



WHISPER™ ACOUSTIC LAMINATE

Whisper™ provides acoustic insulation for glass installed in high noise residential and commercial applications.

Regular monolithic glass, toughened or float, provides some acoustic insulation against noise, however it suffers from a 'coincidence dip' at higher frequencies. This dip causes the glass to vibrate at the same frequency as the noise, transmitting the noise through the glass. Our ears are more sensitive to these higher frequencies and as such we perceive them to be far more intrusive than lower frequencies.

Whisper™ Acoustic Insulation reduces noise by using a unique acoustic PVB (Polyvinyl Butyral) interlayer, which incorporates a dampening core between the two panes of glass. This core acts to prevent vibration and eliminate the coincidence dip.

It is strongly recommended that Whisper is installed with framing configurations designed to reduce air leakage, as air leakage will significantly effect the acoustic performance of the glass.



FEATURES

- Acoustic PVB Interlayer Technology
- Grade A safety glass
- Combine with tinted interlayers
- Compatible with Low-E and performance glass

APPLICATIONS

Offices, Airports, Apartments, Hotels, Hospitals, High Security Institutions

MAXIMUM SIZE

5100mm x 2600mm

THICKNESS

6.76mm or 24.76mm

GLASS TYPES

Clear Tinted Low Iron Low E



LAMINATED

Thickness	Rw	C	Ctr
6.76	36	-1	-3
8.76	37	-1	-3
10.76	38	-1	-3
12.76	39	-1	-3
16.76	41	-1	-3
20.76	43	-1	-3
24.76	44	-1	-3

Weighted Sound Reduction Index, Rw (previously STC) is a rating system for the amount of sound that is blocked by the glass.

Two adjustment factors, C and Ctr, are created when finding the Rw value. These adjustment factors are used to account for different types of low frequency noise.

DOUBLE GLAZE UNITS

Makeup	Rw	C	Ctr
3+12+6.76	38	-1	-5
3+12+8.76	38	-1	-5
6+12+6.76	41	-2	-5
6+12+8.76	41	-1	-5
6+12+10.76	42	-2	-5
8+12+6.76	42	-1	-4
8+12+8.76	44	-1	-4

6.76+12+6.76	38	-1	-5
12.76+12+16.76	38	-1	-5
12.76+20+8.76	41	-2	-5
14.76+20(Ar90)+10.76	41	-1	-5

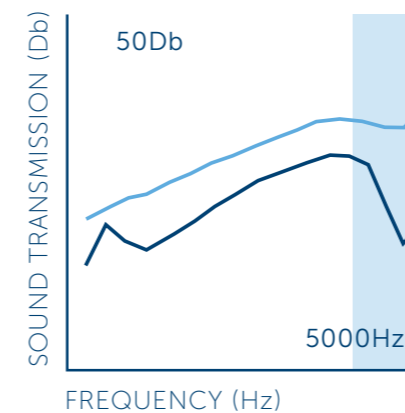
WHICH WHISPER SOLUTION BEST SUITS YOUR ENVIRONMENT?

Isolating noise problems to be targeted with acoustic glazing remains difficult. The process of designing for noise reduction requires measuring the intensity and nature of the target sound, as well as measuring the internal sound level of a building in order to achieve a desired decibel reduction. As this may not always be possible, the chart below provides a guide towards which whisper thickness is suitable for a range of common applications.

The Coincidence Dip

6.76MM WHISPER

4MM FLOAT GLASS



Use this chart to find your environment's optimum level of noise insulation.

Application	External Noise Source (Db)		
	65 (low)	75 (med)	85 (high)
Office	6mm Float	6.76mm Whisper	6.76mm Whisper
Living Room	6.76mm Whisper	6.76mm Whisper	10.76mm Whisper
Bedroom	6.76mm Whisper	10.76mm Whisper	10.76mm Whisper

For high level external noise situations, Whisper should be combined in a DGU with a differing glass thickness to achieve high level reduction.

HOW TO SPECIFY



SELECT PRODUCT

Cooling Brothers Whisper



SELECT THICKNESS

6.76 to 24.76mm Laminate



SELECT GLASS

Clear, Tinted, Low Iron



Custom Laminate

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