



# CONSTRUCTION MATERIALS

## TECHNOLOGIES

### LABORATORY TEST REPORT

**Report for:** Coral Architectural Products  
4750 Distribution Lane  
Tampa, FL 33605

**Attention:** Mr. William Smith

<b>Product Type:</b> Aluminum Storefront System	<b>Product Series/Model:</b> FL600T Series
<b>Project No.:</b> CORL-007-02-01	<b>Source:</b> Coral Architectural Products

Series: FL600 (110.25"x120.00") Fixed Aluminum Storefront System	
Test Method Description	Summary of Result
Air Leakage (Infiltration) 75Pa:	0.02 cfm/ft <sup>2</sup> (0.1 L/s/m <sup>2</sup> )
Air Leakage (Infiltration) 300Pa:	0.05 cfm/ft <sup>2</sup> (0.3 L/s/m <sup>2</sup> )
Water Penetration Resistance Test Pressure:	15.0 psf (730 Pa)
Positive Design Test Pressure (DP):	+45 psf (+2160 Pa)
Negative Design Test Pressure (DP):	-45 psf (-2160 Pa)
Forced Entry Resistance	Type "D" Grade 40

#### Test Methods/Specifications:

- Testing Application Standard (TAS) 202-94 Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure
  - ASTM 283 - 04(2012) Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
  - ASTM E331 - 00(2016) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
  - ASTM E547- 00(2016) Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference
    - ASTM E330-14 Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference
    - ASTM F588-14 Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact

<b>Testing Dates:</b> 06/15/2017	<b>Report Date:</b> 08/07/2017
<b>Test Record Retention Date:</b> 08/07/2027	

- Reference must be made to Project No., CORL-007-02-01, dated 08/07/2017 for complete test specimen description and detailed gateway results.

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**I. Product Manufacturer & Location:** Coral Architectural Products  
3010 Rice Mine Road  
Tuscaloosa, AL 35406

**II. Accredited Testing Laboratory:** PRI-Construction Materials Technologies, LLC  
6412 Badger Drive  
Tampa, FL 33610

II.1. Testing Location: Testing was conducted at PRI-CMT located in Tampa, FL. Calibration of testing instrumentation was performed by a PRI-CMT representative in compliance with PRI-CMT In-House quality control program governed by ISO/IEC 17025-05

**III. Product Type:** Aluminum Storefront System

**IV. Product Series/Model:** FL600T Series

**V. Test Specimen Details:**

V.1. Sizes:

V.1.1. Overall Unit Size: 2800mm x 3048mm (110.25" x 120") 8.53m<sup>2</sup> (91.7ft<sup>2</sup>)  
V.1.2. Top Fixed Size: (x2) 1302mm x 2235mm (55.13" x 47.75")<sup>1</sup>  
V.1.3. Bottom Fixed Size: (x2) 1302mm x 813mm (55.13" x 73.25")<sup>1</sup>

V.2. Framing Members:

V.2.1. Head/Sill/Jamb: Head/Jambs with filler Part# FL634T & FL625T, Sill Part# FL626T Extruded (6063-T6) aluminum straight cut, and mechanically secured at each corner thru the jambs and into the internal screw bosses of the corresponding head and sill, with three (#14 x 1") steel fasteners per corner. Silicone sealant was applied at all external intersections. Butyl tape was applied between intersections.

V.2.2. Intermediate Vertical: Part# FL634T and Part# FL625T Extruded aluminum (6063-T6) 3048mm (120") straight cut, and mechanically secured thru the ends into the head/sill screw bosses with three (#14 x 1") per end. Vertical intermediates were snapped together. Silicone sealant was applied at all external intersections. Butyl tape was applied between intersections

V.2.3. Intermediate Horizontal: Part# FL626T Extruded aluminum (6063-T6) 1315mm (51.75") straight cut, and mechanically secured thru the corresponding jambs and vertical intermediate with three (#14 x 1") steel fasteners per end. Silicone sealant was applied at all external intersections. Butyl tape was applied between intersections

V.2.4. Subsill: Part# FL639T Extruded (6063-T6) aluminum 2800mm (110.25") straight cut. See installation for anchorage to substrate. Silicone sealant was applied on the interior leg.

Notes: 1. Measured from ends to approximate center lines of intermediate members.

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V.3. Glazing:

V.3.1. Daylight Opening Sizes:

Location	Size		Total Area		Quantity
	SI (mm)	Imperial (inches)	SI (m <sup>2</sup> )	Imperial (ft <sup>2</sup> )	
Top Lite	1315 x 1102	(51.75 x 43.38)	1.45	(15.88)	2
Bottom Lite	1315 x 1746	(51.75 x 68.75)	2.30	(9.5)	2

V.3.2. IGU Configuration:

IGU Thickness	Spacer Type	Interior Pane	Exterior Pane	Glazing Method	Glazing Bite Depth
Dual Glaze 25.4mm (1")	Aluminum box. Single Sealed	6mm (1/4") tempered	6mm (1/4") tempered	Each glass lite was set from the exterior onto two 5/8" tall by 1-1/4" wide and 4" long setting blocks. The glass lites were secured with aluminum glazing stops Part# FL303 on the sill and horizontal intermediates. All glass lite perimeters were sandwiched between push-in EPDM glazing gasket Part# NG1 on the interior and exterior.	13mm (1/2")

V.4. Weeping System:

Drainage Type	Member Location	Location on Frame Member	Drainage Size	Quantity
Weep Hole	Subsill exterior face draining to the exterior	152mm (6.00") O.C. from each end, and 152mm (6.00") on each side of the intermediate vertical framing member	6.4mm (0.25") diameter	4 total

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V.5. Components:

Component	Description	Location/Fastening	Quantity
Water Diverter Part# WD300-1	Molded Plastic 34mm x 34mm x 102mm (1.36" x 1.34" x 4")	Located on each end of the horizontal intermediate.	4 total

V.6. Weatherstripping: "No Weatherstripping"

V.7. Reinforcements: "No Reinforcement"

V.8. Screen: "No Screen"

V.9. Installation

The test specimen was installed into a nominal 51mm x 203mm (2"x8") Souther Yellow Pine wooded test buck. The rough opening maintained a clearance of 3.2mm (0.13") around the perimeter of the test specimen. Dow 795 silicone sealant was utilized to seal the interior and exterior perimeters to the test buck.

Frame Member	Dimensional Location on Member	Anchor Description	Quantity
Head	51mm (2.00") and 127mm (5.00") O.C. from each jamb and on each side of the vertical intermediate.	1/4" x 4" steel fastener	8 Total
Sill	Secured to the subsill 51mm (2.00") and 127mm (5.00") O.C. from each jamb and on each side of the vertical intermediate.	#12 x 1-1/2" steel fastener	8 Total
Subsill	51mm (2.00") and 127mm (5.00") O.C. from each jamb and on each side of the vertical intermediate.	1/4" x 3" steel fastener	8 Total
Jamb	127mm (5.00") O.C. on each side of the horizontal intermediates.	1/4" x 3" steel fastener	2 per Jamb 4 Total

Detailed drawings showing wall thickness of all members, corner construction and hardware application are on file and have been compared to the sample submitted. A test sample will be retained at the test laboratory for a period of 2 years; electronic documentation will be retained for 10 years. Manufacturer's drawings and bill of materials are contained in Appendix A.

**VI. Test Results:** Testing was performed at an ambient condition of 23°C (74°F) with 60% Rh.

Test Results: TAS 202 / ASTM E330– FL600T Series Aluminum Storefront System						
Test Specification	Test Pressure	Allowable		Recorded Measurement		Result
Air Infiltration ASTM E283	75 Pa (1.57 psf)	0.06 cfm/ft <sup>2</sup> (0.3 L/s/m <sup>2</sup> )		0.02 cfm/ft <sup>2</sup> (0.1 L/s/m <sup>2</sup> )		Pass <sup>1</sup>
	300 Pa (6.27 psf)			0.05 cfm/ft <sup>2</sup> (0.3 L/s/m <sup>2</sup> )		
Test Specification	Test Pressure	Deflection Set <sup>3</sup>	Allowable <sup>3</sup>	Indicator <sup>4</sup>	Recorded Measurement	Result
½ Uniform Load Structural ASTM E330 <sup>2</sup>	+34 psf (+1600 Pa)	Deflection	Report Only	Intermediate Vertical	0.33" (8mm)	Pass <sup>5</sup>
				Intermediate Horizontal	0.01" (<1mm)	
				Sill Between Anchors	0.01" (<1mm)	
½ Test Load TAS202	-34 psf (-1600 Pa)	Deflection	Report Only	Intermediate Vertical	0.43" (3mm)	
				Intermediate Horizontal	0.01" (<1mm)	
				Sill Between Anchors	0.01" (<1mm)	
Test Specification	Test Pressure	Deflection Set <sup>3</sup>	Allowable <sup>3</sup>	Indicator <sup>4</sup>	Recorded Measurement	Result
Uniform Load Structural ASTM E330 <sup>1,2</sup>  Design Pressure TAS202	+45 psf (+2200 Pa)	Deflection	0.66" (16.7mm)	Intermediate Vertical	0.45" (11mm)	Pass <sup>5</sup>
			0.30" (7.6mm)	Intermediate Horizontal	0.04" (1mm)	
			0.24" (6.1mm)	Sill Between Anchors	0.02" (1mm)	
		Set	0.34" (8.7mm)	Intermediate Vertical	0.01" (<1mm)	
			0.16" (4.1mm)	Intermediate Horizontal	0.01" (<1mm)	
			0.13" (3.3mm)	Sill Between Anchors	<0.01" (<1mm)	

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Test Specification	Test Pressure	Deflection Set <sup>3</sup>	Allowable <sup>3</sup>	Indicator <sup>4</sup>	Recorded Measurement	Result
Uniform Load Deflection ASTM E330 <sup>1,2</sup>  Design Pressure TAS202	-45 psf (-2200 Pa)	Deflection	0.66" (17mm)	Intermediate Vertical	0.62" (16mm)	Pass <sup>5</sup>
			0.30" (8mm)	Intermediate Horizontal	0.02" (1mm)	
			0.24" (6mm)	Sill Between Anchors	0.02" (1mm)	
		Set	0.34" (9mm)	Intermediate Vertical	0.01" (<1mm)	
			0.16" (4mm)	Intermediate Horizontal	0.01" (<1mm)	
			0.13" (3mm)	Sill Between Anchors	<0.01" (<1mm)	
Test Specification	Test Pressure	Allowable		Recorded Measurement		Result
Water Intrusion ASTM E547	(15 psf) 720 Pa	No penetration of water beyond innermost plane, excluding trim and hardware.		No Leakage		Pass <sup>6</sup>
Water Intrusion ASTM E331 (15 min)				No Leakage		
Test Specification	Test Pressure	Deflection Set <sup>3</sup>	Allowable <sup>3</sup>	Indicator <sup>4</sup>	Recorded Measurement	Result
Uniform Load Structural ASTM E330 <sup>1,2</sup>  Test Load TAS202	+68 psf (+3300 Pa)	Deflection	Report Only	Intermediate Vertical	0.69" (18mm)	Pass <sup>5</sup>
				Intermediate Horizontal	0.04" (1mm)	
				Sill Between Anchors	0.03" (1mm)	
		Set	0.34" (9mm)	Intermediate Vertical	0.02" (1mm)	
			0.16" (4mm)	Intermediate Horizontal	0.01" (<1mm)	
			0.13" (3mm)	Sill Between Anchors	<0.01" (<1mm)	

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Test Specification	Test Pressure	Deflection Set <sup>3</sup>	Allowable <sup>3</sup>	Indicator <sup>4</sup>	Recorded Measurement	Result <sup>5,6</sup>
Uniform Load Structural ASTM E330 <sup>1,2</sup>  Test Load TAS202	-68 psf (-3300 Pa)	Deflection	Report Only	Intermediate Vertical	0.71" (18mm)	Pass <sup>5</sup>
				Intermediate Horizontal	0.02" (1mm)	
				Sill Between Anchors	0.03" (1mm)	
		Set		Intermediate Vertical	0.01" (<1mm)	
				Intermediate Horizontal	0.01" (<1mm)	
				Sill Between Anchors	<0.01" (<1mm)	
Test Specification	Test Pressure	Allowable		Recorded Measurement		Result
Forced Entry Resistance ASTM F588	N/A	No Entry		Type: "D" Grade: 40		Pass

Notes:

- The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.
- Loads were held for 30 seconds.
- Deflection, permanent set captured on the intermediate vertical, intermediate horizontal, and on the sill between anchors. The unsupported spans measured 114.75" (2915mm) on the vertical, and 52" (1321mm) on the horizontal, and 42" (1067mm) on the sill between anchors. Deflection allowables were L/175 at design pressure, and 0.3% of maximum span permanent deformation at design pressure and test pressure.
  - Deflection allowables where indicated: Verticals - 0.66" (17mm); Horizontal - 0.30" (8mm); Between Anchors - 0.24" (6mm).
  - Permanent Set allowables where indicated: Verticals - 0.34" (9mm); Horizontal - 0.16" (4mm); Between Anchors - 0.13" (3mm)
- See Appendix "A" for indicator locations.
- Upon completion of testing the specimen did not have indication of deterioration or incipient failure, such as cracking, fastener loosening, local yielding exceeding (0.3%) of unsupported spans, deflection exceeding (L/175) at design pressure of the unsupported spans, or loss of adhesive bond.
- ASTM E547 consisted of 4 five-minute cycles with pressure and one-minute dwell time between cycles. Tested without a screen.

**VII. Equipment Utilized:**

- VII.1. Computer controlled reversible blower with pressure transducers
- VII.2. Water spray rack
- VII.3. Laser distance transducers
- VII.4. Gas mass with LFE


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VIII. Official List of Witnesses:	Company
Tim Efaw	PRI-CMT
Daniel Arents	PRI-CMT
William Smith	Coral Architectural Products

**Statement of Attestation:**

Testing was conducted in accordance with methods designated in the *Testing Application Standard (TAS) 202-94 Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*. Upon completion of testing the tested assembly successfully resisted static pressure differentials corresponding to +/-45 psf (+/-2200 Pa) as stated in chapter 1620 of The Florida Building Code 5<sup>th</sup> Edition (2014). The laboratory test results presented in this report are representative of the specimen supplied. This report does not constitute certification of this product which may only be granted by the certification program administrator

Signed:   
 Timothy Efaw  
 Manager

Signed:   
 Zachary R. Priest - PE  
 Director

Date: 08/07/2017

Date: 08/08/2017

**Report Issue History:**

Issue #	Date	Pages	Revision Description (if applicable)
Original	08/07/2017	17	NA

Appendix Attached

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# Appendix A

## Manufactures Drawings/BOM/Sketches/Photos (8 pages)


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**FL600T FLORIDA PRODUCT  
 APPROVAL TEST DRAWINGS**

GENERAL NOTES:  
 TEST PROPORTIONS WILL BE SHOWN ON EACH ELEVATION SHEET

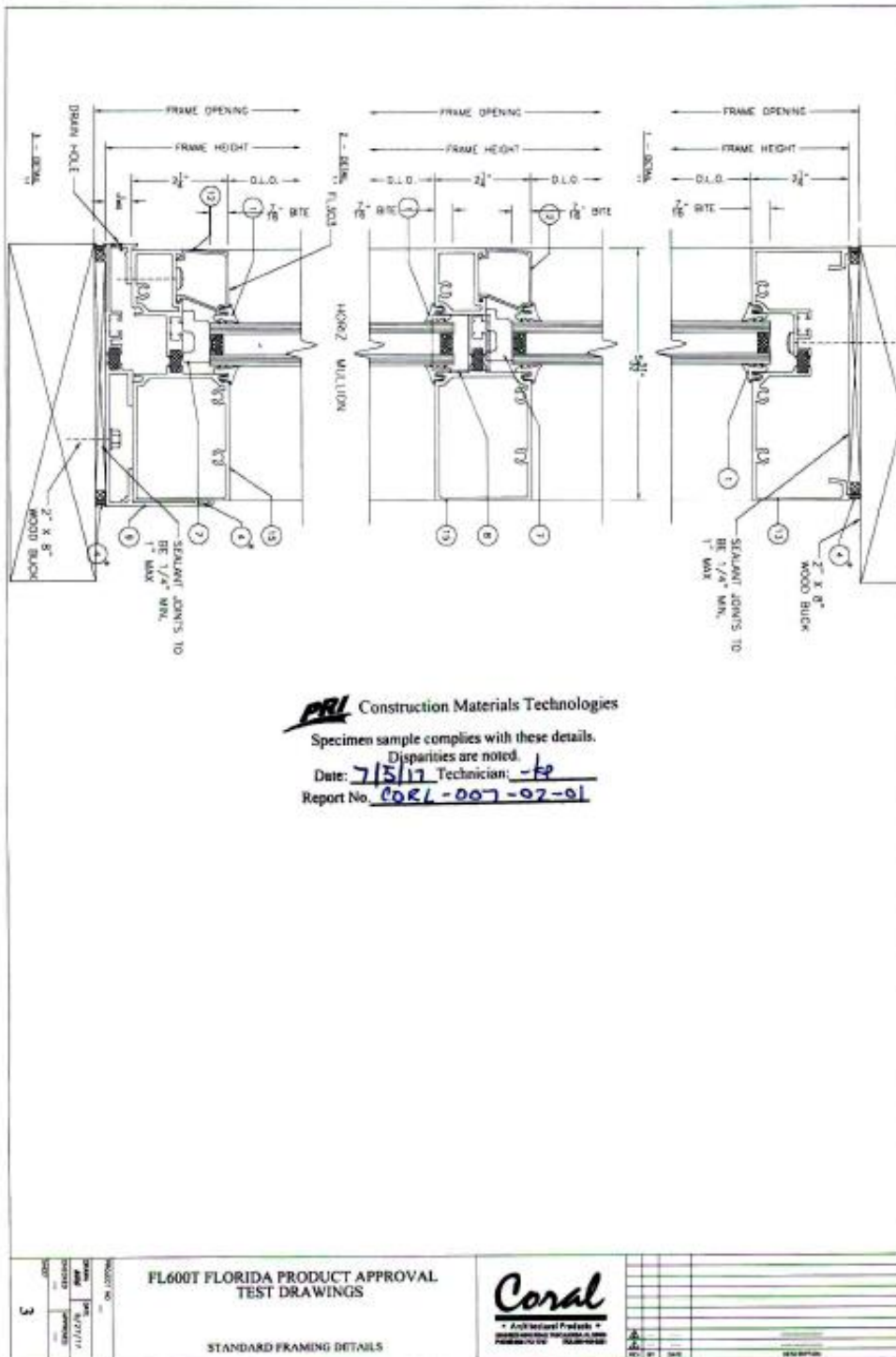
INDEX TO DRAWINGS	
1	INDEX TO DRAWINGS AND NOTES
2	STANDARD FRAMING ELEVATION
3	STANDARD FRAMING DETAILS
4	STANDARD FRAMING DETAILS
5	BILL OF MATERIALS
6	DET DRAWINGS

**PRI** Construction Materials Technologies  
 Specimen sample complies with these details.  
 Disparities are noted.  
 Date: 7/5/17 Technician: —H  
 Report No: CORL-007-02-01

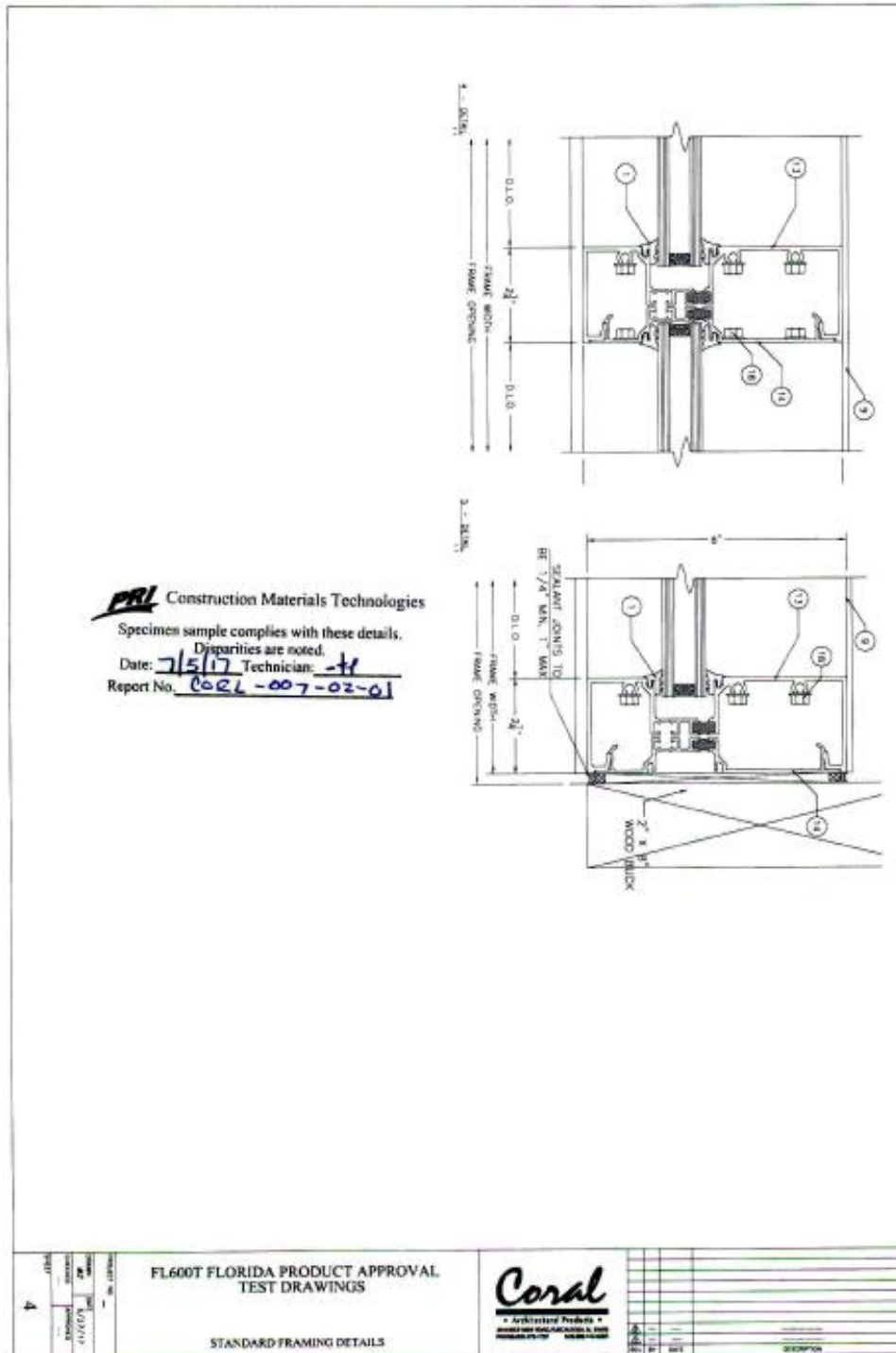
TITLE OF DRAWING FL600T FLORIDA PRODUCT APPROVAL TEST DRAWINGS INDEX TO DRAWINGS AND NOTES		
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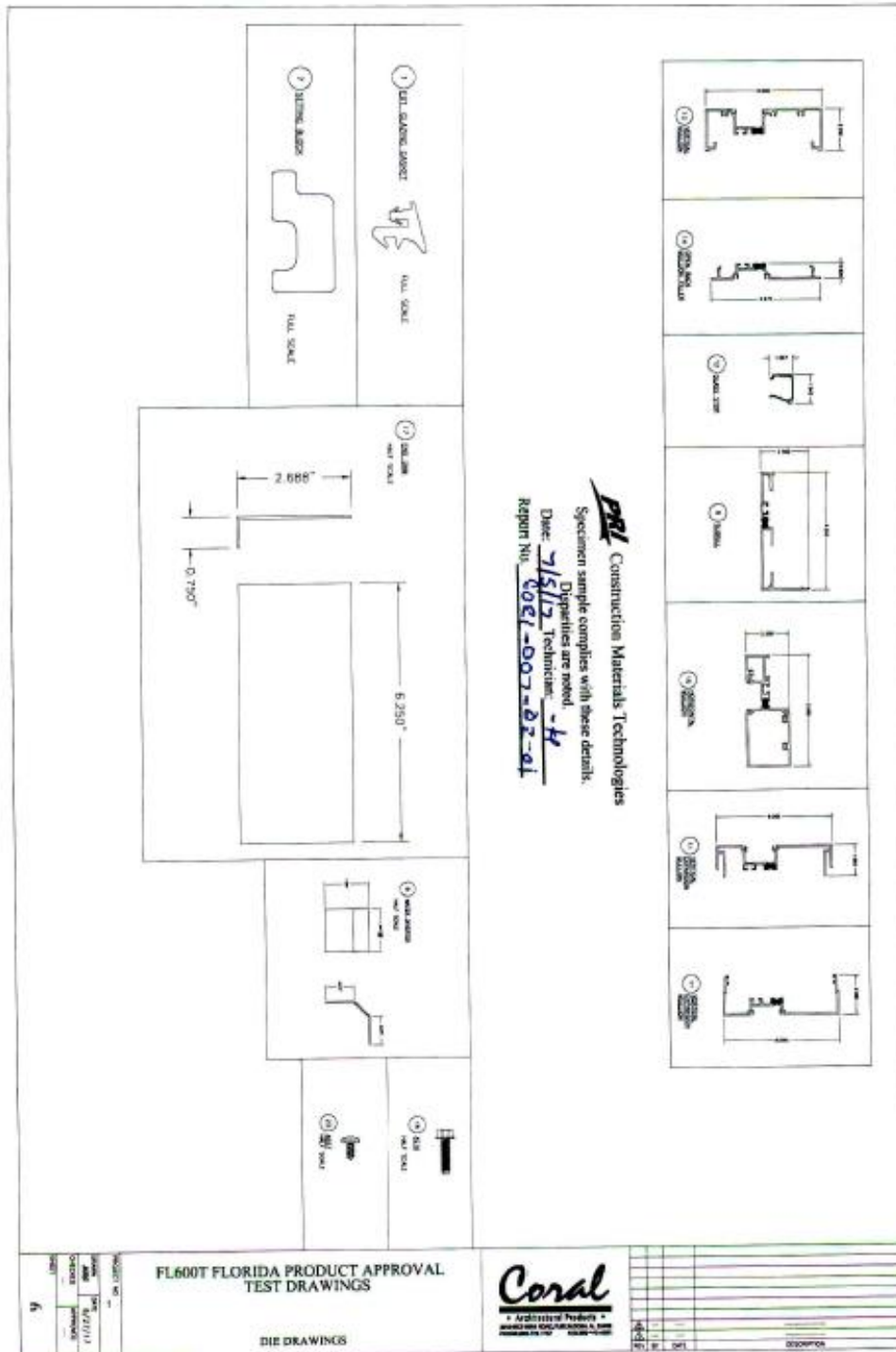


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ITEM NO.	PN	DESCRIPTION	DIMENSIONS	MATERIAL	MANUFACTURER	NOTES
1	NET	EXTERIOR COATING CASSET	0.720 SPACE	EPDM	WARRS	
2	NET	SETTING BLOCK @ SILL & HORIZONTAL	1.010 SPACE	SETPOINT	BOB ROBINSON	
3	W/D/DR	WATER TIGHTER	1.358 x 1.348 x 4.000	NEEDLE-NOSE DRIP PLASTIC	WARRS	2 PER LINE
4	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	2 EACH END OF HORIZONTAL
5	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
6	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
7	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
8	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
9	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
10	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
11	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
12	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
13	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
14	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
15	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
16	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
17	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
18	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
19	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	
20	W/D/DR	WATER TIGHTER	2.250 x 0.202 x 0.094	6063-T6 ALUMINUM	CORAL INDUSTRIES, INC	

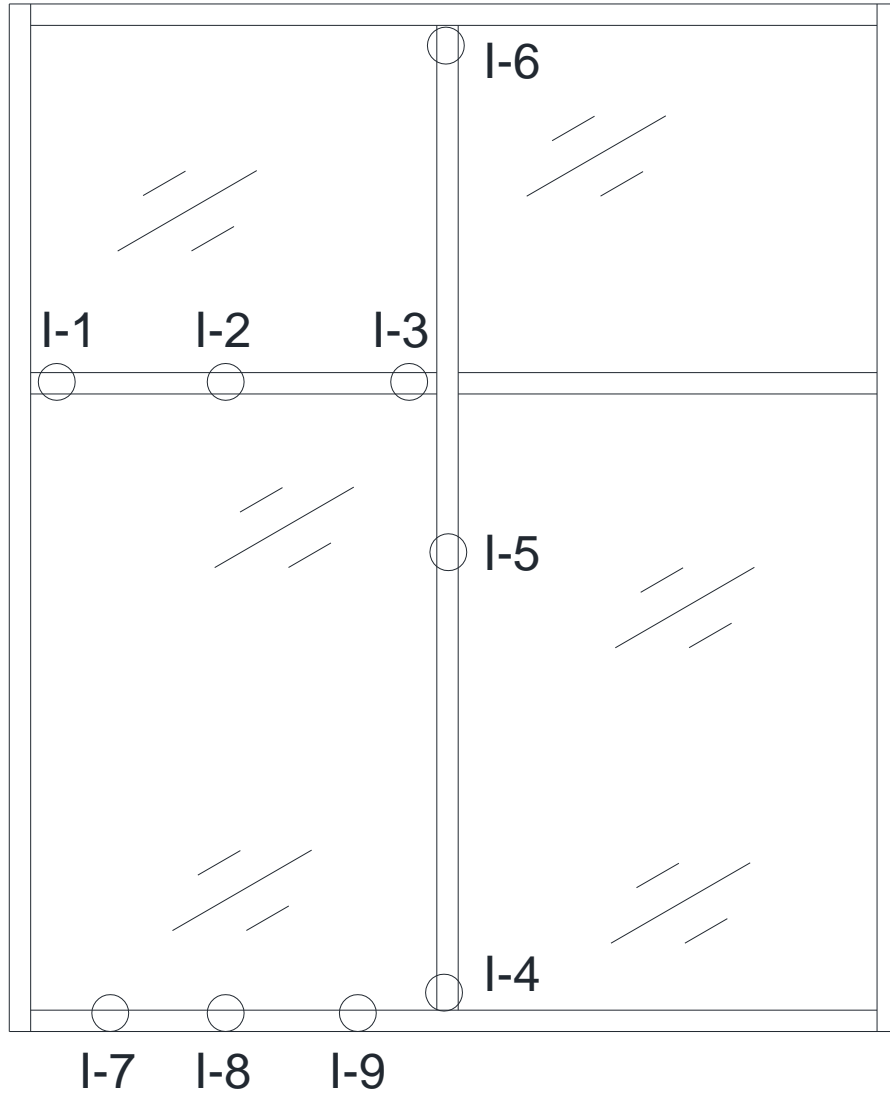
**PRI** Construction Materials Technologies  
 Specimen sample complies with these details.  
 Disparities are noted.  
 Date: 7/5/17 Technician: JK  
 Report No: CORL-007-02-01

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## SKETCH INDICATOR LOCATIONS



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**END OF REPORT**

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