



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: 8/25/2015
 Expiration Date: 8/25/2019
 Lab. Number: 8644
 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: PW257 Impact Curtain Wall
Overall Size:	2000mm (79") by 2000mm (79") high

Frame Construction

Frame Material, Color and Finish:	Painted gray aluminum alloy non 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-0.090 SGP-1/4" clear

**as per manufacture

Glazing Method

Interior Condition:	Silicone and vinyl gasket
Exterior Condition:	EPDM

Gas Type	Filling Technique	Gas Fill Percentage
None	None	None

Daylight Opening

Left and Right Sections	35 3/4" by 74" high
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Weathers-Stripping

Quantity	Description	Location
Single row	**EPDM thermal isolator gasket	Behind each pressure plate
Single row	**EPDM gasket	Between the frame head and pressure plate

**as per manufacture



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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)	43.2 F
Average of roving thermocouples (FT_r)	35.8 F

Calculated Weighting Factor

Frame Temperature (FT)	42.5 F
Glass Temperature (GT)	46.8 F
Condensation Resistance Factor of glass (CRF_G)	67
Condensation Resistance Factor of frame (CRF_f)	61

Thermal Transmittance (U_c):

Nominal sample Area	43.34 ft ²
Total measured input to calorimeter	1533.04 Btu/hr
Calorimeter correction	119.26 Btu/hr
Net specimen	1413.78 Btu/hr
Thermal Transmittance (U_c)	0.47 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	42.7
2	43.1
3	43.2
4	49.8
5	48.8
6	49.8
7	47.9
8	47.8
9	46.4
10	44.1
11	43.5
12	45.1
13	40.2
14	48.6
FT _p	43.2

Individual Average pre-specified Glass	
15	34.1
16	51.7
17	51.5
18	49.8
19	52.4
20	41.2
GT	46.8

Individual Average Frame Cold Point (Roving)	
21	33.8
22	35.4
23	36.8
24	37.1
FT _r	35.8



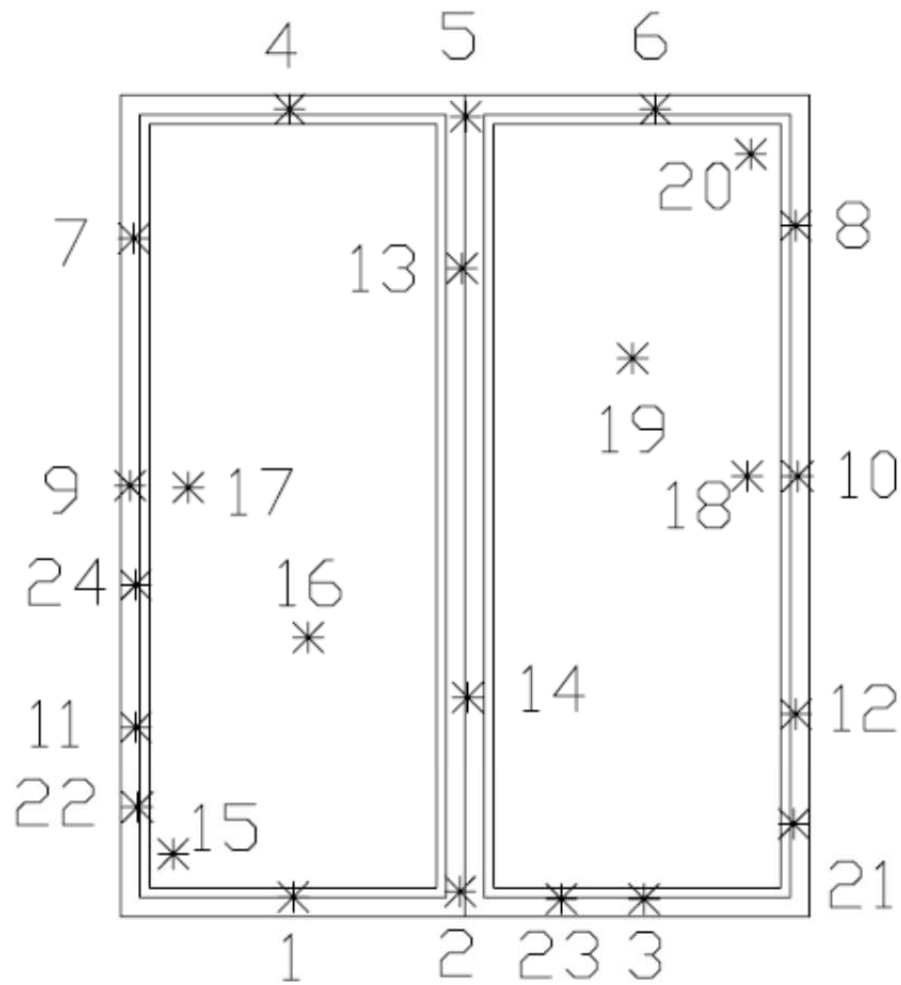
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Thermocouple Location Diagram





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Test Duration

1. The environmental systems were started at 15:34 hours on 8/24/2015.
2. The test parameters were considered stable from 06:34 hours on 8/25/2015 to 10:34 hours on 8/25/2015.

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	3/8"	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

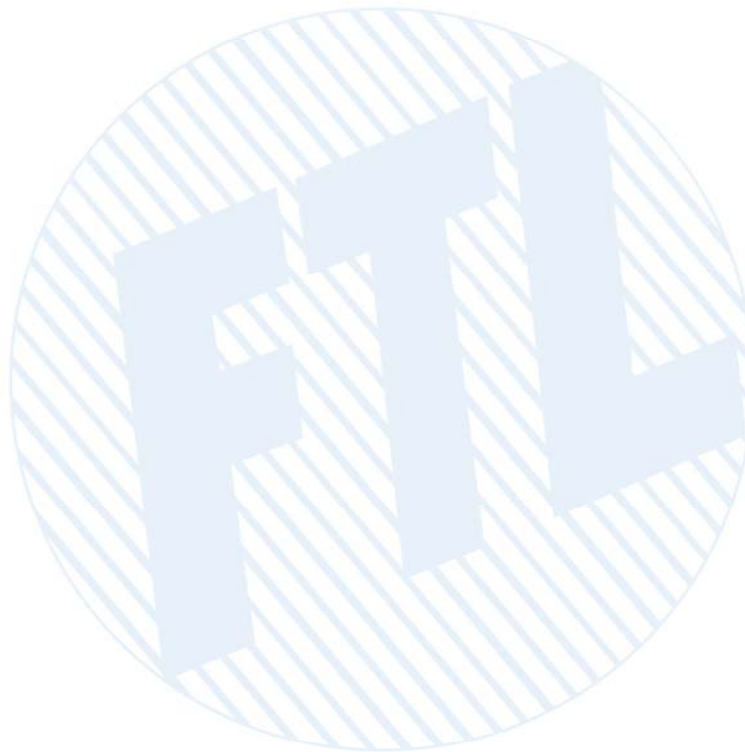
Fenestration Testing Laboratory, Inc.

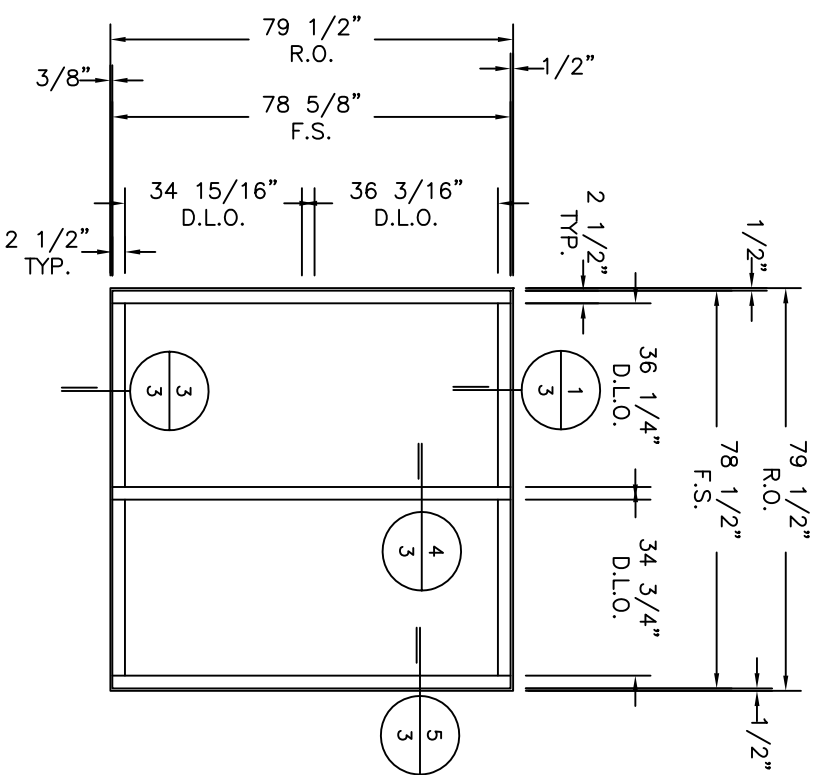
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APPENDIX

Fenestration Product Drawings and Bill of Material





TYPICAL ELEVATION FOR PW257
AAMA 507 NFRC CMAST

GLASS TYPE 1/4" T x SUNGATE 500 LOW E SURFACE 2
x 1/2" AS x 1/4" CL T x .090 Sentry Glas x 1/4" CL T

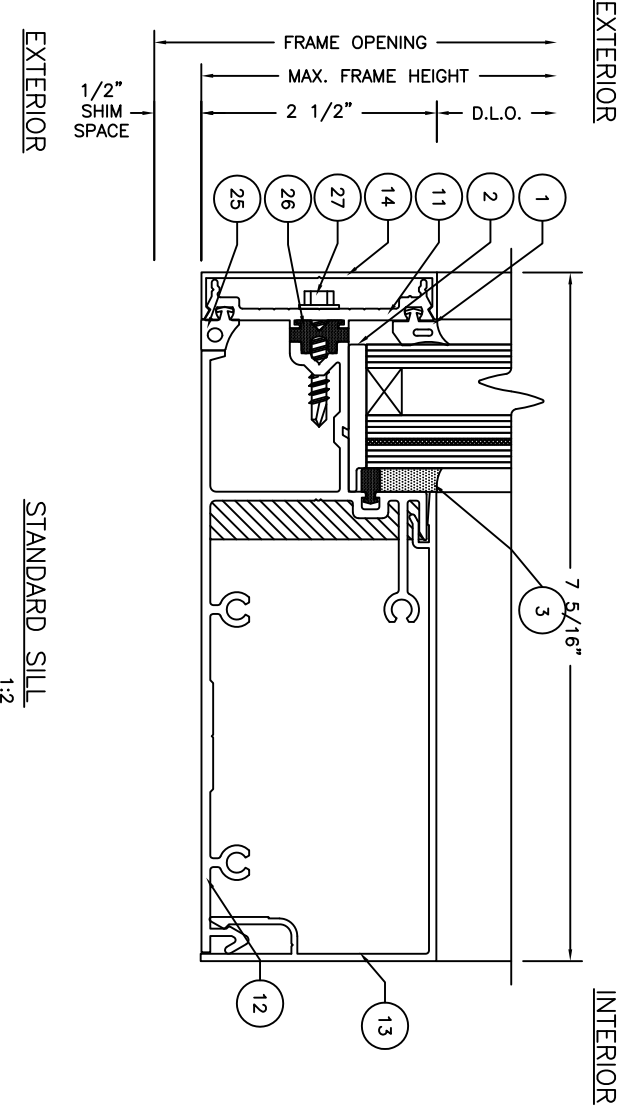
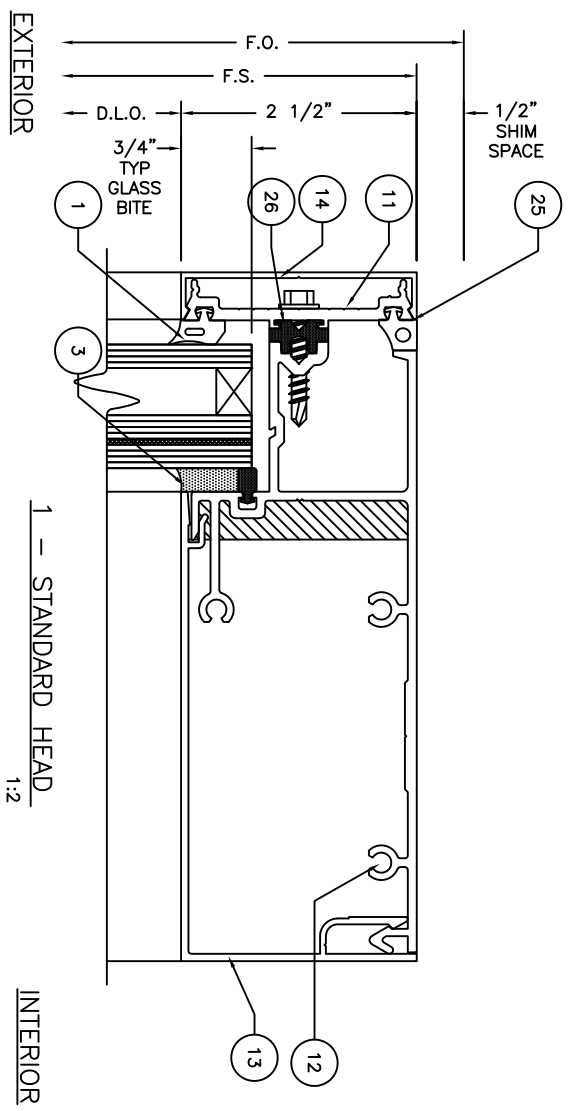
Tested Sample complies with this detail except where noted
Laboratory Report Number: 8644
Date: 11/24/2015
Initials: JS

REV	BY	DATE	DESCRIPTION
WS	---	6-OCT-15	Removed Horiz.
---	---	---	-----

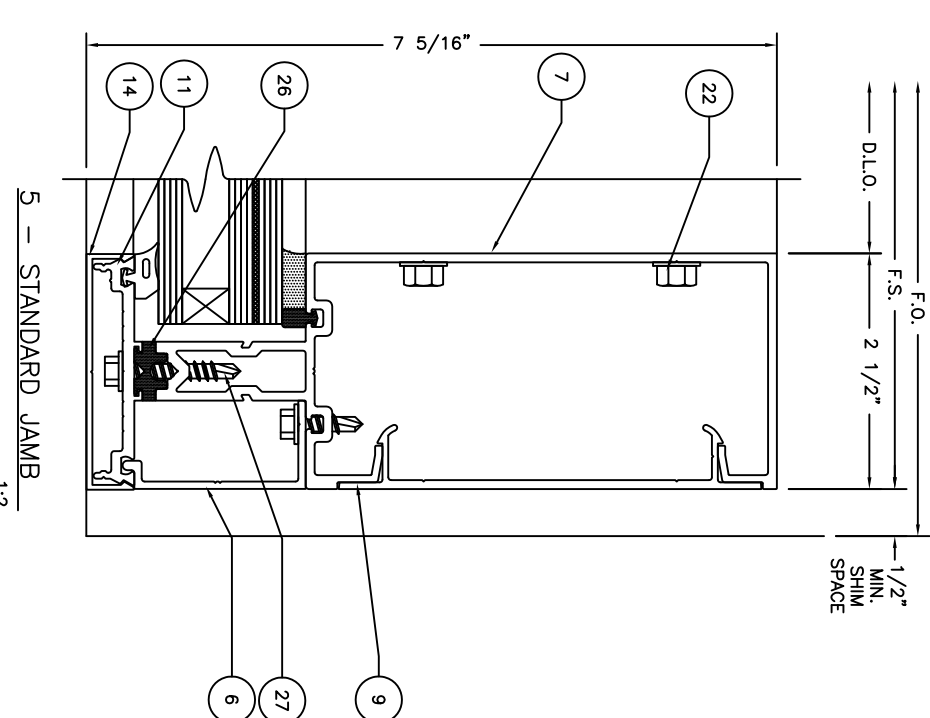
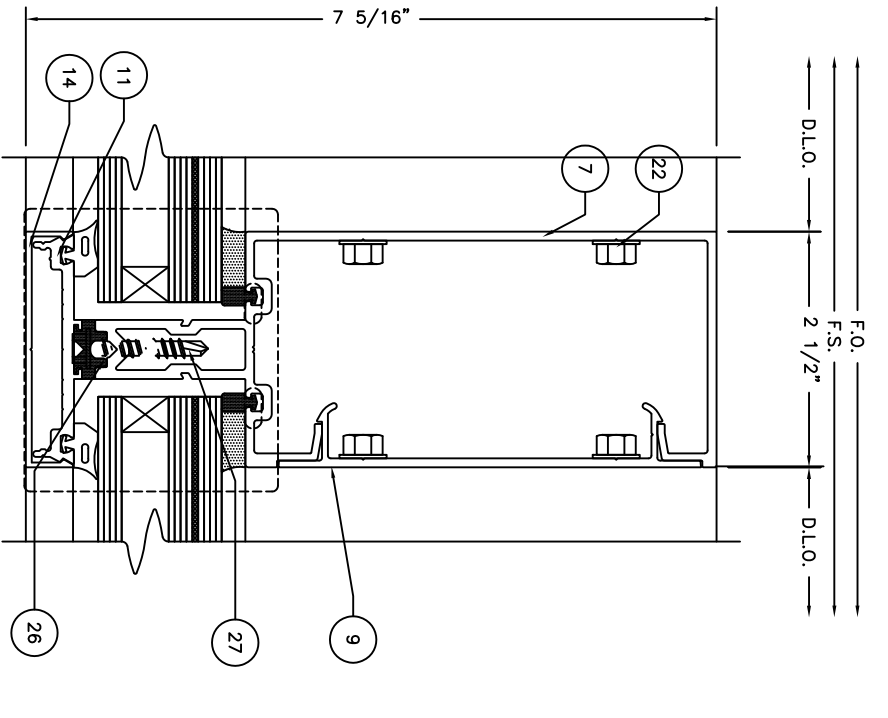
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PW257 AAMA 507
NFRC CMAST
SUBMITTAL DRAWINGS
FRAMING ELEVATION

PROJECT NO. AAMA PW257	DATE 10/7/2015
DRAWN M7	APPROVED
CHECKED	---
SHEET	---



Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8644
 Date: 11/24/2015
 Initials: JS



REV	BY	DATE	DESCRIPTION
WS	6 OCT 15		Removed substrates and anchors not used

**PW257 AAMA 507
 NFRC CMAST
 SUBMITTAL DRAWINGS**
 STANDARD FRAMING DETAILS

PROJECT NO. AAMA PW257	DATE 10/6/2015
DRAWN M7	APPROVED
CHECKED	
SHEET 3	

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BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1	NG10	GLAZING GASKET	.561 x .350	EPDM	VARIES	USED ON EXT. AND INT.
2	SB18	SETTING BLOCK	0.188 X 1.561 X 0.084	EPDM	VARIES	
3	995	STRUCTURAL SEALANT	VARIABLE SPACE	SILICONE	DOW	
7	PW650	VERTICAL MULLION/JAMB	2.50 X 5 X .078	6063-T6 ALUMINIUM	CORAL	
8	PW655	HORIZONTAL MULLION	6.480 X 2.390	6063-T6 ALUMINIUM	CORAL	
9	PW202	VERTICAL FILLER	4.484 X .681	6063-T6 ALUMINIUM	CORAL	
11	PW204	PRESSURE BAR	2.427 X .433	6063-T6 ALUMINIUM	CORAL	
12	PW652	HEAD/SILL JAMB	2.390 X 6.387 X .078	6063-T6 ALUMINIUM	CORAL	
13	PW203	SILL/HEAD/HORIZONTAL COVER	2.50 X 4.460	6063-T6 ALUMINIUM	CORAL	
14	PW205	PRESSURE PLATE COVER	2.50 X .500	6063-T6 ALUMINIUM	CORAL	
22	AS16	TYPICAL SPLINE SCREW	#14 X 1" HHSTS	STEEL	VARIES	TYPICAL SPLINE SCREW
25	NG11	GASKET	.340 x .403	EPDM	VARIES	
26	NG12	ISOLATER GASKET	.625 x .35	EPDM	VARIES	
27	AS32	SCREW	#12 x 1-1/4"	ZINC PLATED STEEL	VARIES	USED AT HEAD, SILL, AND HORIZONTAL
NA	AS53	HEX CAP BOLT SCREW	1/4-20 X 3"	STAINLESS STEEL	VARIES	
NA	AS54	FLAT WASHER	1/4"	STAINLESS STEEL	VARIES	
NA	AS55	LOCK NUT WITH NYLON INSERT	1/4"-20	STAINLESS STEEL	VARIES	

Tested Sample complies with this detail except where noted
 Laboratory Report Number: 8644
 Date: 11/24/2015
 Initials: JS

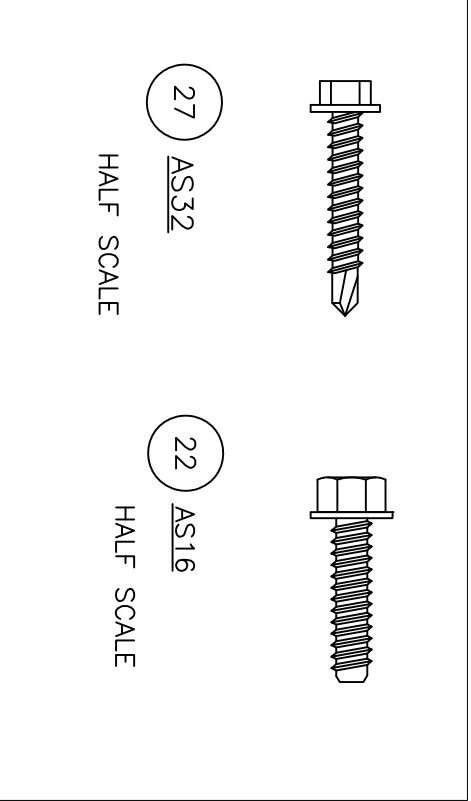
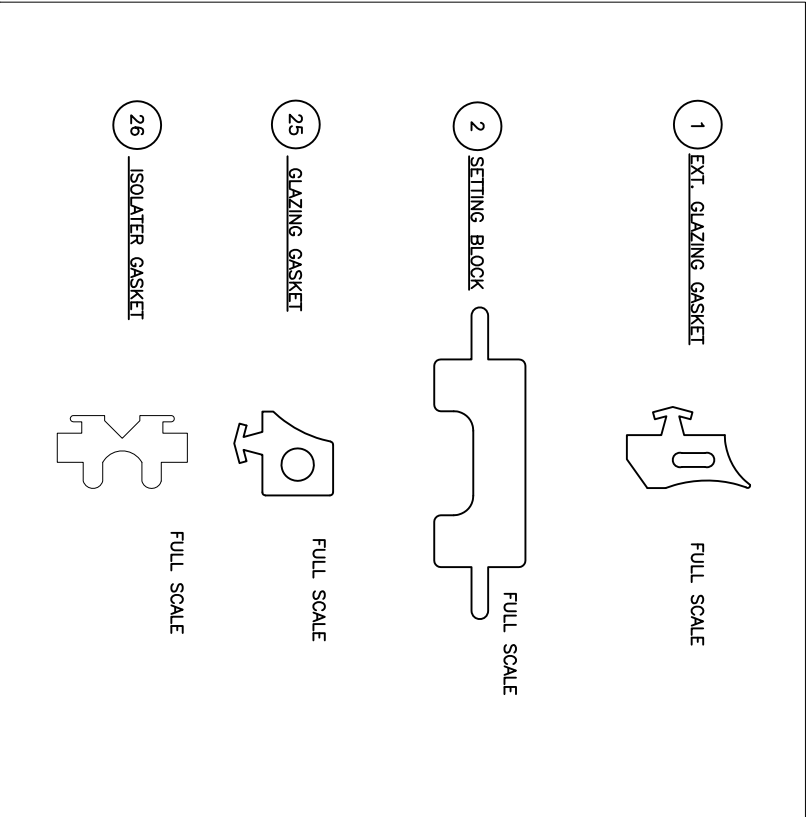
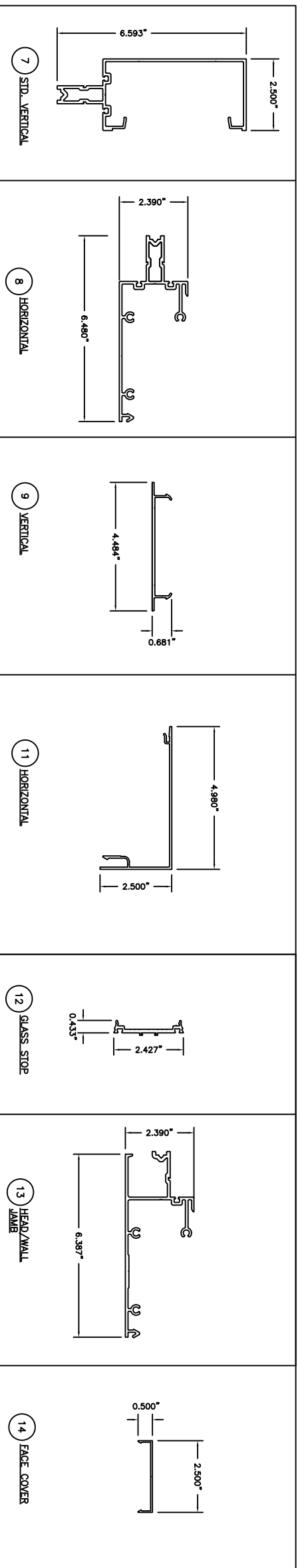
**PW257 AAMA 507
 NFRC CMAST
 SUBMITTAL DRAWINGS**

BILL OF MATERIALS

REV	BY	DATE	DESCRIPTION
WS	6	OCT 15	Added item 3 (995) and removed thru bolts

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PROJECT NO. AAMA PW257	
DRAWN M7	DATE 06-OCT-15
CHECKED	APPROVED
SHEET	4



Tested Sample complies with this detail except where noted
 Laboratory Report Number: 86444
 Date: 11/24/2015
 Initials: JS

REV	BY	DATE	DESCRIPTION

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**PW257 AAMA 507
 NFRC CMAST
 SUBMITTAL DRAWINGS**
 DIE DRAWINGS

PROJECT NO. AAMA PW257	DATE 5/5/2014
DRAWN MJ	CHECKED ---
CHECKED ---	APPROVED ---
SHEET 5	