

## LAMINATED GLASS

# LamiGlass

### Safety and Security performance

- **Break safe characteristics**
- **Resists attack**
- **UV protection**
- **Improved acoustic performance**

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

Guardian LamiGlass 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

All lamiGlass is tested in accordance with European standards, to ensure that the glass can resist different levels of impact, creating a safe and secure barrier. 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. Guardian LamiGlass may be supplied in coated forms, using Guardian SunGuard and ClimaGuard ranges.



## APPLICATIONS

LamiGlass is used in many applications such as, curtain walling, windows, overhead glazing, partitions, balustrades, floors, doors, furniture, interior fittings, aquaria, museums & art galleries where UV protection is necessary or areas where improved acoustic performance is a requirement.

## PROCESSING

Laminated glass can be cut to size to suit the required applications, processed if necessary, and manufactured into insulating glass units with other Guardian products.

## SECURITY

Guardian LamiGlass can be used in applications where resistance to manual attack is required. EN 356 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. For laminated constructions not covered in this table, please contact Guardian Technical Support by visiting [www.guardianglass.co.uk](http://www.guardianglass.co.uk)

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
10.3	44.6 PVB	P5A
10.8	55.2 PVB	P2A*
11.5	55.4 PVB	P4A*
12.8	66.2 PVB	P2A*
13.5	66.4 PVB	P4A*

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

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