



**CAMDEN
GLASS**

Camden Security - Laminated



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Performance

Glass thickness(mm)	Classification
6.4 8.4	Class B
6.8,7.5,8.8,9.5,10.8,11.5,12.8,13.5	Class A

Resistance to Manual Attack

Category of Resistance	Drop Height (mm)	Total number of strikes	Code designation of resistance class
P1A	1500	3 in a triangle	BS EN 356 P1A
P2A	3000	3 in a triangle	BS EN 356 P2A
P3A	6000	3 in a triangle	BS EN 356 P3A
P4A	9000	3 in a triangle	BS EN 356 P4A
P5A	9000	3 x 3 in a triangle	BS EN 356 P5A
P6B	N/A	From 30 to 50	BS EN 356 P6B
P7B	N/A	From 51 to 70	BS EN 356 P7B
P7B	N/A	More than 70	BS EN 356 P8B

Sound Insulation Data

Sound insulation data for Laminated and Laminated Phon		
Glass Type		RW (C;C)
6mm	Laminated Clear	31 (-2; -3)
6.4mm	Laminated	32 (-1; -3)
8.8mm	Laminated	33 (-1; -3)
10.8mm	Laminated	34 (-1; -3)
6.8mm	Laminated Phon	35 (-1; -3)
8.8mm	Laminated Phon	37 (-1; -4)
10.8mm	Laminated Phon	38 (-1; -2)
12.8mm	Laminated Phon	39 (-0; -2)
16.8mm	Laminated Phon	40 (0; -2)

Description

Laminated glass is manufactured by combining two or more panes of glass with one or more polyvinylbutyral (PVB) interlayers, applied with heat and pressure in factory controlled conditions. The interlayers ensure the integrity of the glass by holding the broken pieces in place should damage occur.

Applications

Laminated can be used in applications where it is subject to accidental human impact or where resistance to manual attack is required for security reasons.

Laminated glass reduces the level of noise with greater efficiency than ordinary glass of the same thickness and for greater performance Laminated Phon is available.

Advantages

- Laminated is designed to remain intact or to break safely in such a way as to reduce injury. Glass fragments adhere strongly to the interlayer - with resistant cushioning effect dissipating the energy.
- Fully tested
- Complies with the requirements of national regulations and standards
- Up to Class A impact safety performance to BS 6206: 1981
- Can be incorporated into insulated sealed units in combination with many other products in our range
- Provides optimum protection of people and property
- Used for a wide variety of applications, particularly beneficial for overhead glazing, full height barriers, shop fronts, doors and low level glazing.

Glazing

When using laminated the following points should be noted:

- Linseed oil based or metal casement putty should not be used
- Water or other liquids should not be in prolonged contact with the edges
- Edges should not be exposed to cleaners or solvents
- For maximum security, adequate and full support must be provided by an appropriately designed frame.

Laminated absorbs UV radiation (UVB and UVA). This can affect the colour of objects exposed to it and as Laminated glass has a very low transmission, this may help to protect materials prone to fading when subject to prolonged exposure.

Laminated glass can be supplied incorporating a low emissivity glass to ensure optimum thermal comfort.



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