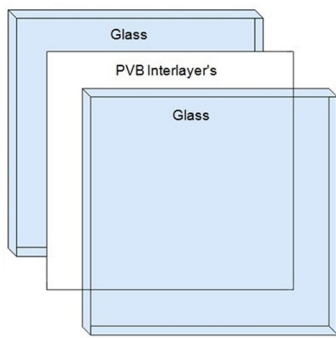


Ravensby Glass offers laminated glass, comprising of two or more panes of glass bonded together using clear PVB or EVA interlayers. By combining different combinations of glass thicknesses and number of interlayers, different performances can be achieved, ranging from safety, security to ballistic and blast resistant.

Our Laminated glass is manufactured in accordance with EN 14449 and tested in accordance with EN 356 and BS EN 12600 meeting an impact performance of up to class 1, to ensure that the glass can resist different levels of impact, creating a safe and secure barrier.



PRODUCT DESCRIPTION

The PVB interlayer absorbs up to 99.5% of ultra violet light, helping to reduce fading and ageing effects. When combined with different glass types and thicknesses, improved acoustic performance is achieved as the PVB interlayer helps to absorb sound energy, creating a more relaxing environment within the building. We also offer Low Iron and Low 'E' laminated glass.

SIZES AVAILABLE:

6.8MM, 8.4MM, 8.8MM, 10.8MM, 12.8MM

APPLICATIONS:

CURTAIN WALLING, WINDOWS, OVERHEAD GLAZING, PARTITIONS, BALUSTRADES, FLOORS, DOORS, FURNITURE, MUSEUMS AND ART GALLERIES

PROCESSING:

LAMINATED GLASS CAN BE CUT TO SIZE TO SUIT THE REQUIRED APPLICATIONS, PROCESSED IF NECESSARY AND MANUFACTURED INTO INSULATING GLAZED UNITS IN COMBINATION WITH OTHER GLASS TYPES

SECURITY

Laminated glass can be used in applications where resistance to manual attack is required. EN 365 is designed to provide a range of different classifications which relate to the level of threat or security required for various situations, essentially involving laminated glass products.

Total Glass Thickness (mm)	Laminate Configuration	Category of Resistance
6.8	33.2 PVB	P2A*
7.5	33.4 PVB	P4A*
8.8	44.2 PVB	P2A*
9.5	44.4 PVB	P4A*
10.8	55.2 PVB	P2A*
11.5	55.4 PVB	P4A*
12.8	66.2 PVB	P2A*
13.5	66.4 PVB	P4A*
16.8	44.2 PVB	P2A*

*Thicker float glass panes with the same type and number of interlayers are assumed to have similar performance and classification to those tested and certified.

CHARACTERISTICS

Strength

Strength is entirely dependent on the overall make up of the unit. Our laminated glass is designed to meet specific criteria of the project it will be used on. 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, dimensional tolerances and edgework finishes are in accordance with the specifications contained in BS EN 12543- 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's 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.

Acoustic Behaviour

PVB 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 interlayers, 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 interlayers and/or tinted or coating glass in the construction. PVB laminated glass eliminates the vast majority of UV radiation below 380nm.

Breakage Characteristics

In general on impact, PVB laminated glass resists penetration and the glass adheres to the interlayer which prevents dangerous fragments becoming separated after fracture. The penetration resistance and performance on impact of 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 damage due to heat stress.

