

MIAMI-DADE COUNTY PERFORMANCE TEST REPORT

Report No.: A2658.01-401-18

Rendered to:

CORAL ARCHITECTURAL PRODUCTS Tuscaloosa, Alabama

PRODUCT TYPE: Aluminum Curtain Wall **SERIES/MODEL**: PW257

This report contains in its entirety:

Cover Page: 1 pageReport Body: 15 pagesSketches: 1 pagePhotographs: 2 pagesDrawings: 16 pages

Test Dates: 12/09/10 **Through**: 12/10/10 **Paraget Date**: 04/21/11

Report Date: 04/21/11

Test Record Retention End Date: 12/10/20 **Miami-Dade County Notification No.**: ATI FL 10006

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1.0 Report Issued To: Coral Architectural Products

3010 Rice Mine Road

Tuscaloosa, Alabama 35406

2.0 Test Laboratory: Architectural Testing, Inc.

2250 Massaro Boulevard Tampa, Florida 33619

813-628-4300

3.0 Project Summary:

3.1 Product Type: Aluminum Curtain Wall

3.2 Series/Model: PW257

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). The samples were tested per Florida Building Code, Test Protocols for High Velocity Hurricane Zone, Protocols TAS 201-94, TAS 202-94, and TAS 203-94. The sample tested met the performance requirements set forth in the protocols for a ±80.00 psf *Design Pressure* rating.

3.4 Miami-Dade County Notification No.: ATI FL 10006

3.5 Test Dates: 12/09/2010 - 12/10/2010

3.6 Test Location: Architectural Testing, Inc. test facility in Tampa, Florida.

- **3.7 Test Sample Source**: The test specimen was provided by the client. Representative samples of the test specimen will be retained by Architectural Testing for a minimum of ten years from the test completion date.
- **3.8 Drawing Reference**: The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix C. Any deviations are documented herein or on the drawings.

Company

3.9 List of Official Observers:

Name

William Smith	Coral Architectural Products
Scott Parker	Architectural Testing, Inc.
Shawn G. Collins, P.E.	Architectural Testing, Inc.



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4.0 Test Specification(s):

TAS 201-94, Impact Test Procedures.

TAS 202-94, Criteria for Testing Impact and Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure Loading.

TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

5.0 Test Specimen Description:

5.1 Product Sizes:

Overall Area : 157.3 ft ²	Width (inches)	Height (inches)		
Overall size	151	150		

5.2 Frame Construction:

Frame Member	Material	Description				
Head/ Sill	Extruded	Drawing #23 (PW 613), #25 (PW652) & #16				
	Aluminum	(PW203) on sheet 13 of 15				
Vertical Mullion	Extruded	Drawing #24 (PW650)& #15 (PW202) on				
vertical Mullion	Aluminum	sheet 13 of 15				
Horizontal	Extruded	Drawing #26 (PW655) & #16 (PW203) on				
Mullion	Aluminum	sheet 13 of 15				
Jambs	Extruded	Drawing #23 (PW613), #24(PW650) & #15				
Jailius	Aluminum	(PW202) on sheet 13 of 15				

	Joinery Type	Detail		
		The horizontal members were square cut,		
corners Mechanical		sealed with silicone and secured with three (3)		
	#14 x 1" hex head screws; through the vertical			
	members into the adjacent horizontal			
	members screw spline.			
		The threshold was sealed and secured to the		
Threshold to	Thurshaldto	door jambs utilizing a threshold clip (#30 on		
door jamb Mechanical corners	Bill of Materials) with four (4) #12 X 1/2" flat			
	Mechanical	head Phillips screws located two (2) through		
		the threshold into the clip and two (2) through		
		the door jamb into the clip.		



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5.0 Test Specimen Description: (Continued)

5.3 Weatherstripping:

Description Quar		Location	
Exterior glazing gasket (NG10)	2 rows	Interior side of pressure bars; outer	
Exterior grazing gasket (NG10)	2 10WS	edges.	
Exterior perimeter gasket	1 row	Interior side of pressure bars at the	
(NG11)	1 row	perimeter of frame members	
Pressure bar gasket (NG12)	1 row	Interior side of pressure bars; center.	
Interior and an applicat (NC14)	1 row	Exterior side of vertical and horizontal	
Interior spacer gasket (NG14)		mullions; glazing perimeter.	

5.4 Glazing:

Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
1-5/16" IG	Silicone Foam	1/4" heat strengthened -0.090" Sentry Glass Plus®- 1/4" heat strengthened	1/4" heat strengthen	The unit was exterior glazed onto a foam silicone spacer at the perimeter, back bedded with Dow Corning 995 and secured with pressure bar utilizing #12 x 1-1/4" hex washer head self drilling screws located 12" on center.

Location	Quantity	Daylight Opening	Glass Bite
Transom	1	86-1/4" wide by 47-1/4" high	3/4"
Top side lite	1	57-1/2" wide by 47-1/4" high	3/4"
Bottom side lite	1	57-1/2" wide by 95-1/4" high	3/4"



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5.0 **Test Specimen Description**: (Continued)

5.5 Drainage:

Drainage Method	Size	Quantity	Location				
Weeps	1/4"	1	16" on center of the horizontal				
weeps	diameter	1	pressure bars; above center.				
	1 / / !!		8" from each end and one at the mid-				
Weeps	1/4" diameter	1	span of the horizontal cover plates;				
_	diameter		bottom leg.				
Mullion caps	3"x 2.691"x	1	Top and bottom of warting multipage				
(SP211)	0.048"	1	Top and bottom of vertical mullions.				
EVA Foom	1.287"x						
EVA Foam	1.787"x	1 Each horizontal to vertical conne					
End dam (SP204)	0.745"						

5.6 Hardware:

Description	Quantity	Location
3/8" x 2-1/2" long hexagon through bolts	1	Top and bottom of active panel lock stile.
1/2" diameter x 4-1/8" long through bolts.	1	Top and bottom of inactive panel lock stile.
4-3/4" x 4" hinges	3	8-1/2" from top and bottom of hinge stiles and one at the mid-span.

5.7 Reinforcement:

Drawing Number	Location	Material		
Detail #17 on Sheet #11		4-1/2" wide by 1-7/8" deep by 1/4" thick steel channel		
	Vertical mullion	with a 4" wide by 3/4" thick flat plate welded inside the channel.		



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6.0 Installation:

The specimen was installed into a C-10 steel buck. (See Drawing # Elevation E5) The rough opening allowed for a 1/2" shim space. The interior and exterior perimeter of the unit was sealed with Dow Corning 795.

Location	Anchor Description	Anchor Location
Sill to steel buck	1/2"-13 x 1" hex head bolts	4" and 6" from corner of vertical mullion and 4" from the jamb.
Head to steel buck	1/2"-13 x 2" hex head bolts with washers and nuts.	4" and 6" each side of the vertical mullion, 4" from the jamb corners and one at the mid-span of the transom lite.
Door jamb through frame jamb to steel buck	1/2"-13 x 4-1/2" hex head bolts with washers and nuts.	2", 45-1/2", 50-1/2" and 68" from the bottom corner.
Frame jambs to steel buck	1/2"-13 x 4-1/2" hex head bolts with washers and nuts.	2" up from horizontal to jamb corners.
Door sub- frame jamb to frame jamb and vertical mullion	#12 x 3/4" hex head self drilling screws	4" up from the bottom corners, four (4) at 18" on center and one (1) 2" down from top corners. (Total 12)
Door sub- frame head to horizontal mullion	#12 x 2" hex head self drilling screws	4" from each corner and 18" on center. (Total 4)
Threshold to steel buck	#12 x 1-1/4" flat head screws	5-1/2" from each corner and 24" on center. (Total 4)
Vertical mullion to reinforcement	1/4" - 20 x 3" hex head bolt with washers and nuts.	Through bolted 1" from all horizontal connections.
Vertical mullion to reinforcement	1/4" - 20 x 2" hex head bolt with washers and nuts.	2" from head and sill; through vertical mullion (PW650) and the reinforcement.



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7.0 Test Results: The temperature during testing was 69°F. The results are tabulated as follows:

Protocol TAS 202-94, Static Air Pressure Tests

Test Unit #1

Design Pressure: ±80.0 psf

	Indicator Reading (inches)					
Structural Loads 50% of Test Pressure (+60.0 psf)	#1	#2	#3	#4	#5	#6
Maximum Deflection	0.19	0.75	0.25	0.29	0.73	0.76
Permanent Set	0.04	0.13	0.11	0.05	0.08	0.10
Design Pressure (+80.0 psf)						
Maximum Deflection	0.26	0.88	0.31	0.34	0.83	0.88
Permanent Set	0.07	0.17	0.14	0.07	0.12	0.15
50% of Test Pressure (-60.0 psf)						
Maximum Deflection	0.51	1.08	0.52	0.43	0.98	1.08
Permanent Set	0.23	0.30	0.28	0.10	0.23	0.35
Design Pressure (-80.0 psf)						
Maximum Deflection	0.64	1.37	0.66	0.58	1.26	1.38
Permanent Set	0.26	0.37	0.34	0.14	0.29	0.44
Test Pressure (+120.0 psf)						
Maximum Deflection	0.53	1.46	0.55	0.55	1.39	1.47
Permanent Set	0.22	0.33	0.26	0.10	0.23	0.30
Test Pressure (-120.0 psf)						
Maximum Deflection	0.75	1.57	0.83	1.70	1.59	0.65
Permanent Set	0.23	0.22	0.30	0.19	0.09	0.02

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



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7.0 Test Results: (Continued)

Protocol TAS 201-94, Impact Test Procedures

Missile Weight: 9.25 lbs **Missile Length**: 7' 11"

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #1:

Impact #1: Missile Velocity: 49.8 fps						
Impact Area: Mid-span of the horizontal mullion.						
Observations:	Missile hit target area, fractured outboard lite of I.G. glass at transom and dented aluminum face plate and pressure plate.					
Results:	Pass					

Impact #2: Missile Velocity: 50.2 fps					
Impact Area:	Mid-span of the vertical mullion.				
Observations:	Missile hit target area, dented aluminum face plate and pressure plate.				
Results:	Pass				

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



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7.0 Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: ±80.0 psf

POSITIVE PRESSURE

Pressure	Number of Cycles	Average Cycle Time (seconds)	Maximum Deficetion at material (menes)					ies)
Range psf			#1	#2	#3	#4	#5	#6
16 to 40	3500	1.70	0.31	0.72	0.50	0.28	0.60	0.73
0 to 48	300	6.54	0.43	0.82	0.59	0.32	0.70	0.84
40 to 64	600	2.07	0.53	1.02	0.71	0.41	0.90	1.03
24 to 80	100	4.91	0.63	1.23	0.80	0.48	1.09	1.24
Permanent Set (inches)								
			0.34	0.37	0.48	0.17	0.25	0.38

NEGATIVE PRESSURE

Pressure Range	Number of Cycles	Average Cycle Time	Maximum Deflection at Indicator (inches)					
psf		(seconds)	#1	#2	#3	#4	#5	#6
24 to 80	50	6.20	0.52	1.19	0.58	0.45	1.05	1.09
40 to 64	1050	2.61	0.44	0.98	0.51	0.37	0.95	0.95
0 to 48	50	6.26	0.40	0.86	0.48	0.27	0.73	0.73
16 to 40	3350	3.12	0.32	0.77	0.45	0.24	0.61	0.62
		Pei	rmanent	Set (inch	es)			
			0.04	0.02	0.15	0.03	0.07	0.07

Observations: Two (2) $\#12 \times 1-1/4$ " flat head screws sheared at the threshold; no deglazing was observed.

Result: Pass

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



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8.0 Test Equipment:

Cannon: Constructed from steel piping utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic Beam Type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure

measuring device

Deflection Measuring Device: Linear transducers

9.0 Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein.

Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code, Building (2007).

AND

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code, Building (2007).

AND

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code, Building (2007).

Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.



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The service life of this report will expire on the stated Test Record Retention End Date, at which time such materials as drawings, data sheets, samples of test specimens, copies of this report, and any other pertinent project documentation, shall be discarded without notice.

If test specimen contains glazing, no conclusions of any kind regarding the adequacy or inadequacy of the glass in any glazed test specimen(s) 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.

John C. McClane Laboratory Manager Shawn G. Collins, P.E. Laboratory Support Engineer

SP:ck/sc

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

Appendix-A: Sketches (1) Appendix-B: Photographs (2) Appendix-C: Drawings (16)

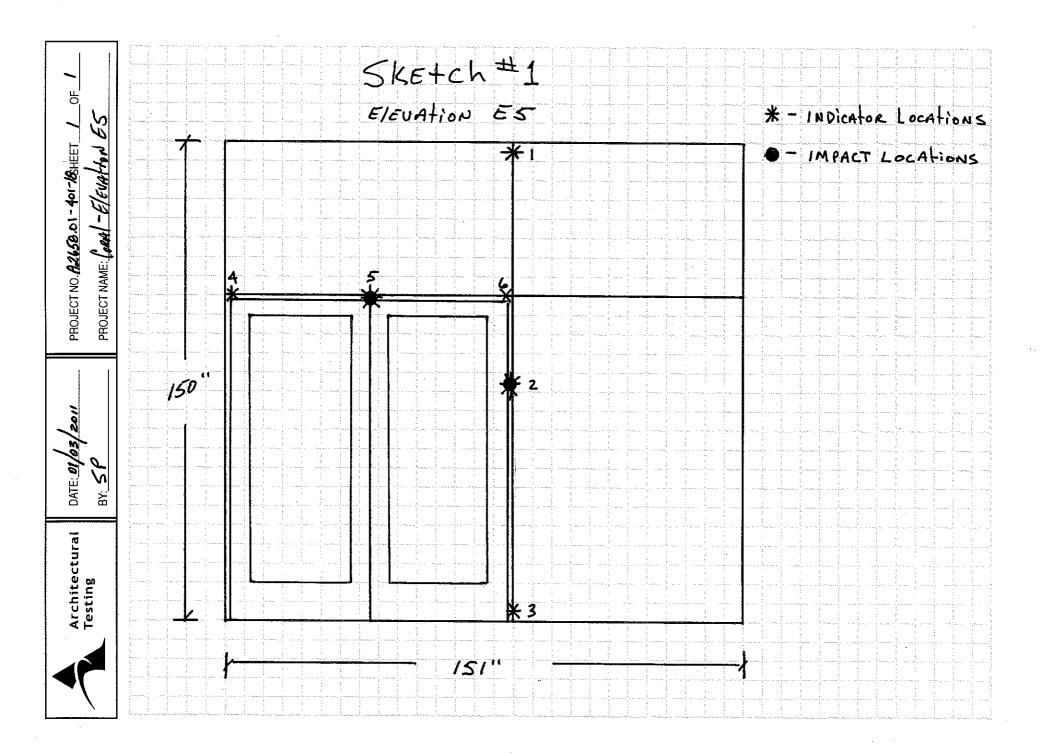
This report produced from controlled document template ATI 00501, issued 11/29/10.



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Appendix A

Sketches





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Appendix B Photographs



Photo No. 1
Elevation E5
Reinforced Captured Mullion with Series 381 Entrance Door



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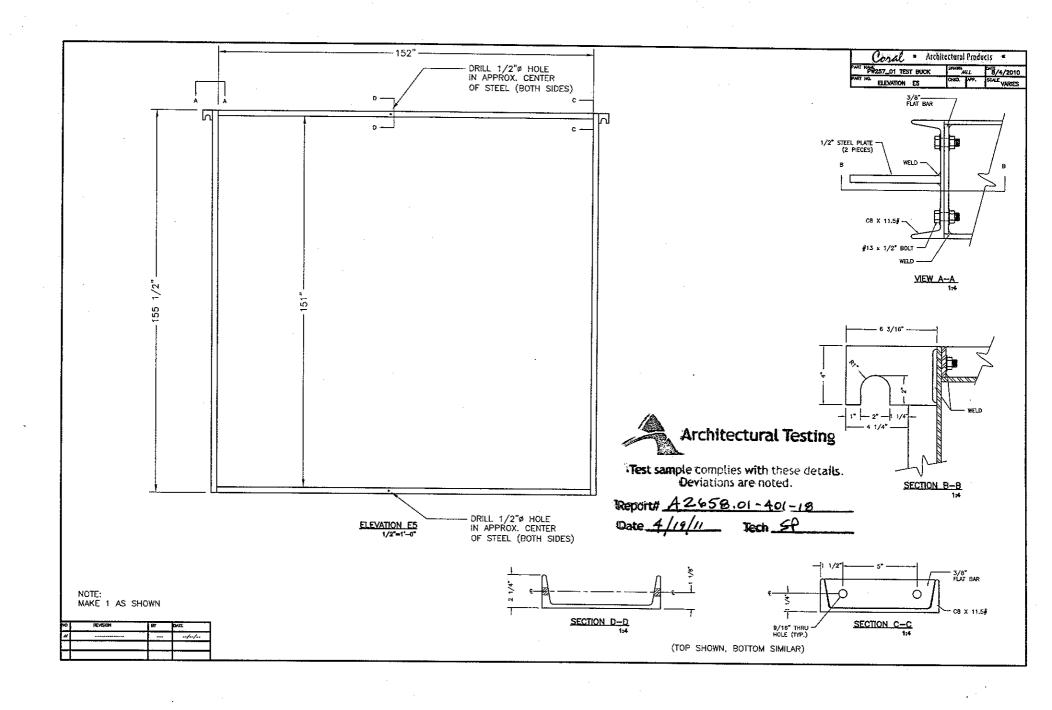
Photo No. 2 Indicator locations for Elevation E5



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Appendix C

Drawings



TEST REPORT DRAWINGS PW257 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 - ET CAPTORED AND B.O. MULLIQUE WITH STEEL -LONG SPAN
3	FRAMING ELEVATION - E2 CAPTURED MULLION WITHOUT STEEL SHORT SPAN.
4	FRAMING ELEVATION - E3-B.S. MULLION WITHOUT STEEL SHORT SPAN-
5	FRAMING ELEVATION E4 CAPTURED MULLION WITH STEEL -LONG SPAN - DRY OLAZE
6	FRAMING ELEVATION FOR DOORS - E5 CAPTURED MULLION WITH STEEL -LONG SPAN-
7	FRAMING DETAILS
σ	FRAMING DETAILS
9	FRAMING DETAILS
10	DOOR AND FRAMING DETAILS
11	DOOR AND FRAMING DETAILS
12	FRAMING DETAILS
13	BILL OF MATERIALS
14	BILL OF MATERIALS AND GLAZING SCHEDULE
15	DIE DRAWINGS

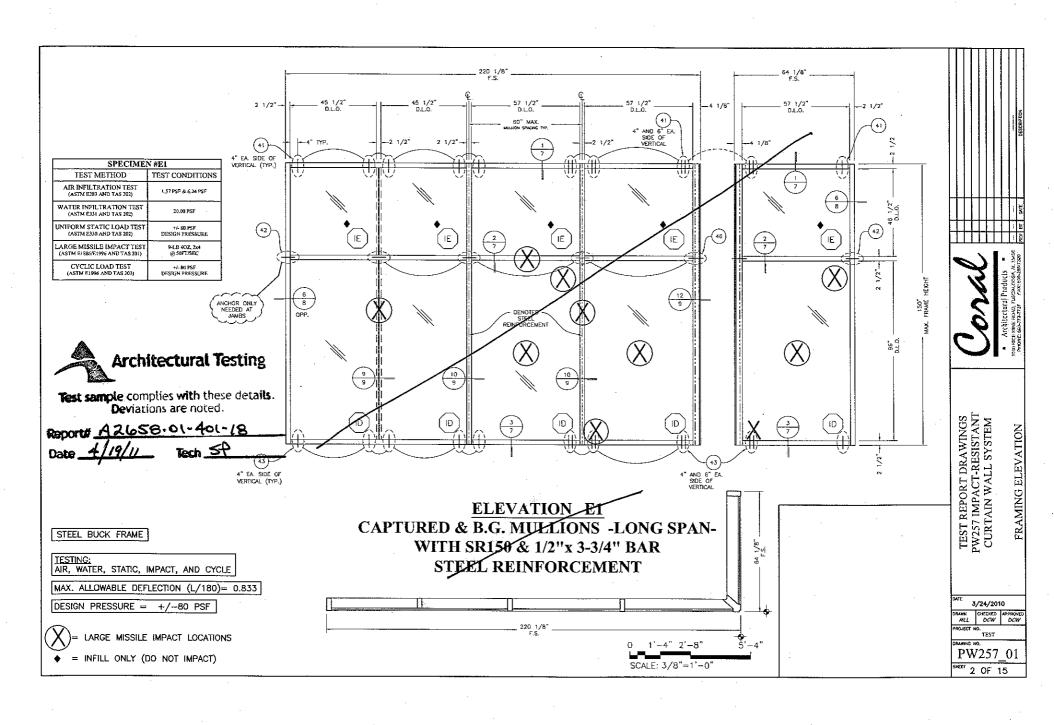
D.L.O. = DAY LIGHT OPENING

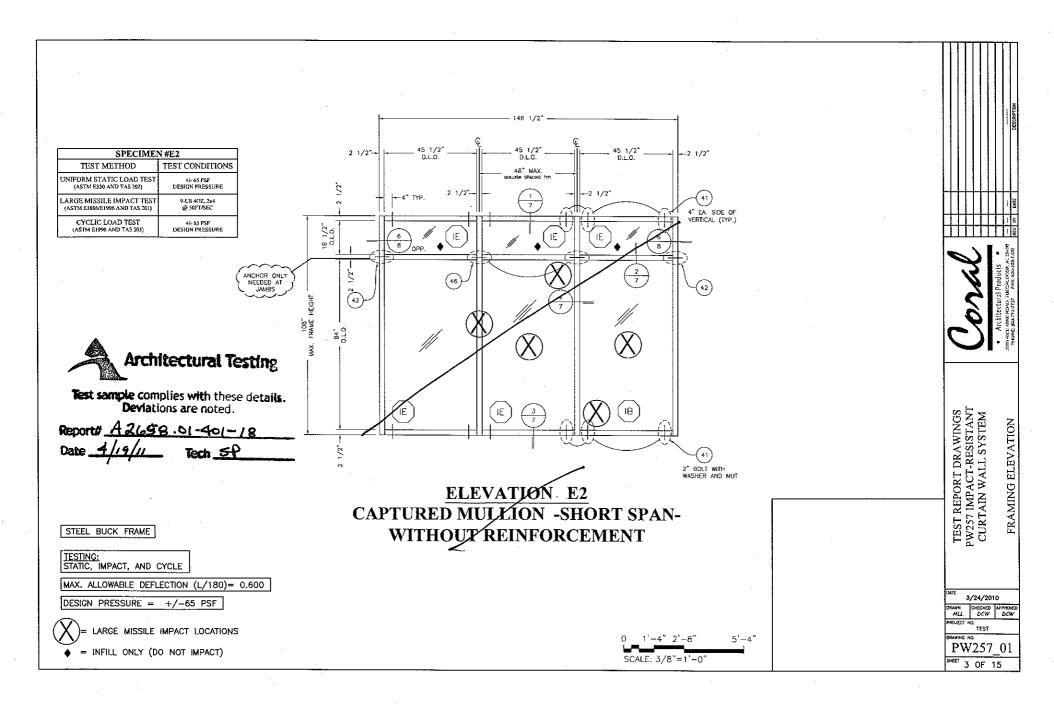
D.O.H. = DOOR OPENING HEIGHT

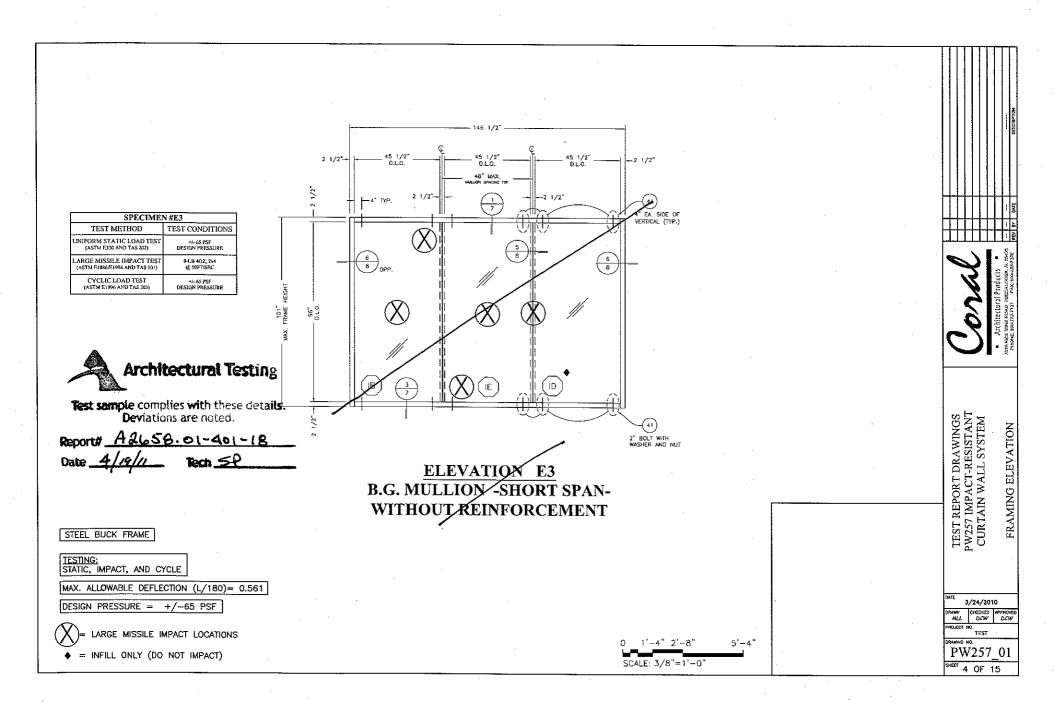


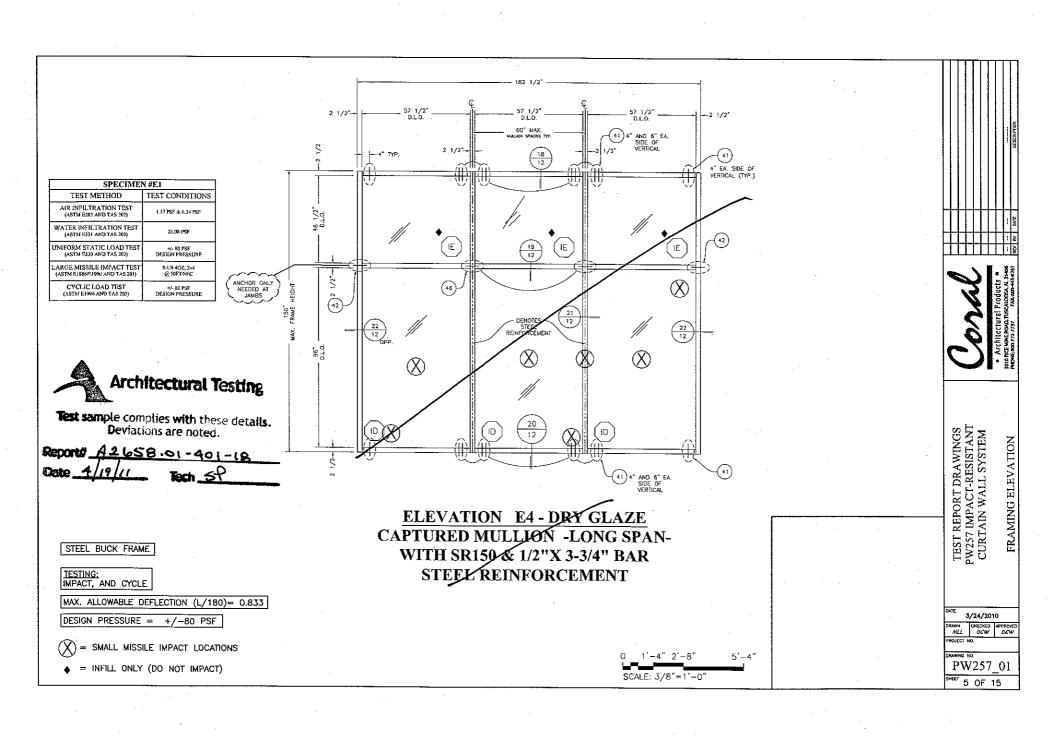
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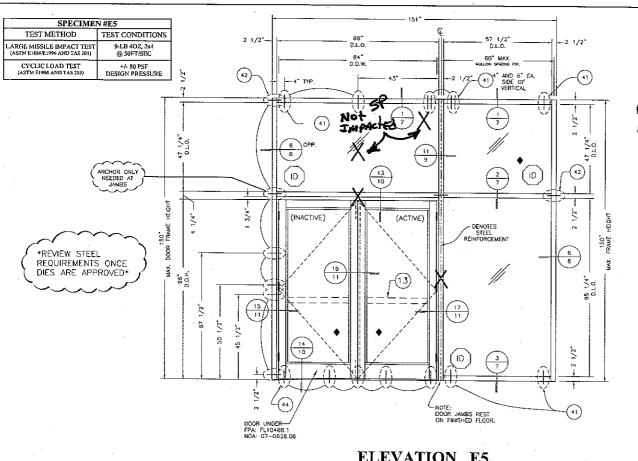
TEST PW257 01







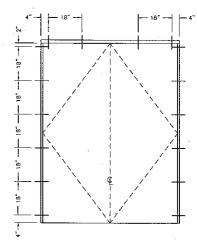






Test sample complies with these details.
Deviations are noted.

Reports 42658.01-401-16



LOCATIONS FOR DOOR SUB-FRAME ATTACHMENT TO CURTAIN WALL ALUMINUM

ELEVATION E5

CAPTURED MULLION -LONG SPAN-WITH SR150 & 3/4" x 3 5/4" BAR STEEL REINFORCEMENT FOR SERIES 381 ENTRANCE DOORS

STEEL BUCK FRAME TESTING: IMPACT, AND CYCLE

MAX. ALLOWABLE DEFLECTION (L/180)= 0.833

DESIGN PRESSURE = $\pm /-80$ PSF

= LARGE MISSILE IMPACT LOCATIONS

= INFILL ONLY (DO NOT IMPACT)

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

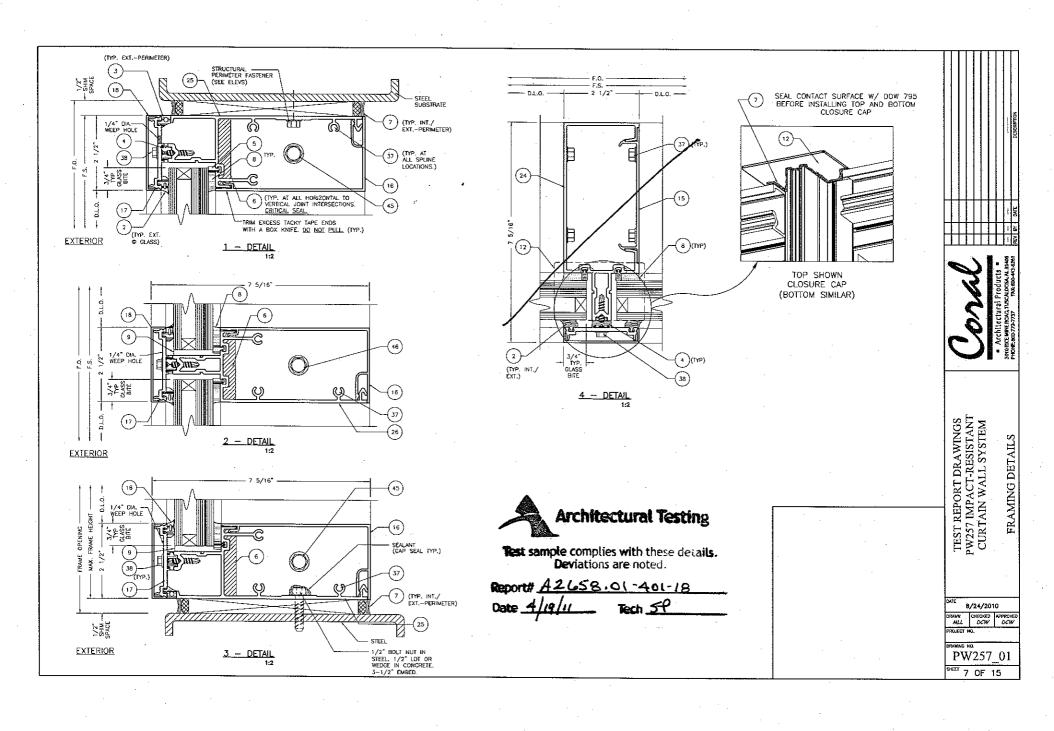
TEST REPORT DRAWINGS PW257 IMPACT-RESISTANT CURTAIN WALL SYSTEM

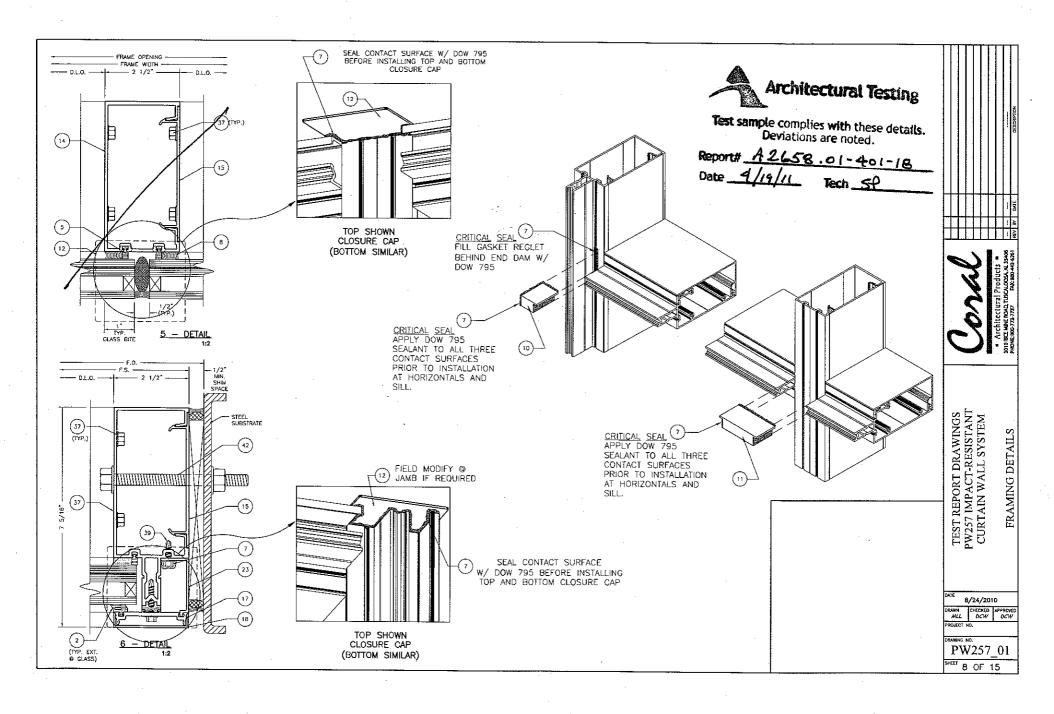
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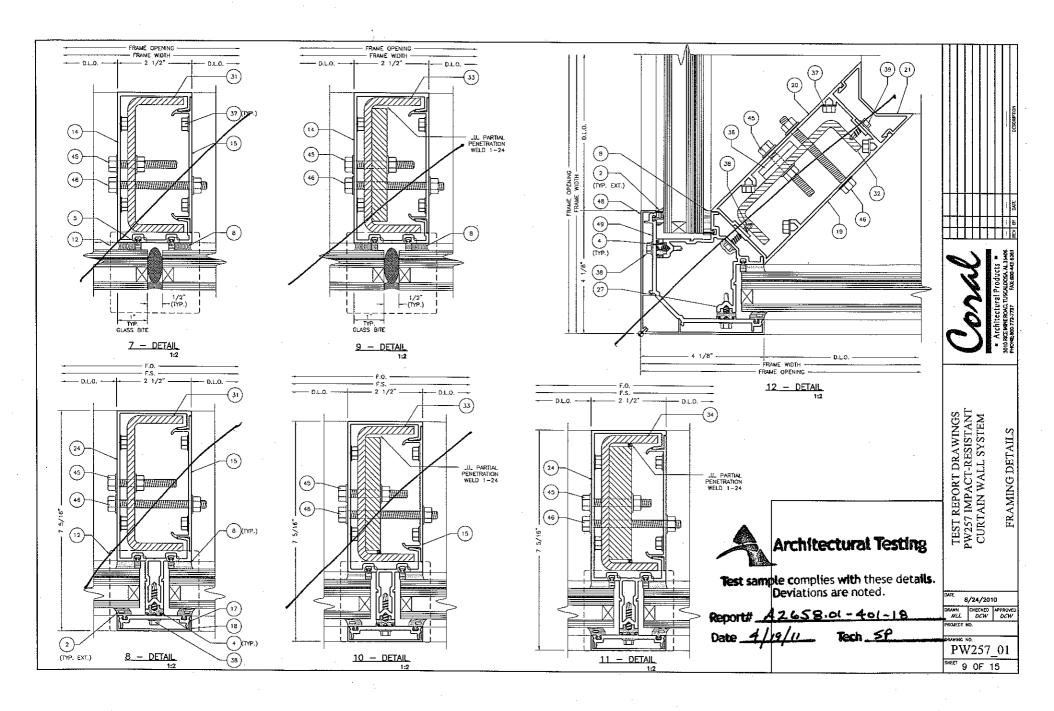
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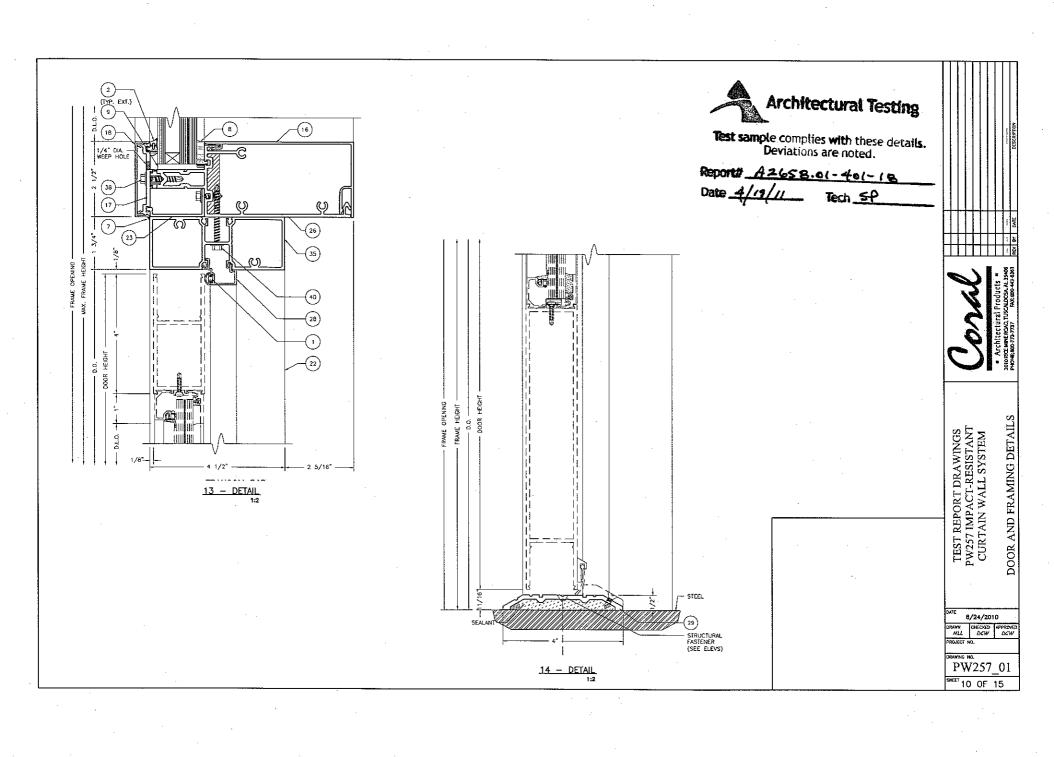
PW257 01

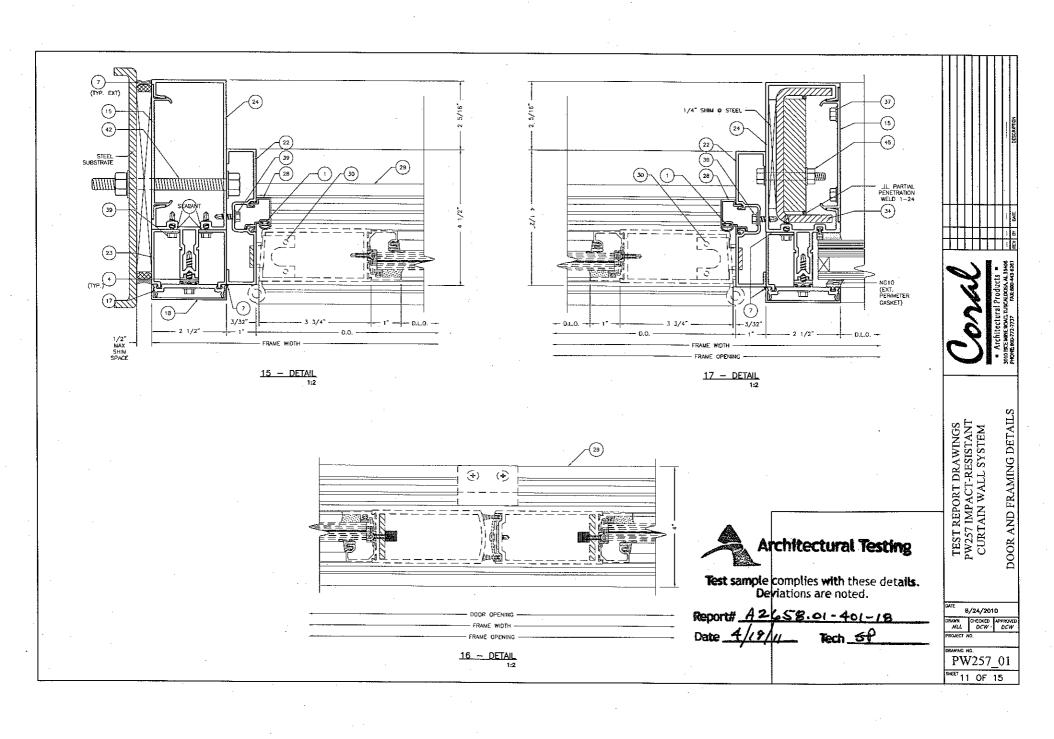
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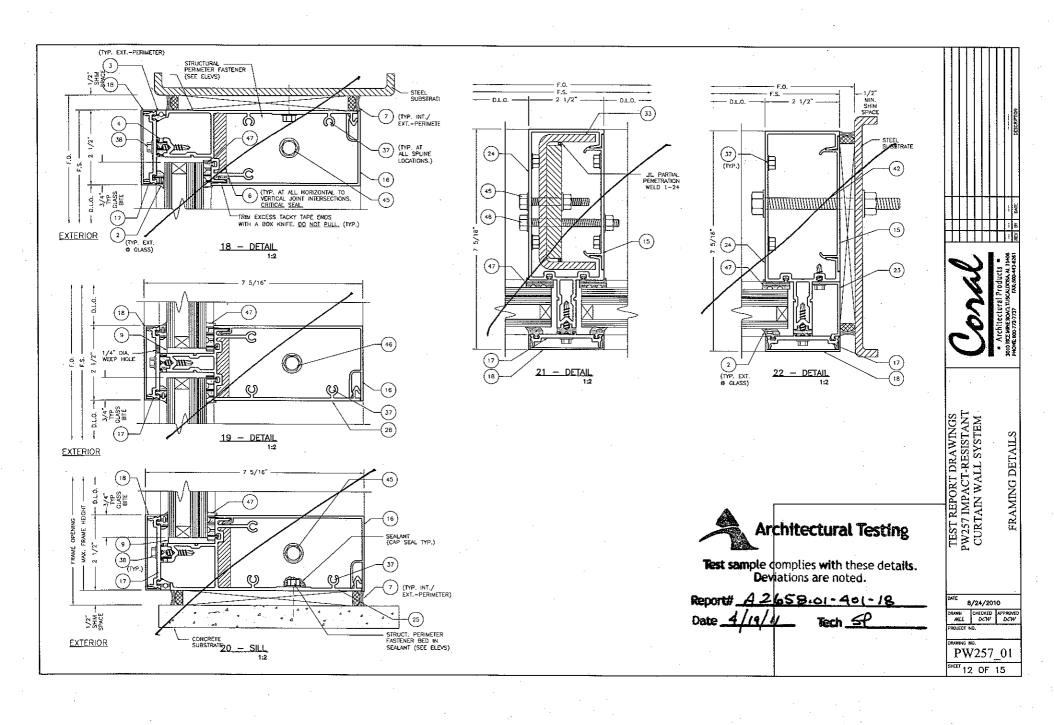












·			BILLOE	MATERIALS		
ITEM NO.	P/N	DESCRIPTION	DILL OF .			
1 I EM INCA	NG5			MATERIAL	MANUFACTURER	3NOTES
<u> </u>	NG10	BULB GASKET - DOORFRAME STOP	0.165 SPACE	EPDM	VARIES	
3	NG10 NG11	EXTERIOR GLAZING GASKET	0.250 SPACE	EPDM	VARIES	
3		EXTERIOR PERIMETER GASKET	0.300 SPACE	EPDM	VARIES	
··	NG12	PRESSURE 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	SB18	SETTING BLOCK @ SILL & HORIZONTAL	1.562 X 0.188 X 4.000	EPDM	VARIES	2 PER LITE
10	SP204	END DAM @ CAPTURED MULLION	1.287 X 1.787 X 0.745	EVA FOAM	CORAL INDUSTRIES, INC.	LOCATE 1 @ EACH END OF HORIZONTAL
11	SP208	BRIDGE DAM & B.G. MULLION -	- 3.123 X 1.562 X 0.745	EVA FOAM	CORAL INDUSTRIES, INC.	LOCATE 1 @ HORIZONTAL AND B.S. MULLION-
12	SP211	MULLION CAP	3.000 X 2.691 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	FWHST	B.C. MULLION	2.500 X 5.000 X 0.004	- 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-TE ALUMINUM	CORAL INDUSTRIES, TNC.	
20	PW209	MALE HALF 90 CORNER	1.875 X 0.110 X 0.004	6063-T6-ALUMINUM	CORAL INDUSTRIES, INC.	
21	PW210	- INTERIOR-CORNER TRIM	2.500 X 1.268 X 0.076	0003 TO ALUMINUM	CORAL INDUSTRIES, INC.	
22	PW214	SUB DOORFRAME	1.000 X 4.500 X 0.080	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
23	PW613	POCKET FILLER FOR PW650	0.937 X 1.943 X 0.078	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
24	PW650	VERTICAL MULLION	2.500 X 6.593 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
25	PW652	HEAD/SILL	2.390 X 6.495 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
. 26	PW655	INTERMEDIATE HORIZONTAL	2.390 X 6.495 X 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC.	
27	PW656	GLAZING TEE - 90' CORNER	3.334 X 3.331 X 0.094	- AUMINIUM 6063-T6 AI LIMINIUM -	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)



Test sample complies with these details.

Deviations are noted.

Report# <u>A2658.01-401-78</u>

Date <u>4/19/11</u> Tech <u>5P</u>

Coral Products

TEST REPORT DRAWINGS PW257 IMPACT-RESISTANT CURTAIN WALL SYSTEM

DRAWN CHECKED APPROVED DCW PROJECT NO.

PW257_01

	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	-SR501		4:562 X 1:258 X 0:250	A36_STFFI	VARIFS	STEEL REINFORCEMENT FOR (A) AND (A)		
33		- SR150 WITH REINFORCEMENT BAR	3.750 X 0.500	- A36-STEEL	VARIES -	STEEL REINFORCEMENT FOR (4) AND (6)		
34		SR150 WITH REINFORCEMENT BAR 5	4" 3.750 X 0.750	A36 STEEL	VARIES	STEEL REINFORCEMENT FOR (4) 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 X1.475 X .180	STEEL,	VARIES	,		
37	AS16	FASTENER	#14 X 1" HHSTS	STEEL	VARIES	TYP, SPLINE SCREW		
38	A\$32	FASTENER	#12 x 1-1/4" HWH #3 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"X3-1/2" MIN. EMBED WEDGE ANCHOR POWERS	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	NC16-	BRY GLAZE INTERIOR SPACER GASKET	9.266 SPACE	EPDM	VARIES -			
48	PW658	CORNER FACE COVER	4.051 X-:500 X-0:078	6063-T6 ALUM	CORAL INDUSTRIES, INC.			
49	PW654	CORNER PRESSURE BAR	- 3.954 X 3.954 X .125	6063-T6 ALUM	CORAL INDUSTRIES, INC.			
50	SP214	CORNER MULLION CAP	4.000 X 3.826 X 0.048	6063-16 ALUM	CORAL INDUSTRIES, INC.	LOCATE ® TOP AND BOTTOM OF VERTICAL CORNER MULLION		

	GLAZING SCHEDULE							
GLASS MARK	GLASS DESCRIPTION	MANUFACTURER	MAXIMUM D.L.O. SIZE (INCHES)	SQUARE FEET	MAXIMUM DESIGN PRESSURE (PSF)			
P	1-5/16" INSULATED -1/4" H.S1/2" AIR SPACER -1/4" H.S DUPONT BUTCHE 090 PBV INTERLAYER N.O.A. #	DUPONT	57-1/2"-X 96"-	38.3	± 80			
(B)	1-5/16" INSULATED -1/4" H.S1/2" AIR SPACER -1/4" H.S. - 090 SAFLEX PVB INTERLAYER -1/4" H.S. N.O.A. #	SOLUTIA	45-1/2" X 96"	30.3	± 80			
(ID)	15/16" INSULATED -1/4" H.S1/2" AIR SPACER -1/4" H.S. -SENTRY GLASS PWS .090 -1/4" H.S.	DUPONT	57-1/2" X 96"	38.3	± 80			



TEST REPORT DRAWINGS PW257 IMPACT-RESISTANT CURTAIN WALL SYSTEM

Architectural Testing

Test sample complies with these details 18/24/2010
Deviations are noted.

PROJECT NO.

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