

Laminated Safety Glass

Two or more plies bonded with an interlayer — fragments adhere when broken

Overview

Laminated glass stays intact after breakage — fragments adhere to the interlayer, maintaining a residual barrier. This is why it is mandatory for overhead glazing (inner pane), balustrades, walk-on glass, and any barrier function. A DuPont SentryGlas (SGP) ionoplast interlayer is significantly stronger and stiffer than standard PVB for structural applications.

Interlayer Comparison

Interlayer	Material	Thickness	UV Block	Key Use
Standard PVB	Polyvinyl butyral	0.38-1.52mm	99%	Doors, windows, safety
Acoustic PVB	Modified PVB	0.76-1.52mm	99%	Roads, railways (+3-5 dB)
SentryGlas SGP	Ionoplast	0.89-2.28mm	99%	Walk-on, balustrades, structural
EVA	Ethylene vinyl acetate	0.38mm+	95%	Wet areas, decorative

Common Configurations

Designation	Makeup	Thickness	Weight/m ²	Rw (dB)
6.4mm Lam	3+0.38+3	6.4mm	16 kg	30
6.8mm Lam	3+0.76+3	6.8mm	16 kg	33
8.8mm Lam	4+0.76+4	8.8mm	21 kg	34
10.8mm Lam	5+0.76+5	10.8mm	26 kg	35
13.5mm Lam	6+1.52+6	13.5mm	31 kg	37
17.5mm Lam	8+1.52+8	17.5mm	41 kg	39

Laminated vs Toughened — When to Use

Application	Laminated	Toughened	Recommendation
Overhead / roof	Mandatory (inner)	Outer pane	Lam inner + tough outer
Balustrades	Mandatory	Not acceptable alone	Toughened laminated
Walk-on floors	Mandatory	Sacrificial ply	T+T+Lam multi-ply
Security	Excellent	Shatters, allows entry	Laminated for security

How to Order

Contact our sales team: 020 8574 9342 | 07305 993794 | sales@csultd.co.uk | csultd.co.uk — quotes returned within 2 business hours (Mon-Fri, 8am-5pm).