

Laminated safety and security glass

Meeting Your Aesthetics Needs

Description

Laminated safety and security glass is a comprises two or more sheets of glass bonded together with one or more interlayers of polyvinyl butyral (PVB) film.

Laminated safety and security glass incorporates a single PVB sheet with a nominal thickness of 0.38mm, distinguishing it from Orient laminated glass which has a minimum thickness of 0.76mm. Laminated glasses with different levels of safety and security can be obtained by varying the number and/or thickness of each of the components.

If the glass breaks, the fragments of glass are held in place by the PVB interlayer(s). In fully framed installations the broken glass retains residual strength while awaiting replacement.

Applications

Protection against injury

If the glass breaks, the fragments of glass remain bonded to the interlayer. This safety feature. Which is often mandatory (for example: in public buildings, schools, crèches, etc), is also ideal for residential buildings, where it protects the occupants.

The use of glass in roofs must meet safety, enhanced thermal insulation and solar protection requirements. Safety is ensured by the use of a laminated safety or a security glass (inner leaf of the overhead glazing). If an object onto the glazing, Orient Laminated glass may prevent the object from passing through the glass and also minimizes the risk of fragments falling the space below.

Depending on the compositions, Orient laminated safety glass security glass ensures that structures conform to regulatory requirements for overhead glazing.

Guarding and balustrading

Orient safety Laminated glass has:

- Residual stability in the event of breakage
- Retention of the object which caused the glass to break (depending on the required safety and security level) providing that it is accurately sized, installed, supported adequately and that it complies with current regulation sand requirements(BS EN12600)



The main areas in which laminated safety and security glass is used are