY S/S	SIN FIX PANEL, 2 IN VENT PANEL	
FA19		8X58PHPSMS316	No. 8 X 5/8 PAN HEAD PHIL.S/M/S 316 ALLOY S/S		
FA20		6X34FHPSMSBL	No. 6 X 3/4 FLAT HEAD PHIL.S/M/S (BLACK)		
FA21		90273A838	No. 10–32 X 2 FLAT HEAD PHIL.S/M/S		



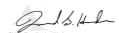
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01/06/17

Verified by:



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Job Name:

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OXO CONFIGURATION

Glazing Contractor:

DATE:

5.16.2016

DRAWN BY:

GDO

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XX

SCALE:

AS SHOWN

JOB #:

PTC560161

SHT

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OF

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ITEM #		PART NO.	DESCRIPTION	COMMENTS	QTY
H1	HARDWARE	BOH1011SN	ACTIVE HARDWARE KIT		
"A"			* EXTERIOR PULL HANDLE		
"B"			* INTERIOR PULL HANDLE WITH OR W/OUT THUMB TURN		
"C"			* THUMB TURN		
"D"			* STAINLESS STEEL STRIKE		
"E"			* # 12 x 4" PHIL FLAT HD SMS 18/8 SS (ITEM# FA4)		
"F"			* 10-32 x 2.250" PHIL OVAL HD MS SS		
"G"		BOH1016	MORTISE LOCK (BOH1016)		
H2		BOH1875SS	1-13/16" VENT ROLLER HOUSING	STAINLESS STEEL	
H3		HS3SCEC1GRY	RIGHT SIDE SCREEN THIN END CAP	TEK PARTS/AMESBURY	
H4		HS3SCEC3GRY	LEFT SIDE SCREEN THIN END CAP	TEK PARTS/AMESBURY	
SC1	SCREEN	SR301	TOP RAIL	COLOR MATCH TO P.O.	
SC2		SR301	BOTTOM RAIL	COLOR MATCH TO P.O.	
SC3		SR301	LOCK STILE	COLOR MATCH TO P.O.	
SC4		SR301	TRAILING STILE	COLOR MATCH TO P.O.	
SC5		50MA2416ML	CORNER ANGLE	MILL FINISH	
SC6		BOH1020	SCREW DOOR PULL & LATCH	BLACK	
SC7		BOH1021	STRIKE ADJUSTER	BLACK	
SC8		BOH1022	THUMB SLIDE	50% GRAY	
SC9		BOH1023	OUT SIDE PULL	BLACK	
SC10		BOH1024	HOOK	NATURAL NYLON	
SC11		A140	SLIDING SCR.DOOR LATCH STRIKE	COLOR MATCH TO P.O.	
SC12		FSS2000	SCREEN SPLINE	BLACK	
SC13		50MH071	SCREEN ROLLER HOUSING	BLACK	
SC14		VY007S	BUG STRIP	BLACK	
SC15		CF36	SCREEN CLOTH - 36" HEAVY-DUTY FIBERGLASS	CHARCOAL	
		CF48	SCREEN CLOTH - 48" HEAVY-DUTY FIBERGLASS	CHARCOAL	
		CF60	SCREEN CLOTH - 60" HEAVY-DUTY FIBERGLASS	CHARCOAL	
		CF72	SCREEN CLOTH - 72" HEAVY-DUTY FIBERGLASS	CHARCOAL	
SC16		VY001R	RIGID SCREEN ASTRAGAL FOR OXXO		
SC17		WH587GRY	SCREEN HANDLE MOUNTING BRACKET GRAY		
RV1	RIGID PVC	VY005R	SILL RISER	BLACK	
RV2		VY003R	FIXED INTERLOCK ISOLATOR	BLACK	
RV3		VY004R	VENT INTERLOCK ISOLATOR	BLACK	



Report #: G6427.01-301-47

Date: 01/06/17

Verified by: 

REVISIONS



C.R. LAURENCE CO.
ARCHITECTURAL PRODUCTS
2100 E. 38TH Street, Los Angeles, CA 90058
www.crlaurence.com

Job Name:

3000 SERIES SLIDER DOOR
OXO CONFIGURATION

Glazing Contractor:

DATE: 5.16.2016

DRAWN BY: GDO

CHECKED BY: XX

SCALE: AS SHOWN

JOB #: PTC560161

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