



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

Standard Features



Acoustic Rated



Easy Access Flat Thresholds

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® STC 43	20	12	23	33	34	37	38	38	39	40	41	40	42	46	48	46	45	45	45

Overview

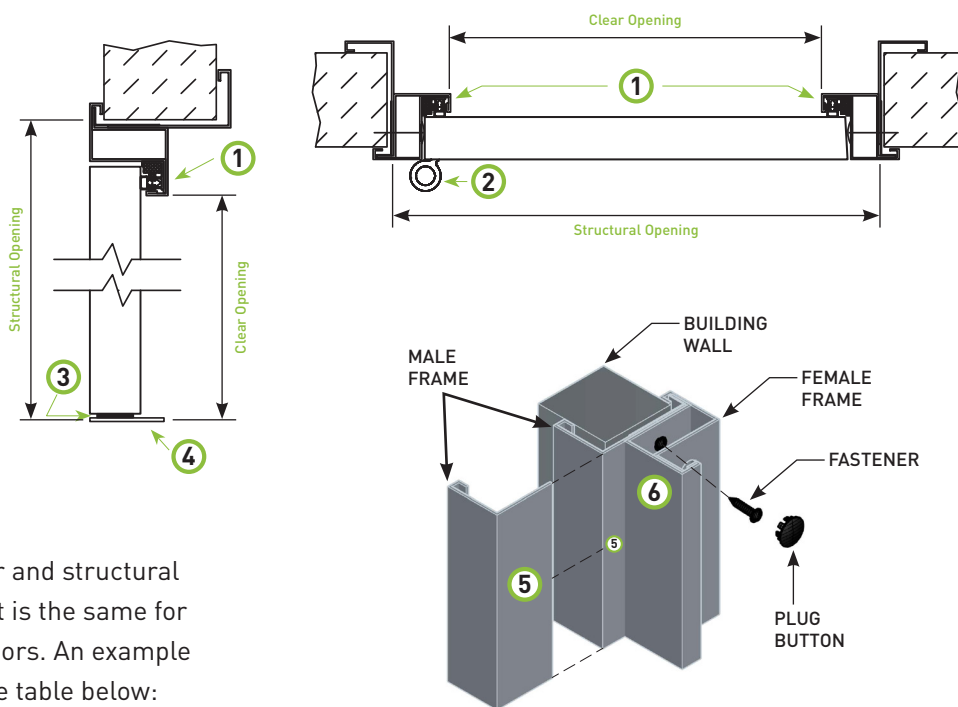
IAC Acoustics produces an engineered system — fully factory assembled complete with a leaf, architectural split-frame, acoustic seals, cam-lift hinges and hardware. All doors are pre-hung for operational alignment, fit and finish before shipping.

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