

Acoustic Glass

Specialist noise reduction glazing — 29 to 50+ dB Rw

Overview

Acoustic glass optimises three sound insulation principles: Mass (heavier glass blocks more sound), Damping (acoustic PVB interlayer absorbs vibration energy), and Decoupling (gas-filled cavity prevents direct vibration transfer). Asymmetric glass thicknesses prevent both panes resonating at the same frequency.

Performance Range

Configuration	Rw (dB)	Thickness	Weight/m ²	Environment
4-16-4 Standard DGU	29	24mm	20 kg	Quiet residential
6-16-4 Asymmetric	32	26mm	25 kg	Light traffic
6.8L Acoustic-16-4	36	26.8mm	26 kg	Busy roads
6.8L Acoustic-16-6	38	28.8mm	31 kg	Urban
10.8L Acoustic-20-6	42	36.8mm	36 kg	Major roads
12.8L-20-10.8L Dual	48	43.6mm	46 kg	Motorway
TGU Acoustic	50+	48-52mm	50+ kg	Airports

Understanding Decibels

Reduction	Perceived	Real-World
10 dB	Half as loud	Busy street → quiet road
20 dB	Quarter as loud	Main road → quiet office
30 dB	Eighth as loud	Heavy traffic → whisper

Upgrading from 29 dB (standard) to 42 dB (acoustic) makes noise sound approximately 90% quieter.

Brand Products

Brand	Product	Type	Max Rw
Pilkington	Optiphon™	Acoustic laminated	~45 dB
Saint-Gobain	Stadip® Silence	Acoustic laminated	~47 dB
Pilkington	Activ Optiphon™	Self-clean + acoustic	~42 dB

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).