

## Testing Evaluation Laboratories, Inc.

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

ASTM E 1886-05 / ASTM E 1996-09 Missile Level "D" (Includes Wind Zone 4)

**TEST REPORT SUMMARY** 

**Test Report Issued To:** 

Fleetwood Windows and Doors 1 Fleetwood Way Corona, CA 92879

3900-T Side Hinged Doors

	Results		
	Specimen 9a	Specimens 10a and 10b	
Title of Test	108.00 x 168.00	108.00 x 168.00	
	O/OX - Outswing	O/OX - Outswing	
	Pass	Pass	
Impact			
Fatigue	+50.0/- 55.0 psf	+50.0/- 55.0 psf	
Load Cycling			

Reference should be made to Report No. TEL 01991346 for complete test specimen description and data. For corresponding data regarding AAMA/WDMA/CSA 101/I.S./2/A440-08 and A440-11 (A440S1-09) reference should be made to Report No. TEL 01991344 and No. TEL 01991345.

For Testing Evaluation Laboratories, Inc.

Vivian K. Wright,

resident



# Testing Evaluation Laboratories, Inc.

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

#### **TEST RESULTS**

IAS Lab Certification Number: TL-299 Report No: TEL 01991346
Test Dates: March 16, 2015

through June 23, 2015

Report Date: June 26, 2015

#### Issued to:

Fleetwood Windows and Doors 1 Fleetwood Way Corona, CA 92879

Project Summary: Testing Evaluation Laboratories, Inc. (TEL) was contracted by Fleetwood Windows and Doors to perform tests on the 3900-T Side Hinged Doors 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 1886-05 / ASTM E 1996-09 Missile Level "D" (Includes Wind Zone 4)

**Test Specimen Description:** 

Series / Model: 3900-T Side Hinged Doors

Type: Aluminum Side Hinged Door with Sidelite and Transom – (O/OX)

Overall Size: 108.00" x 168.00" – All Specimens – (O/OX)

Daylight Opening: 36.00" x 109.00" – Door Panel – All Specimens

55.25 " x 115.25" – Sidelite – All Specimens 102.25" x 43.25" – Transom – All Specimens

Glazing Details: See attached drawings for glazing 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 numbers L-7346 and L-7351.

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#### **IMPACT AND CYCLING TESTS**

Specimen 9a – 108.00" x 168.00" – Outswing Aluminum Side Hinged Door with Sidelite and Transom – (O/OX)

#### ASTM E1886-05/1996-09 - Large Missile Impact (2 x 4 Southern Yellow Pine)

Cond. Temp	Missile	Missile	Missile	Muzzle Distance
Of Specimen	Level	Weight	Length	From Specimen
75°F	D	9.0 lbs, 0 oz.	8'-1/4"	17'0"

Impact Location	Results	X - Measurement	Y - Measurement	Speed
1	Pass	83.50"	60.00"	50.0 fps
2	Pass	71.50"	11.50"	50.1 fps
3	Pass	30.50"	61.00"	50.0 fps
4	Pass	9.00"	9.00"	49.9 fps
5	Pass	60.00"	59.50"	50.0 fps
6	Pass	54.00"	120.00"	50.1 fps

Orientation of Missile at Impact was within +/-5° of horizontal.

None of the impacts penetrated the specimens.

#### ASTM E1886-05/1996-09 - Fatigue Load Cycling Desig

Design Pressure +50.0 psf / - 55.0 psf

Positive % of Test Load	Positive Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
20% to 50%	10.0 to 25.0	3500	1.90
0% to 60%	0.0 to 30.0	300	2.89
50% to 80%	25.0 to 40.0	600	1.44
30% to 100%*	15.0 to 50.0	100	1.93

Negative % of Test Load	Negative Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
30% to 100%*	16.5 to 55.0	50	2.70
50% to 80%	27.5 to 44.0	1050	1.41
0% to 60%	0.0 to 30.0	50	2.10
20% to 50%	11.0 to 27.5	3350	1.56

<sup>\*</sup>Active Panel deflected 2.13" from original plane at 100% Positive load and 2.50" from original plane at 100% Negative load. At the completion of cycles the door panel was operable. There were no tears in the film. In our opinion, the tape and film used to seal for air leakage did not influence the results of the test.

James Hayhurst, Test Technician

<sup>&</sup>quot;X" measurement is from the left edge of test specimen.

<sup>&</sup>quot;Y" measurement is from the bottom edge of test specimen.

#### **IMPACT AND CYCLING TESTS**

Specimen 10a – 108.00" x 168.00" – Outswing Aluminum Side Hinged Door with Sidelite and Transom – (O/OX)

#### ASTM E1886-05/1996-09 - Large Missile Impact (2 x 4 Southern Yellow Pine)

Cond. Temp	Missile	Missile	Missile	Muzzle Distance
Of Specimen	Level	Weight	Length	From Specimen
75°F	D	9.0 lbs, 1 oz.	8'-1/4"	

Impact Location	Results	X - Measurement	Y - Measurement	Speed
1	Pass	31.00"	61.00"	50.1 fps
2	Pass	52.00"	9.00"	50.0 fps
3	Pass	60.00"	60.00"	50.0 fps
4	Pass	83.50"	60.00"	50.1 fps
5	Pass	96.50"	11.50"	50.1 fps
6	Pass	54.25"	119.75"	49.9 fps

Orientation of Missile at Impact was within +/-5° of horizontal. None of the impacts penetrated the specimens.

#### ASTM E1886-05/1996-09 – Fatigue Load Cycling Design

Design Pressure +50.0 psf / - 55.0 psf

Positive % of Test Load	Positive Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
20% to 50%	10.0 to 25.0	3500	1.80
0% to 60%	0.0 to 30.0	300	2.89
50% to 80%	25.0 to 40.0	600	1.44
30% to 100%*	15.0 to 50.0	100	1.93

Negative % of Test Load	Negative Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
30% to 100%*	16.5 to 55.0	50	2.70
50% to 80%	27.5 to 44.0	1050	1.41
0% to 60%	0.0 to 30.0	50	2.10
20% to 50%	11.0 to 27.5	3350	1.56

<sup>\*</sup>Active Panel deflected 2.75" from original plane at 100% Positive load and 3.25" from original plane at 100% Negative load. At the completion of cycles the door panel was operable. There were no tears in the film. In our opinion, the tape and film used to seal for air leakage did not influence the results of the test.

James Hayhurst, Test Technician

PF 595 TEL 01991346

<sup>&</sup>quot;X" measurement is from the left edge of test specimen.

<sup>&</sup>quot;Y" measurement is from the bottom edge of test specimen.

#### **IMPACT AND CYCLING TESTS**

Specimen 10b - 108.00" x 168.00" – Outswing Aluminum Side Hinged Door with Sidelite and Transom – (O/OX)

#### ASTM E1886-05/1996-09 - Large Missile Impact (2 x 4 Southern Yellow Pine)

Cond. Temp	Missile	Missile	Missile	Muzzle Distance
Of Specimen	Level	Weight	Length	From Specimen
75°F	D	9.0 lbs, 1 oz.	8'-1/4"	17'0"

Impact Location	Results	X - Measurement	Y - Measurement	Speed
1	Pass	9.00"	112.00"	50.0 fps
2	Pass	31.00"	60.25"	49.9 fps
3	Pass	83.25"	60.12"	50.0 fps
4	Pass	95.25 "	11.25"	50.0 fps

Orientation of Missile at Impact was within +/-5° of horizontal. None of the impacts penetrated the specimens.

#### ASTM E1886-05/1996-09 - Fatigue Load Cycling

#### Design Pressure +50.0 psf / - 55.0 psf

Positive % of Test Load	Positive Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
20% to 50%	10.0 to 25.0	3500	1.91
0% to 60%	0.0 to 30.0	300	2.81
50% to 80%	25.0 to 40.0	600	1.52
30% to 100%*	15.0 to 50.0	100	2.01

Negative % of Test Load	Negative Pressure Range (psf)	Number Of Cycles	Average Cycle Time (Sec)
30% to 100%*	16.5 to 55.0	50	2.12
50% to 80%	27.5 to 44.0	1050	1.52
0% to 60%	0.0 to 30.0	50	2.17
20% to 50%	11.0 to 27.5	3350	1.69

\*Active Panel deflected 2.75" from original plane at 100% Positive load and 3.12" from original plane at 100% Negative load. At the completion of cycles the door panel was operable. There were no tears in the film. In our opinion, the tape and film used to seal for air leakage did not influence the results of the test.

James Hayhurst, Test Technician

PF 595 TEL 01991346

<sup>&</sup>quot;X" measurement is from the left edge of test specimen.

<sup>&</sup>quot;Y" measurement is from the bottom edge of test specimen.

#### 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 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, 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.

Vivian K. Wright,

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### **Revision Log**

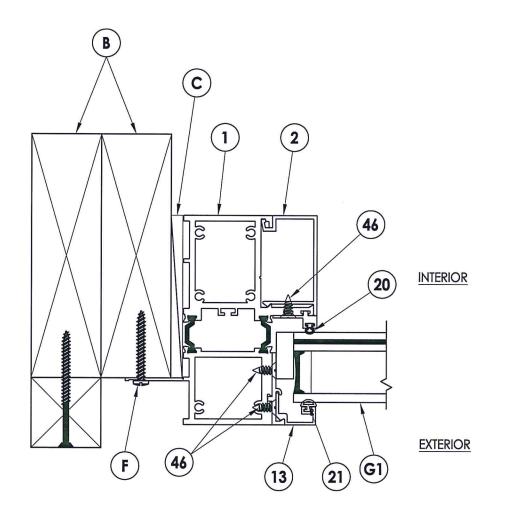
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0	6/26/2015	NA	Original Report Issue	

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TEL 01991346

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10	Vertical cross sections						
11	Frame anchoring						
12	Components and glazing details						
13	Components						
14	Bill of materials						

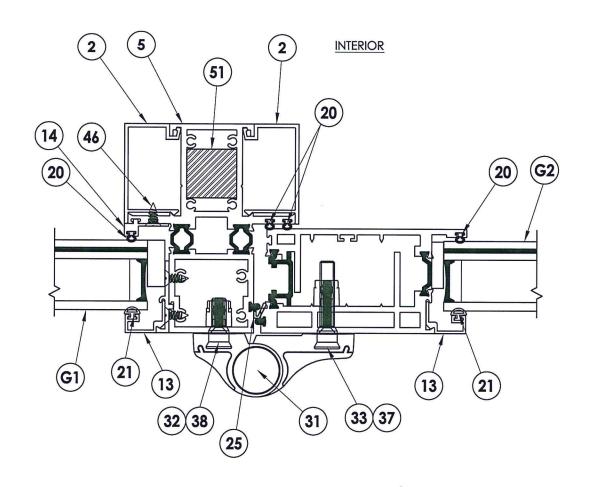
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**EXTERIOR** 

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991346
Date 6/26/2015 Verified by

1 HORIZONTAL CROSS SECTION

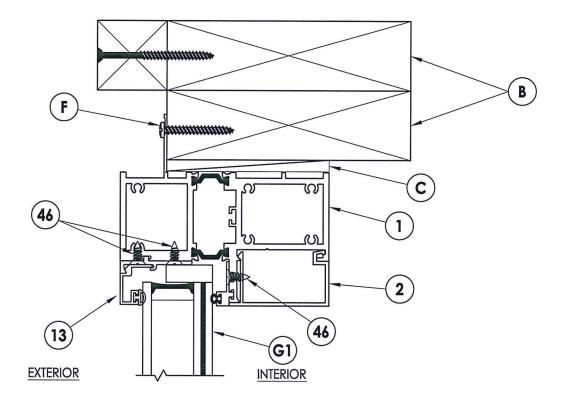
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VERTICAL CROSS SECTION

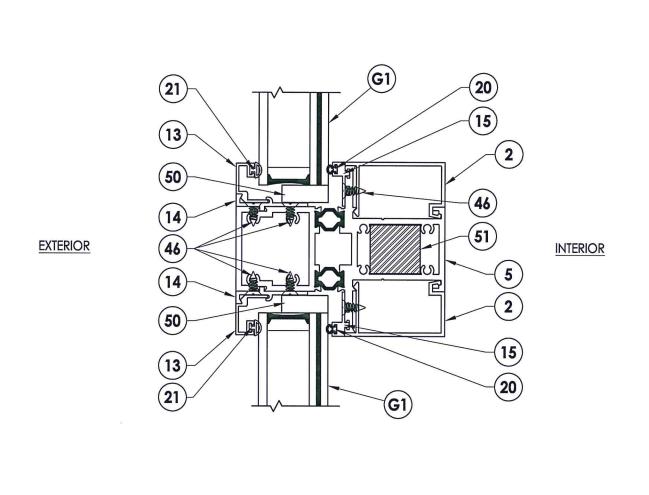
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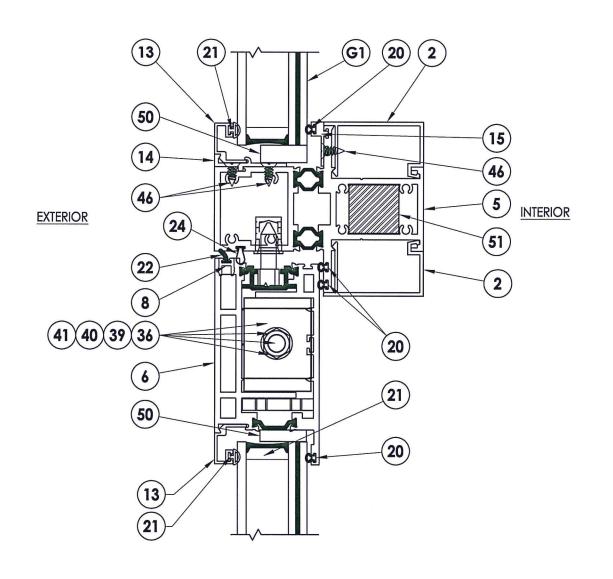
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**VERTICAL CROSS SECTION** 

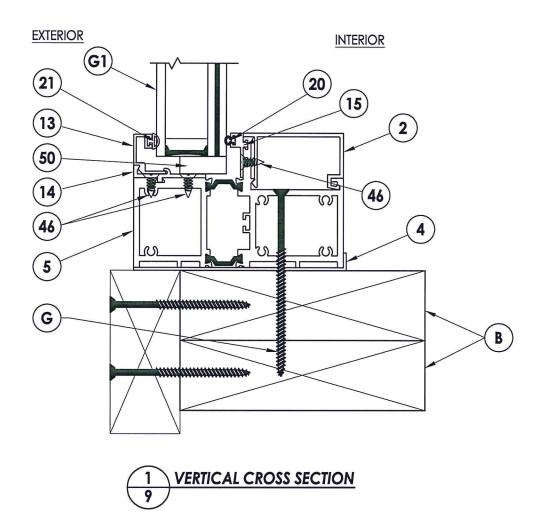
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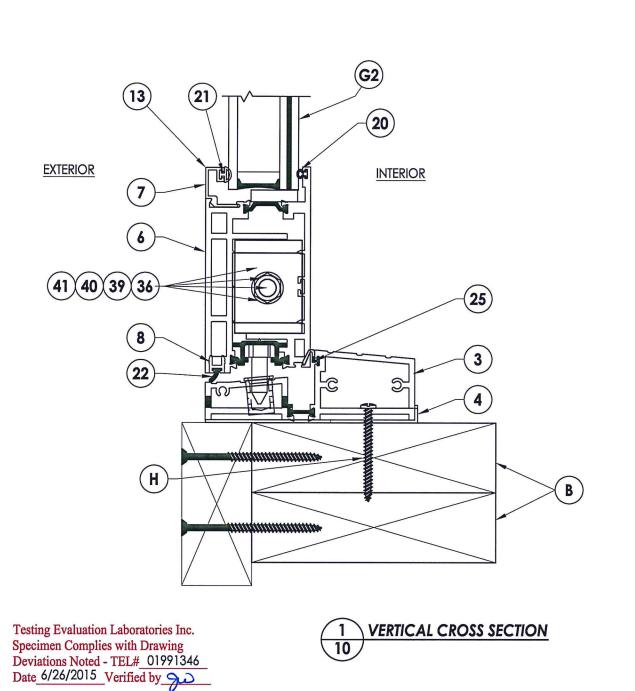


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REVISIONS

COMPONENTS AND GLAZING DETAIL

PART OR ASSEMBLY:

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R.W. BUILDING CONSULTANTS INC.

2015

	BILL OF MATERIAL	S	
ITEM #	DESCRIPTION	PART#	MATERIAL
В	2X BUCK SG >= 0.55	-	WOOD
С	1/4" MAX. SHIM SPACE	-	_
D	#10 x 2-3/4" PFH WOOD SCREW	-	STEEL
F	#10 x 1-1/2" PFH WOOD SCREW	-	STEEL
G	1/4" x 4" PFH ITW CONCRETE SCREW	-	STEEL
Н	#10 x 2" PFH WOOD SCREW	-	STEEL
1	FRAME	3911	6063-T6 ALUM
2	FRAME SNAP-IN	3912	6063-T6 ALUM
3	OUT-SWING SILL	3202	6063-T6 ALUM
4	SILL PAN	-	SHEET METAL (ALUMINUM)
5	FRAME TEE BAR	3913	6063-T6 ALUM
6	SASH	3902	6063-T6 ALUM
8	ATLANTIC SEAL CLIP	3916	6063-T6 ALUM
9	CORNER BLOCK (CUT FROM 3906)	25167	6063-T6 ALUM
13	1-1/2" GLASS STOP	3908	6063-T6 ALUM
14	ATLANTIC NARROW FIXED ADAPTOR	3915	6063-T6 ALUM
15	ATLANTIC NARROW FIXED GLASS STOP ADAPTOR	3917	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
24	Q-LON FOAM SEAL	25058	SCHLEGEL CORP., # Q375T190
25	Q-LON FOAM SEAL	25059	SCHLEGEL CORP., # QEZ 376
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
46	SCREW NO 10, UFHP .5"	20275	STAINLESS STEEL
50	4" LONG SETTING BLOCK	18620	-
51	REINFORCEMENT (1" X 1")	-	6061-T6 ALUM
56	LATCH AND DEADBOLT STRIKE PLATE	-	STAINLESS STEEL
57	STRIKE PLATE	_	STAINLESS STEEL

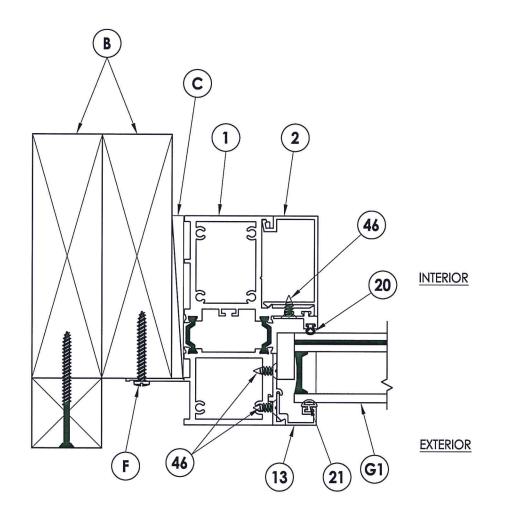
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MATERIALS

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13	Components						
14	Bill of materials						

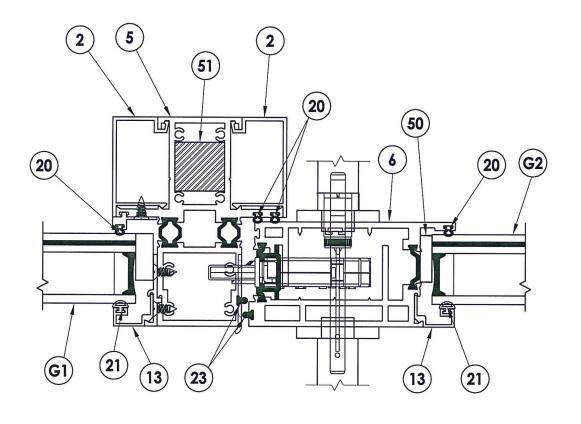
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**HORIZONTAL CROSS SECTION** 

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#### INTERIOR



#### **EXTERIOR**

1 HORIZONTAL CROSS SECTION

Testing Evaluation Laboratories Inc.
Specimen Complies with Drawing
Deviations Noted - TEL# 01991346
Date 6/26/2015 Verified by



HORIZONTAL CROSS SECTIONS

BY

FLEETWOOD SPEC. #9, 9A

PRODUCT:

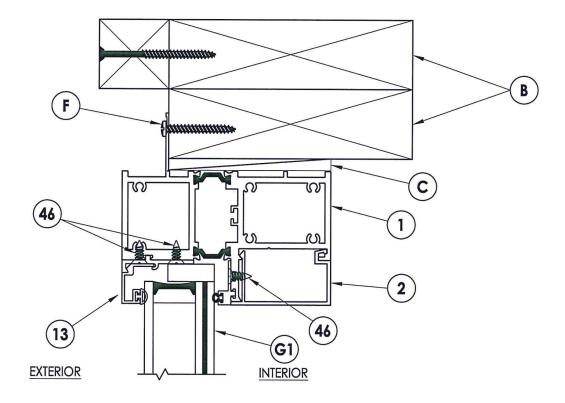
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Testing Evaluation Laboratories Inc.

Specimen Complies with Drawing
Deviations Noted - TEL# 01991346
Date 6/26/2015 Verified by

FLEETWOOD SPEC. #9, 9A PART OR ASSEMBLY: R.W. BUILDING CONSULTANTS INC. NO. RW BUILDING CONSULTANTS, INC. 813.659.9197 DATE: 3/17/15 SCALE: N.T.S. DWG. BY: JK LFS

© 2015

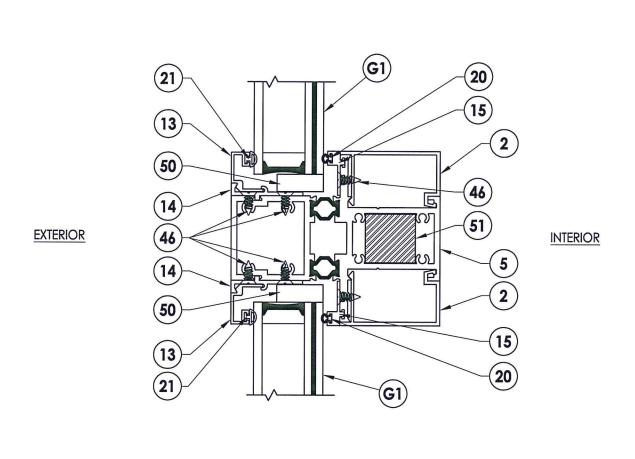


1 VERTICAL CROSS SECTION

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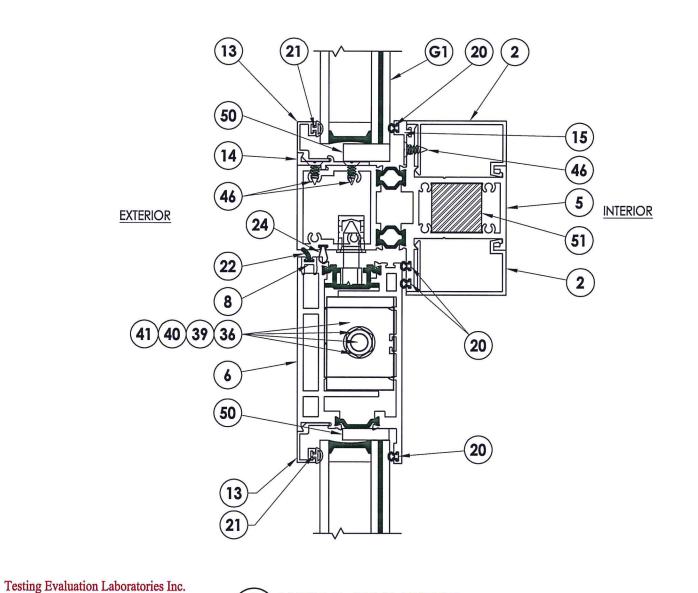
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Specimen Complies with Drawing
Deviations Noted - TEL# 01991346
Date 6/26/2015 Verified by

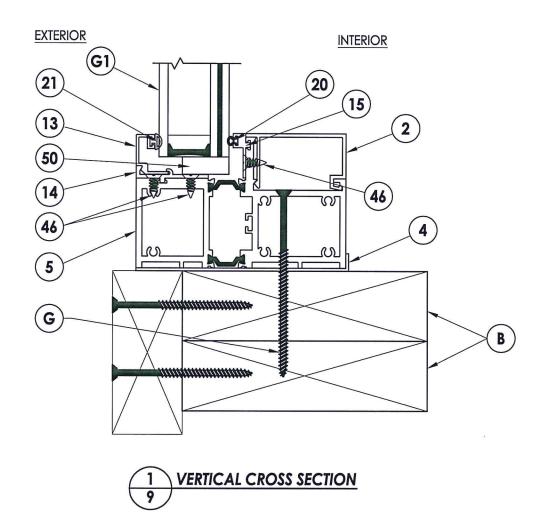


VERTICAL CROSS SECTIONS PART OR ASSEMBLY: PRODUCT: BY REVISIONS NO. RW BUILDING CONSULTANTS, INC. 813.659.9197 DATE: 3/17/15 N.T.S. SCALE: JK DWG. BY: LFS CHK. BY: DRAWING NO .: 02015 L-7346 SHEET 8 OF 14

CONSULTANTS INC.

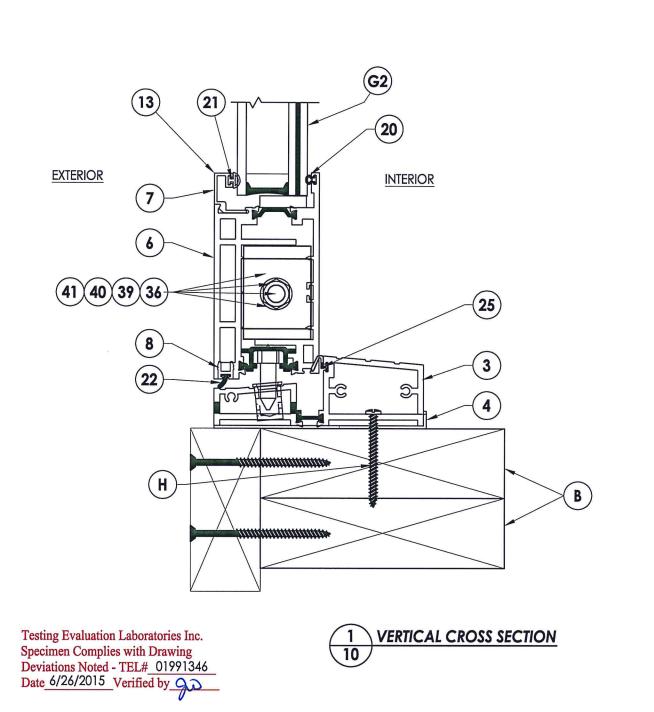
R.W. BUILDING

**VERTICAL CROSS SECTION** 

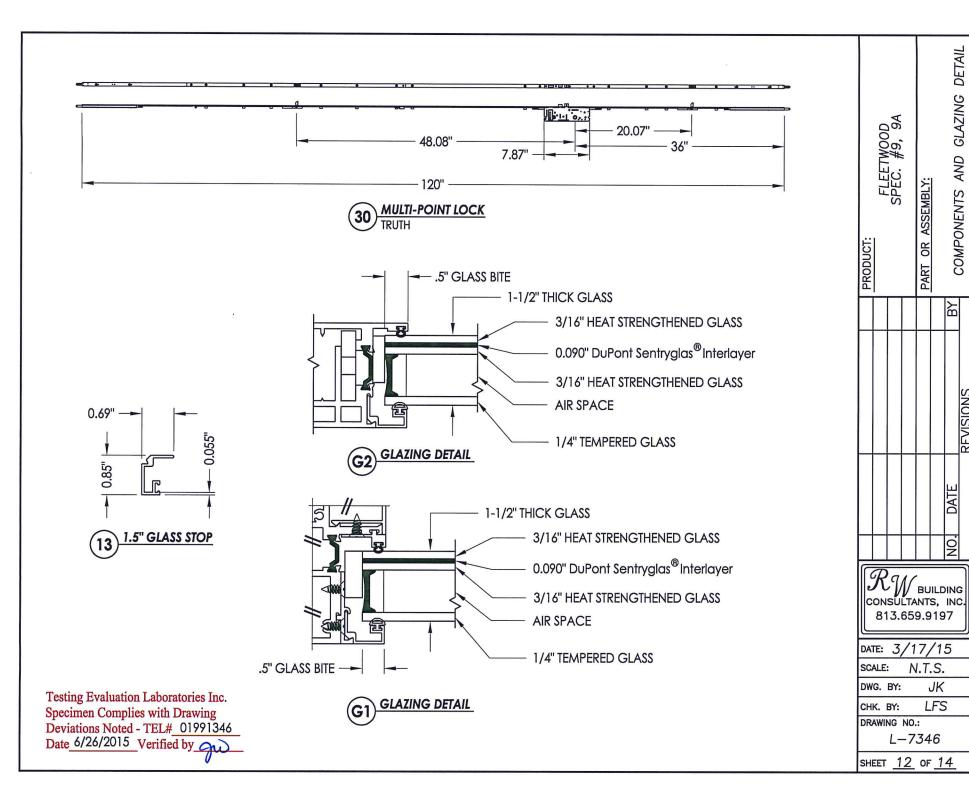


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VERTICAL CROSS SECTIONS PART OR ASSEMBLY: R.W. BUILDING CONSULTANTS INC. RW BUILDING CONSULTANTS, INC. 813.659.9197 DATE: 3/17/15 N.T.S. SCALE: JK DWG. BY: LFS CHK. BY: 2015 DRAWING NO .: L-7346 SHEET 10 OF 14



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2015 R.W. BUILDING CONSULTANTS INC.

REM#   DESCRIPTION   PART#   MATERIAL	
C       1/4" MAX. SHIM SPACE       -       -       -         D       #10 x 2-3/4" PFH WOOD SCREW       -       STEEL         F       #10 x 1-1/2" PFH WOOD SCREW       -       STEEL         G       1/4" x 4" PPH CONCRETE SCREW       -       STEEL         H       #10 x 2" PPH WOOD SCREW       -       STEEL         1       FRAME       3911       6063-76 ALUM         2       FRAME SNAP-IN       3912       6063-76 ALUM         3       OUT-SWING SILL       3202       6063-76 ALUM         4       SILL PAN       -       SHEET METAL (ALUMINUM)         5       FRAME TEE BAR       3913       6063-76 ALUM         6       SASH       3902       6063-76 ALUM         7       1" GLASS STOP       3907       6063-76 ALUM         8       ATLANTIC SEAL CLIP       3916       6063-76 ALUM         9       CORNER BLOCK (CUT FROM 3906)       25167       6063-76 ALUM         13       1-1/2" GLASS STOP       3908       6063-76 ALUM         14       ATLANTIC NARROW FIXED ADAPTOR       3915       6063-76 ALUM         15       ATLANTIC NARROW FIXED GLASS STOP ADAPTOR       3917       6063-76 ALUM         15	٦
D         #10 x 2-3/4" PFH WOOD SCREW         -         STEEL           F         #10 x 1-1/2" PFH WOOD SCREW         -         STEEL           G         1/4" x 4" PPH CONCRETE SCREW         -         STEEL           H         #10 x 2" PPH WOOD SCREW         -         STEEL           1         FRAME         3911         6063-T6 ALUM           2         FRAME SNAP-IN         3912         6063-T6 ALUM           3         OUT-SWING SILL         3202         6063-T6 ALUM           4         SILL PAN         -         SHEET METAL (ALUMINUM)           5         FRAME TEE BAR         3913         6063-T6 ALUM           6         SASH         3902         6063-T6 ALUM           7         1" GLASS STOP         3907         6063-T6 ALUM           8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         6063-T6 ALUM           20	٦
F         #10 x 1-1/2" PFH WOOD SCREW         -         STEEL           G         1/4" x 4" PPH CONCRETE SCREW         -         STEEL           H         #10 x 2" PPH WOOD SCREW         -         STEEL           1         FRAME         3911         6063-T6 ALUM           2         FRAME SNAP-IN         3912         6063-T6 ALUM           3         OUT-SWING SILL         3202         6063-T6 ALUM           4         SILL PAN         -         SHEET METAL (ALUMINUM)           5         FRAME TEE BAR         3913         6063-T6 ALUM           6         SASH         3902         6063-T6 ALUM           7         1" GLASS STOP         3907         6063-T6 ALUM           8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         6063-T6 ALUM           20         BULB VINYL - MINI (EPDM 70 Durometer)         25199         TREMCO, # TX20801E	٦
G   1/4" x 4" PPH CONCRETE SCREW   -   STEEL     H   #10 x 2" PPH WOOD SCREW   -   STEEL     1   FRAME   3911   6063-T6 ALUM     2   FRAME SNAP-IN   3912   6063-T6 ALUM     3   OUT-SWING SILL   3202   6063-T6 ALUM     4   SILL PAN   -   SHEET METAL (ALUMINUM)     5   FRAME TEE BAR   3913   6063-T6 ALUM     6   SASH   3902   6063-T6 ALUM     7   1" GLASS STOP   3907   6063-T6 ALUM     8   ATLANTIC SEAL CLIP   3916   6063-T6 ALUM     9   CORNER BLOCK (CUT FROM 3906)   25167   6063-T6 ALUM     13   1-1/2" GLASS STOP   3908   6063-T6 ALUM     14   ATLANTIC NARROW FIXED ADAPTOR   3915   6063-T6 ALUM     15   ATLANTIC NARROW FIXED BLASS STOP ADAPTOR   3917   6063-T6 ALUM     10   BULB VINYL - MINI (EPDM 70 Durometer)   25199   TREMCO, # TX20801E     21   BULB VINYL - LARGE (EPDM 70 Durometer)   25189   SCHLEGEL CORP., # Q225T19( 24 Q-LON FOAM SEAL   25189   SCHLEGEL CORP., # Q225T19( 32 BACK UP KIT   31 BUTT HINGE   -   SAVIO     32   BACK UP KIT   20535   SAVIO   33 HINGE BOLT, 8M X 48MM (FOR PANEL)   25026   SAVIO	7
H #10 x 2" PPH WOOD SCREW	٦
1         FRAME         3911         6063-T6 ALUM           2         FRAME SNAP-IN         3912         6063-T6 ALUM           3         OUT-SWING SILL         3202         6063-T6 ALUM           4         SILL PAN         -         SHEET METAL (ALUMINUM)           5         FRAME TEE BAR         3913         6063-T6 ALUM           6         SASH         3902         6063-T6 ALUM           7         1" GLASS STOP         3907         6063-T6 ALUM           8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         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         SCHLEGE	٦
2       FRAME SNAP-IN       3912       6063-T6 ALUM         3       OUT-SWING SILL       3202       6063-T6 ALUM         4       SILL PAN       -       SHEET METAL (ALUMINUM)         5       FRAME TEE BAR       3913       6063-T6 ALUM         6       SASH       3902       6063-T6 ALUM         7       1" GLASS STOP       3907       6063-T6 ALUM         8       ATLANTIC SEAL CLIP       3916       6063-T6 ALUM         9       CORNER BLOCK (CUT FROM 3906)       25167       6063-T6 ALUM         13       1-1/2" GLASS STOP       3908       6063-T6 ALUM         14       ATLANTIC NARROW FIXED ADAPTOR       3915       6063-T6 ALUM         15       ATLANTIC NARROW FIXED GLASS STOP ADAPTOR       3917       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., # Q225T19         30       LOCKING HARDWARE (5 point lock)       -       TRUTH         31       BUTT HINGE       - <td>٦</td>	٦
3 OUT-SWING SILL 4 SILL PAN - SHEET METAL (ALUMINUM) 5 FRAME TEE BAR 3913 6063-T6 ALUM 6 SASH 7 1" GLASS STOP 3907 6063-T6 ALUM 8 ATLANTIC SEAL CLIP 9 CORNER BLOCK (CUT FROM 3906) 13 1-1/2" GLASS STOP 3908 6063-T6 ALUM 14 ATLANTIC NARROW FIXED ADAPTOR 15 ATLANTIC NARROW FIXED GLASS STOP ADAPTOR 20 BULB VINYL - MINI (EPDM 70 Durometer) 21 BULB VINYL - LARGE (EPDM 70 Durometer) 22 FOAM SEAL 25196 EMESBURY, # 32390 23 Q-LON FOAM SEAL 25198 SCHLEGEL CORP., # Q225T191 30 LOCKING HARDWARE (5 point lock) 32 BACK UP KIT 20 SHEET METAL (ALUMINUM)  - SHEET METAL (ALUMINUM) 6063-T6 ALUM 3916 6063-T6 ALUM 3917 6063-T6 ALUM 3918 6063-T6 ALUM 3919 6063-T6 ALUM 3919 6063-T6 ALUM 3910 6063-T6 ALUM 3918 6063-T6 ALUM 3919 6063-T6 ALUM 3910	٦
4 SILL PAN - SHEET METAL (ALUMINUM) 5 FRAME TEE BAR 3913 6063-T6 ALUM 6 SASH 3902 6063-T6 ALUM 7 1" GLASS STOP 3907 6063-T6 ALUM 8 ATLANTIC SEAL CLIP 3916 6063-T6 ALUM 9 CORNER BLOCK (CUT FROM 3906) 25167 6063-T6 ALUM 13 1-1/2" GLASS STOP 3908 6063-T6 ALUM 14 ATLANTIC NARROW FIXED ADAPTOR 3915 6063-T6 ALUM 15 ATLANTIC NARROW FIXED GLASS STOP ADAPTOR 3917 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., # Q225T196 24 Q-LON FOAM SEAL 25058 SCHLEGEL CORP., # Q375T196 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	1
5         FRAME TEE BAR         3913         6063-T6 ALUM           6         SASH         3902         6063-T6 ALUM           7         1" GLASS STOP         3907         6063-T6 ALUM           8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         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           24         Q-LON FOAM SEAL         25058         SCHLEGEL CORP., # Q375T190           30         LOCKING HARDWARE (5 point lock)         -         TRUTH           31         BUTT HINGE         -         SAVIO           33         HINGE BOLT, 8M X 48MM (FO	٦
6 SASH 3902 6063-T6 ALUM 7 1" GLASS STOP 3907 6063-T6 ALUM 8 ATLANTIC SEAL CLIP 3916 6063-T6 ALUM 9 CORNER BLOCK (CUT FROM 3906) 25167 6063-T6 ALUM 13 1-1/2" GLASS STOP 3908 6063-T6 ALUM 14 ATLANTIC NARROW FIXED ADAPTOR 3915 6063-T6 ALUM 15 ATLANTIC NARROW FIXED GLASS STOP ADAPTOR 3917 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 24 Q-LON FOAM SEAL 25058 SCHLEGEL CORP., # Q375T190 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	7
7         1"GLASS STOP         3907         6063-T6 ALUM           8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         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           24         Q-LON FOAM SEAL         25058         SCHLEGEL CORP., # Q375T190           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	
8         ATLANTIC SEAL CLIP         3916         6063-T6 ALUM           9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         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           24         Q-LON FOAM SEAL         25058         SCHLEGEL CORP., # Q375T190           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	7
9         CORNER BLOCK (CUT FROM 3906)         25167         6063-T6 ALUM           13         1-1/2" GLASS STOP         3908         6063-T6 ALUM           14         ATLANTIC NARROW FIXED ADAPTOR         3915         6063-T6 ALUM           15         ATLANTIC NARROW FIXED GLASS STOP ADAPTOR         3917         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           24         Q-LON FOAM SEAL         25058         SCHLEGEL CORP., # Q375T190           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	1
13       1-1/2" GLASS STOP       3908       6063-T6 ALUM         14       ATLANTIC NARROW FIXED ADAPTOR       3915       6063-T6 ALUM         15       ATLANTIC NARROW FIXED GLASS STOP ADAPTOR       3917       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         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	
13       1-1/2" GLASS STOP       3908       6063-T6 ALUM         14       ATLANTIC NARROW FIXED ADAPTOR       3915       6063-T6 ALUM         15       ATLANTIC NARROW FIXED GLASS STOP ADAPTOR       3917       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., # Q225T19         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T19         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	
15       ATLANTIC NARROW FIXED GLASS STOP ADAPTOR       3917       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         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	1
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         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	7
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         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	7
22       FOAM SEAL       25196       EMESBURY, # 32390         23       Q-LON FOAM SEAL       25189       SCHLEGEL CORP., # Q225T190         24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	7
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24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	7
24       Q-LON FOAM SEAL       25058       SCHLEGEL CORP., # Q375T190         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	,
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	
31         BUTT HINGE         -         SAVIO           32         BACK UP KIT         20535         SAVIO           33         HINGE BOLT, 8M X 48MM (FOR PANEL)         25026         SAVIO	S
33 HINGE BOLT, 8M X 48MM (FOR PANEL) 25026 SAVIO	I
	1
36 BACK UP PLATE FOR CORNER BLOCK 25025 -	٦
37 MACHINE SCREW NO 10-32, FHP 1.125" 25074 STAINLESS STEEL	7
38 MACHINE SCREW NO 10-32, FHP .75" 25073 STAINLESS STEEL	٦
39 HEX HEAD CAP SCREW .375-16, 2.250" 25175 STAINLESS STEEL	1
40 .375-16 SS. HEX NUT 25023 STAINLESS STEEL	
41 .375 SPLIT LOCK WASHER 25024 STAINLESS STEEL	7
42 .375-16 SS. HEX NUT 25176 STAINLESS STEEL	7
46 SCREW NO 10, UFHP .5" 20275 STAINLESS STEEL	٦
50 4" LONG SETTING BLOCK 18620 -	7
51 REINFORCEMENT (1" X 1") - 6061-T6 ALUM	7

DATE: 3/17/15
SCALE: N.T.S.
DWG. BY: JK
CHK. BY: LFS
DRAWING NO.:
L-7346

SHEET 14 OF 14

MATERIALS

OF

REVISIONS

PART OR ASSEMBLY: