

4.0 APPLICABLE TEST METHODS, SPECIFICATIONS, AND PROTOCOLS

Florida Building Code TAS 201-94 – Impact Test Procedures
 Florida Building Code TAS 202-94 – Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components using Uniform Static Air Pressure
 Florida Building Code TAS 203-94 – Criteria for Testing Products Subject to Cyclic Wind Pressure Loading

5.0 TEST SPECIMEN IDENTIFICATION

- 5.1 Test Specimen Type: Inswing and Outswing Pair of Doors
 5.2 Model Designation: Portillo Series Swing Doors
 5.3 Overall Size: Table 2 provides the overall size for each specimen.

Table 2: Specimen Overall Size

Specimen #	Overall Size
1, 2, 3, 4	75" (w) x 98" (h)
6	75" (w) x 97-1/4" (h)

- 5.4 Number of Operable Door Leaves: Two (2) per specimen
 5.5 Size of Each Operable Door Leaf: 36" (w) x 96" (h)
 5.6 Configuration: X-X
 5.7 Drawings: Test specimen construction was verified by Architectural Testing per the drawings located in Appendix A. Any deviations are documented herein and/or on the drawings.
 5.8 Test Specimen Source: Florida Impact Door Systems, Inc. provided the test specimens.

6.0 TEST SPECIMEN DESCRIPTION

- 6.1 Frame Construction
 The frame was fabricated using the aluminum extrusions and wood members defined in Table 3. Three different types of wood, Sapele, Khaya, or Mara macho, were used to make the frame members.

Table 3: Aluminum Extrusion and Wood Member Details

Specimen #	Frame Member	Part #	Material/Construction	Dimensions
1, 2, 3, 4, 6	Head and jambs	FIDS-1	Solid wood	4-9/16" x 1-1/4"
1 and 3	High dam threshold	4866	6063-T6 aluminum	5-3/4" x 1-5/8"
	Threshold sill cap	FIDS-5A	Solid wood	2-3/4" x 5/8"
2 and 4	Hydrosill™ Series 5000	5000	6063-T6 aluminum/open cell foam/polyethylene clad urethane foam	4" x 1-1/2"
2	Wood saddle for inswing threshold with weeps	FIDS-19	Solid wood	3-1/4" x 1-1/8"
4	Wood saddle for inswing threshold without weeps	FIDS-20	Solid wood	3-1/4" x 1-1/4"
6	ADA threshold/weather strip assembly	2005AV	6063-T6 aluminum/vinyl	5" x 1/2"



6.1.1 Corner Construction

The corners were constructed as described in Table 4

Table 4: Corner Construction

Specimen #	Location	Construction Details	Joint Sealant
1, 2, 3, 4, 6	Top	At each corner, the frame jambs (Part # FIDS-1) ran through and the end was notched. Each end of the head (Part # FIDS-1) was square-cut, butted and mechanically attached to the frame jambs using three #10 x 2" FH SMS.	Sikaflex®-15LM
1 and 3	Bottom	At each corner, the frame jambs ran through and the end was notched. Each end of the high dam threshold (Part # 4866) was square-cut, butted and mechanically attached to the frame jambs using three #10 x 2" FH SMS.	
2 and 4	Bottom	At each corner, the frame jambs ran through and the end was notched. Each end of the Hydrosill™ Series 5000 (Part # 5000) was square-cut, butted and mechanically attached to the frame jambs using three #10 x 2" FH SMS.	
6	Bottom	At each corner, the frame jambs ran through and the end was notched. The ADA threshold (Part # 2005AV) was not mechanically attached to the frame jambs.	

6.1.2 Threshold Sill Cap

The threshold sill cap (Part # FIDS-5) was fit into the top of the high dam threshold and attached using a continuous double bead of Sikaflex®-15LM.

6.1.3 Wood saddle with weeps – Specimen 2

The wood saddle for inswing threshold with weeps (Part # FIDS-19) was fit into the interior side of the Hydrosill™ Series 5000 and attached using a single row of #8 x 5/8" FH SMS spaced 1-1/2" from each end and 6-1/2" on center thereafter.

6.1.4 Wood saddle without weeps – Specimen 4

The wood saddle for inswing threshold without weeps (Part # FIDS-20) was fit into the interior side of the Hydrosill™ Series 5000 and attached using a single row of #8 x 5/8" FH SMS spaced 1-1/2" from each end and 6-1/2" on center thereafter. The saddle was also attached through the aluminum tube using #12 x 3/4" FH SMS spaced 4-1/2" from each end and 11" on center thereafter. A strip of wood was laid into the notch at the top of the saddle and was not attached in any way.

6.2 Door Leaf Construction

The door leaves were fabricated using the wood frame members defined in Table 5. Three different types of wood, Sapele, Khaya, or Mara macho, were used to make the frame members. Either CP Adhesives' CP-0503 Urea Resin or Casco Adhesives' Wood Adhesive system 3010 were used in the laminated frame members.