

Testing Evaluation Laboratories, Inc.

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

AAMA/WDMA/CSA/101/I.S.2/A440-08 AAMA/WDMA/CSA/101/I.S.2/A440-11 (A440S1-09)

TEST REPORT SUMMARY

Test Report Issued To:

Fleetwood Windows and Doors 1 Fleetwood Way Corona, CA 92879

3900-T Aluminum Side Hinged Door - Inswing Impact Rated

Title	Summary of Results				
	Specimen 2	Specimen 2 Alt			
Primary Product Designator	Class LC -PG50 5105 x 3048	Class LC -PG55 5105 x 3048			
	(201 x 120) – Type LW SHD	(201 x 120) – Type LW SHD			
Design Pressure	+ 2394 Pa / - 2633 Pa	+ 2633 Pa /- 3112 Pa			
	(+ 50.0 psf / - 55.0 psf)	(+ 55.0 psf / - 65.0 psf)			
Air Infiltration	0.56 L/s/m ² (0.115 scfm/ft ²)	See Specimen 2 for these results			
	@ 75 Pa (1.57 psf)				
Air Infiltration/Exfiltration (A440S1-09)	Level A2: < 1.50 L/s•m²	See Specimen 2 for these results			
Water Resistance (Per ASTM E547-00)	0 Pa (0.0 psf)	See Specimen 2 for these results			
Structural Test Pressure	+ 3591 Pa /- 3950 Pa	+ 3950 Pa /- 4668 Pa			
	(+ 75.0 psf / - 82.5 psf)	(+ 82.5 psf / - 97.5 psf)			
Forced Entry	No Entry	No Entry			

Reference should be made to Report No. TEL 01991317 for complete test specimen description and data.

For Testing Evaluation Laboratories, Inc.

Vivian K. Wright

President



Testing Evaluation Laboratories, Inc.

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

AAMA/WDMA/CSA 101/I.S.2/A440-08 and A440-11 (A440S1-09)

Issued to:

Fleetwood Windows and Doors 1 Fleetwood Way Corona, CA 92879

IAS Lab Certification Number TL-299

Report Number:

TEL 01991317

Test Date:

March 31, 2015

Report Date:

June 26, 2015

Project Summary: Testing Evaluation Laboratories, Inc. (TEL) was contracted to perform tests on a Fleetwood Windows and Doors 3900-T Aluminum Side Hinged Door at TEL's Plant City, FL test facility. The sample tested successfully met the performance requirements as follows:

Class LC-PG50 5105 x 3048 (201 x 120) - Type LW SHD - Specimen 2

Class LC-PG55 5108 x 3048 (201 x 120) - Type LW SHD - Specimen 2-Alt

Test Specifications: The test specimen was evaluated in accordance with the following: AAMA/WDMA/CSA/101/I.S.2/A440-08 and A440-11 (A440S1-09)
Standard/Specification for Windows, Doors and Unit Skylights

Series / Model:

3900-T Aluminum Doors

Type:

Impact Rated Inswing Glazed Doors w/Sidelites (OXXO)

Overall Size:

5105 mm (201.00") x 3048 mm (120.00")

Daylight Opening:

737 mm (29.00") x 2743 mm (108.00") - Doors - Spec 2 & 2 ALT

1194 mm (47.00") x 2743 mm (108.00") - Sash Sidelite- Spec 2 & 2 ALT

For complete product description, see attached drawing L-7348 and L-7348A for details.

The test results are tabulated as follows:

<u>Paragraph</u>	Title of Test / Test Method	Results	Allowed
5.3.1.2.1	Force to Latch – Multipoint Locking Device	78N (17.5 lbf)	Report Only
5.3.2.1	Air Leakage Resistance (Infiltration) ASTM E283 Test conducted @ 75 Pa (1.57 psf) (Standard Weatherstrip)	0.56 L/s/m² 0.115 scfm/ft²	1.50 L/s/m² 0.3 scfm/ft²
5.3.3.1	Limited Water Penetration Resistance ASTM E547 & ASTM E333	L	
	Test conducted @ 0 Pa (0.0 psf) (Standard Weatherstrip)	No Leakage	No Leakage
	Test conducted @ 108 Pa (2.25 psf) (Std. Weatherstrip w/ Adjustments)	No Leakage	No Leakage
	Test conducted @ 180 Pa (3.75 psf) (Std. Weatherstrip w/ Drip Cap)	No Leakage	No Leakage
	Test conducted @ 108 Pa (2.25 psf) (Sill Bulb Weatherstrip)	No Leakage	No Leakage
	Test conducted @ 180 Pa (3.75 psf) (Sill Bulb w/Drip Cap)	No Leakage	No Leakage
5.3.4.2	Uniform Load Deflection Test @ Design Pressure ASTM E330		(See Note #1)
5.3.4.3	Uniform Load Structural Test @ 150% of Design Pressure ASTM	E330	(See Note #1)
Note #1:	(Client opted to start at a pressure higher than the minimum red results are listed under "Optional Performance".)	guired. Those	
5.3.5	Forced Entry Resistance AAMA 1304		
	1330 N (300 lbf) point load		
	Top lock stile corner	No Entry	No Entry
	Bottom lock stile corner	No Entry	No Entry
	Above lock	No Entry	No Entry

Test Results

Spec. 2 5105 mm (201.00") x 3048 mm (120.00") - Inswing Glazed Doors w/Sidelites (OXXO) Cont:

Optional Performance

5.3.4.2	Uniform Load Deflection Test @ Design Pressure ASTM E330					
Load Range	Time (Sec)		Loc	Deflection mm (inches)	Set mm (inches)	Allowable mm (inches)
Half Test Positive	10	1197 (25.00)				
Test Positive	10	2394 (50.00)	1	9.550 (0.376)	NA	(See Note #2)
Half Test Negativ	e 10	1317 (27.50)				
Test Negative	10	2633 (55.00)	1	12.725 (0.501)	NA	(See Note #2)

Note #2:

The deflections reported are not limited by AAMA/WDMA/CSA101/I.S.2/ A440-08 and A440-11(A440S1-09) for this product designation. The deflection data is recorded in this report for special code compliance and information only

5.3.4.3	Uniform Load Str	Uniform Load Structural Test @ 150% of Design Pressure ASTN				
	Time	Load	Deflection	So		

Load Range	Time (See)	Load	Loc	Deflection	Set	Allowable
	(Sec)	Pa (psf)		mm (inches)	mm (inches)	mm (inches)
Half Proof Positive	10	1796 (37.50)				
Proof Positive	10	3591 (75.00)	1	13.995 (0.551)	0.559 (0.022)	12.192 (0.480)
			2	31.064 (1.223)	1.041 (0.041)	11.887 (0.468)
Half Proof Negative	10	1975 (41.25)				
Proof Negative	10	3950 (82.50)	1	16.281 (0.641)	1.753 (0.069)	12.192 (0.480)
			2	31.013 (1.221)	1.549 (0.061)	11.887 (0.468)

Note #3:

Deflection / Set for Locations 1 measured at center of mullion.

Deflection/Set for Location 2 measured at center of door panel at latch stile.

<u>Paragraph</u>	Title of Test / Test Method	Results	<u>Allowed</u>
5.3.2.1	Air Leakage Resistance (Exfiltration) ASTM E283	0.27 L/s/m^2	
	Test conducted @ 75 Pa (1.57 psf) (Standard Weatherstrip)	0.054 scfm/ft^2	0.3 scfm/ft ²
	Air Leakage Resistance (Infiltration) ASTM E283	0.47 L/s/m ²	
	Test conducted @ 75 Pa (1.57 psf) (Bulb Weatherstrip)	0.093 scfm/ft ²	0.3 scfm/ft ²
	Air Leakage Resistance (Exfiltration) ASTM E283	0.24 L/s/m ²	
	Test conducted @ 75 Pa (1.57 psf) (Bulb Weatherstrip)	0.048 scfm/ft ²	0.3 scfm/ft ²

Test Results:

Specimen 2- 5105 mm (201.00") x 3048 mm (120.00") - Inswing Glazed Doors w/Sidelites (OXXO) ALT

The test results are tabulated as follows:

<u>Paragraph</u>	Title of Test / Test Method	Results	Allowed
5.3.1.2.1	Force to Latch – Multipoint Locking Device	See Specimen	2 for Results
5.3.2.1	Air Leakage Resistance (Infiltration) ASTM E283 Test conducted @ 75 Pa (1.57 psf)	See Specimer	n 2 for Results
5.3.3.1	Limited Water Penetration Resistance ASTM E547 & ASTM E331	See Specimei	n 2 for Results
5.3.4.2	Uniform Load Deflection Test @ Design Pressure ASTM E330		(See Note #1)
5.3.4.3	Uniform Load Structural Test @ 150% of Design Pressure ASTM Es	330	(See Note #1)
Note #1:	(Client opted to start at a pressure higher than the minimum requiresults are listed under "Optional Performance".)	ired. Those	
5.3.5	Forced Entry Resistance AAMA 1304	See Specime	en 2 for Results

Test Results

Spec. 2 ALT 5105 mm (201.00") x 3048 mm (120.00") - Inswing Glazed Doors w/Sidelites (OXXO) Cont:

Optional Performance

5.3.4.2 Uniform Load Deflection Test @ Design Pressure ASTM E330

Load Range	Time (Sec)	Load Pa (psf)	Loc	Deflection mm (inches)	Set mm (inches)	Allowable mm (inches)
Half Test Positive	10	1317 (27.50)				
Test Positive	10	2633 (55.00)	1	9.144 (0.360)	NA	(See Note #2)
Half Test Negative	10	1556 (32.50)				
Test Negative	10	3112 (65.00)	1	14.656 (0.577)	NA	(See Note #2)

Note #2:

The deflections reported are not limited by AAMA/WDMA/CSA101/I.S.2/ A440-08 and A440-11(A440S1-09) for this product designation. The deflection data is recorded in this report for special code compliance and information only

5.3.4.3 Uniform Load Structural Test @ 150% of Design Pressure ASTM E330

Load Range	Time (Sec)	Load Pa (psf)	Loc	Deflection mm (inches)	Set mm (inches)	Allowable mm (inches)
Half Proof Positive	10	2155 (41.25)				
Proof Positive	10	4309 (82.50)	1	12.675 (0.499)	1.118 (0.044)	12.192 (0.480)
			2	25.578 (1.007)	1.245 (0.049)	11.887 (0.468)
Half Proof Negative	10	2334 (48.75)				
Proof Negative	10	4668 (97.50)	1	16.281 (0.641)	0.559 (0.022)	12.192 (0.480)
			2	34.188 (1.346)	0.203 (0.008)	11.887 (0.468)

Note #3:

Deflection / Set for Location 1 measured at center of mullion.

Deflection/Set for Location 2 measured at center of door panel at latch stile.

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 "Are Equivalent".

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 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.

Testing Evaluation Laboratories, Inc.'s letter, reports, its name or insignia or mark are for the exclusive use of the client so named herein and any other use is strictly prohibited. The report, letters and the name of Testing Evaluation Laboratories, Inc., its seal or mark shall not be used in any circumstance to the general public or in any advertising.

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.

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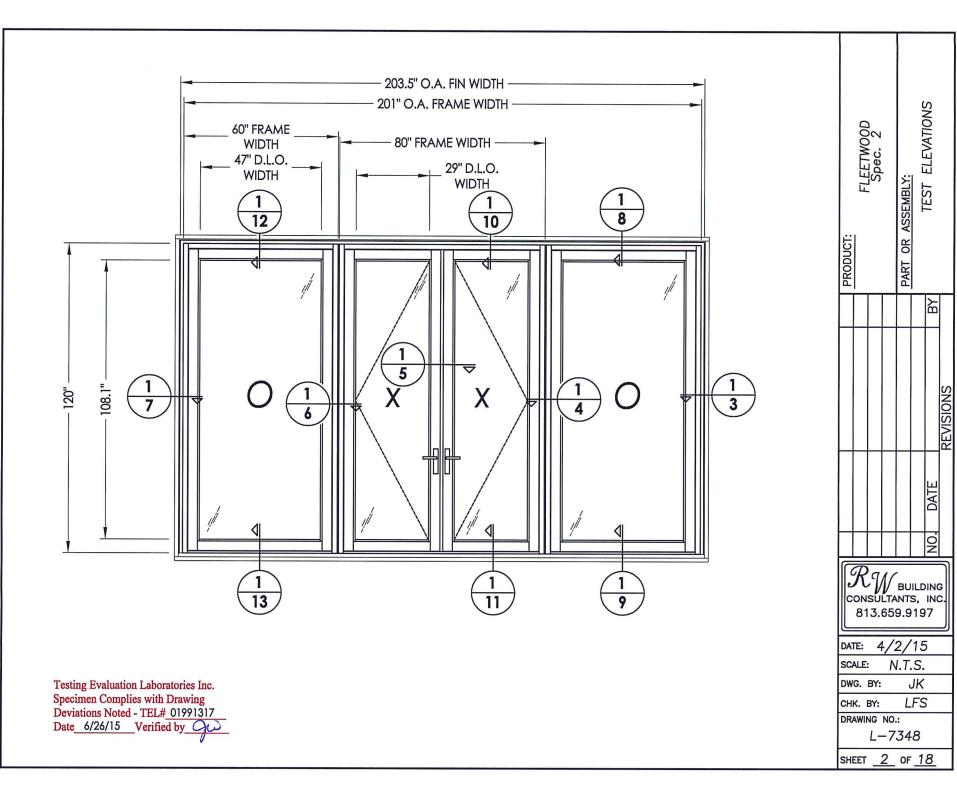
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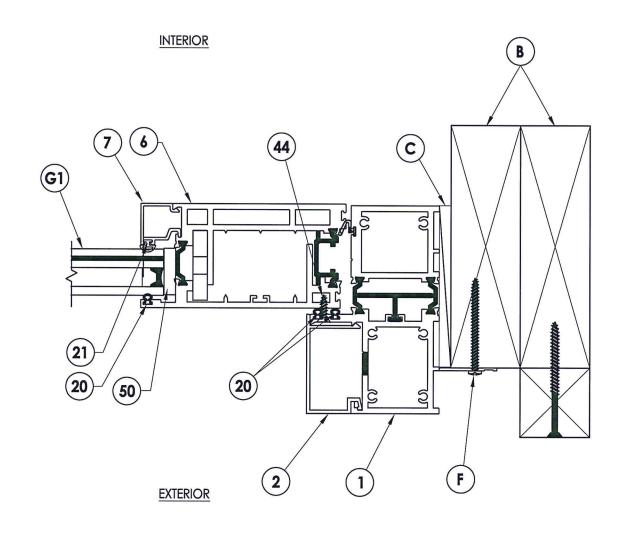
Revision Log

Rev Number	<u>Date</u>	<u>Pages</u>	Revision(s)
0	6/26/2015	NA	Original Report Issue

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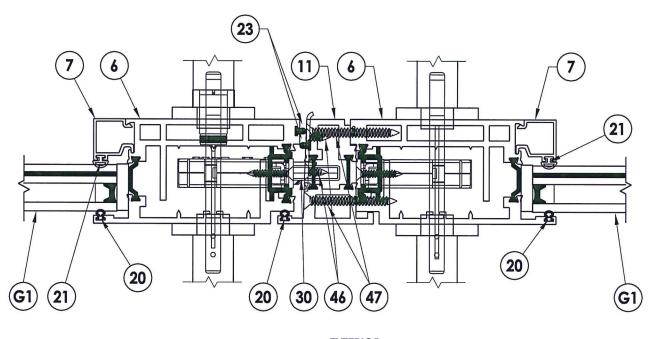
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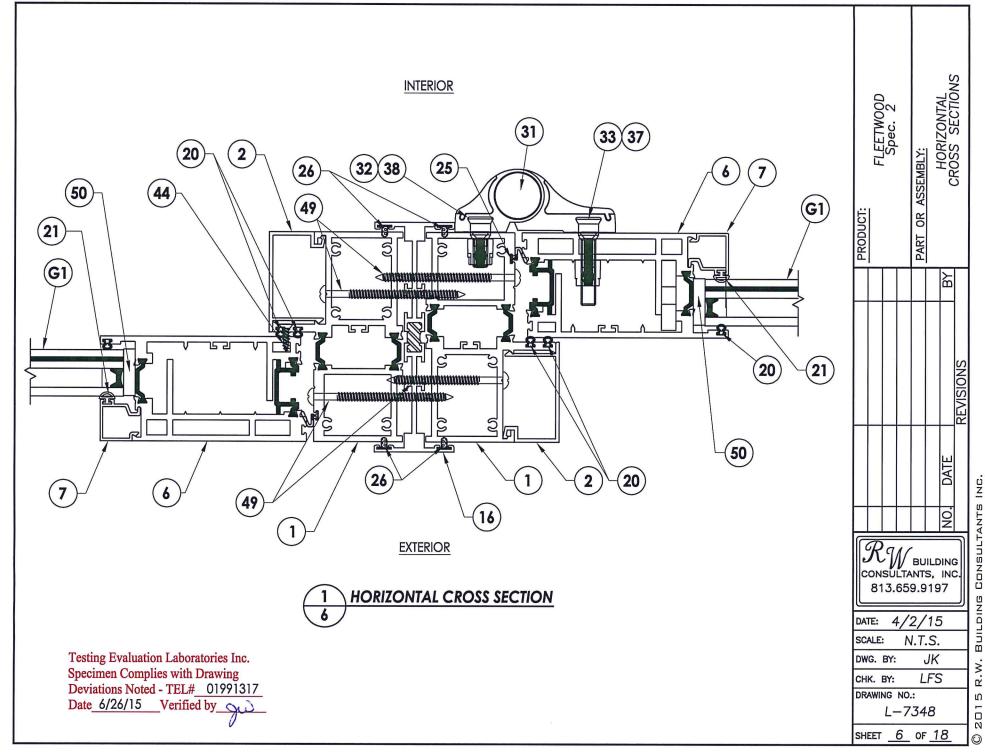
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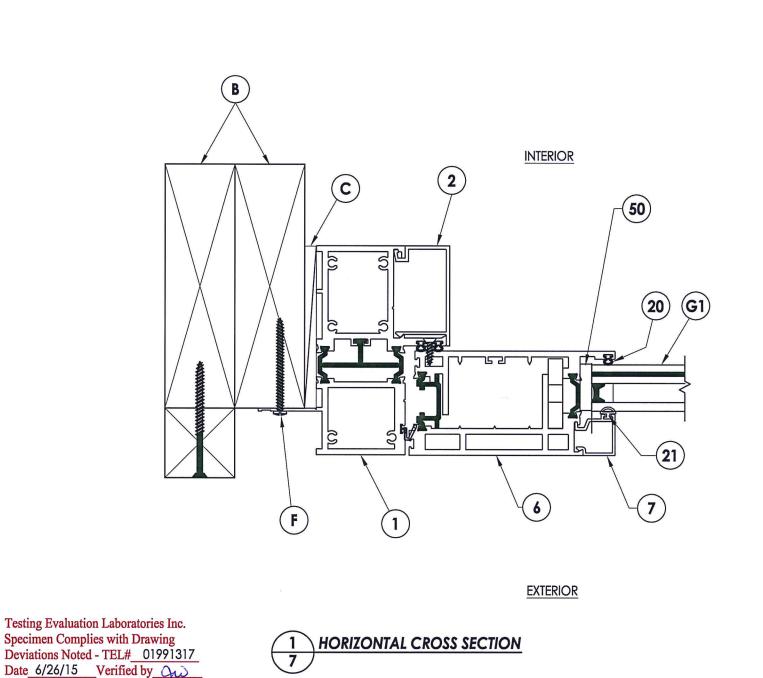
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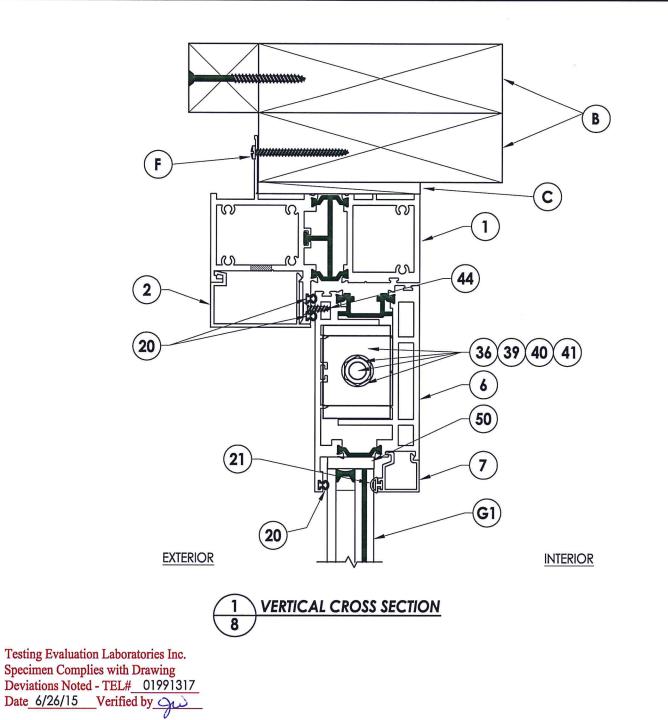
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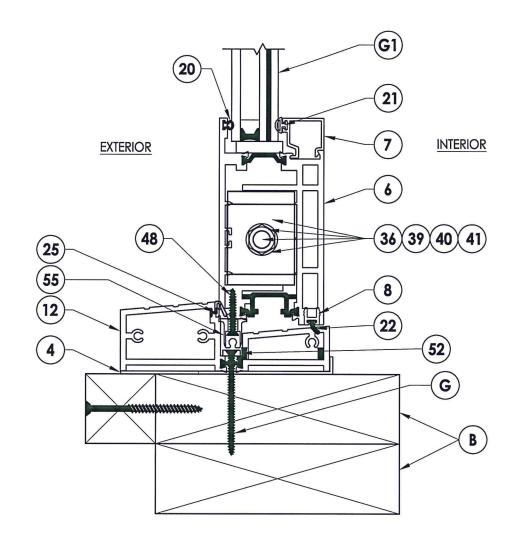
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1 VERTICAL CROSS SECTION

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
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Date 6/26/15 Verified by

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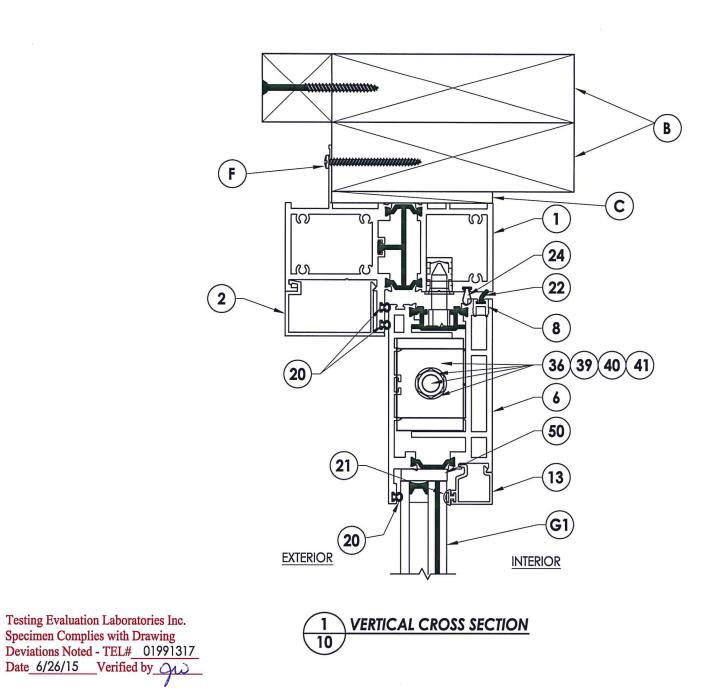
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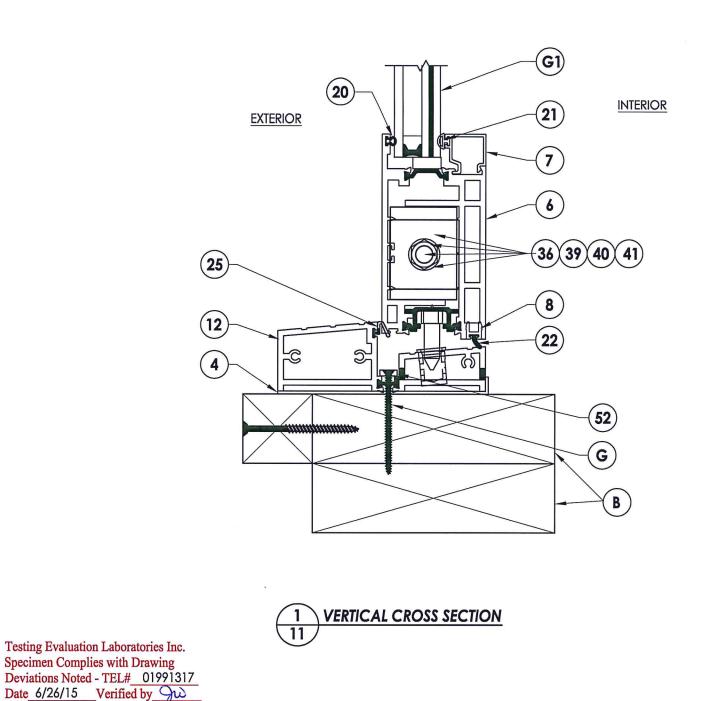
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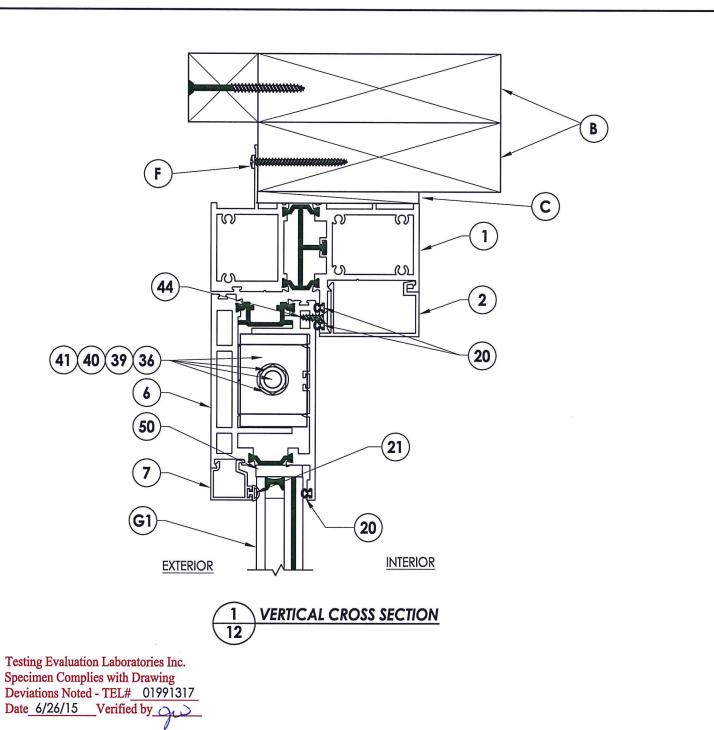
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FLEETWOOD Spec. 2

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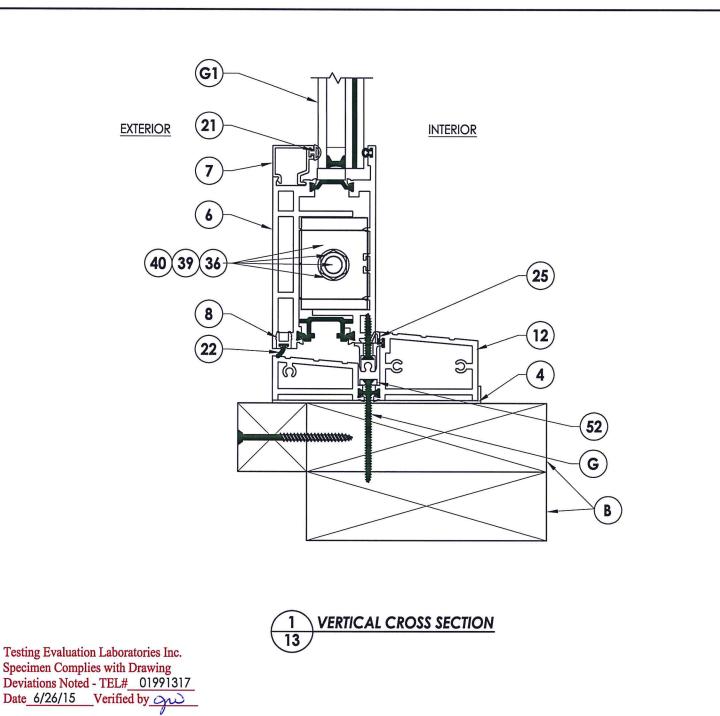
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L-7348 SHEET <u>13</u> OF <u>18</u>

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FLEETWOOD Spec. 2

COMPONENTS

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	BILL OF MATER	RIALS	
ПЕМ#	DESCRIPTION	PART#	MATERIAL
В	2X BUCK SG >= 0.55	-	WOOD
С	1/4" MAX. SHIM SPACE	-	-
F	#10 x 2" PFH WOOD SCREW	-	STEEL
G	#8 x 2" PFH WOOD SCREW	-	STEEL
1	FRAME (FIN)	3911	6063-T6 ALUM
2	FRAME SNAP-IN	3912	6063-T6 ALUM
4	SILL PAN	-	SHEET METAL (ALUMINUM)
6	SASH	3902	6063-T6 ALUM
7	1" GLASS STOP	3907	6063-T6 ALUM
8	ATLANTIC SEAL CLIP	3916	6063-T6 ALUM
11	ASTRAGAL	3905	6063-T6 ALUM
12	IN-SWING SILL	3904	6063-T6 ALUM
16	KONA I-MULLION	3082	6063-T6 ALUM
20	BULB VINYL - MINI (EPDM 70 Durometer)	25199	TREMCO, # TX20801E
21	BULB VINYL - LARGE (EPDM 70 Durometer)	25031	TREMCO, # TX19638E
22	FOAM SEAL	25196	EMESBURY, # 32390
23	Q-LON FOAM SEAL	25189	SCHLEGEL CORP., # Q225T190
25	Q-LON FOAM SEAL	25059	SCHLEGEL CORP., # QEZ 376
26	Q-LON FOAM SEAL	19120	SCHLEGEL CORP., # U 5212
30	LOCKING HARDWARE (5 point lock)	-	TRUTH
31	BUTT HINGE	-	SAVIO
32	BACK UP KIT	20535	SAVIO
33	HINGE BOLT, 8M X 48MM (FOR PANEL)	25026	SAVIO
36	BACK UP PLATE FOR CORNER BLOCK	25025	-
37	MACHINE SCREW NO 10-32, FHP 1.125"	25074	STAINLESS STEEL
38	MACHINE SCREW NO 10-32, FHP .75"	25073	STAINLESS STEEL
39	HEX HEAD CAP SCREW .375-16, 2.250"	25175	STAINLESS STEEL
40	.375-16 SS. HEX NUT	25023	STAINLESS STEEL
41	.375 SPLIT LOCK WASHER	25024	STAINLESS STEEL
42	.375-16 SS. HEX NUT	25176	STAINLESS STEEL
44	#8 x 1/2" PFH SMS	-	STEEL
46	SCREW NO 10, UFHP .5"	20275	STAINLESS STEEL
47	SCREW NO 10, FHP 2"	20298	STAINLESS STEEL
48	#8 x 1" PFH SMS	-	STEEL
49	#10 x 3" PFH SMS	-	STEEL
50	4" LONG SETTING BLOCK	18620	-
52	ANCHOR BLOCK	-	6063-T6 ALUM
55	FIXED SILL BLOCK	-	6063-T6 ALUM
56	LATCH AND DEADBOLT STRIKE PLATE	_	-
57	STRIKE PLATE	_	_

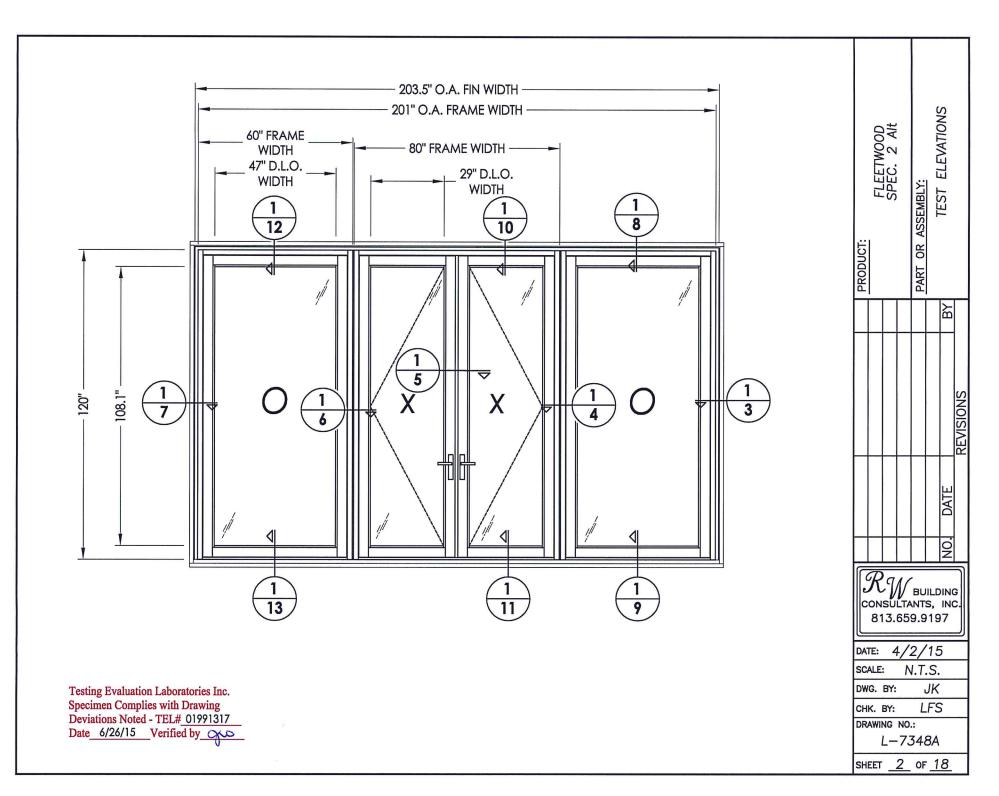
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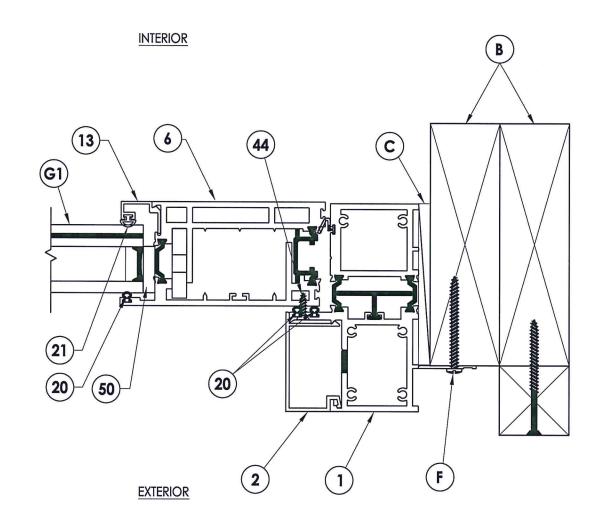
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Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991317
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1 HORIZONTAL CROSS SECTION

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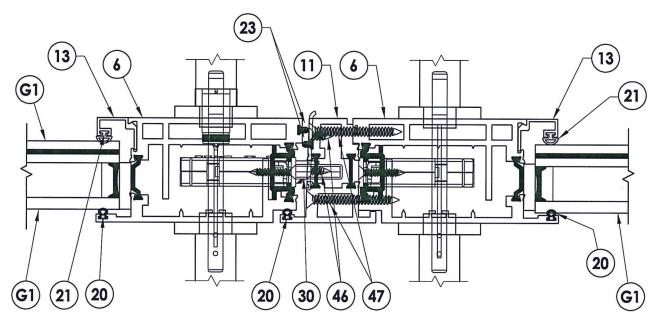
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L-7348A SHEET <u>3</u> OF <u>18</u>

2015 R.W. BUILDING CONSULTANTS INC.

INTERIOR

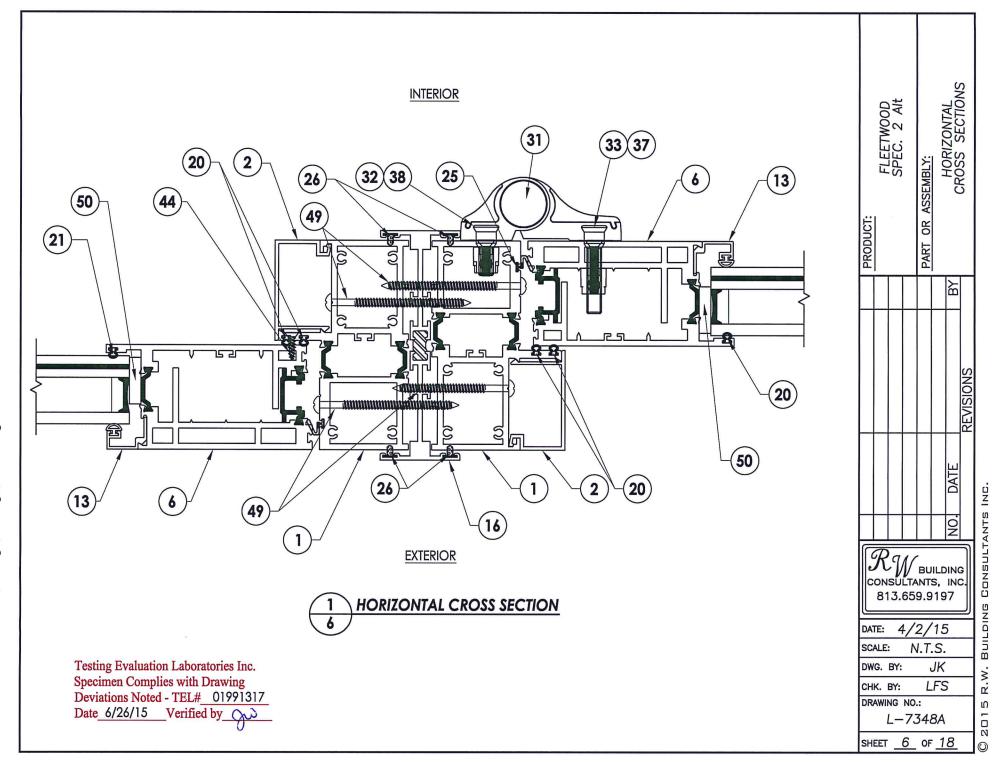


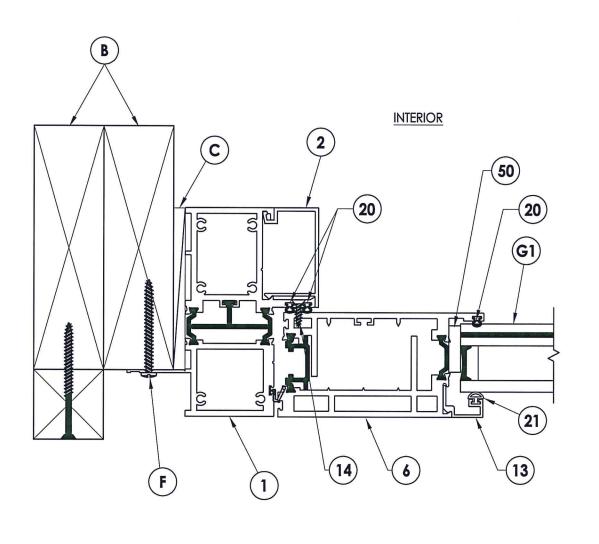
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Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991317
Date 6/26/15 Verified by

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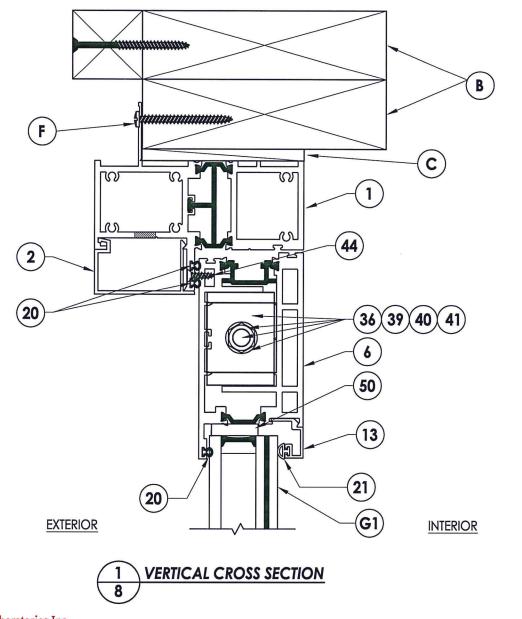
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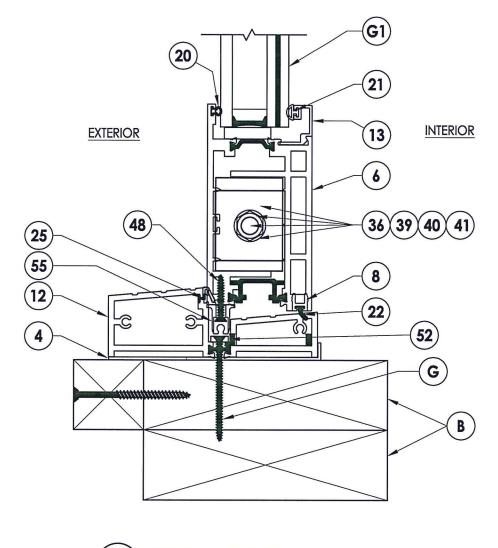
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Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
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Specimen Complies with Drawing
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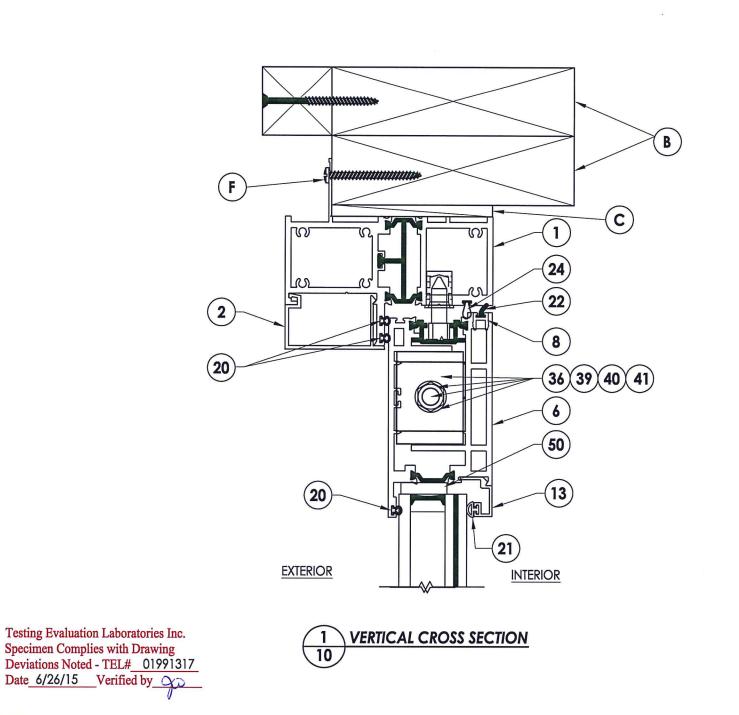
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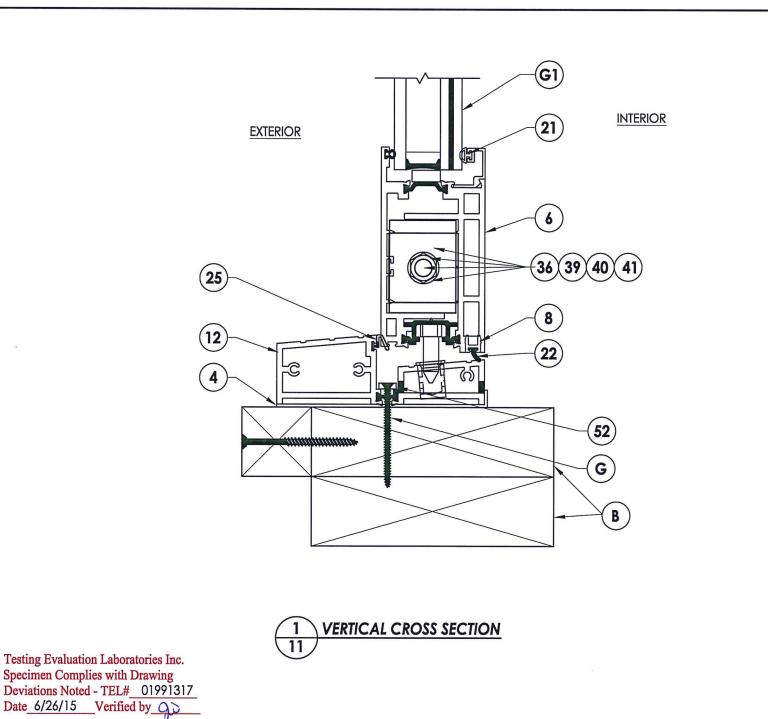
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FLEETWOOD SPEC. 2 Alt

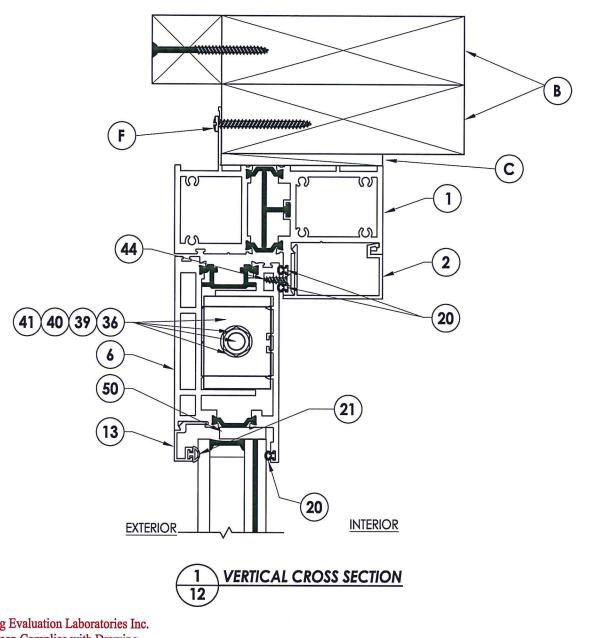
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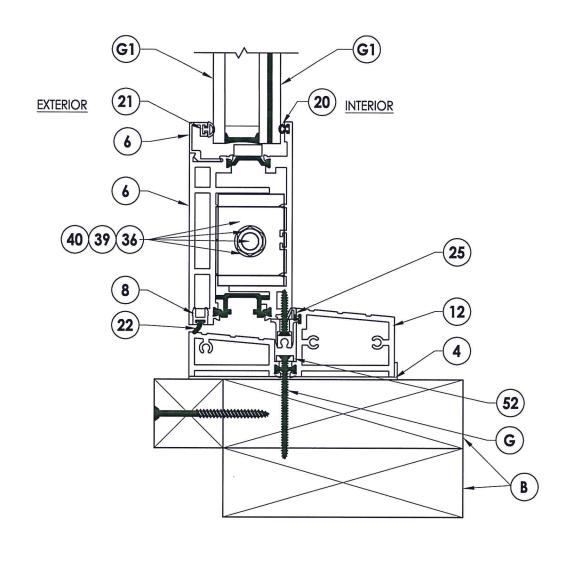


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Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991317
Date 6/26/15 Verified by

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SHEET <u>12</u> OF <u>18</u>	



1 VERTICAL CROSS SECTION

Testing Evaluation Laboratories Inc.

Specimen Complies with Drawing

Deviations Noted - TEL# 01991317

Date 6/26/15 Verified by

RW BUILDING CONSULTANTS, INC. 813.659.9197

DATE: 4/2/15
SCALE: N.T.S.

FLEETWOOD SPEC. 2 Alt

PRODUCT:

PART OR ASSEMBLY:

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CHK. BY: LFS
DRAWING NO.:
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DWG. BY:

2015 R.W. BUILDING CONSULTANTS INC

BUILDING CONSULTANTS INC. ₽.₩. Ŋ 201

COMPONENTS

BY

DATE

NO.

BILL OF MATERIALS						
ПЕМ#	DESCRIPTION	PART#	MATERIAL			
В	2X BUCK SG >= 0.55	-	WOOD			
С	1/4" MAX. SHIM SPACE	-	-			
F	#10 x 2" PFH WOOD SCREW	-	STEEL			
G	#8 x 2" PFH WOOD SCREW	_	STEEL			
1	FRAME (FIN)	3911	6063-T6 ALUM			
2	FRAME SNAP-IN	3912	6063-T6 ALUM			
4	SILL PAN	1-	SHEET METAL (ALUMINUM)			
6	SASH	3902	6063-T6 ALUM			
8	ATLANTIC SEAL CLIP	3916	6063-T6 ALUM			
11	ASTRAGAL	3905	6063-T6 ALUM			
12	IN-SWING SILL	3904	6063-T6 ALUM			
13	1-1/2" GLASS STOP	-	6063-T6 ALUM			
16	KONA I-MULLION	3082	6063-T6 ALUM			
20	BULB VINYL - MINI (EPDM 70 Durometer)	25199	TREMCO, # TX20801E			
21	BULB VINYL - LARGE (EPDM 70 Durometer)	25031	TREMCO, # TX19638E			
22	FOAM SEAL	25196	EMESBURY, # 32390			
23	Q-LON FOAM SEAL	25189	SCHLEGEL CORP., # Q225T190			
25	Q-LON FOAM SEAL	25059	SCHLEGEL CORP., # QEZ 376			
26	Q-LON FOAM SEAL	19120	SCHLEGEL CORP., # U 5212			
30	LOCKING HARDWARE (5 point lock)	-	TRUTH			
31	BUTT HINGE	-	SAVIO			
32	BACK UP KIT	20535	SAVIO			
33	HINGE BOLT, 8M X 48MM (FOR PANEL)	25026	SAVIO			
36	BACK UP PLATE FOR CORNER BLOCK	25025	-			
37	MACHINE SCREW NO 10-32, FHP 1.125"	25074	STAINLESS STEEL			
38	MACHINE SCREW NO 10-32, FHP .75"	25073	STAINLESS STEEL			
39	HEX HEAD CAP SCREW .375-16, 2.250"	25175	STAINLESS STEEL			
40	.375-16 SS. HEX NUT	25023	STAINLESS STEEL			
41	.375 SPLIT LOCK WASHER	25024	STAINLESS STEEL			
42	.375-16 SS. HEX NUT	25176	STAINLESS STEEL			
44	#8 x 1/2" PFH SMS	-	STEEL			
46	SCREW NO 10, UFHP .5"	20275	STAINLESS STEEL			
47	SCREW NO 10, FHP 2"	20298	STAINLESS STEEL			
48	#8 x 1" PFH SMS	-	STEEL			
49	#10 x 3" PFH SMS	-	STEEL			
50	4" LONG SETTING BLOCK	18620	-			
52	ANCHOR BLOCK	-	6063-T6 ALUM			
55	FIXED SILL BLOCK	-	6063-T6 ALUM			
56	LATCH AND DEADBOLT STRIKE PLATE	-	-			
57	STRIKE PLATE	-	-			

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991317
Date 6/26/15 Verified by

	PRODUCT: FLEETWOOD SPEC. 2 Alt				PART OR ASSEMBLY: BILL OF MATERIALS				
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