

HoloPro™ Test

A statics homologation test was conducted by a structural engineer on the use of the 100" HoloPro™ screen with frame. The specifications for the special steel frame we use are based on this test.

Tests were also carried out at the MPA in Darmstadt on the residual load-bearing capacity. Here, the 100" screen was first of all broken in three places and its residual load-bearing capacity tested at an angle of 15° over a period of 48 hours. The screen was then jacked up into a horizontal position and broken in six more places on the other side. Here, too, the residual load-bearing capacity was tested using appropriate additional loads over a further period of 48 hours. Additional experiments were performed involving the dropping of 4.1 kg steel balls onto the screen from heights of three and five metres and the repeated testing of the residual load-bearing capacity. At the end of 48 hours, the test was discontinued as the screen had remained in one piece.

These tests were also successfully performed on another test object. The durability of HoloPro™ is therefore identical to that of laminated safety glass.

The UV stability of the glass was tested at the glass plant (5,000-hour test equivalent to 10 years of outdoor use) and checked at the MPA in Dortmund. Holographic light-steering elements have been in use out of doors in all weathers for over eight years without suffering any damage.

Following verification of the homologation statics and the successful experiment on residual load-bearing capacity, there is now nothing to stand in the way of HoloPro™ being used as overhead glazing.



Bergisch Gladbach, October 2002