

# Fenestration Testing Laboratory, Inc.

10235 8<sup>th</sup> Street, Rancho Cucamonga, CA 91730

Report #: T25-057

## REPORT SUMMARY:

**REPORT #:**

T25-057

**TESTED FOR:**

Fleetwood Windows & Doors

1 Fleetwood Way

Corona, CA 92879

**SERIES & PRODUCT TYPE:**

3070-T 1" THERMAL INTERLOCKER - THERMALLY BROKEN ALUMINUM MULTI-SLIDE DOOR

**CONFIGURATION:**

XXO

**FRAME SIZE:**

3518.15 mm x 3019.55 mm (138.51" x 118.88")

**SPECIFICATION:**

NAFS - North American Fenestration Standard/specification for windows, doors, and skylights  
AAMA/WDMA/CSA 101/I.S.2/A440-22

**PRIMARY DESIGNATOR:**

CLASS LC-PG40 3518.15 x 3019.55 mm (138.51 x 118.88 in) Type: SD (with all HP interlocks)

CLASS R-PG20 3518.15 x 3019.55 mm (138.51 x 118.88 in) Type: SD  
(with all Standard interlocks on inside and HP interlocks on outside)

**TEST COMPLETION DATE:** September 17, 2025

**REPORT DATE:** October 7, 2025

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**1.0 Tested For:** Fleetwood Windows & Doors  
1 Fleetwood Way  
Corona, CA 92879

**2.0 Purpose:**

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) THERMALLY BROKEN ALUMINUM MULTI-SLIDE DOOR described in paragraph 4.0 of this report.

**3.0 Test References:**

**3.1** NAFS - North American Fenestration Standard/specification for windows, doors, and skylights AAMA/WDMA/CSA 101/I.S.2/A440-22

**4.0 Compliance Statement:** The test results in paragraph 6.0 indicate that the test sample described in paragraph 5.0 of this report met the performance requirements of the above specifications for the performance grade shown in 4.1 below.

**4.1** CLASS LC-PG40 3518.15 x 3019.55 mm (138.51 x 118.88 in) Type: SD

**5.0 Sample Submitted:**

**5.1 Product Type:** THERMALLY BROKEN ALUMINUM MULTI-SLIDE DOOR

**5.2 Series:** 3070-T 1" THERMAL INTERLOCKER

**5.3 Configuration:** XXO (references to left panel or right panel are as seen from outside)

<b>5.4 Product Dimensions:</b>	<b>Millimeters</b>	<b>Inches</b>
Total Frame:	3518.15 x 3019.55	138.51 x 118.88
Left Panel:	1212.09 x 3352.80	47.72 x 117.12
Center Panel:	1155.70 x 3352.80	45.50 x 117.12
Fixed Panel:	1151.64 x 3352.00	45.34 x 117.12

**5.5 Glass and Glazing:** Applies to all three panels

<i>IGU Thickness</i>	<i>Spacer Size</i>	<i>Interior Lite</i>	<i>Exterior Lite</i>	<i>Glazing method</i>
1" overall wide	Metal box type	1/4" Tempered	1/4" Tempered	All panels were channel glazed with wrap around gasket.

**5.6 Weepage**

1" x 3/16" weep notch across all tracks at bottom of threshold. The threshold sat in a sheet metal pan. Water weeped through the notches at bottom of threshold and into the pan. A weep was located 8" from each end and 60" on center for a total of three (3).

**5.7 Pressure balancing:** None

**5.8 Weather-stripping:**

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
Q-Ion foam filled bulb	Four (4) strips	Two strips in the left side lock jamb channel (outermost channel) - one strip facing in and one strip facing out. Two strips in the right side lock jamb channel (innermost channel) one strip facing in and one strip facing out.

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## 5.8 Weather-stripping: (Continued)

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
0.270" overall high polypile with center fin	Twelve (12) strips	Threshold – two strips per each panel leg penetrating a threshold channel at two channels per panel bottom rail; for each channel one strip faced in and one strip faced out.
0.190" overall high polypile	Four (4) strips	Each interlock contained one strip facing the corresponding interlock it mated with.
0.220" overall high polypile with center fin	Six (6) strips	Head channels – each channel contained two strips – one strip facing in and one strip facing out.
Flexible PVC air barrierer (item #16 on BOM)	Four (4)	One at top end of each interlock stile.
Air barrier (Item #17 on BOM)	Eight (8)	One at each end of each interlock.

## 5.9 Sealants:

- The pan was set in a bed of sealant.
- The threshold was set in a bed of sealant in the pan. Note that sealant was applied so as to not block weep notches.
- The head-to-jamb frame corners were sealed full profile.
- The frame was sealed full perimeter to the rough opening on the interior and exterior.

## 5.10 Hardware:

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
Tandem adjustable steel roller	Six (6)	Bottom rail of each panel – one tandem roller at each end of each bottom rail.
Metal mortise lock and recessed pull	Two (2)	One lock on each jamb stile – left panel left stile and right panel right stile. Each lock hook was located 46" from the bottom of the door frame to lock handle actuator.

## 5.11 Construction:

<i>Location</i>	<i>Joinery Type</i>	<i>Number of Fasteners</i>	<i>Fastener Size</i>
Jambs to head at each end	Mechanically joined with screws	Six (6) at each jamb to head corner.	#10 x 1.5" PPH
Jambs to threshold at each end	Mechanically joined with screws	Three (3) at each jamb to threshold corner.	#8 x 2" PFH
Sash corners – applied through stiles and into rails	Mechanically joined with screws	Interlock to rails #8 x 2" PFH Lead stile to rails #8 x 2.5" PFH	
The sill, head, and jambs were each formed by joining three extrusions with I struts that mated to each other. At jambs, the center channel was joined to the adjacent channels with a #6 x 0.5" PPH screw applied through mating extrusion legs on the concealed side of the extrusions.			
The frame head, sill, jambs, each panel bottom rail extrusions and each interlock extrusion were thermally broken with thermal struts. The panel top rails were thermally broken by pour and dibridged method.			
Aluminum snap-in jamb fillers were applied to the two non-lock channels in each jamb.			
The sill contained three stainless steel tracks that slid into the sill channels.			

## 5.12 Reinforcement: None

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## 5.13 Installation:

The threshold was set in sealant to the pan, and the pan was set in sealant to the rough opening.

The head and jambs were anchored to the rough opening with #8 x 2" screws as follows: Two screws per channel x 3 channels. This results in a row of six screws 8" from each end and 36" on center in the field.

**6.0 - Test procedures and results:** All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 3.0 of this report. The number preceding each test listed below refers to the corresponding section in the NAFS.

### 8.3.1 - Operation Force (ASTM E2068-00(2022))

Test Description	Results	Allowed	Comments
Maximum force to initiate and motion	381.8 N (15.03 lbf)	155 N (35 lbf)	
Latching device force to operate	26.7 N (6.0 lbf)	100 N (22.48 lbf)	

### 8.3.2 - Air Infiltration (ASTM E283-19)

Test Description	Results	Allowed	Comments
75 Pa differential pressure	1.1 L/s*m <sup>2</sup>	1.5 L/s*m <sup>2</sup>	Pass
1.57 psf differential pressure	0.22 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup>	Pass

The tested specimen exceeds the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

### 8.3.2 - Air Exfiltration (ASTM E283-19)

Test Description	Results	Allowed	Comments
75 Pa differential pressure	1.2 L/s*m <sup>2</sup>	1.5 L/s*m <sup>2</sup>	Pass
1.57 psf differential pressure	0.23 cfm/ft <sup>2</sup>	0.30 cfm/ft <sup>2</sup>	Pass

The tested specimen exceeds the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.

### 8.3.3 - Water Penetration (ASTM E547-00(2016))

Pan inside leg height was 2.05" for DP40

Test Description	Results	Allowed	Comments
DP40 - 290 Pa (6.06 psf)	No water penetration	No water penetration	1

### 8.3.4.2 - Uniform Load Deflection at Design Pressure (ASTM E330-14 (2021))

With all Standard interlocks inside and HP interlocks outside

#### 8.3.4.2 - Uniform Load Deflection at Design Pressure (DP) (ASTM E330/330M-14(2021))

Test Description	Results	Allowed	Comments
DP20 - 960 Pa (20.05 psf)Pos	16.26 mm (0.64")	Report only	2
DP20 - 960 Pa (20.05 psf)Neg	19.30 mm (0.76")	Report only	2

#### 8.3.4.3 - Uniform Load Structural Overload at 1.5 x DP (ASTM E330/330M-14(2021))

Test Description	Results	Allowed	Comments
OL for DP20 - 1440 Pa (30.08 psf)Pos	3.05 mm (0.12")	11.43 mm (0.45")	2
OL for DP20 - 1440 Pa (30.08 psf)Neg	4.06 mm (0.16")	11.43 mm (0.45")	2

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With all HP interlocks inside and outside

## 8.3.4.2 - Uniform Load Deflection at Design Pressure (DP) (ASTM E330/330M-14(2021))

Test Description	Results	Allowed	Comments
DP40 - 1920 Pa (40.10 psf)Pos	21.08 mm (0.83")	Report only	2
DP40 - 1920 Pa (40.10 psf)Neg	19.81 mm (0.78")	Report only	2

## 8.3.4.3 - Uniform Load Structural Overload at 1.5 x DP (ASTM E330/330M-14(2021))

Test Description	Results	Allowed	Comments
OL for DP40 - 2880 Pa (60.15 psf)Pos	1.52 mm (0.06")	11.43 mm (0.45")	2
OL for DP40 - 2880 Pa (60.15 psf)Neg	1.78 mm (0.07")	11.43 mm (0.45")	2

## 8.3.5 - Forced Entry Resistance (ASTM F842-17(2023) & CAWM 300-96)

Refer to FTL report T25-034 for FER test conducted on same series product with same locks and method of locking to jambs but that had larger frame height and width and same number of panels.

## 8.3.6.2 - Deglazing Test

Test Description	Results	Allowed	Comments
Active Sash Pull Stile - 320 N (71.94 lbf)	3%	Less than 90% of glazing bite	
Active Sash Rail - 230 N (51.71 lbf)	2%	Less than 90% of glazing bite	

## Additional Water Testing

### 8.3.3 - Water Penetration (ASTM E547-00(2016))

The pan inside leg height varied according to the differential pressure applied.

Test Description	Results	Allowed	Pan Leg Hight
DP20 - 150 Pa (3.13 psf)	No water penetration	No water penetration	1.5"
DP30 - 220 Pa (4.59 psf)	No water penetration	No water penetration	1.75"
DP35 - 260 Pa (5.43 psf)	No water penetration	No water penetration	1.90"

Comment #1 - All water penetration tests were conducted without an insect screen.

Comment #2 - Deflection measurement taken from interlocks.

Testing was witnessed by: Jim Cruz with FTL and Corey Jones with Fleetwood.

For a complete description of the tested sample, refer to the attached three (3) pages consisting of a bill of materials, cross section drawings, and individual die drawings. This report is complete only when all the above referenced bill of materials and drawings are attached.

The bill of materials, cross section drawings, and die drawings of frame and sash members are on file and have been compared to the sample submitted. Test sample sections, bill of materials, drawings and a copy of this report will be retained at the test laboratory for four years.

This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory, Inc (FTL).

The preceding test results relate only to the tested specimen and were obtained by using the applicable test methods listed in section 3.0 and 6.0 above. This report does not constitute certification of this product or an endorsement by this laboratory. It is the property of the client named in section 1.0 above. Certification can only be granted by an approved administrator and/or validator.

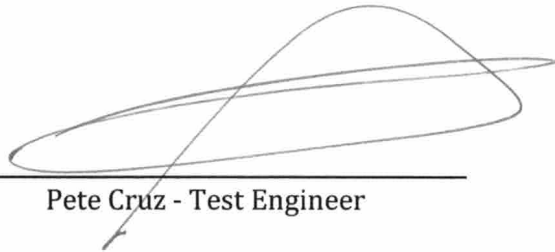
**Test Completion Date:** September 17, 2025

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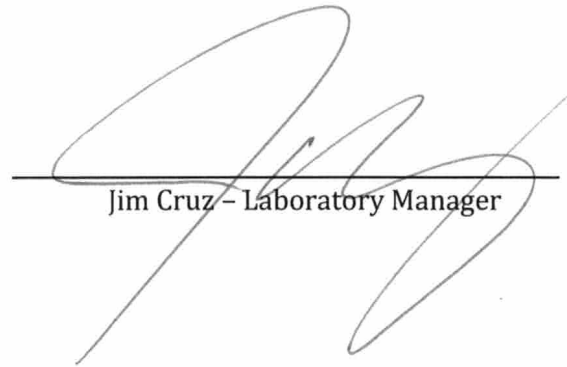
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Pete Cruz - Test Engineer



Jim Cruz - Laboratory Manager