



Introduction

Laminated glass is constructed from two or more panels of glass, sandwiching an interlayer and bonding the glass together. Should the glass be broken the main function of the plastic interlayer is to retain the broken glass in situ. Typically, laminated glass is constructed using annealed glass which has not undergone any thermal heat treatment to increase its overall strength. Standard laminated glass is therefore just as susceptible to breakage as annealed glass.

To overcome the strength issue of laminated glass, suitable toughened flat glass can replace their annealed counterparts. The result is a product that has the strength of toughened glasses (approximately five times that of annealed) and the containment of laminated.

Types of Laminates

Depending upon the number of glass panels, the type and number of interlayer sheets used, the end product can benefit from properties such as :-

Security • Solar control • Acoustic • UV protection
Privacy • Decoration

Any combination of the above types may be incorporated in the laminated glass to achieve a multi function laminate.

Added protection of decorated glass can be achieved by placing the decorated glass surface against the interlayer. Most silk screen printing inks can be processed in this manner. Some solar control coatings can also be laminated to the interlayer. Kite Glass will be pleased to advise.

Types of Interlayer

PVB Interlayer

Production of laminated glass has historically used PVB (Polyvinyl Butyral). The interlayer in sheet form is placed between glass panels, air is evacuated from the laminate and then subjected to heat and compression in a pressure vessel known as an Autoclave.

'Cast in Place' Resin Interlayer

The cast in place method of laminating involves placing spacers between the panels of glass that are due to be laminated, a tape is then fixed around the edges of the panels to ensure that the resin stays in place. The interlayer is injected into the cavity and allowed to cure. Cast in place does not require the use of an autoclave.

Kite Glass currently offers both types of interlayer in laminated and laminated toughened glasses.



Kite Glass

29 Avro Way, Brooklands Business Park, Weybridge, Surrey, KT13 OYZ

Tel: 01932 336080 Fax: 01932 347080

Email: sales@kiteglass.co.uk

www.kiteglass.co.uk