TEST REPORT

Report No.: E8390.01-301-44

Rendered to:

FLEETWOOD WINDOWS AND DOORS
Corona, California

PRODUCT TYPE: Sliding Door
SERIES/MODEL: 3070-T Corner Door/Pocket Door

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

AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

Test Start Date:	07/16/15
Test End Date:	11/11/15
Report Date:	02/02/16
Revision 4 Date:	07/25/16
Test Record Retention End Date:	11/11/19

Summary of Results

	Summary of Results	
Title	**Test Specimen #1**	**Test Specimen #2**
	PXXXVXXXVXO 3070 T	PXXXVXXXVXO 3070 T
AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11	LC PG50 – SD 12,190 mm x 3048mm (480" x 120") non-pocket dimension	LC PG40 – SD 12,190 mm x 3048mm (480" x 120") non-pocket dimension
Design Pressure	+2400 Pa (+50.13 psf)	+2400 Pa (+50.13 psf)
Negative Design Pressure	-2400 Pa (-50.13 psf)	-2400 Pa (-50.13 psf)
Air Infiltration	0.8 L/s/m^2 (0.15 cfm/ft^2)	0.8 L/s/m^2 (0.15 cfm/ft^2)
Canadian Air Infiltration/Exfiltration Level	A2	A2
Water Penetration Resistance Test Pressure	440 Pa (9.19 psf) (2-3/4" tall sill pan)	290 Pa (6.06psf) (2" tall sill pan)

	Summary of Results	
Title	**Test Specimen #3**	**Test Specimen #4**
	PXXXVXXXVXO 3070 T	PXXXVXXXVXO 3070 T
AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11	LC PG30 – SD 12,190 mm x 3048mm (480" x 120") non-pocket dimension	RPG20 – SD 12,190 mm x 3048mm (480" x 120") non-pocket dimension
Design Pressure	+2400 Pa (+50.13 psf)	+2400 Pa (+50.13 psf)
Negative Design Pressure	-2400 Pa (-50.13 psf)	-2400 Pa (-50.13 psf)
Air Infiltration	0.8 L/s/m^2 (0.15 cfm/ft^2)	0.8 L/s/m^2 (0.15 cfm/ft^2)
Canadian Air Infiltration/Exfiltration Level	A2	A2
Water Penetration Resistance Test Pressure	220 Pa (4.59psf) (1-3/4" tall sill pan)	150 Pa (3.13psf) (1-1/2" tall sill pan)

	Summary of Results	
Title	**Test Specimen #5**	**Test Specimen #6**
	PXXXVXXXVXO 3070 T	PXXXVXXXVXO 3070 T
AAMA/WDMA/CSA 101/I.S.2/A440-08 and -11	Does not meet minimum water required by AAMA. 12,190 mm x 3048mm (480" x 120") non-pocket dimension	Does not meet minimum water required by AAMA. 12,190 mm x 3048mm (480" x 120") non-pocket dimension
Design Pressure	+2400 Pa (+50.13 psf)	+2400 Pa (+50.13 psf)
Negative Design Pressure	-2400 Pa (-50.13 psf)	-2400 Pa (-50.13 psf)
Air Infiltration	0.8 L/s/m^2 (0.15 cfm/ft^2)	0.8 L/s/m^2 (0.15 cfm/ft^2)
Canadian Air Infiltration/Exfiltration Level	A2	A2
Water Penetration Resistance Test Pressure	50 Pa (1.0 psf) (1" tall sill pan)	0 Pa (0 psf) (3/4" tall sill pan)

Test Completion Date: 11/11/15

Reference must be made to Report No. E8390.01-301-44, dated 07/25/16 for complete test specimen description and detailed test results.

1.0 Client Identification:

1.1 Report Issued To: Fleetwood Windows & Doors
1 Fleetwood Way
Corona, California 92879

1.2 Contact Person: Joe Zammit

2.0 Laboratory Identification:

2.1 Test Laboratory: Architectural Testing, Inc.,
an Intertek company ("Intertek-ATI")
2524 East Jensen Avenue
Fresno, California 93706

2.2 Phone Number: (559) 233-8705

3.0 Project Summary:

3.1 Product Type: Sliding Door

3.2 Series/Model: 3070-T Corner Door/Pocket Door

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The specimens tested successfully met the performance requirements for the following ratings:

Test Specimen(s)	Title	Summary of Results
PXXXVXXXVXO 3070 T		
Specimen #1	101/I.S.2/A440-08 and -11	LC PG50 – SD 12,190 mm x 3048 mm (480" x 120") 440 Pa (9.19 psf) (2-3/4" tall sill pan)
Specimen #2	101/I.S.2/A440-08 and -11	LC PG40 – SD 12,190 mm x 3048 mm (480" x 120") Water Test Pressure 290 Pa (6.06psf) (2" tall sill pan)
Specimen #3	101/I.S.2/A440-08 and -11	LC PG30 – SD 12,190 mm x 3048 mm (480" x 120") Water Test Pressure 220 Pa (4.59psf) (1-3/4" tall sill pan)
Specimen #4	101/I.S.2/A440-08 and -11	RPG20 – SD 12,190 mm x 3048 mm (480" x 120") Water Test Pressure 150 Pa (3.13psf) (1-1/2" tall sill pan)

3.0 Project Summary: (Continued)

3.4 Compliance Statement: (Continued)

Test Specimen(s)	Title	Summary of Results
PXXXVXXXVXO 3070 T		
Specimen #5	101/I.S.2/A440-08 and -11	Does not meet minimum water required by AAMA. 12,190 mm x 3048 mm (480" x 120") Water Test Pressure 50 Pa (1.0 psf) (1" tall sill pan)
Specimen #6	101/I.S.2/A440-08 and -11	Does not meet minimum water required by AAMA. 12,190 mm x 3048 mm (480" x 120") Water Test Pressure 0 Pa (0 psf) (3/4" tall sill pan)

3.5 Test Dates: 07/15/15 - 11/11/15

3.6 Test Record Retention End Date: All test records for this report will be retained until November 11, 2019.

3.7 Test Location: Architectural Testing, Inc. test facility in Fresno, California.

3.8 Test Specimen Source: The test specimen(s) was provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of four years from the test completion date.

3.9 Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix B and C. Any deviations are documented herein or on the drawings.

3.10 List of Official Observers:

Name	Company
Nathan Baker	Fleetwood
Dennis Janzen	Intertek-ATI
Tyler Westerling	Intertek-ATI

4.0 Test Specifications:

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

AAMA/WDMA/CSA 101/I.S.2/A440-08, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

CSA A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, *NAFS - North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area: 22.8 m^2 (243 ft^2)	**Width**		**Height**	
	millimeters	**inches**	**millimeters**	**inches**
MAX Pocket Wall Size	4,572	180	3,048	120
MAX 90 Degree Corner Wall Size	4,572	180	3,048	120
MAX 135 Degree Corner Wall Size	3,048	120	3,048	120
MAX Panel Size	1,588	62-1/16	2,997	118

The following descriptions apply to all specimens.

5.0 Test Specimen Description: (Continued)

5.2 Frame Construction:

Frame Member	Material	Description
Sill	Thermally Broken Aluminum	Three piece sill
Sill pan	Aluminum	With a 3" tall interior leg
Sill filler	Aluminum	Snapped in place where panels do not slide
Jamb	Thermally Broken Aluminum	With snapped in jamb filler where panel is not engaged
Head	Thermally Broken Aluminum	With snapped in head filler where panel is not engaged

	Joinery Type	Detail
All corners	Butt	Sealed with silicone and attached with six #10 x 1.5" Phillips pan head sheet metal screws in Head and three #8 x 2" Flat Head Phillips in sill.

5.3 Panel Construction:

Panel Member	Material	Description
All	Thermally Broken Aluminum	See drawings for details.

	Joinery Type	Detail
All corners	Butt	Sealed with silicone. Top corners fastened with one #10 x 2" Phillips head screw each. Bottom corners fastened with one #10 x 2". Two 1/4-20 x 1" Phillips head screws were fastened into each roller.

5.0 Test Specimen Description: (Continued)

5.4 Weatherstripping:

Description	Quantity	Location
0.230 polypile with center fin	4	In sill contracting interior and exterior of each panel leg
0.230 polypile with center fin	2	In head contracting interior and exterior of panel face
0.290 Polypile with center fin	1	In each pocket interlock extrusion
0.230 polypile with center fin	2	In interior and exterior meeting stile locking extrusion.
0.290 polypile with center fin	1	In each interlock extrusion
Q-lon foam seal	1	In interior and exterior of jamb extrusion
Panel corner air barrier	1	At each exposed panel bottom and top corner.

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	Glazing	Glazing Method
IG	1/4" temp/air space/ lami (5/32" HS .090SGP 5/32: HS)	Channel glazed into frame. Dry glazed at all top and bottom rails and interlocks. Wet glazed at locking vertical stiles only

Location	Quantity	Daylight Opening		Glass Bite
		millimeters	inches	
All Lights	8	1435 x 2845	56-1/2 x 112	5/8

5.6 Drainage:

Drainage Method	Size	Quantity	Location
Weep Notch	1" wide by 3/16" tall	6	6" from the end of each sill member

5.0 Test Specimen Description: (Continued)

5.7 Hardware:

Description	Quantity	Location
Rollers, Tandem	2 tandem rollers each panel	Bottom panel rail
Archetype narrow Lock	2	Locking meeting panel
Archetype II lock	1	Locking meeting panel

5.8 Reinforcement:

Drawing Number	Location	Material
37	All small interlock hallows	Aluminum
38	All small interlock hallows	Aluminum

5.9 Screen Construction: No screen was utilized.

6.0 Installation:

The specimen was installed into a Pine wood buck. The rough opening allowed for a 1/4" shim space. The exterior perimeter of the window was sealed with sealant. See drawing on sheet 8 of 12 for installation details.

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

Test Specimen #1 PXXXVXXXVXO 3070 T: LC PG50 – SD

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 440 Pa (9.19 psf) (2-3/4" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #1 PXXXVXXXVXO 3070 T: LC PG50 – SD (Continued)

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max..	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #2 PXXXVXXXVXO 3070 T: LC PG40 – SD

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 290 Pa (6.06psf) (2" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #2 PXXXVXXXVXO 3070 T: LC PG40 – SD (Continued)

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #3 PXXXVXXXVXO 3070 T: LC PG30 – SD

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 220 Pa (4.59psf) (1-3/4" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #3 PXXXVXXXVXO 3070 T: LC PG30 – SD (Continued)

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #4 PXXXVXXXVXO 3070 T: R PG20 – SD

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 150 Pa (3.13psf) (1-1/2" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #43 PXXXVXXXVXO 3070 T: R PG20 – SD (Continued)

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #5 PXXXVXXXVXO 3070 T: Does not meet minimum water required by AAMA.

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 50 Pa (1.0 psf) (1" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #5 PXXXVXXXVXO 3070 T: Does not meet minimum water required by AAMA.

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

Test Specimen #6 PXXXVXXXVXO 3070 T: Does not meet minimum water required by AAMA.

Title of Test	Results	Allowed	Note
Operating Force, per ASTM E 2068	Initiate motion: 68N (15 lbf) Maintain motion: 36 N (8 lbf)	135 N (30 lbf) max. 90 N (20 lbf) max.	
Air Leakage, Infiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Air Leakage, Exfiltration per ASTM E 283 at 75 Pa (1.57 psf)	0.8 L/s/m² (0.15 cfm/ft²)	1.5 L/s/m² (0.3 cfm/ft²) max.	1
Canadian Air Infiltration/Exfiltration Level	A2	N/A	
Water Penetration, per ASTM E 547 and ASTM E 331 at 0 Pa (0 psf) (3/4" tall sill pan)	Pass	No leakage	
Uniform Load Deflection, per ASTM E 330 Deflections taken at Interlock +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	46 mm (1.80") 35 mm (1.36")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 90 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	10 mm (0.38") 4 mm (0.16")	Report Only	2,3
Uniform Load Deflection, per ASTM E 330 Deflections taken at 135 degree corner +2400 Pa (+50.13 psf) -2400 Pa (-50.13 psf)	13 mm (0.52") 9 mm (0.36")	Report Only	2,3

7.0 Test Results: (Continued)

Test Specimen #6 PXXXVXXXVXO 3070 T: Does not meet minimum water required by AAMA.

Title of Test	Results	Allowed	Note
Uniform Load Structural, per ASTM E 330 Permanent sets taken at Interlock			
+3600 Pa (+75.19 psf)	5.0 mm (0.02")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	1.0 mm (0.04")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 90 degree corner			
+3600 Pa (+75.19 psf)	0.8 mm (0.03")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Uniform Load Structural, per ASTM E 330 Permanent sets taken at 135 degree corner			
+3600 Pa (+75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	
-3600 Pa (-75.19 psf)	0.3 mm (0.01")	17 mm (0.69") max.	2,3
Forced Entry Resistance, per ASTM F 842	Pass	No entry	
Deglazing, per ASTM E 987 Operating direction, 320 N (70 lbf)	Pass	Meets as stated	
Remaining direction, 230 N (50 lbf)	Pass	Meets as stated	

7.0 Test Results: (Continued)

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

Note 3: The deflections reported are not limited by AAMA/WDMA/CSA 101/I.S.2/A440 for this product designation. The deflection data is recorded in this report for special code compliance and information only.

Architectural Testing 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 Architectural Testing, Inc. 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(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

Digitally Signed by: Dennis Janzen

Dennis Janzen
Technician

Digitally Signed by: Tyler Westerling

Tyler Westerling, P.E.
Senior Project Engineer

TW:ss

Attachments (pages): This report is complete only when all attachments listed are included.
Appendix A: Drawings (12)

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Fresno, CA 93706

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Revision Log

Rev. #	Date	Page(s)	Revision(s)
0	02/02/16	N/A	Original report issue.
1	02/09/16	Appendix A	Revised drawings.
2	04/01/16	4	Corrected panel corner detail.
2	04/01/16	3	Corrected installation details.
2	04/01/16	Appendix A	Updated drawing package.
3	07/13/16	Appendix A	Updated drawing package.
4	07/25/16	5	Revised glazing description.

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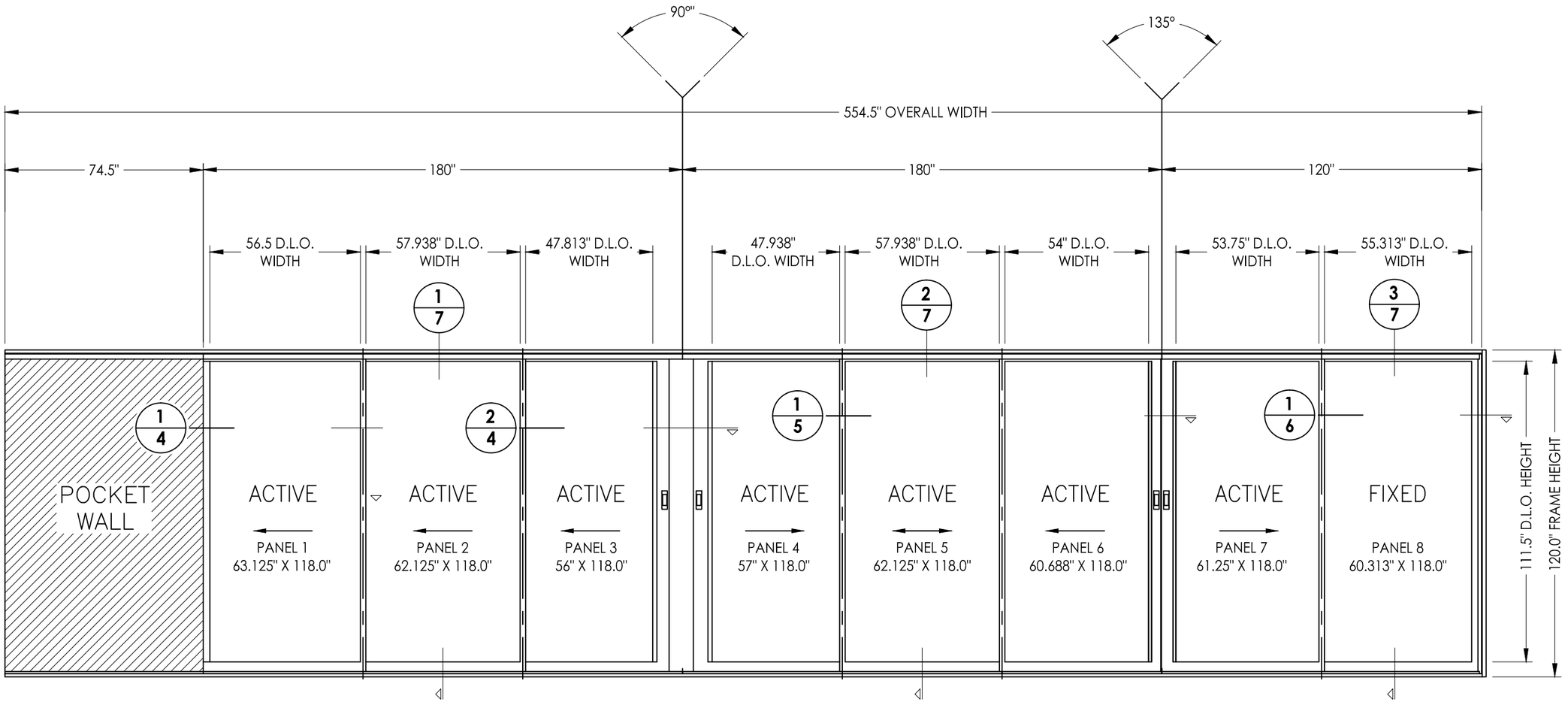
Appendix A

Drawings



TEST ELEVATION (SILL PAN NOT SHOWN)

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Report #: E8390-301-18
Date: 07/13/16
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TABLE OF CONTENTS

REVISIONS	DATE	DRAWN BY	COMMENTS
REV-1	6/29/16	BL	UPDATED GLASS

DRAWN BY: BL
DATE: 6/22/15
JOB NUMBER: 385199-V2

MATERIAL: SERIES 3070-T
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: FLEETWOOD TAS & AAMA TEST

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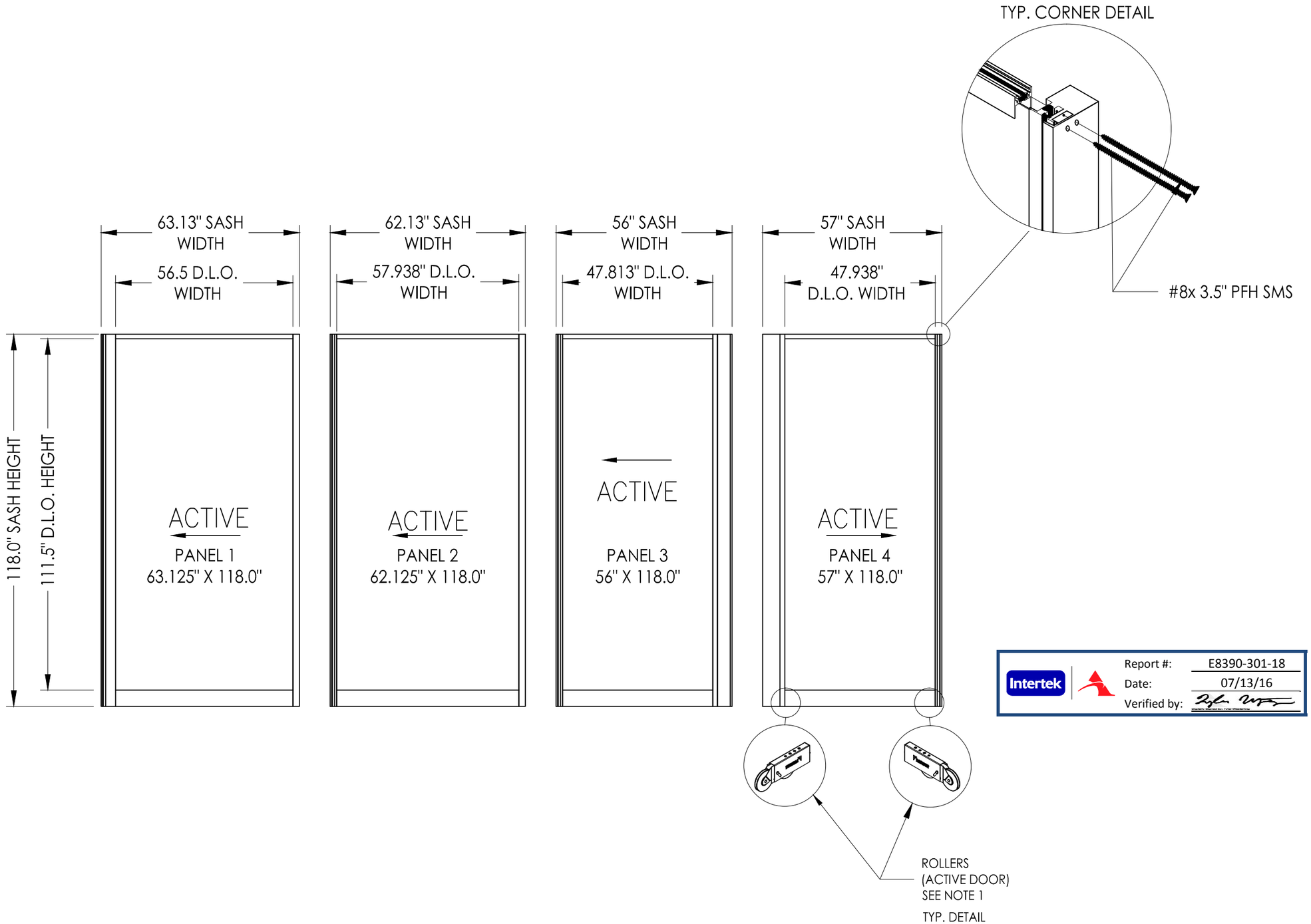
SCALE
DO NOT SCALE

DRAWING NO.
1

SHEET
1 OF 12



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Report #: E8390-301-18
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Note:
1. Roller attached to bottom rail utilizing (2) 1/4-20 x 1/2" PFH Screw and attached to Stile utilizing (2) 1/4 -20 x 1" PPH Screw.

REVISIONS	DATE	DRAWN BY	COMMENTS
REV-1	6/28/16	BL	UPDATED GLASS

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DATE: 6/22/15
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MATERIAL: SERIES 3070-T
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: FLEETWOOD TAS & AAMA TEST

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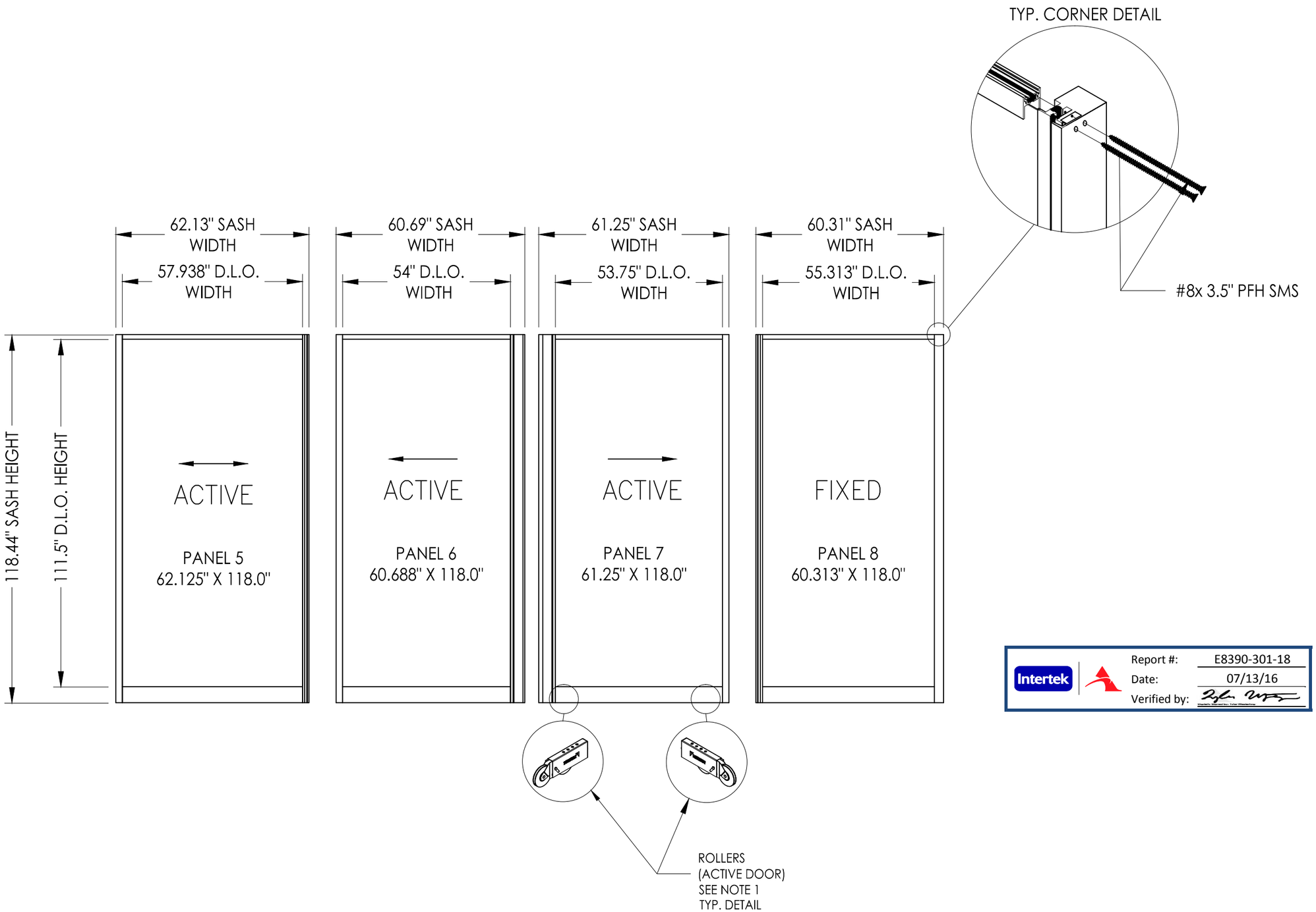
SCALE
DO NOT SCALE

DRAWING NO. 2

SHEET 2 OF 12



Intertek

Report #: E8390-301-18
Date: 07/13/16
Verified by:

Note:
1. Roller attached to bottom rail utilizing (2) 1/4-20 x 1/2" PFH Screw and attached to Stile utilizing (2) 1/4 -20 x 1" PPH Screw.

REVISIONS	DATE	DRAWN BY	COMMENTS
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JOB NAME: FLEETWOOD TAS & AAMA TEST

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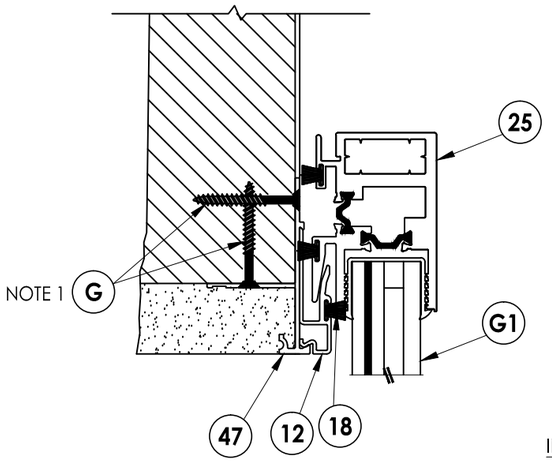
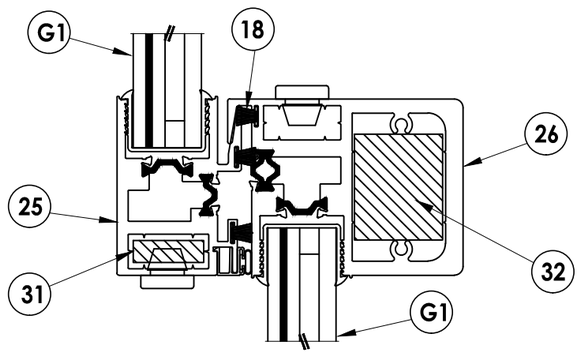
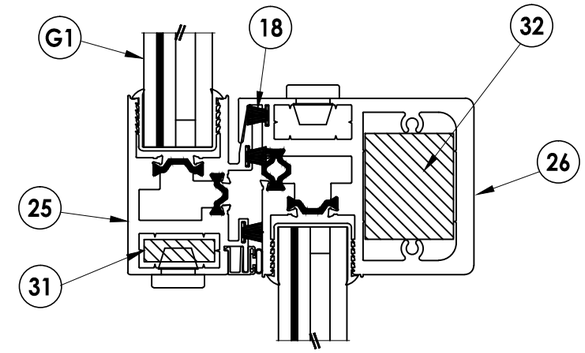
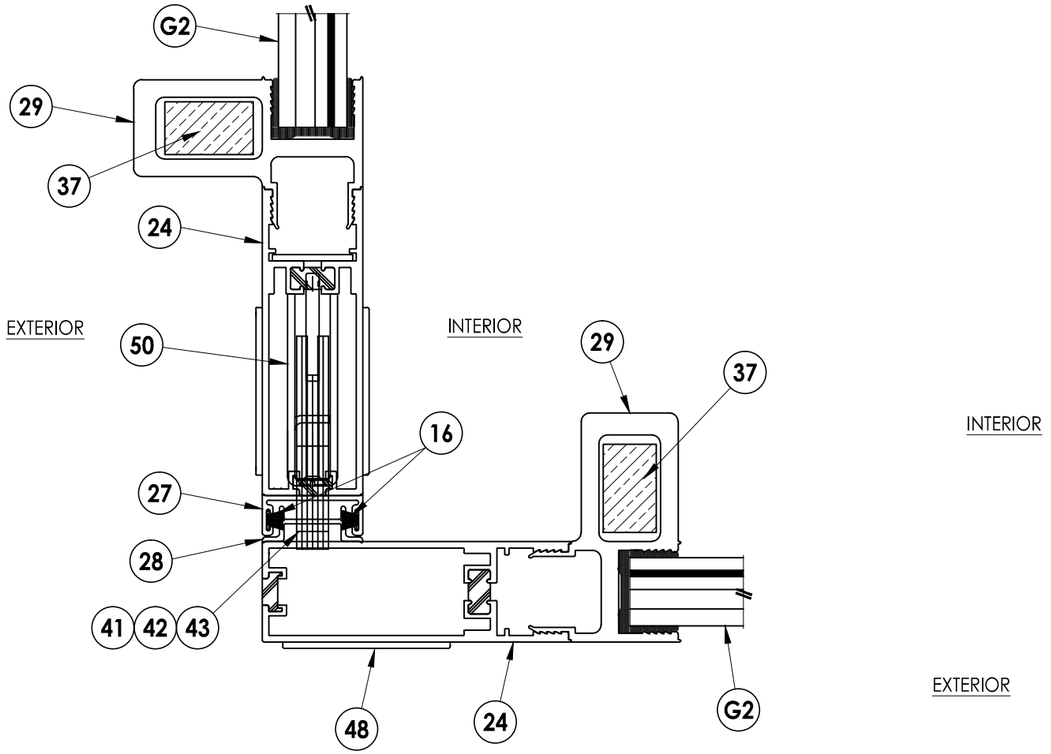
SCALE : DO NOT SCALE
DRAWING NO. : 3
SHEET : 3 OF 12





1/4 HORIZONTAL CROSS SECTION





2/4 HORIZONTAL CROSS SECTION

NOTE:
1. 8" from each end then 12" on center

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JOB NAME: FLEETWOOD TAS & AAMA TEST

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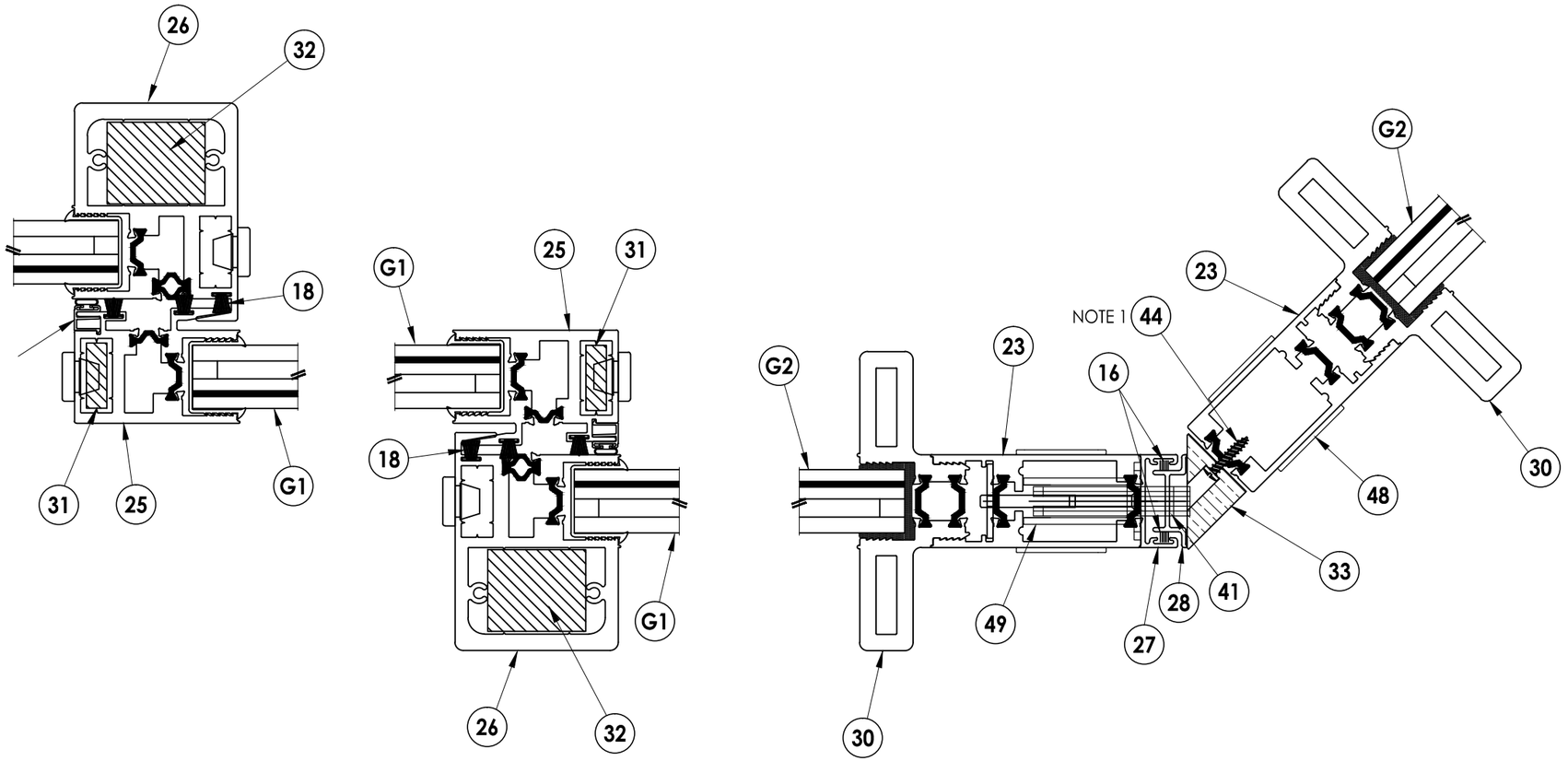
SCALE: DO NOT SCALE
DRAWING NO. 4
SHEET 4 OF 12



1/5 *HORIZONTAL CROSS SECTION*

NOTE:
1. 6" from each end then 18" on center

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REVISIONS	DATE	DRAWN BY	COMMENTS
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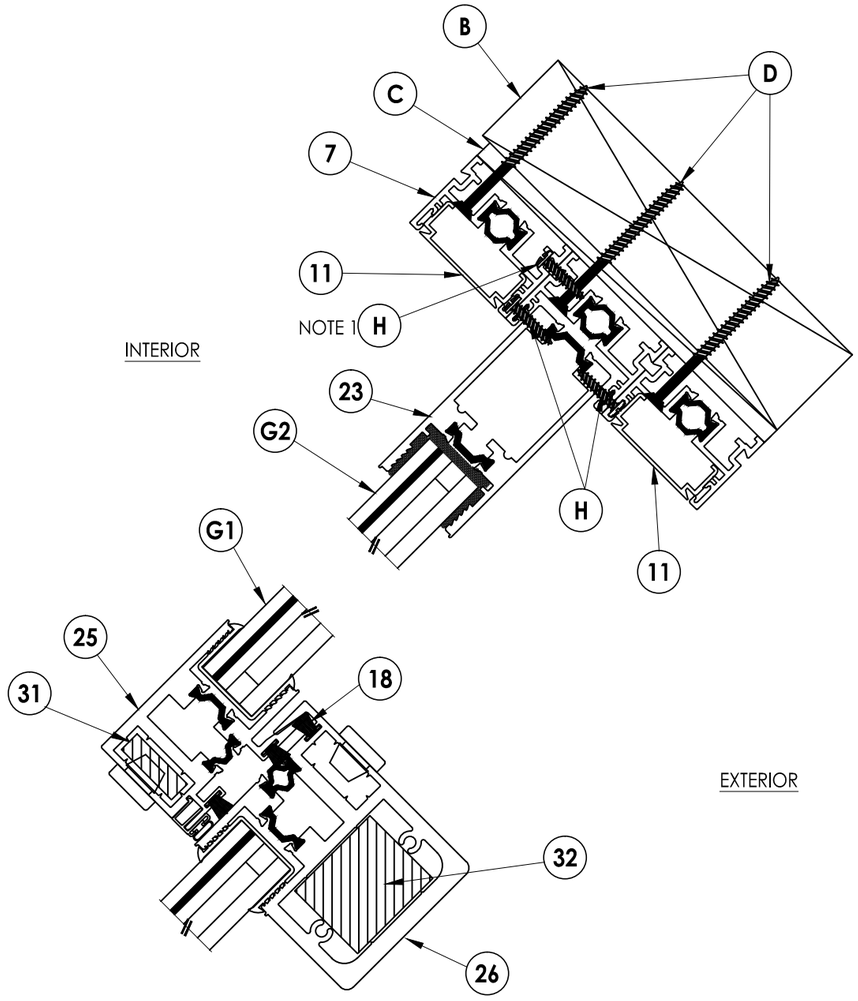
SCALE: DO NOT SCALE
DRAWING NO. 5
SHEET 5 OF 12



1/6 *HORIZONTAL CROSS SECTION*

NOTE:
1. 1" from each end then 60" on center
2. Interior or exterior (gasket cut 2" from top rail and bottom rail on stile).

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Report #: E8390-301-18
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REVISIONS	DATE	DRAWN BY	COMMENTS
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JOB NUMBER: 385199-V2

MATERIAL: SERIES 3070-T
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
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SCALE: DO NOT SCALE
DRAWING NO. 6
SHEET 6 OF 12

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Report #: E8390-301-18
Date: 07/13/16
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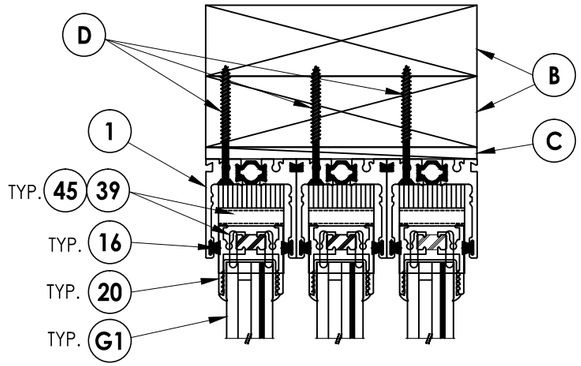

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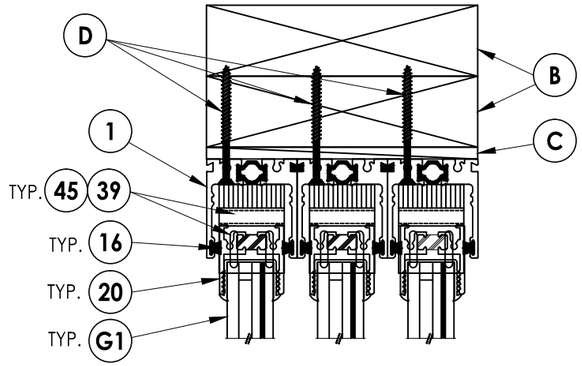

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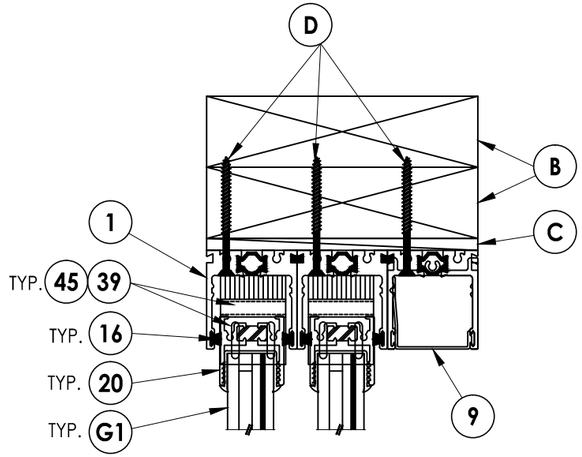

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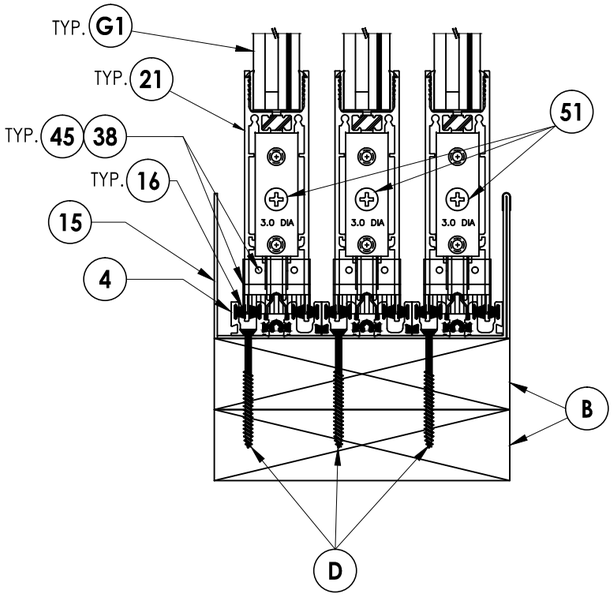
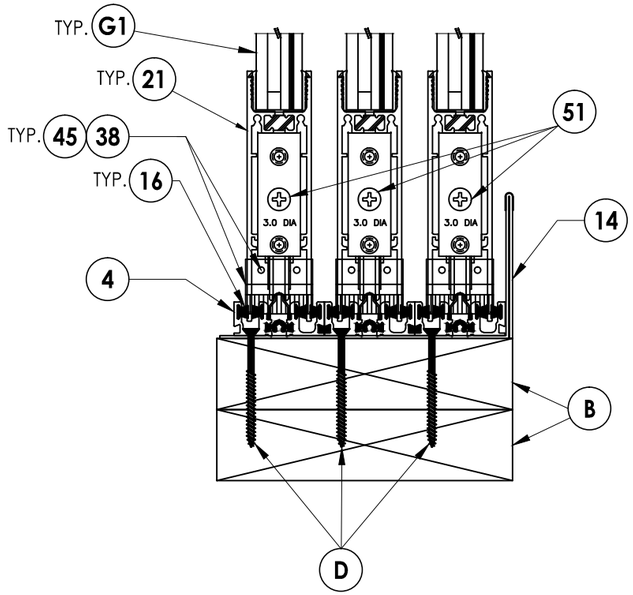


1/7 *VERTICAL CROSS SECTION*



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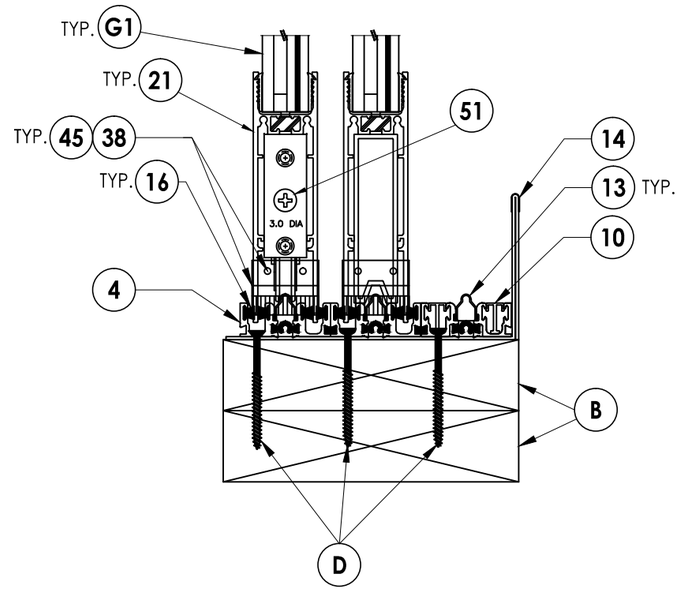

3/7 *VERTICAL CROSS SECTION*

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REV-1	6/28/16	BL	UPDATED GLASS

DRAWN BY: BL
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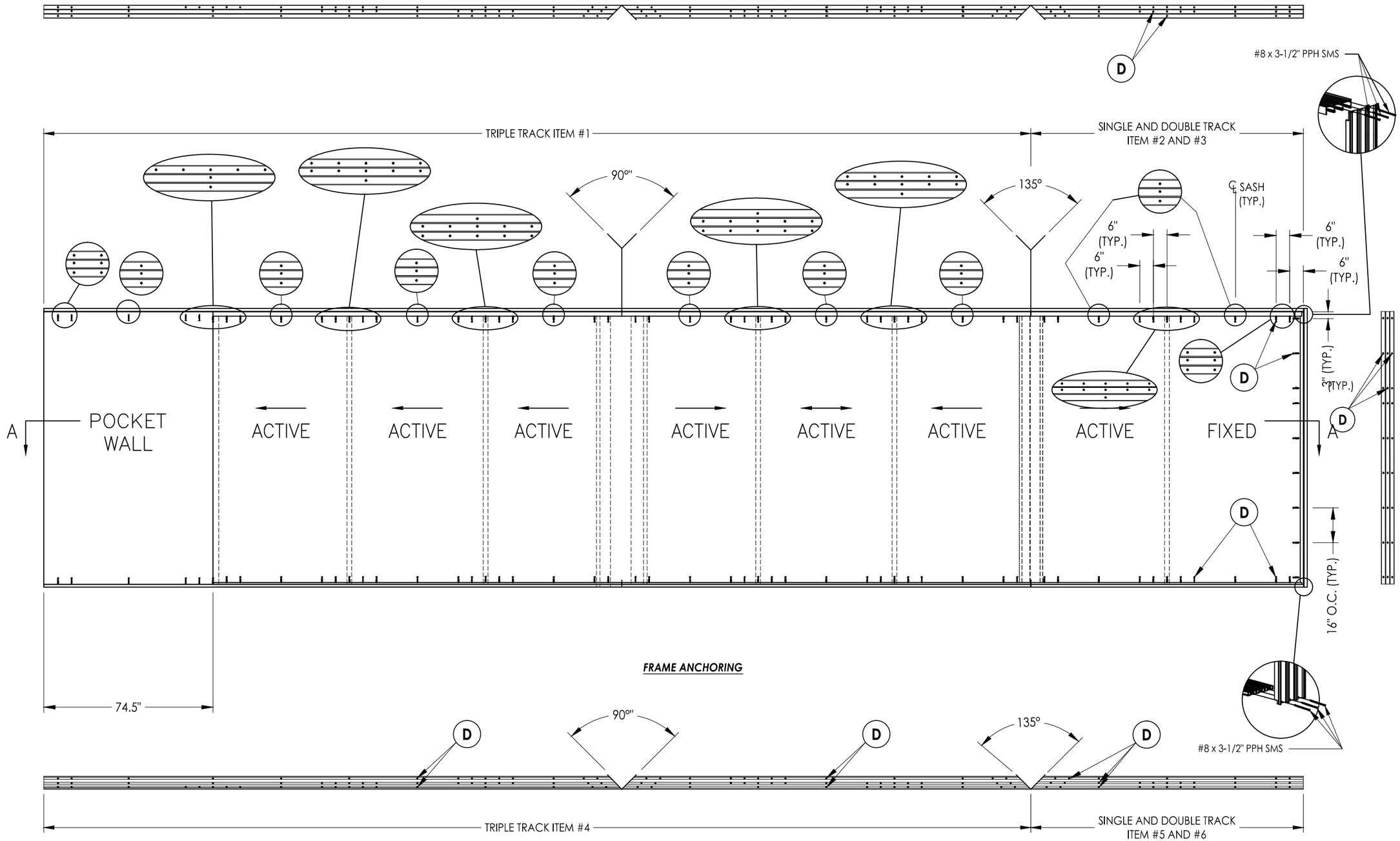
SCALE: DO NOT SCALE
DRAWING NO. 7
SHEET 7 OF 12



FRAME ANCHORING

SECTION A-A

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Report #: E8390-301-18
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REVISIONS	DATE	DRAWN BY	COMMENTS
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JOB NAME: FLEETWOOD TAS & AAMA TEST

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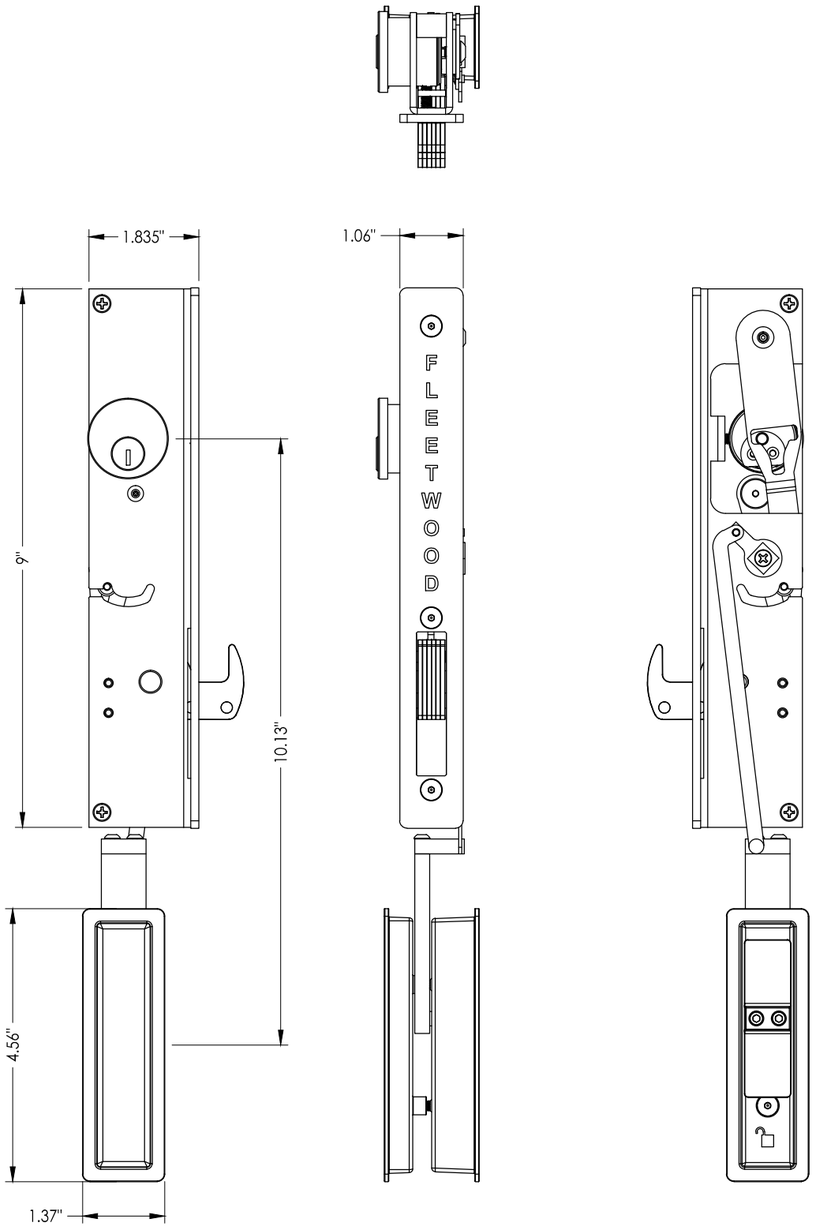
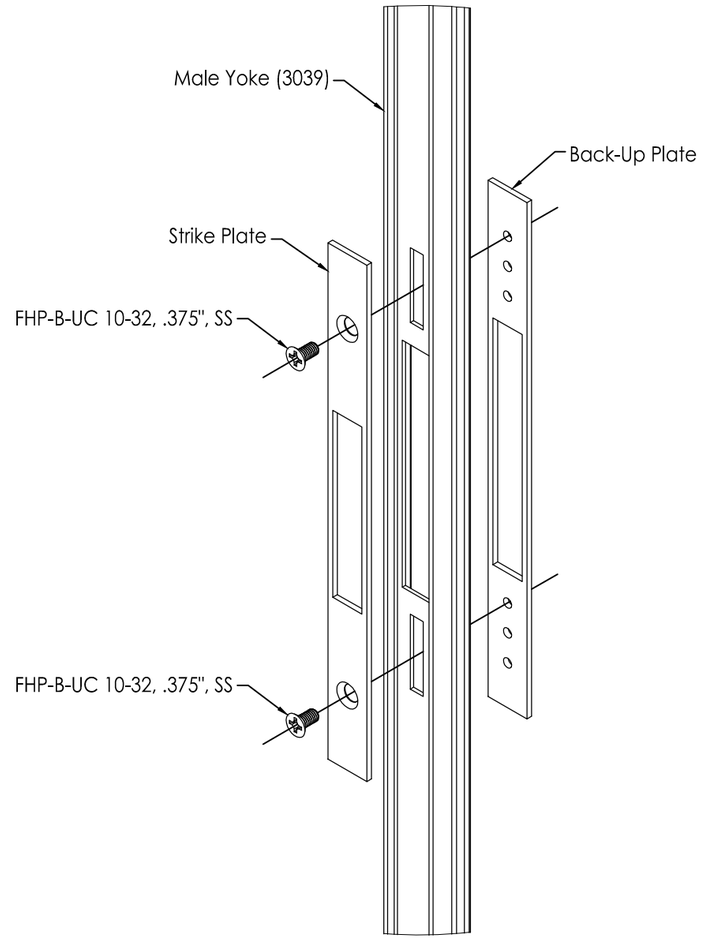
SCALE
DO NOT SCALE

DRAWING NO.
8

SHEET
8 OF 12



49 ARCHETYPE NARROW LOCK



41 STRIKE PLATE

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Date: 07/13/16
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REVISIONS	DATE	DRAWN BY	COMMENTS
REV-1	6/28/16	BL	UPDATED GLASS

DRAWN BY: BL
DATE: 6/22/15
JOB NUMBER: 385199-V2

MATERIAL: SERIES 3070-T
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: FLEETWOOD TAS & AAMA TEST

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SCALE: DO NOT SCALE
DRAWING NO. 9
SHEET 9 OF 12

50 *ARCHETYPE LOCK*

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Report #: E8390-301-18
Date: 07/13/16
Verified by:

REVISIONS	DATE	DRAWN BY	COMMENTS
REV-1	6/28/16	BL	UPDATED GLASS

MATERIAL: SERIES 3070-T
DRAWN BY: BL
DATE: 6/22/15
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: FLEETWOOD TAS & AAMA TEST
JOB NUMBER: 385199-V2

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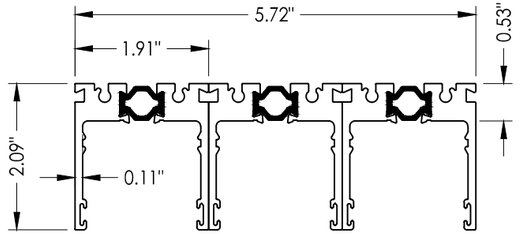
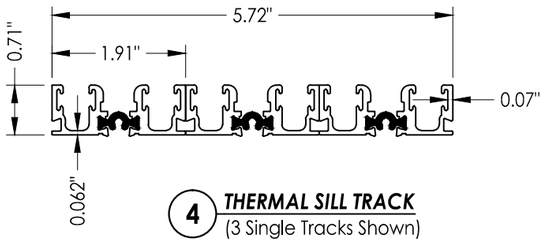
SCALE: DO NOT SCALE
DRAWING NO. 10
SHEET 10 OF 12



1 THERMAL HEAD TRACK
(3 Single Tracks Shown)



4 THERMAL SILL TRACK
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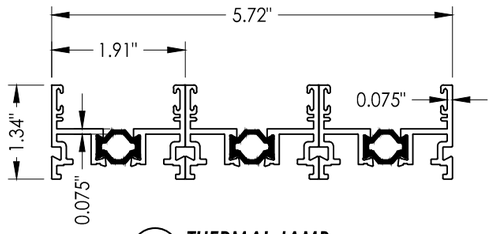
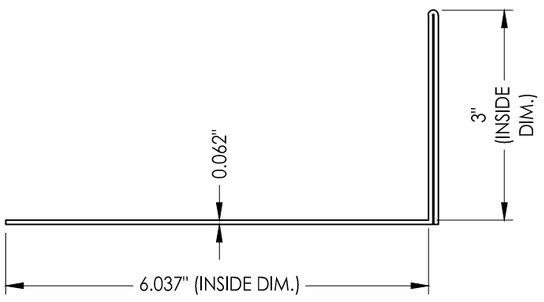
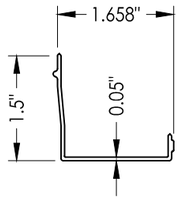


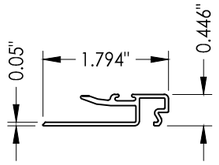
7 THERMAL JAMB
(3 Single Tracks Shown)



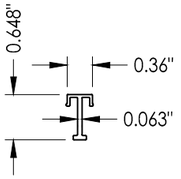
14 SILLPAN - 3 TRACK



9 HEAD FILLER



12 J-TYPE POST INTERLOCK



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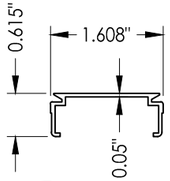

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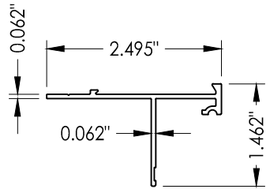

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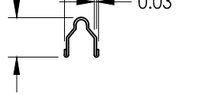

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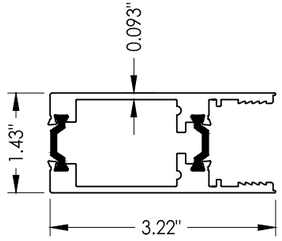
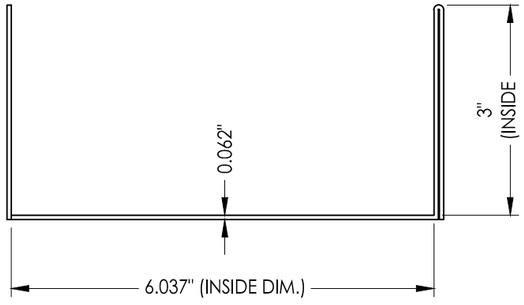
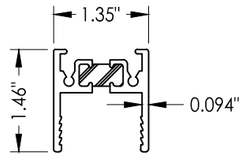


23 THERMA LOCK STILE
ARCHETYPE NARROW



15 SILLPAN - 3 TRACK
(Pocket)



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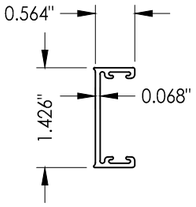
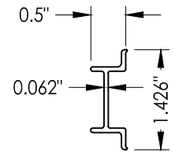
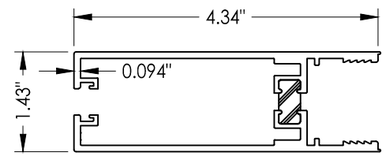


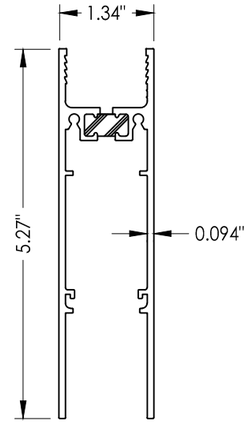
27 FEMALE YOKE



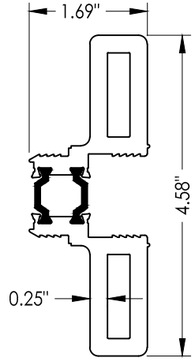
28 MALE YOKE



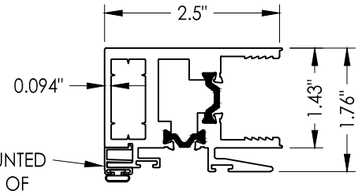
24 THERMAL LOCK STILE



21 THERMAL BOTTOM RAIL

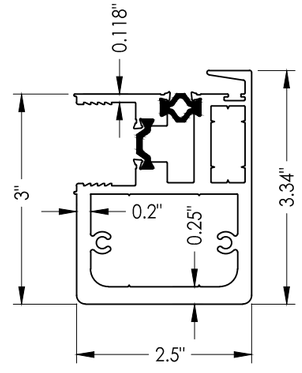


30 THERMAL HP ADAPTOR



6" AIR BARRIER MOUNTED
@ TOP & BOTTOM OF
EXTERIOR INTERLOCK STILE

25 THERMAL HP FIXED INTERLOCKER



26 THERMAL HP INTERLOCKER

Intertek

Report #: E8390-301-18
Date: 07/13/16
Verified by:

REVISIONS	DATE	DRAWN BY	COMMENTS
REV-1	6/28/16	BL	UPDATED GLASS

DRAWN BY: BL
DATE: 6/22/15
JOB NUMBER: 385199-V2

MATERIAL: SERIES 3070-T
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: FLEETWOOD TAS & AAMA TEST

FLEETWOOD
WINDOWS AND DOORS
1 FLEETWOOD WAY CORONA, CALIFORNIA 92879 - www.fleetwoodusa.com

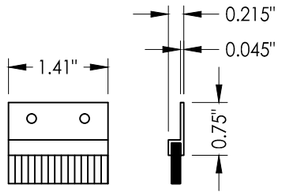
SCALE: DO NOT SCALE
DRAWING NO. 11
SHEET 11 OF 12

BILL OF MATERIALS

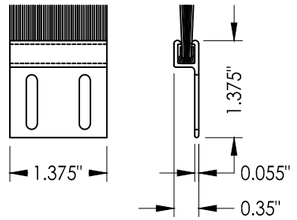
ITEM #	DESCRIPTION	PART#	MATERIAL
B	2X BUCK SG >= 0.55	N/A	WOOD
C	1/4" MAX. SHIM SPACE	N/A	-
D	#10 x 2-1/2" PFH WOOD SCREW	N/A	STEEL
F	#10 x 2" PPH WOOD SCREW	N/A	STEEL
G	#8 x 1-1/2" PFH WOOD SCREW	N/A	STEEL
H	#8 x 3/4" PPH SMS	N/A	STEEL
1	THERMAL HEAD (SINGLE TRACK)	3700	6063-T6 ALUM
4	THERMAL SILL (SINGLE TRACK)	3749	6063-T6 ALUM
7	THERMAL JAMB (SINGLE TRACK)	3711	6063-T6 ALUM
9	HEAD FILLER	3014	STAINLESS STELL
10	SILL FILLER	3747	STAINLESS STELL
11	JAMB FILLER	3710	STAINLESS STELL
12	J-POST INTERLOCKER SNAP-IN	3755	STAINLESS STELL
13	S.S. TRACK	FW1020	-
14	SILL PAN (3-TRACK)	3720-3	-
15	SILL PAN (3-TRACK)(POCKET)	3720-3	-
16	SMALL FIN SEAL .230	19118	6063-T6 ALUM
17	9/16" GLAZING VINYL (ASTM C864)	25033	6063-T6 ALUM
18	LARGE FIN SEAL .290	19117	6063-T6 ALUM
19	Q-LON (U5212)	19120	6063-T6 ALUM
20	THERMAL TOP RAIL	3004	6063-T6 ALUM
21	THERMAL BOTTOM RAIL	3027	6063-T6 ALUM
23	LOCK STILE (ARCHETYPE NARROW)	3773	6061-T6 ALUM
24	THERMAL LOCK STILE	3771	6061-T6 ALUM
25	HP THERMAL FIXED INTERLOCKER	3728	6061-T6 ALUM
26	HP THERMAL INTERLOCKER	3031	6061-T6 ALUM
27	FEMALE YOKE	3040	6061-T6 ALUM
28	MALE YOKE	3039	6061-T6 ALUM
29	WINDLOAD ADAPTOR	3715	6061-T6 ALUM
30	THERMAL HP ADAPTOR	3716	STAINLESS STEEL
31	0.31" X 1" SOLID ALUMINUM	N/A	6061-T6 ALUM
32	1.25" X 1.5" SOLID ALUMINUM	N/A	6061-T6 ALUM
33	135° SOLID YOKE BLOCK (ALUMINUM)	N/A	6061-T6 ALUM
37	0.75" X 1.25" SOLID ALUMINUM	N/A	6061-T6 ALUM
38	AIR BARRIER (SILL)	25383	-
39	AIR BARRIER (HEAD)	24097	-
40	6" AIR BARRIER FOR HP INTERLOCKER	25562	-
41	STRIKE PLATE	24980	STEEL
42	BACK UP PLATE	24981	STEEL
43	10-32 X .5" FHP	N/A	STEEL
44	#10 X 1" PHP	N/A	STEEL
45	#8 TEK X 1/2"	N/A	STEEL
46	DOW 995 SILICONE	N/A	-
47	POST INTERLOCKER NAIL-FIN	3756	6061-T6 ALUM
48	FLUSH PULL	-	S.S.
49	ARCHETYPE NARROW LOCK	-	-
50	ARCHETYPE LOCK	-	-
51	ARCHETYPE ROLLERS	-	-

Intertek

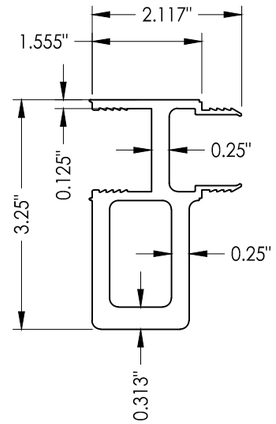
Report #: E8390-301-18
Date: 07/13/16
Verified by:



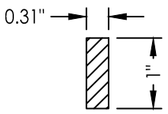
38 AIR BARRIER (SILL)
(AT INTERLOCKERS)



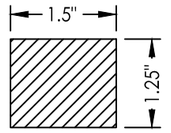
39 AIR BARRIER (HEAD)
(AT INTERLOCKERS)



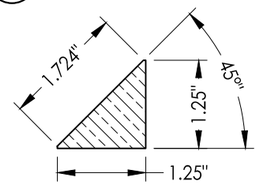
29 WINDLOAD ADAPTOR



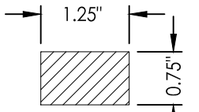
31 ALUMINUM REINFORCEMENT



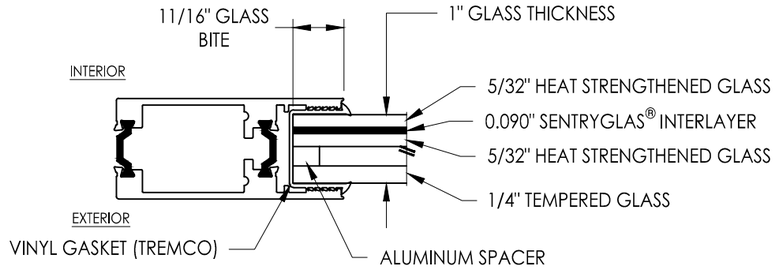
32 ALUMINUM REINFORCEMENT



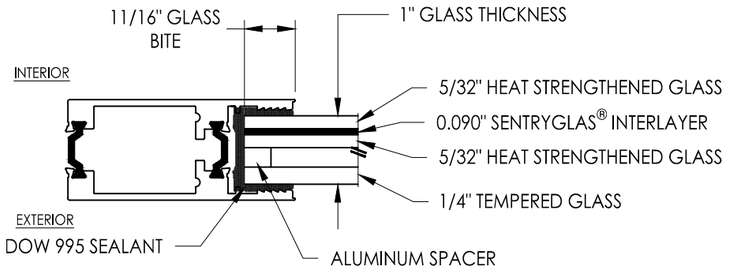
33 135° ALUMINUM SOLID YOKE BLOCK



37 ALUMINUM REINFORCEMENT



G1 GLAZING DETAIL
Dry Seal



G2 GLAZING DETAIL
Wet Seal

COMMENTS	UPDATED GLASS
DRAWN BY	BL
DATE	6/29/16
REVISIONS	REV-1
DRAWN BY:	BL
DATE:	6/22/15
JOB NUMBER:	385199-V2
MATERIAL:	SERIES 3070-T
CUSTOMER:	FLEETWOOD WINDOWS AND DOORS
JOB NAME:	FLEETWOOD TAS & AAMA TEST

FLEETWOOD
WINDOWS AND DOORS
1 FLEETWOOD WAY CORONA, CALIFORNIA 92879 - www.fleetwoodusa.com

SCALE
DO NOT SCALE

DRAWING NO.
12

SHEET
12 OF 12