

## 9520 EMC woven mesh ventilation panel

### 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 aluminium 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 provided with an additional EMI Gasket.

**Standard delivery time: less than two weeks.**



*9520 EMC woven mesh ventilation panel*

### 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 moisture 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

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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)

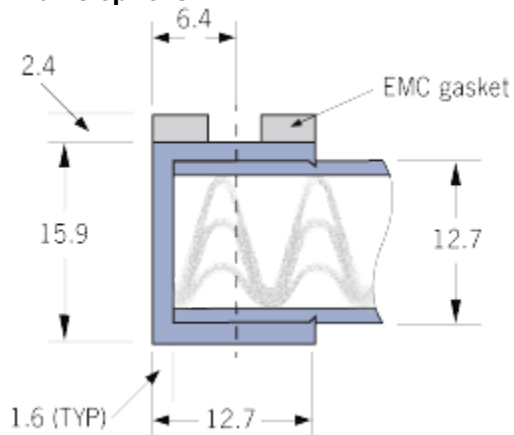
Painted (frame only for dust panels)

Electro less plated Tin or Nickel

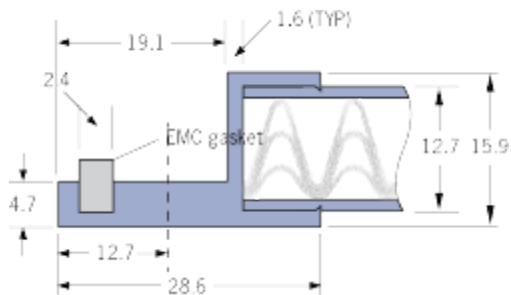
Kempass (RoHS ) Aluminium Passivation process

Trivalent chromium (RoHS compliant) or Hexavalent chromium

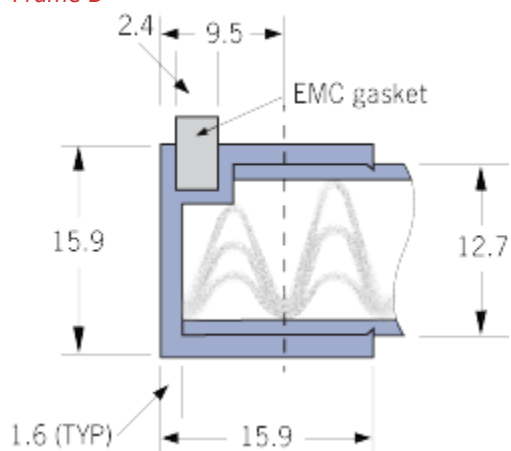
### Frame options



*Frame A*

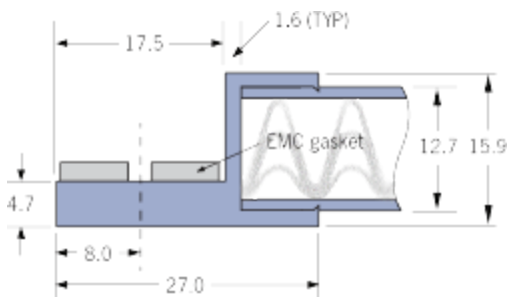


*Frame B*

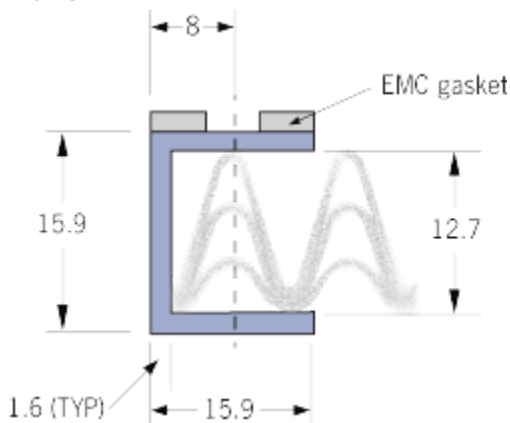


*Frame C*

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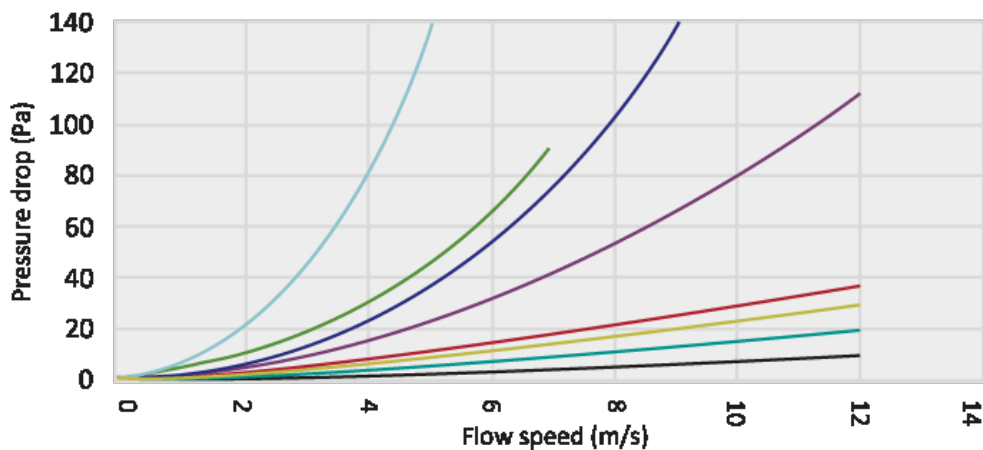


Frame D



Frame E

### 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)