

Technical Interpretation TI-14.09.003

Document: **ANSI Z97.1-2009**
Referenced Section(s): Section 4.4

Date: September 30, 2014

Interpretation Request: (What needs clarification/modification/removal?)

How does the standard deal with laminated glass (which can be asymmetric in thickness and type) in insulating glass units where only one side of the laminate is exposed to the potential of impact when installed?

Request Rationale:

Asymmetric laminated structures (asymmetric in both thickness and glass type - e.g. HS, temp, are now more common, and are used commonly in insulating glass unit constructions. For asymmetric laminates used in insulating glass units, only one side of the laminate is exposed to potential direct impact. For this reason, it seems that impacting only one side of the laminate - the side that is exposed to impact during use - should be required and a modification to the standard.

Suggested Revised Language:

I suggest adding the following language to section 4.4:

When the asymmetric laminate is intended for use in an insulating glass unit, only the exposed side of the specimen shall be impacted.

Interpretation:

Document clearly states that asymmetrical units as tested for compliance to this standard must be impacted from both sides.

Rationale:

The standard is a test method and specification for safety glazing material and is silent on the use of products in insulating glass units. As such, the standard does not have any governance on the installation of products, their orientation or their impact location. The requirement for products to be impacted from both sides when asymmetrical has been part of the standard practice since 1966 and needs to continue as a test method.

Keywords: Compliance, asymmetrical, impact, insulating unit

Date of rendered interpretation: October 2, 2014