
Determination of projection ratio of solar laminated glass

Does solar radiation affect the behavior of laminated glass with PVB interlayer?

In this paper the consequences of solar radiation on the behavior of laminated glass with PVB interlayer are experimentally evaluated. The experimental campaign reported is based on the repetition of four point bending tests in creep condition, on laminated glass beams while subjected to increasing exposition time to artificial solar radiation.

How does UV radiation affect laminated glass?

Based on previous research [11],the influence of UV radiation produced by the direct exposition to sunlight has been identified as the main cause of degradation of laminated glass to weathering,also in consideration of the exposition time that some glass structures can experience through their life.

How to produce laminated glass?

There are two main methods of producing laminated glass,namely,the dry method and the wet method. And then,three impact tests and two main simulation analysis of laminated glass are introduced. The three impact tests are the drop weight test,Charpy impact test,and Izod impact test respectively.

Does Exposition time affect mechanical properties of laminated glass?

In order to evaluate the evolution of the consequences of exposition time on the mechanical properties of laminated glass, it was decided to use four point bending tests in which the specimens, exposed to UV radiation, were tested in creep several times while the exposition time grew.

A review on the main hypothesis for the optical and energy modeling of multilayer systems will be presented, in particular regarding the null reflectivity of glass-film interfaces in ...

In particular, solar radiation seems to produce the strongest effects on the bulk properties of PVB, modifying the coupling capability of laminated glass plates exposed to the direct sunlight.

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oSIST prEN 410:2025 - This document specifies methods of determining the luminous and solar characteristics of glazing in buildings. These characteristics can serve as a basis for lighting, ...

Applications may also require desirable properties such as sound reduction, fade resistance, and solar & thermal control. Laminated glazing materials (see Figure 1 and Figure ...

Laminated products: The Performance Calculator allows the user to model a wide variety of laminated glass makeups using different float glass substrates, coatings and ...

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