

Strength

Entirely dependent on overall substance and make up as PVB laminated glass is designed to meet specific criteria. However, it should be noted that under 'loading' conditions the behaviour of PVB laminated glass is similar to monolithic glass of the same overall substance.

Manufacturing Tolerances

Thickness and dimensional tolerances and edgework finishes are in accordance with the specifications contained in BS EN 12543 Part 5.

Optical/Visual Quality

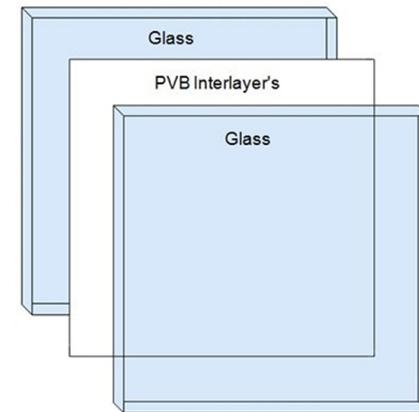
The multi component nature of laminated glass will inevitably result in a product whose optical quality is not as high as that of the glass from which it is produced.

Thermal Behaviour

PVB laminated glass is not recommended for applications in service temperatures above 70°C or below -20°C. For applications above 35°C or below 0°C please contact our office.

Laminated Glass

Laminated glass consists of two or more panes of glass permanently bonded together with an interlayer of PVB (polyvinylbutyral) between each pane. The glass and interlayers can be a variety of colours and thicknesses designed to meet relevant building code standards and requirements as necessary. Laminated glass is considered 'safety glass' because it meets the requirements of the various European Building Regulations and standards. Heat strengthened toughened glass can be incorporated into laminated glass units to further strengthen the impact resistance. Bomb blast protection, the need for sound attenuation and ballistic or security concerns are all uses for laminated glass.



Acoustic Behaviour

PBV laminated glass has a higher sound reduction index than monolithic glass of the same overall thickness. It is also possible by the use of differing thicknesses of glass and PVB, to construct a laminated glass to overcome specific sound reduction problems.

Solar Control & UV Protection

Laminated glass can be manufactured to provide solar control characteristics. It is achieved by the use of tinted PVB interlayer and/or tinted or coated glass in the construction. PVB laminated glass eliminates the vast majority of UV radiation below 380 nm.

Breakage Characteristics

In general on impact PVB laminated glass resists penetration and the glass adheres to the interlayer preventing dangerous fragments becoming separated after fracture. The penetration resistance and performance on impact of a laminated glass will be dependent on the standard to which it has been manufactured.

PLEASE NOTE: Nothing is to be bonded or affixed to the glass as this may cause cracking due to heat stress.