

CR LAURENCE CO., INC MIAMI-DADE TEST REPORT

SCOPE OF WORK TAS 201, TAS 202, AND TAS 203 TESTING ON IW8000/SINGLE HUNG WINDOW (SMI)

REPORT NUMBER J2605.01-303-18 R0

TEST DATE(S) 01/15/19-03/05/19

ISSUE DATE 03/14/19

RECORD RETENTION END DATE 03/05/29

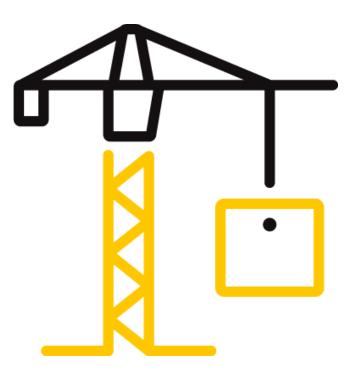
MIAMI-DADE COUNTY NOTIFICATION NO. ATI 18001

LABORATORY CERTIFICATION NO. 18-0524.05

PAGES

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TEST REPORT FOR CR LAURENCE CO., INC

Report No.: J2605.01-303-18 R0 Date: 03/19/19

REPORT ISSUED TO

CR LAURENCE CO., INC. 2503 E. Vernon Ave. Los Angeles, California 90058

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by CR Laurence CO., Inc. to perform TAS 201, TAS 202, and TAS 203 testing in accordance with Miami-Dade County requirements on their IW8000, single hung window (SMI). Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at the Intertek B&C test facility in Lake Forest, CA. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

The specimens tested met the performance requirements set forth in the protocols.

Product Type: Single hung window (SMI) Series/Model: IW8000

SPEC.	TEST PROTOCOL		DESIGN	PRESSURE
	TAS 202		+80 / -80 psf	
	TAS 201/2	03 (Small Missile)	+80 / -80	psf
	TAS 201/2	03 (Small Missile)	+80 / -80	psf
	TAS 201/2	03 (Small Missile)	+80 / -80	psf
For INTERTEK B&C:				
COMPI	LETED BY:	Aaron Baker		REVIEWED B
		Technician – Build	ling &	
TITLE: Construe		Construction		TITLE:
SIGNA	TURE:			SIGNATURE:
DATE				
DATE:		03/19/19		DATE:

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SECTION 3

TEST METHOD(S)

The specimens were evaluated in accordance with the following:

TAS 201-94, Impact Test Procedures

TAS 202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure

TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

SECTION 4

MATERIAL SOURCE/INSTALLATION

Test specimens were provided by the client. Representative samples of the test specimen(s) will be retained by Intertek B&C for a minimum of ten years from the test completion date.

Then specimen was installed into a Spruce-Pine-Fir wood test buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the door was sealed with sealant. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Through Frame	#10 x 2-1/2" Flat Head Phillips Wood Screws	3" from corner at head and sill 12" on center; 4" from corners at jambs and 12" on center.

SECTION 5

EQUIPMENT

Cannon: Constructed from steel piping utilizing compressed air to propel the missile **Missile**: 2x4 Southern Pine

Timing Device: Electronic beam type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers



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SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Garrett Osterode	CR Laurence Co., Inc.
Aaron Baker	Intertek B&C
Jarod Hardman	Intertek B&C

SECTION 7

TEST SPECIMEN DESCRIPTION

Product Type: Single hung window (SMI) Series/Model: IW8000

Product Size(s):

OVERALL AREA:	WIDTH		HEIGHT		
3.5 m² (38.07 ft²)	millimeters	inches	millimeters	inches	
Overall Size	1526	60	2311	91	
Interior Sash	1472	58	762	30	

Frame Construction:

FRAME MEMBER	MATERIAL	DESCRIPTION
Head	Aluminum	Part No. SH812, See attached Drawings Section 10.
Jambs	Aluminum	Part No. SH814, See attached Drawings Section 10.
Sill	Aluminum	Part No. SH813, See attached Drawings Section 10.
Fixed Interlock	Aluminum	Part No. SH866, Secured through frame jambs with two #8 x 1" Phillip Hex Head fasteners into screw bosses. See Attached Drawings Section 10
Sill	PVC	Part No. WH811, snapped onto center leg. See attached Drawings Section 10.
Jambs	PVC	Part No. WH809 snapped onto jambs. See Attached drawings Section 10.



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FRAME MEMBER	MATERIAL	DESCRIPTION
Head	PVC	Part No. WH808, snapped onto center leg, See attached Drawings Section 10.
	JOINERY TYPE	DETAIL
All Corners	Coped	Secured through jambs with two #8 x 1" Hex Washer Head Screws into screw bosses.

Sash Construction:

SASH MEMBER	MATERIAL	DESCRIPTION
Interlock	Aluminum	Part No. SH854, See Attached Drawings Section 10
Stiles	Aluminum	Part No. SH855, See attached Drawings Section 10.
Bottom rail	Aluminum	Part No. SH852, See attached Drawings Section 10.
Interlock	Aluminum	Part No. SH858, See attached Drawings Section 10.
	JOINERY TYPE	DETAIL
All Corners	Coped	Secured through the stiles with four #8 x 1" Phillip Hex Head fasteners into screw bosses through balance catch clip.

Reinforcement: No reinforcement was utilized.

Weatherstripping:

DESCRIPTION	QUANTITY	LOCATION
Pile Gasket Triple Fin, 0.310" x 0.230", W-027.	1 row	Channel inserted full span of center leg of frame at sill and jambs.
Pile Gasket Triple Fin, 0.310" x 0.230", W-027.	1 row	Channel inserted full width of fixed and sash interlock.



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

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GLASS TYPE	SPACER TYPE	INTERIOR LITE	EXTERIOR LITE	GLAZING METHOD	
1-1/4" IG	Aluminum Spacer - Dual Seal (A1-D)	3/16" Clear Heat Strengthened -0.060" PVB inter layer -3/16" Clear Heat Strengthened	1/4" clear Tempered	Exterior set dry glazed with sponge gasket at interior face (Part No. NP881), and Wedge Gasket (Part No. WH416) with exterior glass stop (Part No. SH884).	

LOCATION	QUANTITY	DAYLIGHT OPENING		GLASS BITE
		millimeters	inches	
Fixed lite	1	1422 x 1426	56 x 56-1/8	1"
Sash	1	1346 x 638	53-25-1/8	1"

Drainage:

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Weep Hole w/ cover (Part No. WH276)	1-3/4" wide by 1/4" high	2	2-1/2" from jambs at exterior face of sill.

Hardware:

DESCRIPTION	QUANTITY	LOCATION			
PC Guide, Part No. NP 942	1 Row	Interior leg of frame at jambs and sill, see attached Drawings Section 10.			
AmesBury – Balance, Part No. K29095	2	Midspan of Right and Left Jambs see attached Drawings Section 10.			
Latch, Part No. SH858	2	Inserted into bottom rail 16-1/2" from each end of sash, see attached Drawings Section 10.			

Screen Construction: No screen was utilized



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SECTION 8

TEST RESULTS

Protocol TAS 202-94, Static Air Pressure

Test Date(s): 01/15/19 through 01/28/19

The temperature during testing was 19°C (66°F). The results are tabulated as follows:

Test Specimen #1

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage,			
Infiltration per TAS 202	0.6 L/s/m ²	1.5 L/s/m ²	
at 6.24 psf (50 mph)	(0.12 cfm/ft ²)	(0.30 cfm/ft ²) max.	1
Water Penetration,			
per TAS 202			
15% of Positive Design Pressure			
at 580 Pa (12.11 psf)	Pass	No leakage	
Forced Entry Resistance,			
Per ASTM F 588	Pass	No entry	

Note 1: Test Date 01/28/19 / Time: 8:00 AM (Air Note Only)

INDICATOR LOAD **DEFLECTION** (in.) **PERMANENT SET (in.)** (psf) LOCATION **ALLOWED MEASURED ALLOWED MEASURED** +60.15 1 0.06 N/A 0.02 N/A 50% of Test Pressure 2 0.23 N/A 0.02 N/A 3 0.08 N/A N/A 0.02 1 +80.20 0.08 N/A 0.01 N/A **Design Pressure** 2 0.30 N/A 0.02 N/A 3 N/A N/A 0.10 0.01 1 -60.15 N/A N/A 0.13 0.05 50% of Test Pressure 2 0.29 N/A 0.06 N/A 3 0.16 N/A 0.06 N/A 1 N/A N/A 0.02 -80.20 0.16 **Design Pressure** 2 0.36 N/A 0.02 N/A 3 0.16 N/A 0.02 N/A

Test Specimen #1: Preload and Design Load per TAS 202



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Test Specimen #1: Structural Overload Load per TAS 202

LOAD	INDICATOR	DEFLECTION (in.)		PERMANENT SET (in.)	
(psf)	LOCATION	MEASURED	ALLOWED	MEASURED	ALLOWED
+120.4	1	0.17	N/A	0.04	N/A
Test Pressure	2	0.51	N/A	0.05	N/A
	3	0.20	N/A	0.04	N/A
-120.4	1	0.32	N/A	0.05	N/A
Test Pressure	2	0.61	N/A	0.06	N/A
	3	0.31	N/A	0.05	N/A

Note 2: Positive and negative uniform static load test loads were held for 30 seconds.

Note 3: 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.

Note 4: See Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

Protocol TAS 201-94, Small Missile Impact Procedures

Test Date(s): 01/28/19 through 01/28/19

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

Test Specimen #2

IMPACT #	MISSILE WEIGHT (gram)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
Bottom left corner of sash	2	N/A	129.8
Top left corner of sash	2	N/A	129.5
Right side of sash midspan	2	N/A	130.0

Test Specimen #3

INADA CT #	MISSILE WEIGHT		
IMPACT #	(gram)	(in.)	(ft./sec.)
Bottom right corner of sash	2	N/A	129.5
Top right corner of sash	2	N/A	129.5
Left side of sash midspan	2	N/A	129.7



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Test Specimen #4

IMPACT #	MISSILE WEIGHT (gram)	MISSILE LENGTH (in.)	MISSILE VELOCITY (ft./sec.)
Center of interlock	2	N/A	129.5
Center of sash	2	N/A	129.6
Center of sill	2	N/A	130.1

Note 5: See Sketch #1 for impact locations.

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Date(s): 02/01/19 through 03/05/19

The temperature during testing was 21°C (70°F). The results are tabulated as follows:

Test Specimen #2: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 - 40.0	0-48.0	40.0 - 64.0	24.0-80.0
AVERAGE CYCLE TIME (sec.)	2.29	3.46	3.40	3.61
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0-80.0	40.0 - 64.0	0-48.0	16.0 - 40.0
AVERAGE CYCLE TIME (sec.)	2.87	3.38	3.51	3.03
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #2: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
At right jamb of interlock	0.11	0.01
Mid span of sill	0.14	0.01

Test Specimen #2: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
At right jamb of interlock	0.25	0.07
Mid span of sill	0.32	0.06

Note 6: See Sketch #1 for indicator locations.



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Test Specimen #3: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 - 40.0	0-48.0	40.0 - 64.0	24.0-80.0
AVERAGE CYCLE TIME (sec.)	2.53	3.68	2.93	3.90
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0 - 80.0	40.0 - 64.0	0-48.0	16.0 - 40.0
AVERAGE CYCLE TIME (sec.)	4.23	3.36	3.49	2.87
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #3: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
Center of interlock	0.33	0.00
Right sill	0.09	0.00

Test Specimen #3: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
Center of interlock	0.51	0.08
Right sill	0.41	0.00

Note 7: See Sketch #1 for indicator locations.



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Test Specimen #4: Cyclic Test Spectrum and Average Cycle Time per TAS 203

DESIGN PRESSURE	STAGE			
+80.0 / -80.0 psf	1	2	3	4
POSITIVE PRESSURE RANGE (psf)	16.0 - 40.0	0-48.0	40.0 - 64.0	24.0-80.0
AVERAGE CYCLE TIME (sec.)	2.80	3.23	3.70	3.65
NUMBER OF CYCLES	3500	300	600	100
	5	6	7	8
NEGATIVE PRESSURE RANGE (psf)	24.0 - 80.0	40.0 - 64.0	0-48.0	16.0 - 40.0
AVERAGE CYCLE TIME (sec.)	3.74	3.47	3.73	2.80
NUMBER OF CYCLES	50	1050	50	3350

Test Specimen #4: Positive Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
Center of interlock	0.28	0.01
Right sill at latch	0.08	0.00

Test Specimen #4: Negative Cyclic Load per TAS 203

INDICATOR LOCATION	MAXIMUM DEFLECTION (in.)	PERMANENT SET (in.)
Center of interlock	0.35	0.03
Right sill at latch	0.11	0.01

Note 8: See Sketch #1 for indicator locations.



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SECTION 9

CONCLUSIONS

The small missiles impacted each intended target. Each impact location was carefully inspected. No signs of penetration, rupture, or opening after the small missile impact test were observed; as such, each test specimen satisfies the small missile requirements of TAS 201. Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building.

AND

No signs of failure were observed in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202. Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building.

AND

No signs of failure were observed in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203. Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building.



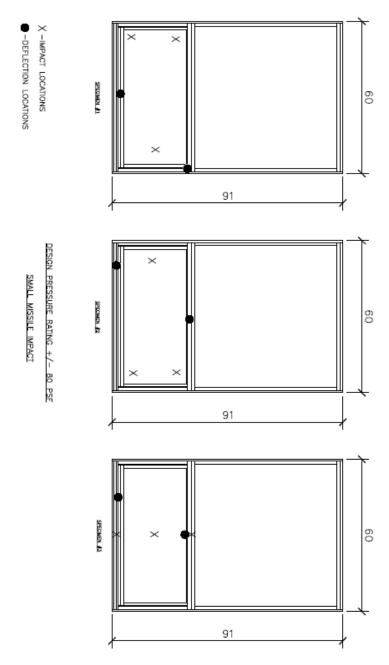
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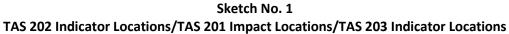
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SECTION 10

SKETCH

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25800 Commercentre Drive Lake Forest, California 92630

Telephone: 949-460-9600 Facsimile: 717-764-4129 www.intertek.com/building

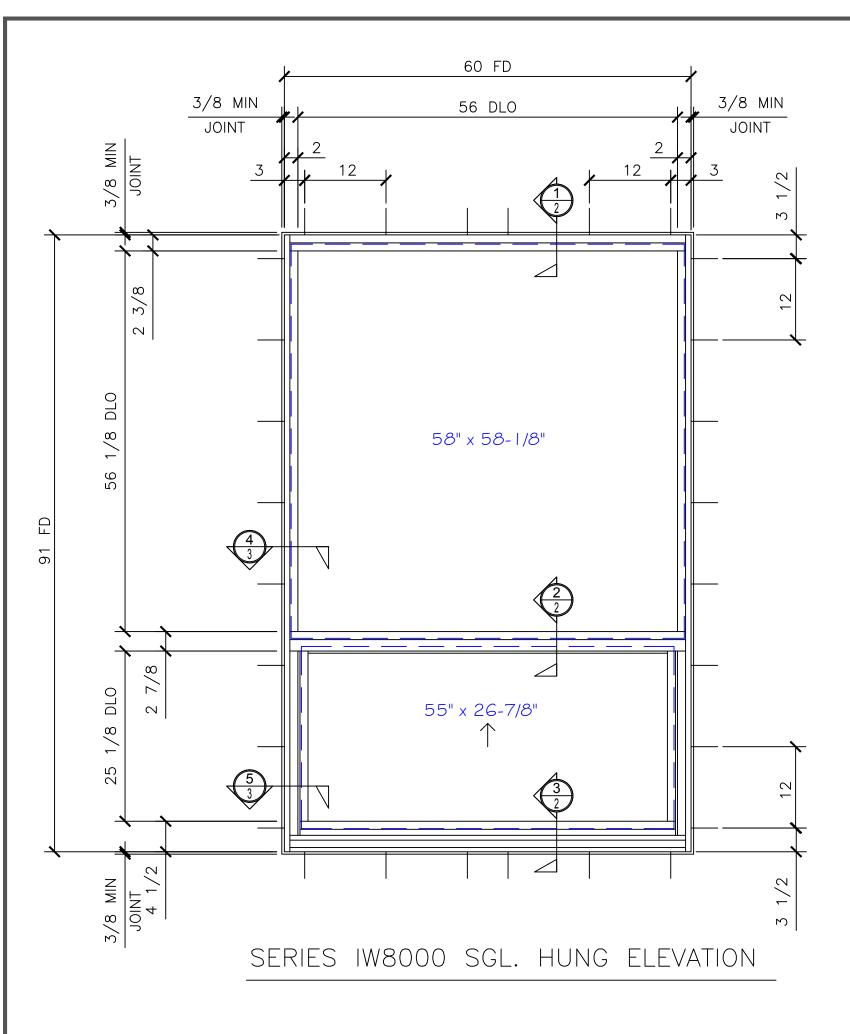
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SECTION 11

DRAWINGS

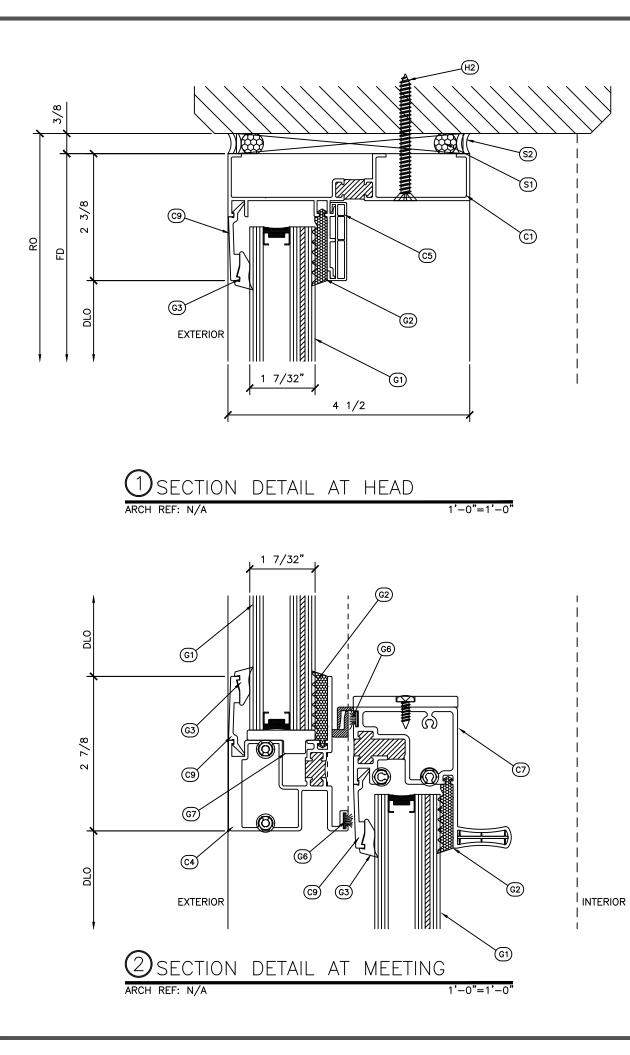
The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



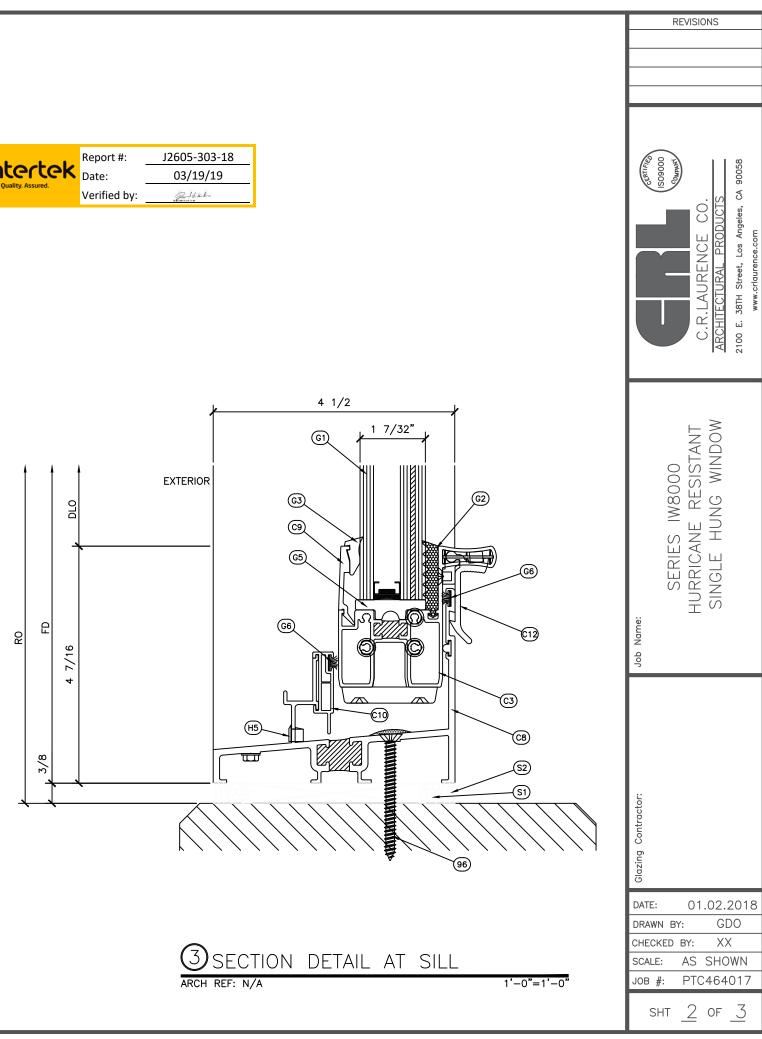
<u>ITEM</u>		<u>PT. NO.</u>	
C1		SH812	HEAD EXTRUSION
C2		SH814	JAMB EXTRUSION
C3		SH852	VENT EXTRUSION
C4		SH866	VENT EXTRUSION
C5		WH808	HEAD THERMAL ISOLATOR
C6	FRAME & SASH COMPONENTS	SH855	VENT STILE
C7	N	SH854	VENT HEAD EXTRUSION
C8	MP	SH813	SILL EXTRUSION
C9	8	SH884	GLAZING STOP
C10	HS/	WH811	ISOLATOR STRUT
C11	l ∕s	WH809	ISOLATOR STRUT
C12	Ш	SH858	INTERLOCK
	RAI		
	<u> </u>		
G1			1/4" TEMP X 1/2" A INSULATED GLASS
G2		NP881	SPONGE GASKET-EDPM
G3	G	WH416	WEDGE GASKET-EDPM
G4	GLAZING	NP942	PC GUIDE
G5	ILA.	SB811	SETTING BLOCK
G6	0	W-027	DUST GASKET
G7		SB882	SETTING BLOCK
H1		10X1HWSMS	#10 X 1" HEX WASHER H
H2		10X212FHPWS	#10 X 2-1/2" FLAT HEAD
H3	Ц.	K29095K	AMESBURY - BALANCE HA
H4	OWARE	WH3807	KEEPER
Н5	2D D	WH276	WEEP HOLE COVER
	HARD		
	1		
S1		EF12C	CRL 3/8" CLOSED CELL B
S2	1	795BL	DOW CORNING-795 SILICO
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S1 S2			

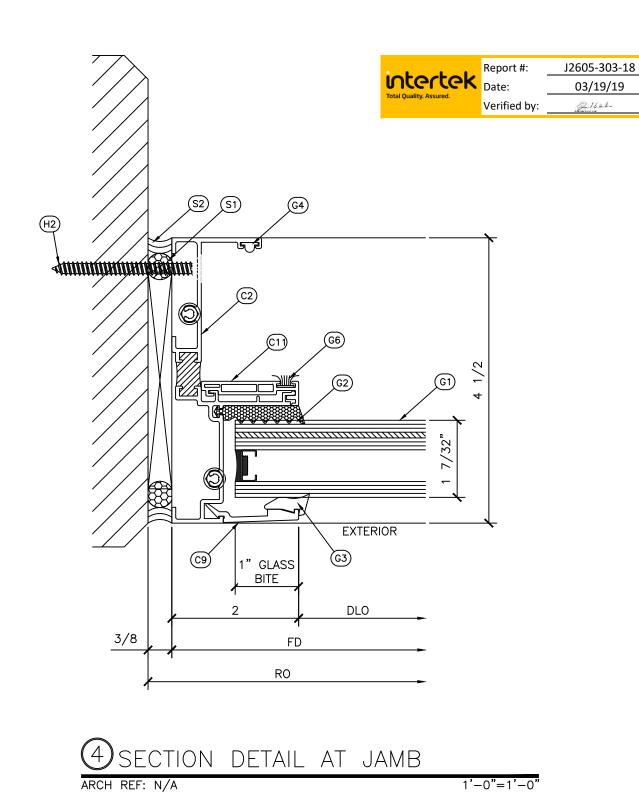
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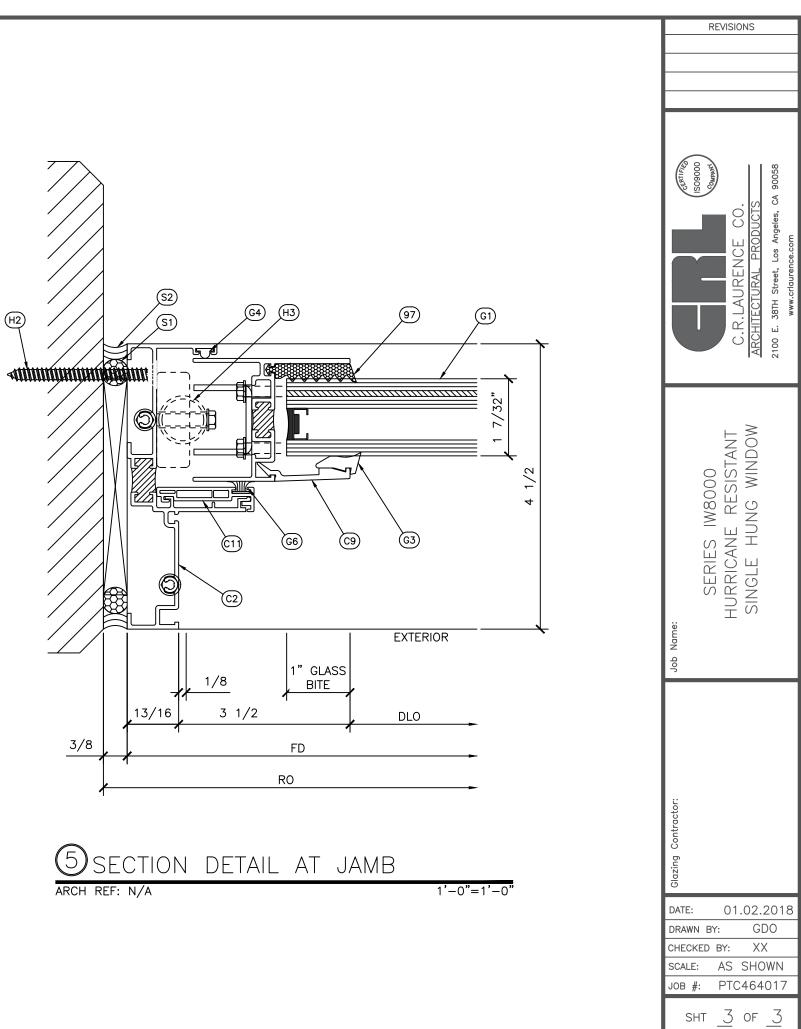
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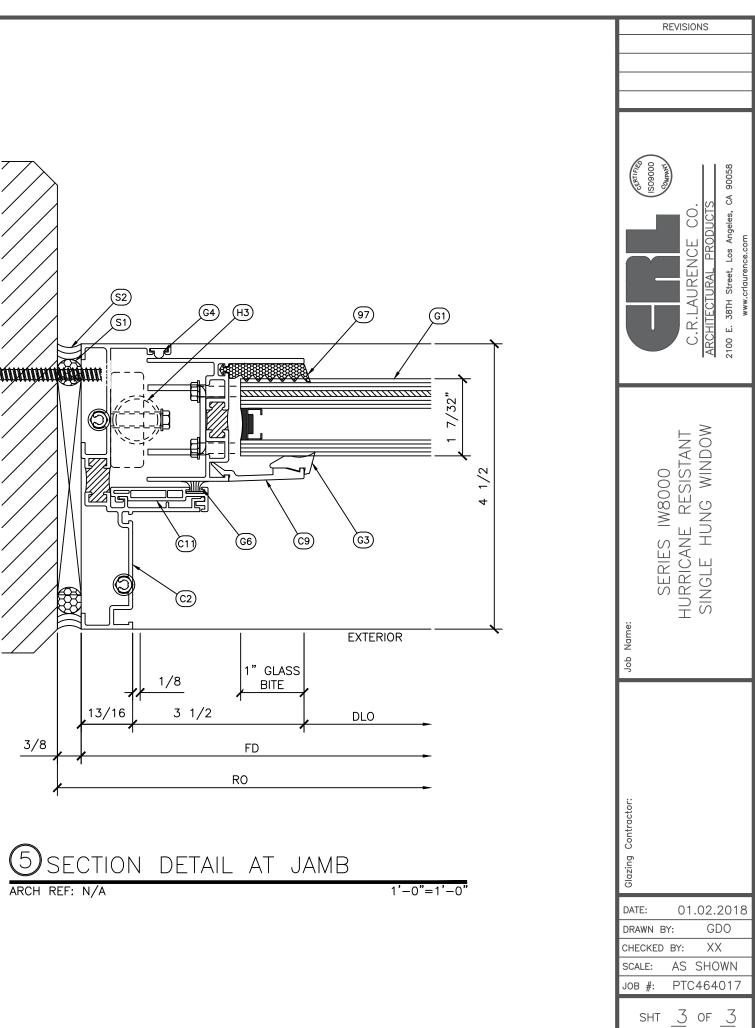


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	Verified by:	Jelle Hel-











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TEST REPORT FOR CR LAURENCE CO., INC

Report No.: J2605.01-303-18 R0 Date: 03/19/19

SECTION 12

REVISION LOG

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