



IMPACT WINDOW TEST PERFORMANCE

Aluminum Thermally-Broken Steel Reinforced Security Window Series S6100 – S6200 – S6300 - S6400		
Grade 1 Performance Detention Systems ASTM F 1592-05	3 steps each of 600 impacts with a steel ram at 200ft-lbs on frame and glazing	
Grade 1 Performance Detention Glazing ASTM F 1915-05	7 steps each of 150 or 300 impacts at 100-200 ft-lbs at the center of the glazing with alternating blunt and sharp objects at temperatures between -20 & 2000 degrees Fahrenheit	
Impact Resistance Detention Systems custom test	Tapcons remain firmly in place following 400 blows by an 84 lb. Steel ram with 5.4 in ² nose. Pendulum system impacts center of laminated polycarbonate lexgard with 210 ft-lbs	
Air Infiltration	.0046 cfm/ft ² @ 6.24 psf – ASTM E283-91	
Water Resistance	No leakage @ 14.62 psf – ASTM E547-00	
Structural – Residual Deflection	.005” @ +41.8 psf	.006” @ -41.8 psf
Condensation Resistance	I = 56	
U-Value	.53 BTU/hrft ² F (1/4” X 1/4” IG & 1/2” lami polycarbonate security glazing)	
Aluminum Thermally-Broken Hurricane Rated Window – Series TB-502H Fixed over Projected – TAS 201, TAS 202, TAS 203		
TAS 201	Large missile impact test ASTM E1886/E1996	
TAS 202	Air infiltration ASTM E283 Water infiltration ASTM E331 Static Load ASTM E330 Forced Entry ASTM E588,	
TAS 203	Cyclic Load test ASTM E1886/1996)	