



Noise-Lock® STC 51 Steel Acoustic Door

DATASHEET

iac-acoustics-thailand.com



Data Sheet

Noise-Lock® STC 51 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 2 1/2" thick

Acoustic Rating

STC 51 (dB) to achieve minimum NIC 46 once installed (subject to flanking).

Rw (C; Ctr) 50 (-3 ; -9) dB to achieve minimum R'w 45 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 51	24	20	23	28	37	44	47	49	48	50	53	52	53	52	51	51	54	58	59

Standard Features



Acoustic Rated



Easy Access
Flat Thresholds

Optional Extras



Blast Resistance



RF Shielding



Fire Rated



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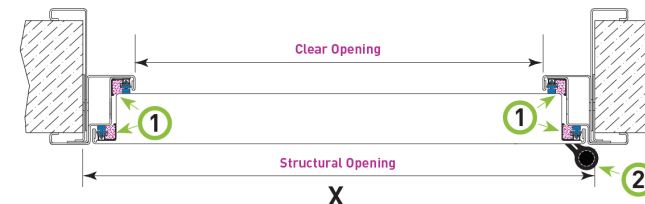
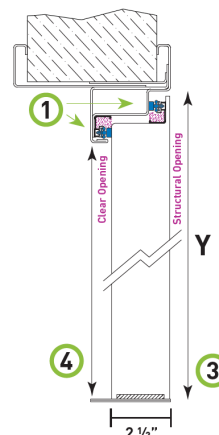
IAC Acoustics produces an engineered system — fully factory assembled complete with a leaf, architectural split-frame, acoustic seals, cam-lift hinges and hardware. All doors are pre-hung for operational alignment, fit and finish before shipping.

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.

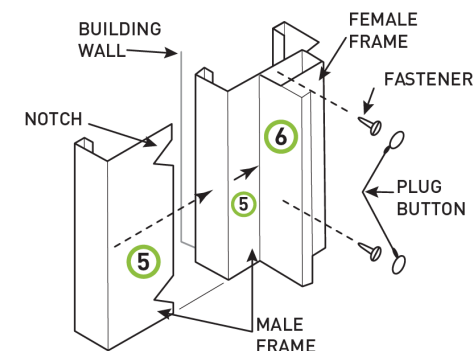
- ① Acoustic Seal
- ② Cam-lift Hinge
- ③ Boot Seal
- ④ Sill
- ⑤ Male Frame
- ⑥ Main Frame / Female Frame



The relationship between the clear and structural openings for both width and height is the same for all sizes of Noise-Lock® STC 51 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 1/4"
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.

