

PRL ALUMINUM ARCHITECTURAL TEST REPORT

SCOPE OF WORK

AAMA/WDMA/CSA 101/I.S.2/A440-17 TESTING ON - LC-PG25 - 4 LITE STORE FRONT SYSTEM
10' X 10'

REPORT NUMBER

N0762.01-303-44 R0

TEST DATE(S)

02/18/22 - 04/19/22

ISSUE DATE

04/29/22

RECORD RETENTION END DATE

04/19/24

PAGES

11

DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2805 (10/11/21)

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TEST REPORT FOR PRL ALUMINUM ARCHITECTURAL

Report No.: N0762.01-303-44 R0

Date: 04/29/22

REPORT ISSUED TO

PRL ALUMINUM ARCHITECTURAL PRODUCTS

14760 Don Julian Road
City of Industry, CA 91764

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by PRL Aluminum Architectural Products to perform testing in accordance with AAMA/WDMA/CSA 101/I.S.2/A440-17 on their 4 Lite Store Front System. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at Intertek test facility in Lake Forest, CA where testing was completed.

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For INTERTEK B&C:

COMPLETED BY:	Garrett Osterode	REVIEWED BY:	Tyler Westerling, P.E.
TITLE:	Project Lead	TITLE:	Regional Manager
SIGNATURE:		SIGNATURE:	
DATE:	04/29/22	DATE:	04/29/22

GO:ms

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SECTION 2

SUMMARY OF TEST RESULTS

TITLE	TEST SPECIMEN #1
Design Pressure	±1200 Pa (±25.06 psf)
Air Infiltration	0.175 L/s/m ² (0.59 cfm/ft ²)
Water Penetration Resistance Test Pressure	330 Pa (6.89 psf)
Uniform Load Structural Test Pressure	±2160 Pa (±45.11 psf)

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/E283-19, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Skylights, 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 E547-00(2016), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference*

ASTM F588-17, *Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact*

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MATERIAL SOURCE/INSTALLATION

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

The specimen was installed into a Spruce-Pine-Fir wood 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
Wood Buck	#8x4" Phosphate screws	Jambs- 8", 41", 67-1/4" Head-68-1/4", 91-1/4" Sill-5-1/2", 33-1/2", 56-1/2", 99-1/4", 119"

SECTION 5

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Benjamin Johns	Intertek B&C
Aaron Baker	Intertek B&C

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SECTION 6

TEST SPECIMEN DESCRIPTION

Product Type: Store Front System

Series/Model: (4) Lite panel

Product Size(s):

Test Specimen #1

OVERALL AREA:	WIDTH		HEIGHT	
9.91 m ² (106.77 ft ²)	Millimeters	Inches	Millimeters	Inches
Overall Size	3150	124"	3150	124"

Frame Construction:

FRAME MEMBER	MATERIAL	DESCRIPTION
Comp Can	Aluminum	Extruded
Head/Sill	Aluminum	Extruded
Jambs	Aluminum	Extruded

	JOINERY TYPE	DETAIL
All Corners	Butted	Screwed into raceway

Reinforcement: *No reinforcement was utilized.*

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
5/8" IG	3/8" alum	1/8"	1/8"	EDPM gasket with glass stop

Drainage:

DRAINAGE METHOD	SIZE	QUANTITY	LOCATION
Weeps	1/4" Diam.	2	5-1/2" from each jamb
	1/4" Diam.	2	60" O.C. @ Sill

Hardware: *No hardware was utilized.*

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SECTION 7

TEST RESULTS

The temperature during testing was 14.4°C (58°F). The results are tabulated as follows:

Test Specimen

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Air Leakage, Infiltration per ASTM E283 at 75 Pa (1.57 psf)	<0.1 L/s/m ² (0.09 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	
Air Leakage, Exfiltration per ASTM E283 at 75 Pa (1.57 psf)	<0.1 L/s/m ² (0.02 cfm/ft ²)	1.5 L/s/m ² (0.3 cfm/ft ²) max.	
Water Penetration, per ASTM E547 at 330 Pa (6.89 psf)	Pass	No leakage	1
Uniform Load Deflection, per ASTM E330 Deflections taken at Vert. Mullion +1200Pa (+25.06 psf) -1200 Pa (-25.06 psf)	17.01 mm (.67") 17.78 mm (0.70")	18.03 mm (.71") max. 18.03 mm (.71") max.	2
Uniform Load Structural, per ASTM E330 Permanent set taken at Vert. Mullion +1800 Pa (+37.59 psf) -1800 Pa (-37.59 psf)	0.76 mm (0.03") 0.25 mm (0.01")	6.3 mm (0.248") max. 6.3 mm (0.248") max.	2, 3
Forced Entry Resistance, per ASTM F588	Pass	No entry	

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

Note 1: Without insect screen.

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.

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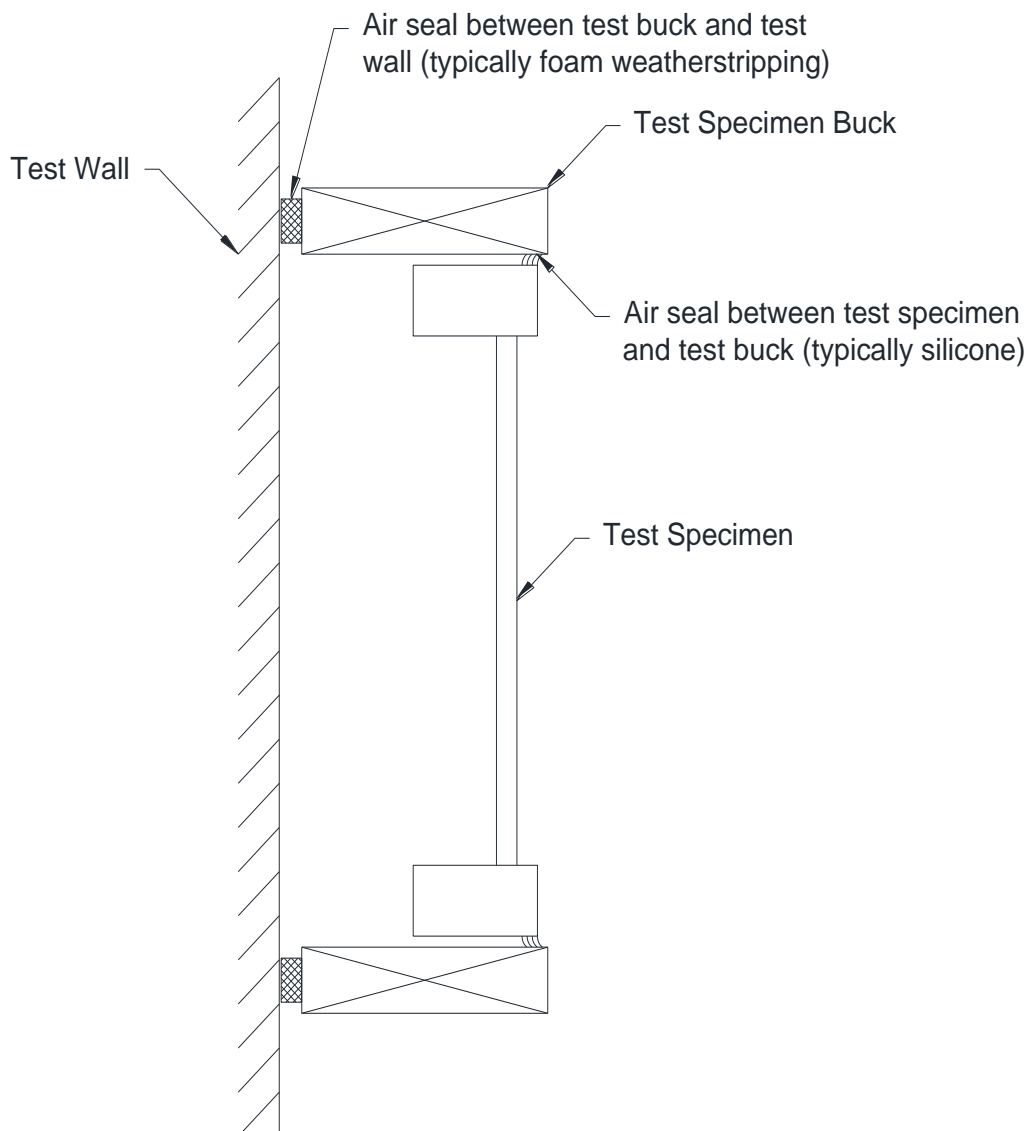
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SECTION 8

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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SECTION 9 PHOTOGRAPHS



Photo No. 1
4-Lite Store Front Unit



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SECTION 10

DRAWINGS

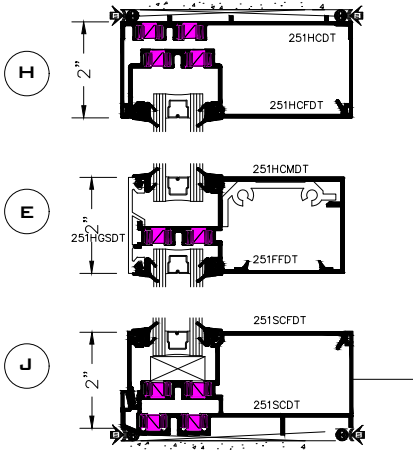
The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.

PL-251TD SERIES
2" x 4-1/2"
1" OFFSET GLAZED

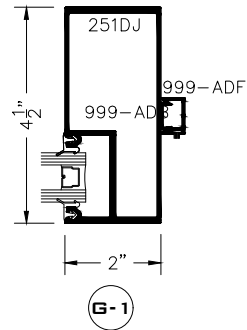
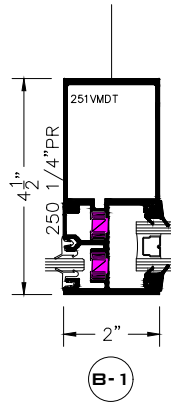
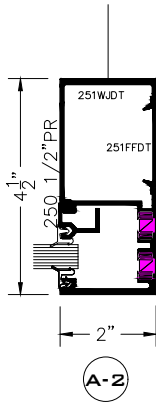
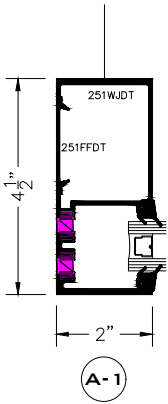
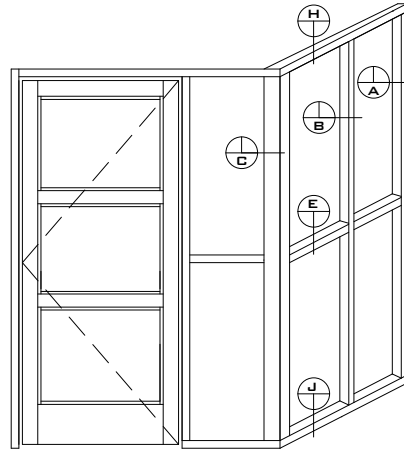
PL-251TD SERIES
 STOREFRONT MATERIAL
 SCALE: 3" = 1' - 0"



QUICK SET



QUICK SET



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SECTION 11

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	04/29/22	N/A	Original Report Issue