

Data Sheet

Noise-Lock® W-55 Acoustic Window

IAC Acoustics A/S
 T: +45 36 77 88 00
 E: mail@iac-nordic.dk
 www.iac-nordic.dk



Overview

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

Acoustic Rating

R_w (C; C_{tr}) 55 (-2; -8) dB to achieve minimum R'_w53dB once installed (subject to flanking).

STC-55(dB) to achieve minimum NIC 53 once installed (subject to flanking).

Calculated performance using standard 300mm (12") wall thickness arrangement as follows:

| Frequency (Hz) | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
|-------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|
| Full Octave Sound Transmission Loss (dB) | 22 | 34 | 42 | 53 | 61 | 64 | 73 | - |

Standard Features



Acoustic
Rated

Optional Extras



Fire
Rated



Bullet
Resistance



Angled
Panels

Overview

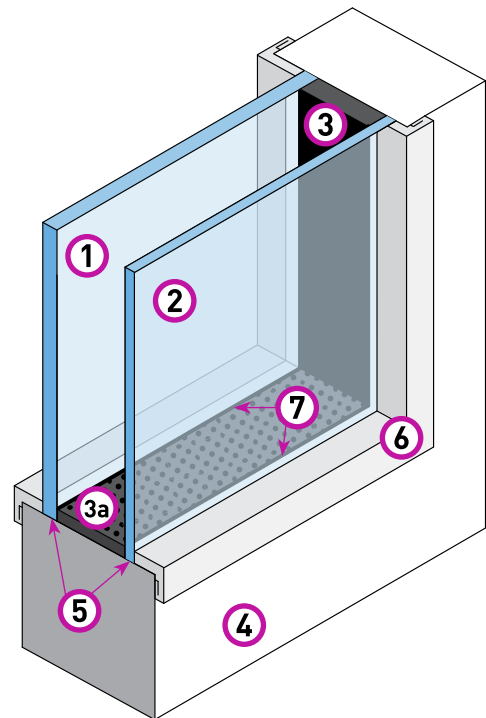
IAC Acoustics produces an engineered system — custom-designed in house to suit the required opening of any given project. Utilising precision laser cutting and state-of-the-art fabrication, all IAC Noise-Lock® windows are simple to assemble on site by our network of highly experienced installation crews.

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 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-55 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