

# Data Sheet

## Noise-Lock® W-53 Acoustic Window

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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

R<sub>w</sub> (C; C<sub>tr</sub>) 53 (-2; -7) dB to achieve minimum R'<sub>w</sub>51dB 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	-

## Overview

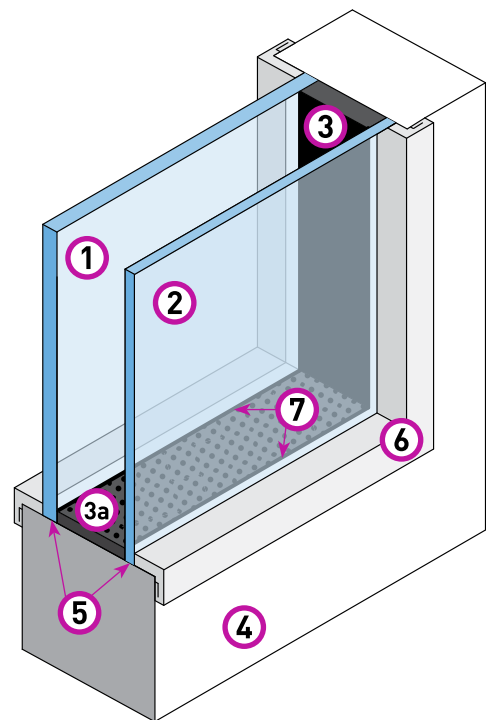
IAC Acoustics produces an engineered system — custom-designed in house to suit the required opening of any given project. Utilising precision laser cutting and state-of-the-art fabrication, all IAC Noise-Lock® windows are simple to assemble on site by our network of highly experienced installation crews.

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 8.8mm 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-53 windows. Measurements to consider can be seen in the table below.

	width	height
Structural Opening	<b>X</b>	<b>Y</b>
Clear View*	<b>X - 66mm</b>	<b>Y - 66mm</b>

\* 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