

January 27, 2012

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Mr. Clyde Allen  
The Tapco Group  
4057 South Oak Street  
Metamora, MI 48455

RE: Intertek Summary Letter 100625560MID-02 (Please reference Intertek Test Report G100061092MID-001 for full test report)  
Shutter Type: Atlantic Premium Shutters Architectural Collection Raised Panel (1/8" polycarbonate sheet on exterior)  
Shutter Size: 30" by 102"  
Test Standards: R & D large missile testing per ASTM E1886-05 Sections 11.1.2 through 11.3

**Architectural Collection- Raised Panel**

Sample	Impact Location	Missile Speed (ft/sec)	Observations	Through Penetration
#18	#1- Center Panel	50	Crack in horizontal member	No
	#2- Center Meeting Edge	49	Minimal effect	No
	#3- Lower Right Corner	50	Hinge bent- cracked bottom rail	No
#20	#1- Center Panel	50	Horizontal crack	No
	#2- Center Meeting Edge	50	Cracked meeting stiles	No
	#3- Lower Left Corner	50	Crack in fiberboard	No
#21	#1- Center Panel	50	Crack	No
	#2- Center Meeting Edge	50	Cracked meeting stiles	No
	#3- Upper Right Corner	50	Crack	No

Summary of Results

Missile Level	D (per ASTM E1996)
Nominal Missile Speed	50 ft/sec
Wind Zone	4 (per ASTM E1996)

Note: The test specimens were only tested to the impact portion of ASTM E1886.

Reported by:



Russ Burt  
Senior Associate Engineer

Reviewed by:



Rick Curkeet, P.E.  
Chief Engineer



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