Data Sheet Noise-Lock® W-53 Acoustic Window

IAC Acoustics IAC House, Moorside Road, Winchester Hampshire, SO23 7US, United Kingdom T: +44 (0) 1962 873 000 www.iac-noisecontrol.com



Overview

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

Acoustic Rating

Rw (C; Ctr) 53 (-2; -7) dB to achieve minimum R'w51dB once installed (subject to flanking). STC-54(dB) to achieve minimum NIC 52 once installed (subject to flanking). Calculated performance using standard 200mm (8") wall thickness arrangement as follows:

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
Full Octave Sound Transmission Loss (dB)	20	33	40	51	59	61	69	-



Standard Features



Optional Extras







making the world a quieter place

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.

8.8mm laminated safety glass
6.4mm laminated safety glass
Acoustic foam 3 Optional perforated reveal
Host wall
Neoprene acoustic seal
Painted steel capping frame
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-53 windows. Measurements to consider can be seen in the table below.

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

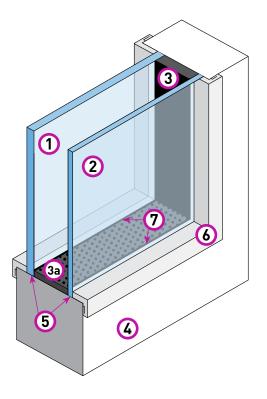
* Clear view will decrease for fire rated frames, contact IAC Acoustics for details

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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