

**MIAMI-DADE COUNTY PERFORMANCE TEST REPORT**

**Report No.:** C3787.01-401-18

**Rendered to:**

CORAL ARCHITECTURAL PRODUCTS  
Tuscaloosa, Alabama

**PRODUCT TYPE:** Aluminum Thermally Broken Flush Glaze  
**SERIES/MODEL:** FL 550T Thermal Impact Storefront System

**This report contains in its entirety:**

**Cover Page:** 1 page  
**Report Body:** 11 pages  
**Sketches:** 1 page  
**Photographs:** 2 pages  
**Drawings:** 7 pages

**Test Start Date:** 1/9/2013  
**Test End Date:** 7/31/2013  
**Report Date:** 8/22/2013  
**Test Record Retention End Date:** 8/22/2023  
**Miami-Dade County Notification No.:** ATI FL 12015



**1.0 Client Identification:**

**1.1 Report Issued To:** Coral Architectural Products  
 3010 Rice Mine Road  
 Tuscaloosa, Alabama 35406

**1.2 Contact Person:** William Smith Sr

**2.0 Laboratory Identification:**

**2.1 Test Laboratory:** Architectural Testing, Inc.  
 2250 Massaro Boulevard  
 Tampa, Florida 33619

**2.2 Laboratory Phone Number:** 813-628-4300

**3.0 Project Summary:**

**3.1 Introduction:** Architectural Testing, Inc. was contracted by Coral Architectural Products to conduct TAS 201, TAS 202, and TAS 203 testing on their FL 550T Thermal Impact Storefront system in accordance with Florida Building Code for High Velocity Hurricane Zone and Miami-Dade County requirements. The three specimen(s) tested met the performance requirements set forth in the protocols. The results are summarized in Table 1.

Table 1: Summary of Test Results

| Specimen # | Test Protocol                    | Design Pressure |
|------------|----------------------------------|-----------------|
| 1          | TAS 202                          | +55 / -55 psf   |
| 2, 3 and 4 | TAS 201 / 203<br>(Large Missile) | +55 / -55 psf   |

**3.2 Product Type:** Aluminum Thermally Broken Flush Glaze

**3.3 Series/Model:** FL 550T Thermal Impact Storefront System

**3.4 Miami-Dade County Notification No.:** ATI FL 12015

**3.5 Test Dates:** 1/9/2013 – 7/31/2013

**3.6 Test Record Retention End Date:** 8/22/2023

**3.7 Test Location:** Architectural Testing, Inc. test facility in Tampa, FL.



**3.0 Project Summary:** (Continued)

**3.8 Test Specimen Source:** The test specimen(s) were provided by the client. Representative samples of the test specimen(s) will be retained by Architectural Testing for a minimum of ten years from the report completion date.

**3.9 Drawing Reference:** The test specimen drawings have been reviewed by Architectural Testing and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Architectural Testing per the drawings located in Appendix C. Any deviations are documented herein and on the drawings.

**3.10 List of Official Observers:**

| <u>Name</u>            | <u>Company</u>               |
|------------------------|------------------------------|
| William Smith Sr       | Coral Architectural Products |
| John C. McClane        | Architectural Testing, Inc.  |
| Daniel P. White        | Architectural Testing, Inc.  |
| Shawn G. Collins, P.E. | Architectural Testing, Inc.  |
| Scott Parker           | Architectural Testing, Inc.  |

**4.0 Test Protocol(s):**

TAS 201-94, *Impact Test Procedures*

TAS 202-94, *Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure*

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

**5.0 Test Specimen Description:**

**5.1 Product Sizes:** Table 2 provides product sizes for the overall test specimen(s) and operable components.

Table 2: Overall Specimen and Operable Component Sizes

| <b>Overall Area:</b><br>122.5 ft <sup>2</sup> | <b>Width (in.)</b> | <b>Height (in.)</b> |
|---|--------------------|---------------------|
| Overall size                                  | 147                | 120                 |

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

**5.2 Frame Construction:** The frame was fabricated utilizing the members listed in Table 3.

Table 3: Frame Member Details

| Frame Member                 | Part #             | Material          | Description                 |
|------------------------------|--------------------|-------------------|-----------------------------|
| Sub-sill                     | FL539T             | Extruded aluminum | Detail #3 on sheet #4 of #7 |
| Sill                         | FL572T             | Extruded aluminum | Detail #3 on sheet #4 of #7 |
| Head                         | FL572T             | Extruded aluminum | Detail #4 on sheet #4 of #7 |
| Left jamb                    | FL571T/<br>FL515-1 | Extruded aluminum | Detail #8 on sheet #5 of #7 |
| Right jamb                   | FL574T/<br>FL575T  | Extruded aluminum | Detail #9 on sheet #5 of #7 |
| Vertical mullions            | FL574T/<br>FL575T  | Extruded aluminum | Detail #7 on sheet #5 of #7 |
| Horizontal mullions          | FL576T/<br>FL553   | Extruded aluminum | Detail #2 on sheet #4 of #7 |
| Inverted horizontal mullions | FL576T/<br>FL553   | Extruded aluminum | Detail #5 on sheet #4 of #7 |

**5.2.1 Frame Corner Construction:** The frame corners were constructed as described in Table 4.

Table 4: Frame Corner Construction Details

| Location                             | Joinery Type          | Details  |
|--------------------------------------|-----------------------|--|
| All verticals to sill                | Mechanically fastened | Square-cut, butted, secured through the vertical into the horizontal screw bosses with (2) #14 x 1" HHSTS and sealed with butyl tape and sealed at the exterior with Dow Corning 995 silicone.                           |
| All verticals to horizontal mullions | Mechanically fastened | Square-cut, butted, secured through the vertical into the horizontal screw bosses with (3) #14 x 1" HHSTS and sealed with butyl tape and sealed at the exterior with Dow Corning 995 silicone.                           |
| All verticals to head                | Mechanically fastened | Square-cut, butted, secured through the vertical into the horizontal screw bosses with (2) #14 x 1-1/2" pan head sheet metal screws and sealed with butyl tape and sealed at the exterior with Dow Corning 995 silicone. |



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

**5.3 Weatherstripping:** Table 5 provides details of the weatherstripping utilized in each test specimen.

Table 5: Weatherstripping Details

| Description                                    | Quantity | Location   |
|--|----------|--|
| Part #NG1; EPDM, flexible glazing wedge gasket | 1 Row    | Exterior perimeter of each lite; vertical mullions, horizontal mullions and glass stops.   |
| Part #NG15; EPDM, flexible glazing gasket      | 1 Row    | Interior perimeter of each lite; vertical and horizontal mullions, at the glazing pockets. |

**5.4 Glazing Details:**

**5.4.1 Glazing Materials:** Table 6 describes the glass utilized for testing.

Table 6: Glazing Details

| Glass Type | Overall Thickness            | Glass Makeup   | Glazing Method  |
|------------|------------------------------|--|---|
| IA         | 1-5/16"<br>I.G.<br>Laminated | 1/4" tempered glass<br>1/2" air space<br>1/4" heat-strengthened glass<br>0.090" SG® by DuPont interlayer<br>1/4" heat-strengthened glass | Exterior glazed onto an interior perimeter vinyl gasket Part#NG15, secured with snap-in glass stops at the horizontal frame member of each lite. The exterior perimeter of each lite utilized a vinyl wedge gasket; Part#NG1. |

**5.4.2 Daylight Opening and Glass Bite:** Table 7 provides the daylight opening and glass bite utilized for testing.

Table 7: Daylight Opening Sizes and Glass Bite Details

| Glass Type | Location   | Quantity | Daylight Opening    | Glass Bite |
|------------|--|----------|---------------------|------------|
| IA         | Left and right upper lites and center lower lite | 3 Total  | 45-9/16" x 96-5/16" | 9/16"      |
| IA         | Left and right lower lites and center upper lite | 3 Total  | 45-9/16" x 15-7/8"  | 9/16"      |



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

**5.5 Drainage:** Table 8 provides details of drainage holes and accessories utilized for testing.

Table 8: Drainage Details

| Drainage Method                        | Size            | Quantity | Location  |
|--|-----------------|----------|---|
| Weepholes                              | 1/4" diameter   | 6        | Sub-sill; 6-3/4" from each jamb and each side of vertical mullions. |
| Injected molded plastic water diverter | 1-1/8" x 1-1/8" | 1 each   | Each end of horizontal mullions at the glazing pocket.              |

**5.6 Hardware:** No hardware was utilized.

**5.7 Installation:** Table 9 provides details of the test specimen installation into the C10 steel test buck with welded corners. The rough opening allowed for a 1/4" shim space. The interior and exterior perimeter of the test specimen was sealed with Dow Corning 795 silicone. Metal to metal joints and metal to glass at all corners was sealed with Dow Corning 995 silicone.

Table 9: Installation Details

| Location | Anchor Description                       | Anchor Location  |
|----------|--|--|
| Sub-sill | #14 x 1-1/2" tek screws                  | 4" from each end and 48" on center into the steel test buck                            |
| Sill     | #14 x 1-1/2" pan head sheet metal screws | 2" and 4" from the jambs and each side of the vertical mullions into the sub sill only |
| Head     | #14 x 1-1/2" tek screws                  | 2" and 4" from the jambs and each side of the vertical mullions into the test buck     |
| Jambs    | #14 x 1-1/2" tek screws                  | Midspan; into the test buck  |

**6.0 Test Results:** The temperature during TAS 202 testing was 78°F. Results are tabulated as follows:

**6.1 Protocol TAS 202-94, Static Air Pressure**

Table 10 provides the results for the air infiltration test.

Table 10: Test Specimen #1 TAS 202, Air Infiltration Test Results

| Test Pressure                         | Results                   |
|---------------------------------------|---------------------------|
| Air Infiltration at 1.57 psf (25 mph) | <0.01 cfm/ft <sup>2</sup> |
| Air Infiltration at 6.24 psf (50 mph) | <0.01 cfm/ft <sup>2</sup> |

Table 11 provides the results for positive and negative uniform static load test.

Table 11: Test Specimen #1 TAS 202, Preload and Design Load Test Results

| Load (psf)                     | Indicator Location | Deflection (in.) |         | Permanent Set (in.) |         |
|--------------------------------|--------------------|------------------|---------|---------------------|---------|
|                                |                    | Measured         | Allowed | Measured            | Allowed |
| +41.25<br>50% of Test Pressure | 4                  | 0.03             | N/A     | <0.01               | N/A     |
|                                | 5                  | 0.44             |         | <0.01               |         |
|                                | 6                  | 0.03             |         | <0.01               |         |
|                                | 7                  | 0.24             |         | <0.01               |         |
|                                | 8                  | 0.22             |         | <0.01               |         |
|                                | 9                  | 0.18             |         | <0.01               |         |
| +55.0<br>Design Pressure       | 4                  | 0.07             | 0.67    | <0.01               |         |
|                                | 5                  | 0.51             | 0.67    | <0.01               |         |
|                                | 6                  | 0.06             | 0.67    | <0.01               |         |
|                                | 7                  | 0.26             | N/A     | <0.01               |         |
|                                | 8                  | 0.24             |         | <0.01               |         |
|                                | 9                  | 0.20             |         | <0.01               |         |
| -41.25<br>50% of Test Pressure | 4                  | 0.05             |         | N/A                 | 0.01    |
|                                | 5                  | 0.08             |         |                     | 0.01    |
|                                | 6                  | 0.04             |         |                     | 0.01    |
|                                | 7                  | 0.08             | 0.01    |                     |         |
|                                | 8                  | 0.08             | 0.01    |                     |         |
|                                | 9                  | 0.07             | 0.01    |                     |         |
| -55.0<br>Design Pressure       | 4                  | 0.16             | 0.67    | 0.07                |         |
|                                | 5                  | 0.77             | 0.67    | 0.11                |         |
|                                | 6                  | 0.11             | 0.67    | 0.06                |         |
|                                | 7                  | 0.51             | N/A     | 0.10                |         |
|                                | 8                  | 0.47             |         | 0.10                |         |
|                                | 9                  | 0.39             |         | 0.09                |         |

## 6.0 Test Results: (Continued)

### 6.1 Protocol TAS 202-94, *Static Air Pressure*

Table 12 provides the results for the water penetration test.

Table 12: Test Specimen #1 TAS 202, Water Penetration Test Results

| Title of Test  | Pressure | Results |
|--|----------|---------|
| Water Penetration<br>15% of Positive Design Pressure | 15.0 psf | Pass    |

Table 13 provides the results for the structural overload test.

Table 13: Test Specimen #1 TAS 202, Structural Overload Test Results

| Load (psf)                | Indicator Location | Deflection (in.) |         | Permanent Set (in.) |         |
|---------------------------|--------------------|------------------|---------|---------------------|---------|
|                           |                    | Measured         | Allowed | Measured            | Allowed |
| +82.5<br>Test<br>Pressure | 4                  | 0.06             | N/A     | 0.02                | 0.48    |
|                           | 5                  | 0.96             |         | 0.04                | 0.48    |
|                           | 6                  | 0.10             |         | 0.04                | 0.48    |
|                           | 7                  | 0.57             |         | 0.03                | N/A     |
|                           | 8                  | 0.54             |         | 0.03                |         |
|                           | 9                  | 0.49             |         | 0.04                |         |
| -82.5<br>Test<br>Pressure | 4                  | 0.13             | N/A     | 0.02                | 0.48    |
|                           | 5                  | 1.04             |         | 0.09                | 0.48    |
|                           | 6                  | 0.25             |         | 0.14                | 0.48    |
|                           | 7                  | 0.69             |         | 0.07                | N/A     |
|                           | 8                  | *                |         | *                   |         |
|                           | 9                  | 0.47             |         | 0.02                |         |

*\*Indicator was disengaged during load; no deflections or permanent sets available.*

**Note:** See Architectural Testing Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement.

**Conclusion:** Architectural Testing observed no signs of failure in any area of the test specimen during the TAS 202 testing; as such, the test specimen satisfies the requirements of TAS 202.

**6.0 Test Results:** The temperature during TAS 201 testing was 83°F. Results are tabulated as follows:

**6.2 Protocol TAS 201-94, Large Impact Procedures.**

Tables 14, 15, and 16 provides the results for the large missile impact test.

Table 14: Test Specimen #1 TAS 201, Large Missile Impact Test Results

| Impact # | Missile Weight (lbs.) | Missile Length (in.) | Missile Velocity (ft./sec.) | Observations.                               |
|----------|-----------------------|----------------------|-----------------------------|---|
| 1        | 9                     | 96"                  | 50.0                        | Missile hit impact area; fractured glass    |
| 2        | 9                     | 96"                  | 49.7                        | Missile hit impact area; re-fractured glass |

Table 15: Test Specimen #2 TAS 201, Large Missile Impact Test Results

| Impact # | Missile Weight (lbs.) | Missile Length (in.) | Missile Velocity (ft./sec.) | Observations.   |
|----------|-----------------------|----------------------|-----------------------------|---|
| 1        | 9                     | 96"                  | 50.0                        | Missile hit impact area; fractured glass                  |
| 2        | 9                     | 96"                  | 50.5                        | Missile hit impact area; re-fractured glass               |
| 3        | 9                     | 96"                  | 49.7                        | Missile hit impact area; Dented vertical aluminum mullion |

Table 16: Test Specimen #3 TAS 201, Large Missile Impact Test Results

| Impact # | Missile Weight (lbs.) | Missile Length (in.) | Missile Velocity (ft./sec.) | Observations.   |
|----------|-----------------------|----------------------|-----------------------------|---|
| 1        | 9                     | 96"                  | 50.3                        | Missile hit impact area; fractured glass                    |
| 2        | 9                     | 96"                  | 50.0                        | Missile hit impact area; re-fractured glass                 |
| 3        | 9                     | 96"                  | 50.4                        | Missile hit impact area; Dented vertical aluminum mullion   |
| 4        | 9                     | 96"                  | 50.4                        | Missile hit impact area; Dented horizontal aluminum mullion |



**6.0 Test Results:** (Continued)

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

**Conclusion:** The large missiles impacted each intended target and Architectural Testing carefully inspected each impact location. Architectural Testing observed no signs of penetration, rupture, or opening after the large missile impact test; as such, each test specimen satisfies the large missile requirements of TAS 201.

**6.0 Test Results:** The temperature during TAS 203 testing was 83°F. Results are tabulated as follows:

**6.3 Protocol TAS 203-94, Cyclic Wind Pressure Loading**

Tables 17 through 19 provides the results for the positive and negative cyclic load test.

Table 17: Test Specimens #1, 2 and 3 TAS 203, Cyclic Test Spectrum and Average Cycle Time

| Design Pressure           | +55 / -55 psf | Stage     |           |           |           |
|---------------------------|---------------|-----------|-----------|-----------|-----------|
|                           |               | 1         | 2         | 3         | 4         |
| Pressure Range (psf)      |               | 11 – 27.5 | 0.0 – 33  | 27.5 – 44 | 16.5 – 55 |
| Average Cycle Time (sec.) |               | 3.60      | 4.04      | 3.89      | 5.69      |
| Number of Cycles          |               | 3500      | 300       | 600       | 100       |
|                           |               | 5         | 6         | 7         | 8         |
| Pressure Range (psf)      |               | 16.5 – 55 | 27.5 – 44 | 0.0 – 33  | 11 – 27.5 |
| Average Cycle Time (sec.) |               | 4.86      | 4.43      | 5.67      | 3.68      |
| Number of Cycles          |               | 50        | 1050      | 50        | 3350      |

Table 18: Test Specimen #1, 2 and 3 TAS 203, Positive Cyclic Load Test Results

| Indicator Location | Maximum Deflection | Permanent Set (in.) | Permanent Set. |           |
|--------------------|--------------------|---------------------|----------------|-----------|
|                    |                    |                     | Net.           | Allowable |
| 4                  | 0.03               | 0.01                | N/A            | N/A       |
| 5                  | 0.63               | 0.02                | <0.01          | 0.48      |
| 6                  | 0.07               | 0.03                | N/A            | N/A       |
| 7                  | 0.35               | 0.02                | N/A            | N/A       |
| 8                  | 0.32               | 0.01                |                |           |
| 9                  | 0.28               | 0.02                |                |           |

## 6.0 Test Results: (Continued)

### 6.3 Protocol TAS 203-94, Cyclic Wind Pressure Loading

Table 19: Test Specimens #1, 2 and 3 TAS 203, Negative Cyclic Load test results

| Indicator Location | Maximum Deflection | Permanent Set (in.) | Permanent Set |           |
|--------------------|--------------------|---------------------|---------------|-----------|
|                    |                    |                     | Net           | Allowable |
| 4                  | 0.12               | 0.09                | N/A           | N/A       |
| 5                  | 0.76               | 0.27                | 0.19          | 0.48      |
| 6                  | 0.12               | 0.08                | N/A           | N/A       |
| 7                  | 0.48               | 0.12                | N/A           | N/A       |
| 8                  | 0.46               | 0.15                |               |           |
| 9                  | 0.38               | 0.10                |               |           |

**Note:** See Architectural Testing Sketch #1 for indicator locations. Deflection/permanent set reported is the overall deflection between three points (longest unsupported span) which accounts for support movement. Test Specimens #1, #2 and #3 were cycled in a common chamber.

**Conclusion:** Architectural Testing observed no signs of failure in any area of the test specimens during the cyclic load test; as such, the test specimens satisfy the cyclic load requirements of TAS 203.

## 7.0 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

## 8.0 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.

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

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

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.



Architectural Testing will service this report for the entire test record retention period. Test records that are retained such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation will be retained by Architectural Testing, Inc. for the entire test record retention period.

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(s) tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, Inc.

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Scott Parker  
Technician

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Shawn G. Collins, P.E.  
Manager - Regional Operations

SP:jah

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

Appendix A: Sketches (1)

Appendix B: Photographs (2)

Appendix C: Drawings (7)



**Architectural Testing**

Test Report No.: C3787.01-401-18

Report Date: 8/22/2013

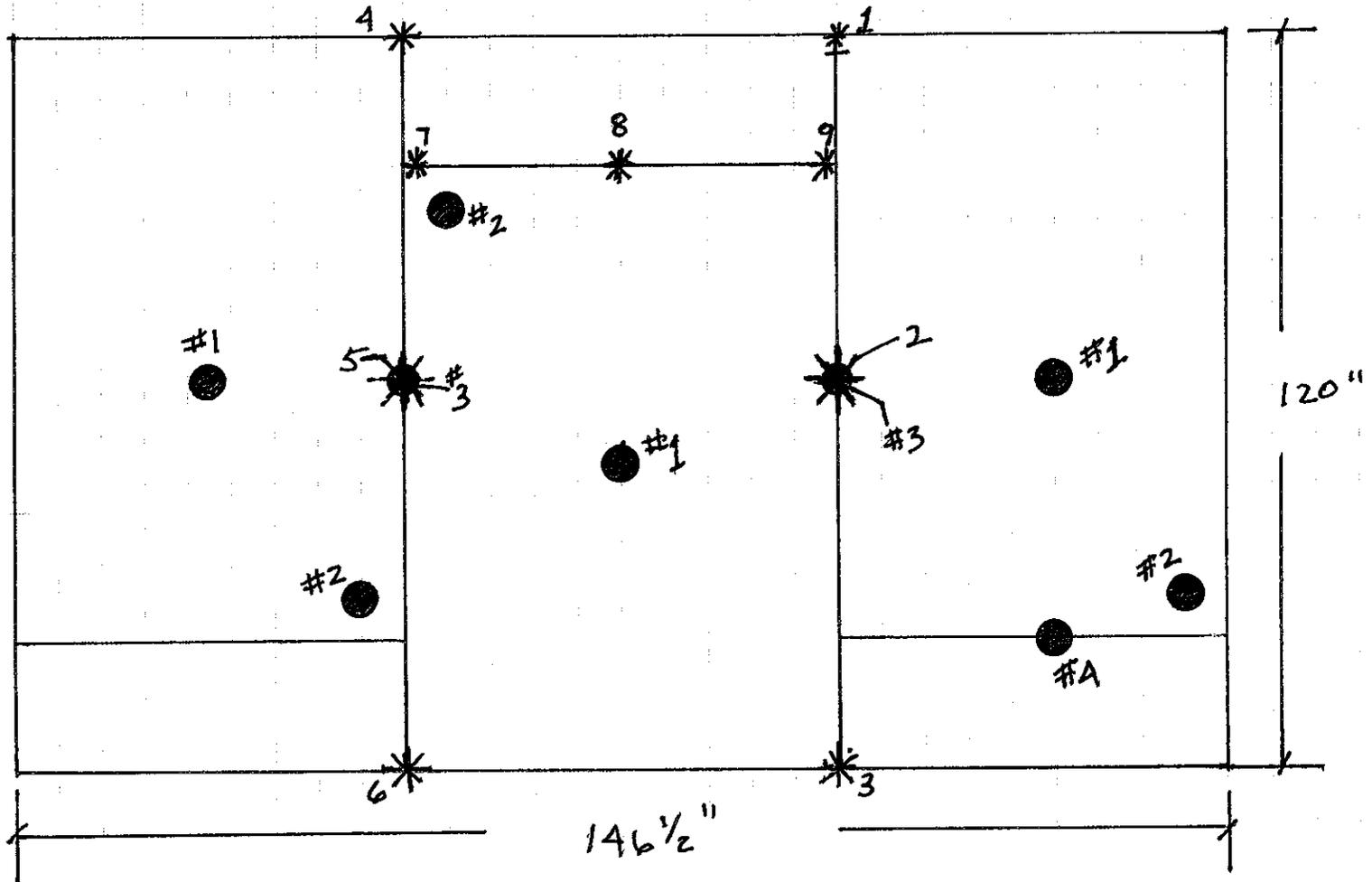
## **Appendix A**

### **Sketches**

# ATI Sketch # 1

\* - INDICATOR LOCATIONS

● - IMPACT LOCATIONS





## Appendix B

### Photographs



**Photo No. 1**  
**TAS 202 Specimen and TAS 201 and**  
**TAS 203 Specimens #1, 2 and 3**



Architectural Testing

Test Report No.: C3787.01-401-18

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**Photo No. 2**  
**TAS 201 and TAS 203 Specimens #1, 2 and 3**



**Architectural Testing**

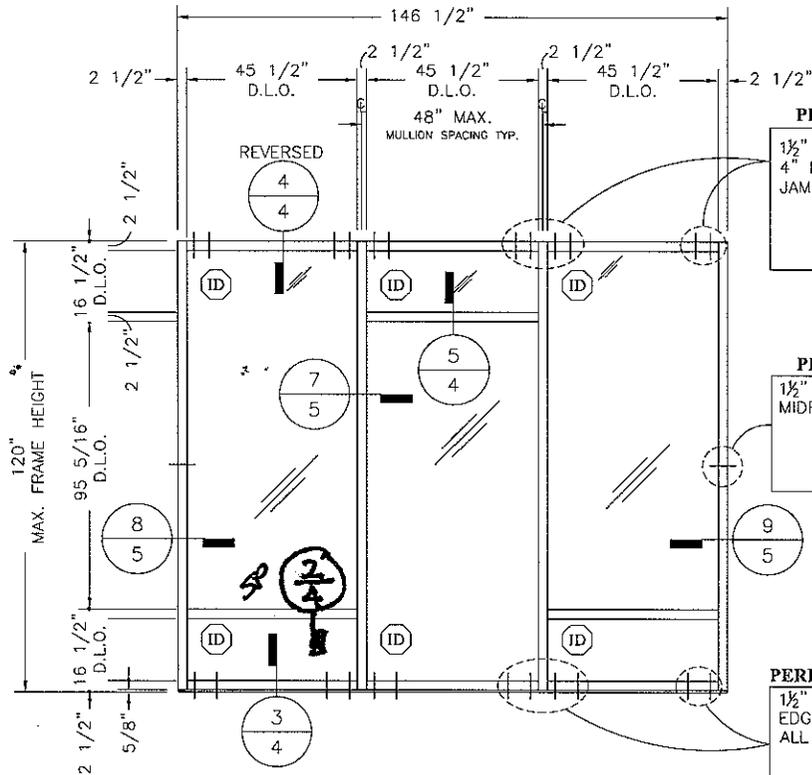
Test Report No.: C3787.01-401-18

Report Date: 8/22/2013

## **Appendix C**

### **Drawings**





**PERIMETER FASTENERS**  
 1 1/2" X #14 TEK SCREW 2" AND 4" FROM EDGE OF VERTICAL OR JAMB.  
 SP

**PERIMETER FASTENERS**  
 1 1/2" X #14 TEK SCREW AT MIDPOINT.  
 SP

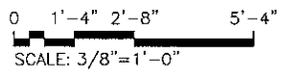
**PERIMETER FASTENERS TO SUBSILL FL539T**  
 1 1/2" X #14 PHSMS 2" AND 4" FROM EDGE OF VERTICAL OR JAMB TYPICAL ALL LOCATIONS  
 SP

FL539T SUB SILL IS ANCHORED AT 4" FROM EACH END AND 24" ON CENTER WITH 1 1/2" X #14 TEK SCREW  
 SP

**E1 - LARGE MISSILE**

WEEP HOLES ON FACE OF FL539T 6 3/4" FROM EDGE OF JAMBS AND VERTICALS 1/4" IN DIAMETER  
 SP

- TESTING:**  
 AIR, WATER, STATIC, IMPACT, AND CYCLE
- MAX. ALLOWABLE DEFLECTION = 0.667"
- DESIGN PRESSURE = +/-55 PSF SP
- WATER TEST AT 15 PSF SP
- AIR @ 6.24 P.S.F. SP

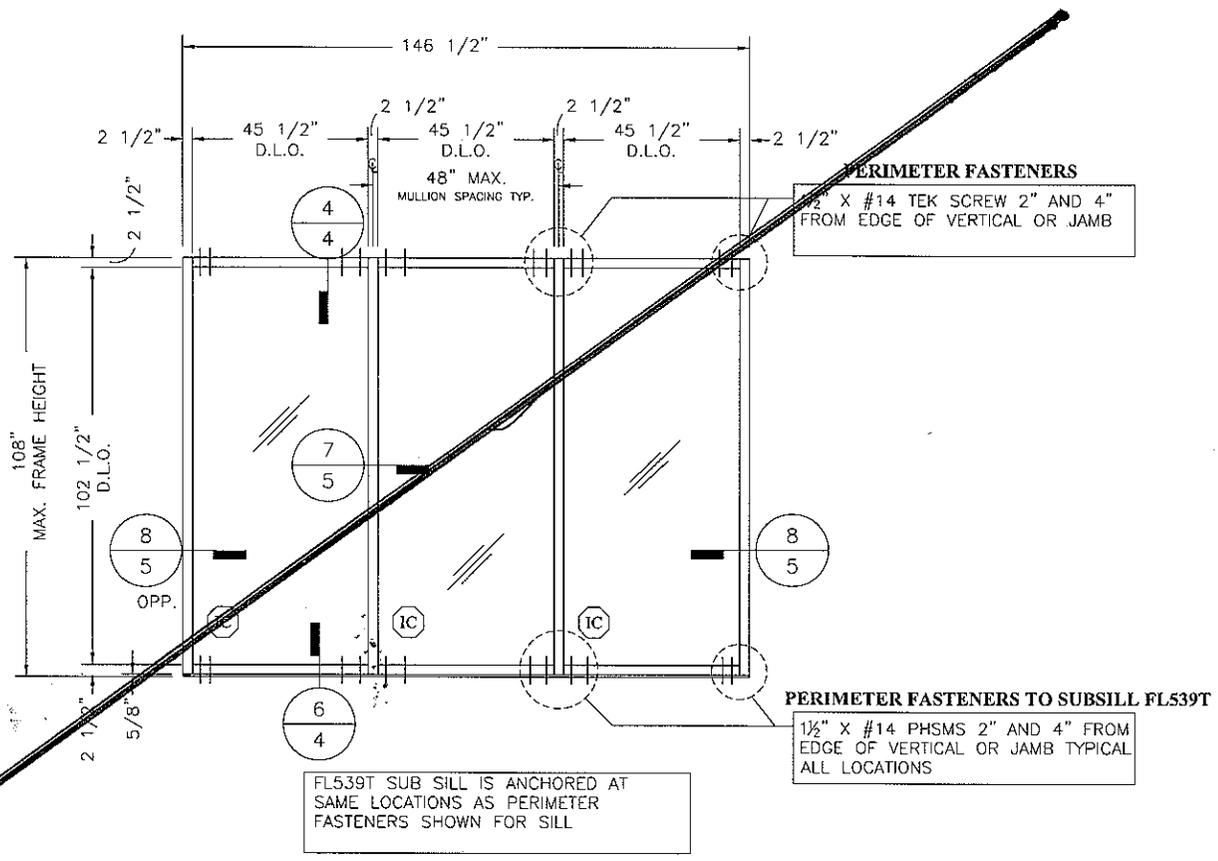


**Architectural Testing**

Test sample complies with these details.  
 Deviations are noted.

Report# C3787.01-401-18  
 Date 8/21/2013 Tech SP

|   |         |           |             |
|---|---------|-----------|-------------|
| REV   |         | DATE      | DESCRIPTION |
|   |         |           |             |
|   |         |           |             |
|   |         |           |             |
| 3515 RICE AVE. ROAD, THUNDERBOLT, AL 36089<br>PHONE: 334.722.7179 FAX: 334.286.3349   |         |           |             |
| <b>TEST REPORT DRAWINGS FOR<br/>         FL550T WINDOW WALL SYSTEM<br/>         PROTOCOLS: TAS201/202/203<br/>         CENTER GLAZED IMPACT<br/>         FRAMING ELEVATIONS</b> |         |           |             |
| DATE  |         | 8/21/2013 |             |
| DRAWN   | CHECKED | APPROVED  |             |
| MLF   | W/S     | W/S       |             |
| PROJECT NO.   |         |           |             |
| DRAWING NO.   |         |           |             |
| FL550T_01   |         |           |             |
| SHEET 2 OF 7  |         |           |             |



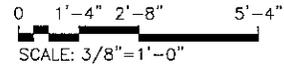
TESTING:  
IMPACT AND CYCLE

DESIGN PRESSURE = +/-55 PSF

STEEL TEST BUCK

~~E2 - SMALL MISSILE~~

WEEP HOLES ON FACE OF FL539T  
6 3/4" FROM EDGE OF JAMBS AND  
VERTICALS 3/8" IN DIAMETER



Test sample complies with these details.  
Deviations are noted.

Report# C3787.01-401-18

Date 8/21/2013 Tech SP

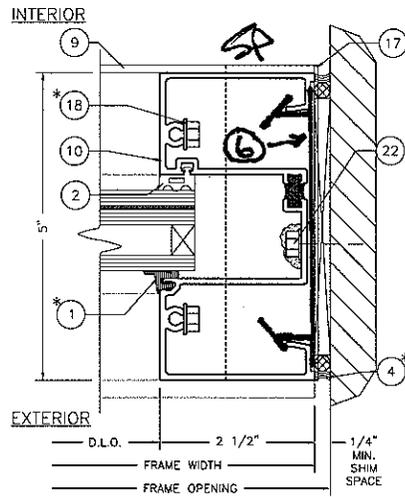
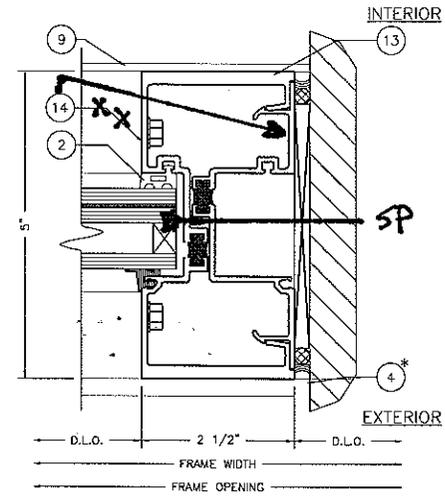
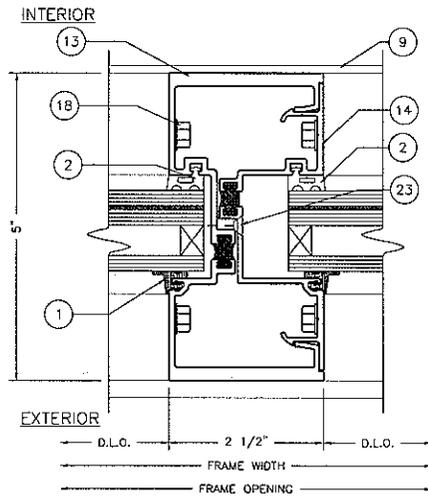
| REV | BY  | DATE     | DESCRIPTION |
|-----|-----|----------|-------------|
| 2   | JAS | 12/11/07 | REVISED     |
| 1   | NSH | 02/04/08 | REVISED     |

**Coral**  
Architectural Products  
3010 BRISTLE WINE ROAD, TUALOHA, OREGON, U.S.A. 97146  
PHONE: 503-722-9793 FAX: 503-265-2226

TEST REPORT DRAWINGS FOR  
FL550T WINDOW WALL SYSTEM  
PROTOCOLS: TAS201/202/203  
CENTER GLAZED IMPACT  
FRAMING ELEVATIONS

|             |           |         |          |
|-------------|-----------|---------|----------|
| DATE        | 8/21/2013 |         |          |
| DRAWN       | MLF       | CHECKED | APPROVED |
| PROJECT NO. |           | WS      | WS       |
| DRAWING NO. | FL550T_01 |         |          |
| SHEET       | 3 OF 7    |         |          |





Test sample complies with these details.  
Deviations are noted.

Report# C3787.01-401-18

Date 8/21/2013 Tech SP

| REV | BY | DATE | DESCRIPTION |
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TEST REPORT DRAWINGS FOR  
FL550T WINDOW WALL SYSTEM  
PROTOCOLS: TAS201/202/203  
FRAMING DETAILS

|              |           |          |  |
|--------------|-----------|----------|--|
| DATE         | 8/20/2013 |          |  |
| DRAWN        | CHECKED   | APPROVED |  |
| ###          | WS        | ###      |  |
| PROJECT NO.  |           |          |  |
| DRAWING NO.  |           |          |  |
| FL550T_01    |           |          |  |
| SHEET 5 OF 7 |           |          |  |

## BILL OF MATERIALS

| ITEM NO.      | P/N             | DESCRIPTION                           | DIMENSIONS                   | MATERIAL                 | MANUFACTURER           | NOTES  |
|---------------|-----------------|---------------------------------------|------------------------------|--------------------------|------------------------|--|
| 1             | NG1             | EXTERIOR GLAZING GASKET               | 0.120 SPACE                  | EPDM                     | VARIES                 |  |
| 2             | NG15            | INTERIOR SPACER GASKET                | 0.250 SPACE                  | EPDM                     | VARIES                 |  |
| 3             | SM5601          | JOINT SEALANT TAPE                    | 0.500 X 0.125 X VARIES       | BUTYL                    | SCHNEE-MOOREHEAD       |  |
| 4             | 795             | SILICONE - PERIMETER SEALANT          | FILL SPACE                   | SILICONE                 | DOW CORNING            | USED @ PERIMETER   |
| 5             | 995             | SILICONE - GLASS TO METAL             | FILL SPACE                   | SILICONE                 | DOW CORNING            | GLASS TO METAL AND INTERNAL                                  |
| 6             | FL515-1         | FLAT FILLER                           | 0.681 X 4.658 X 0.070        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 7             | SB15            | SETTING BLOCK @ SILL & HORIZONTAL     | 0.687 X 1.468 X 4.000        | EPDM                     | VARIES                 | 2 PER LITE   |
| 8             | WD300-1         | WATER DIVERTER                        | 1.358 X 1.344 X 4.000        | INJECTION MOLDED PLASTIC | CORAL INDUSTRIES, INC. | @ EACH END OF HORIZONTAL                                     |
| 9             | FL539T          | SUBSILL FLASHING                      | 2.620 X 5.402 X 0.084        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 10            | FL571T          | HEAD OR WALL JAMB                     | 2.500 X 5.000 X 0.094        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 11            | FL572T          | SILL OR HEAD                          | 2.500 X 4.980 X 0.094        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 12            | FL553           | GLASS STOP                            | 1.250 X 1.646 X 0.078        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 13            | FL574T          | <del>HEAD</del> STD. VERTICAL MULLION | 2.500 X 5.000 X 0.094        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 14            | FL575T          | OPEN BACK MULLION FILLER              | 0.681 X 4.670 X 0.080        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 15            | FL576T          | INTERMEDIATE HORIZONTAL               | 2.500 X 4.980 X 0.094        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 16            | CS500-1         | SETTING CHAIR                         | 1.156 X 0.844 X 0.078        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 17            | ED519-1         | SILL FLASHING END DAM                 | 2.500 X 1.000 X 0.062        | 6063-T6 ALUMINUM         | CORAL INDUSTRIES, INC. |  |
| 18            | AS16            | FASTENER                              | #14 X 1" HHSTS               | STEEL                    | VARIES                 | TYP. SPLINE SCREW VERTICAL/HORIZONTAL JOINTS                 |
| 19            | NOT USED        |                                       |                              |                          |                        |  |
| 20            | AS21            | FASTENER                              | #6 X 1/4" PPH                | STEEL                    | VARIES                 | ANCHOR(17) (ED519-1) TO(9)(FL539T)                           |
| <del>21</del> | <del>AS57</del> | <del>FASTENER</del>                   | <del>#12 X 1/2" PHPSMS</del> | <del>S. STEEL</del>      | <del>VARIES</del>      | <del>ANCHOR(18) FL574T TO (10) FL539T INSIDE SET ONLY</del>  |
| 22            | ANCHOR          | FASTENER                              | #14 X 2" HH TEK SCREW        | ZINC PLATED              | VARIES                 | ANCHOR MISC PARTS TO SUBSTRATES                              |
| 23            | AS29            | FASTENER                              | #8 X 2" FHPUC                | S. STEEL                 | VARIES                 | ANCHOR (14) FL575T TO (13) FL574T COUNTER SINK AND BREAK OFF |
| 24            | AS59            | FASTENER                              | #14 X 1 1/2" PHPSMS          | ZINC PLATED              | VARIES                 | ANCHOR (11) FL572T TO (8) FL539T                             |

## GLAZING SCHEDULE

| GLASS DESCRIPTION  | MANUFACTURER      | GLASS MARK    | MAXIMUM D.L.O. SIZE (INCHES)  | SQUARE FEET      | MAXIMUM DESIGN PRESSURE (PSF) |
|--|-------------------|---------------|-------------------------------|------------------|-------------------------------|
| 1-5/16" INSULATED -.25T X 1/2" AB AS X .25T X .090 SENTRY GLAS X .25T            | DUPONT            | ID            | 45-1/2" X 96"                 | 30.33            | +/-55                         |
| <del>1-5/16" INSULATED -.25T X 1/2" AB AS X .25T X .035 SENTRY GLAS X .25T</del> | <del>DUPONT</del> | <del>ID</del> | <del>45-1/2" X 102-3/8"</del> | <del>32.33</del> | <del>+/-55</del>              |



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TEST REPORT DRAWINGS FOR  
 FL550T WINDOW WALL SYSTEM  
 PROTOCOLS: TAS201/202/203  
 CENTER GLAZED IMPACT  
 BILL OF MATERIALS AND GLAZING  
 SCHEDULE

|             |           |          |  |
|-------------|-----------|----------|--|
| DATE        | 8/21/2013 |          |  |
| DRAWN       | CHECKED   | APPROVED |  |
| MLF         | WS        | WS       |  |
| PROJECT NO. |           |          |  |
| DRAWING NO. | FL550T 01 |          |  |
| SHEET       | 6 OF 7    |          |  |

