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?

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>IAC ACOUSTICS</th>
<th>DOOR KIT COMPANIES</th>
</tr>
</thead>
</table>
| ASSEMBLY | - IAC Acoustics doors come factory assembled. The door and frame are prehung and the gaskets come installed.  
- This ensures ease of install and offers no compromise to the STC ratings | - Door KR 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 | - Our hardware comes factory modified and installed | - Partial prep is offered as an option |
| SEALS | - Double seals are included and factory installed prior to shipment | - Compression seals are provided and shipped loose with order. |
| PERFORMANCE | - IAC Acoustics doors have guaranteed performance based on level head and plum jamb.  
- The limited interference to the door assembly reduces time and additional costs as well as guarantees STC performance | - Door Kits performance is based on level head, plum jamb, shimmed hinges, grout, modification of hardware and fitting of compression seals.  
- All of these variables lead to compromised performance |
| AESTHETICS | - Our fastener screws are not exposed making for a more aesthetically appealing finished door. | - Kit companies provide doors that have exposed screws at the jambs, sill and head of the door |
| REMODEL | - This IAC Acoustics door is a split frame and can be inserted into an existing wall opening | - N/A the door frame will need to be installed during wall construction |

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

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.

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:

<table>
<thead>
<tr>
<th>Door Opening</th>
<th>Width (X)</th>
<th>Height (Y)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural/Rough Opening</td>
<td>3’-5½”</td>
<td>7’-3”*</td>
</tr>
<tr>
<td>Clear Opening</td>
<td>3’</td>
<td>7”</td>
</tr>
</tbody>
</table>

* includes ¼” 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