

# Data Sheet

## Noise-Lock®+ W-450 Acoustic Window

**IAC Acoustics**  
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[www.iac-acoustics.com](http://www.iac-acoustics.com)



### Overview

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

### Acoustic Rating

STC-64(dB) to achieve minimum NIC 62 once installed (subject to flanking).

Rw [C; Ctr] 66 [-2; -6] dB to achieve minimum R'w64dB once installed (subject to flanking).

Certified Laboratory performance using standard 450mm wall thickness arrangement as follows:

Frequency	63	125	250	500	1k	2k	4k	8k	Hz
Noise-Lock®+ W-450	43	54	63	68	72	75	68	-	dB

#### 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 Noise-Lock® windows are simple to assemble on site by our network of highly experienced installation crews.

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.

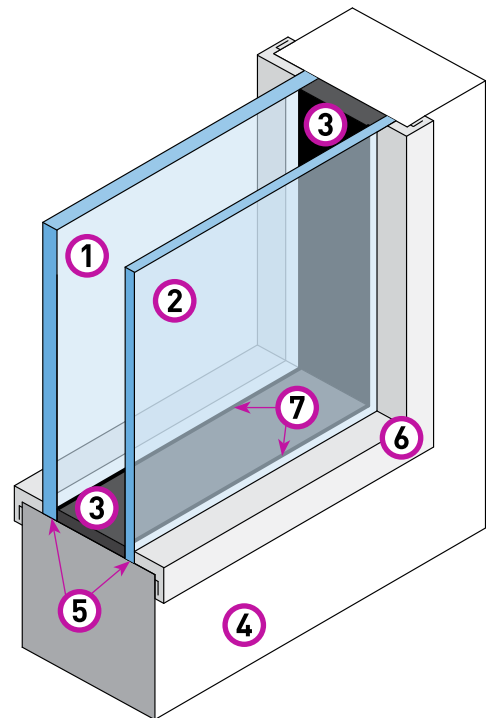
## Design Features

IAC Acoustics 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 specifications. All IAC Noise-Lock® windows are built to order and site assembled using laminated safety glass as standard.

- ① 20.8mm laminated safety glass
- ② 16.8mm laminated safety glass
- ③ Acoustic foam
- 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 Noise-Lock®+ W-450 windows. Measurements to consider can be seen in the table below.

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



## 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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