



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

8148 N.W. 74th Avenue Medley, FL 33166 Phone: (305) 885-3328 Fax: (305) 885-3329 (888) 819-7877
 e-mail: clientservices@ftl-inc.com www.ftl-inc.com

Report Date: 9/24/2015
 Test Date: 8/28/2015
 Expiration Date: 8/28/2019
 Lab. Number: 8645
 Project Number: 15-5995
 Revision Number: 0

Condensation Performance Test Report

Manufacture: Coral Architectural Products

Address: 7704B Industrial Lane
 Tampa, Florida 33637

Specifications: AAMA 1503-2009: Voluntary Test Method for Thermal Transmittance and Condensation Resistance of Windows, Doors and Glazed Wall Sections

Product Description

Model Designation:	Series: FL550T Impact Flush Glaze Store Front
Overall Size:	2000mm (79") by 2000mm (79") high

Frame Construction

Frame Material, Color and Finish:	Painted gray aluminum alloy thermally broken
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Glazing Description

Layer 1:	1/4" clear glass *(Sungate 500 on surface #2)
Gap:	1/2" gap using a Super Spacer
Layer 2:	1/4" clear-0.060 SGP-1/4" clear

**as per manufacture

Glazing Method

Interior Condition:	EPDM
Exterior Condition:	EPDM

Gas Type	Filling Technique	Gas Fill Percentage
None	None	None

Daylight Opening

Left and Right Sections	35 3/4" by 73 3/8" high
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Weathers-Stripping

Quantity	Description	Location
None	None	None



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Hardware		
Quantity	Description	Location
None	None	None

Weep Holes		
Quantity	Description	Location
None	None	None

Reinforcement	
Material	Location
None	None

Dividers/Grids		
Grid Size	Material	Grid Pattern
None	None	None



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Measured and Calculated Test Data

Condensation Resistance Factor (CRF):

Warm side ambient air temperature (T_h):	69.80 F
Cold side ambient air temperature (T_c)	-0.31 F
Average of pre-specified frame temperature (FT_p)	41.8 F
Average of roving thermocouples (FT_r)	34.4 F

Calculated Weighting Factor

Frame Temperature (FT)	41.1 F
Glass Temperature (GT)	47.5 F
Condensation Resistance Factor of glass (CRF_G)	68
Condensation Resistance Factor of frame (CRF_f)	59

Thermal Transmittance (U_c):

Nominal sample Area	43.34 ft ²
Total measured input to calorimeter	1430.64 Btu/hr
Calorimeter correction	171.93 Btu/hr
Net specimen	1287.65 Btu/hr
Thermal Transmittance (U_c)	0.41 Btu/hr-ft ² ·F
Static pressure difference across test sample 15 mph dynamic perpendicular wind at exterior(P)	0.00 psf



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Temperature Data

Individual Average pre-specified Frame	
1	37.1
2	37.2
3	37.1
4	46.7
5	46.1
6	47.8
7	45.5
8	45.6
9	42.2
10	43.5
11	39.8
12	38.4
13	45.1
14	37.4
FT _p	42.1

Individual Average pre-specified Glass	
15	38.1
16	51.7
17	51.5
18	50.4
19	51.6
20	41.9
GT	47.5

Individual Average Frame Cold Point (Roving)	
21	32.1
22	34.2
23	35.6
24	35.7
FT _r	34.4



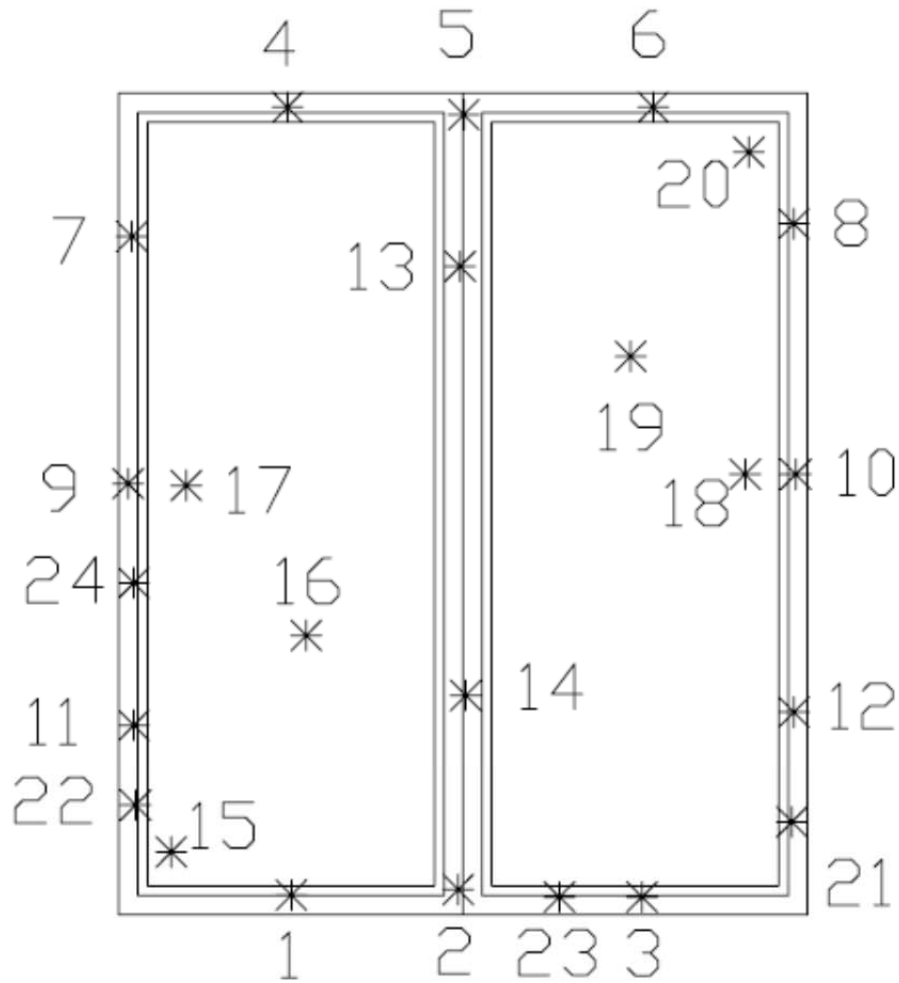
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Thermocouple Location Diagram





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Test Duration

1. The environmental systems were started at 08:15 hours on 8/27/2015.
2. The test parameters were considered stable from 04:15 hours on 8/28/2015 to 08:15 hours on 8/28/2015.

Glazing Deflection (in.)	Left Section	Right Section
Gap width upon receipt of sample in laboratory	1/2"	1/2"
Gap width at laboratory ambient conditions on day of testing	1/2"	1/2"
Center of gap at conclusion of test	7/16"	7/16"

Remarks
<p>The sample was inspected for the formation of frost or condensation, which may influence the surface temperature measurements. The sample showed no evidence of condensation/frost at the conclusion of the test.</p> <p>The calibration of Fenestration Testing Laboratory's "thermal test chamber" was conducted in June 2015.</p> <p>Drawings referenced in this document are an integral part of this report, therefore, are required when distributing this test report. Test results obtained represent the actual value of the tested specimens and do not constitute opinion, endorsement or certification by this laboratory.</p> <p>This test report is considered the exclusive property of the client named herein and is applicable to the sample tested. This report may not be reproduced without the approval of Fenestration Testing Laboratory, Inc and if so must be in full.</p> <p>The sample was sealed with silicone on the interior and tested per Section 9.3.4 for air infiltration. The testing described in this test report was conducted in accordance with AAMA 1503 requirements.</p>

Revision History Table			
Revision	Description	Author	Effective Date
0	Initial Release	Jose Sanchez	9/24/2015

FENESTRATION TESTING LABORATORY, INC.

Jose Sanchez
Jose Sanchez
Test Performed by

Jose Sanchez
Person - in- Responsible- Charge



Quality Accuracy Assurance

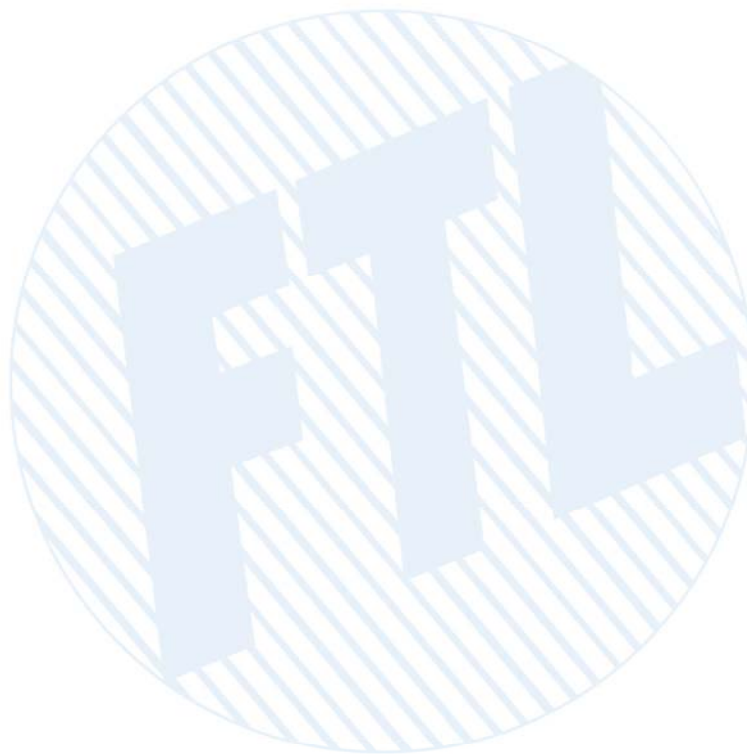
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APPENDIX

Fenestration Product Drawings and Bill of Material



FL550T AAMA 507 NFR CMAST SUBMITTAL DRAWINGS

INDEX TO DRAWINGS	
1	INDEX TO DRAWINGS AND NOTES
2	STANDARD FRAMING ELEVATION
3	STANDARD FRAMING DETAILS
4	STANDARD FRAMING DETAILS
5	BILL OF MATERIALS
6	DIE DRAWINGS

Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8645
 Date: 11/24/2015
 Initials: JS

REV	BY	DATE	DESCRIPTION

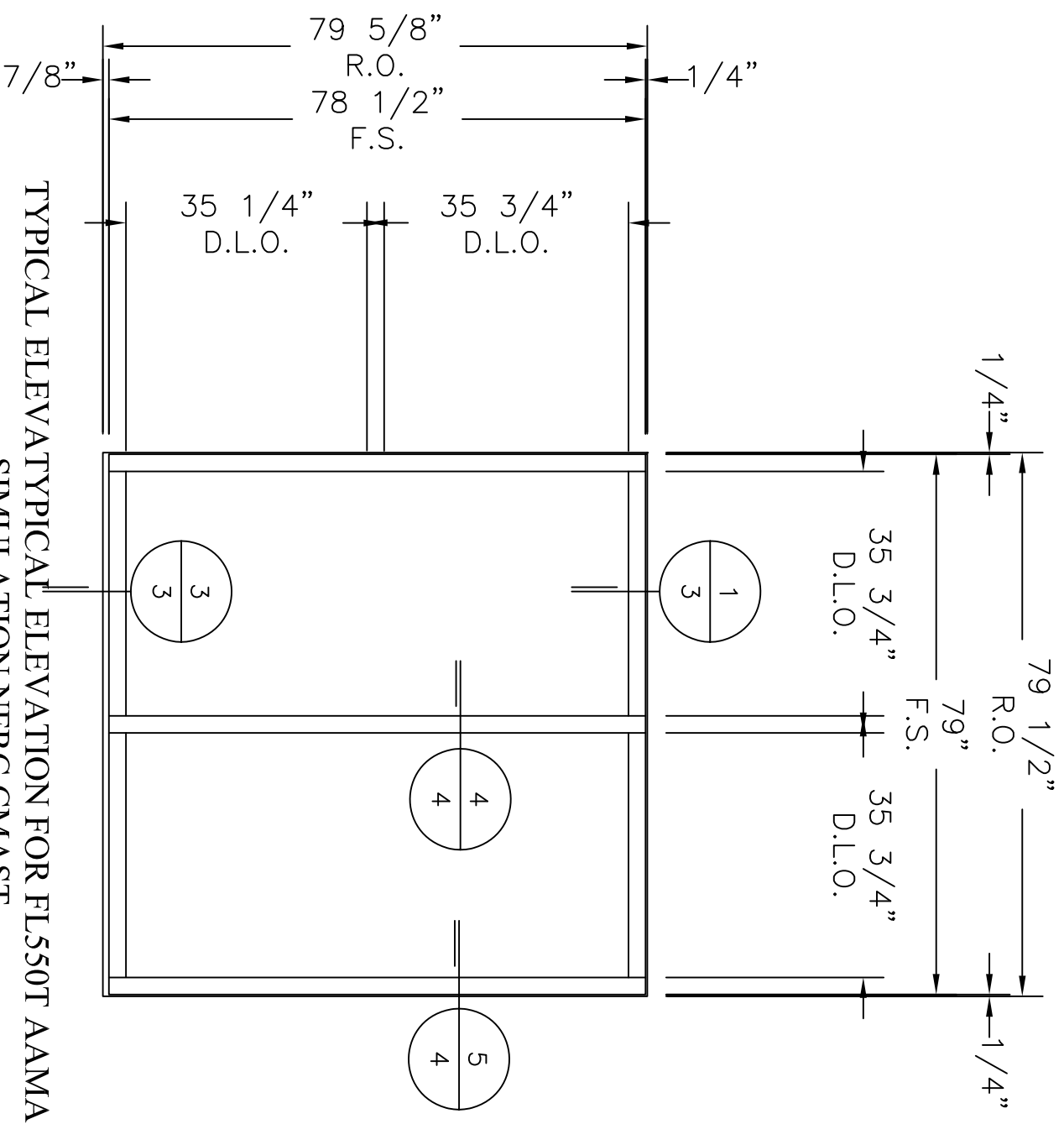
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**FL550T AAMA 507 NFR CMAST SUBMITTAL
DRAWINGS**

INDEX TO DRAWINGS AND NOTES

PROJECT NO. _____	
DRAWN <i>MJ</i>	DATE 2/20/2014
CHECKED ---	APPROVED ---
SHEET 1	

Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8645
 Date: 11/24/2015
 Initials: JS



TYPICAL ELEVATION FOR FL550T AAMA 507
 SIMULATION NFRC CMAST
 GLASS TYPE: 1/4" T SUNGATE LOW E ON SURFACE 2 x 1/2" AS x 1/4"
 CL T X.090 SENTRY GLASS x 1/4" CL T

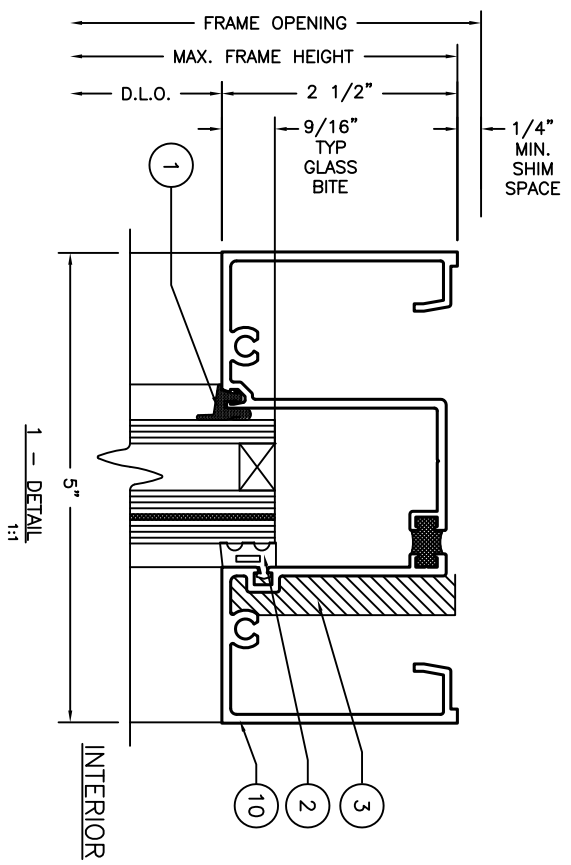
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△	WS	10-6	Removed horiz

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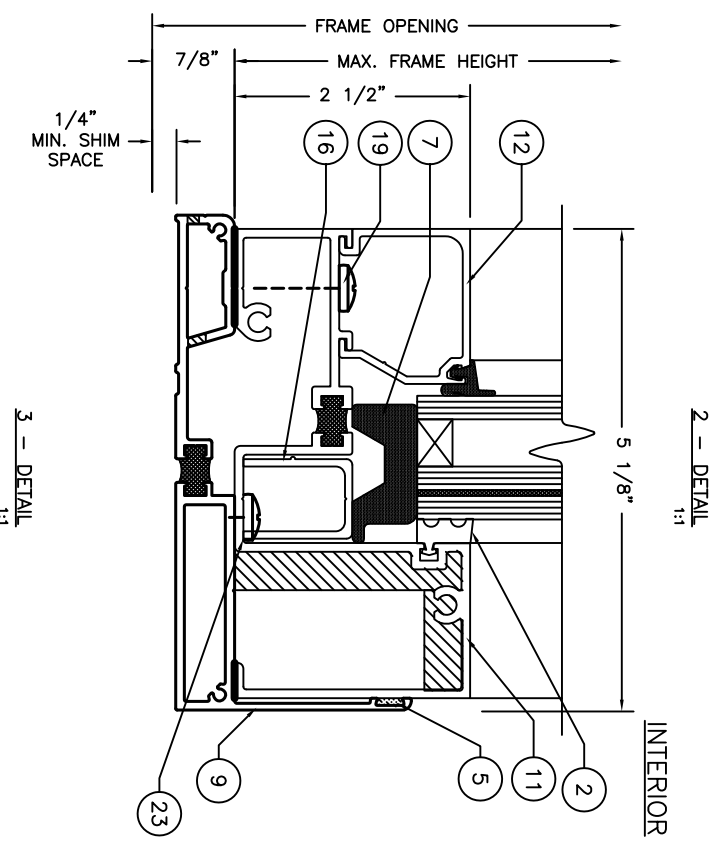
FL550T AAMA 507 NFRC CMAST SUBMITTAL
 DRAWINGS

STANDARD FRAMING ELEVATION

PROJECT NO.	---
DRAWN	DATE
MJ	10/6/2015
CHECKED	APPROVED
---	---
SHEET	



Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8645
 Date: 11/24/2015
 Initials: JS



3 - DETAIL 1:1

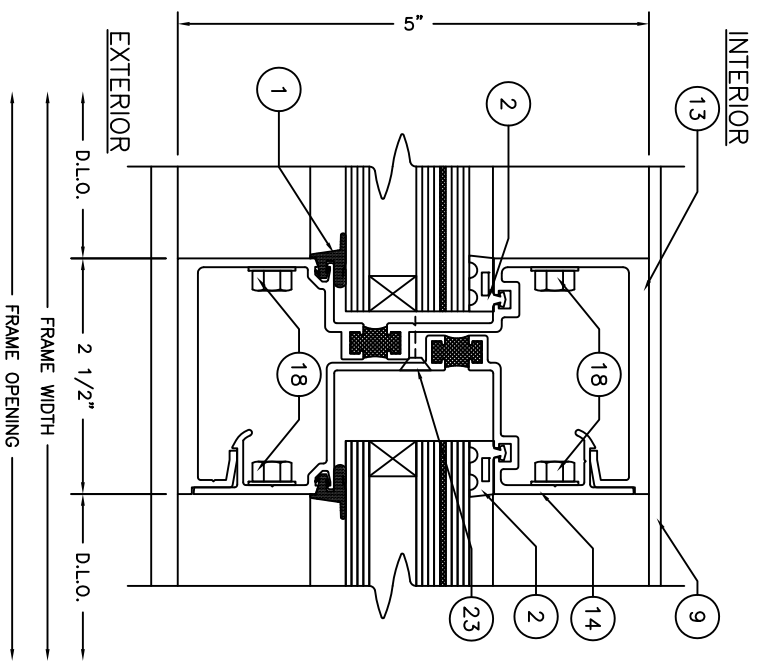
REV	BY	DATE	DESCRIPTION
---	---	---	-----
△	WS	07-OCT-15	FIXED DETAILS ADDED CALL OUT FOR SCREWS

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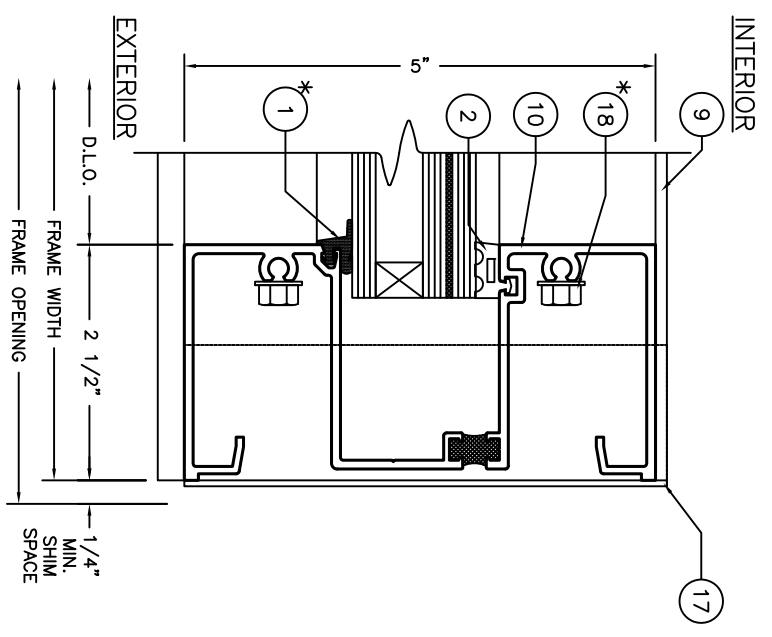
FL550T AAMA 507 NFRC CMAST SUBMITTAL DRAWINGS

STANDARD FRAMING DETAILS

PROJECT NO.	---
DRAWN	DATE
MJ	10/7/2015
CHECKED	APPROVED
---	---
SHEET	3



4 - DETAIL
1:1



5 - DETAIL
1:1

Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8645
 Date: 11/24/2015
 Initials: JS

REV	BY	DATE	DESCRIPTION
WS	07-OCT-15		REMOVED SUBSTRATES

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FL550T AAMA 507 NFRC CMAST SUBMITTAL DRAWINGS

STANDARD FRAMING DETAILS

PROJECT NO.	---
DRAWN	DATE
MJ	2/20/2014
CHECKED	APPROVED
---	---
SHEET	4

BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1	NG1	EXTERIOR GLAZING GASKET	0.120 SPACE	EPDM	VARIES	
2	NG15	INTERIOR SPACER GASKET	0.250 SPACE	EPDM	VARIES	
3	SM5601	JOINT SEALANT TAPE	0.500 X 0.125 X VARIES	BUTYL	SCHNEE-MOOREHEAD	
5	995	SILICONE - GLASS TO METAL	FILL SPACE	SILICONE	DOW CORNING	GLASS TO METAL AND INTERNAL
6	FL515-1	FLAT FILLER	0.681 X 4.658 X 0.070	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
7	SB15	SETTING BLOCK @ SILL & HORIZONTAL	0.687 X 1.468 X 4.000	EPDM	VARIES	2 PER LITE
8	WD300-1	WATER DIVERTER	1.358 X 1.344 X 4.000	INJECTION MOLDED PLASTIC	CORAL INDUSTRIES, INC.	@ EACH END OF HORIZONTAL
9	FL539T	SUBSILL FLASHING	2.620 X 5.402 X 0.084	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
10	FL571T	HEAD OR WALL JAMB	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
11	FL572T	SILL OR HEAD	2.500 X 4.980 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
12	FL553	GLASS STOP	1.250 X 1.646 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
13	FL574T	STD. VERTICAL MULLION	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
14	FL575T	OPEN BACK MULLION FILLER	0.681 X 4.670 X 0.080	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
15	FL576T	INTERMEDIATE HORIZONTAL	2.500 X 4.980 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
16	CS500-1	SETTING CHAIR	1.156 X 0.844 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
17	ED519-1	SILL FLASHING END DAM	2.500 X 1.000 X 0.062	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
18	AS16	FASTENER	#14 X 1" HHSTS	STEEL	VARIES	TYP. SPLINE SCREW VERTICAL/HORIZONTAL JOINTS
19	MISC	FASTENER	#12 X 1 1/4" PPHSMS	S. STEEL	VARIES	ANCHOR
20	AS21	FASTENER	#6 X 1/4" PPH	STEEL	VARIES	ANCHOR(17) (ED519-1) TO(9)(FL539T)
23	MISC	FASTENER	#12 X 1/2" PPHSMS	S. STEEL	VARIES	ANCHOR

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REV	BY	DATE	DESCRIPTION

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FL550T AAMA 507 NFRC CMAST SUBMITTAL DRAWINGS

BILL OF MATERIALS

PROJECT NO. --	
DRAWN MJ	DATE 2/20/2014
CHECKED ---	APPROVED ---
SHEET 5	