

Data Sheet

Noise-Lock® W-50 Acoustic Window

IAC Acoustics
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Overview

- Certified acoustic performance rating
- Manufactured to standard and custom sizes
- Rugged all steel construction
- Finished in polyester powder coating as standard

Standard Features



Acoustic
Rated

Optional Extras



Fire
Rated



Bullet
Resistance



Angled
Panels

Acoustic Rating

Rw (C; Ctr) 50 (-2; -6) dB to achieve minimum R'w48dB once installed (subject to flanking).

STC-50(dB) to achieve minimum NIC 48 once installed (subject to flanking).

Certified laboratory performance using standard 150mm (6") wall thickness arrangement as follows:

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Full Octave Sound Transmission Loss (dB)	18	32	38	48	55	56	62	-

Overview

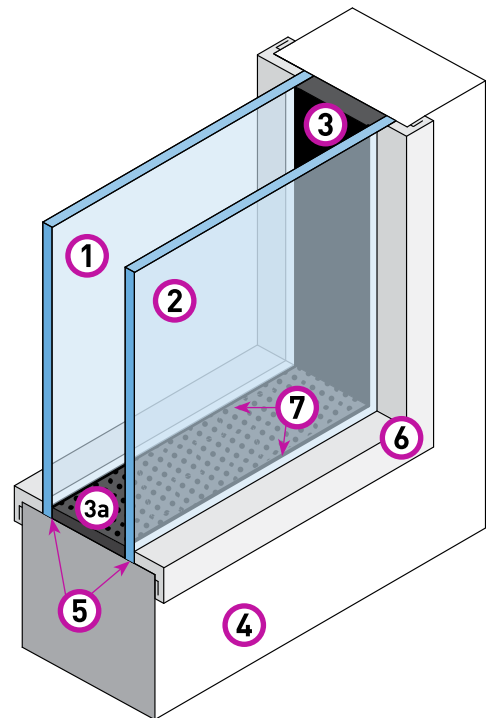
IAC Acoustics produces an engineered system — custom-designed in house to suit the required opening of any given project. Utilising precision laser cutting and state-of-the-art fabrication, all IAC Noise-Lock® windows are simple to assemble on site by our network of highly experienced installation crews.

IAC Noise-Lock® windows are laboratory tested for performance in both IAC's own R&D facilities and independent laboratories, further supported by installed site testing. IAC Acoustics is renowned for quality, durability and guarantees in-field performance.

Design Features

IAC Noise-Lock® windows are available with a number of standard and custom design options. Please consult IAC Acoustics for availability of both standard and bespoke features such as angled panes, bullet resistant glass and EN 16 34-1 (EI) fire rated frames in various ratings from E30 to EI90. All IAC Noise-Lock® windows are built to order and site assembled using laminated safety glass as standard.

- ① 6.4mm laminated safety glass
- ② 6.4mm laminated safety glass
- ③ Acoustic foam ③a Optional perforated reveal
- ④ Host wall
- ⑤ Neoprene acoustic seal
- ⑥ Painted steel capping frame
- ⑦ Acoustic foam retainer



The relationship between the clear view and structural openings for both width and height is the same for all sizes of IAC Noise-Lock® W-50 windows. Measurements to consider can be seen in the table below.

	width	height
Structural Opening	X	Y
Clear View*	X - 66mm	Y - 66mm

* Clear view will decrease for fire rated frames, contact IAC Acoustics for details

Performance Features

- Acoustically de-coupled high performance steel acoustic window
- Architecturally aesthetic steel capping frame with secret fixings as standard
- Custom-built to order with various options for:
 - angled panes
 - fire resistance
 - bullet resistance

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