ACOUSTIC LOUVRES AKR

AKR sound damping ventilation grilles are developed specifically for situations where large amounts of air must flow through a grid and where the space for installation is limited. The AKR is an outside air grille combined with acoustic damping in one product. Thanks to the sleek design and robust construction, AKR acoustic grilles can be used in both construction and industrial projects.

APPLICATIONS
The AKR sound damping grille is designed to be integrated in any desired architecture and/or colour combination. There are five different types of AKR acoustic grilles, each with their own properties in terms of sound damping, depth of installation and pressure loss.

SOUND INSULATION
The air sound insulation is listed in the table on the back side of this sheet. The insulation values are measured in conformance with ISO 140-3.

DIMENSIONS
- W x H = minimally 200 mm x 300 mm
- The grille is fitted with partitions when the height and/or width is/are greater than 3,000 mm.

COMPOSITION
The grille housings are as standard Sendzimir galvanised-constructed with straight or roof-shaped laminae filled with high-quality non-inflammable acoustic materials. In addition, a rain barrier and bird netting are fitted as standard.

FEATURES
- Five different versions
- Rain and snow resistant
- Small installation depth
- Easy to install

APPLICATIONS
- Industrial sound sources
- Enclosures
- Air conditioning systems
- Cooling/heating systems
- Parking garages, boiler houses
- Natural and balanced ventilation
- Schools and residential buildings
- Structural façades

SOUND INSULATION
Airborne sound insulation values measured with ISO 140-3 and calculated conform ISO-717-1

RAIN RESISTANCE
Rain resistant until a gross approach velocity of 2 m/s
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FINISH (OPTIONAL)
The visible side can optionally be treated with a wet enamel paint system or powder coating:
- Wet enamel: as standard one layer of two-component enamel system of approx. 60μm.
- Powder coating: as standard one layer, layer thickness minimally 60μm.

OPTIONS
- Two layer enamel system with epoxy primer and enamel finish, layer thickness minimally 100μm.
- Various types of assembly flanges, mounted or separately delivered.
- Other type of material: sea water resistant AlMg3 / stainless steel 304/316.

CONSTRUCTION DRAWINGS
Merford’s AKR grille is registered with the STABU and NBD organisations. Digital files, such as construction descriptions and PDFs can be sent on request.

GUARANTEE
Merford provides you with a guaranteed, acoustic and thermal solution. Please contact our sales department for more information.

DISCLAIMER
Although this product sheet is drawn up meticulously, no right can be derived from its content. We reserve the right to make changes. For the most up-to-date version, please contact our sales department or visit our website.

Sound insulation values for AKR grilles measured in conformance with ISO 140-3

<table>
<thead>
<tr>
<th>Frequency</th>
<th>R_{w} (C, C_{j})</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>10000</th>
<th>20000</th>
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<tbody>
<tr>
<td>AKR 150</td>
<td>11 (0,-2)</td>
<td>5</td>
<td>4</td>
<td>8</td>
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<td>13</td>
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<tr>
<td>AKR 350</td>
<td>13 (1,-2)</td>
<td>5</td>
<td>6</td>
<td>10</td>
<td>13</td>
<td>14</td>
<td>12</td>
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<tr>
<td>AKR 300</td>
<td>18 (-2,-3)</td>
<td>5</td>
<td>6</td>
<td>13</td>
<td>19</td>
<td>23</td>
<td>22</td>
<td>(dB)</td>
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</tr>
<tr>
<td>AKR 500</td>
<td>21 (-2,-3)</td>
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<td>9</td>
<td>17</td>
<td>23</td>
<td>26</td>
<td>25</td>
<td>(dB)</td>
<td></td>
</tr>
<tr>
<td>AKR HMH</td>
<td>20 (-2,-4)</td>
<td>7</td>
<td>12</td>
<td>17</td>
<td>17</td>
<td>23</td>
<td>23</td>
<td>(dB)</td>
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</tr>
</tbody>
</table>

Acoustic grille AKR mounted in steel structure