

# CR LAURENCE CO., INC. TEST REPORT

**SCOPE OF WORK**

AIR / WATER / STRUCTURAL TESTING ON 250 T / 250 AT,  
SIDE HINGED DOOR (SINGLE - OUTSWING)

**REPORT NUMBER**

I8030.01-303-47 R0

**TEST DATE**

08/22/18

**ISSUE DATE**

08/23/18

**RECORD RETENTION END DATE**

08/22/22

**PAGES**

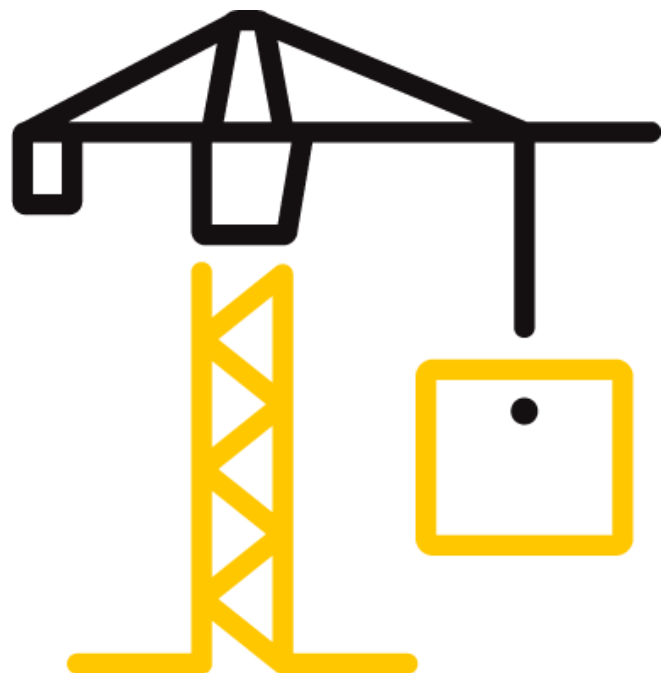
12

**DOCUMENT CONTROL NUMBER**

ATI 00479 (07/24/17)

RT-R-AMER-Test-2805

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## TEST REPORT FOR CR LAURENCE CO., INC.

Report No.: I8030.01-303-47 R0

Date: 08/23/18

### REPORT ISSUED TO

**CR LAURENCE CO., INC.**

2503 East Vernon Avenue

Los Angeles, California 90058

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by CR Laurence Co., Inc., 2503 East Vernon Avenue, Los Angeles, California to perform testing in accordance with ASTM E283, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*, ASTM E330, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*, ASTM E331, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*, on their 250 T / 250 AT, Side Hinged Door (Single – Outswing). Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at CR Laurence Co., Inc. test facility in Los Angeles, California.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

### SECTION 2

#### SUMMARY OF TEST RESULTS

TITLE	RESULTS
Design Pressure	±960 Pa (±20.05 psf)
Air Infiltration	0.4 L/s/m <sup>2</sup> (0.08 cfm/ft <sup>2</sup> )
Water Penetration Resistance Test Pressure	0 Pa (0.00 psf)
Uniform Load Structural Test Pressure	±1440 Pa (±30.08 psf)

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Charles Presley
<b>TITLE:</b>	Technician II
<b>SIGNATURE:</b>	
<b>DATE:</b>	08/24/18

jsh:ab

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### SECTION 3

#### TEST METHOD(S)

The specimens were evaluated in accordance with the following:

**AAMA 205-15**, *In-Plant Testing Guidelines for Manufacturers and Independent Laboratories*

**ASTM E283-04(2012)**, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

**ASTM E330/E330M-14**, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

**ASTM E331-00(2016)**, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen were retained by the customer.

The specimen was installed into a Spruce-Pine-Fir wood buck. The rough opening allowed for a 3/8" shim space at head and jambs and flush install at threshold. The interior and exterior perimeter of the door was sealed with silicone sealant. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Through threshold	#10 x 2" flat head wood screw	3" from each end and 12" on center spacing.
Through head and jambs	#10 x 3-1/4" flat head wood screws	3" from each end and 12" on center spacing.

### SECTION 5

#### EQUIPMENT

Calibration of test equipment was performed by Intertek B&C in accordance with AAMA 205-01 "In-Plant Testing Guidelines for Manufacturers and Independent Laboratories"

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**SECTION 6**
**LIST OF OFFICIAL OBSERVERS**

NAME	COMPANY
Garrett Osterode	CR Laurence Co., Inc.
Charles Presley	Intertek B&C

**SECTION 7**
**TEST SPECIMEN DESCRIPTION**
**Product Type:** Side Hinged Door (Single - Outswing)

**Series/Model:** 250 T / 250 AT

**Product Size(s):**

OVERALL AREA:	WIDTH		HEIGHT	
3.3 m <sup>2</sup> (35.4 ft <sup>2</sup> )	millimeters	inches	millimeters	inches
Overall Size	1321	52	2489	98
Leaf	1219	48	2419	95-3/16

**Frame Construction:**

FRAME MEMBER	MATERIAL	DESCRIPTION
Head and jambs	Aluminum	Thermally broken frame extrusion, Part No. IT442, see attached drawings Section 10.
Sill	Aluminum	Thermally broken threshold extrusion, Part No. TT245, see attached drawings Section 10.
Head and jambs	Aluminum	Pocket filler extrusion, Part No. PV100, press fit into back side of frame extrusion, see attached drawings Section 10.
Head and jambs	Aluminum	Thermally broken door stop extrusion, Part No. DS051, press fit into interior side of frame extrusion, see attached drawings Section 10.
	JOINERY TYPE	DETAIL
All Corners	Flush	Secured at head corners with shear clip (Part No. IP442) fastened with ST240 Frame Assembly screws.

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### Leaf Construction (250 T):

LEAF MEMBER	MATERIAL	DESCRIPTION
Top rail	Aluminum	Thermally broken leaf extrusion, Part No. HT201, see attached drawings Section 10.
Bottom rail	Aluminum	Thermally broken leaf extrusion, Part No. HT101, see attached drawings Section 10.
Hinge stile	Aluminum	Thermally broken leaf extrusion, Part No. HT550, see attached drawings Section 10.
Lock stile	Aluminum	Thermally broken leaf extrusion, Part No. HT552, see attached drawings Section 10.
JOINERY TYPE		DETAIL
All Corners	Flush	Secured through stiles with #8 x 1" FH SMS, four per corner.

### Leaf Construction (250 AT):

LEAF MEMBER	MATERIAL	DESCRIPTION
Top rail	Aluminum	Thermally broken leaf extrusion, foam filled extrusion, Part No. HT201, see attached drawings Section 10.
Bottom rail	Aluminum	Thermally broken leaf extrusion, foam filled extrusion, Part No. HT101, see attached drawings Section 10.
Hinge stile	Aluminum	Thermally broken leaf extrusion, foam filled extrusion, Part No. HT550, see attached drawings Section 10.
Lock stile	Aluminum	Thermally broken leaf extrusion, Part No. HT552, see attached drawings Section 10.
JOINERY TYPE		DETAIL
All Corners	Flush	Secured through stiles with #8 x 1" FH SMS, four per corner.

**Reinforcement:** *No reinforcement was utilized.*

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**Weatherstripping:**

DESCRIPTION	QUANTITY	LOCATION
Bulb seal, Part No. WH349	1 row	Channel inserted into glass stop at head and jambs.
Door sweep assembly, Part No. BW200	1	Attached to interior face of bottom rail full span of member.

**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	Exterior dry glazed with setting blocks at base (Part No. SB245). Sealed at interior with EPDM gasket (Part No. NP252), at exterior with EPDM wedge gasket (Part No. NP225), and glass stop (Part No. HE751) at top and bottom rail.

LOCATION	QUANTITY	DAYLIGHT OPENING		GLASS BITE
		millimeters	inches	
Leaf	1	1062 x 2235	41-13/16 x 88	1/2"

**Drainage:** *No drainage was utilized.*

**Hardware:**

DESCRIPTION	QUANTITY	LOCATION
Hook bolt lock and cylinder, Part Nos. DH129 and DH004	1	Through lock stile 34" from sill.
Stainless steel butt hinge, Part No. BB55NR	3	Located 11-1/2" from sill and 38-1/2" on center.

**Screen Construction:** *No screen was utilized.*

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### SECTION 8

#### TEST RESULTS

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

TITLE OF TEST	RESULTS	NOTE
<b>Air Leakage,</b> Infiltration per ASTM E283 at 75 Pa (1.57 psf)	0.4 L/s/m <sup>2</sup> (0.08 cfm/ft <sup>2</sup> )	
<b>Water Penetration,</b> per ASTM E331 at 0 Pa (0.00 psf)	Pass	1
<b>Uniform Load Deflection,</b> per ASTM E330 Deflections taken at lock stile +960 Pa (+20.05 psf) -960 Pa (-20.05 psf)	0.8 mm (0.03") 3.0 mm (0.12")	2, 3
<b>Uniform Load Structural,</b> per ASTM E330 Permanent set taken at lock stile +1440 Pa (+30.08psf) -1440 Pa (-30.08 psf)	3.6 mm (0.14") 5.3 mm (0.21")	2, 3

**General Note:** All testing was performed in accordance with the referenced standard(s).

*Note 1: Water penetration testing performed in accordance with Limited Water designation.*

*Note 2: Loads were held for 10 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.*

**TEST REPORT FOR CR LAURENCE CO., INC.**

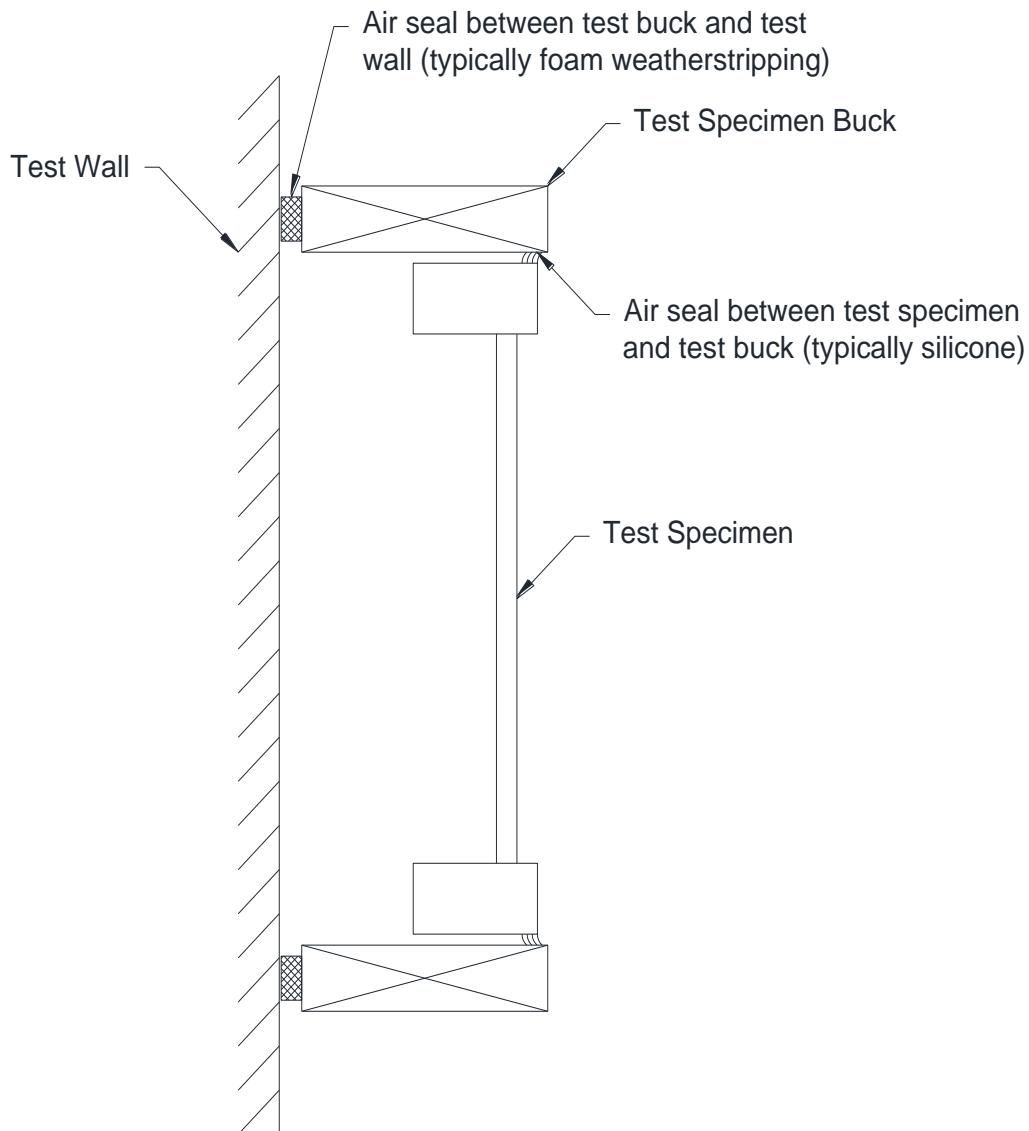
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**SECTION 9**

**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.







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Facsimile: 717-764-4129  
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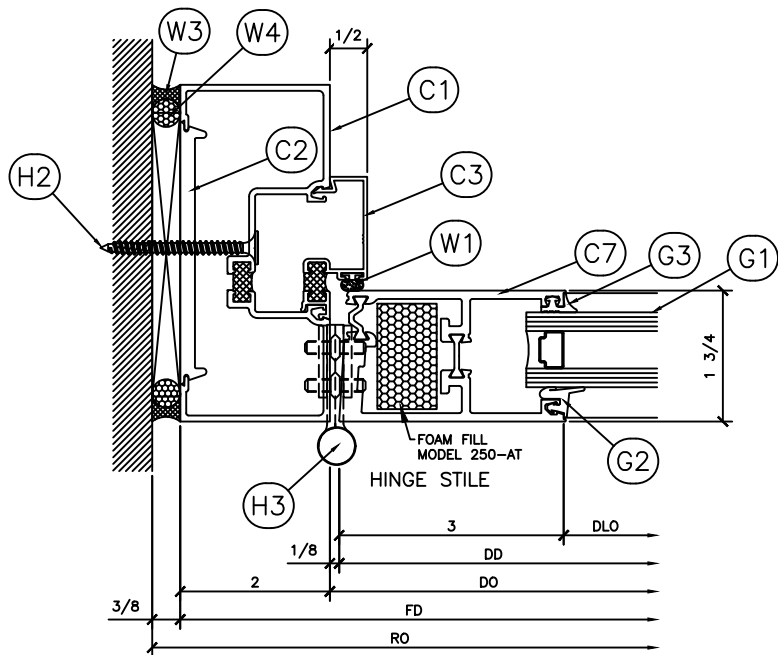
### SECTION 10

#### DRAWINGS

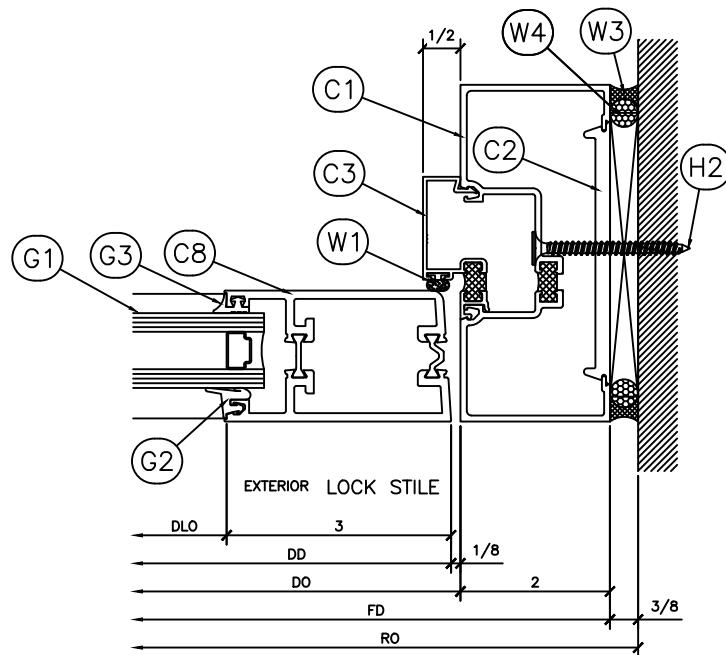
The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein.



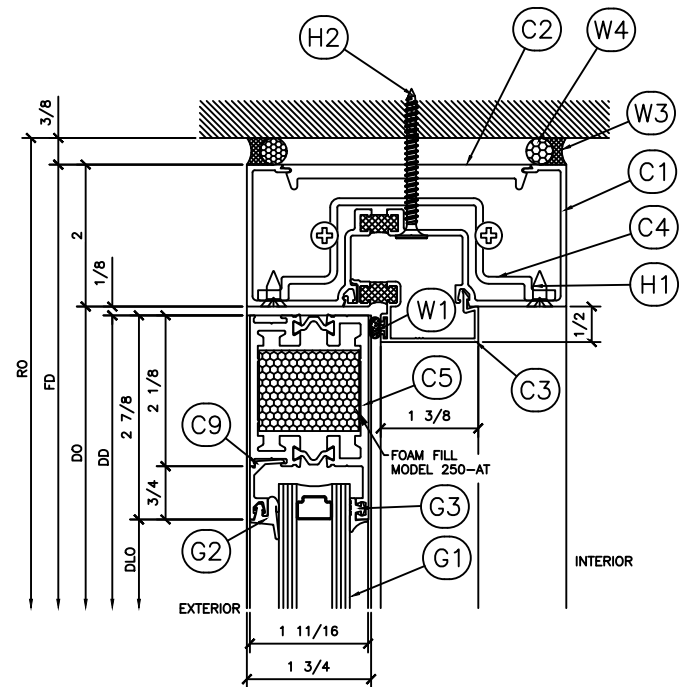
REVISIONS	
<div style="text-align: center;"> <b>CRL</b> C.R.LAURENCE CO. <u>ARCHITECTURAL PRODUCTS</u> 2100 E. 38TH Street, Los Angeles, CA 90058 <a href="http://www.crlaurence.com">www.crlaurence.com</a></div>	<div style="text-align: center;">SERIES 250-T &amp; 250-AT NARROW STILE - 48" X 96" ADVANCED THERMAL DOOR</div>
Glazing Contractor:	Job Name:
DATE: 4.4.2018	
DRAWN BY: GDO	
CHECKED BY:	
SCALE: AS SHOWN	
JOB #: PTC754252	
SHT <u>1</u> OF <u>2</u>	



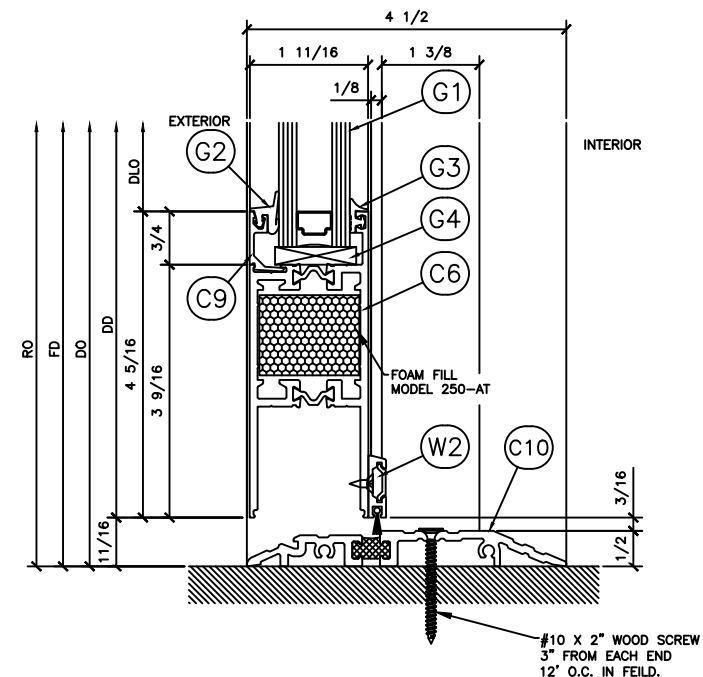
① SECTION DETAIL @ DOOR JAMB  
SCALE: FULL SIZE



② SECTION DETAIL @ DOOR JAMB  
SCALE: FULL SIZE



③ SECTION DETAIL @ 2 7/8" TOP RAIL  
SCALE: FULL SIZE



④ SECTION DETAIL @ 4 5/16" DOOR SILL  
SCALE: FULL SIZE

REVISIONS



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www.crlaurence.com

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NARROW STILE - 48" X 96"  
ADVANCED THERMAL DOOR

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### SECTION 11

#### REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/23/18	N/A	Original Report Issue