LESSER SCAUPS -
also known as Bluebills
These are the most common Scaup... The other Greater Scaup much less common and only slightly different. For all intents and purposes these are the "Bluebills" hunters prize... Tough targets, cold weather prizes!
ACOUSTICAL

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The chart below indicates the STC rating of specially made acoustic doors using various applications of gasketing. The first column is the rating of the door panel only; tested in a static inoperable condition to determine the sound transmission through the door. The second column is the rating of the operable door installed with hardware and gasketing which provides the STC rating of the door assembly.

### Sound Transmission Class (STC) Rated Single Door Assemblies

<table>
<thead>
<tr>
<th>STC Rating</th>
<th>STC Rating</th>
<th>Perimeter Seals</th>
<th>Door Bottom</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Door Panel</td>
<td>Operable Door w/ Gasketing</td>
<td></td>
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<tr>
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<td>420N</td>
<td>897NS</td>
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<tr>
<td>30</td>
<td>30</td>
<td>130S</td>
<td>225S</td>
<td>896S</td>
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<td>780S</td>
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<td>34</td>
<td>5020, 5075</td>
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<td>5070, 9750, 9850</td>
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<td>5075</td>
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<tr>
<td>40</td>
<td>37</td>
<td>103N, 107N, 303N</td>
<td>420N</td>
<td>897NS</td>
</tr>
<tr>
<td>40</td>
<td>38</td>
<td><em>(2)</em> 5050</td>
<td>335N</td>
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<tr>
<td>40</td>
<td>39</td>
<td>120N, 122N, 133N, 134N, 137N, 137S, 303N, 700N, 700S</td>
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<td>1038N, 3038N</td>
<td>423N</td>
<td>896S</td>
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<td>896S</td>
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<tr>
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<td><em>(2)</em> 5050</td>
<td>335N</td>
<td>896S</td>
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<tr>
<td>47</td>
<td>43</td>
<td><em>(2)</em> 5050</td>
<td>423N</td>
<td>896S</td>
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<td>107S</td>
<td>220S</td>
<td>950S</td>
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<td>44</td>
<td>103NFS</td>
<td>422N</td>
<td>843S</td>
</tr>
<tr>
<td>52</td>
<td>44</td>
<td>107N, 131N, 1038N, 3038N</td>
<td>420N</td>
<td>897NS</td>
</tr>
</tbody>
</table>

* Indicates 2 rows of 5050 installed as follows:
- **Head & Lock Jamb**
- **Hinge Jamb**

**STC Seal Sets - Single Doors**

NGP Seal Sets maintain the static door panel STC with **NO DROP OFF**, up to the STC rating indicated.

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>5050 &amp; 2525</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>2</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>312V X 131N</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>3</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>4</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>5</td>
<td>52</td>
<td>5075 &amp; 5060</td>
<td>225S X STC2</td>
<td>60FP (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>6</td>
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<td>5075 &amp; 5060</td>
<td>None</td>
<td>60FP (2 req.)</td>
<td>896S-ADJ</td>
</tr>
</tbody>
</table>

**STC #3 Illustration**

**TOP OF FRAME**

HEADER / JAMB AND DOOR

**HINGE & STRIKE JAMBS WITH THRESHOLD**

**BOTTOM OF DOOR**

THRESHOLD AND FLOOR

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum*
**STC Seal Sets - Pairs of Doors**

<table>
<thead>
<tr>
<th>STC Seal Set</th>
<th>STC Rating</th>
<th>Perimeter Seals at Heads &amp; Jambs</th>
<th>Door Bottom</th>
<th>Corner Pads</th>
<th>Meeting Edge Seals</th>
<th>Threshold</th>
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</thead>
<tbody>
<tr>
<td>7</td>
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<td>5075 &amp; 5060</td>
<td>225S X STC2-PR</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>8</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>12T6 X STC-FH</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
</tr>
<tr>
<td>9</td>
<td>45</td>
<td>5075 &amp; 5060</td>
<td>335S X STC2-PR</td>
<td>60FP (3 req.)</td>
<td>5060 (2 req.)</td>
<td>8144S*</td>
</tr>
</tbody>
</table>

*optional

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum*
Sound Transmission Class (STC) Rated Pairs of Doors

Pairs of doors are intrinsically more difficult to control sound transmission through. Sealing the gap between the meeting edges under the doors is challenging, requiring a combination of properly coordinated and installed gasketing to seal all gaps.

<table>
<thead>
<tr>
<th>STC Rating Static Door Panel</th>
<th>STC Rating Operable Door w/ Gasketing</th>
<th>Perimeter Seals</th>
<th>Door Bottom</th>
<th>Threshold</th>
<th>Astragal</th>
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<tbody>
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<td>35</td>
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<td>33</td>
<td>5025</td>
<td></td>
<td>896S</td>
<td>5070</td>
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</tbody>
</table>

Standard Doors without Special Acoustic Cores

Solid core wood doors with gasketing test to an STC rating of approximately 28 to 30. Mineral core wood doors and Honey comb core hollow metal doors with gasketing test to an STC rating of approximately 32 to 36. Without gasketing these doors have no sound control and test to an STC rating between 15 and 20.

To most effectively reduce sound transmission and maximize the acoustic performance we recommend the following be used:

**PERIMETER AND DOOR BOTTOMS**

- 107S Perimeter Seal
- 700S Seal at head if a parallel arm closer is used
- 220S Automatic Door Bottom
- Any Threshold - To allow proper sealing of Automatic Door Bottom

**MEETING EDGE of PAIRS**

- 109N Overlapping Astragal
- 5070 Adhesive Astragal
- 115N Astragal Set

**School Classroom Door STC Requirements**

ANSI/ASA S12.60 Acoustical Performance Criteria, Design Requirements, and Guidelines for schools requires interior doors opening into core learning spaces to achieve STC 30 or greater in their operable condition and interior doors into music rooms at least STC 40.
NGP STC SEAL SET #1
FOR USE WITH STC 33 AND BELOW

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>5050</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>2525</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP (2 req.)</td>
<td>FRAME, LOWER CORNERS</td>
</tr>
<tr>
<td>312V X 131N</td>
<td>DOOR BOTTOM</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

TOP OF FRAME
HEADER / JAMB AND DOOR

Hinge & Strike Jamb with Threshold

Bottom of Door
Threshold and Floor

8144 Smooth Side Up
(Optional)
NGP STC SEAL SET #2
FOR USE WITH STC 45 AND BELOW

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>LOCATION</th>
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</thead>
<tbody>
<tr>
<td>5075</td>
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</tr>
<tr>
<td>5060</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP</td>
<td>FRAME, LOWER CORNERS</td>
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<tr>
<td>2 req.</td>
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</tr>
<tr>
<td>312V X 131N</td>
<td>DOOR BOTTOM</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

TOP OF FRAME
HEADER / JAMB AND DOOR

BOTTOM OF DOOR
THRESHOLD AND FLOOR
NGP STC SEAL SET #3
FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>5075</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>5060</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP (2 req.)</td>
<td>FRAME, LOWER CORNERS</td>
</tr>
<tr>
<td>335S X STC2</td>
<td>DOOR, MORTISE ADB</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

TOP OF FRAME
HEADER / JAMB AND DOOR

BOTTOM OF DOOR
THRESHOLD AND FLOOR

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum
NGP STC SEAL SET #4
FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS

<table>
<thead>
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<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>5060</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP (2 req.)</td>
<td>FRAME, LOWER CORNERS</td>
</tr>
<tr>
<td>12T6 X STC-FH</td>
<td>DOOR SHOE WITH STC FASTENER HOLES</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

TOP OF FRAME
HEADER / JAMB AND DOOR

BOTTOM OF DOOR
THRESHOLD AND FLOOR

Hinge & Strike
JAMBS WITH THRESHOLD
NGP STC SEAL SET #5
FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS

<table>
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</tr>
<tr>
<td>5060</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP</td>
<td>FRAME, LOWER CORNERS (2 req.)</td>
</tr>
<tr>
<td>225S X STC2</td>
<td>DOOR, MORTISE ADB</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
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</table>

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum
NGP STC SEAL SET #6
FOR USE WITH STC 52 AND BELOW

LIST OF MATERIALS

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<tr>
<th>ITEMS</th>
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</tr>
<tr>
<td>5060</td>
<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>896S-ADJ</td>
<td>ADJUSTABLE BUMPER THRESHOLD</td>
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</table>

TOP OF FRAME
HEADER / JAMB AND DOOR

896S-ADJ * BUMPER THRESHOLD

*ADA bumper style threshold, requires 3/8" undercut on doors
NGP STC SEAL SET #7
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW

**LIST OF MATERIALS**

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>LOCATION</th>
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<tbody>
<tr>
<td>5075</td>
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<td>JAMBS &amp; HEADER</td>
</tr>
<tr>
<td>60FP (2 req.)</td>
<td>FRAME, LOWER CORNERS INACTIVE DOOR, LOWER</td>
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<tr>
<td>60FP (1 req.)</td>
<td>DOOR, MORTISE ADB WITH STC2 &amp; FLANGE SEAL</td>
</tr>
<tr>
<td>225S X STC2-PR</td>
<td>INACTIVE DOOR, 2 ROWS</td>
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<tr>
<td>5060</td>
<td>INACTIVE DOOR, 2 ROWS</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

**TOP OF FRAME**
HEADER / JAMB AND DOOR

**MEETING EDGE**

**TOP FLUSH BOLT**
INACTIVE DOOR

**BOTTOM-SURFACE BOLT**
INACTIVE DOOR

*For best acoustic results a 1/4” drop is recommended; 3/8” drop maximum
NGP STC SEAL SET #8
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW

### LIST OF MATERIALS

<table>
<thead>
<tr>
<th>ITEMS</th>
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<td>FRAME, LOWER CORNERS</td>
</tr>
<tr>
<td>60FP (1 req.)</td>
<td>INACTIVE DOOR, LOWER</td>
</tr>
<tr>
<td>12T6 X STC-FH</td>
<td>DOOR SHOE WITH STC FASTENER HOLES</td>
</tr>
<tr>
<td>5060</td>
<td>INACTIVE DOOR, 2 ROWS</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

### TOP OF FRAME
- HEADER / JAMB AND DOOR
- FLUSH BOLTS INACTIVE DOOR
- CAN BE USED WITH OR WITHOUT BOTTOM FLUSH BOLT

### MEETING EDGE
- INACTIVE DOOR
- ACTIVE DOOR
- 8144 SMOOTH SIDE UP

### BOTTOM OF DOORS
- HINGE & STRIKE JAMBS WITH THRESHOLD
- 8144 SMOOTH SIDE UP (OPTIONAL)
- THRESHOLD AND FLOOR

NGP STC SEAL SET #8
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW

NGP STC SEAL SET #8
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW

NGP STC SEAL SET #8
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW
NGP STC SEAL SET #9
FOR USE WITH PAIRS OF DOORS
STC 45 AND BELOW

LIST OF MATERIALS

<table>
<thead>
<tr>
<th>ITEMS</th>
<th>LOCATION</th>
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<tbody>
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<td>5075</td>
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<td>FRAME, LOWER CORNERS</td>
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<tr>
<td>60FP (1 req.)</td>
<td>INACTIVE DOOR, LOWER</td>
</tr>
<tr>
<td>335S X STC2-PR</td>
<td>DOOR, MORTISE ADB</td>
</tr>
<tr>
<td></td>
<td>WITH STC2 &amp; FLANGE SEAL</td>
</tr>
<tr>
<td>5060</td>
<td>INACTIVE DOOR, 2 ROWS</td>
</tr>
<tr>
<td>8144S</td>
<td>THRESHOLD (OPTIONAL)</td>
</tr>
</tbody>
</table>

*For best acoustic results a 1/4" drop is recommended; 3/8" drop maximum
Self-Adhesive Silicone Gasketing

Silicone Bulb Fire and Smoke Seal

**Edge Sealing System - Category “G” for 20 minute rated category B wood doors perimeter application up to:**
- single swing 4’0 x 8’0
- pairs 8’0 x 8’0
  use 9550 at the meeting edge of pairs

**Smoke and Draft Control - Category “H”**
- Up to 3 hours Hollow Metal fire doors
- Up to 90 minutes Wood fire doors

Meets requirements of RoHS Directive

Silicone Bulb Smoke Seal


Silicone Fin Smoke Seal

Available in 17’ and 21’ rolls.

Adhesive specifications: Modified acrylic pressure sensitive adhesive protected by release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence of chemicals. End use temperature range, long term exposure -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.
Self-Adhesive TPE Gasketing

Properties:
- Thermo-Plastic Elastomer (TPE)
- Good abrasion resistance
- Moisture resistant
- BHMA certified to ANSI/BHMA A156.22 performance tests for heat, cold, air infiltration and smoke infiltration
- Rigid PVC base with flexible elastomeric fins
- Flame resistant
- Temperature range -60°F to 275°F
- Anti-microbial: treated with an anti-microbial additive to inhibit the growth of microorganisms
- REACH and RoHS compliant

Available in 36", 48", 72", 84", 96" and 108" lengths

Adhesive specifications: Modified acrylic pressure sensitive adhesive protected by release liner. Provides high initial adhesion and long term holding power for permanent mounting in exterior or interior locations. Resistant to aging, weathering, UV radiation, water, detergent, alcohol and the influence of chemicals. End use temperature range, long term exposure -30°F up to 250°F. Shelf life of adhesive prior to installation is one year when stored at 75°F and 50% relative humidity or less.
Acoustical Door Shoe

Aluminum alloy 6063, T5 temper
Thermoplastic polymer: Polyvinyl Chloride (PVC) formulated with an environmentally friendly Bio-based plasticizer

- Economical
- Flame resistant
- Moisture resistant
- Temperature range 0°F to 140°F
- Oxidative degradation from age and exposure to cold, heat and UV causes hardening, loss of memory and resilience, cracking, crazing and discoloration
- #6 x 3/4" stainless steel SMS furnished
- Screw holes slotted for adjustment

STC Rated Acoustical Foam Pad

Foam seal self adhesive

- Helps acoustics and seals at corner gap
- Apply to jambs on hinge and strike side
- Color is black
Automatic Door Bottoms - Mortise

- Use with a threshold for maximum sealing capability
- Specify exact net length required to avoid field sizing
- 36" and longer may be cut up to 4" in the field, under 36" should not be cut in the field, order net length
- End caps furnished standard
- Furnished 1/2" shorter than ordered to fit within net door size. (i.e. 36" is furnished 35-1/2").

335S X STC2
silicone

Mortise required
5/8" x 1-9/16"
9/16"
1-1/2"
3/4" Max Drop*

225S X STC2
silicone

Mortise required
3/8" x 1-15/16"
11/16"
1-3/4"
7/8" Max Drop*

*For best acoustic results a 1/4" drop is recommended, 3/8" drop maximum.

Thermoplastic Door Shoes

Thermoplastic polymer seal with rigid base and soft vinyl fins.

335S X STC2
silicone

Available 23-1/4" net to 48" in length
Fits wood fire door mortise restrictions

225S X STC2
silicone

Available 11" to 60" in length
Available with lead insert for radiation shield - specify "lead-lined"

Material Finishes:
A - anodized aluminum
DKB - dark bronze
no suffix = mill aluminum
thermoplastic is dark brown

#6 x 3/4" stainless steel
SMS furnished

Silicone is gray
Adjustable ADA Compliant Bumper Seal Threshold

- Stainless steel adjustment screws on 10" centers allow adjustment without re-positioning mounting location.
- Adjusting range 1/4"

896-ADJ .78 lbs./ft.

MATERIALS & FINISHES
- Aluminum mill finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished.

Thresholds

MATERIALS & FINISHES
- Aluminum mill finish
- DKB - Aluminum dark bronze finish
- Optional: Slip Resistant SIA Finish

FASTENERS
#10 x 1-1/2" FH zinc plated wood screws furnished. Dark bronze supplied with DKB thresholds.
L-FRA100 STC & L-FRA100-SP STC

Low Profile Sound Rated Lite Kit Option - Suffix “STC”

Silicone acoustical seal applied to reduce sound transmission

Acoustical Testing performed at Intertek Testing, Inc. to:
ASTM E 413, *Classification for Rating Sound Insulation.*

**STC Ratings:**
- SuperLite I-W: STC 28
- Pyran Platinum F: STC 31
- Pyran Platinum L: STC 36
- SuperLite I-20: STC 28
- SuperLite X-90: STC 38
- Wired: STC 28
- Tempered - 1/4": STC 31
- Insulated Tempered - 1": STC 35
- Polycarbonate 1/4": STC 29
- Polycarbonate 1/2": STC 34
- SuperLite II-XL (45 min.): STC 40