

ASC Z97 ANSI ACCREDITED STANDARDS COMMITTEE

Safety Requirements for Architectural Glazing Materials

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Technical Interpretation TI-2016.0624.002

Document: **ANSI Z97.1-2015**
Referenced Section(s): Section 4.4

Date: May 27, 2016

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

Background: I am currently testing a proprietary film intended for application onto the surface of **a mirror within restrooms**. The reflective film protects the glass surface from vandalism/damage and can be removed and replaced. This film will be applied to an annealed glass lite and tested in accordance with ANSI Z97.1-2015. After application to a mirror, the glazing would be considered asymmetric. Section 4.4 provides special considerations for some asymmetric materials.

Referenced Section/Paragraph: Per section 4.4 (Specimens for Impact Tests), paragraph 3, mirror glazing "...shall be impacted only on the non-reinforced side and with no other material applied". The intent of the cited section is to limit the impact tests to the side of the mirror glazing at risk to impact as mirror products are generally placed against a wall or rigid backing, thereby limiting the possibility of impact to the exposed non-reinforced side. For the product that we will be testing, the risk of impact is also limited to the one side but the application of the applied film to the "impact side" creates a slight conflict with the verbiage in the cited text.

Edition
ANSI Z97.1 – 2015

Question

If a product's intended use and/or orientation limits the risk of human impact to one side, can the impact testing be isolated to the side at risk of human impact? Assuming the material passes all the other requirements, the test report would include text such as "...the results were orientation specific, installation in any other orientation other than the orientation that in which the product was tested may have unintended consequences such as potentially hazardous changes in performance."

Request Rationale:
See above

Suggested Revised Language:
None provided

Interpretation:

- a.) Any material that is intended to be removed from a glazing, therefore leaving the remaining portions of the tested product vulnerable to human impact cannot be considered compliant to ANSI Z97.1-2015 as a safety glazing.

Rationale:

Mirror glazing that is continually supported by a solid support is to be impacted on the side at risk for human impact. Materials such as this shall be marked “glaze this side out” labels and all test reports shall have the following: “Results are orientation specific, installation in any other orientation other than that which the product was tested are not deemed to comply.”

Keywords: Compliance, Impact, Rating, mirror glazing

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