### ACOUSTIC PERFORMANCE

<table>
<thead>
<tr>
<th>OCTAVE BAND CENTER FREQUENCIES</th>
<th>63Hz</th>
<th>125Hz</th>
<th>250Hz</th>
<th>500Hz</th>
<th>1000Hz</th>
<th>2000Hz</th>
<th>4000Hz</th>
<th>8000Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATTENUATION TYPE</td>
<td>63Hz</td>
<td>125Hz</td>
<td>250Hz</td>
<td>500Hz</td>
<td>1000Hz</td>
<td>2000Hz</td>
<td>4000Hz</td>
<td>8000Hz</td>
</tr>
<tr>
<td>FREE-FIELD NOISE REDUCTION (dB)</td>
<td>9</td>
<td>10</td>
<td>10</td>
<td>13</td>
<td>20</td>
<td>21</td>
<td>17</td>
<td>17</td>
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<tr>
<td>TRANSMISSION LOSS (dB)</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>14</td>
<td>15</td>
<td>11</td>
<td>11</td>
</tr>
</tbody>
</table>

**NOTE:** Data obtained in accordance with ASTM E90 test standard for transmission loss. 63Hz and 8000Hz octave bands are estimated values derived from test data.

**MINIMUM SECTION SIZE:**
- 12" (305) WIDE X 14.500" (368) HIGH
- SMALLER SIZES AVAILABLE UPON REQUEST & REQUIRE APPROVAL OF DETAILED SUBMITTAL

**MAXIMUM SECTION SIZE:**
- 72" (1829) WIDE X 96" (2438) HIGH
- MULTIPLE SECTIONING IN HEIGHT WILL HAVE A CONTINUOUS VERTICAL APPEARANCE
- MAXIMUM SECTION SIZE MAY VARY FOR ANODIZED FINISH

**STANDARD CONSTRUCTION:**
- FRAME: 6" (152 mm) DEEP, 12 GA FORMED ALUMINUM
- BLADES: 12 GA FORMED ALUMINUM
- PERFORATED LINER: 18 GA FORMED ALUMINUM
- INSULATION: 2" THICK FIBER GLASS BLANKET

**STANDARD FINISH:**
- LOUVERS: MILL FINISH (ALUM. & SS)
- PRIME COAT WIPE COAT
- PERFORATED LINER: MILL FINISH
- PRIME COAT WIPE COAT

**OPTIONAL LOUVER FINISHES:**
- PRIME COAT
- BAKED ENAMEL
- DURANAR
- DURANAR XL
- CLEAR ANODIZED (ALUM. ONLY)
- COLOUR ANODIZED (ALUM. ONLY)

**AVAILABLE OPTIONS:**
- EXTENDED SILL (LOOSE)
- BIRD SCREEN
- INSECT SCREEN
- BLANK OFF PANEL

*SEE LOUVER SCHEDULE FOR DEFAULT LIST OF OPTIONS*
QA845
8" ACOUSTIC LOUVER

SECTION SIDE VIEW

FRONT
BACK

OPENING WIDTH ( NOMINAL )
LOUVER WIDTH ( ACTUAL )

CONCEALED MULLION
TOP VIEW

STANDARD CONSTRUCTION:
- FRAME: 8" (203 mm) DEEP, 12 GA FORMED ALUMINUM
- BLADES: 12 GA FORMED ALUMINUM
- PERFORATED LINER: 18 GA FORMED ALUMINUM
- INSULATION: 2" THICK FIBER GLASS BLANKET

OPTIONAL MATERIALS:
- 16 GA WIPE COAT (GALVANNEAL) WITH 22 GA GALVANIZED PERFORATED LINER
- 16 GA 304-2B SS WITH 22 GA SS PERFORATED LINER
- 16 GA 316-#4 SS WITH 22 GA SS PERFORATED LINER

MINIMUM SECTION SIZE:
- 12" (305) WIDE X 16.500" (419) HIGH
SMALLER SIZES AVAILABLE UPON REQUEST & REQUIRE APPROVAL OF DETAILED SUBMITTAL

MAXIMUM SECTION SIZE:
- 72" (1829) WIDE X 96" (2438) HIGH
MULTIPLE SECTIONING IN HEIGHT WILL HAVE A CONTINUOUS VERTICAL APPEARANCE
* MAXIMUM SECTION SIZE MAY VARY FOR ANODIZED FINISH

STANDARD FINISH:
- LOUVERS: MILL FINISH (ALUM. & SS)
- PRIME COAT (WIPE COAT)
- PERFORATED LINER: MILL FINISH ONLY

OPTIONAL LOUVER FINISHES:
- PRIME COAT
- BAKED ENAMEL
- DURANAR
- DURANAR XL
- CLEAR ANODIZED (ALUM. ONLY)
- COLOUR ANODIZED (ALUM. ONLY)

AVAILABLE OPTIONS:
- EXTENDED SILL (LOOSE)
- BIRD SCREEN
- INSECT SCREEN
- BLANK OFF PANEL
* SEE LOUVER SCHEDULE FOR DEFAULT LIST OF OPTIONS

ACOUSTIC PERFORMANCE

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<tr>
<th>ATTENUATION TYPE</th>
<th>60Hz</th>
<th>125Hz</th>
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<td>11</td>
<td>15</td>
<td>24</td>
<td>25</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>TRANSMISSION LOSS (dB)</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>9</td>
<td>18</td>
<td>19</td>
<td>13</td>
<td>13</td>
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NOTES: DATA OBTAINED IN ACCORDANCE WITH ASTM E90 TEST STANDARD FOR TRANSMISSION LOSS. 63Hz AND 8000Hz OCTAVE BANDS ARE ESTIMATED VALUES DERIVED FROM TEST DATA.

ALL METRIC DIMENSIONS [ ] ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND Rounded TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER: MLH

CUSTOMER: QA845

SUBMITTAL DATE: DEC 19, 2014

SPEC. SYMBOL: 264265

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ECN: 141361

REV B
**QA1245**

**12" ACOUSTIC LOUVER**

**Submittal Sheet**

**OPENING WIDTH (NOMINAL)**

**LOUVER WIDTH (ACTUAL)**

**25 (1/6)**

**GAP**

**25 (1/6)**

**GAP**

**LOUVER SECTION**

**CONCEALED MULLION**

**TOP VIEW**

**SECTION SIDE VIEW**

**FRONT**

**BACK**

**PERFORATED LINER**

**OPTIONAL B - FLANGE**

**0.50" - 4.00"**

**6.00 (152)**

**BLADE SPACING**

**25 (1/6)**

**GAP**

**25 (1/6)**

**GAP**

**STANDARD CONSTRUCTION**

- Frame: 12" (305 mm) deep, 12 Ga Formed Aluminum
- Blades: 12 Ga Formed Aluminum
- Perforated Liner: 18 Ga Formed Aluminum
- Insulation: 2" thick fiber glass blanket

**OPTIONAL MATERIALS:**

- 16 Ga Wipe Coat (Calvanneal) with 22 Ga Galvanized Perforated Liner
- 16 Ga 304-2B SS with 22 Ga SS Perforated Liner
- 16 Ga 316-#4 SS with 22 Ga SS Perforated Liner

**MINIMUM SECTION SIZE:**

- 12" (305) wide x 20.500" (520) high
- Smaller sizes available upon request & require approval of detailed submittal

**MAXIMUM SECTION SIZE:**

- 72" (1829) wide x 96" (2438) high
- Multiple sectioning in height will have a continuous vertical appearance
- *Maximum section size may vary for anodized finish*

**STANDARD FINISH:**

- Louvers: Mill Finish (Alum & SS)
- Prime Coat | Wipe Coat
- Perforated Liner: Mill Finish (Only)

**OPTIONAL LOUVER FINISHES:**

- Prime Coat
- Baked Enamel
- Duranar
- Duranar XL
- Clear Anodized (Alum. Only)
- Colour Anodized (Alum. Only)

**AVAILABLE OPTIONS:**

- Extended Sill (Loose)
- Bird Screen
- Insect Screen
- Blank Off Panel

*See Louver Schedule for default list of options*

**ACOUSTIC PERFORMANCE**

**OCTAVE BAND CENTER FREQUENCIES**

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QA1245

12" (305) ACOUSTIC LOUVER

ECN: 141361

REV B

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