Data Sheet
Noise-Lock® STC 53 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 ½” thick

Acoustic Rating

STC 53(dB) to achieve minimum NIC 48 once installed (subject to flanking).
Rw [C; Ctr] 52 [-2 ; -7] dB to achieve minimum R’w 47 dB once installed (subject to flanking).
Certified laboratory performance in single leaf arrangement as follows:

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>63</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>160</th>
<th>200</th>
<th>250</th>
<th>315</th>
<th>400</th>
<th>500</th>
<th>630</th>
<th>800</th>
<th>1000</th>
<th>1250</th>
<th>1600</th>
<th>2000</th>
<th>2500</th>
<th>3150</th>
<th>4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Noise-Lock® STC 53</td>
<td>22</td>
<td>24</td>
<td>27</td>
<td>31</td>
<td>42</td>
<td>47</td>
<td>47</td>
<td>48</td>
<td>50</td>
<td>53</td>
<td>54</td>
<td>54</td>
<td>54</td>
<td>53</td>
<td>51</td>
<td>51</td>
<td>53</td>
<td>57</td>
<td>58</td>
</tr>
</tbody>
</table>
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.

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The relationship between the clear and structural openings for both width and height is the same for all sizes of Noise-Lock® STC 53 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’-5 ½”</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