

LLumar Safety and Security Film

Specification Data

Film-to-Glass Specification		Safety			Windborne Debris Protection							Blast Mitigation					Security		
		CPSC 16 CFR 1201.4 Cat. I †	CPSC 16 CFR 1201.4 Cat. II †	ANSI Z97.1 †	Air Infiltration ASTM E283 and TAS 202	Water Infiltration Test ASTM E-331 and TAS 202	Uniform Static Load Test ASTM E 1330 and TAS 202	Cyclic Load Test TAS 203	TAS-201 Small Missile	ASTM E1886/1996 Large Missile Level "C"	ASTM E1886/1996 Small Missile "A"	FM Approvals 4350 Small Missile	GSA Level 1 (4 psi, 28 psi- <i>msec</i>)	GSA Level 2 (4psi,28 psi- <i>d-msec</i>)	GSA Level 3a (4 psi, 28 psi- <i>msec</i>)	GSA Level 3b (6 psi, 42 psi- <i>msec</i>)	GSA Level 3c (10 psi, 50 psi- <i>msec</i>)	GSA Level 3d (12.8 psi, 68 psi- <i>msec</i>)	Burglary Resistant Glazing - UL972
1/8" Annealed	LLumar 4 mil	•	•	•															
3/16" Tempered	LLumar 6 mil	•	•	•	①	①	①	①	①	①									
1/8" Annealed	LLumar 7 mil	•	•	•															
1/4" Annealed	LLumar 7 mil	•	•	•											•				
3/16" Tempered	LLumar 8 mil	•	•	•	①	①	①	①	①	①									
1/4" Annealed	LLumar 8 mil	•	•	•	①	①	①	①		①	①				①②③	①		②	
1/4" Tempered	LLumar 8 mil	•	•	•							①	①	③	①②					
Dual Pane* (1/4" Annealed)	LLumar 8 mil	•	•	•	①	①	①	①	①	①				①③					
Dual Pane* (1/4" Tempered)	LLumar 8 mil	•	•	•	①	①	①	①	①	①		①③							
1/4" Tempered	LLumar 11 mil	•	•	•	①	①	①	①		①	①								



* On IGU: Only pane with film is protected.

† CPSC and ANSI Testing on IGU: Only interior pane of unit is protected with film.

• Included

① With Wet Glaze Attachment System

② With Gullwing or LLumar Elite Attachment System

③ With FrameLok Attachment System

NOTICE ABOUT STANDARDS MENTIONED ABOVE: The testing referenced on this document was conducted on complete window systems. A window system is comprised of components such as: Film, glass, attachment system, frame type (material and shape), anchoring etc. Results and claims are valid only when the safety film is installed as tested. A licensed professional engineer must sign off and approve the testing on systems that differ from tested samples.

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