



284

REPORT INTERTEK TESTING SERVICES

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ANSI Z97.1 IMPACT & EXPOSURE TESTING OF 1/4-INCH GLASS-GARD 700 C90PS SCR FILM COATED GLAZING MATERIAL

RENDERED TO

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General

This report presents the test methods and results of tests performed on 1/4-inch Glass-Gard 700 C90PS SCR film coated architectural glazing materials. The tests were conducted in accordance with the American National Standard: Safety Performance Specifications and Methods of Test for Transparent Safety Glazing Materials Used in Buildings", ANSI Z97.1-1984.

Summary of Results

Impacts:	Compliance
Adhesion:	Compliance
Tensile:	Compliance

Test Sample Description

A total of four(4) 1/4-inch 34 x 76-inch specimens and six(6) 1/4-inch 2 x 6-inch samples were supplied by the client. It was noted by the client that the product was intended for interior usage only.

An independent organization testing for safety, performance, and certification.

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Test Procedure

Three 1/4-inch 2 x 6-inch specimens were placed into the twin carbon-arc lamp chamber specified in ASTM G23-93 for a period of 2000 hours in accordance with ASMT D1499-92A, with the exterior side towards the energy source. The other three specimens were identified as controls and were held in darkness at 73.4 degrees F \pm 3.5 degrees F and 50% \pm 2% relative humidity. Upon removal from the chamber, all specimens were kept @ the above controlled temperature and humidity prior to conducting the following tests.

Adhesion Test

The samples were then removed, and using a razor cutter; a straight, 1-inch wide strip of the organic coating was made in the lengthwise direction of the glass specimen along and within 1/4-inch of one edge. This material was then peeled back, cleanly and evenly about 2 inches of one end of the 1-inch wide organic strip. A strip of reinforced pressure sensitive tape was then attached to the side of the organic strip opposite the adhesive, to extend this free end of the glass panel about 8 inches. The glass panel was then placed into the lower clamp of the constant rate of extension, tensile tester and the free end of the tape in the upper clamp. The remainder of the organic strip was peeled from the glass mechanically by the tensile tester at a rate of 12 inches per minute and a record made of the pull force value.

Interpretation of Results

The organic coated glass adhesion shall be judged satisfactory if the average pull force of the weathered specimens is no less than 90 percent of the average pull force for the control specimens.

Results: The specimens complied with the requirements

	<u>1/4" Control Specimens</u>	<u>1/4" Test Specimens</u>
1	3.078	3.583
2	2.340	2.215
3	2.593	2.429
Avg.	2.670	102.7% of Control (2.742)

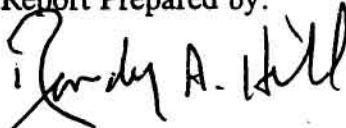
Tensile Test

The specimens used for this test were the same 2 x 6-inch specimens used in the adhesion test. Using the razor cutter, a straight strip was cut on the organic coating in the lengthwise direction of the glass specimen for the full 6-inch length. The strip was then carefully peeled from the glass panel and placed into the jaws of the tensile tester operating at a cross head speed of 2-inch per minute for performing the breaking test.

Conclusion

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