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

RE: Intertek Summary Letter 100625560MID-01 (Please reference Intertek Test Report G100061092MID-001 for full test report)
Shutter Type: Atlantic Premium Shutters Architectural Collection Louver (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- Louver

Sample	Impact Location	Missile Speed (ft/sec)	Observations	Through Penetration
#13	#1- Lower Right Corner	51	Crack in lower rail- knocked out approx. 13 louvers- approx. 3.5" permanent deformation	No
	#2- Center Meeting Edge	51	Crack in meeting stile- knocked out numerous louvers- tie bar bolts replaced with 2.5"	No
	#3- Center Panel	50	Crack in fiberglass- knocked out numerous louvers	No
#14	#1- Lower Left Corner	50	Crack in bottom rail- bent hinge- knocked out numerous louvers	No
	#2- Center Meeting Edge	51	Crack in meeting edge stile- knocked out louvers	No
	#3- Center Panel	50	Crack in fiberglass- knocked out louvers	No
#15	#1- Center Meeting Edge	50	Minimal effect	No
	#2- Center Panel	50	Knocked out approx. 20 louvers-Crack in fiberglass	No
	#3- Upper Left Corner	49	Broke hinge support- Crack in top rail- knocked out louvers	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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