

Testing Evaluation Laboratories, Inc.

2002 Wood Court Suite 1 – Plant City, FL 33563 Phone: 813-754-9887

ASTM E 1886-13a / ASTM E 1996-14a Missile Level "D" (Includes Wind Zone 4)

TEST REPORT SUMMARY

Test Report Issued To:

Fleetwood Windows and Doors 1 Fleetwood Way Corona, CA 92879

4400-T PIVOT DOOR

	Res	ults
Title of Test	Specimens 5a, 5b, 5c 1829 mm (72.00) x 3048 mm (120.00) – X	Specimen 6a 1829 mm (72.00) x 3048 mm (120.00) – X
Impact	Pass	Pass
Fatigue Load Cycling	+2873 /- 3112 Pa (+60.0/- 65.0 psf)	+2873 /- 3112 Pa (+60.0/- 65.0 psf)

Reference should be made to Report No. TEL 01993413 for complete test specimen description and data. For corresponding data regarding AAMA/WDMA/CSA 101/I.S./2/A440-17 reference should be made to Report No. TEL 01993412.

For Testing Evaluation Laboratories, Inc.

Climan K. Clinight Vivian K. Wright,

President

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Testing Evaluation Laboratories, Inc.

2002 Wood Court Suite 1 - Plant City, FL 33563 Phone: 813-754-9887

TEST RESULTS

Report No:

TEL 01993413

Test Dates: November 2-8, 2021

Report Date: December 14, 2021

Issued to:

Fleetwood Windows and Doors One Fleetwood Way Corona, CA 92879

Project Summary: Testing Evaluation Laboratories, Inc. (TEL) was contracted by Fleetwood Windows and Doors to perform tests on the 4400-T Pivot Door at TEL's Plant City, FL test facility.

Test specimen descriptions and results are reported herein.

Test Specifications:

The test specimens were evaluated in accordance with the following:

ASTM E 1886-13a / ASTM E 1996-14a Missile Level "D" (Includes Wind Zone 4)

Test Specimen Description:

Series / Model:

IAS Lab Certification Number: TL-299

4400-T Pivot Door

Type:

Impact Resistant Aluminum Pivot Doors

Overall Size:

1829 mm x 3048 mm (72.0" x 120.0") – X – Specimens 5a, 5b, 5c, 6a

Daylight Opening:

1568 mm x 2772 mm (61.75 x 109.125") - Specimens 5a, 5b, 5c, 6a

Glazing Detail:

(See attached drawing #L-9491, #L-9495 and #L-9496 for details)

Frame Material:

Aluminum

Finish:

Mill Finish

For Tested Elevation, Vertical Cross Sections, Horizontal Cross Sections, Components, Frame Anchoring, Glazing Detail and Bill of Materials See Attached Drawing #'s L-9495 and 9496.

Test Results: Specimen 5a 1829 mm x 3048 mm (72.0" x 120.0") – 4400-T Pivot Door

ASTM E1886 (13a) / ASTM E1996 (14a) - Large Missile Impact (2 x 4 Southern Yellow Pine)

	tioning erature:	Missile Weight: (Level D) Excluding Wind Zone 4		Missile	Length:	Muzzle (Distance:
24° C	(76.0° F)	4.03 Kg	(8 lbs 14 oz.)	2.40 m	7'-10"	5.23 m	17'2"

Impact Location	Results	(X) Measurement		(Y) Meas	urement	Speed	
	Results	mm	inches	mm	inches	m/s	fps
Center of Door Panel	Pass	889	35.00	1473	58.00	15.3	50.1
Lower Right Corner of Door Panel	Pass	1524	60.00	318	12.50	15.2	49.7

Observations:

Missile impacted @ X, Y coordinates fracturing exterior and interior lites with no rupture of interlayer

Positive			Pos		Number	Average		
% of			Pressur	Of	Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
20% to 50%	575	to	1436	12.0	to	30.0	3500	1.34
0% to 60%	0	to	1724	0.0	to	36.0	300	2.51
50% to 80%	1436	to	2298	30.0	to	48.0	600	1.45
30% to 100%	862	to	2873	18.0	to	60.0	100	2.38

Observations: Glass deflected 92 mm (3.63") from original plane @ 100% Positive Load

Negative			Neg		Number	Average		
% of			Pressur	Of	Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
30% to 100%	934	to	3112	19.5	to	65.0	50	2.09
50% to 80%	1556	to	2490	32.5	to	52.0	1050	1.30
0% to 60%	0	to	1436	0.0	to	39.0	50	1.71
20% to 50%	622	to	1556	13.0	to	32.5	3350	1.31

Observations: Glass deflected 108 mm (4.25") from original plane @ 100% Positive Load

Note: 1. Orientation of missile at impact was within +/- 5° of horizontal.

- 2. "X" measurement is from left edge of test specimen.
- 3. "Y" measurement is from bottom edge of test specimen.
- 4. At the completion of test there were no tears in the interlayer.

Test Results: Specimen 5b 1829 mm x 3048 mm (72.0" x 120.0") - 4400-T Pivot Door

ASTM E1886 (13a) / ASTM E1996 (14a) - Large Missile Impact (2 x 4 Southern Yellow Pine)

	tioning erature:	Missile Weight: (Level D) Excluding Wind Zone 4 4.03 Kg (8 lbs 14 oz.)		Missile I	Length:	Muzzle [Distance:
24° C	(76.0° F)	4.03 Kg	(8 lbs 14 oz.)	2.40 m	7'-10"	5.23 m	17'2"

Impact Location	Results	(X) Measurement		(Y) Meas	urement	Speed	
	Results	mm	inches	mm	inches	m/s	fps
Center of Door Panel	Pass	914	36.00	1524	60.00	15.2	50.0
Lower Right Corner of Door Panel	Pass	1511	59.50	305	12.00	15.2	49.7

Observations:

Missile impacted @ X, Y coordinates fracturing exterior and interior lites with no rupture of interlayer

Positive			Pos		Number	Average		
% of			Pressur	Of	Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
20% to 50%	575	to	1436	12.0	to	30.0	3500	1.60
0% to 60%	0	to	1724	0.0	to	36.0	300	1.79
50% to 80%	1436	to	2298	30.0	to	48.0	600	1.23
30% to 100%	862	to	2873	18.0	to	60.0	100	1.41

Observations: Glass deflected 99 mm (3.88") from original plane @ 100% Positive Load

Negative			Neg	Number	Average			
% of			Pressur	Of	Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
30% to 100%	934	to	3112	19.5	to	65.0	50	2.46
50% to 80%	1556	to	2490	32.5	to	52.0	1050	1.20
0% to 60%	0	to	1436	0.0	to	39.0	50	2.88
20% to 50%	622	to	1556	13.0	to	32.5	3350	1.34

Observations: Glass deflected 89 mm (3.50") from original plane @ 100% Positive Load

Note: 1. Orientation of missile at impact was within +/- 5° of horizontal.

- 2. "X" measurement is from left edge of test specimen.
- 3. "Y" measurement is from bottom edge of test specimen.
- 4. At the completion of test there were no tears in the interlayer.

Test Results: Specimen 5c 1829 mm x 3048 mm (72.0" x 120.0") – 4400-T Pivot Door

ASTM E1886 (13a) / ASTM E1996 (14a) - Large Missile Impact (2 x 4 Southern Yellow Pine)

	Conditioning (Level D) E		e Weight: ccluding Wind one 4	Missile I	Length:	Muzzie [Distance:
24° C	(76.0° F)	4.03 Kg	(8 lbs 14 oz.)	2.40 m	7'-10"	5.23 m	17'2"

Impact Location	Results	(X) Measurement		(Y) Meas	urement	Speed	
	Nesuits	mm	inches	mm	inches	m/s	fps
Center of Door Panel	Pass	914	36.00	1524	60.00	15.3	50.1
Upper Left Corner of Door Panel	Pass	305	12.00	2743	108.00	15.2	49.9

Observations:

Missile impacted @ X, Y coordinates fracturing exterior and interior lites with no rupture of interlayer

Positive % of			Pos Pressur	Number Of	Average Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
20% to 50%	575	to	1436	12.0	to	30.0	3500	1.38
0% to 60%	0	to	1724	0.0	to	36.0	300	2.30
50% to 80%	1436	to	2298	30.0	to	48.0	600	1.37
30% to 100%	862	to	2873	18.0	to	60.0	100	1.52

Observations: Glass deflected 89 mm (3.50") from original plane @ 100% Positive Load

Negative			Neg	ative		Number	Average	
% of			Pressur		Of	Cycle Time		
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
30% to 100%	934	to	3112	19.5	to	65.0	50	2.29
50% to 80%	1556	to	2490	32.5	to	52.0	1050	1.16
0% to 60%	0	to	1436	0.0	to	39.0	50	2.95
20% to 50%	622	to	1556	13.0	to	32.5	3350	1.50

Observations: Glass deflected 105 mm (4.13") from original plane @ 100% Positive Load

Note: 1. Orientation of missile at impact was within +/- 5° of horizontal.

- 2. "X" measurement is from left edge of test specimen.
- 3. "Y" measurement is from bottom edge of test specimen.
- 4. At the completion of test there were no tears in the interlayer.

Test Results: Specimen 6a 1829 mm x 3048 mm (72.0" x 120.0") – 4400-T Pivot Door

ASTM E1886 (13a) / ASTM E1996 (14a) - Large Missile Impact (2 x 4 Southern Yellow Pine)

		tioning erature:	(Level D) Ex	e Weight: ccluding Wind one 4	Missile I	Length:	Muzzle [Distance:
Г	24° C	(76.0° F)	4.03 Kg	(8 lbs 14 oz.)	2.40 m	7'-10"	5.23 m	17'2"

Import Location	Results	(X) Meas	urement	(Y) Meas	urement Speed		
Impact Location	Results	mm	inches	mm	inches	m/s	fps
Center of Door Panel	Pass	921	36.25	1549	61.00	15.2	49.8
Lower Right Corner of Door Panel	Pass	1537	60.50	298	11.75	15.2	50.0

Observations:

Missile impacted @ X, Y coordinates fracturing exterior and interior lites with no rupture of interlayer

Positive			Pos	itive		Number	Average	
% of		Pressure Range						Cycle Time
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
20% to 50%	575	to	1436	12.0	to	30.0	3500	1.45
0% to 60%	0	to	1724	0.0	to	36.0	300	2.45
50% to 80%	1436	to	2298	30.0	to	48.0	600	1.61
30% to 100%	862	to	2873	18.0	to	60.0	100	1.85

Observations: Glass deflected 99 mm (3.88") from original plane @ 100% Positive Load

Negative			Neg	ative		Number	Average	
% of			Pressur	Of	Cycle Time			
Test Load	Pa	to	Pa	(psf)	to	(psf)	Cycles	(Seconds)
30% to 100%	934	to	3112	19.5	to	65.0	50	2.00
50% to 80%	1556	to	2490	32.5	to	52.0	1050	1.15
0% to 60%	0	to	1436	0.0	to	39.0	50	2.25
20% to 50%	622	to	1556	13.0	to	32.5	3350	1.32

Observations: Glass deflected 121 mm (4.75") from original plane @ 100% Positive Load

Note: 1. Orientation of missile at impact was within +/- 5° of horizontal.

- 2. "X" measurement is from left edge of test specimen.
- 3. "Y" measurement is from bottom edge of test specimen.
- 4. At the completion of test there were no tears in the interlayer.

General Note:

Tape and film were used to seal against air leakage during fatigue loading/cycling. In our opinion, the tape and film did not influence the results of the tests.

Drawing Reference

The test specimen drawings have been reviewed by TEL and are representative of the test specimens reported herein.

Conditions, Terms, and General Notes Regarding These Tests

The product tested <u>Has Been</u> compared to the detailed drawing, bill of materials and fabrication information supplied by the client so named herein. Our analysis, which includes dimensional and component description comparisons, indicate the tested product and engineering information supplied by the client <u>"Are Equivalent"</u>.

The report and representative samples will be retained for four years from the date of initial test.

These test results were obtained by employing all requirements of the designated test methods with no Deviations unless explicitly noted in test report. The test results and specimen supplied for testing are in compliance with the reference.

The test results are specific to the product tested by this laboratory and of the sample supplied by the client named herein, and they relate to no other product either manufactured by the client, a fabricator of the client or of installed field performance.

This test report does not constitute certification of this product, but only that the above test results were obtained using the designated test methods and they indicate compliance with the performance requirements (paragraphs as listed) of the above referenced specifications.

Testing Evaluation Laboratories, Inc. makes no opinions or endorsements regarding this product and its performance. This report may not be reproduced or quoted in partial form without the expressed written approval of Testing Evaluation Laboratories, Inc.

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Limitation of liability: Due diligence was used in performing the tests and reporting the results. By acceptance of this report, this client agrees to hold harmless and indemnify Testing Evaluation Laboratories, Inc., its employees, sub-contractors and officers and owners against all claims and demands of any kind whatsoever, which arise out of or in any manner connected with the performance of work referred to herein.

Testing Evaluation Laboratories, Inc.

Climan & Clright Vivian K. Wright,

President

Revision Log

Rev No.	Date	Page(s)	Revision(s)	
0	12/14/2021	NA	Original Report Issue	

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9	Components						
10	Bill of Materials						

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL#_01993413
Date_12/14/2021 Verified by VKW

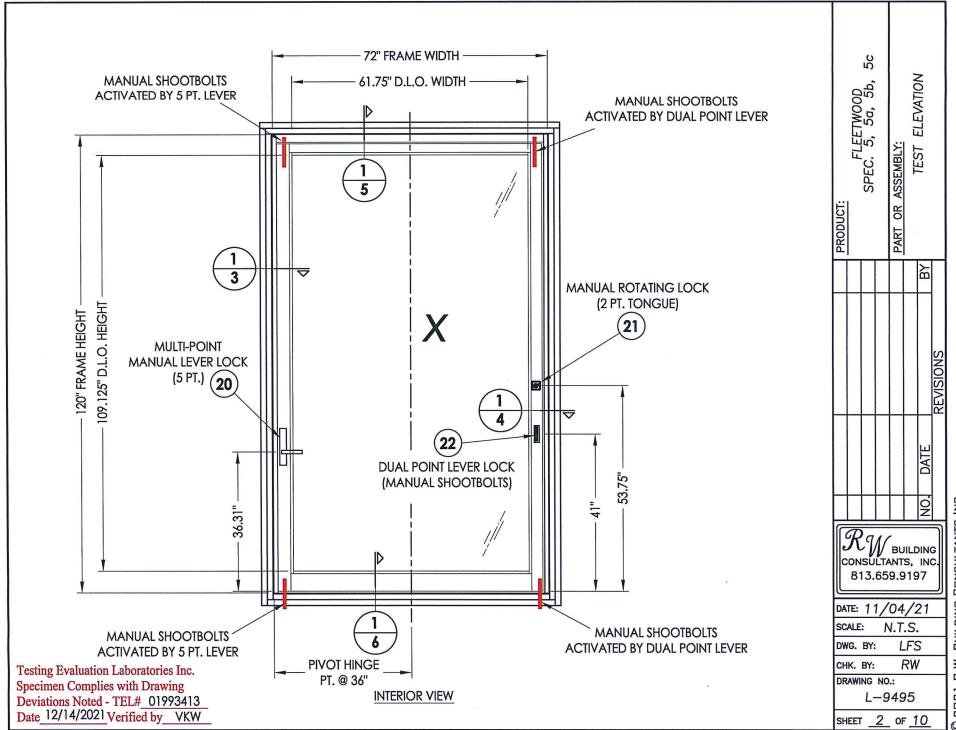
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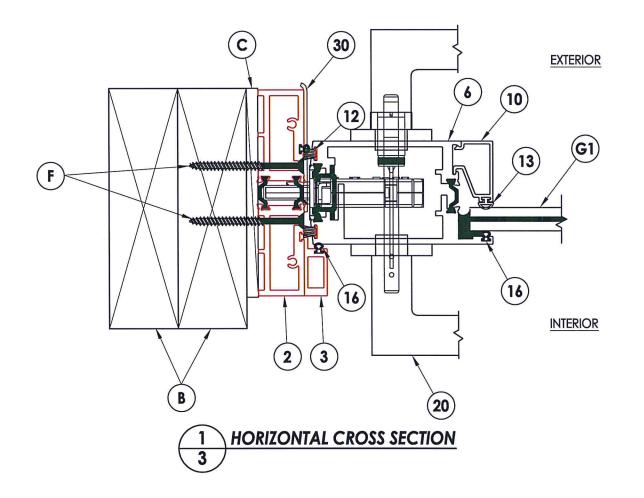
RW BUILDING CONSULTANTS, INC. 813.659.9197

DATE: 11/04/21
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.:
L—9495

SHEET 1 OF 10

2021 R.W. BUILDING CONSULTANTS INC





813.659.9197 DATE: 11/04/21 SCALE: N.T.S. DWG. BY: LFS RW CHK. BY: DRAWING NO .: L-9495 SHEET <u>3</u> OF <u>10</u>

Testing Evaluation Laboratories Inc. Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW

BUILDING CONSULTANTS INC. $\mathcal{R}_{\mathbb{W}_{\mathsf{BUILDING}}}$

SECTION

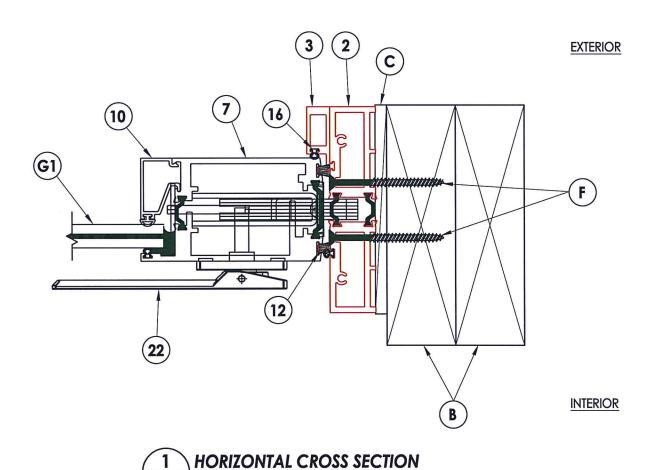
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OR ASSEMBLY: HORIZONTAL

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FLEETWOOD SPEC. 5, 5a, 5b,



PART OR ASSEMBLY: PRODUCT: SCALE: DWG. BY:

Testing Evaluation Laboratories Inc. Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW RW BUILDING CONSULTANTS, INC. 813.659.9197

R.W. BUILDING CONSULTANTS INC.

SECTION

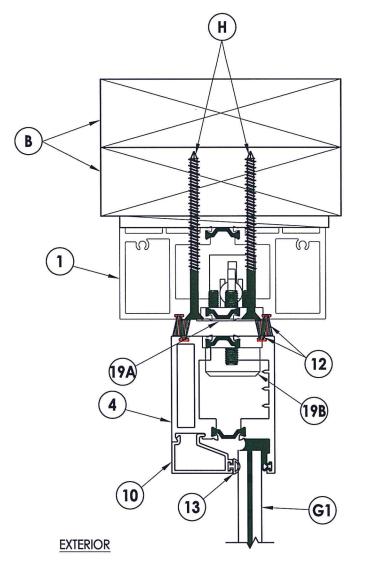
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HORIZONTAL

B

DATE: 11/04/21 N.T.S. LFS RW CHK. BY: DRAWING NO.: L-9495

SHEET 4 OF 10



INTERIOR

1 VERTICAL CROSS SECTION

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW

PRODUCT:		SPEC. 5, 5a, 5b, 5c		PART OR ASSEMBLY:		VERTICAL CROSS SECTION	
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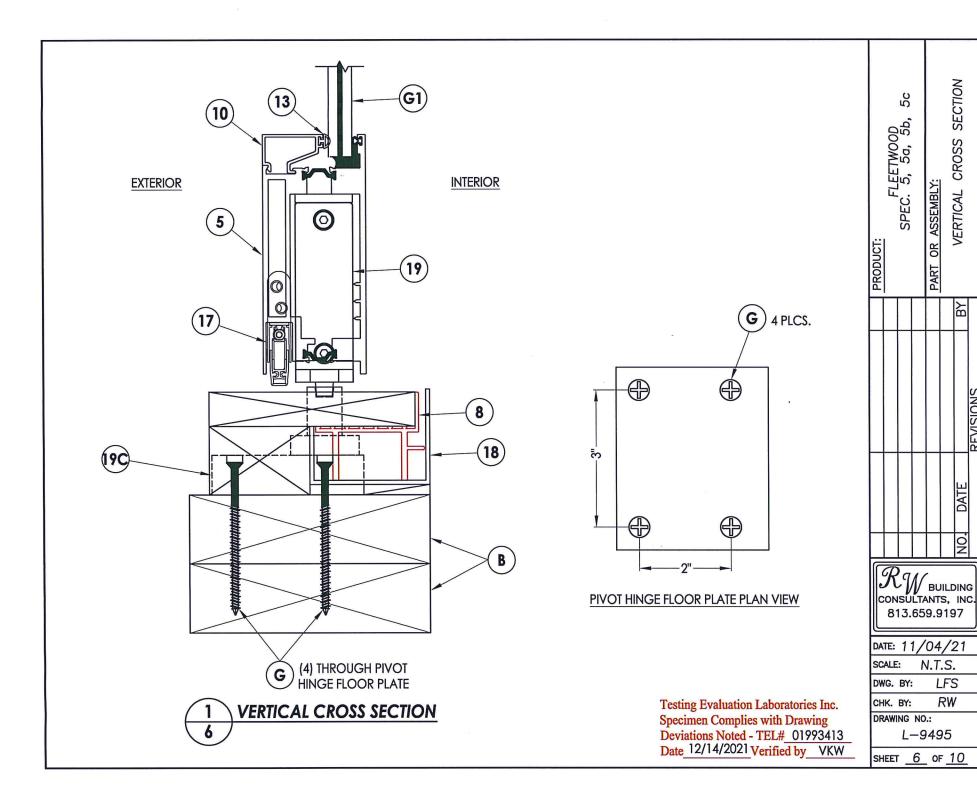
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DATE: 11/04/21
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DWG. BY: LFS
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DRAWING NO.:

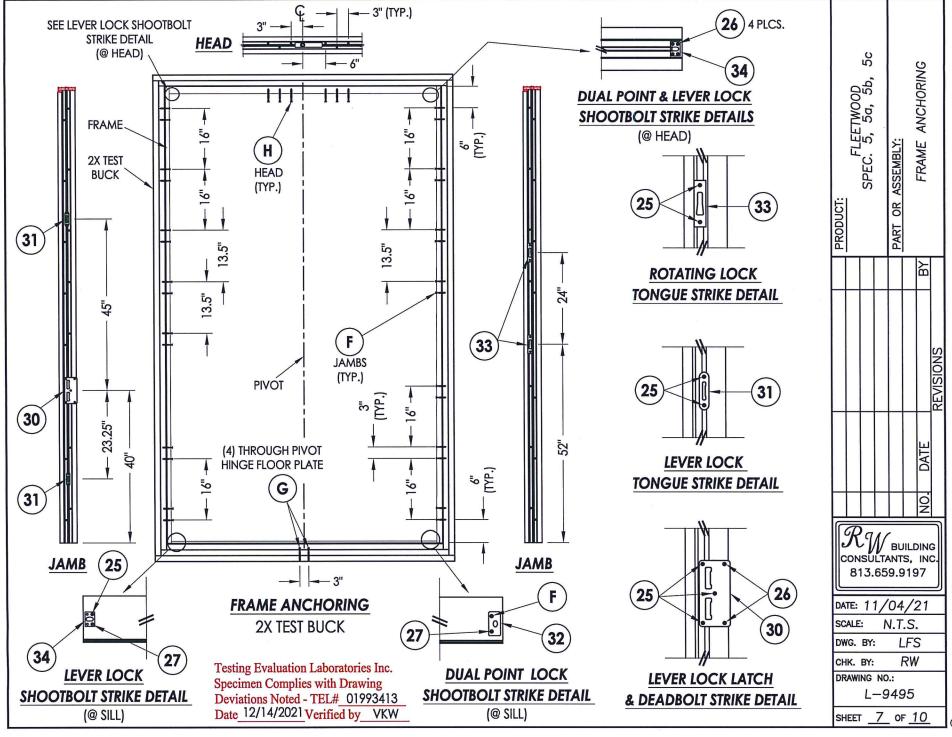
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SHEET <u>5</u> OF <u>10</u>

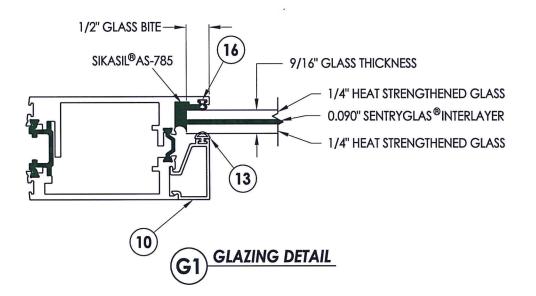


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5cGLAZING DETAILS FLEETWOOD SPEC. 5, 5a, 5b, PART OR ASSEMBLY: PRODUCT:

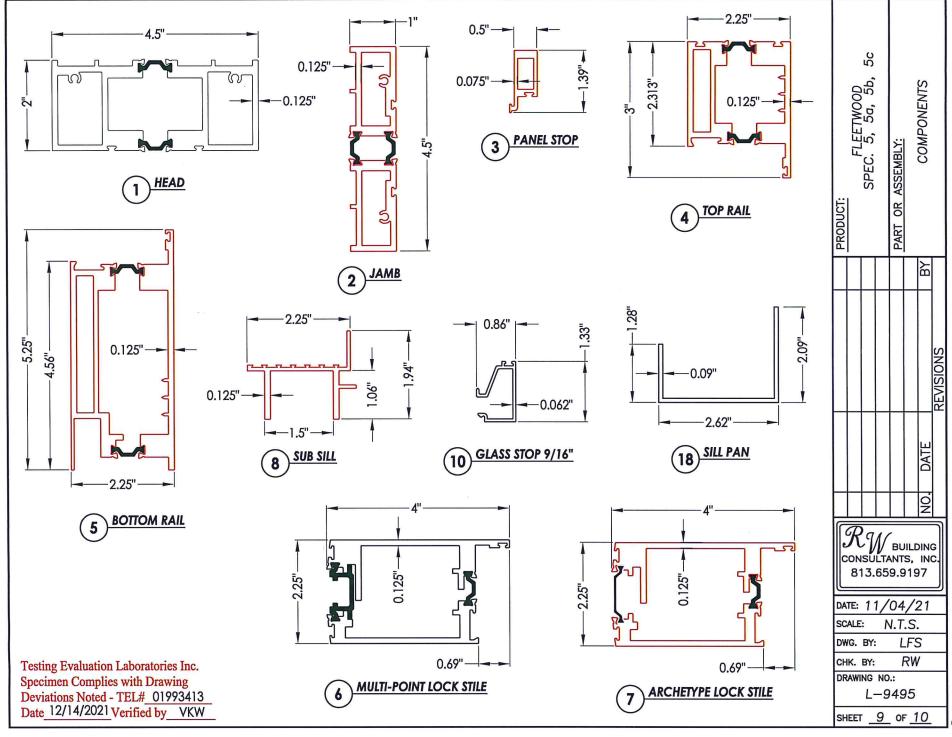
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DATE: 11/04/21
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.:
L-9495

SHEET <u>8</u> OF <u>10</u>

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW

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	BILL OF MATERIALS	
М	DESCRIPTION	MATERIAL
В	2X TEST BUCK (SG >= 0.55)	WOOD
С	1/4" MAX. SHIM SPACE	-
F	#10 X 2-1/2" PFH WOOD SCREW	STEEL
G	1/4" Ø X 3-1/4" PFH ITW BUILDEX CONCRETE SCREW	STEEL
Н	#10 X 3-1/2" PFH WOOD SCREW	STEEL
1	HEAD	6063-T6 ALUM
2	JAMB	6063-T6 ALUM
3	PANEL STOP	6063-T6 ALUM
4	TOP RAIL	6063-T6 ALUM
5	BOTTOM RAIL	6063-T6 ALUM
6	MULTI-POINT LOCK STILE	6063-T6 ALUM
7	ARCHETYPE LOCK STILE	6063-T6 ALUM
8	SUB SILL	6063-T6 ALUM
10	GLASS STOP (9/16")	6063-T6 ALUM
12	FIN SEAL MOHAIR - AMESBURY	MOHAIR
13	LARGE BULB VINYL (EPDM 70 DUROMETER) - TREMCO	VINYL
16	MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO	VINYL
17	DROP DOWN SEAL	-
18	SILL PAN	-
19	FRITSJURGENS SYSTEM M PIVOT HINGE	-
19A	PIVOT HINGE CEILING PLATE	-
19B	PIVOT HINGE TOP PIVOT	-
19C	PIVOT HINGE FLOOR PLATE	-
20	MULTI-POINT MANUAL LEVER LOCK (5 PT.)	-
21	MANUAL ROTATING LOCK (2 PT. TONGUE)	-
22	DUAL POINT LEVER ACTIVATED MANUAL LOCK (2 PT. SHOOTBOLTS)	-
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL
26	#8 X 1/2" PFH SMS	STEEL
27	#8 X 1" PFH SMS	STEEL
30	LEVER LOCK LATCH & DEADBOLT STRIKE PLATE	STEEL
31	LEVER LOCK TONGUE STRIKE PLATE	STEEL
32	DUAL POINT SHOOTBOLT STRIKE PLATE (@ SILL)	STEEL
33	ROTATING LOCK TONGUE STRIKE PLATE	STEEL
34	DUAL POINT & LEVER LOCK SHOOTBOLT STRIKE PLATE	STEEL

	PRODUCT:		SPEC. 5, 5a, 5b, 5c		PART OR ASSEMBLY:		BILL OF MATERIALS		
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Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW

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DATE: 11/04/21
SCALE: N.T.S.
DWG. BY: LFS
CHK. BY: RW
DRAWING NO.:
L-9496
SHEET 1 OF 10

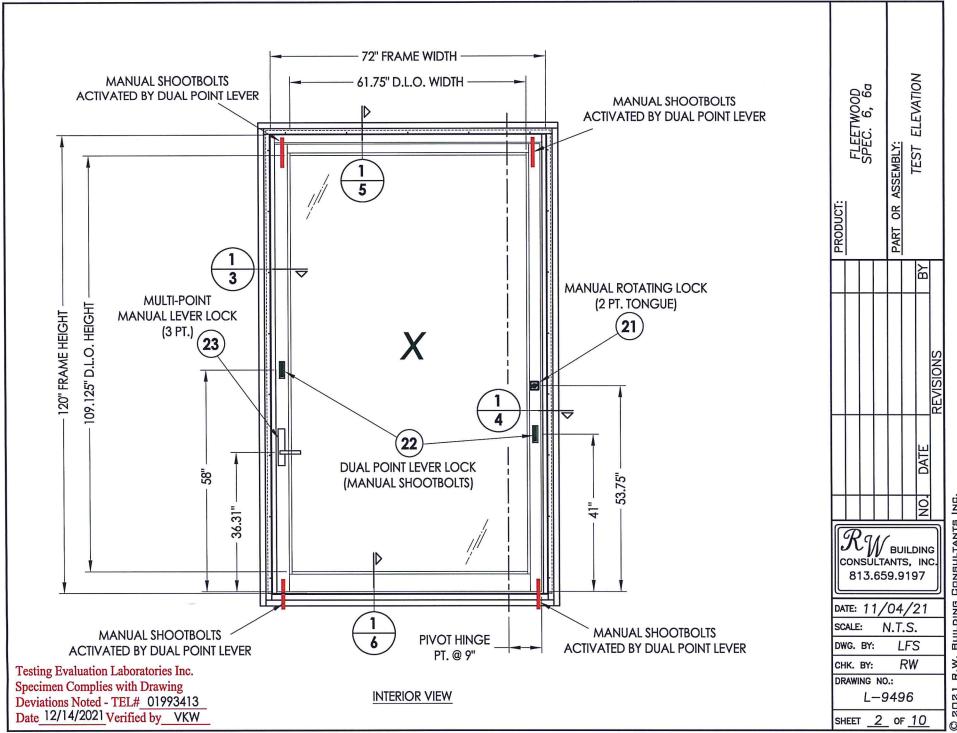
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CONTENTS

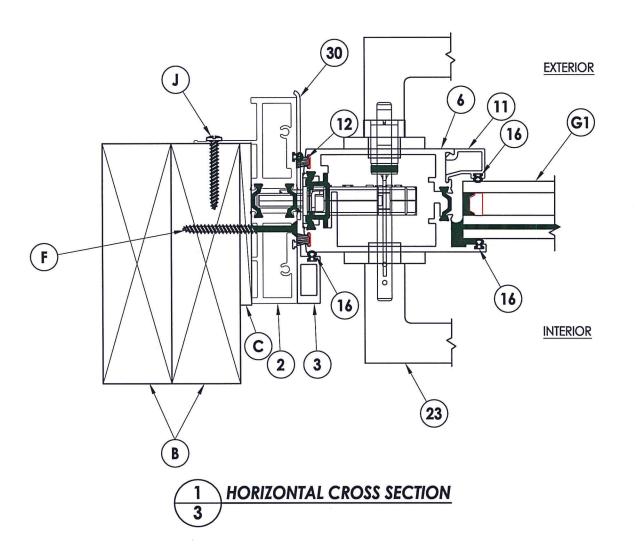
TABLE OF

PART OR ASSEMBLY:

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL#_01993413
Date_12/14/2021 Verified by VKW



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PART OR ASSEMBLY: RW BUILDING CONSULTANTS, INC. 813.659.9197 DATE: 11/04/21 SCALE: N.T.S. DWG. BY:

SECTION

CROSS

HORIZONTAL

Testing Evaluation Laboratories Inc. Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW BUILDING

DATE

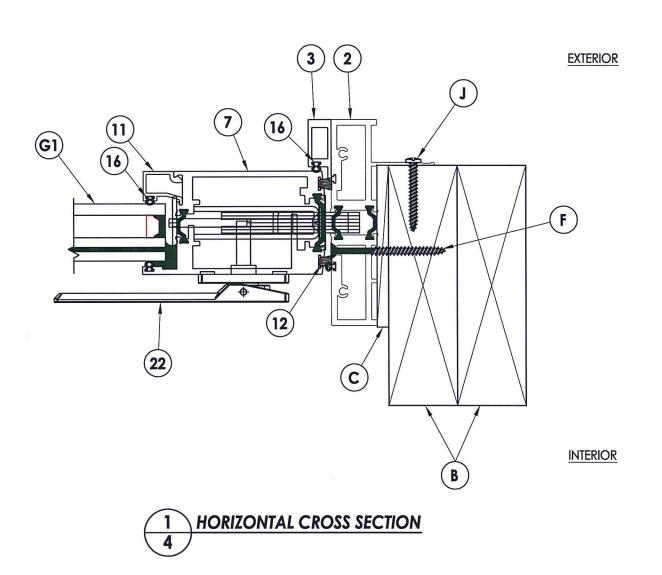
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L-9496 SHEET <u>3</u> OF <u>10</u>



SECTION CROSS HORIZONTAL PART OR ASSEMBLY: 813.659.9197

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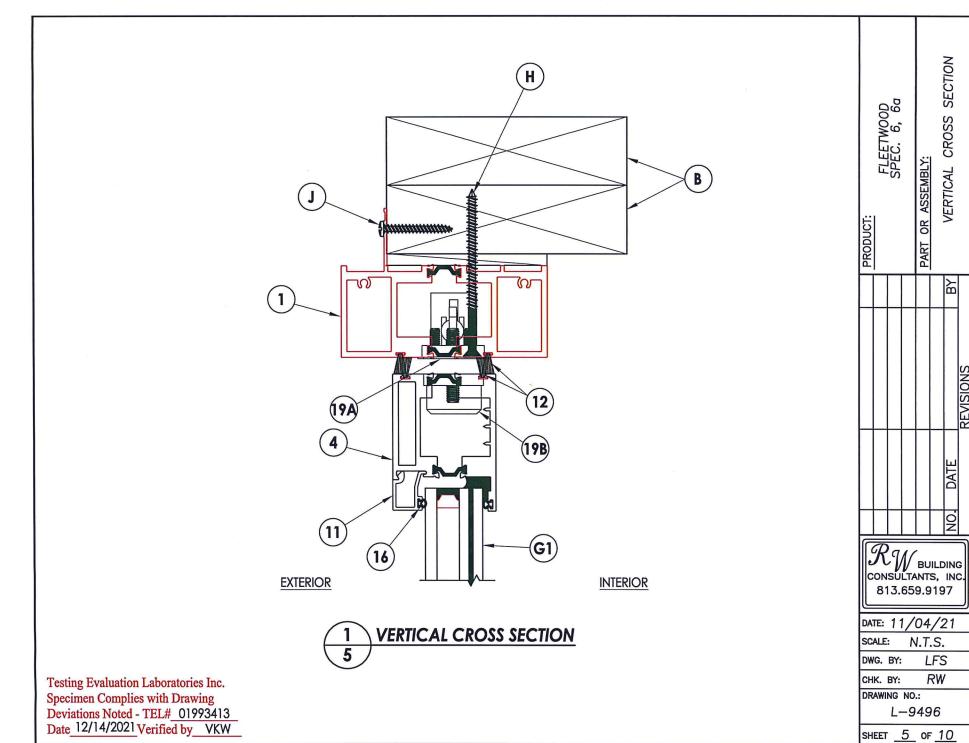
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DATE: 11/04/21 SCALE: N.T.S. DWG. BY: LFS RW CHK. BY: DRAWING NO.:

L-9496

SHEET <u>4</u> OF <u>10</u>

Testing Evaluation Laboratories Inc. Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW



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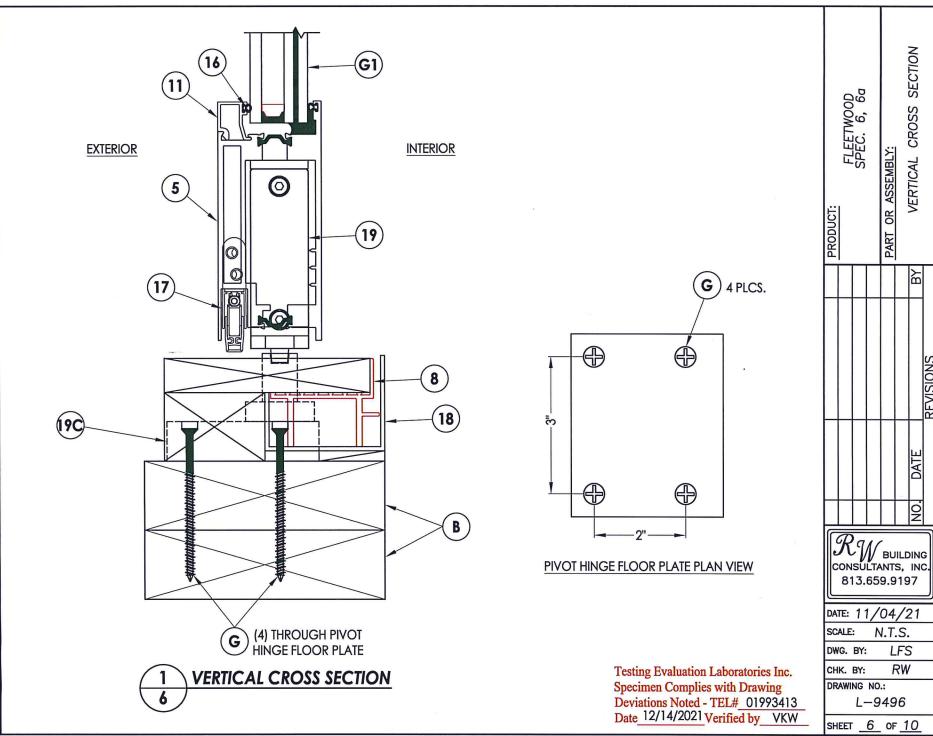
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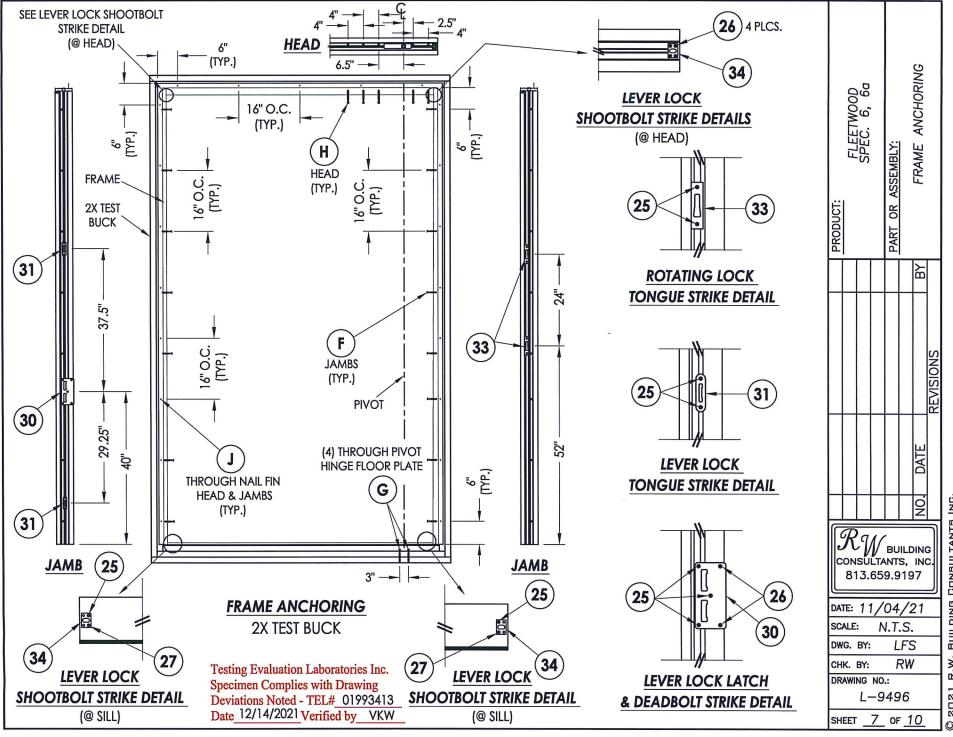
BUILDING

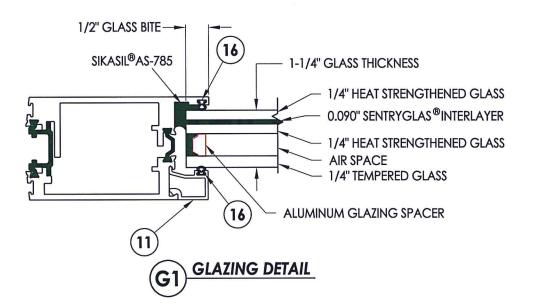
DATE: 11/04/21 N.T.S.

LFS RW

L-9496

SHEET <u>6</u> OF <u>10</u>





GLAZING DETAILS PART OR ASSEMBLY: B

RW BUILDING CONSULTANTS, INC. 813.659.9197

BUILDING CONSULTANTS INC

Ν.Υ

DATE: 11/04/21 SCALE: N.T.S. DWG. BY: LFS

RW

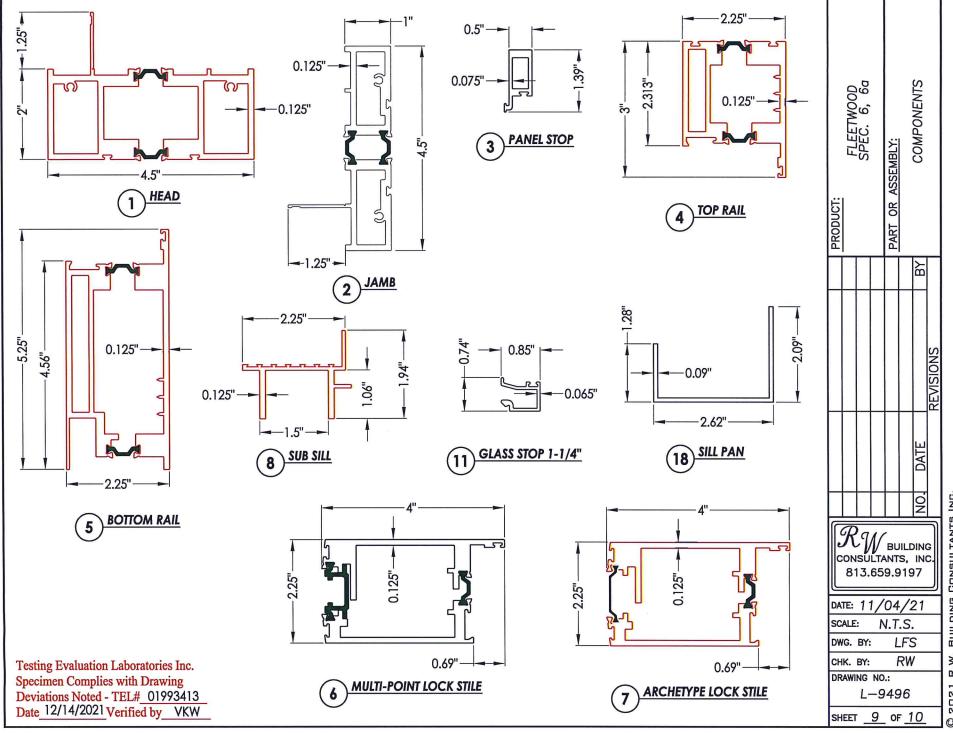
DWG. BY:

CHK. BY:

DRAWING NO.: L-9496

SHEET <u>8</u> OF <u>10</u>

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01993413
Date 12/14/2021 Verified by VKW



BUILDING Ν.Κ.

BILL OF MATERIALS									
M	DESCRIPTION	MATERIAL							
В	2X TEST BUCK (SG >= 0.55)	WOOD							
С	1/4" MAX. SHIM SPACE	-							
F	#10 X 2-1/2" PFH WOOD SCREW	STEEL							
G	1/4" Ø X 3-1/4" PFH ITW BUILDEX CONCRETE SCREW	STEEL							
Н	#10 X 3-1/2" PFH WOOD SCREW	STEEL							
J	#8 X 1-1/2" PPH SMS	STEEL							
1	HEAD	6063-T6 ALUM							
2	JAMB	6063-T6 ALUM							
3	PANEL STOP	6063-T6 ALUM							
4	TOP RAIL	6063-T6 ALUM							
5	BOTTOM RAIL	6063-T6 ALUM							
6	MULTI-POINT LOCK STILE	6063-T6 ALUM							
7	ARCHETYPE LOCK STILE	6063-T6 ALUM							
8	SUB SILL	6063-T6 ALUM							
11	GLASS STOP (1-1/4")	6063-T6 ALUM							
12	FIN SEAL MOHAIR - AMESBURY	MOHAIR							
16	MINI BULB VINYL (EPDM 70 DUROMETER) - TREMCO	VINYL							
17	DROP DOWN SEAL	-							
18	SILL PAN	-							
19	FRITSJURGENS SYSTEM M PIVOT HINGE	-							
19A	PIVOT HINGE CEILING PLATE	-							
19B	PIVOT HINGE TOP PIVOT	-							
19C	PIVOT HINGE FLOOR PLATE	-							
21	MANUAL ROTATING LOCK (2 PT. TONGUE)	-							
22	DUAL POINT LEVER ACTIVATED MANUAL LOCK (2 PT. SHOOTBOLTS)	-							
23	MULTI-POINT MANUAL LEVER LOCK (3 PT.)	-							
25	#8 X 2-1/2" PFH WOOD SCREW	STEEL							
26	#8 X 1/2" PFH SMS	STEEL							
27	#8 X 1" PFH SMS	STEEL							
30	LEVER LOCK LATCH & DEADBOLT STRIKE PLATE	STEEL							
31	LEVER LOCK TONGUE STRIKE PLATE	STEEL							
33	ROTATING LOCK TONGUE STRIKE PLATE	STEEL							
34	DUAL POINT SHOOTBOLT STRIKE PLATE	STEEL							

	PRODUCT: FLEETWOOD SPEC. 6, 6a			PART OR ASSEMBLY: BILL OF MATERIALS					
							BY		
							O. DATE	REVISIONS	
		BUILDING CONSULTANTS INC.							
	DATE: 11/04/21 SCALE: N.T.S. DWG. BY: LFS CHK. BY: RW								
12									
	DRAWING NO.: L—9496								120
	SH	EET		10	OF	<u> 1</u>	0		0 20

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