

**AAMA 501-05 AND
ASTM E 1886 / ASTM E 1996
TEST REPORT**

Rendered to:

CORAL ARCHITECTURAL PRODUCTS

**SERIES/MODEL: PW256 Impact-Resistant Curtain Wall System
PRODUCT TYPE: Aluminum Curtain Wall with 90° Corner**

Title	Summary of Results
Design Pressure	3840 Pa (80.25 psf)
Air Infiltration	<0.05 L/s/m ² (<0.01 cfm/ft ²)
Water Penetration Resistance Test Pressure	960 Pa (20.06 psf)
Uniform Load Structural Test Pressure	±5760 Pa (±120.38 psf)

Test Completion Date: 03/26/09

This report contains in its entirety:

Cover Page: 1 page
Report Body: 10 pages
Test Equipment: 1 page
Photograph: 1 page
Sketches: 2 pages
Drawings: 16 pages

Reference must be made to Report No. 85731.01-401-44, dated 06/23/09 for complete test specimen description and data.

AAMA 501-05 and ASTM E 1886 / ASTM E 1996
TEST REPORT

Rendered to:

CORAL ARCHITECTURAL PRODUCTS
310 Rice Mine Road
Tuscaloosa, Alabama 35406

Report No.: 85731.01-401-44
Test Dates: 03/25/09
And: 03/26/09
Report Date: 06/23/09
Expiration Date: 03/26/13

Project Summary: Architectural Testing, Inc. was contracted by Coral Architectural Products to perform testing on a Series/Model PW256 Impact-Resistant Curtain Wall System, aluminum curtain wall with 90° corner at the Architectural Testing, Inc. test facility in Tampa, Florida. Test specimen description and results are reported herein. The sample was provided by the client.

Test Specifications: The test specimen was evaluated in accordance with the following:

AAMA 501-05, Methods of Tests for Exterior Walls.

ASTM E 1886-05, Standard Test Method for Performance of Exterior Windows, Curtain Walls, Doors and Storm Shutters Impacted by Missile(s) and Exposed to Cyclic Pressure Differentials.

ASTM E 1996-05, Standard Specification for Performance of Exterior Windows, Glazed Curtain Walls, Doors and Storm Shutters Impacted by Wind Borne Debris in Hurricanes.

Test Specimen Description:

Series/Model: PW256 Impact-Resistant Curtain Wall System

Product Type: Aluminum Curtain Wall with 90° Corner

Test Specimen Description: (Continued)

Overall Size: Long side: 5575 mm (219-1/2") wide by 3823 mm (150-1/2") high
Short side: 1610 mm (63-3/8") wide by 3823 mm (150-1/2") high

Bottom Daylight Opening Size (3): 1454 mm (57-1/4") wide by 2426 mm (95-1/2") high

Bottom Daylight Opening Size (2): 1156 mm (45-1/2") wide by 2426 mm (95-1/2") high

Top Daylight Opening Size (3): 1454 mm (57-1/4") wide by 1175 mm (46-1/4") high

Top Daylight Opening Size (2): 1156 mm (45-1/2") wide by 1175 mm (46-1/4") high

Overall Area: 27.5 m² (295.6 ft²)

Finish: All aluminum was anodized

Frame Construction: The frame was constructed of extruded aluminum. The corners and vertical mullions were straight cut and secured with three #14 x 1" square head screws located through jambs into the head and sill screw bosses. The horizontal mullions were secured with the same screws located through the jambs and vertical mullions into the horizontal mullion screw bosses. Aluminum 2-1/2" wide pressure plates were applied to secure the exterior of the glass and were secured with #12 x 1" self-drilling screws located 3" from ends and 14" on center. The 90° corner utilized an aluminum snap-in glazing tee and a corner pressure bar.

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
3/4" wide by 1/4" high custom dry glazed vinyl gasket	1 Row	Behind all glass
5/8" wide by 1/4" high custom vinyl exterior glazing gasket	2 Row	Each side of exterior pressure plates
5/8" wide by 1/4" high custom vinyl pressure plate setting gasket	1 Row	Center of all pressure plates

Drainage: No drainage utilized.

Hardware: No hardware was utilized.

Test Specimen Description: (Continued)

Glazing Details: The five bottom lites utilized a 9/16" overall thickness laminated glass consisting of two sheets of 1/4" heat strengthened glass and a 0.075" thick Vanceva interlayer. The five top lites utilized a 9/16" overall thickness laminated glass consisting of two sheets of 1/4" heat strengthened glass and a 0.120" thick UVEKOL® type "S" interlayer. All the lites were exterior glazed onto a custom vinyl strip and secured with aluminum pressure bars. The pressure bars were secured with #12 x 1" self-drilling screws located 3" from ends and 14" on center. The lites utilized a typical 3/4" glazing bite.

Reinforcement: The vertical mullions utilized a 4-1/2" steel "C" channel with a 3-3/4" wide by 1/2" thick flat bar welded to the "C" channel. The reinforcement ran the length of the vertical mullion and was secured with 1/4-20 x 3" through bolts located 1" from head, sill and horizontal mullion through the vertical mullion and secured on the opposite side with a nut and lock washer. The vertical corner mullion utilized a 4-1/2" steel "C" channel and was secured with 1/4-20 x 3" through bolts located 1" from head, sill and horizontal mullion through the vertical mullion and secured on the opposite side with a nut and lock washer.

Installation: The curtain walls were secured into a 10" wide by 2-1/2" thick steel "C" channel buck and secured with 1/2"-13 x 2" bolt with washer and nut. The bolts were located 4" from head and sill ends and 4" from vertical mullions through the head into the steel buck. A bolt was also added at the vertical mullion through the jambs into the steel buck. The sill was secured with 1/2" diameter by 5" long concrete bolts located 4" from jambs and vertical mullions through the sill into the concrete floor. Silicone was utilized around the exterior perimeter.

Test Results: The temperature during testing was 22°C (71°F). The results are tabulated as follows:

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.2	Preload at 50% of Design per ASTM E 330 (Loads were held for 30 seconds) 1920 Pa (40.13 psf) (positive)		
2.3	Air Leakage Resistance per ASTM E 283 75 Pa (1.6 psf) 300 Pa (6.2 psf)	<0.05 L/s/m ² (<0.01 cfm/ft ²) <0.05 L/s/m ² (<0.01 cfm/ft ²)	0.5 L/s/m ² (0.06 cfm/ft ²) max. 0.5 L/s/m ² (0.06 cfm/ft ²) max.
2.4	Water Penetration Resistance per ASTM E 331 960 Pa (20.06 psf)	No leakage	No leakage

Test Results: (Continued)

<u>Paragraph</u>	<u>Title of Test - Test Method</u>	<u>Results</u>	<u>Allowed</u>
2.9	Uniform Load Deflection per ASTM E 330 Loads were held for 30 seconds		
	Deflections taken on the horizontal mullion 2nd lite from 90° corner		
	3840 Pa (80.25 psf) (positive)	2.03 mm (0.08")	6.6 mm (0.26") max.
	3840 Pa (80.25 psf) (negative)	2.54 mm (0.10")	6.6 mm (0.26") max.
	Deflections taken on the middle vertical mullion		
	3840 Pa (80.25 psf) (positive)	17.5 mm (0.69")	21.1 mm (0.83") max.
	3840 Pa (80.25 psf) (negative)	20.6 mm (0.81")	21.1 mm (0.83") max.
	Deflections taken on the left vertical mullion, no mull cap		
	3840 Pa (80.25 psf) (positive)	17.0 mm (0.67")	21.1 mm (0.83") max.
	3840 Pa (80.25 psf) (negative)	18.5 mm (0.73")	21.1 mm (0.83") max.
	Deflections taken on the vertical corner mullion		
	3840 Pa (80.25 psf) (positive)	0.51 mm (0.02")	21.1 mm (0.83") max.
	3840 Pa (80.25 psf) (negative)	1.27 mm (0.05")	21.1 mm (0.83") max.
2.10	Water Penetration Resistance per ASTM E 331 960 Pa (20.06 psf)	No leakage	No leakage
2.11	Uniform Load Structural per ASTM E 330 Loads were held for 30 seconds		
	Permanent sets taken on the horizontal mullion 2nd lite from 90° corner		
	5760 Pa (120.38 psf) (positive)	1.5 mm (0.06")	2.3 mm (0.09") max.
	5760 Pa (120.38 psf) (negative)	1.5 mm (0.06")	2.3 mm (0.09") max.
	Permanent sets taken on the middle vertical mullion		
	5760 Pa (120.38 psf) (positive)	1.8 mm (0.07")	7.4 mm (0.29") max.
	5760 Pa (120.38 psf) (negative)	3.1 mm (0.12")	7.4 mm (0.29") max.
	Permanent sets taken on the left vertical mullion, no mull cap		
	5760 Pa (120.38 psf) (positive)	1.5 mm (0.06")	7.4 mm (0.29") max.
	5760 Pa (120.38 psf) (negative)	2.0 mm (0.08")	7.4 mm (0.29") max.
	Permanent sets taken on the vertical corner mullion		
	5760 Pa (120.38 psf) (positive)	0.5 mm (0.02")	7.4 mm (0.29") max.
	5760 Pa (120.38 psf) (negative)	0.8 mm (0.03")	7.4 mm (0.29") max.

Note: See Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

ASTM E 1886, Large Missile Impact

Conditioning Temperature: 23.3°C (74°F)

Missile Weight: 4173 g (9.2 lbs)

Missile Length: 2.4 m (8' 0")

Muzzle Distance from Test Specimen: 5.2 m (17 ft.)

Test Unit #1

Impact #1: Missile Velocity: 15.4 m/s (50.5 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: 2nd bottom lite from corner, center of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #2: Missile Velocity: 15.0 m/s (49.3 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: 2nd bottom lite from corner, upper right corner of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #3: Missile Velocity: 15.4 m/s (50.4 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: 1st bottom lite from corner, lower left corner of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #4: Missile Velocity: 15.1 m/s (49.4 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: 1st bottom lite from corner, center of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #5: Missile Velocity: 15.2 m/s (49.7 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Short side bottom lite, upper right corner of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Test Results: (Continued)

ASTM E 1886, Large Missile Impact

Impact #6: Missile Velocity: 15.8 m/s (51.9 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Short side bottom lite, midspan of glass

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #7: Missile Velocity: 15.3 m/s (50.1 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Horizontal mullion, midspan

Observations: Missile hit target area, dented aluminum horizontal mullion

Results: Pass

Impact #8: Missile Velocity: 15.2 m/s (49.9 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Center vertical mullion, midspan of mullion

Observations: Missile hit target area, dented aluminum vertical mullion

Results: Pass

Impact #9: Missile Velocity: 15.3 m/s (50.1 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Vertical mullion without mull cap, midspan of mullion

Observations: Missile hit target area, fractured lite

Results: Pass

Impact #10: Missile Velocity: 15.2 m/s (49.7 fps); orientation within $\pm 5^\circ$ of vertical

Impact Area: Corner vertical mullion, midspan of mullion

Observations: Missile hit target area, dented aluminum corner

Results: Pass

Note: See Architectural Testing Sketch #2 for impact locations.

Test Results: (Continued)

ASTM E 1886, Air Pressure Cycling

Test Unit #1

Design Pressure: ±80.0 Pa (±80.0 psf)

POSITIVE PRESSURE

Pressure Range Pa (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator mm (inch)					
			#1	#2	#3	#4	#5	#6
766 to 1915 (16 to 40)	3500	4.17	4.57 (0.18)	15.5 (0.61)	4.32 (0.17)	2.54 (0.10)	12.7 (0.50)	3.30 (0.13)
0 to 2298 (0 to 48)	300	10.0	6.10 (0.24)	17.8 (0.70)	5.33 (0.21)	2.54 (0.10)	14.0 (0.55)	3.56 (0.14)
1915 to 3064 (40 to 64)	600	2.60	6.86 (0.27)	20.8 (0.82)	6.35 (0.25)	2.54 (0.10)	15.8 (0.62)	3.56 (0.14)
1149 to 3830 (24 to 80)	100	8.17	6.86 (0.27)	24.1 (0.95)	6.60 (0.26)	3.05 (0.12)	19.8 (0.78)	4.57 (0.18)
			Permanent Set					
			2.54 (0.10)	5.84 (0.23)	2.03 (0.08)	1.02 (0.04)	2.03 (0.08)	1.52 (0.06)

NEGATIVE PRESSURE

Pressure Range Pa (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator mm (inch)					
			#1	#2	#3	#4	#5	#6
1149 to 3830 (24 to 80)	50	8.88	9.14 (0.36)	29.0 (1.14)	4.32 (0.17)	4.57 (0.18)	29.0 (1.14)	8.89 (0.35)
1915 to 3064 (40 to 64)	1050	2.81	8.64 (0.34)	24.4 (0.96)	4.32 (0.17)	4.32 (0.17)	24.1 (0.95)	8.64 (0.34)
0 to 2298 (0 to 48)	50	10.6	7.87 (0.31)	20.8 (0.82)	4.32 (0.17)	4.32 (0.17)	20.6 (0.81)	8.13 (0.32)
766 to 1915 (16 to 40)	3350	2.89	6.86 (0.27)	17.5 (0.69)	3.81 (0.15)	4.06 (0.16)	18.3 (0.72)	5.33 (0.21)
			Permanent Set					
			2.54 (0.10)	5.33 (0.21)	1.52 (0.06)	1.52 (0.06)	6.10 (0.24)	2.79 (0.11)

Test Results: (Continued)

ASTM E 1886, Air Pressure Cycling

Test Unit #1 (Continued)

Design Pressure: ±80.0 Pa (±80.0 psf)

POSITIVE PRESSURE

Pressure Range Pa (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator mm (inch)					
			#7	#8	#9	#10	#11	#12
766 to 1915 (16 to 40)	3500	4.17	3.05 (0.12)	15.0 (0.59)	3.30 (0.13)	0.51 (0.02)	3.56 (0.14)	1.27 (0.05)
0 to 2298 (0 to 48)	300	10.0	3.05 (0.12)	16.8 (0.66)	3.56 (0.14)	0.51 (0.02)	3.81 (0.15)	1.27 (0.05)
1915 to 3064 (40 to 64)	600	2.60	3.30 (0.13)	19.3 (0.76)	4.06 (0.16)	0.51 (0.02)	4.57 (0.18)	1.52 (0.06)
1149 to 3830 (24 to 80)	100	8.17	3.81 (0.15)	21.3 (0.84)	4.32 (0.17)	1.02 (0.04)	5.33 (0.21)	2.03 (0.08)
			Permanent Set					
			1.52 (0.06)	4.83 (0.19)	2.03 (0.08)	0.25 (0.01)	1.27 (0.05)	0.51 (0.02)

NEGATIVE PRESSURE

Pressure Range Pa (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator mm (inch)					
			#7	#8	#9	#10	#11	#12
1149 to 3830 (24 to 80)	50	8.88	4.83 (0.19)	24.9 (0.98)	5.59 (0.22)	1.52 (0.06)	2.03 (0.08)	0.76 (0.03)
1915 to 3064 (40 to 64)	1050	2.81	4.57 (0.18)	20.8 (0.82)	4.83 (0.19)	1.27 (0.05)	1.78 (0.07)	0.51 (0.02)
0 to 2298 (0 to 48)	50	10.6	4.57 (0.18)	17.8 (0.70)	4.32 (0.17)	0.76 (0.03)	1.52 (0.06)	0.25 (0.01)
766 to 1915 (16 to 40)	3350	2.89	4.06 (0.16)	13.0 (0.51)	3.81 (0.15)	0.51 (0.02)	1.02 (0.04)	0.25 (0.01)
			Permanent Set					
			1.02 (0.04)	5.33 (0.21)	1.78 (0.07)	0.25 (0.01)	0.51 (0.02)	0.25 (0.01)

Observations: No additional damage or deglazing was observed.

Result: Pass

Note: See Architectural Testing Sketch #1 for indicator locations.

Tape and film were not used to seal against air leakage during structural testing.

Drawing Reference: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein.

List of Official Observers:

<u>Name</u>	<u>Company</u>
William Smith Sr.	Impact Glazing Consultants
William Smith Jr.	Impact Glazing Consultants
Tony Kline	Architectural Testing, Inc.
Mark A. Hess	Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of four years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

Results obtained are tested values and were secured by using the designated test methods. If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in the test specimen can be made. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimen tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess
Technician

Joseph A. Reed, P.E.
Director – Engineering and Product Testing

MAH:ck/cmd

Attachments (pages): This report is complete only when all attachments listed are included.

- Appendix-A: Alteration Addendum (1)
- Appendix-B: Test Equipment (1)
- Appendix-C: Photograph (1)
- Appendix-D: Sketches (2)
- Appendix-E: Drawings (16)

Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	06/23/09	N/A	Original report issue

Appendix A
Alteration Addendum

Note: No alterations were required.

Appendix B
Test Equipment

Instrument	Manufacturer	Asset #
1" Dial Indicator	Starrett	004271
1" Dial Indicator	Starrett	62024
1" Dial Indicator	Starrett	004270
1" Dial Indicator	Starrett	004272
1" Dial Indicator	Starrett	004268
1" Dial Indicator	Starrett	004263
20" Linear Transducer	Celesco	004285
20" Linear Transducer	Celesco	004279
20" Linear Transducer	Celesco	005429
20" Linear Transducer	Celesco	62348
20" Linear Transducer	Celesco	005427
20" Linear Transducer	Celesco	62261-3
Mini-Mule	Architectural Testing, Inc.	004784
6" Dial Calipers	N/A	330-1
Air Cannon	Architectural Testing, Inc.	004273
Control Panel	Architectural Testing, Inc.	004821
Weather Meter	Davis	004330

Appendix C
Photograph



Photo No. 1
Overall view of aluminum curtain wall

Appendix D

Sketches



Architectural
Testing

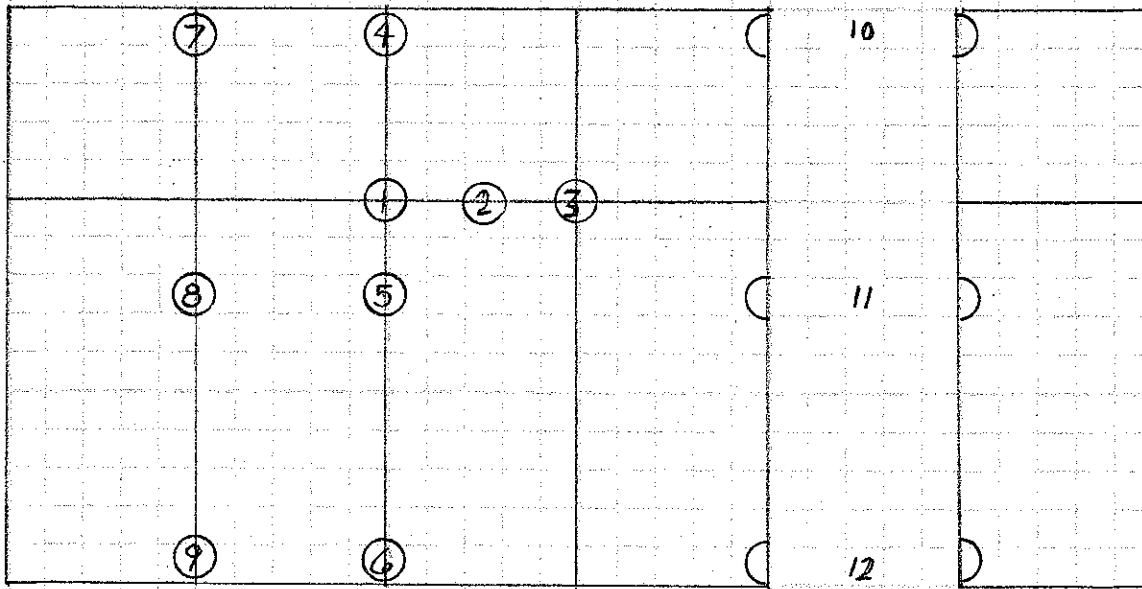
DATE: 4/14/09

BY: Mark A. Hess

PROJECT NO. 85731 01-401-44 SHEET 1 OF 2

PROJECT NAME: Coral Architectural Products

INDICATOR LOCATIONS





Architectural
Testing

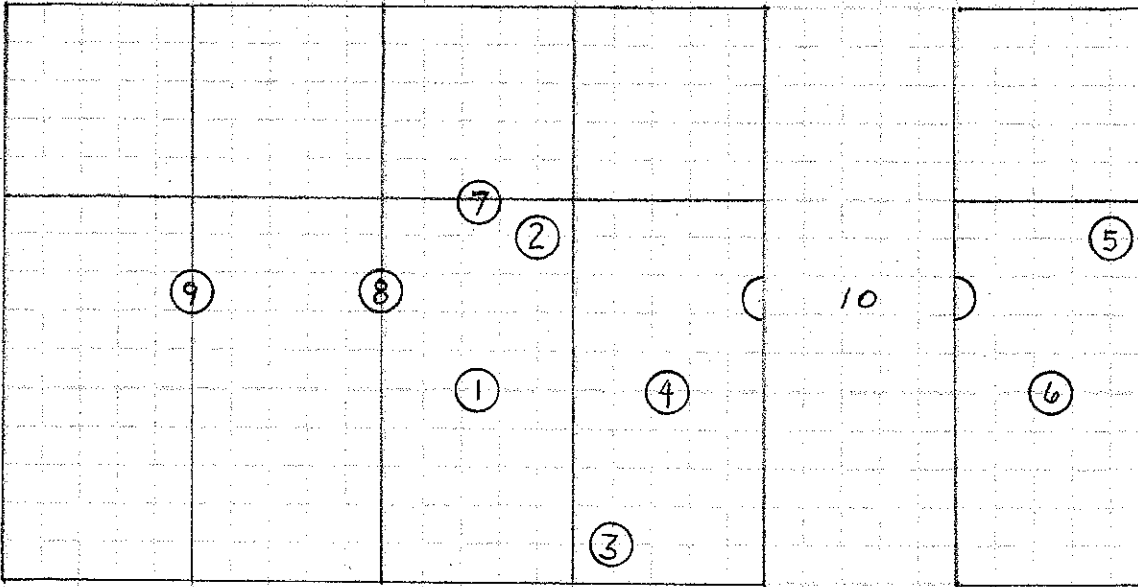
DATE: 4/14/09

BY: Mark A. Hess

PROJECT NO. 85731.01-401-44 SHEET 2 OF 2

PROJECT NAME: Coral Architectural Products

IMPACT LOCATIONS



Appendix E

Drawings

BILL OF MATERIALS

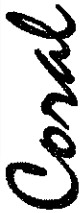
ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	3NOTES
1	NG5	BULB GASKET - DOORFRAME STOP	0.165 SPACE	EPDM	VARIES	
2	NG10	EXTERIOR GLAZING GASKET	0.250 SPACE	EPDM	VARIES	
3	NG11	EXTERIOR PERIMETER GASKET	0.300 SPACE	EPDM	VARIES	
4	NG12	PRESSURE BAR GASKET (ISOLATOR)	0.140 SPACE	EPDM	VARIES	
5	NG14	INTERIOR SPACER GASKET	0.250 SPACE	EPDM	VARIES	
6	SM5601	JOINT SEALANT TAPE	0.500 X 0.125 X VARIES	BUTYL	SCHNEE-MOOREHEAD	
7	795	SILICONE - PERIMETER SEALANT	FILL SPACE	SILICONE	DOW CORNING	USED @ PERIMETER
8	995	SILICONE - GLASS TO METAL	FILL SPACE	SILICONE	DOW CORNING	GLASS TO METAL AND INTERNAL
9	SB14	SETTING BLOCK @ SILL & HORIZONTAL	0.875 X 0.188 X 4.000	EPDM	VARIES	2 PER LITE
10	SP202	END DAM @ CAPTURED MULLION	1.287 X 1.068 X 0.745	INJECTION MOLDED PLASTIC	CORAL INDUSTRIES, INC.	LOCATE 1 @ EACH END OF HORIZONTAL
11	SP206	BRIDGE DAM @ B.G. MULLION	3.123 X 0.843 X 0.745	INJECTION MOLDED PLASTIC	CORAL INDUSTRIES, INC.	LOCATE 1 @ HORIZONTAL AND B.G. MULLION
12	SP210	MULLION CAP	3.000 X 1.925 X 0.048	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	LOCATE @ TOP AND BOTTOM OF VERTICAL
13	2086	JACKSON 2086 PANIC	36.000 X 7.3125 X 3.000	ALUMINUM	JACKSON	
14	PW151	B.G. MULLION	2.500 X 5.000 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
15	PW202	OPEN BACK MULLION FILLER	0.681 X 4.484 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
16	PW203	HEAD/ SILL/ HORIZONTAL TRIM	2.500 X 4.980 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
17	PW204	PRESSURE BAR	2.443 X 0.433 X 0.125	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
18	PW205	FACE COVER	2.500 X 0.500 X 0.062	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
19	PW208	FEMALE HALF 90° CORNER	1.625 X 6.110 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
20	PW209	MALE HALF 90° CORNER	1.875 X 6.110 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
21	PW210	INTERIOR CORNER TRIM	2.500 X 1.288 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
22	PW214	SUB DOORFRAME	1.000 X 4.500 X 0.080	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
23	PW513	POCKET FILLER FOR PW550	0.937 X 1.193 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
24	PW550	VERTICAL MULLION	2.500 X 5.843 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
25	PW552	HEAD/SILL	2.390 X 5.637 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
26	PW555	INTERMEDIATE HORIZONTAL	2.390 X 5.730 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
27	PW556	GLAZING TEE - 90° CORNER	2.584 X 2.584 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
28	DS200	DOORFRAME STOP	0.882 X 1.149 X 0.050	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
29	TH4	THRESHOLD	0.500 X 4.000 X 0.125	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
30	TH403	THRESHOLD CLIP	1.390 X 1.516 X 1.909	STEEL	VARIES	

(CONTINUED ON SHEET 15)

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# X5731.01-401-44
Date 5/13/09 Tech MAH



Architectural Products
3010 RICE MINNE ROAD, TUSCALOOSA, AL 35408
PHONE: 800-772-7737 FAX: 205-445-0561

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

BILL OF MATERIALS

DATE	4/14/2009
DRAWN	DCW
CHECKED	DCW
APPROVED	DCW
PROJECT NO.	
DRAWING NO.	PW256_01
SHEET	14 OF 16

BILL OF MATERIALS

ITEM NO.	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	3NOTES
31	SR150	REINFORCEMENT CHANNEL	4.500 X 1.875 X 0.250	A36 STEEL	VARIES	STEEL REINFORCEMENT FOR (14) AND (24)
32	SR504	REINFORCEMENT CHANNEL	4.562 X 1.250 X 0.250	A36 STEEL	VARIES	STEEL REINFORCEMENT FOR (14) AND (24)
33		SR150 WITH REINFORCEMENT BAR	3.750 X 0.500	A36 STEEL	VARIES	STEEL REINFORCEMENT FOR (14) AND (24)
34		SR150 WITH REINFORCEMENT BAR	3.750 X 0.750	A36 STEEL	VARIES	STEEL REINFORCEMENT FOR (14) AND (24)
35	FL207	DOOR HEADER	1.750 X 4.500 X 0.085	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
36	AS13	SQUARE NUT	1.475 X 1.475 X .180	STEEL	VARIES	
37	AS16	FASTENER	#14 X 1" HHSTS	STEEL	VARIES	TYP. SPLINE SCREW
38	AS19	FASTENER	#12 X 1" HWH SELF DRILL	STEEL	VARIES	
39	AS25	FASTENER	#12 X 3/4" HWH SELF DRILL	STEEL	VARIES	
40	AS37	FASTENER	#12 X 2" HWH SELF DRILL	STEEL	VARIES	
41	FASTENER	PERIMETER ANCHOR TO STEEL SUBSTRATE	1/2"-13 X 2" BOLT WITH WASHER AND NUT	STEEL	VARIES	
42	FASTENER	PERIMETER ANCHOR TO STEEL SUBSTRATE	1/2"-13 X 4-1/2" BOLT WITH WASHER AND NUT	STEEL	VARIES	
43	FASTENER	PERIMETER ANCHOR TO CONCRETE SUBSTRATE	1/2" LDT OR WEDGE ANCHOR	STEEL	VARIES	
44	FASTENER	PERIMETER ANCHOR TO STEEL SUBSTRATE	#12 X 1-1/2" PFH SELF DRILL	STEEL	VARIES	
45	FASTENER	STEEL REINFORCEMENT ATTACHMENT	1/4-20 X 2" BOLT WITH WASHER AND NUT	STEEL	VARIES	
46	FASTENER	THROUGH BOLT	1/4-20 X 3" BOLT WITH WASHER AND NUT	STEEL	VARIES	USED @ HORIZONTALS
47	NG16	DRY GLAZE INTERIOR SPACER GASKET	0.260 SPACE	EPDM	VARIES	
48	PW158	CORNER FACE COVER	3.752 X .500 X .062	6063-T6 ALUM	CORAL INDUSTRIES, INC.	
49	PW154	CORNER PRESSURE BAR	3.637 X 3.637 X .125	6063-T6 ALUM	CORAL INDUSTRIES, INC.	

GLAZING SCHEDULE

GLASS MARK	GLASS DESCRIPTION	MANUFACTURER	MAXIMUM D.L.O. SIZE (INCHES)	SQUARE FEET	MAXIMUM DESIGN PRESSURE (PSF)
A	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A 0.075 VENCEVA INTERLAYER	SOLUTIA	57-1/2" X 96"	38.3	± 80
B	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A 0.090 SOLUTIA SAFLEX PVB INTERLAYER	SOLUTIA	45-1/2" X 96"	30.3	± 65
B6	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A 0.060 SOLUTIA SAFLEX PVB INTERLAYER	SOLUTIA	57-1/2" X 96"	38.3	± 80
D	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A SGP (SENTRY GLASS PLUS) INTERLAYER	DUPONT	57-1/2" X 96"	38.3	± 65
U	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A 0.120 UVEKOL TYPE "S" INTERLAYER	CORAL INDUSTRIES, INC.	45-1/2" X 96"	30.3	± 65
U6	9/16" OVERALL THICKNESS LAMINATED GLASS CONSISTING OF TWO 1/4" H.S. GLASS AND A 0.060 UVEKOL TYPE "S" INTERLAYER	CORAL INDUSTRIES, INC.	57-1/2" X 96"	38.3	± 80

Architectural Testing

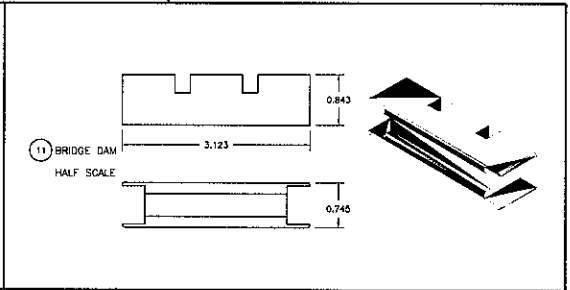
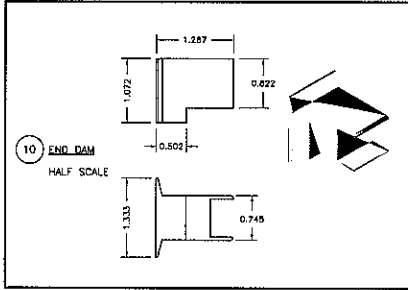
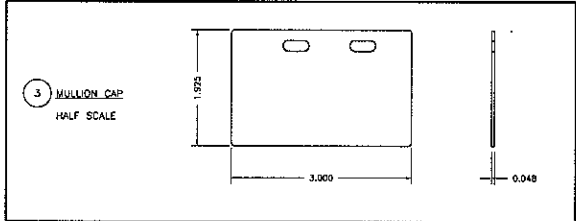
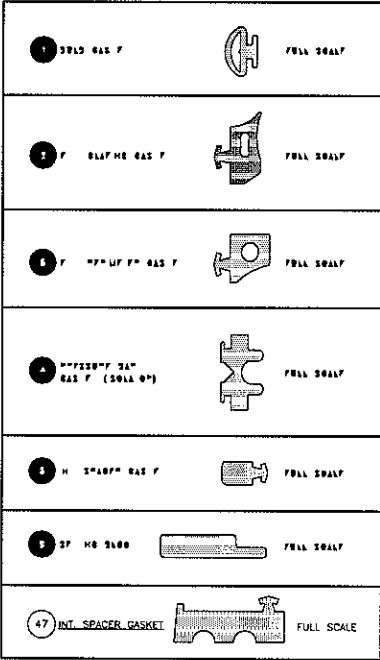
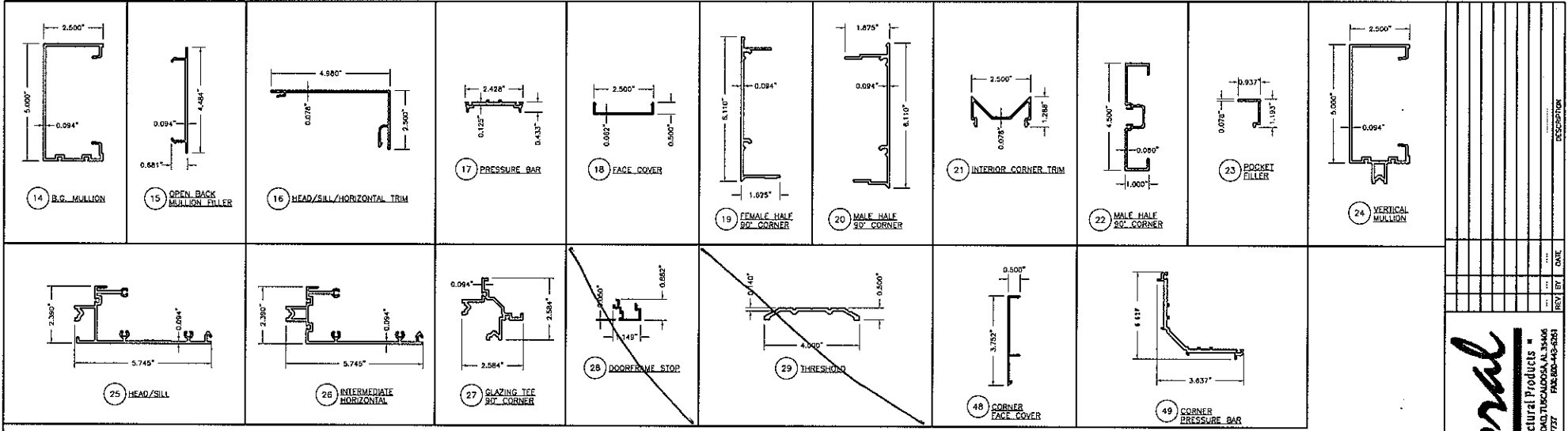
Test sample complies with these details. Deviations are noted.

Report# 85731-01-401-44
Date 5/12/09
Tech MAN

Architectural Products
 300 BICE WINE ROAD, TUSCALOOSA, AL 35408
 PHONE: 800-779-7277 FAX: 205-443-6881

TEST REPORT DRAWINGS
 PW256 IMPACT-RESISTANT
 CURTAIN WALL SYSTEM
 BILL OF MATERIALS AND GLAZING
 SCHEDULE

DATE		4/14/2009	
DRAWN	CHECKED	APPROVED	DATE
DCW	DCW	DCW	
PROJECT NO.			
DRAWING NO.			
PW256_01			
SHEET			
15 OF 16			



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# 85731.01-101-44
Date 5/12/09 Tech MAA

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

DIE DRAWINGS

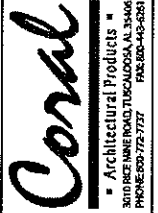
DATE 4/14/2009

DRAWN DCW CHECKED DCW APPROVED DCW

PROJECT NO.

DRAWING NO. PW256_01

SHEET 16 OF 16



TEST REPORT DRAWINGS PW256 IMPACT-RESISTANT CURTAIN WALL SYSTEM

FOR USE IN HURRICANE ZONES REQUIRING LARGE MISSILE IMPACT PROTECTION

INDEX TO DRAWINGS	
1	INDEX TO DRAWINGS AND NOTES
2	FRAMING ELEVATION - E1 CAPTURED AND B.G. MULLIONS WITH STEEL -LONG SPAN-
3	FRAMING ELEVATION - E2 CAPTURED MULLION WITHOUT STEEL -SHORT SPAN-
4	FRAMING ELEVATION - E3 B.G. MULLION WITHOUT STEEL -SHORT SPAN-
5	FRAMING ELEVATION - E4 CAPTURED MULLION WITH STEEL -LONG SPAN- SMALL MISSILE
6	FRAMING ELEVATION FOR DOORS - E5 CAPTURED MULLION WITH STEEL -LONG SPAN-
7	FRAMING ELEVATION - E6 CAPTURED MULLION WITH STEEL - LONG SPAN- LARGE MISSILE
8	FRAMING DETAILS
9	FRAMING DETAILS
10	FRAMING DETAILS
11	DOOR AND FRAMING DETAILS
12	DOOR AND FRAMING DETAILS
13	FRAMING DETAILS
14	BILL OF MATERIALS
15	BILL OF MATERIALS AND GLAZING SCHEDULE
16	DIE DRAWINGS

ABBREVIATIONS:

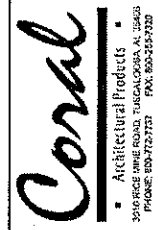
D.L.O. = DAY LIGHT OPENING
 D.O.H. = DOOR OPENING HEIGHT
 D.O.W. = DOOR OPENING WIDTH
 ELEVS = ELEVATIONS
 EXT. = EXTERIOR
 INT. = INTERIOR
 MAX. = MAXIMUM
 MIN. = MINIMUM
 OPP. = OPPOSITE
 TYP. = TYPICAL



Test sample complies with these details.
 Deviations are noted.

Report# 85731.01-401-44
 Date 5/12/09 Tech M.914

REV	BY	DATE	DESCRIPTION

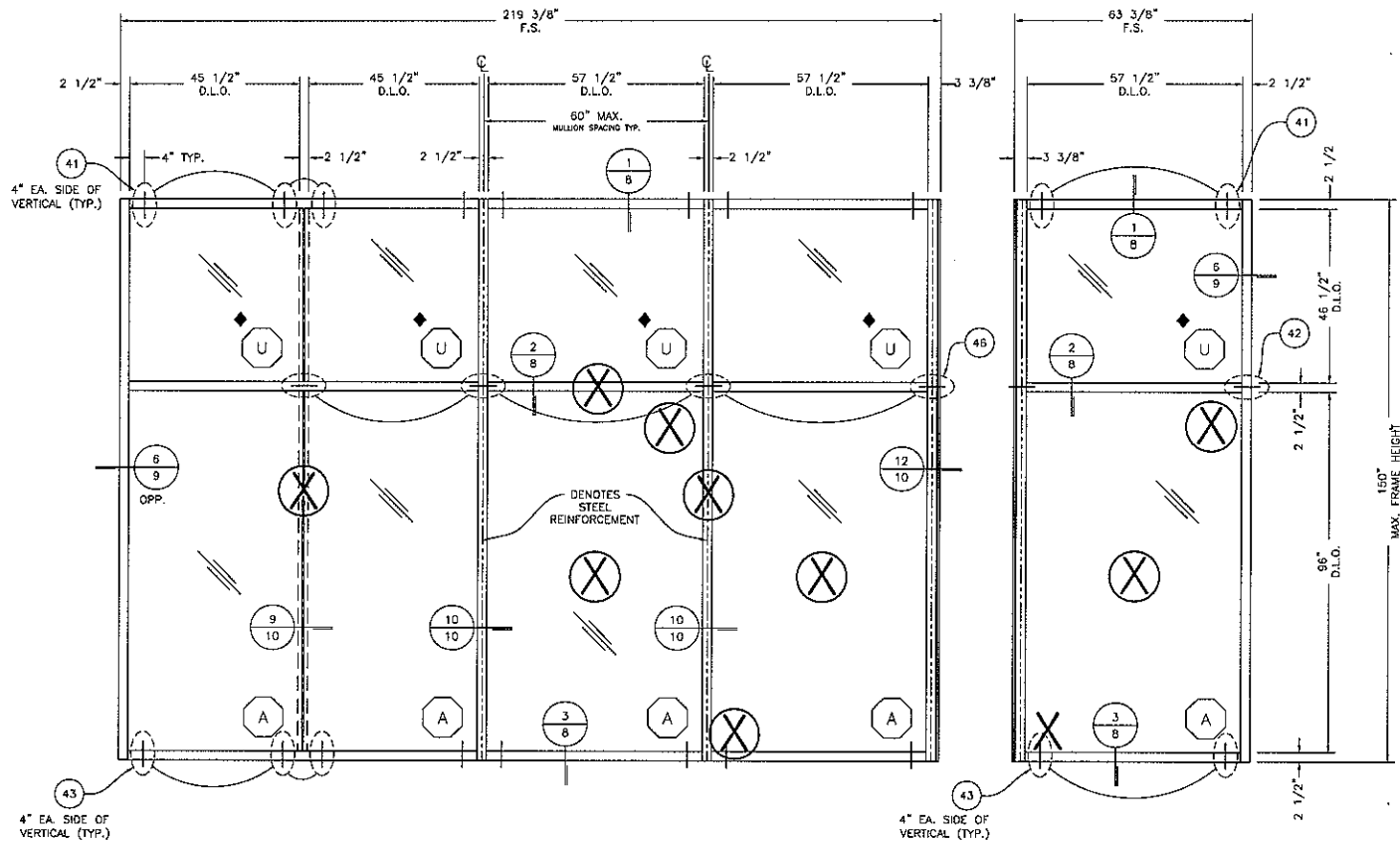


TEST REPORT DRAWINGS
 PW256 IMPACT-RESISTANT
 CURTAIN WALL SYSTEM

INDEX TO DRAWINGS AND NOTES

DATE: 4/14/2009		
DRAWN DCW	CHECKED DCW	APPROVED DCW
PROJECT NO.: TEST		
DRAWING NO.: PW256_01		
SHEET 1 OF 16		

SPECIMEN #E1	
TEST METHOD	TEST CONDITIONS
AIR INFILTRATION TEST (ASTM E283 AND TAS 202)	1.57 PSF & 6.24 PSF
WATER INFILTRATION TEST (ASTM E331 AND TAS 202)	20.00 PSF
UNIFORM STATIC LOAD TEST (ASTM E330 AND TAS 202)	+/- 80 PSF DESIGN PRESSURE
LARGE MISSILE IMPACT TEST (ASTM E1886/E1996 AND TAS 203)	9-LB 40Z. 3x4 (@ 50FT/SEC)
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 80 PSF DESIGN PRESSURE



ELEVATION E1
CAPTURED & B.G. MULLIONS -LONG SPAN-
WITH SR150 & 1/2" x 3-3/4" BAR
STEEL REINFORCEMENT

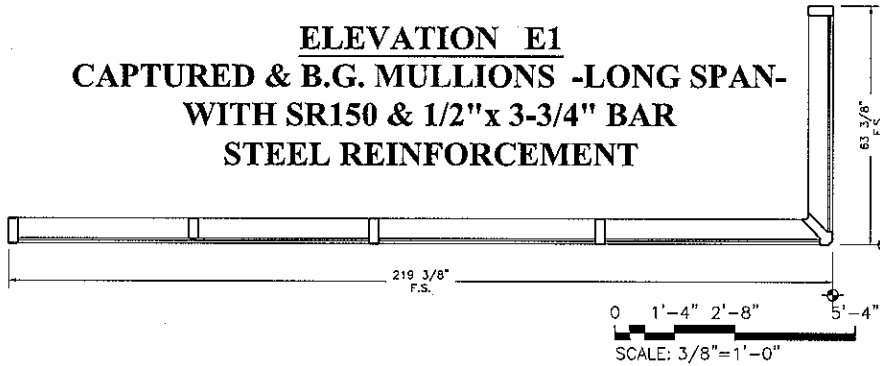
STEEL BUCK FRAME

TESTING:
AIR, WATER, STATIC, IMPACT, AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180) = 0.833

DESIGN PRESSURE = +/- 80 PSF

- ⊗ = LARGE MISSILE IMPACT LOCATIONS
- ◆ = INFILL ONLY (DO NOT IMPACT)



Test sample complies with these details.
Deviations are noted.

Report# 85731.01-401-44
Date 5/12/09 Tech MAN

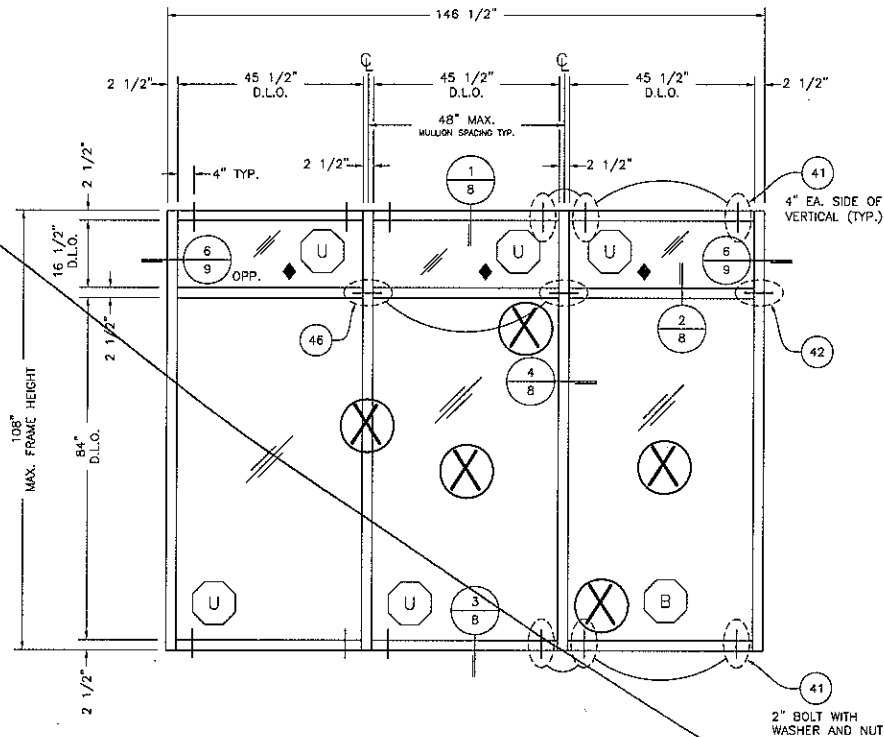
REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3719 BRIDGE LANE ROAD, FUSSELL CIRCLE, AL 36606
PHONE: 800-720-7337 FAX: 900-353-1200

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM
FRAMING ELEVATION

DATE	4/14/2009		
DRAWN	CHECKED	APPROVED	
OCW	OCW	OCW	
PROJECT NO.	TEST		
DRAWING NO.	PW256.01		
SHEET	2 OF 16		

SPECIMEN #E2	
TEST METHOD	TEST CONDITIONS
UNIFORM STATIC LOAD TEST (ASTM E330 AND TAS 202)	+/- 65 PSF DESIGN PRESSURE
LARGE MISSILE IMPACT TEST (ASTM E1886/E1996 AND TAS 201)	9-LB 4OZ, 2x4 @ 50FT/SEC
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 65 PSF DESIGN PRESSURE



**ELEVATION E2
CAPTURED MULLION -SHORT SPAN-
WITHOUT REINFORCEMENT**

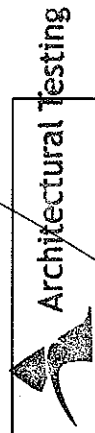
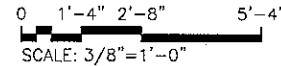
STEEL BUCK FRAME

TESTING:
STATIC, IMPACT, AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180)= 0.600

DESIGN PRESSURE = +/- 65 PSF

- = LARGE MISSILE IMPACT LOCATIONS
- = INFILL ONLY (DO NOT IMPACT)



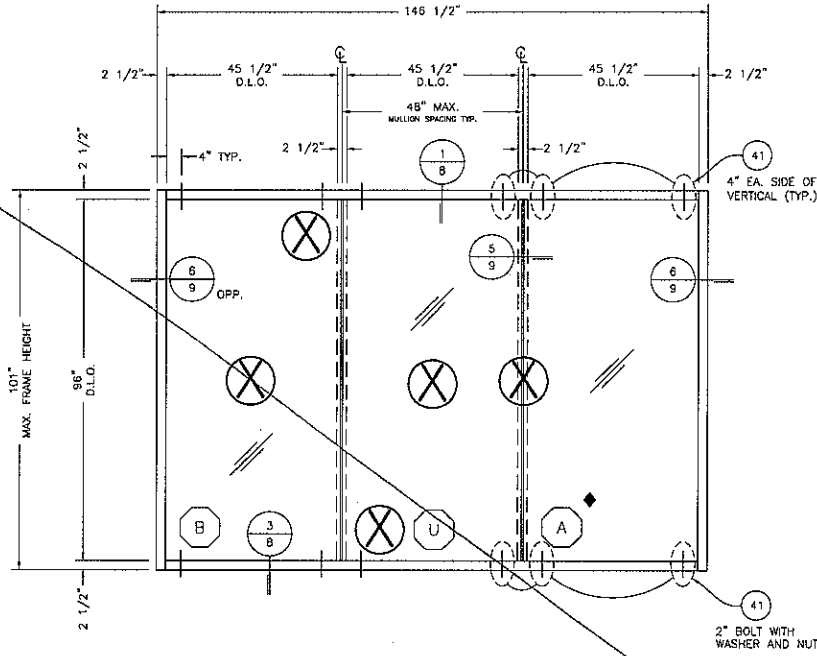
Test sample complies with these details.
Deviations are noted.

Report# _____ Date _____ Tech _____

*Not utilized in test report
this ATTI report
see 85740.01-401-44 #85740.01-401-44*

 35 BRANCE HAIR ROAD, BUSCAH POOL, AL 35506 PHONE: 904-7272727 FAX: 904-543-1209	
TEST REPORT DRAWINGS PW256 IMPACT-RESISTANT CURTAIN WALL SYSTEM FRAMING ELEVATION	
DATE	4/14/2009
DRAWN	DCW
CHECKED	DCW
APPROVED	DCW
PROJECT NO.	TEST
DRAWING NO.	PW256 01
SHEET	3 OF 16

SPECIMEN #E3	
TEST METHOD	TEST CONDITIONS
UNIFORM STATIC LOAD TEST (ASTM E330 AND TAS 202)	+/- 65 PSF DESIGN PRESSURE
LARGE MISSILE IMPACT TEST (ASTM E1863/E1996 AND TAS 201)	9-LB 40Z, 2x4 @ 50FT/SEC
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 65 PSF DESIGN PRESSURE



**ELEVATION E3
B.G. MULLION -SHORT SPAN-
WITHOUT REINFORCEMENT**

STEEL BUCK FRAME

TESTING:
STATIC, IMPACT, AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180)= 0.561

DESIGN PRESSURE = +/- 65 PSF

⊗ = LARGE MISSILE IMPACT LOCATIONS

◆ = INFILL ONLY (DO NOT IMPACT)

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8"=1'-0"

utilize tests available with no repair in ATTA in see 85-LH-101-01-01-01-01-01

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# _____ Date _____ Tech _____

NO.	REV.	DATE	DESCRIPTION

Coral
Architectural Products
3010 N. CENTRAL EXPRESSWAY, SUITE 100
PHOENIX, AZ 85018
PHONE: 602-727-0737 FAX: 602-533-7200

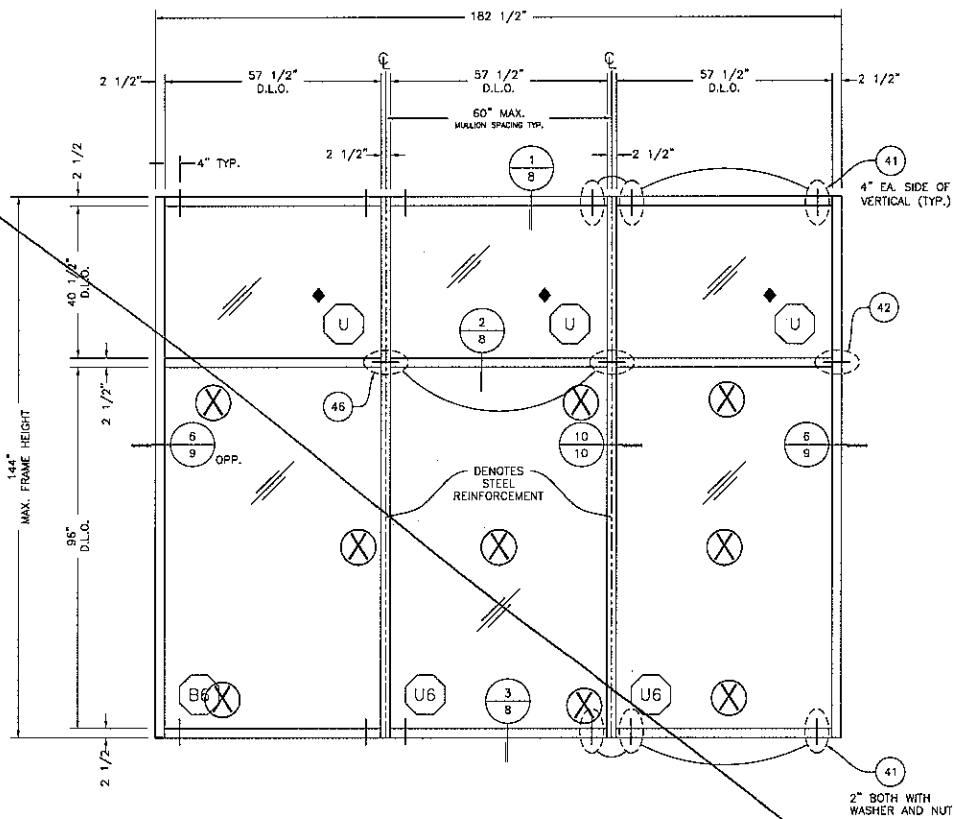
TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM
FRAMING ELEVATION

DATE	4/14/2009		
DRAWN	CHECKED	APPROVED	
DCW	DCW	DCW	
PROJECT NO.	TEST		
DRAWING NO.	PW256 01		

SHEET 4 OF 16

*for skilled in see
test As per 10-10-10
#8 and 42
ATTN: CHAS
#*

SPECIMEN #E4	
TEST METHOD	TEST CONDITIONS
SMALL MISSILE IMPACT TEST (ASTM E1886/E1996 AND TAS 201)	10 BALL BEARINGS @ 130 FT/SEC
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 80 PSF DESIGN PRESSURE



**ELEVATION E4 - SMALL MISSILE
CAPTURED MULLION -LONG SPAN-
WITH SR150 & 1/2"X 3-3/4" BAR
STEEL REINFORCEMENT**

STEEL BUCK FRAME

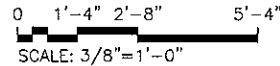
TESTING:
IMPACT, AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180)= 0.833

DESIGN PRESSURE = +/- 80 PSF

⊗ = SMALL MISSILE IMPACT LOCATIONS

◆ = INFILL ONLY (DO NOT IMPACT)



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report/ Date _____ Tech _____

REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3010 KENNEDY ROAD, TUCUMCACA, AL 35006
PHONE: 330-772-7727 FAX: 330-443-6261

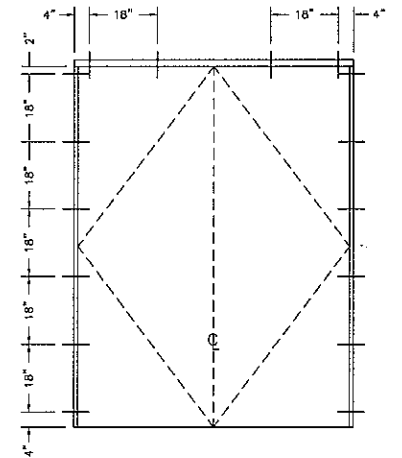
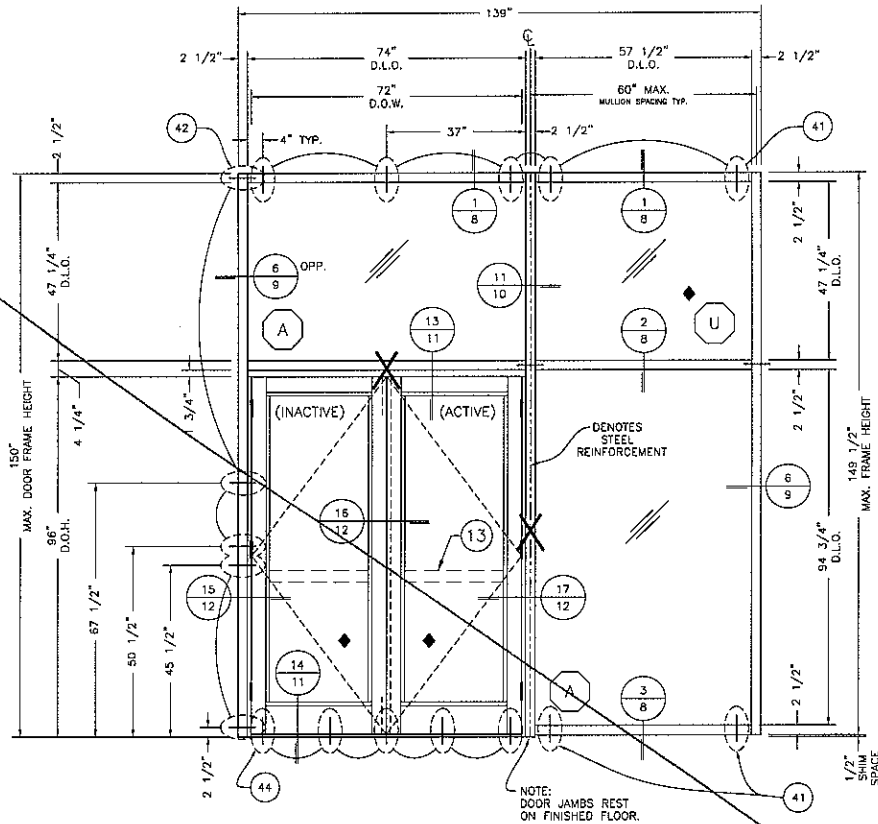
TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

FRAMING ELEVATION

DATE	4/14/2009		
DRAWN	CHECKED	APPROVED	
DCW	DCW	DCW	
PROJECT NO.			
DRAWING NO.	PW256 01		
SHEET	5 OF 16		

SPECIMEN #E5	
TEST METHOD	TEST CONDITIONS
LARGE MISSILE IMPACT TEST (ASTM E1863/E1996 AND TAS 201)	9-LB 40Z, 2x4 @ 50FT/SEC
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 80 PSF DESIGN PRESSURE

No impact report
 in this report
 in ATIT 01-101-101-401-401-401
 see # 85-743

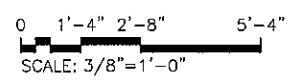


LOCATIONS FOR DOOR SUB-FRAME ATTACHMENT TO CURTAIN WALL ALUMINUM

**ELEVATION E5
CAPTURED MULLION -LONG SPAN-
WITH SR150 & 3/4" x 3-3/4" BAR STEEL REINFORCEMENT
FOR SERIES 381 ENTRANCE DOORS**

- STEEL BUCK FRAME
- TESTING:
IMPACT, AND CYCLE
- MAX. ALLOWABLE DEFLECTION (L/180) = 0.833
- DESIGN PRESSURE = +/- 80 PSF

- X = LARGE MISSILE IMPACT LOCATIONS
- ◆ = INFILL ONLY (DO NOT IMPACT)



Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# _____ Tech _____
Date _____

Architectural Products
1000 W. 14th St., Suite 100
Phoenix, AZ 85003
Phone: 602-7237237 Fax: 602-955-7330

Coral

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

FRAMING ELEVATION FOR DOORS

DATE: 4/14/2009

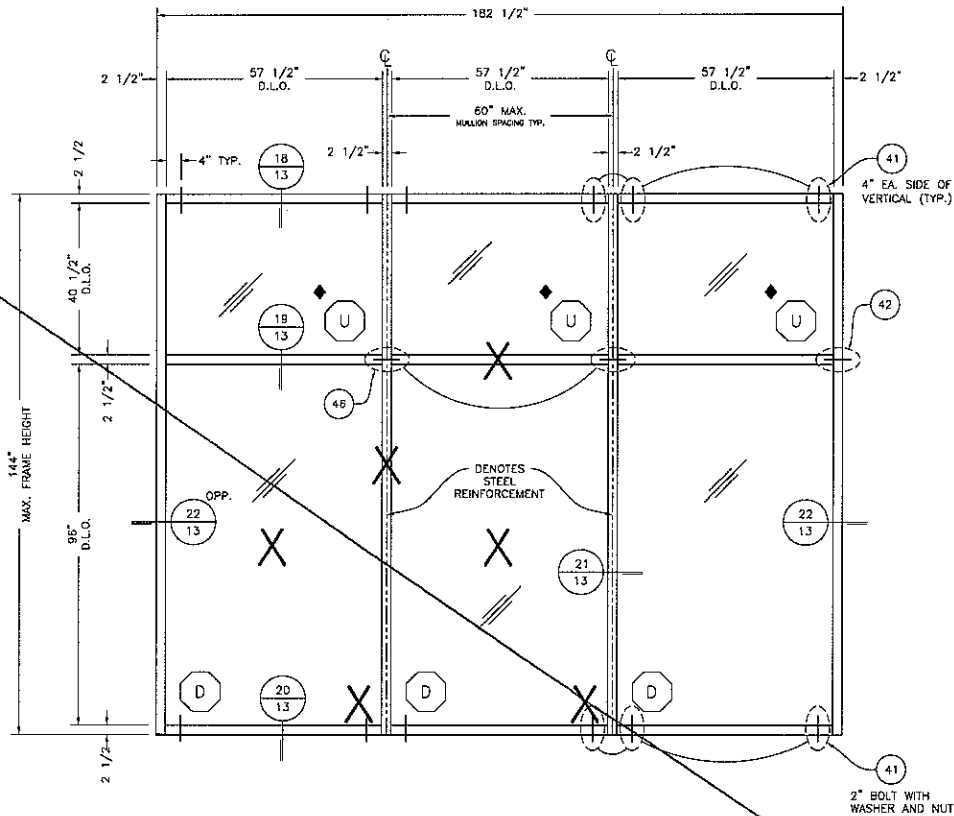
DRAWN DCW	CHECKED DCW	APPROVED DCW
-----------	-------------	--------------

PROJECT NO. TEST

DRAWING NO. PW256_01

SHEET 6 OF 16

SPECIMEN #E6	
TEST METHOD	TEST CONDITIONS
LARGE MISSILE IMPACT TEST (ASTM E1886/E1996 AND TAS 201)	9-LB 40Z, 2x4 @ 50 FT/SEC
CYCLIC LOAD TEST (ASTM E1996 AND TAS 203)	+/- 65 PSF DESIGN PRESSURE
WATER TEST	12 PSF



**ELEVATION E6 - LARGE MISSILE
CAPTURED MULLION -LONG SPAN-
WITH SR150 & 1/2" X 3-3/4" BAR
STEEL REINFORCEMENT**

STEEL BUCK FRAME

TESTING:
IMPACT, WATER AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180) = 0.833

DESIGN PRESSURE = +/- 65 PSF

X = LARGE MISSILE IMPACT LOCATIONS

◆ = INFILL ONLY (DO NOT IMPACT)

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# _____

Date _____

Tech _____

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

FRAMING ELEVATION

DATE 4/14/2009

DRAWN DCW	CHECKED DCW	APPROVED DCW
--------------	----------------	-----------------

PROJECT NO.

DRAWING NO.
PW256_01

SHEET 7 OF 16

Coral
Architectural Products
300 PINEWIND TOWER, MOBILE, AL 36688
PHONE: 904-727-7377 FAX: 904-443-6281

Handwritten notes:
Not in
MMS report
Approved
4/14-10/10-10/10
see 8/27/09
#887

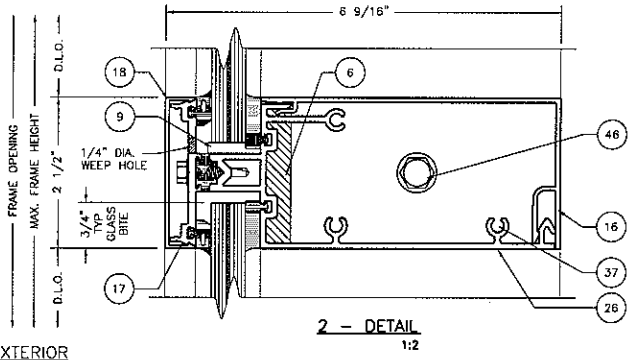
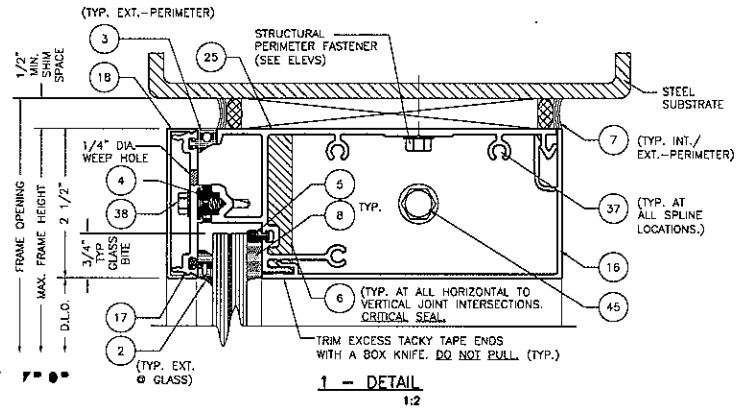
DESCRIPTION

DATE

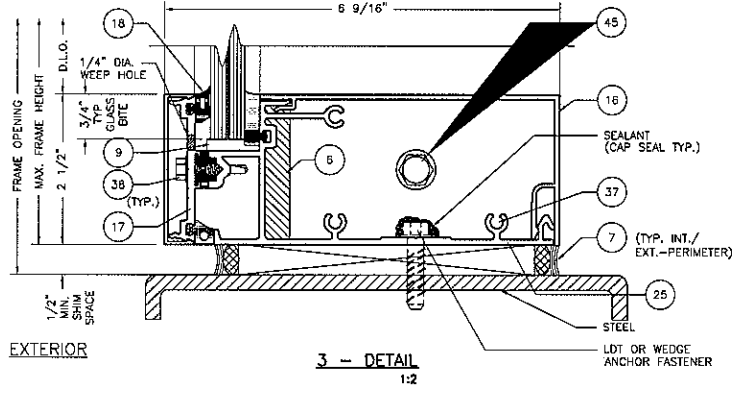
REV

BY

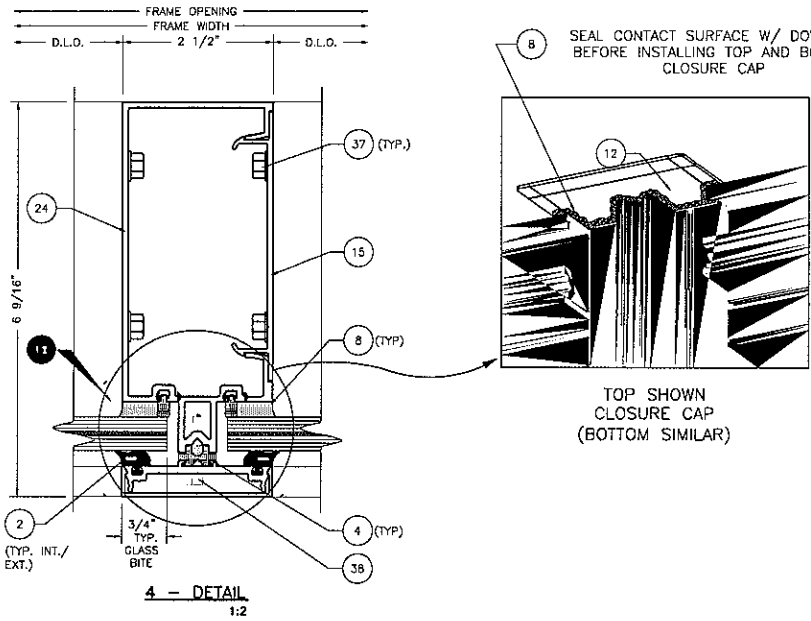
DATE



EXTERIOR



EXTERIOR



8 SEAL CONTACT SURFACE W/ DOW 795 BEFORE INSTALLING TOP AND BOTTOM CLOSURE CAP

TOP SHOWN CLOSURE CAP (BOTTOM SIMILAR)

Architectural Testing

Test sample complies with these details. Deviations are noted.

Report# 85731-01-401-44

Date 7/12/09 Tech MAA

REV	BY	DATE	DESCRIPTION

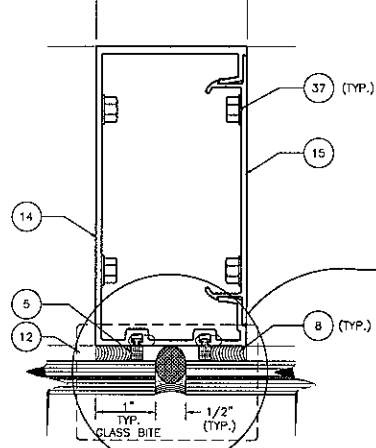
Coral
Architectural Products
3010 RICE AVE. SUITE 1100 LOS ANGELES, CA 90008
PHONE: 800-772-7277 FAX: 310-499-0201

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT CURTAIN WALL SYSTEM

FRAMING DETAILS

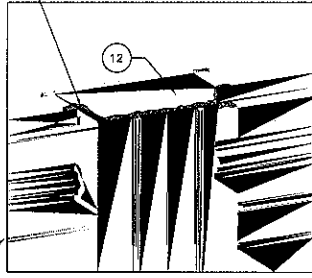
DATE	4/14/2008		
DRAWN	CHECKED	APPROVED	
DCW	DCW	DCW	
PROJECT NO.			
DRAWING NO.	PW256_01		
SHEET	8 OF 16		

FRAME OPENING
FRAME WIDTH
D.L.O. 2 1/2" D.L.O.



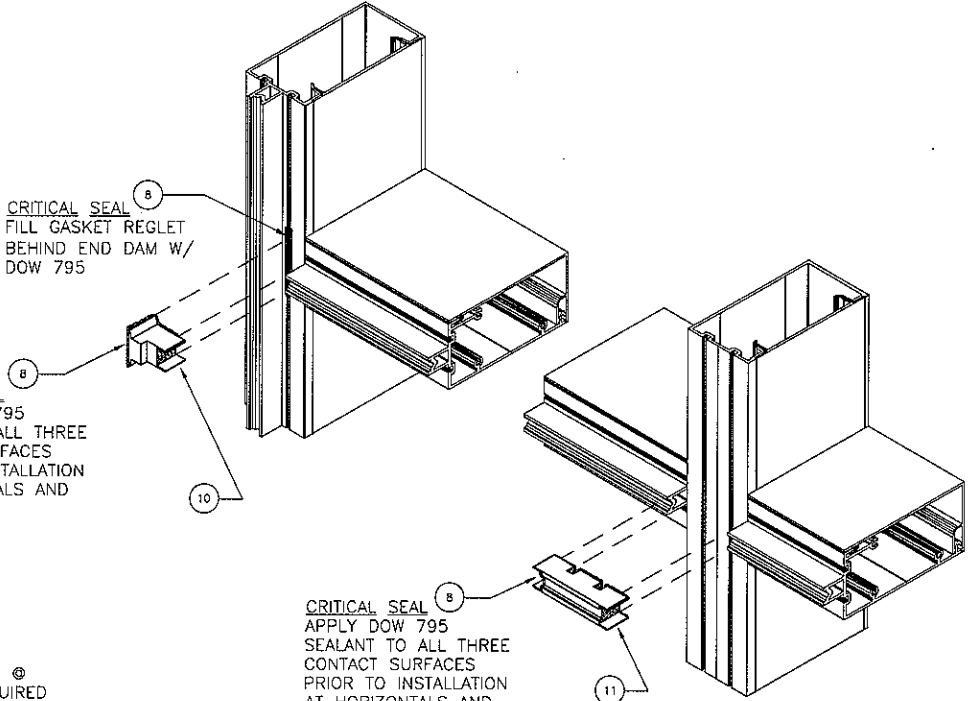
5 - DETAIL
1:2

8 SEAL CONTACT SURFACE W/ DOW 795 BEFORE INSTALLING TOP AND BOTTOM CLOSURE CAP



TOP SHOWN
CLOSURE CAP
(BOTTOM SIMILAR)

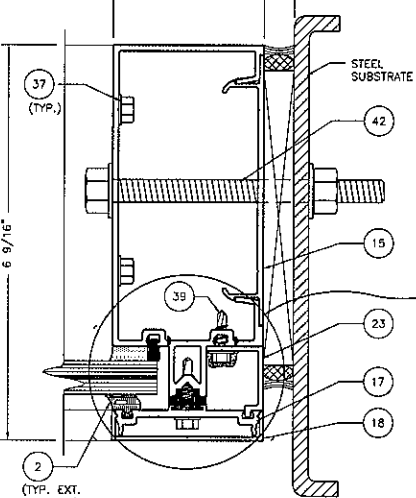
8 CRITICAL SEAL
FILL GASKET REGLET
BEHIND END DAM W/
DOW 795



8 CRITICAL SEAL
APPLY DOW 795
SEALANT TO ALL THREE
CONTACT SURFACES
PRIOR TO INSTALLATION
AT HORIZONTALS AND
SILL.

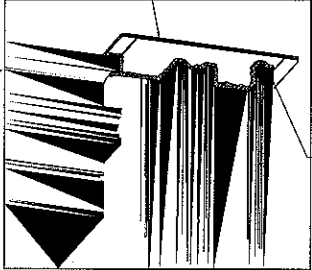
8 CRITICAL SEAL
APPLY DOW 795
SEALANT TO ALL THREE
CONTACT SURFACES
PRIOR TO INSTALLATION
AT HORIZONTALS AND
SILL.

FRAME OPENING
FRAME WIDTH
D.L.O. 2 1/2" D.L.O.



6 - DETAIL
1:2

12 FIELD MODIFY @
JAMB IF REQUIRED



TOP SHOWN
CLOSURE CAP
(BOTTOM SIMILAR)

8 SEAL CONTACT SURFACE
W/ DOW 795 BEFORE INSTALLING
TOP AND BOTTOM CLOSURE CAP

Architectural Testing

Test sample complies with these details.
Deviations are noted.

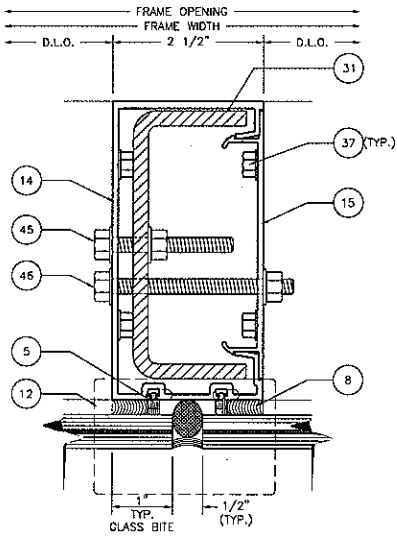
Report# 85731.01-401-44
Date 5/12/09 Tech MAM

REV	BY	DATE	DESCRIPTION

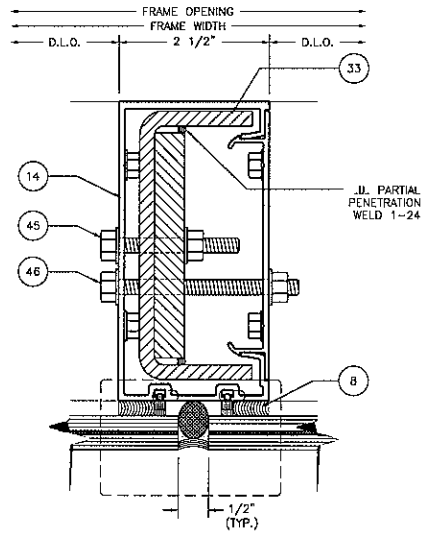
Coral
Architectural Products
3000 W. CENTRAL EXP. HWY. SUITE 1000
PHOENIX, AZ 85046
PHONE 602-772-7277 FAX 602-444-9801

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM
FRAMING DETAILS

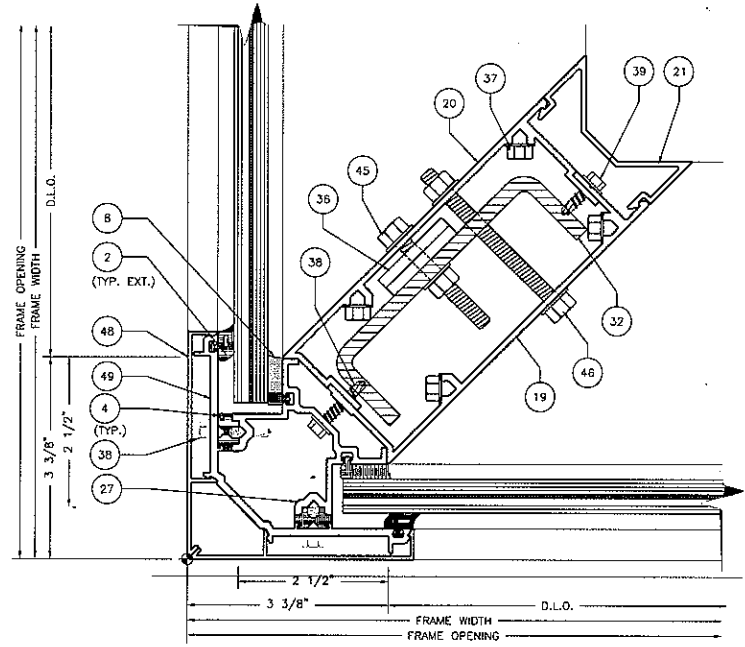
DATE	4/14/2009
DRAWN	DCW
CHECKED	DCW
APPROVED	DCW
PROJECT NO.	
DRAWING NO.	PW256_01
SHEET	9 OF 16



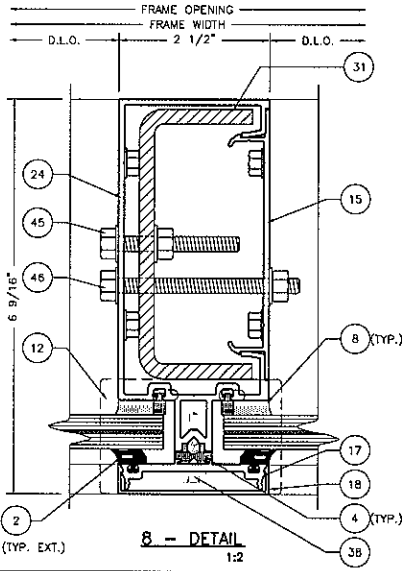
7 - DETAIL
1:2



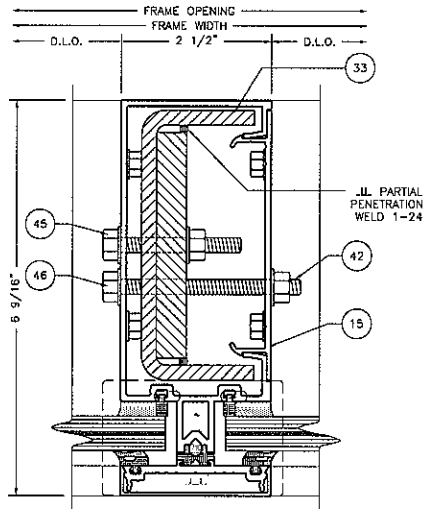
9 - DETAIL
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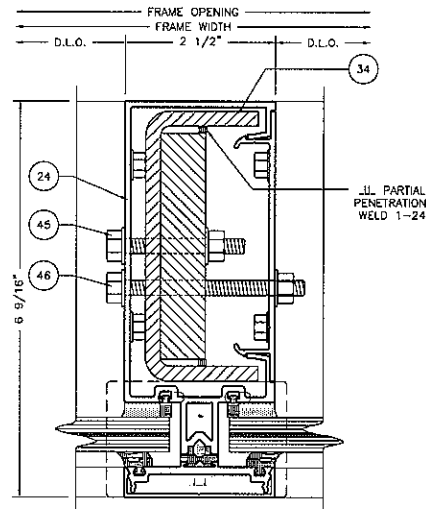
12 - DETAIL
1:2



8 - DETAIL
1:2



10 - DETAIL
1:2



11 - DETAIL
1:2

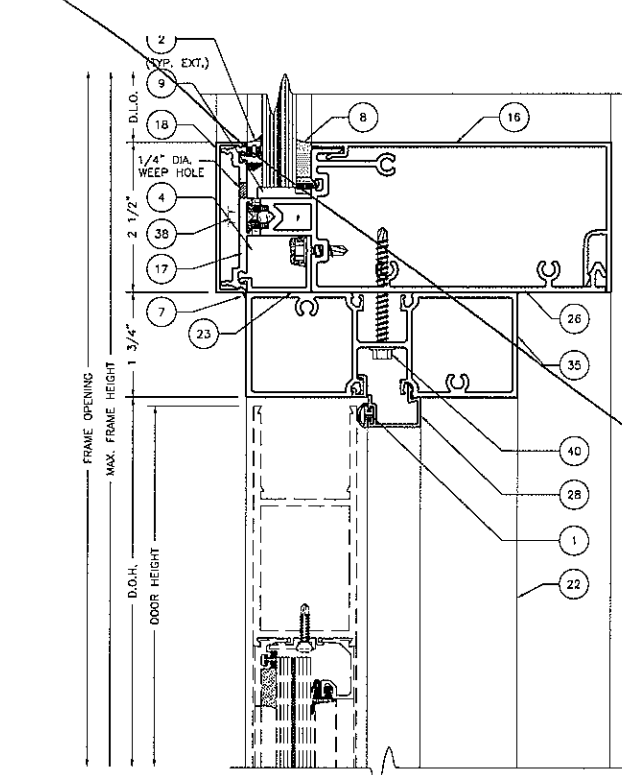
Architectural Testing
 Test sample complies with these details.
 Deviations are noted.
 Report# 83731.01-401-44
 Date 5/12/09 Tech *MAH*

NO.	REV.	DATE	DESCRIPTION

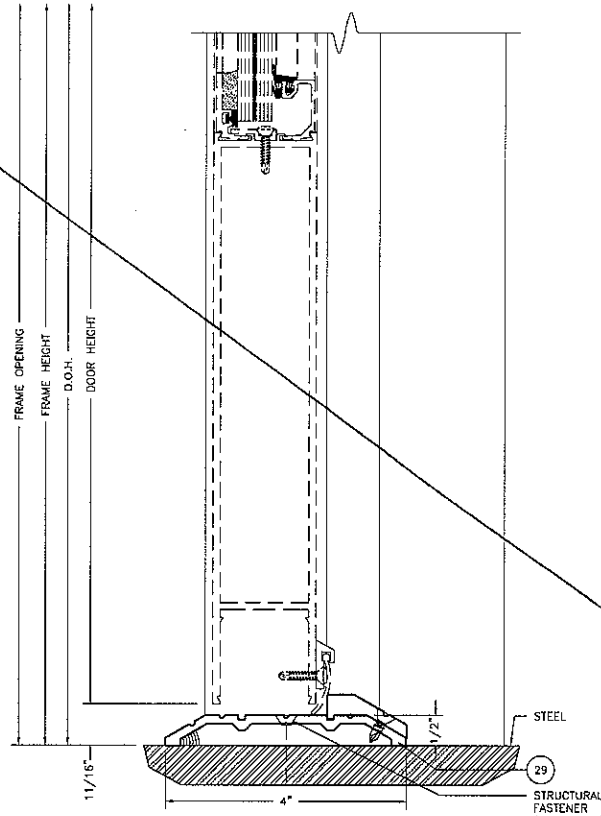
Coral
 Architectural Products
 200 BIRCHMOUNT ROAD, THE COLLEGE, AL 36808
 PHONE: 850-772-7737 FAX: 850-443-5851

TEST REPORT DRAWINGS
 PW256 IMPACT-RESISTANT
 CURTAIN WALL SYSTEM
 FRAMING DETAILS

DATE	4/14/2009
DRAWN	DCW
CHECKED	DCW
APPROVED	DCW
PROJECT NO.	
DRAWING NO.	PW256_01
SHEET	10 OF 16



13 - DETAIL
1:2



14 - DETAIL
1:2

Architectural Testing

Test sample complies with these details.
Deviations are noted.

Report# _____
Date _____
Tech _____

*Report # 85743.01-1041-1041-1041
May Chirped in
ITP*

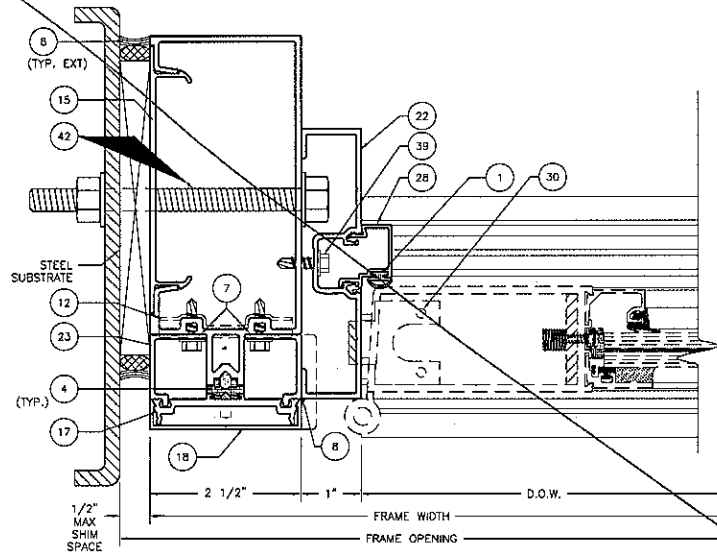
REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3000 S. W. 14th St., Ft. Lauderdale, FL 33404
PHONE: 800-722-7737 FAX: 800-443-8880

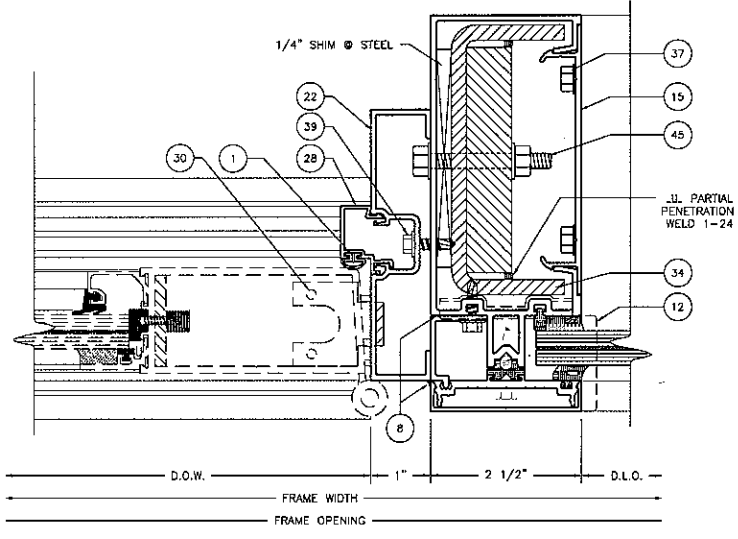
TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

DOOR AND FRAMING DETAILS

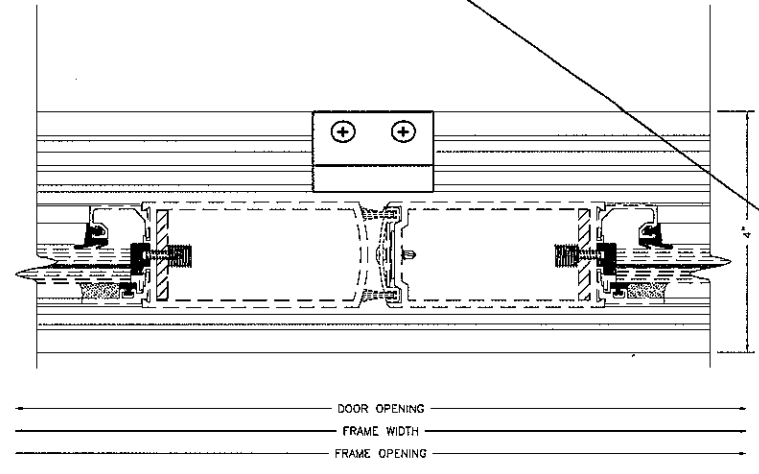
DATE	4/14/2008		
DRAWN	CHECKED	APPROVED	
DCW	DCW	DCW	
PROJECT NO.			
DRAWING NO.			
PW256_01			
SHEET 11 OF 16			



15 - DETAIL
1:2



17 - DETAIL
1:2



16 - DETAIL
1:2

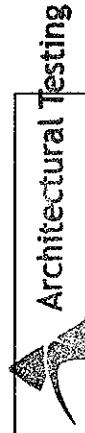
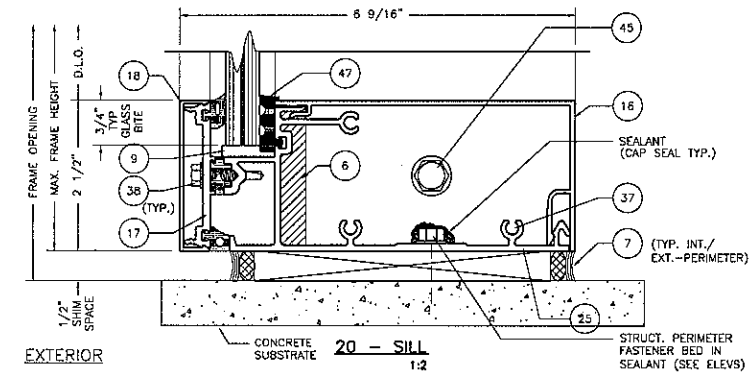
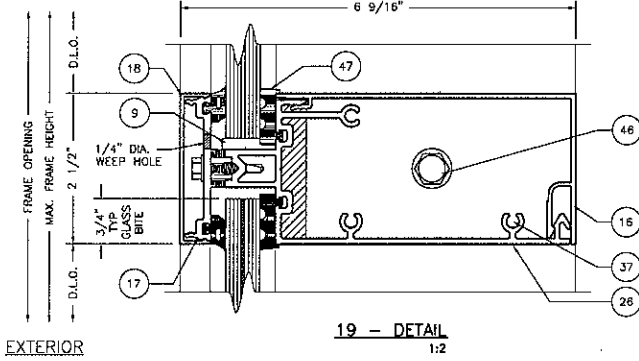
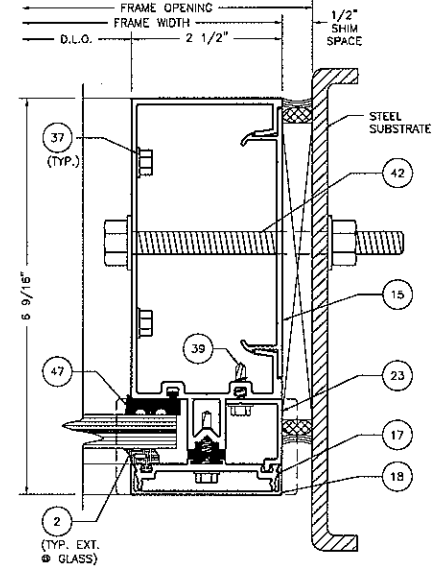
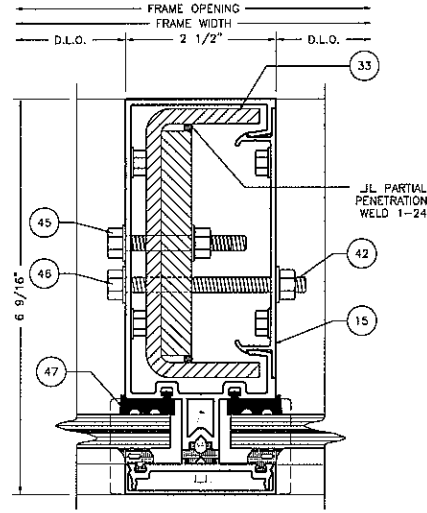
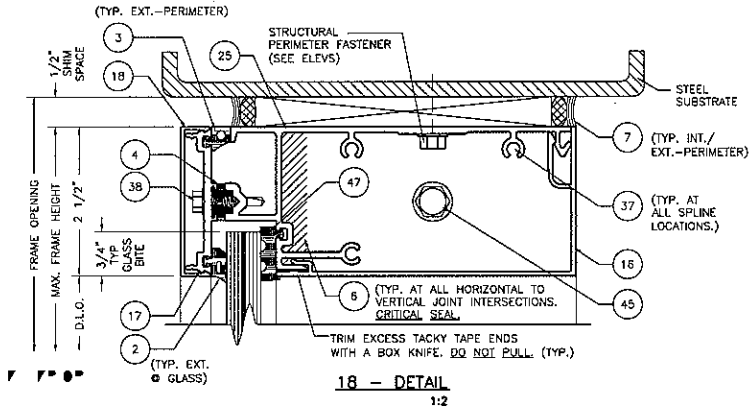
Not Affixed per
test # 01-10-01-44
report # 01-10-01-44
55743-01-10-01-44
ITL

Architectural Testing
Test sample complies with these details.
Deviations are noted.
Report# _____
Date _____ Tech _____

Coral
Architectural Products
300 BRET HARTE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7377 FAX: 205-443-6281

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM
DOOR AND FRAMING DETAILS

DATE	4/14/2009		
DRAWN	CHECKED	APPROVED	
OCW	OCW	DCW	
PROJECT NO.			
DRAWING NO. PW256_01			
SHEET 12 OF 16			



Test sample complies with these details.
Deviations are noted.

Report# 85731.01-401-441
Date 5/12/09 Tech M.A.R.

DRAWINGS FOR
FLORIDA
PRODUCT APPROVAL

TEST REPORT DRAWINGS
PW256 IMPACT-RESISTANT
CURTAIN WALL SYSTEM

DATE 4/14/2009		
DRAWN DCW	CHECKED DCW	APPROVED DCW
PROJECT NO.		
DRAWING NO. PW256_01		
SHEET 13 OF 16		

Coral
Architectural Products Inc.
3010 BICE WINE ROAD TUSCALOOSA, AL 35408
PHONE: 800-772-7377 FAX: 800-443-5281

FRAMING DETAILS

DESCRIPTION

REV BY DATE
