



Noise-Lock® STC 43 Steel Acoustic Door

DATASHEET

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Data Sheet

Noise-Lock® STC 43 Steel Acoustic Door



Overview

- Certified performance rating
- Manufactured to standard and custom sizes
- Available as single leaf or double door sets with glazing options
- Cam-lift hinges used to maximize acoustic seal
- Rugged steel construction
- Factory assembled with all hardware to ensure proper fit, finish & function in the field
- Finished in polyester powder coating as standard
- Wood veneer and powder coat finish options available
- Door leaf is 1 3/4" thick

Acoustic Rating

STC 43 (dB) to achieve minimum NIC 38 once installed (subject to flanking).

Rw (C; Ctr) 42 (-3 ; -9) dB to achieve minimum R'w 37 dB once installed (subject to flanking). Certified laboratory performance in single leaf arrangement as follows:

| Frequency (Hz) | 63 | 80 | 100 | 125 | 160 | 200 | 250 | 315 | 400 | 500 | 630 | 800 | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 |
|-------------------|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|
| Noise-Lock® STC43 | 20 | 12 | 23 | 33 | 34 | 37 | 38 | 38 | 39 | 40 | 41 | 40 | 42 | 46 | 48 | 46 | 45 | 45 | 45 |

Standard Features



Acoustic Rated



Easy Access
Flat Thresholds



Overview

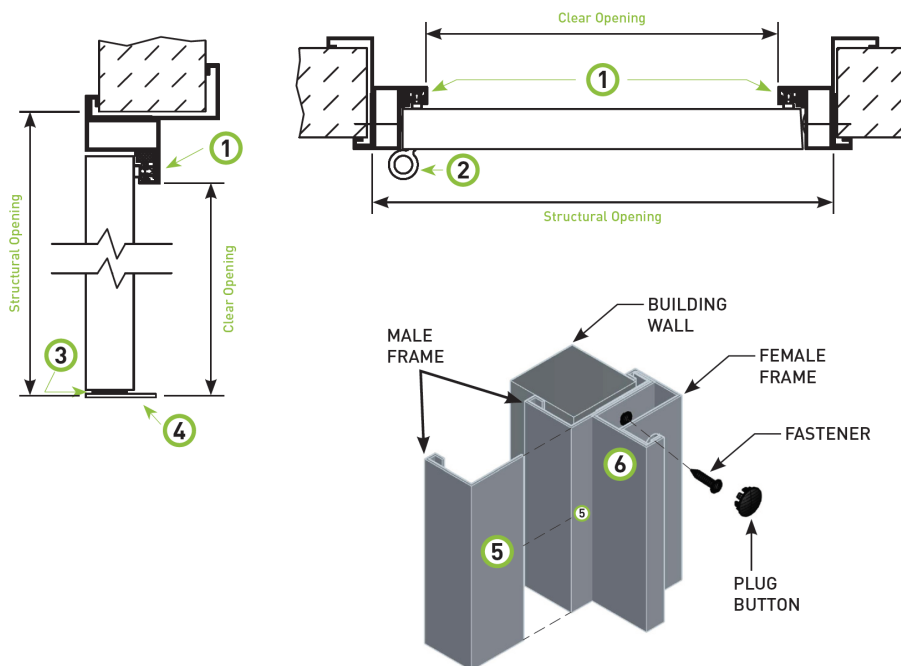
IAC Acoustics produces an engineered system — fully factory assembled complete with a leaf, architectural split-frame, acoustic seals, cam-lift hinges and hardware. All doors are pre-hung for operational alignment, fit and finish before shipping.

Noise-Lock® doors are laboratory-tested for performance in independent laboratories, further supported by installed site testing. IAC Acoustics is renowned for quality, durability and guarantees in-field performance.

Hardware

IAC Acoustics Noise-Lock® doors are available with a number of standard and custom hardware options. Please contact your local IAC Acoustics office for further details.

- ① Acoustic Seal
- ② Cam-lift Hinge
- ③ Boot Seal
- ④ Sill
- ⑤ Male Frame
- ⑥ Main Frame / Female Frame



The relationship between the clear and structural openings for both width and height is the same for all sizes of Noise-Lock® STC 43 doors. An example for a 3' x 7' door can be found in the table below:

| Door Opening | Width (X) | Height (Y) |
|--------------------------|-----------|------------|
| Structural/Rough Opening | 3'-5 1/2" | 7'-3"* |
| Clear Opening | 3' | 7' |

* includes 1/4" threshold

Performance Features

- Self-aligning magnetic seals assure long life and high in-field performance, even under constant use
- Cam-lift hinges lower and seal the door to the floor eliminating the high maintenance of automatic drop seals
- Split frames eliminate in-field grouting to achieve the specified acoustic performance with quick and clean installation



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IAC has worldwide offices and manufacturing plants in the UK, Australia, Canada, China, Malaysia, Indonesia, Thailand, Philippines Denmark, France, Germany, Italy, Spain, UAE - Dubai, USA Houston, USA Lincoln, USA - New York.

