

# Data Sheet

## Noise-Lock® W-47 Acoustic Window

**IAC Acoustics**  
 IAC House, Electron Way, Chandlers Ford  
 Hampshire, SO53 4SE, United Kingdom  
 T: +44 (0) 1962 873 000  
[www.iacacoustics.global](http://www.iacacoustics.global)



### 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) 47 (-2; -7) dB to achieve minimum R'w45dB once installed (subject to flanking).

STC-46(dB) to achieve minimum NIC 44 once installed (subject to flanking).

Certified laboratory performance using standard 100mm (4") wall thickness arrangement as follows:

Frequency (Hz)	63	125	250	500	1k	2k	4k	8k
<b>Full Octave Sound Transmission Loss (dB)</b>	<b>20</b>	<b>28</b>	<b>34</b>	<b>44</b>	<b>52</b>	<b>54</b>	<b>63</b>	<b>-</b>

#### Standard Features



Acoustic  
Rated

#### Optional Extras



Fire  
Rated



Bullet  
Resistance



Angled  
Panels

## Overview

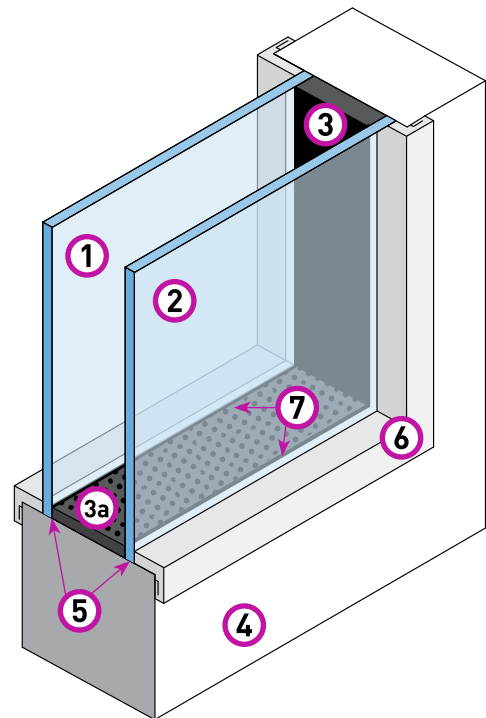
IAC Acoustics produces an engineered system — custom-designed in house to suit the required opening of any given project. Utilising precision laser cutting and state-of-the-art fabrication, all IAC Noise-Lock® windows are simple to assemble on site by our network of highly experienced installation crews.

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-47 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

## IAC Acoustics

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