

## IMPACT TEST PROCEDURES

### **TAS 201 (FBC HVHZ - Miami-Dade):**

2x4 Length: 7 feet – 9 feet

Weight of Missile: 9 lb – 9.5 lb

Velocity: 50 ft/s

Distance: 9 feet plus the length of the missile from the end of the cannon to the specimen

### **ASTM E1886/E1996 (FBC Non-HVHZ):**

2x4 Length: 8 ft +/- 4 in

Weight of Missile: 9.0 lb. +/- 0.25 lb

Velocity: 50 ft/s second for Level D

Distance: Locate the end of the propulsion device from which the the missile will exit at a minimum distance from the specimen equal to 1.5 times the length of the missile. The distance shall be no less than 1.80 m.

## UNIFORM STATIC TEST PROCEDURES

### **TAS 202 (FBC HVHZ - Miami-Dade):**

-Positive Pre-Load of ½ the Test Load for 30 s

-Positive Design Load for 30 s

-Positive Test Load of 1.5 the design load for 30 s

-Negative Pre-Load of ½ the Test Load for 30 s

-Negative Design Load for 30 s

-Negative Test Load of 1.5 the design load for 30 s

### **ASTM E330 (FBC Non-HVHZ):**

-Positive Design Load for 10 s

-Positive Test Load of 1.5 the design load for 10 s

-Negative Design Load for 10 s

-Negative Test Load of 1.5 the design load for 10 s

## CYCLIC TEST PROCEDURES

### **TAS 203 (FBC HVHZ – Miami-Dade)**

**Fatigue Test – Used on Shutters:**

	Inward (+ve)			Outward (-ve)		
Stage #	1	2	3	4	5	6
Load Range	0.0 – 0.5	0.0 – 0.6	0.0 – 1.3	0.0 – 0.5	0.0 – 0.6	0.0 – 1.3
Cycles	600	70	1	600	70	1

**Glazed Products:**

	Inward (+ve)				Outward (-ve)			
Stage #	1	2	3	4	5	6	7	8
Load Range	0.2 – 0.5	0.0 – 0.6	0.5 - 0.8	0.3 – 1.0	0.3 – 1.0	0.5 – 0.8	0.0 – 0.6	0.2 – 0.5
Cycles	3500	300	600	100	50	1050	50	3350

**ASTM E1886/E1996 (FBC Non-HVHZ):**

	Inward (+ve)				Outward (-ve)			
Stage #	1	2	3	4	5	6	7	8
Load Range	0.2 – 0.5	0.0 – 0.6	0.5 - 0.8	0.3 – 1.0	0.3 – 1.0	0.5 – 0.8	0.0 – 0.6	0.2 – 0.5
Cycles	3500	300	600	100	50	1050	50	3350

**Mill Thickness of Plastic Used: 2 mil**

**Is there a test for Louvers? Yes**

**REQUIREMENTS FOR DECORATIVE SHUTTERS: Three (3) identical units need to be tested per TAS 202 (static only) to check the anchoring and the operability if any. This is for the Florida Building Code (HVHZ). Even though they need to test per ASTM E330, they do not have to get any type of approval.**

**TESTING FOR IBC: We test for IBC. IBC uses all of the ASTM standards we test for. Labs do not give approvals, so you would not get a number from us. You would have to turn in our test reports to whomever you need the approval from that is asking you to test per the IBC. The International Building Code does not approve products. It's just a building code for you to follow in whatever area it's used at. Our test report will show the test results from your testing.**