9520 - EMC woven mesh ventilation panel

EMC Woven mesh ventilation panels are used for heating, air flow for cooling and ventilation in electronic enclosures without compromising the shielding integrity of an enclosure.

Aluminum EMC Woven mesh ventilation panels consist of 3 layers of pleated aluminium woven mesh, trapped between aluminum kick-plates, in a rigid aluminium frame, pre-drilled or with fasteners made to your specifications or flow drilled thread holes.

The 3 layers of pleated wire mesh are separated by the pleats being of different height enabling the vent to have a high dust holding capacity.

Approximately 95% of the 9520 series EMC Woven mesh ventilation panels are made to customer specifications, and are all made to comply an order.

These panels can be treated with a variety of finishes to provide corrosion protection or improve conductivity. Air filter oil can be applied to the alumi- nium filter media to assist in dirt and dust retention. Panels with a gasket groove have a knitted monel wire mesh gasket as standard. Other frames can be provi- ded with an additional EMI Gasket.

Standard delivery time: less than two weeks.

Options (on request)
- EMI gasketing
- Environmental sealing
- Kempass (RoHS) aluminum passivation finish

Benefits
- Light weight
- High shielding performance
- Very low air-flow resistance
- Reduction of turbulence

EMC gasket options
- 1200 series Metal knit gasket (Only frames with a gasket groove)
- 5711-5722 series Orientated wire shield gasket
- 1200 series Metal knit gasket with a Neoprene sponge carrier 2.4mm thick
- 2000 series Beryllium Copper finger strip

* Other gasket options on request

Attenuation levels (dB)

Frequency	dB
0.01 MHz	42
0.1 MHz	53
1.0 MHz	61
10.0 MHz	81
100 MHz	60
1000 MHz	52
10000 MHz	43

Design and constructional tips
In your design, you can take into consideration moi- sture and dust protection through:

- Color coated frame (leave a part free of coating for contact)
- External overhang for rain protection
- Holes for drainage
- Aerodynamic drag
- Additional EMC gasketing
- Try to avoid round vents because its complexity and therefore expensive production
- Prevent holes in corners of the frame because of the rigidity of the frame when compressing the gasket
- If specifying captive inserts in both sides of the frame off-set the position by 10mm minimum

Finishes (on request)
- Painted (frame only for dust panels)
- Electro less plated Tin or Nickel
- Kempass (RoHS) Aluminium Passivation process
- Trivalent chromium (RoHS compliant) or Hexavalent chromium

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www.hollandshielding.com
Jacobus Lipsweg 124, NL-3316 BP
Dordrecht, The Netherlands
Ph: +31(0)78 - 204 90 00
Fax: +31(0)78 - 204 90 08
info@hollandshielding.com
hollandshielding.com

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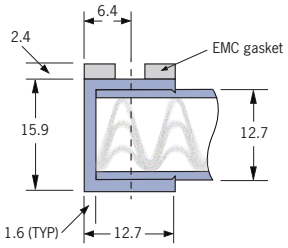
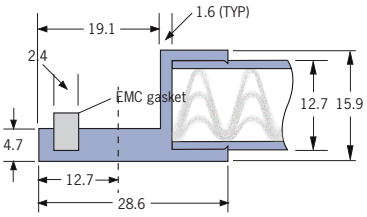
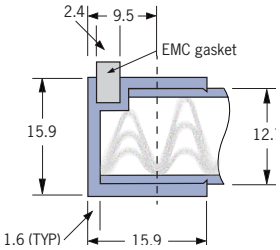
Frame options



Frame type a



Frame type b



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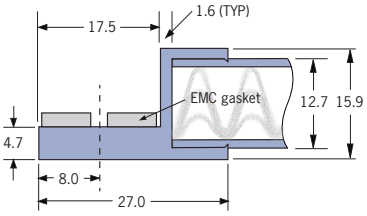

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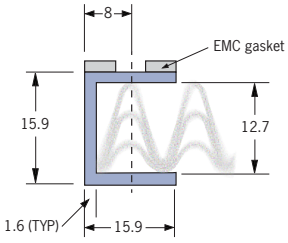
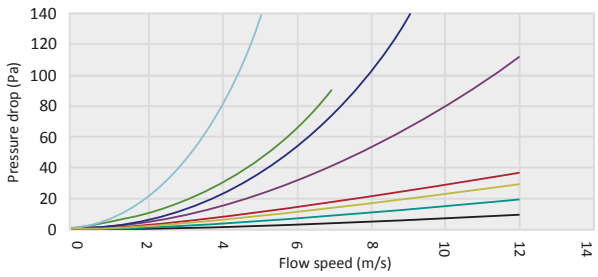


Frame type e

Specifications

Aluminium frame	6063-T6
Aluminium filter material	wire dia 0.28mm open area 66%
Monel wire gasket	BS3075 NA13
Neoprene sponge	ASTM D1056 (84) SCE 42
Beryllium copper	alloy 25 (CA172)
Silicone rubber	Z-R-765 Class 2 Grade 40
Aluminium wire	5056

Air flow pressure drop graph



9520 - EMC Woven mesh ventilation panel

9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb)

9500 - Honeycomb ventilation panel (2 layers 3.2 cell x 3.2 mm thick honeycomb)

9500 - Honeycomb ventilation panel (1 layer 1.6 cell x 6.35 mm thick honeycomb)

9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 12.7 mm thick honeycomb)

9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb + 1 layer **30°** slant 3.2 cell x 6.35 mm thick honeycomb for outdoor use)

9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb + 1 layer **45°** slant 3.2 cell x 6.35 mm thick honeycomb for outdoor use)

9500 - Honeycomb ventilation panel (1 layer 3.2 cell x 6.35 mm thick honeycomb + 1 layer **60°** slant 3.2 cell x 6.35 mm thick honeycomb for outdoor use)

***Please note** : These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.*

Our capabilities

Holland Shielding Systems BV manufacture its range of EMC vent panels using the latest technology. All processes are kept in house, giving us flexibility and total control over quality. We are market leaders for price, delivery, quality and availability. Our fully programmable CNC machines guarantee a good steady quality.

How to order

Most of the 9520 series EMC Woven mesh ventilation panels are made according to customer's specifications. When requesting for a quotation for EMC Woven mesh ventilation panels, the following information should be provided:

Part number	Height (mm)	Width (mm)	Frame type	Drill pattern
9520	100	100	A	DS
	The height in mm of the honeycomb, including the frame	The width in mm of the honeycomb, including the frame	A : Frame A B : Frame B C : Frame C D : Frame D E : Frame E	**DS** : standard drill patern **DC** : custom drill patern