

## 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.

### Specification

Material Property	Value
Aluminium Frame	6063-T6
Aluminium Honeycomb	5052 grade
Monel Wire	BS3075 NA13
Neoprene Sponge	Mil-R-6130 Type 11 grade A condition soft
Beryllium Copper	alloy 25 (CA172)
Silicone Rubber	ZZ-R-765 Class 2 Grade 40
Aluminium Wire	5056

### How to order

Vent Style	Honeycomb style	Overall Size	Fixings	Fixing type	Finish	Gasket
EMC1	1 - Two Layers (Cris Crossed) @ 6.35mm thick per layer	XXXX-XXXX	XXX	1 - Insert (Capitive) 2 - Through Hole	1 - Alocrom 1200 2 - Surtec 650 3 - Nickel Plated 4 - Tin Plated 5 - Painted	1 - Knitted Wire Mesh and Neoprene Sponge (EMC/EMI Shield and Environmental IP67)
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						
EMC6						
EMC7						
EMC8	5 - 60 degree (One layer straight though 2nd layer @ 60 degrees)					
EMC9						

For Example: EMC1-I- 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

Frequency	Attenuation	Field
10KHz	45	H
100KHz	49	H
1MHz	51	H
1MHz	>100	E
10MHz	>100	E
100MHz	>100	E
1GHz	98	P
10GHz	95	P

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



## Shielding Effectiveness - Type EMC5

Frequency	Attenuation	Field
10KHz	40	H
100KHz	43	H
1MHz	47	H
1MHz	84	E
10MHz	97	E
100MHz	>100	E
1GHz	85	P
10GHz	85	P

Figures for type EMC5 - 2 layers 3.2mm thick honeycomb, 3.2mm cell size at 90° (cross pole) with Alocrom 1200 finish.

## Shielding Effectiveness - Type EMC9

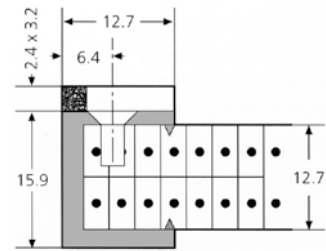
Frequency	Attenuation	Field
10KHz	33	H
100KHz	37	H
1MHz	39	H
1MHz	43	E
10MHz	84	E
100MHz	79	E
1GHz	50	P
10GHz	60	P

Figures for type EMC9 6.4mm single layer 3.2mm cell size with Alocrom 1200 finish.

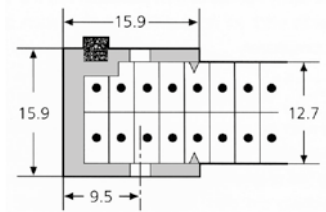
## Shielding Effectiveness - Type EMC12 & 13

Frequency	Attenuation	Field
10KHz	51	H
100KHz	57	H
1MHz	>105	H
1MHz	>105	E
10MHz	>105	E
100MHz	>105	E
1GHz	>105	P
10GHz	90	P
18GHz	90	P

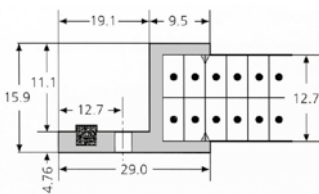
Figures for EMC12 & EMC13 - 2 layers 12.7mm thick honeycomb, 3.2mm cell size at 90° (cross pole) with Alocrom 1200 finish.



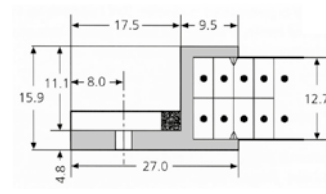
**EMC1**



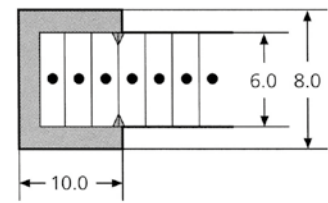
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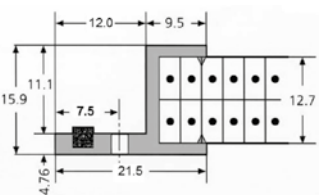
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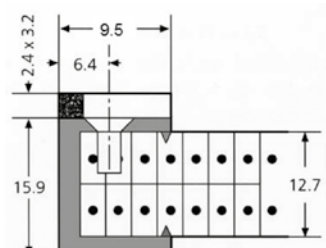
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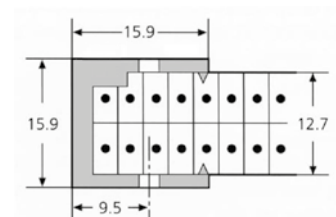
**EMC5**



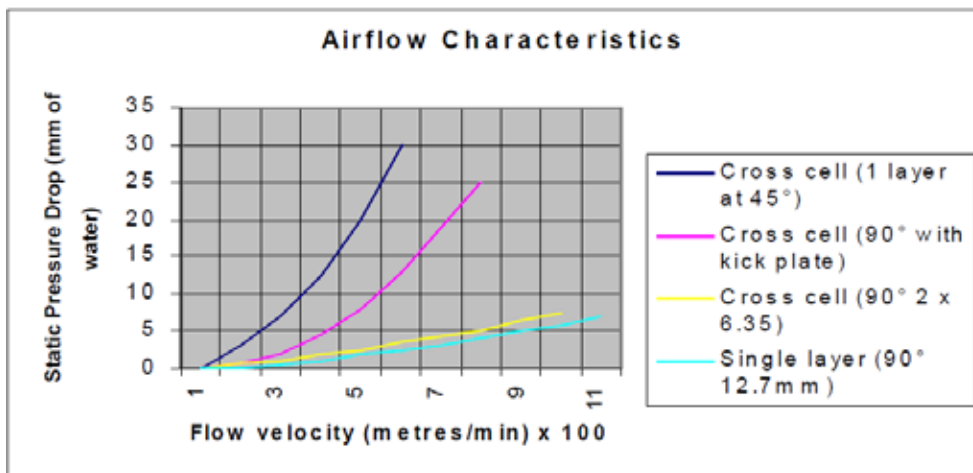
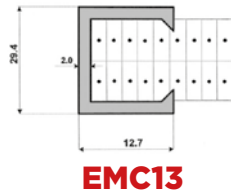
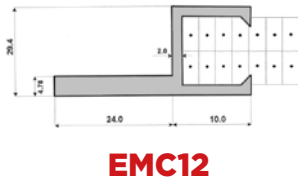
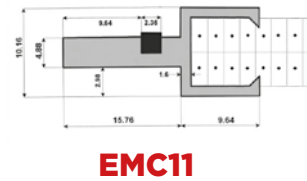
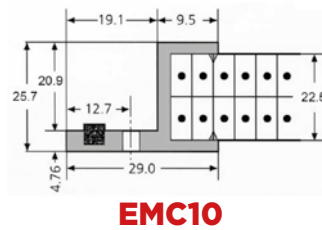
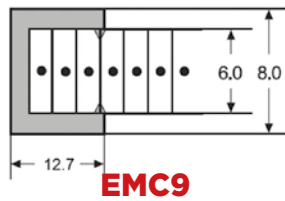
**EMC6**



**EMC7**



**EMC8**



All vents tested to STD285/MIL83528 Spec. Please note figures used are for reference only and should be used for guidance only.

Airflow characteristics applicable to vent types EMC1, EMC2, EMC3 & EMC4.

There are a choice of finishes available:

- Surtec 650
- Alochrom 1200
- Nickel Plating
- Tin Plating
- Painted (Large Choice of Standard Colours available)

For details & information on other types, please contact the factory on +44 (0)1787 460914 or e-mail [info@emcemi.com](mailto:info@emcemi.com).