GEORGIA OFFICE
1701 Westfork Drive, Suite 106
Lithia Springs, GA 30122
HTLTEST.COM
P: 888.477.2454
F: 770.941.2930

October 31, 2011

William Smith, Sr.
Coral Architectural Products
3010 Rice Mine Rd.
Tuscaloosa, Alabama 35406

Re: PW-251 Curtain Wall System

Dear Mr. Smith;

All testing conducted for the above mentioned product, reported in HTL test report # G402-0501-06 was performed in strict accordance with the current editions of ASTM E283, E330, and E331. The results are valid per the latest editions of said standards.

If you have any further questions regarding the attached reports, please contact our office.

Sincerely,

HURRICANE TESTING LABORATORY, LLC

VINU J. ABRAHAM LICENSE No. 53820 STATE OF FLORIDA PROFESSIONAL ENGINEER

Vinu J. Abraham, P.E.
FL Reg. # 53820

HURRICANE TEST LABORATORY, LLC
TESTING AND EVALUATION SOLUTIONS
1701 WESTFORK DRIVE, SUITE 106
LITHIA SPRINGS, GEORGIA 30122
(770) 941-6916
FAX (770) 941-2930
www.htltest.com

MANUFACTURER'S IDENTIFICATION

1.0 NAME OF APPLICANT: CORAL ARCHITECTURAL PRODUCTS
3010 Rice Mine Road
Tuscaloosa, Alabama 35406
(800) 772-7737

2.0 CONTACT PERSON: J.D. Williams

3.0 HTL TEST NOTIFICATION #: N/A

4.0 HTL LAB CERTIFICATION: Miami-Dade County (04-0806.02) and Florida Building Code (#TST3892)

PRODUCT IDENTIFICATION

5.0 Product Type: Curtain Wall System

6.0 Model Number: PW251

7.0 Performance Class: +/- 60 psf

8.0 Overall Sample Size: 182-1/2" (w) x 144" (h)

9.0 Configuration: The unit consisted of three (3) bays, two (2) lites per bay. See Coral drawings "PW251", sheet 2 of 7 for an elevation of these test units.

10.0 Drawing: This report is incomplete if not accompanied by Coral Architectural Products Drawing "PW251-HTL" and accompanying sheets bearing the raised seal of Hurricane Test Laboratory, LLC.

11.0 Sample Source: Samples provided by Coral Architectural Products.

PRODUCT DESCRIPTION

12.0 MATERIAL CHARACTERISTICS:

12.1 Frame Construction: All of the main members of the frame were fabricated using the aluminum extrusions (6063-T6) with the following cross-sectional properties:

Description	Item #	Part #
Captured Mullion	14	PW150
Head/Sill	16	PW152
Intermediate Horizontal	17	PW155
Mullion Filler	18	PW202
Jamb Pocket Filler	22	PW213
Interior Trim	19	PW203

The following procedures (typical) were utilized when assembling each individual frame:
Frame Corner Construction: At each frame corner, the vertical frame member ran through while the horizontal frame member was square cut, butted, and mechanically fastened to the vertical frame member using #14 x 1" HHSTS fasteners that passed through the vertical and threaded into the horizontal member's screw splines.
Mullion Reinforcement: The center vertical mullions were both reinforced using a 4.500" x 1.875" x 0.250" (144" long) steel reinforcing channel (Part # SR150). The steel channel was attached to the mullion at head, sill, and mid horizontal locations using a ¼"-20 x 1-1/4" bolt with washer and nut.
Frame Joint Sealant: Each frame joint was sealed using strips of Schnee-Morehead SM5601 TackyTape® Industrial Sealant Tape sealant at the exterior side only.

VINU J. ABRAHAM
No. 53820
STATE OF FLORIDA
PROFESSIONAL ENGINEER
ENGINEER OF RECORD
Vinu J. Abraham, P.E.
FL Reg. # 53820
11/2/11

Mullion End Cap @ Intermediate Mullion and Jambs: There was a mullion end cap (Item #8, Part # SP209) applied to the top and bottom of each mullion that provided a uniform surface against which the perimeter seals could be applied. Each cap was compressed in place to the adjacent mullion. There was a bead of Dow Corning 995 Structural Silicone Sealant applied to all frame surfaces that the mull cap came in contact with prior to its installation.
End Dams: There was an end dam (Item #6, Part # SP203) used at each end of all horizontal members (head, intermediate and sill) that was sealed at all three contact surfaces using Dow Corning 995 structural silicone sealant. This part created a zone dam at the bottom of each glass lite so infiltrated water could weep through a series of weep holes to the exterior.

12.2 Pressure Bar and Snap Cover Assembly: Following are the extrusions used in the fabrication of all pressure bar and exterior snap covers used in this sample:

Description	Item #	Part #
Pressure Bar	20	PW204
Vertical/Horizontal Face Cover	21	PW205

The following procedures (typical) were utilized when installing the pressure bars:
Pressure Bar: Each continuous pressure bar was square cut at each end and secured to the adjacent framing member using a single row of #12-14 x 1 1/4" HWH #3 self drilling screws located 1 ½" from each end and approximately 9" on center. NOTE: A continuous strip of 0.140" x 0.625" EPDM thermal separator gasket (Part # NG12) was inserted into the center reglet of each pressure bar prior to its installation to the vertical and horizontal mullions. NOTE: A continuous strip of (Item # 2) Part Number NG11 was inserted into the reglet on the perimeter side of the pressure bar to serve as a seal and thermal isolator.
Snap Cover Assembly: Each snap cover was attached to the pressure bar by snap-fitting it in place.

12.3 Glazing:

12.3.1 Glass Type: 1" Insulated Glass with the following components:
- ¼" tempered glass
- ½" air space
- ¼" tempered glass

12.3.2 Glazing Method: The glass lites used in this test specimen were glazed using the following (typical) procedures:
Exterior and Interior Side: Using a single row of extruded EPDM gasket (Item #1).

12.3.3 Daylight Opening:

Qty.	Daylight Opening	Glass Bite
3	57-1/2" (w) x 96" (h)	½"
3	57-1/2" (w) x 40-1/2" (h)	

12.4 Weep Holes:

12.4.1 Pressure Bars:

Location	Weep Description
Head Pressure Bar	None used
Sill Pressure Bar	¼" diameter weep holes located 6" from each end of horizontal pressure bar for a total of two per lite.
Intermediate Horizontal Pressure Bar	¼" diameter weep holes located 6" from each end of horizontal pressure bar for a total of two per lite.

12.4.2 Horizontal Face Covers:

Location	Weep Description
Head Pressure Bar	None used
Sill Face Cover	¼" diameter weep holes located 6" from each end on the underneath side for a total of two per lite.

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Location	Weep Description
Intermediate Horizontal Pressure Bar	¼" diameter weep holes located 6" from each end on the underneath side for a total of two per lite.

12.5 Sealants Used:

Location	Sealant
Perimeter Sealant	Dow 795 Structural Silicone Sealant
Frame Joint Sealant	Dow 995 Structural Silicone Sealant

INSTALLATION

13.0 Following is a description of how this sample was installed in the steel opening when viewed from the exterior:

Location	Anchor Schedule
Frame Head	The frame head was attached using six (6) ½"-13 x 2" HH bolts, located 4" from each vertical.
Frame Sill	The frame sill was attached using six (6) ½"-13 x 2" HH bolts, located 4" from each vertical.
Frame Jambs	The frame jamb was attached using two (2) [one per side] ½"-13 x 2" HH bolts at center of mid horizontal member.

TEST RESULTS

14.0 SUMMARY OF RESULTS:

Test Method	Test Conditions	Measured	Allowed
Air Infiltration Test (ASTM E283)	1.57 psf	0.01 cfm/ft^2	0.06 cfm/ft^2
	6.24 psf	0.01 cfm/ft^2	0.06 cfm/ft^2
Water Infiltration Test (ASTM E331)	20 psf	PASSED per ASTM E331	
Uniform Load Deflection Test (ASTM E330)	+ 60 psf	**Deflection**	
		Vertical Mullion (left)	
		0.59"	0.82"
		Center Horizontal	
		0.05"	0.32"
Uniform Load Deflection Test (ASTM E330)	- 60 psf	Vertical Mullion (left)	
		0.63"	0.82"
		Center Horizontal	
		0.04"	0.32"

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Test Method	Test Conditions	Measured	Allowed
Water Infiltration Test (ASTM E331)	20 psf	PASSED per ASTM E331	
Uniform Load Structural Test (ASTM E330)	+ 90 psf	**Permanent Set**	
		Vertical Mullion (left)	
		0.06"	0.28"
		Center Horizontal	
		0.01"	0.11"
	- 90 psf	Vertical Mullion (left)	
		0.05"	0.28"
		Center Horizontal	
		0.01"	0.11"

- **THESE TESTS WERE COMPLETED ON 5/3/06**

MISCELLANEOUS INFORMATION

15.0 CERTIFICATION & DISCLAIMER STATEMENT:

All tests performed on this test specimen were conducted in accordance with the specifications of the applicable codes, standards & test methods listed below by the Hurricane Test Laboratory, LLC located at 1701 Westfork Drive, Suite 106, Lithia Springs, Georgia 30122. HTL does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested at HTL. HTL is not owned, operated or controlled by any company manufacturing or distributing products it tests. This report is only intended for the use of the entity named in section 1.0 of this report. Detailed assembly drawings showing wall thickness of all members, corner construction and hardware applications are on file and have been compared to the test specimen submitted. A copy of this test report along with representative sections of the test specimen will be retained at HTL for a period of four (4) years. All results obtained apply only to the specimen tested and they do indicate compliance with the performance requirements of the test methods and specifications listed in the following section. Please note that a copy of this report will be forwarded to the AAMA Validator if requested and that this report does not constitute AAMA certification of this product, which may only be granted by the AAMA Validator.

16.0 APPLICABLE CODES, STANDARDS & TEST METHODS:

ASTM E283-04 - Standard Test Method For Determining The Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences.
ASTM E330-02 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
ASTM E331-00 – Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
AAMA 501-05 – Methods of Tests for Exterior Walls

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11/2/11

17.0 LIST OF OFFICIAL OBSERVERS:

Vinu J. Abraham, P.E. – HTL, Managing Partner
José E. Colón, E.I. – HTL, Operations Manager
Kevin Rouse – HTL, Engineering Assistant
Ian McKenzie – HTL, Test Technician
Al Fite – HTL, Test Technician
J.D. Williams – CORAL ARICHITECTURAL PRODUCTS
David Long – CORAL ARCHITECTURAL PRODUCTS
Jeff Law – CORAL ARCHITECTURAL PRODCUTS

ENGINEER OF RECORD

11/2/11

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2.0 CONTACT PERSON: J.D. Williams

3.0 HTL TEST NOTIFICATION #: N/A

4.0 HTL LAB CERTIFICATION: Miami-Dade County (04-0806.02) and Florida Building Code (#TST3892)

PRODUCT IDENTIFICATION

5.0 Product Type: Curtain Wall System

6.0 Model Number: PW251

7.0 Performance Class: +/- 60 psf

8.0 Overall Sample Size: 146-1/2" (w) x 144" (h)

9.0 Configuration: The unit consisted of three (3) bays, two (2) lites per bay. See Coral drawings "PW251", sheet 3 of 7 for an elevation of these test units.

10.0 Drawing: This report is incomplete if not accompanied by Coral Architectural Products Drawing "PW251-HTL" and accompanying sheets bearing the raised seal of Hurricane Test Laboratory, LLC.

11.0 Sample Source: Samples provided by Coral Architectural Products.

PRODUCT DESCRIPTION

12.0 MATERIAL CHARACTERISTICS:

12.1 Frame Construction: All of the main members of the frame were fabricated using the aluminum extrusions (6063-T6) with the following cross-sectional properties:

Description	Item #	Part #
Captured Mullion	14	PW150
Butt Glazed Mullion	15	PW151
Head/Sill	16	PW152
Intermediate Horizontal	17	PW155
Mullion Filler	18	PW202
Jamb Pocket Filler	22	PW213
Interior Trim	19	PW203

The following procedures (typical) were utilized when assembling each individual frame:
Frame Corner Construction: At each frame corner, the vertical frame member ran through while the horizontal frame member was square cut, butted, and mechanically fastened to the vertical frame member using #14 x 1" HHSTS fasteners that passed through the vertical and threaded into the horizontal member's screw splines.
Mullion Reinforcement: The center vertical mullions were both reinforced using a 4.5000" x 1.8750" x 0.1345" (144" long) steel reinforcing channel (Part # SR151). The steel channel was attached to the mullion at head, sill, and mid horizontal locations using a ¼"-20 x 1-1/4" bolt with washer and nut.

VINU J. ABRAHAM LICENSE No. 53820 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Vinu J. Abraham, P.E.
FL Reg. # 53820

Frame Joint Sealant: Each frame joint was sealed using strips of Schnee-Morehead SM5601 TackyTape® Industrial Sealant Tape sealant at the exterior side only.
Mullion End Cap @ Intermediate Mullion and Jambs: There was a mullion end cap (Item #8, Part # SP209) applied to the top and bottom of each mullion that provided a uniform surface against which the perimeter seals could be applied. Each cap was compressed in place to the adjacent mullion. There was a bead of Dow Corning 995 Structural Silicone Sealant applied to all frame surfaces that the mull cap came in contact with prior to its installation.
End Dams: There was an end dam (Item #6, Part # SP203) used at each end of all horizontal members (head, intermediate and sill) that was sealed at all three contact surfaces using Dow Corning 995 structural silicone sealant. This part creates a zone dam at the bottom of each glass lite so infiltrated water could weep through a series of weep holes to the exterior.

12.2 Pressure Bar and Snap Cover Assembly: Following are the extrusions used in the fabrication of all pressure bar and exterior snap covers used in this sample:

Description	Item #	Part #
Pressure Bar	20	PW204
Vertical/Horizontal Face Cover	21	PW205

The following procedures (typical) were utilized when installing the pressure bars:
Pressure Bar: Each continuous pressure bar was square cut at each end and secured to the adjacent framing member using a single row of #12-14 x 1 1/4" HWH #3 self drilling screws located 1 ½" from each end and approximately 9" on center. NOTE: A continuous strip of 0.140" x 0.625" EPDM thermal separator gasket (Part # NG12) was inserted into the center reglet of each pressure bar prior to its installation to the vertical and horizontal mullions. NOTE: A continuous strip of (Item # 2) Part Number NG11 was inserted into the reglet on the perimeter side of the pressure bar to serve as a seal and thermal isolator.
Snap Cover Assembly: Each snap cover was attached to the pressure bar by snap-fitting it in place.

12.3 Glazing:

12.3.1 Glass Type: 1" Insulated Glass with the following components:
- ¼" tempered glass
- ½" air space
- ¼" tempered glass

12.3.2 Glazing Method (Captured): The glass lites used in this test specimen were glazed using the following (typical) procedures:
Exterior and Interior Side: Using a single row of extruded EPDM gasket (Item #1).

12.3.3 Glazing Method (Butt Glazed): The glass lites used in this test specimen were glazed using the following (typical) procedures:
Interior Side: Using a single row of extruded 0.194" x 0.250" EPDM gasket (Item #4) and Dow Corning 995 Structural Silicone Sealant.
Exterior Side: Dow Corning 995 Structural Silicone Sealant.

12.3.4 Daylight Opening:

Qty.	Daylight Opening	Glass Bite
3	45-1/2" (w) x 96" (h)	½" (captured)
3	45-1/2" (w) x 40-1/2" (h)	1" (butt-glazed)

12.4 Weep Holes:

12.4.1 Pressure Bars:

Location	Weep Description
Head Pressure Bar	None used
Sill Pressure Bar	¼" diameter weep holes located 10" on each side of vertical mullions for a total of two per lite.

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11/2/11

Location	Weep Description
Intermediate Horizontal Pressure Bar	¼" diameter weep holes located 10" on each side of vertical mullions for a total of two per lite.

12.4.2 Horizontal Face Covers:

Location	Weep Description
Head Pressure Bar	None used
Sill Face Cover	¼" diameter weep holes located 6" from each side of vertical mullions on the underneath side for a total of two per lite.
Intermediate Horizontal Pressure Bar	¼" diameter weep holes located 6" from each side of vertical mullions on the underneath side for a total of two per lite.

12.5 Sealants Used:

Location	Sealant
Perimeter Sealant	Dow 795 Structural Silicone Sealant
Frame Joint Sealant	Dow 995 Structural Silicone Sealant

INSTALLATION

13.0 Following is a description of how this sample was installed in the steel opening when viewed from the exterior:

Location	Anchor Schedule
Frame Head	The frame head was attached using six (6) ½"-13 x 2" HH bolts, located 4" from each vertical.
Frame Sill	The frame sill was attached using six (6) ½"-13 x 2" HH bolts, located 4" from each vertical.
Frame Jambs	The frame jamb was attached using two (2) [one per side] ½"-13 x 2" HH bolts at center of mid horizontal member.

TEST RESULTS

14.0 SUMMARY OF RESULTS:

Test Method	Test Conditions	Measured	Allowed
Air Infiltration Test (ASTM E283)	1.57 psf	0.01 cfm/ft^2	0.06 cfm/ft^2
	6.24 psf	0.02 cfm/ft^2	0.06 cfm/ft^2
Water Infiltration Test (ASTM E331)	20 psf	PASSED per ASTM E331	
Uniform Load Deflection Test (ASTM E330)	+ 60 psf	**Deflection**	
		Vertical Mullion (left)	
		0.82"	0.82"
		Center Horizontal	
		0.05"	0.32"

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11/2/11

Test Method	Test Conditions	Measured	Allowed
Uniform Load Deflection Test (ASTM E330)	- 60 psf	Vertical Mullion (left)	
		0.71"	0.82"
		Center Horizontal	
		0.07"	0.32"
Water Infiltration Test (ASTM E331)	20 psf	PASSED per ASTM E331	
Uniform Load Structural Test (ASTM E330)	+ 90 psf	**Permanent Set**	
		Vertical Mullion (left)	
		0.09"	0.28"
		Center Horizontal	
		0.09"	0.11"
	- 90 psf	Vertical Mullion (left)	
		0.06"	0.28"
		Center Horizontal	
		0.08"	0.11"

- **THESE TESTS WERE COMPLETED ON 5/16/06**

MISCELLANEOUS INFORMATION

15.0 CERTIFICATION & DISCLAIMER STATEMENT:

All tests performed on this test specimen were conducted in accordance with the specifications of the applicable codes, standards & test methods listed below by the Hurricane Test Laboratory, LLC located at 1701 Westfork Drive, Suite 106, Lithia Springs, Georgia 30122. HTL does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products tested at HTL. HTL is not owned, operated or controlled by any company manufacturing or distributing products it tests. This report is only intended for the use of the entity named in section 1.0 of this report. Detailed assembly drawings showing wall thickness of all members, corner construction and hardware applications are on file and have been compared to the test specimen submitted. A copy of this test report along with representative sections of the test specimen will be retained at HTL for a period of four (4) years. All results obtained apply only to the specimen tested and they do indicate compliance with the performance requirements of the test methods and specifications listed in the following section. Please note that a copy of this report will be forwarded to the AAMA Validator if requested and that this report does not constitute AAMA certification of this product, which may only be granted by the AAMA Validator.

16.0 APPLICABLE CODES, STANDARDS & TEST METHODS:

ASTM E283-04 - Standard Test Method For Determining The Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences.
ASTM E330-02 - Standard Test Method for Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
ASTM E331-00 – Standard Test Method for Water Penetration of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference.
AAMA 501-05 – Methods of Tests for Exterior Walls

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11/2/11

17.0 LIST OF OFFICIAL OBSERVERS:

Vinu J. Abraham, P.E. – HTL, Managing Partner
José E. Colón, E.I. – HTL, Operations Manager
Andrew Bush – HTL, Engineering Assistant
Ian McKenzie – HTL, Test Technician
Al Fite – HTL, Test Technician
J.D. Williams – CORAL ARICHITECTURAL PRODUCTS
David Long – CORAL ARCHITECTURAL PRODUCTS
Jim Bennett – CORAL ARCHITECTURAL PRODUCTS

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11/2/11

HTL PRODUCT APPROVAL FOR PW251 CURTAIN WALL SYSTEM

INDEX TO DRAWINGS	
1	INDEX TO DRAWINGS AND NOTES
2	TYPICAL CAPTURED MULLION
3	TYPICAL BUTT GLAZED MULLION
4	FRAMING DETAILS
5	FRAMING DETAILS
6	FRAMING DETAILS
7	BILL OF MATERIALS

ABBREVIATIONS:
D.L.O. = DAY LIGHT OPENING
D.O. = DOOR OPENING

Hurricane Test Laboratory, LLC
HTL, LLC
AS TESTED UNLESS OTHERWISE NOTED
Date 5/26/06
Job# G4012-0501-06

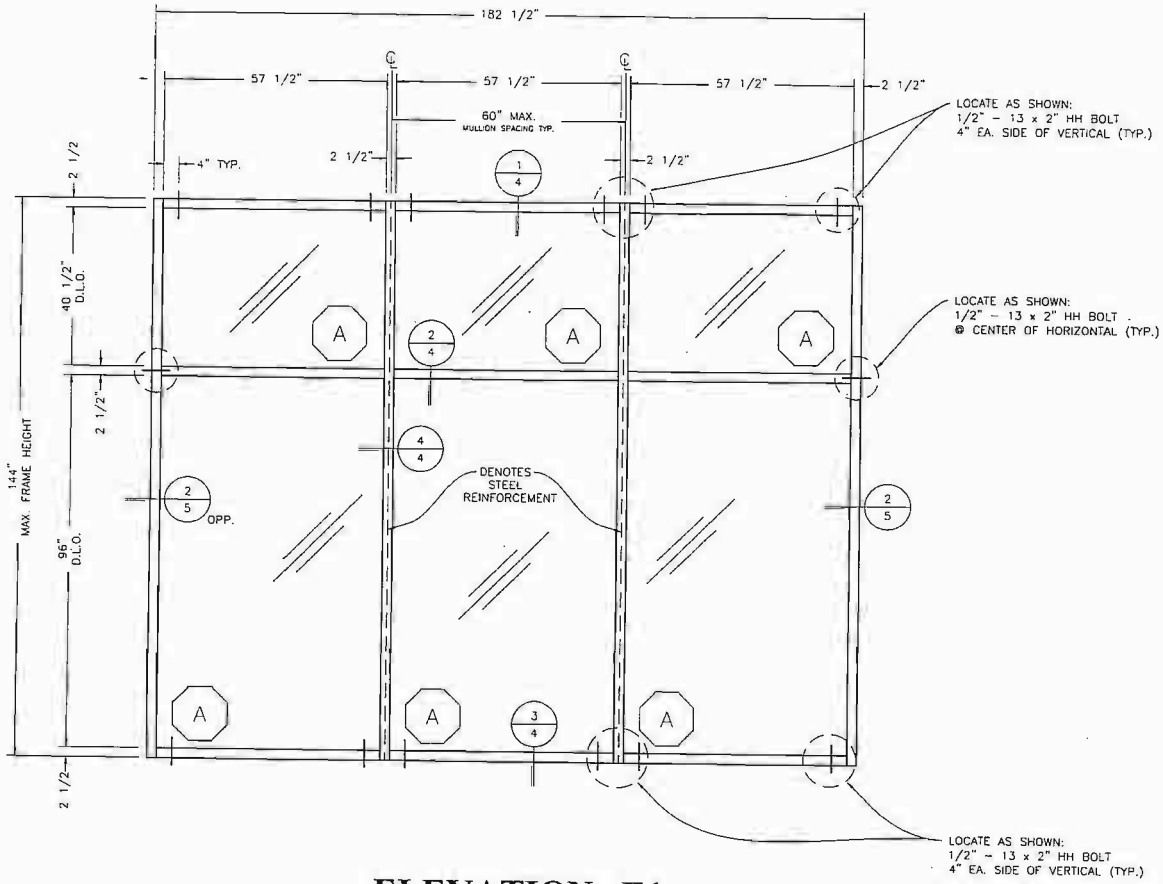
REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-726-7737 FAX: 800-256-7320

HTL PRODUCT APPROVAL FOR PW251 CURTAIN WALL SYSTEM

INDEX TO DRAWINGS AND NOTES

DATE	5/19/2006		
DRAWN	CHECKED	APPROVED	
PCH	JDW	JDW	
PROJECT NO.	HTL		
DRAWING NO.	PW251		
SHEET	1 OF 7		



ELEVATION E1
TYPICAL CAPTURED MULLION

Hurricane Test Laboratory, LLC

AS TESTED UNLESS OTHERWISE NOTED

Date 5/20/06

Job# 0402-0501-06

GLAZING SCHEDULE				
GLASS MARK SYMBOL	GLASS TYPE	MANUFACTURER	MAXIMUM D.L.O. SIZE	MAXIMUM SQUARE FEET
A	¼" TEMPERED OUTER SURFACE, ½" AIR SPACE, ¼" TEMPERED INNER SURFACE	VARIES	57 1/2" x 96"	38.3

0 1'-4" 2'-8" 5'-4"

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

NOTES:
DESIGN PRESSURE = +60/-60 PSF
WATER @ 20 P.S.F.
AIR @ 6.24 P.S.F.
WATER, AIR, AND STATIC TESTING

DESCRIPTION	BY	DATE

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7220

HTL PRODUCT APPROVAL FOR
PW251 CURTAIN WALL SYSTEM

TYPICAL CAPTURED MULLION

DATE 5/19/2006

DRAWN	CHECKED	APPROVED
PCH	JDW	JDW

PROJECT NO. HTL

DRAWING NO. PW251

SHEET 2 OF 7

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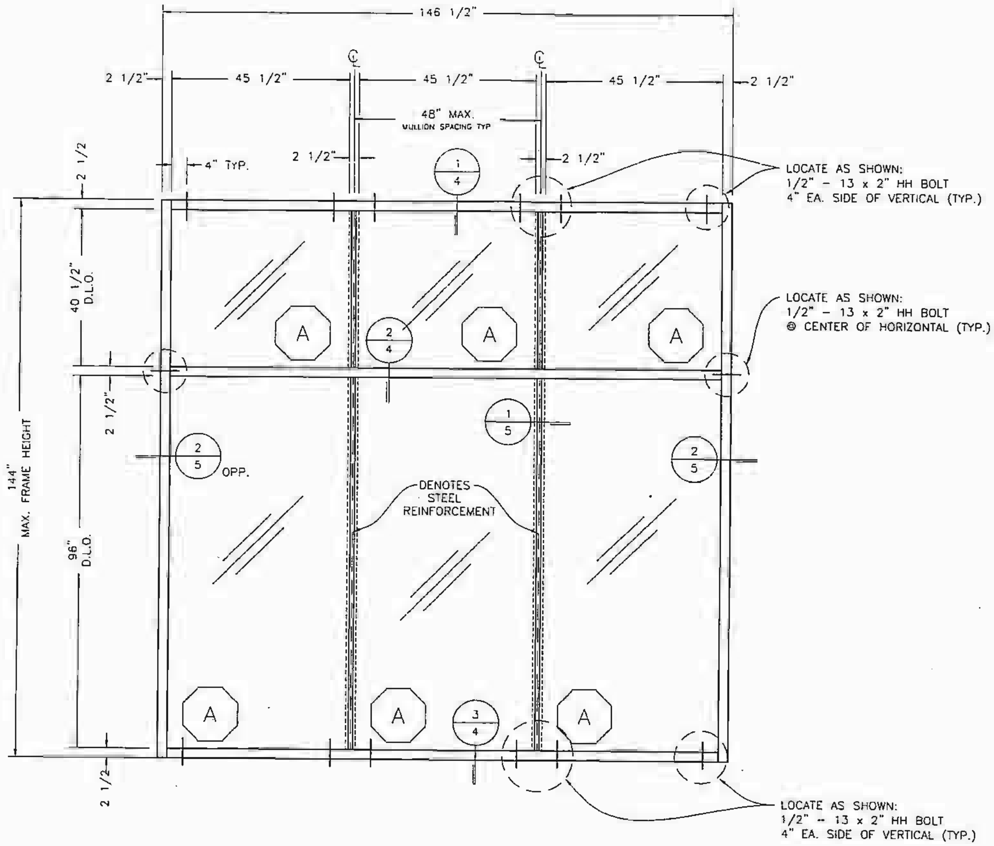


Hurricane Test Laboratory, LLC
HTL LLC
AS TESTED UNLESS OTHERWISE NOTED
Date 5/26/06
Job# 6402-0501-06

ELEVATION E2
TYPICAL BUTT GLAZED MULLION

GLAZING SCHEDULE

GLASS MARK SYMBOL	GLASS TYPE	MANUFACTURER	MAXIMUM D.L.O. SIZE	MAXIMUM SQUARE FEET
A	¼" TEMPERED OUTER SURFACE, ½" AIR SPACE, ¼" TEMPERED INNER SURFACE	VARIES	45 1/2" x 96"	30.3

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

TEST PARAMETERS:
DESIGN PRESSURE = +60/-60 PSF
WATER @ 20 P.S.F.
AIR @ 6.24 P.S.F.
WATER, AIR, AND STATIC TESTING

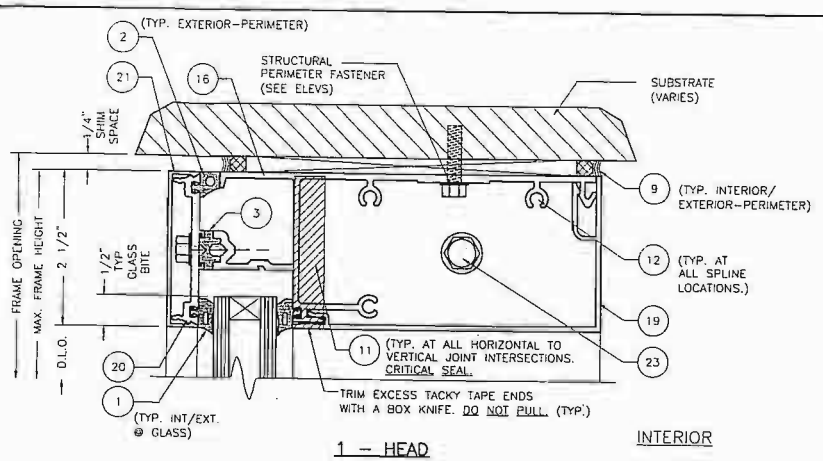
REV	BY	DATE	DESCRIPTION

Coral Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7320

HTL PRODUCT APPROVAL FOR PW251 CURTAIN WALL SYSTEM

TYPICAL BUTT GLAZED MULLION

DATE 5/19/2006
DRAWN PCH CHECKED JDW APPROVED JDW
PROJECT NO. HTL
DRAWING NO. PW251
SHEET 3 OF 7



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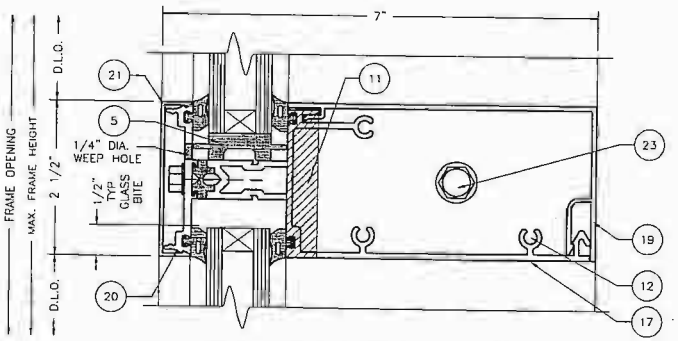
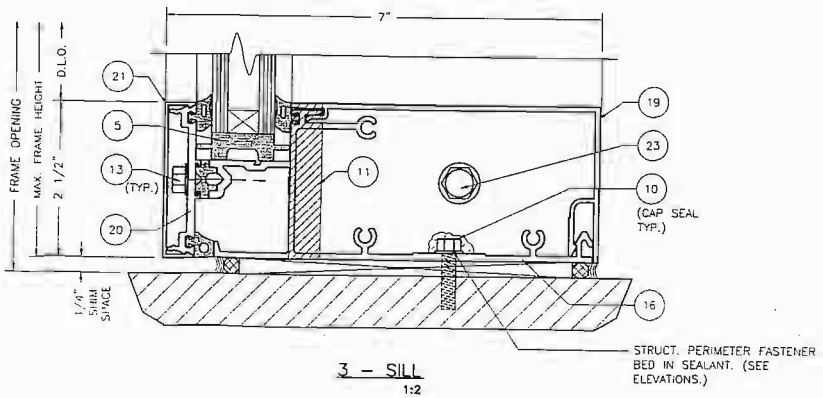
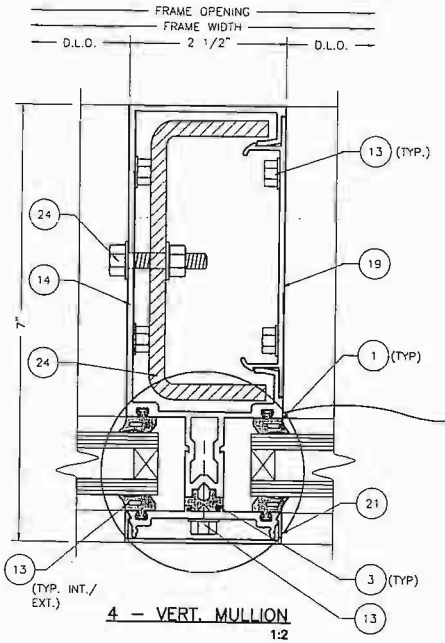
1:2



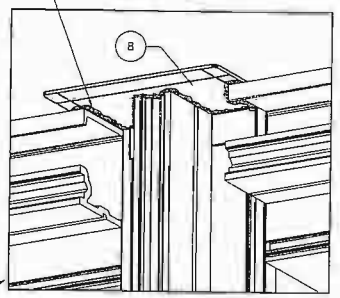
2 – INTERMEDIATE HORIZ. MULLION
1:2



3 – SILL
1:2



4 – VERT. MULLION
1:2



Hurricane Test Laboratory, LLC

AS TESTED UNLESS OTHERWISE NOTED

Date 5/26/06

Job# 0401-0501-06

Coral Architectural Products

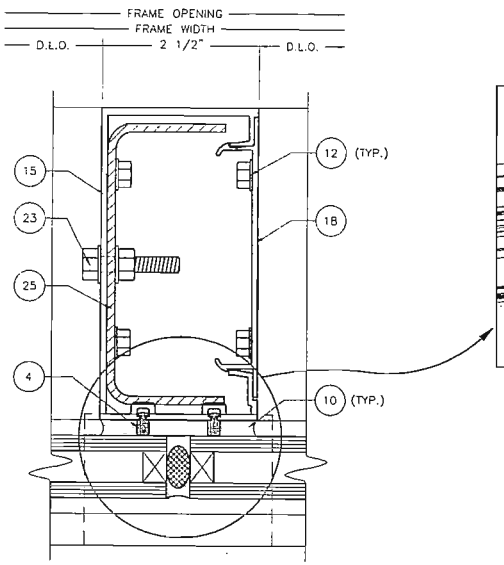
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-*/12-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION

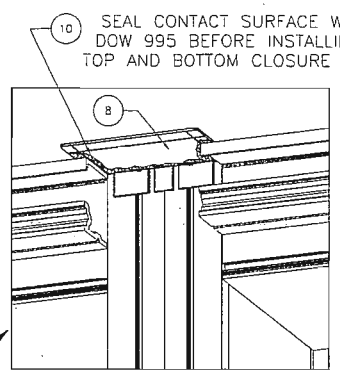
HTL PRODUCT APPROVAL FOR PW251 CURTAIN WALL SYSTEM

FRAMING DETAILS

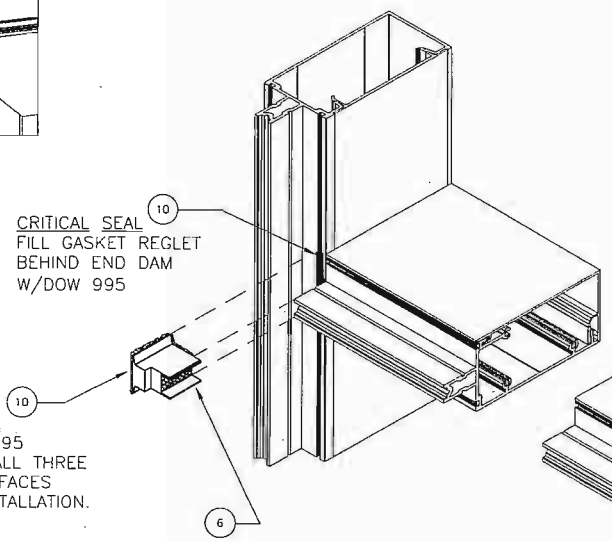
DATE	5/19/2006		
DRAWN PCH	CHECKED JDW	APPROVED JDW	
PROJECT NO.	HTL		
DRAWING NO.	PW251		
SHEET	4 OF 7		

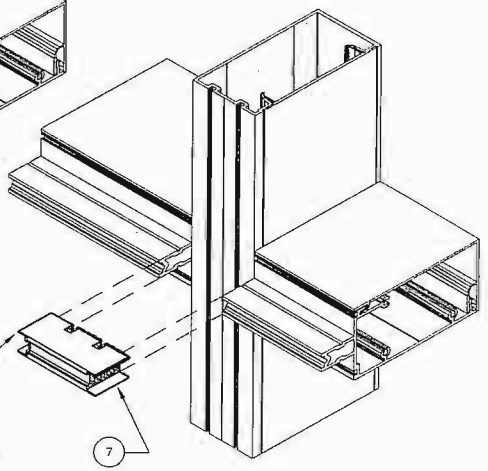


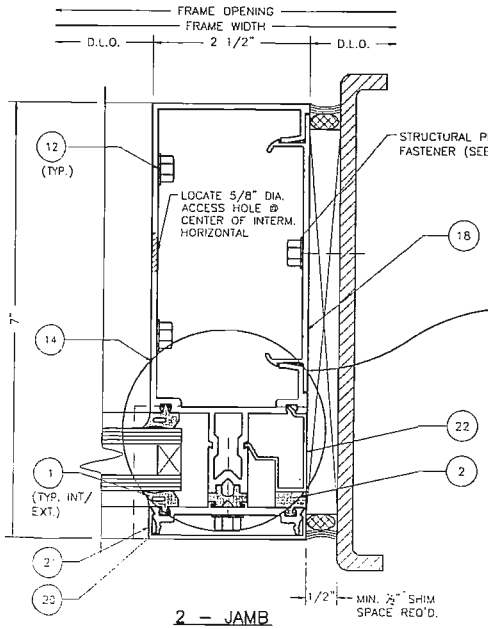
1 – BUTT GLAZED VERT. MULLION
1:2



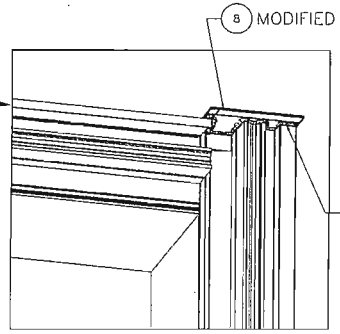
TOP SHOWN
(BOTTOM SIMILAR)







2 – JAMB
1:2



TOP SHOWN
(BOTTOM SIMILAR)

Hurricane Test Laboratory, LLC

AS TESTED UNLESS OTHERWISE NOTED
Date 5/26/06
Job# 0401-0501-06

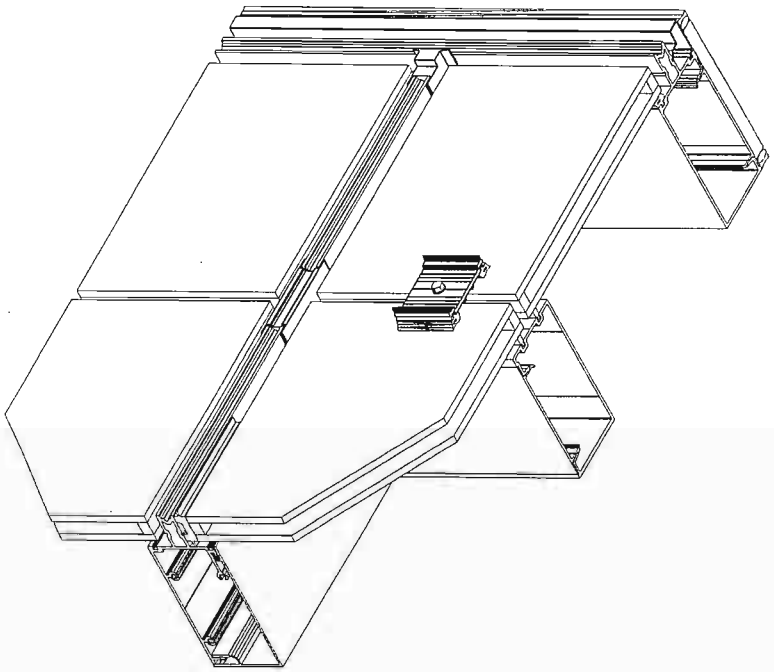
REV	BY	DATE	DESCRIPTION

Coral Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-256-7320

HTL PRODUCT APPROVAL FOR
PW251 CURTAIN WALL SYSTEM

FRAMING DETAILS

DATE	5/19/2006		
DRAWN PCH	CHECKED JDW	APPROVED JDW	
PROJECT NO.	HTL		
DRAWING NO.	PW251		
SHEET	5 OF 7		



Hurricane Test Laboratory, LLC

AS TESTED UNLESS OTHERWISE NOTED

Date 5/16/06

Job# G402-0501-06

HTL PRODUCT APPROVAL FOR
PW251 CURTAIN WALL SYSTEM

FRAMING DETAILS

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
PHONE: 800-772-7737 FAX: 800-255-7320

REV	BY	DATE	DESCRIPTION
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DATE	5/19/2006
DRAWN	PCH
CHECKED	JDW
APPROVED	JDW
PROJECT NO.	HTL
DRAWING NO.	PW251
SHEET	6 OF 7

BILL OF MATERIALS

ITEM	P/N	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1	NG10	GLAZING GASKET	.250 SPACE	EPDM	VARIES	USED ON EXTERIOR AND INTERIOR (GLASS TO GLASS)
2	NG11	EXTERIOR PERIMETER GASKET	.30 SPACE	EPDM	VARIES	USE AT PERIMETER (METAL TO METAL)
3	NG12	PRESSURE BAR GASKET (ISOLATOR)	.140 SPACE	EPDM	VARIES	USED ON PRESSURE BAR
4	NG14	SPACER GASKET (B.G. MULLION)	.194 X .250	EPDM	VARIES	USED FOR STRUCTURAL GLAZING
5	SB251	SETTING BLOCK	1.498 X 4.00 X .437	EPDM	VARIES	4" LONG (2 PER LITE OF GLASS)
6	SP203	HORIZONTAL END DAM @CAPTURED MULL.	1.287 X 1.500 X .745	PLASTIC	CORAL	LOCATE ONE AT EACH END OF INTERM. HORIZONTAL
7	SP207	BRIDGE DAM @B.G. MULLION	1.281 X 3.123 X .745	PLASTIC	CORAL	LOCATED AT BUTT GLAZE MULLION &
8	SP209	VERTICAL MULLION CLOSURE CAP	3 X 2.352 X .550	INJECTION MOLDED PLASTIC	CORAL	LOCATE AT TOP AND BOTTOM OF VERTICAL
9	795	PERIMETER SEALANT	VARIABLE SPACE	SILICONE	DOW	
10	995	INTERNAL SEALANT	VARIABLE SPACE	SILICONE	DOW	
11	SM5601	JOINT SEALANT TAPE	.125 X .50 X VARIES	BUTYL	SCHNEE-MOREHEAD	AT INTERSECTION OF ALL HORIZ. TO VERT. JOINTS
12	AS16	TYPICAL SPLINE SCREW	#14 X 1" HHSTS	STEEL	VARIES	TYPICAL SPLINE SCREW
13	AS32	PRESSURE BAR SCREW	#12-14 X 1-1/4" X HWH #3	STEEL	VARIES	PRESSURE BAR SCREWS (LOCATE 9" O.C.)
14	PW150	CAPTURED MULLION	2.500 X 6.281 X .094	6063-T6 ALUMINUM	CORAL	
15	PW151	BUTT GLAZED MULLION	2.500 X 5.000 X .094	6063-T6 ALUMINUM	CORAL	
16	PW152	HEAD/SILL	2.390 X 6.075 X .094	6063-T6 ALUMINUM	CORAL	
17	PW155	INTERMEDIATE HORIZONTAL	2.390 X 6.168 X .094	6063-T6 ALUMINUM	CORAL	
18	PW202	MULLION FILLER	.681 X 4.484 X .094	6063-T6 ALUMINUM	CORAL	
19	PW203	HEAD/SILL/HORIZONTAL TRIM	2.500 X 4.980 X .078	6063-T6 ALUMINUM	CORAL	
20	PW204	PRESSURE BAR	2.443 X .433 X .125	6063-T6 ALUMINUM	CORAL	
21	PW205	VERTICAL/HORIZONTAL FACE COVER	.500 X 2.500 X .062	6063-T6 ALUMINUM	CORAL	
22	PW213	JAMB POCKET FILLER	.999 X 1.375 X .050	6063-T6 ALUMINUM	CORAL	
23	FASTENER	STL. REINFORCEMENT ATTACHMENT BOLT	1/4" -20 X 1-1/4" BOLT W/ WASHER & NUT	STEEL	VARIES	LOCATE @HEAD, SILL, AND INTERMEDIATE HORIZONTAL
24	SR150	REINFORCEMENT STEEL	4-1/2" X 1-7/8" X 1/4" CHANNEL	AS36	VARIES	USED @ INTERMEDIATE VERTICAL MULLION
25	SR151	REINFORCEMENT STEEL	4-1/2" X 1-7/8" X 10 GA.	AS36	VARIES	USED @ INTERMEDIATE VERTICAL MULLION

Hurricane Test Laboratory, LLC

HTL LLC

AS TESTED UNLESS OTHERWISE NOTED

Date 5/26/06

Job# 6-801-0501-01

REV	BY	DATE	DESCRIPTION

Coral
Architectural Products
3010 RICE MINE ROAD, TUSCALOOSA, AL 35406
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HTL PRODUCT APPROVAL FOR
PW251 CURTAIN WALL SYSTEM

BILL OF MATERIALS

DATE 5/19/2006

DRAWN	CHECKED	APPROVED
PCH	JDW	JDW

PROJECT NO. HTL

DRAWING NO. PW251

SHEET 7 OF 7