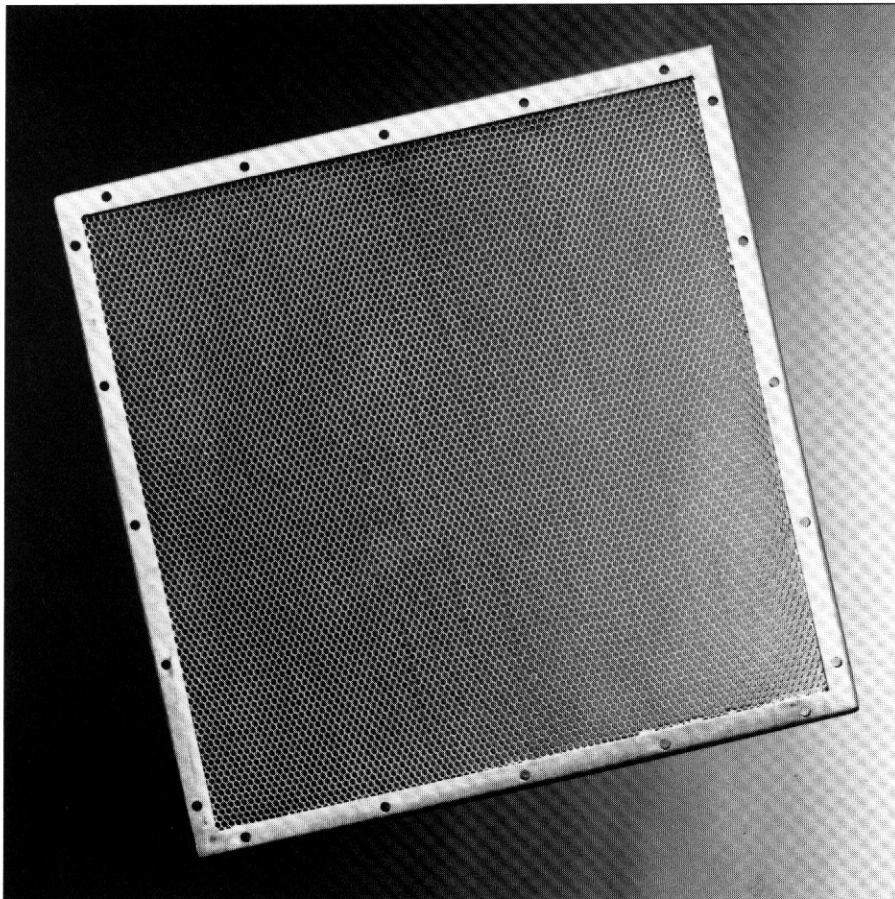


Steel and Brass Honeycomb Shielded Vents



Chomerics' steel honeycomb ventilation panels are designed for maximum H-field shielding effectiveness. They are especially suited for use in military enclosures, communications shelters, and shielded rooms, and should be of interest to designers of EMP-hardened and TEMPEST equipment. In applications where environmental concerns are critical, brass honeycomb shielded vents are recommended. They provide optimum EMI shielding performance *plus* corrosion resistance.

Custom constructed using welded steel or brass frames with steel or brass honeycomb inserts, these panels are offered in a full range of shapes, including circular, in 0.5 in. (12.7 mm) and 1.0 in. (25.4 mm) thicknesses. The straight-through cell design minimizes pressure drop. When desirable, the honeycomb inserts may be stacked for additional thickness. In addition, shielding performance is optimized by specifying that the honeycomb be soldered to the frame. Panel surfaces are finished with cadmium, tin or nickel plating, depending on customer requirements. Stainless steel units are also available.

These panels are provided ready-to install by welding in place (no gasket), or with mounting holes when supplied with integral EMI gasketing. Typically, Ferrex "wire/neoprene COMBO" gasketing is specified, but conductive elastomer gasketing is available upon request.

SPECIFICATIONS

STEEL

Frame: SAE 1010 steel

Honeycomb: SAE 1010 steel, welded or soldered. Foil thickness 0.005 (0.127) and 0.006 (0.152). Cell size 1/8 (3.18), 3/16 (4.76), and 1/4 (6.35).

EMI gasketing: Typically COMBO® gasketing consisting of Ferrex® wire mesh in parallel with neoprene elastomer weather seal. Also available with conductive elastomer EMI gasket.

Finish options: Cadmium plate per QQ-P-416 Type II, Class 2
chromate tin plate per MIL-T-10727 Type 1
nickel plate per MIL-C-2607A.

BRASS

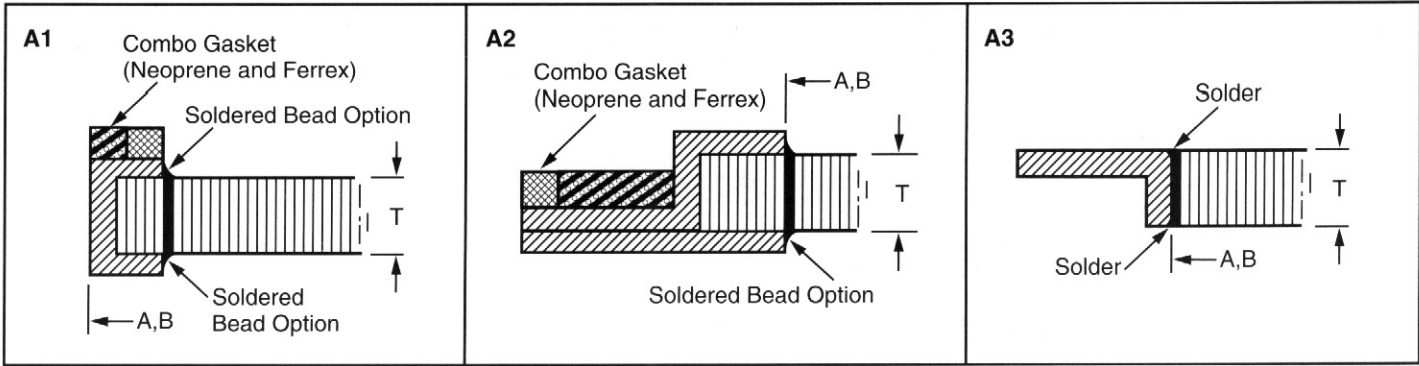
Frame: Brass Alloy 260 1/2 hard

Honeycomb: Brass Alloy 260 1/2 hard per QQ-B-613. Foil thickness 0.005 (0.127) ±0.0005 (0.013). Cell size 1/8 (3.18), 3/16 (4.76), and 1/4 (6.35).

EMI gasketing: Typically COMBO® gasketing consisting of Ferrex® wire mesh in parallel with neoprene elastomer weather seal. Also available with conductive elastomer EMI gasket.

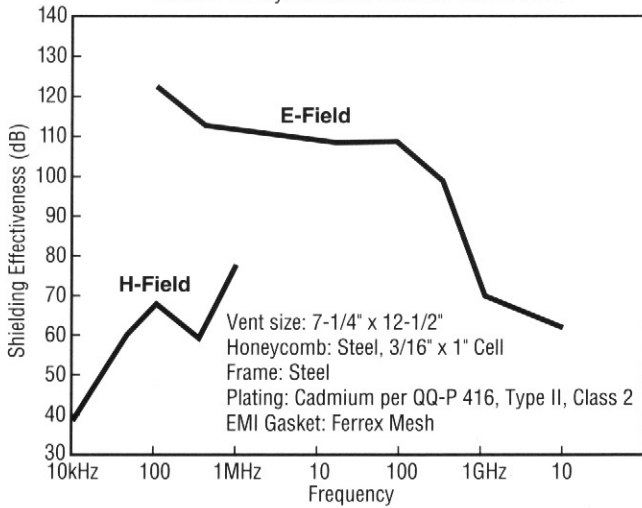
Finish: Copper plate per MIL-C-14550, Class 4, plus tin plate .0003 min. per MIL-T-10727 Type 1.

Figure A. Typical Frame Styles (Others available)



Tolerances A & B ± 0.032 (0.81), T ± 0.032 (0.81)

Figure B. Shielding Effectiveness of Steel Honeycomb Shielded Vent Panel



ORDERING PROCEDURE

Chomerics' steel and brass honeycomb shielded vents are custom fabricated to specified dimensions. Part numbers will be assigned by Chomerics. A detailed drawing should be provided to Chomerics.



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