



Data Sheet

Noise-Lock® STC 51 Steel Acoustic Door



WHAT ARE WE OFFERING?

- ✓ The acoustic doors come prime painted ready for field paint.
- ✓ Our Noise Lock quick ship doors have an STC rating of 51.
- ✓ They come fully assembled including factory installed seals and hardware.
- ✓ Each door is pre-hung to ensure proper fit and finish in the field.

HOW DO WE STACK UP AGAINST THE COMPETITION?

CATEGORY	IAC ACOUSTICS	DOOR KIT COMPANIES
ASSEMBLY	<ul style="list-style-type: none"> ✓ IAC Acoustics doors come factory assembled. The door and frame are pre hung and the gaskets come installed. ✓ This ensures ease of install and offers no compromise to the STC ratings 	<ul style="list-style-type: none"> ✓ Door Kit Companies ship the frame, door leaf and gaskets all loose ✓ Hardware is not included ✓ In field assembly may cause for compromise to STC rating
HARDWARE	<ul style="list-style-type: none"> ✓ Our hardware comes factory modified and installed 	<ul style="list-style-type: none"> ✓ Partial prep is offered as an option
SEALS	<ul style="list-style-type: none"> ✓ Double seals are included and factory installed prior to shipment 	<ul style="list-style-type: none"> ✓ Compression seals are provided and shipped loose with order.
PERFORMANCE	<ul style="list-style-type: none"> ✓ IAC Acoustics doors have guaranteed performance based on level head and plumb jamb. ✓ The limited interference to the door assembly reduces time and additional costs as well as guarantees STC performance 	<ul style="list-style-type: none"> ✓ Door Kits performance is based on level head, plumb jamb, shimmed hinges, grout, modification of hardware and fitting of compression seals. ✓ All of these variables lead to compromised performance
AESTHETICS	<ul style="list-style-type: none"> ✓ Our fastener screws are not exposed making for a more aesthetically appealing finished door. 	<ul style="list-style-type: none"> ✓ Kit companies provide doors that have exposed screws at the jambs, sill and head of the door
REMODEL	<ul style="list-style-type: none"> ✓ This IAC Acoustics door is a split frame and can be inserted into an existing wall opening 	<ul style="list-style-type: none"> ✓ N/A the door frame will need to be installed during wall construction opening



Overview

- Certified performance rating
- Manufactured to standard sizes
- Available as single leaf
- Cam-lift hinges used to maximize acoustic seal
- Rugged steel construction
- Factory assembled and checked
- Door leaf is 2 1/2" thick

Standard Features



Acoustic Rated



Fire Rated



Easy Access Flat Thresholds

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

Overview

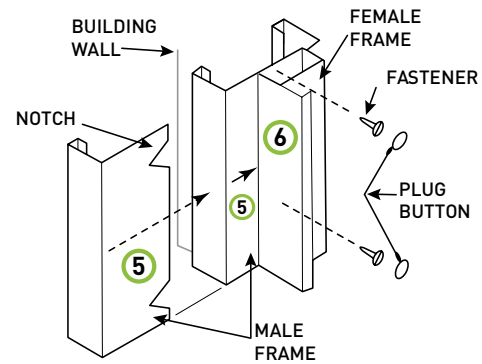
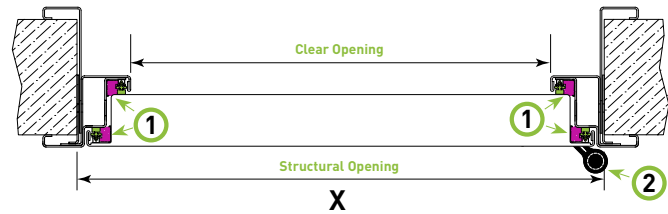
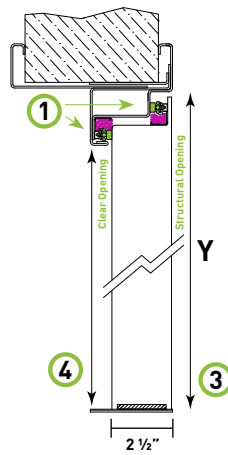
IAC Acoustics produces an engineered system — fully factory assembled complete with a leaf, architectural split-frame, acoustic seals, cam-lift hinges and hardware. All doors are pre-hung for operational alignment, fit and finish before shipping.

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 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"*
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

Represented by:



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