Round Aluminium Honeycomb Vents

Lightweight and versatile aluminium honeycomb vents are supplied in a variety of styles to facilitate mounting requirements and any overall size. Panels are designed to provide minimum pressure drop of airflow through the assembly whilst giving good RF attenuation. Panels are normally supplied using two layers of honeycomb oriented at 90° to provide non polarised attenuation. Straight through panels can be supplied with plating to overcome the polarisation problem.

Vents can be fitted with conductive gasket for improved shielding effectiveness, drilled holes or threaded captive inserts to aid fixing & can also include separate dust filters and protective kick plates to prevent accidental damage.

All panels finished in Alocrom 1200 to stop oxidisation. Other finishes available to order.

How to order

Vent Style | Honeycomb style
--- | ---
EMC1 | 1 - Two Layers (Cris Crossed) @ 6.35mm thick per layer
EMC2 | 2 - Single Layer
EMC3 | 3 - 30 degree (One layer straight though 2nd layer @ 30 degrees)
EMC4 | 4 - 45 degree (One layer straight though 2nd layer @ 45 degrees)
EMC5 | 5 - 60 degree (One layer straight through 2nd layer @ 60 degrees)
EMC6 | 6 - Two Layers (Cris Crossed) @ 6.35mm thick per layer
EMC7 | 7 - Single Layer
EMC8 | 8 - 30 degree (One layer straight though 2nd layer @ 30 degrees)
EMC9 | 9 - 45 degree (One layer straight though 2nd layer @ 45 degrees)
EMC10 | 10 - 60 degree (One layer straight though 2nd layer @ 60 degrees)
EMC11 | 11 - Two Layers (Cris Crossed) @ 6.35mm thick per layer
EMC12 | 12 - Single Layer
EMC13 | 13 - 30 degree (One layer straight though 2nd layer @ 30 degrees)
EMC14 | 14 - 45 degree (One layer straight though 2nd layer @ 45 degrees)
EMC15 | 15 - 60 degree (One layer straight though 2nd layer @ 60 degrees)

Overall Size | Fixings | Fixing type
--- | --- | ---
XXXX-XXXX | XXX | 1 - Insert (Capitive)
 | | 2 - Through Hole

Finish
1 - Alocrom 1200
2 - Surtec 650
3 - Nickel Plated
4 - Tin Plated
5 - Painted

Gasket
1 - Knitted Wire Mesh and Neoprene Sponge (EMC/EMI Sheld and Environmental IP67)

For Example: EMC1-1- 2500x2500-15-2-1-2 = Aluminium Honeycomb Vent – 2 Layers of Honeycomb – 250mm x 250mm square with 15 holes and finished in Alocrom 1200 with a knitted wire mesh and neoprene gasket.

Shielding Effectiveness - Type EMC1

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<th>Frequency</th>
<th>Attenuation</th>
<th>Field</th>
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<td>H</td>
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<tr>
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<td>P</td>
</tr>
<tr>
<td>10GHz</td>
<td>95</td>
<td>P</td>
</tr>
</tbody>
</table>

Figures for type EMC1 - 2 layers 6.3mm thick honeycomb, 3.2mm cell size at 90° (cross pole) with Alocrom 1200 finish. 285(modified).