

**IMPACT TESTING ON SAFETY GLAZING MATERIAL**

Rendered to:

GLAS-WULFMEIER GMBH  
Eckendorfer Strasse 45-47  
D-33609 Bielefeld  
Germany

Report No: 92729.01-301-37  
Test Date: 06/02/09  
Report Date: 07/21/09

Sample ID: Prototype                      1/4" Laminated Transparent Glass (2.7 mm - 0.030" - 2.7 mm)

Samples Obtained from Manufacturer: Glas-Wulfmeier GmbH - Bielefeld, Germany

Lab Temperature: 80°F                      Size Classification: Unlimited

Duration of Pre-Conditioning @ 65 - 85°F: 72 Hours

Specimen Size: 34" wide by 76" high / Impact test; 12" x 12" / Boil test

All test specimens were destroyed by test or by our personnel and have been disposed of as trash.

**Interlayer Thickness:**

Sample Type	Overall Thickness, inches	Lite Thickness, inches		Interlayer Thickness, inches	Interlayer Type
		Side 1	Side 2		
Boil	0.254	0.113	0.112	0.029	Kuraray Trosifol BG R15 (PVB)
Impact	0.257	0.113	0.113	0.031	

**BOIL TEST:**

Spec. No.	Overall Thickness, inches	Test Results		Acceptance Criteria:
		Observations	Pass / Fail	
1	0.254	Cracked / No bubbles or defects	Pass	No bubbles or defects more than 1/2" from edge or crack.
2	0.248	Cracked / No bubbles or defects	Pass	
3	0.254	Cracked / No bubbles or defects	Pass	

**IMPACT TEST: (ANSI Class A / CPSC Category II)**

Spec. No.	Test Standard	Thickness, inches	Impact Drop Height, inches	Test Results <sup>1</sup>	
				Observations	Pass / Fail
1	ANSI Z97.1-2004	0.257	48	Cracked / No tears	Pass
2	ANSI Z97.1-2004	0.254	48	Cracked / No tears	Pass
3	ANSI Z97.1-2004	0.256	48	Cracked / No tears	Pass
4	ANSI Z97.1-2004	0.257	48	Cracked / No tears	Pass
5	CPSC 16 CFR 1201 <sup>(2)</sup>	0.259	48	Cracked / No tears	Pass

<sup>1</sup> Acceptance Criteria: No shear or opening through which a 3" sphere can freely pass.

<sup>2</sup> Effective July 1997

**Conclusion:** Meets the requirements of the referenced standards.

For ARCHITECTURAL TESTING:

Kenny C. White  
Laboratory Manager

Scott T. Swaltek, P.E.  
Senior Project Engineer

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### Revision Log

<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
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