



Data Sheet

Noise-Lock® STC 54 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 and checked
- Finished in polyester powder coating as standard
- Wood veneer and powder coat finish options available
- Door leaf is 3 1/2" thick

Acoustic Rating

STC 54(dB) to achieve minimum NIC 49 once installed (subject to flanking).

Rw [C; Ctr] 53 (-2 ; -6) dB to achieve minimum R'w 48 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® STC 54 | 21 | 58 | 28 | 40 | 48 | 52 | 51 | 52 | 52 | 54 | 55 | 55 | 54 | 51 | 51 | 51 | 54 | 59 | 63 |

Standard Features



Acoustic Rated



Easy Access Flat Thresholds



Blast Resistance



RF Shielding



Fire Rated

Fire Rated

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

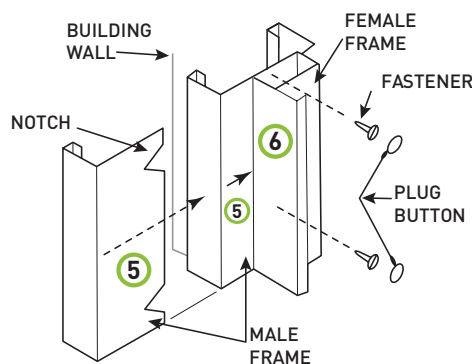
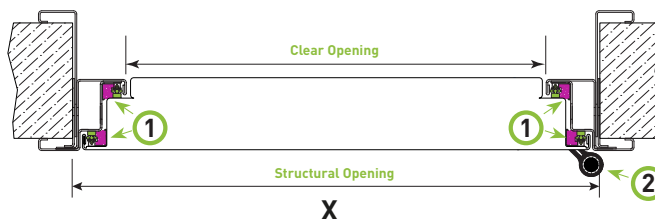
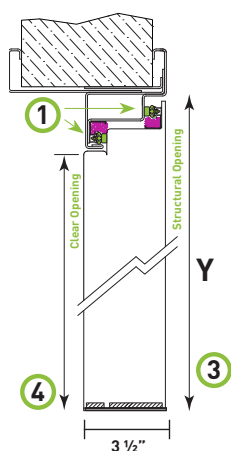
② Cam-lift Hinge

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 54 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