

Data Sheet

Noise-Lock®+ W-250 Acoustic Window

IAC Acoustics

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Overview

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

Standard Features



Acoustic
Rated

Optional Extras



Fire
Rated



Bullet
Resistance



Angled
Panels

Acoustic Rating

STC-62(dB) to achieve minimum NIC 60 once installed (subject to flanking).

Rw [C; Ctr] 62 [-3; -8] dB to achieve minimum R'w60dB once installed (subject to flanking).

Calculated performance using standard 350mm wall thickness arrangement as follows:

| Frequency | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k | Hz |
|--------------------|----|-----|-----|-----|----|----|----|----|----|
| Noise-Lock®+ W-250 | 39 | 47 | 57 | 67 | 73 | 78 | 89 | - | dB |

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.

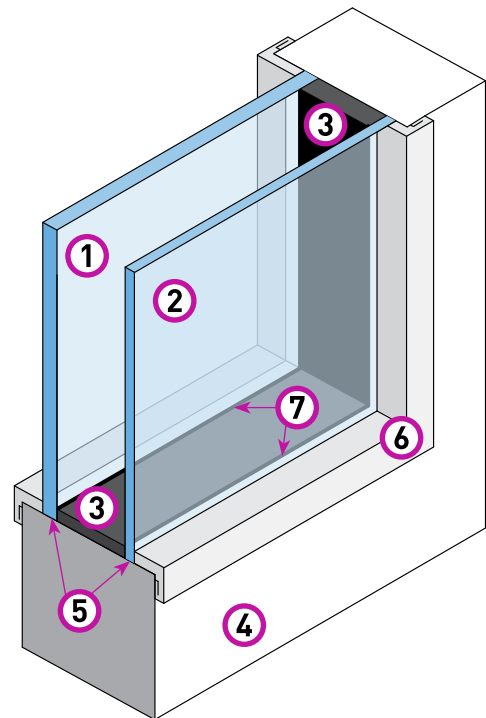
Design Features

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 (E1) 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 12.8mm laminated safety glass
- ② 10.8mm 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-250 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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