

Fenestration Testing Laboratory, Inc.

10235 8th Street, Rancho Cucamonga, CA 91730

Report #: T21-073

REPORT SUMMARY

REPORT

T21-073

TESTED FOR

Fleetwood Windows and Doors

1 Fleetwood Way

Corona, CA 92879

SERIES & PRODUCT TYPE

EDGE - S THERMALLY BROKEN ALUMINUM SLIDING GLASS DOOR

CONFIGURATION

O|XX

FRAME SIZE

7308.85 mm x 3657.60 mm (287.75" x 144.00")

SPECIFICATION

NAFS - North American Fenestration Standard/specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/I.S.2/A440-17

A440S1-17 Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-11 North American
Fenestration Standard/Specification for windows, doors, and skylights

PRIMARY DESIGNATOR

CLASS R-PG20 7308.85 x 3657.60 mm (287.75 x 144.00 in) Type: SD

See page 6 for additional water testing to 7.5 psf

TEST COMPLETION DATE

April 14, 2022

REPORT DATE

July 22, 2022 – Updated

Fenestration Testing Laboratory, Inc.

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1.0 Tested For: Fleetwood Windows and 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 SLIDING GLASS DOOR described in paragraph 5.0 of this report.

3.0 Test References:

3.1 NAFS - North American Fenestration Standard/specification for windows, doors, and skylights
AAMA/WDMA/CSA 101/1.S.2/A440-17

3.2 A440S1-17 Canadian Supplement to AAMA/WDMA/CSA 101/1.S.2/A440-11 North American Fenestration Standard/Specification for windows, doors, and skylights

3.3 ASTM F 842-17 Forced Entry Resistance Tests for Sliding Door Assemblies

3.4 CAWM 300-96 Forced Entry Test Resistance Tests for Sliding Glass Doors

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 R-PG20 7308.85 x 3657.60 mm (287.75 x 144.00 in) Type: SD

5.0 Sample Submitted:

5.1 Product Type: THERMALLY BROKEN ALUMINUM SLIDING GLASS DOOR

5.2 Series: EDGE - S

5.3 Configuration: O|XX

5.4 Product Dimensions:	Millimeters	Inches
Total Frame:	7308.85 x 3657.60	287.75 x 144.00
All Panels - Same Size:	2441.70 x 3551.17	96.13 x 139.81

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>
1.25" overall wide	0.75"	3/8" Tempered	3/8" Tempered	All panels were channel glazed with aluminum "glass key" (see item 12 on the BOM) full perimeter on each side of the IGU. Each glass key was applied to the glass with silicone. The stiles and rails slid over the glass keys.

5.6 Weepage:

The sill consisted of two channels (two extrusions) mated together from right to left until reaching the fixed panel (left panel) interlock. At that point, the outside channel continued to the left jamb and the inside channel ended. The bottom of the sill legs contained six (6) weep notches measuring 1" x 7/8" through the bottom of all sill legs; two weeps per panel. The sill sat inside a sheet-metal pan conforming to the shape of the sill channels.

The sill pan contained six weep holes/drains. The window passed air infiltration and water penetration testing in two configurations: 1) With six vertical weep holes each measuring 1" diameter (the weep holes were connected to 1" piping with a check valve) and, 2) with six weep holes in the outside face each measuring 0.5" diameter (see Pg. 1 of for weep spacing details).

Along the inside perimeter of the sill pan to door sill was a full length 0.2" wide length drain between the sill inside perimeter and the pan inside leg (see pages 1, 2, and 3 of drawings for more details).

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5.7 Pressure balancing: None

5.8 Weather-stripping: There were two weather-strip options tested and two interior finish floor level options.

The frame head and jamb weather-stripping remained the same for both options.

Page 2 of drawings shows the weather-stripping for passing water penetration to 3.0 psf.

Page 3 of drawings shows the weather-stripping for passing up to 6.0 psf. Note that the finished floor level for both is the same. The performance of the door will depend on the installation of a finished floor with a smooth finish as was used on the tested sample.

Page 4 of drawings shows the weather-stripping for passing up to 7.5 psf when combined with an interior floor 0.875" higher than the threshold. Water did splash onto the vertical side of the raised floor but did not come onto the top of the raised floor.

Weather-strip in common to all options for water penetration:

<i>Type</i>	<i>Location</i>
Polypile with center fin 0.230" x 0.270" backing	Head – each active and fixed channel contained two strips – one facing in and one facing out. Jambs – each jamb contained two strips – one facing in and one facing out.

Weather-strip used at interlocks and at bottom of panels per page 2 for performance to 3.0 psf

<i>Type</i>	<i>Location</i>
Polypile with center fin 0.230" x 0.270" backing (Item #27 on the BOM)	Each interlock (referred to as "keep" in Fleetwood drawings and BOM) contained one strip facing the opposite interlock.
Air barrier vinyl (See item #26 in the BOM)	Each interlock (referred to as "keep" in Fleetwood drawings and BOM) contained one strip.
Flexible vinyl air barrier or 3 finger vinyl	Each interlock contained a 2" piece at the bottom
Bottom vinyl (See item #25 on the BOM)	Each panel bottom rail contained two strips facing down.

Weather-strip used at interlocks and at bottom of panels per page 3 for performance to at 3.0, 6.0 and to 7.5 psf (to achieve 7.5 psf, the higher finished floor option applied as shown on page 4)

<i>Type</i>	<i>Location</i>
Polypile with center fin 0.290" x 0.270" backing (Item #20 on the BOM)	Each interlock contained one strip facing the opposite interlock. (Took the place of the 0.230" high in option on page 2)
Polypile with center fin 0.500" x 0.187" backing (Item #17 in the BOM)	Each interlock contained one strip. (Took the place of Air barrier vinyl)
Polypile with center fin 0.350" x 0.187" backing (Item #16 on the BOM)	Each panel bottom rail contained two strips facing down. (Took the place of the "bottom vinyl")

5.9 Sealants:

- Frame corners were sealed full profile.
- Rail to stile corners were sealed.
- Plywood used as finished floor around sill roller channels was sealed to the sill and jambs.
- Shoot bolt keepers were sealed to plywood serving as finished floor surrounding the keeper
- Frame was sealed to the rough opening full perimeter on the exterior and interior perimeters.
- The aluminum sill pan joints were soldered.
- All frame anchor screws were sealed.

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5.10 Hardware:

<i>Type</i>	<i>Quantity</i>	<i>Location</i>
Shoot bolt, slide operator, and keeper	Three (3)	The center panel contained one stainless steel shoot bolt at the bottom end at each interlock stile. The right panel contained a shoot bolt in the jamb stile. Each shoot bolt was operated by a recessed slide handle located 40.5" from the bottom and fastened to a backing plate with a pair of screws. Each shoot bolt engaged a metal block with hole to receive the shoot bolt. Each block was fastened to the sill with a pair of #10 x 1" PPH screws.
Roller/Sheaves in stainless steel housing	See "Location"	Each sliding channel contained rollers every 6" on center a total of 31 per sliding channel. The sliding panels contained a stainless steel "Keel" that slid on the rollers. The keel was a fastened to a full length steel plate forming part of the bottom rail with #8 x 3/8" PFH screws.

5.11 Construction:

<i>Location</i>	<i>Joinery Type</i>	<i>Number of Fasteners</i>	<i>Fastener Size</i>
Frame corners	Mechanically joined with screws	Head and sill were each fastened to the jamb with a pair of screws per head or sill channel.	#10 x 1" PPH
Panel corners	Mechanically joined with screws	Stiles to rails were joined with a pair of screws.	#10 x 1-3/4" Pan Head
The fixed panel bottom rail stainless steel keel sat on a full length aluminum extrusion (Sheave Block) in the sill channel. The fixed panel was secured to the end of the frame head with an "L" bracket and threaded bolt.			
The two head channel extrusions were joined by a polyamide strut.			
Two snap-in anti-lift blocks were applied the head at ¼ points above each active panel.			
The fixed panel was fastened to frame with a fixed panel bracket as shown on drawing page 7 of 7.			
The bottom rail for each panel consisted of two aluminum extrusions mirroring each other and joined by a stainless steel plate fastened to each aluminum extrusion with a pair of machine screws 1" from each end and approximately 9" on center. The stainless steel plate was in turn fastened to the stainless steel keel with #8-32 PFH screws (see attached drawing page 6 of 7 "Keel to bottom rail assembly")			
Note that the finished floor level is the same as the level of the floor under the panels for achieving water penetration at 3.0 psf and 6.0 psf. However, to achieve a water penetration performance of 7.5 psf, Fleetwood simulated an interior finished floor 0.875" higher than the finish floor at the door panels. This is shown on page 4.			

5.12 Reinforcement: None

5.13 Installation:

<p>Head and jambs were fastened to the rough opening with #8 x 2" SMS screws 8" from ends and 24" on center.</p> <p>-Where the head consisted of two channels, there was a pair of screws per spacing above (one per channel). Above the fixed panel, the head consisted of one channel with one screw per spacing above (see page 1 of 5 for more details).</p> <p>-The lock jamb was a one piece extrusion as wide as the two channel head and there were a pair of screws per spacing above.</p> <p>-The fixed jamb was a single channel with one screw per spacing above.</p> <p>-The sill was surrounded and supported by 2x lumber to simulate installation recessed into a floor.</p>
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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.

Note that testing for operation, air infiltration, air exfiltration, water penetration and structural load Were conducted with fin interlocks (referred to as "Fin Keep" in the BOM) and as shown in details 9 & 10 on page 2 of drawings. Additional structural load testing was conducted with non-fin interlocks as described in details 6 & 7, and detail 11 on page 2 of drawings. See "Additional Testing" for those results.

9.3.1 - Operation Force (ASTM E2068-00(2016))

Test Description	Results	Allowed	Comments
Maximum force to initiate motion	55.60 N (12.50 lbf)	135 N (30.35 lbf)	
Maximum force to maintain motion	32.02 N (7.20 lbf)	110 N (24.73 lbf)	
Latching device force	22.24 N (5.00 lbf)	100 N (22.48 lbf)	

9.3.2 - Air Infiltration (ASTM E283/E283M-19)

Test Description	Results	Allowed	Comments
75 Pa differential pressure	1.05 L/s*m ²	1.5 L/s*m ²	
1.57 psf differential pressure	0.21 cfm/ft ²	0.30 cfm/ft ²	
The tested specimen meets the performance levels specified in AAMA/WDMA/CSA 101/1.S.2/A440 for air leakage resistance.			

9.3.2 - Air Exfiltration (ASTM E283/E283M-19)

Test Description	Results	Allowed	Comments
75 Pa differential pressure	0.90 L/s*m ²	1.5 L/s*m ²	
1.57 psf differential pressure	0.18 cfm/ft ²	0.30 cfm/ft ²	
The tested specimen meets the A2 Canadian air exfiltration performance requirements specified in AAMA/WDMA/CSA 101/1.S.2/A440 for air leakage resistance.			

9.3.3 - Water Penetration (ASTM E547-00(2016)) -with weather-stripping per page 2

Test Description	Results	Allowed	Comments
DP20 - 150 Pa (3.13 psf)	No water penetration	No water penetration	1

With interlocks per detail 9 & 10 on page 2 of 6 of drawings.

9.3.4.2 - Uniform Load Deflection at Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
DP20 - 960 Pa (20.05 psf)Pos	29.46 mm (1.16")	Report only	2
DP20 - 960 Pa (20.05 psf)Neg	25.40 mm (1.00")	Report only	2

9.3.4.3 - Uniform Load Structural at 1.5 x Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
OL for DP20 - 1440 Pa (30.08 psf)Pos	0.25 mm (0.01")	13.97 mm (0.55")	2
OL for DP20 - 1440 Pa (30.08 psf)Neg	1.27 mm (0.05")	13.97 mm (0.55")	2

9.3.5 - Forced Entry Resistance (ASTM F842-17 & CAWM 300-96)

Test Description	Results	Allowed	Comments
ASTM F842 Type A D and CAWM Type I	No Entry	No Entry	3

9.3.6.3 - Deglazing Test

Test Description	Results	Allowed	Comments
Active Sash Pull Stile - 320 N (71.94 lbf)	5%	Less than 90% of glazing bite	
Active Sash Rail - 230 N (51.71 lbf)	4%	Less than 90% of glazing bite	

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Additional Structural Testing: Refer to page 2 of 7 for details of types of interlocks used for the following testing.

With interlocks per details 6 & 7 on page 2 of 7 of drawings

9.3.4.2 – Uniform Load Deflection at Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
DP20 - 960 Pa (20.05 psf)Pos)	43.69 mm (1.72")	Report only	2
DP20 - 960 Pa (20.05 psf)Neg)	46.48 mm (1.83")	Report only	2

9.3.4.3 – Uniform Load Structural at 1.5 x Design Pressure (ASTM E330-14)-With interlocks per details 6 & 7 on page 2 of 7

Test Description	Results	Allowed	Comments
OL for DP20 - 1440 Pa (30.08 psf)Pos)	0.51 mm (0.02")	13.97 mm (0.55")	2
OL for DP20 - 1440 Pa (30.08 psf)Neg)	0.51 mm (0.02")	13.97 mm (0.55")	2

With interlocks per detail 11 on page 2 of 6 of drawings

9.3.4.2 – Uniform Load Deflection at Design Pressure (ASTM E330-14)-With interlocks per detail 11 on page 2 of 7

Test Description	Results	Allowed	Comments
DP20 - 960 Pa (20.05 psf)Pos)	100.08 mm (3.94")	Report only	2
DP20 - 960 Pa (20.05 psf)Neg)	83.82 mm (3.30")	Report only	2

9.3.4.3 – Uniform Load Structural at 1.5 x Design Pressure (ASTM E330-14)

Test Description	Results	Allowed	Comments
OL for DP20 - 1440 Pa (30.08 psf)Pos)	8.38 mm (0.33")	13.97 mm (0.55")	2
OL for DP20 - 1440 Pa (30.08 psf)Neg)	8.89 mm (0.35")	13.97 mm (0.55")	2

Additional Water Testing to 6.0 psf –

Weather-stripping per page 3 and finish floor at same level as threshold

9.3.3 – Water Penetration (ASTM E547-00(2016))

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

Additional Water Testing to 7.5 psf

Weather-stripping per page 3 and finished floor per page 4 (0.875" higher than threshold)

9.3.3 – Water Penetration (ASTM E547-00(2016))

Test Description	Results	Allowed	Comments
360 Pa (7.52 psf)	No water penetration	No water penetration	1

Comment #1 - Tested without insect screen.

Comment #2 - Deflection measurement taken from the panel interlocks.

Comment #3 - FER per ASTM F842 passed at grade 10.

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

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For a complete description of the tested sample, refer to the attached seven (7) pages consisting of a bill of materials, cross section drawings, and individual part 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 part 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.

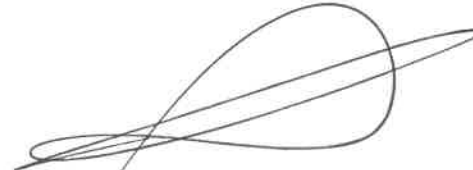
This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory, Inc (FTL).

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.

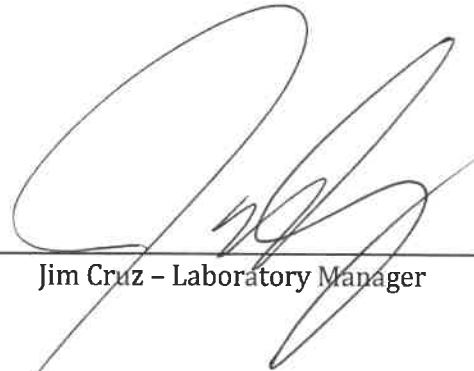
Test Completion Date: April 14, 2022

Report Completion Date: July 22, 2022

Note that any version prior to July 22, 2022 no longer applies.



Pete Cruz - Test Engineer



Jim Cruz - Laboratory Manager

TABLE OF CONTENTS

- SHEET NO.
 1. GENERAL NOTES, DESIGN LOADS, FRAME ANCHOR TABLE AND SPECIMEN D1 ELEVATION
 2. DETAILS
 3. BILL OF MATERIALS

TEST SPECIMEN

1. SERIES / MODEL: EDGE | s |
 2. PRODUCT TYPE: MULTI-SLIDE DOOR WITH SUB DRAINAGE SYSTEM

GENERAL NOTES

1. BUCKING OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER LOADS TO THE STRUCTURE AND TO BE REVIEWED BY BUILDING OFFICIAL.
 2. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
 3. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF AAMA AND BUILDING CODE.

SPECIFICATIONS

1. NAFS-11

CORNERS CONSTRUCTION

1. **FRAME CORNER:** THE JAMBS ARE BUTTED TO THE HEAD AND SILL AND ATTACHED WITH SCREWS.
PANEL CORNER: THE HORIZONTAL RAILS ARE BUTTED TO THE VERTICALS AND ATTACHED WITH SCREWS.

GLAZING

- LITE 1: 1.25": CLEAR 3/8"-T, 0.75 AIR, CLEAR 3/8"-T
 LITE 2: 1.25": CLEAR 3/8"-T, 0.75 AIR, CLEAR 3/8"-T
 LITE 3: 1.25": CLEAR 3/8"-T, 0.75 AIR, CLEAR 3/8"-T
 ALL GLAZING SIKASIL AS-785, INSIDE KEY ALONG LENGTH, KEYS ARE EXTERIOR AND INTERIOR

SUB-SILLPAN DRAIN CONNECTION

1/2" OR 1" PVC PIPES CONNECT TO 2" PVC PIPE.

***FRAME ANCHOR REQUIREMENTS TABLE**

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	(1) NO. 8 SMS SCREW	1 1/2"	3/4"
MIN. 18 GA. 33 KSI STEEL STUD	(1) NO. 8 SMS SCREW	FULL	3/8"
CMU/CONCRETE	(2) 3/16" CONCRETE SCREWS	1 1/4"	2 5/8"

(1) SMS SCREWS
 (2) CONCRETE SCREWS SHALL BE 3/16" ITW TAPCON

AIR

CFM / FT ²	
INFIL.	EXFIL.
0.21	0.18

WATER

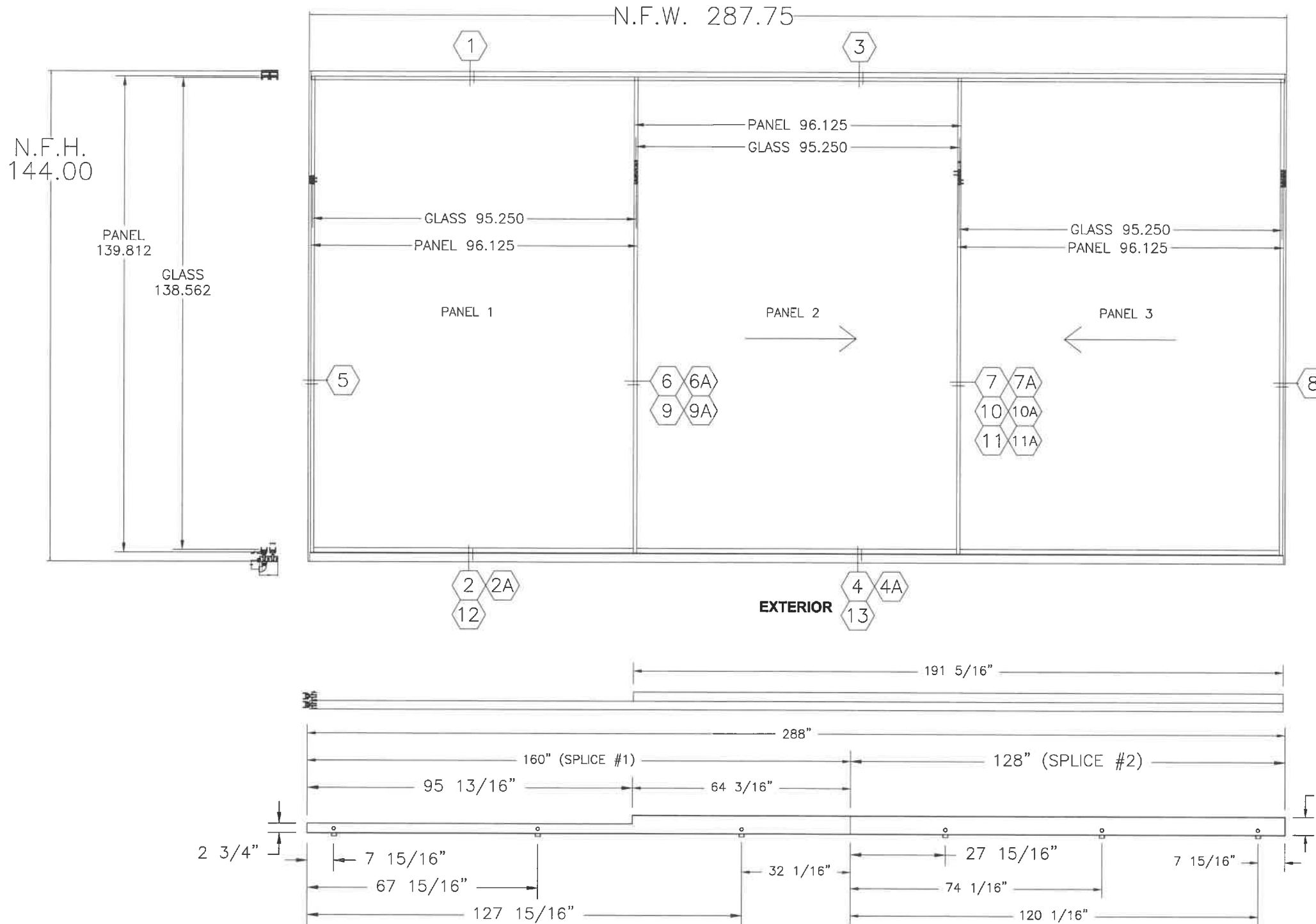
DP	RATING	PASS/FAIL	SHEET #
20	3 PSF	PASS	2 OR 3
40	6 PSF	PASS	3
50	7.5 PSF	PASS	4

OPENING FORCE

PANEL #	FORCE (LBS)
1	FIXED PANEL
2	10
3	12

DESIGN PRESSURE TABLE

MAX DOOR HEIGHT	DESIGN PRESSURE (PSF)		
	KEEP STYLE	POSITIVE	NEGATIVE
144"	FIN/FIN	20	20
	FIN/KEEP	20	20
	KEEP/KEEP	20	20



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 DATE: 7/19/22

DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS
12/16/21							

COMMENTS

DRAWN BY: CU

DATE: 12/16/21

JOB NUMBER: 481863

MATERIAL: EDGE | s |

CUSTOMER: FLEETWOOD WINDOWS AND DOORS

JOB NAME: EDGE | s | Cant Testing

**1 FLEETWOOD WAY
 CORONA, CA 92879
 www.fleetwoodusa.com**

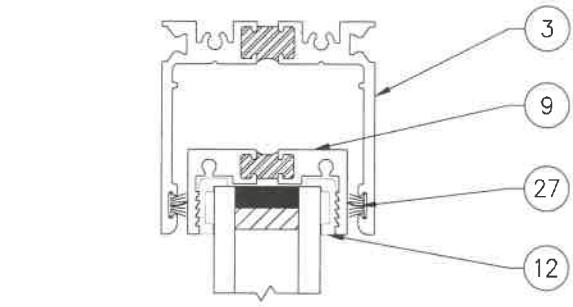
**FLEETWOOD
 WINDOWS & DOORS**

SCALE:
 3/4" = 1'

DRAWING NO.:
 (1)

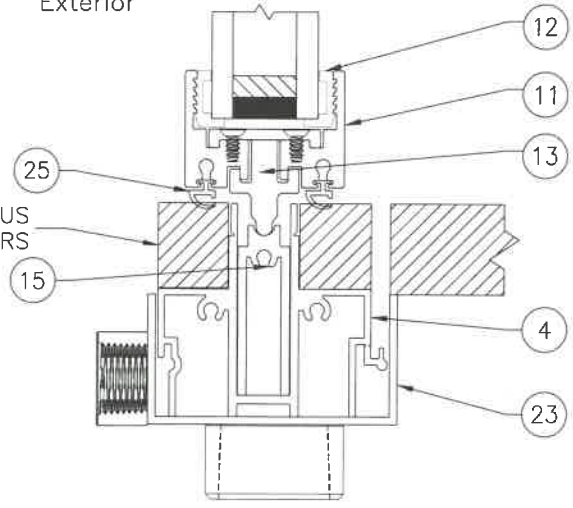
SHEET:
 1 OF 5

1 HEAD
SCALE: FULL SIZE

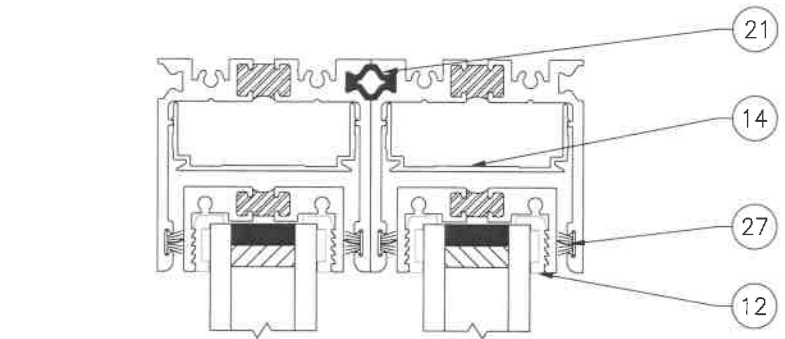


Exterior

2 SILL
SCALE: FULL SIZE

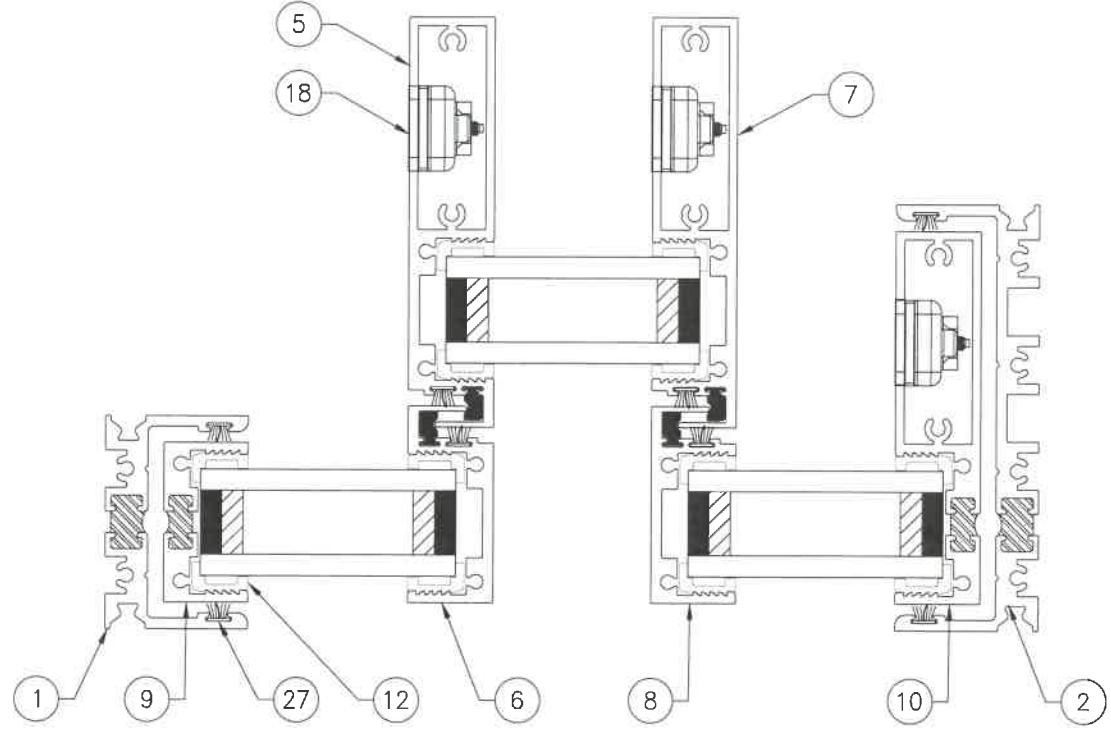
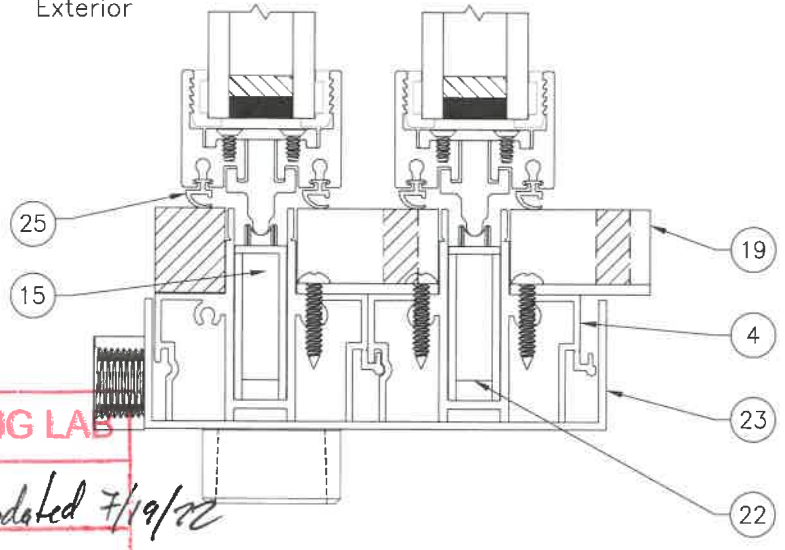


3 HEAD
SCALE: FULL SIZE



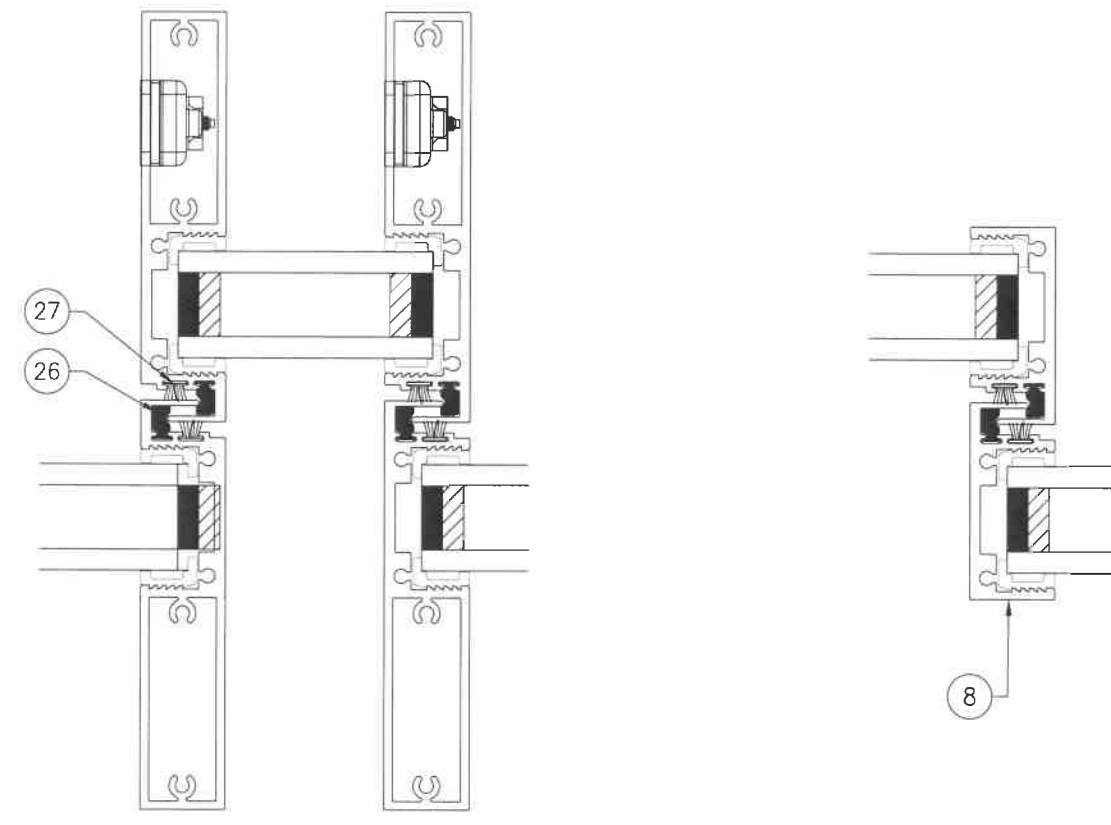
Exterior

4 SILL
SCALE: FULL SIZE



Exterior

5 FIXED JAMB SCALE: FULL SIZE
6 MEETING STILES SCALE: FULL SIZE
7 FIN-KEEPS SCALE: FULL SIZE
8 LOCKING JAMB SCALE: FULL SIZE



Exterior

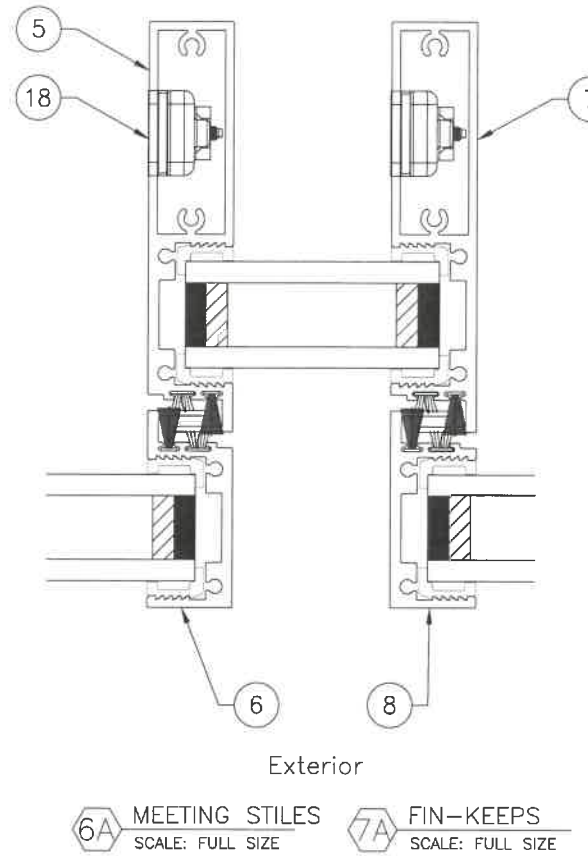
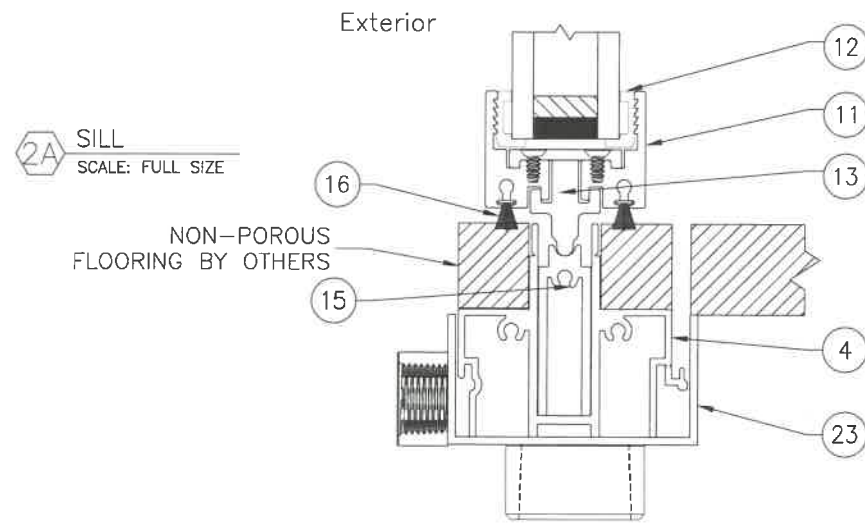
9 MEETING STILES SCALE: FULL SIZE
10 FIN-FIN KEEPS SCALE: FULL SIZE
11 KEEP-KEEPS SCALE: FULL SIZE

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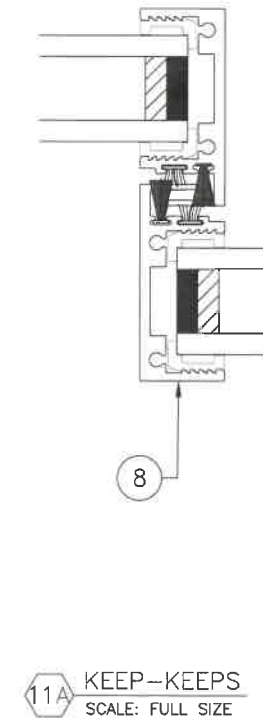
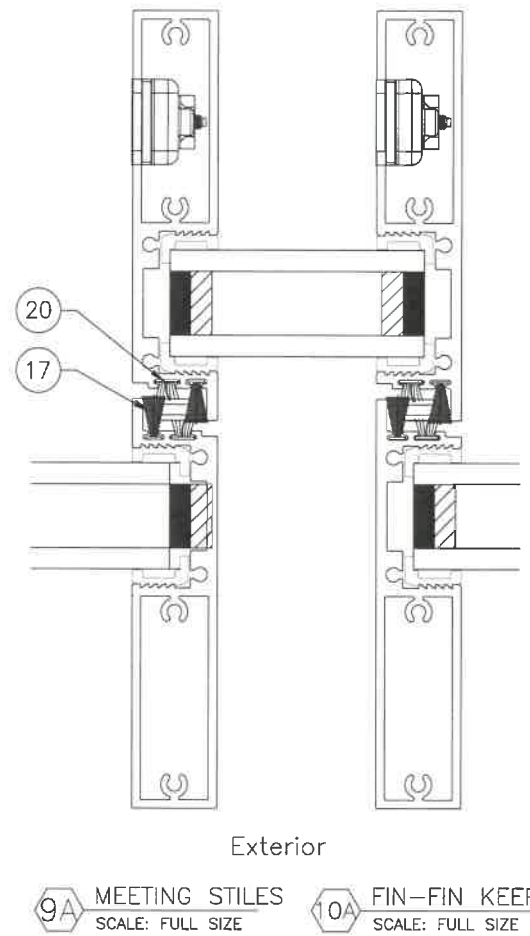
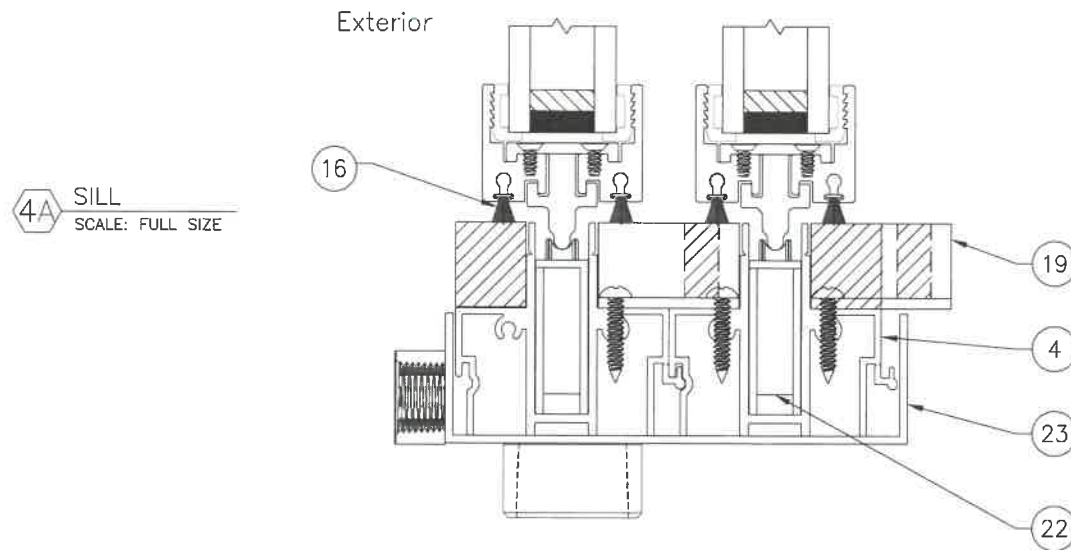
MATERIAL: EDGE s		REVISIONS	DATE	DRAWN BY	COMMENTS
CUSTOMER: FLEETWOOD WINDOWS AND DOORS			12/16/21	CJ	
JOB NAME: EDGE s Cert. Testing					
1 FLEETWOOD WAY CORONA, CA 92879 www.fleetwoodusa.com					
FLEETWOOD WINDOWS & DOORS					
SCALE: 1" = 1"					
DRAWING NO. (2)					
SHEET 2 OF 5					

ADDITIONAL TESTING:
DETAILS FOR MAX 6 PSF WATER
PENETRATION RESISTANCE



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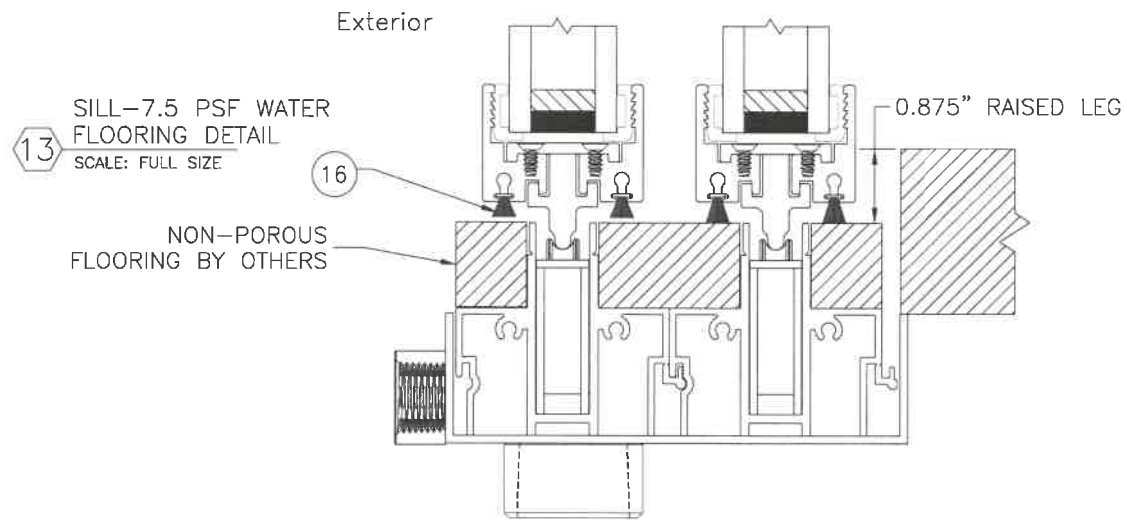
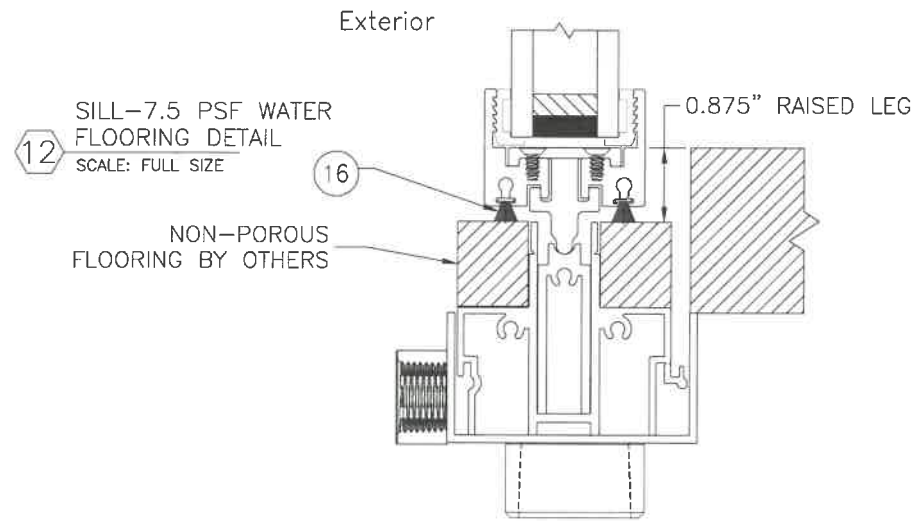


REVISIONS	DATE	DRAWN BY	COMMENTS

DRAWN BY: CJ	DATE: 12/16/21	JOB NUMBER: 481853
MATERIAL: EDGE s		
CUSTOMER: FLEETWOOD WINDOWS AND DOORS		
JOB NAME: EDGE s Cert Testing		

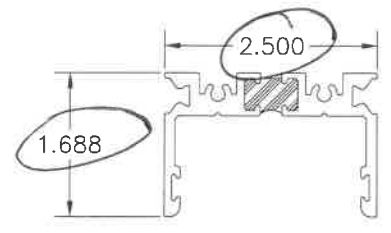
1 FLEETWOOD WAY CORONA, CA 92879 www.fleetwoodusa.com		
FLEETWOOD WINDOWS & DOORS		
SCALE :	1' = 1'	
DRAWING NO. :	(3)	
SHEET :	3 OF 5	

ADDITIONAL TESTING:
 DETAILS FOR MAX 7.5 PSF WATER
 PENETRATION RESISTANCE

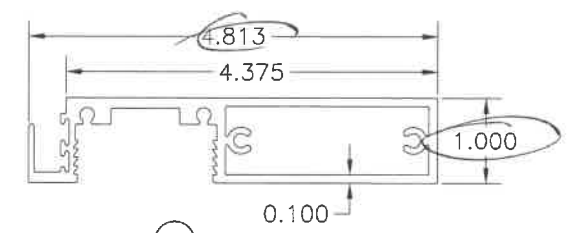


FENESTRATION TESTING LAB
 REPORT NO: T21-073 updated 7/19/22
 DATE: 7/19/22

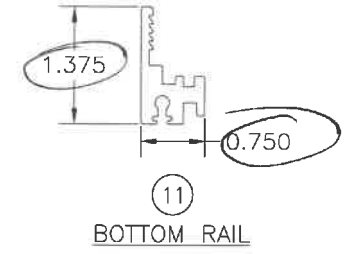
MATERIAL: EDGE s	DRAWN BY: CJ	DATE: 12/16/21	REVISIONS:	DRAWN BY:	COMMENTS:
CUSTOMER: FLEETWOOD WINDOWS AND DOORS	JOB NUMBER: 481853				
JOB NAME: EDGE s Cert Testing					
<p>1 FLEETWOOD WAY CORONA, CA 92879 www.fleetwoodusa.com</p> <p>FLEETWOOD WINDOWS & DOORS</p>					
SCALE: 1" = 1'					
DRAWING NO.: (4)					
SHEET: 4 OF 5					



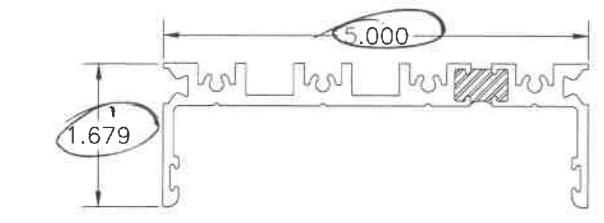
① JAMB



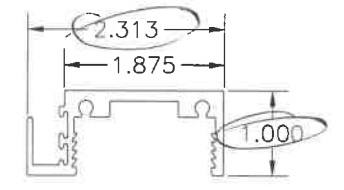
⑤ REVERSE FIN KEEP



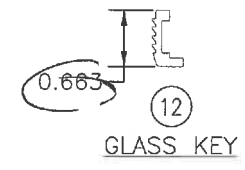
⑪ BOTTOM RAIL



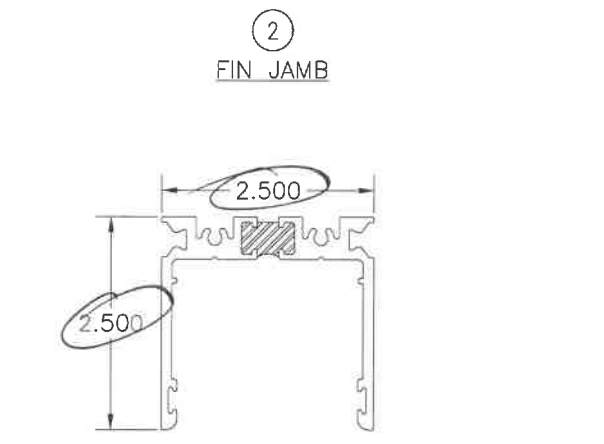
② FIN JAMB



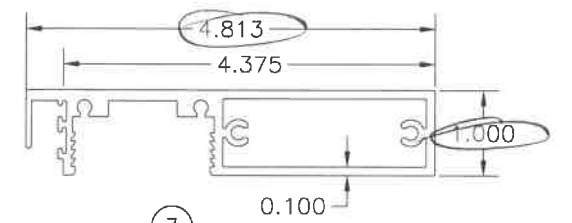
⑥ REVERSE KEEP



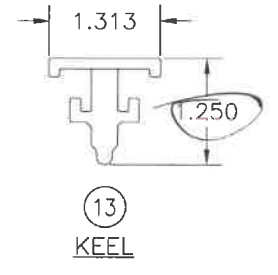
⑫ GLASS KEY



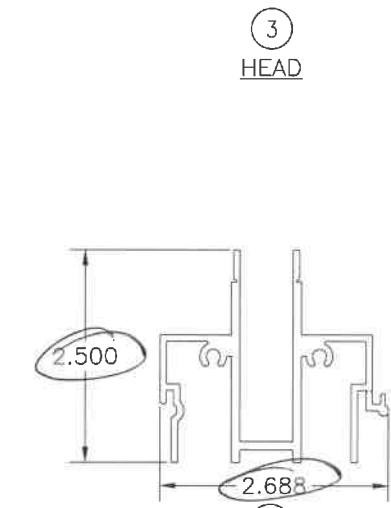
③ HEAD



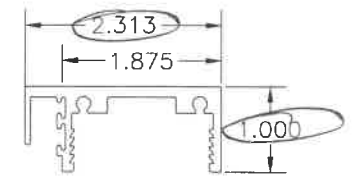
⑦ FIN KEEP



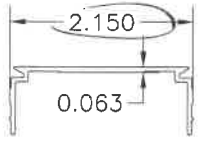
⑬ KEEL



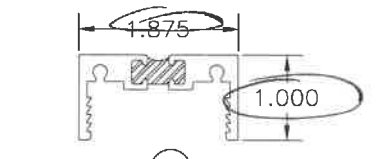
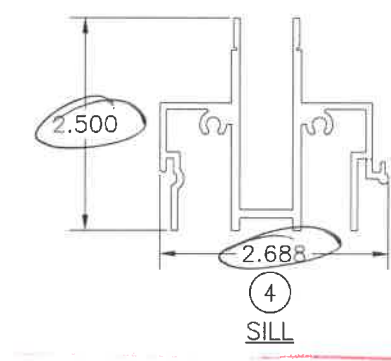
④ SILL



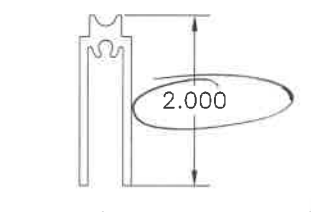
⑧ KEEP



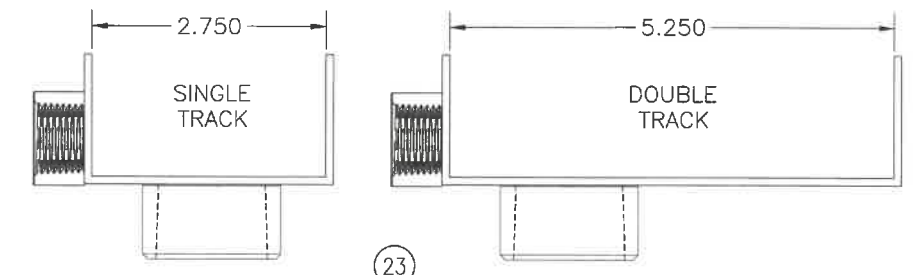
⑭ ANTI-LIFT



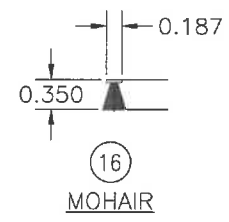
⑨ TOP RAIL / LEAD STILE



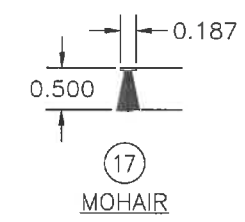
⑮ SHEAVE BLOCK



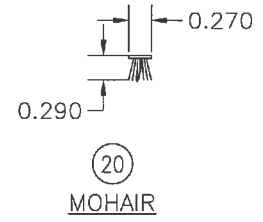
⑲ ARCHEDUCT (SIDE AND BOTTOM DRAINS)



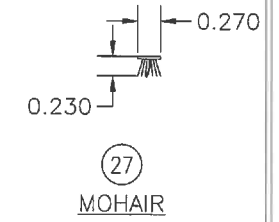
⑯ MOHAIR



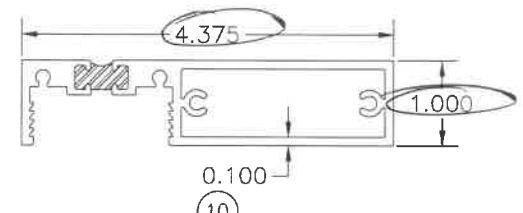
⑰ MOHAIR



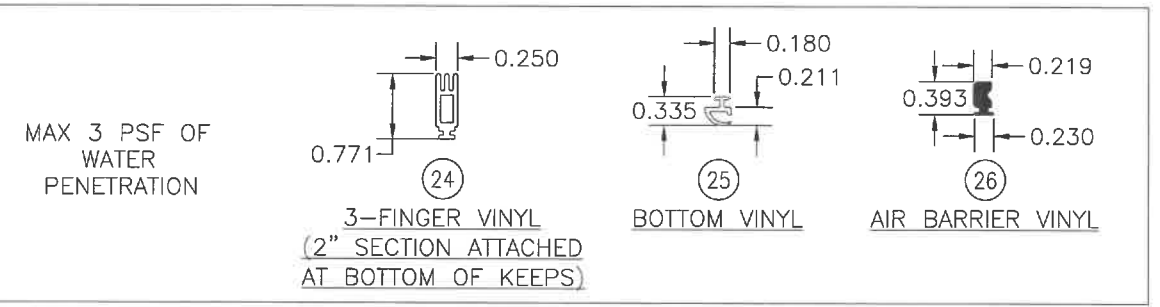
⑳ MOHAIR



㉓ MOHAIR



⑩ FIN LEAD STILE



MAX 3 PSF OF WATER PENETRATION

⑳ 3-FINGER VINYL (2" SECTION ATTACHED AT BOTTOM OF KEEPS)

㉔ BOTTOM VINYL

㉕ AIR BARRIER VINYL

EXTRUSION LIST

ITEM #	FWID	DESCRIPTION
1	ES0016	JAMB
2	ES0005	FIN-JAMB
3	ES0004	HEAD
4	ES0003	SILL
5	ES0011	REVERSE FIN-KEEP
6	ES0014	REVERSE KEEP
7	ES0010	FIN-KEEP
8	ES0009	KEEP
9	ES0007	TOP RAIL / LEAD STILE
10	ES0008	FIN LEAD STILE
11	ES0001	BOTTOM RAIL
12	ES0002	GLASS KEY (EXACT)
13	26467	KEEL (STAINLESS STEEL)
14	ES0013	ANILIFT
15	ES0019	SHEAVE BLOCK

HARDWARE LIST

16	27314	MOHAIR (35018745BKGB)
17	27031	LARGE MOHAIR (500187BKGB)
18	26919	BLADE (LOCKING HARDWARE)
19	26930	BLADE CASE
20	19117	MOHAIR (29027045BKGB)
21	25065	STRUT 14.6mmX10.2mm
22	26900	A4-E SHEAVE
23	-	ARCHE-DUCT PAN
24	26046	FLEXIBLE VINYL AIR BARRIER
25	26965	BOTTOM VINYL
26	26964	AIR BARRIER VINYL
27	19118	MOHAIR (23027045BKGB)

FENESTRATION TESTING LAB

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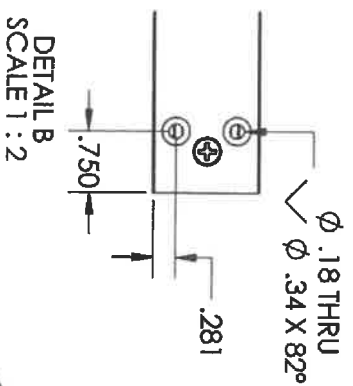
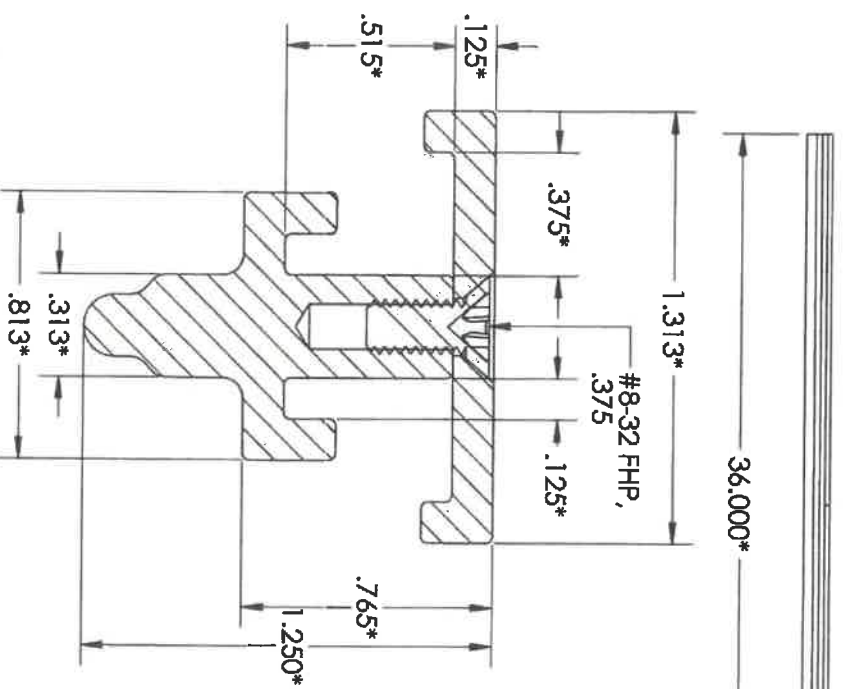
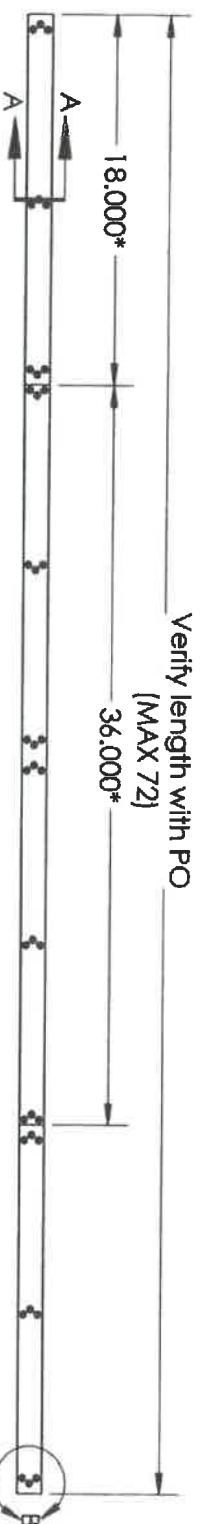
DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	DATE	REVISIONS	COMMENTS
12/16/21								

MATERIAL: EDGE | s |
DRAWN BY: CU
DATE: 12/16/21
JOB NUMBER: 481853
CUSTOMER: FLEETWOOD WINDOWS AND DOORS
JOB NAME: EDGE | s | Cert Testing

1 FLEETWOOD WAY
CORONA, CA 92879
www.fleetwoodusa.com

FLEETWOOD
WINDOWS & DOORS

SCALE: 1" = 1"
DRAWING NO.: (5)
SHEET: 5 OF 5



FENESTRATION TESTING LAB

REPORT NO:

721-073

DATE:

7/19/22

- Note:
1. Order to size, (72" Max)
 2. *QC to check dimensions.



1 FLEETWOOD WAY
CORONA, CA 92778
www.fleetwoodusa.com

TITLE:

Keel (SS)

REV

SIZE DWG. NO.
26467, Keel (SS)

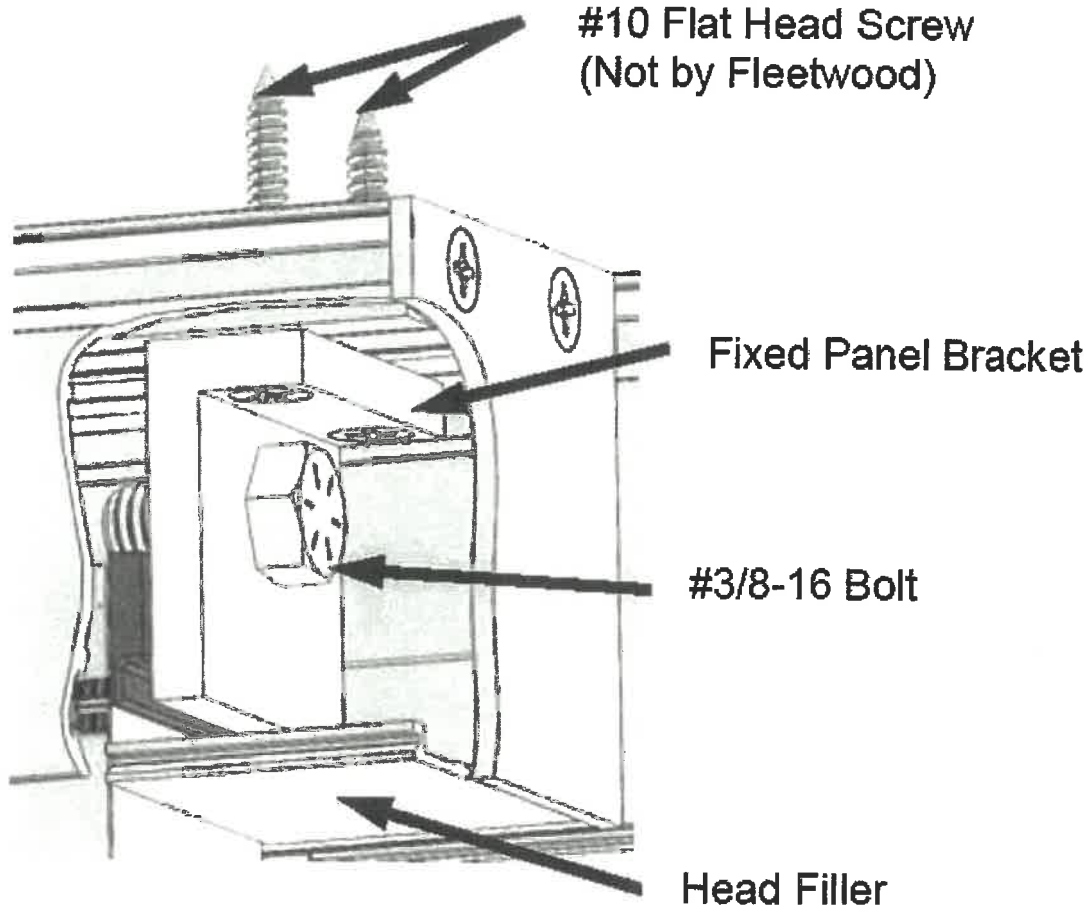
SCALE: 1:8 WEIGHT: SHEET 1 OF 1

PROPERTY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS
DRAWING IS THE SOLE PROPERTY OF
FLEETWOOD WINDOWS AND/OR ITS
REPRODUCTION IN PART OR AS A WHOLE
WITHOUT THE WRITTEN PERMISSION OF
FLEETWOOD WINDOWS AND/OR ITS
PROHIBITED.

SECTION A-A
SCALE 2 : 1

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
TWO PLACE DECIMAL ±.03
THREE PLACE DECIMAL ±.01
INTERPRET GEOMETRIC
TOLERANCING PER:
MATERIAL: SS
FINISH: _____
DO NOT SCALE DRAWING

NAME: N
DATE: 12/9/20
DRAWN: _____
CHECKED: _____
ENG APPR: _____
MFG APPR: _____
G.A. _____
COMMENTS: _____



FENESTRATION TESTING LAB
REPORT NO: T21-073
DATE: 7/19/22