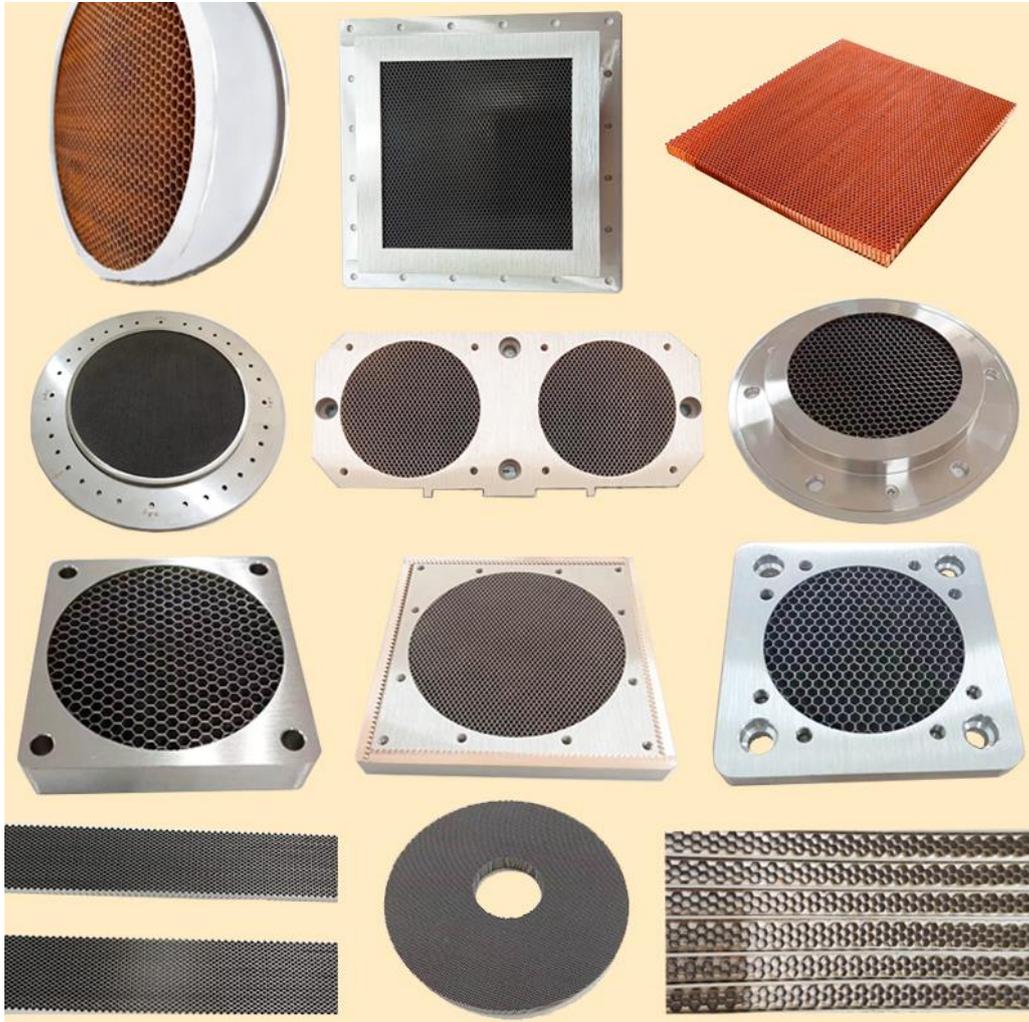




# Metallic Honeycomb Panel Catalogue (A0)

(Passed IATF16949:2016 quality management system and ISO9001:2015 dual certification enterprise)



## EMI Shielding Honeycomb Vent of EMIS has many outstanding performances.

1. EMI Shielding Honeycomb Vent has Excellent Electromagnetic Interference (EMI) Shielding.
2. The honeycomb structure allows for efficient airflow while maintaining strong EMI shielding.
3. Available in various sizes, thicknesses, and honeycomb cell configurations, these vents can be customized to meet specific application requirements.
4. Designed to maintain a low pressure drop, EMI shielded honeycomb vents ensure that airflow is not significantly restricted, promoting efficient cooling and ventilation.
5. EMI shielded honeycomb vents comply with key international standards for electromagnetic compatibility (EMC).
6. We can produce various types products (HX, stainless steel 304, 316, 316L, 321 carbon steel, aluminum) and specifications of electromagnetic shielding ventilation panels, metal honeycombs, air straighteners, wind tunnel honeycombs, honeycomb noise reduction panels , various steam seals, etc.
7. All Products(including Plating)Can Fulfil SGS.ROHS.REACH etc ,Environmental Requirements.

■ Don't hesitate to contact me if have any questions. E-mail: [sales@emis-tech.com](mailto:sales@emis-tech.com)

Updated Date:Nov 1<sup>st</sup>, 2024 (the latest catalog. Visit: [www.emis-tech.com](http://www.emis-tech.com))

## 1. EMI Shielded Honeycomb Vent

**EMI shielded honeycomb vents** are used for EMI / EMC / RF shielded and ventilation. We can make these shielded honeycomb vents according to your drawing pictures or we can also offer designing according to your needs. EMIS Has two important welding technical, high temperature vacuum brazing usually needed for high EMI shielded performance request or military grade honeycomb vents, while spot laser welding suitable for general service. Both of the two welding technical meet ROHS request. Please take note of below usual specifications and choose what kinds of shielded vents you need:

EMIS honeycomb Data Table(mm)	
Material	Carbon steel; Stainless steel; Hastelloy x; Aluminium; Brass/Copper; etc.(as required)
Foil Thickness	0.05; 0.08; 0.1; 0.13; 0.15; 0.2 (as required).
Core Size	0.8; 1.0; 1.2; 1.6; 2.0; 2.5; 3.2; 4.2; 4.8; 5.0; 5.2; 6.4; 8; 10; 12.6; 15; 16; 20; 30 etc.
Outer dimensions	Customizing.
Sheet thickness	Customizing.
Shape	Round; Rectangle; Ring; Cylinder; Ellipse; Irregular shape (as drawing).
Honeycomb direction	Straight; Slant.
Welding Technical	High temperature vacuum brazing, Spot welding.
Surface treatment	Electroless nickel plating; White oxidation; Tin plating; Paint Brush; Sandblast.
Gasket	Neoprene sponge and Monel wire mesh gaskets; Finger gaskets etc.
Frame	"L" type; "C" Type; "H" Type; Irregular frame or Customizing.
Package	Carton/Plywood + Anti-collision foam board (as needed).

**Note: For special materials and non-standard structural shapes, customization is supported. Please contact our sales manager. The following are some pictures of our shielded honeycomb products.**

Round Brass Honeycomb Panel



Square Brass Honeycomb Panel



Aluminium honeycomb air vent



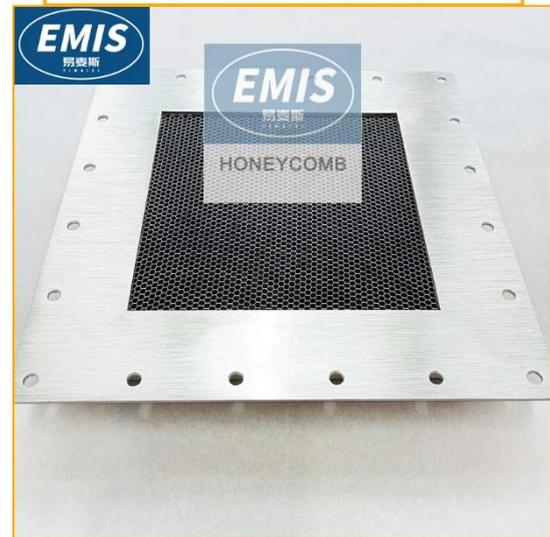
EMI dust panel



Honeycomb vent



White oxidation honeycomb reverse



White oxidation honeycomb front



Aluminium honeycomb 1



Aluminium honeycomb 2



Aluminium honeycomb 3



300mm-300mm shielded vent



waveguide window



EMC shielded honeycomb ventilation



EMC shielding honeycomb vent



High temperature vacuum brazing honeycombs



High temperature vacuum brazing shielded vent



RF shielded honeycomb



stainless steel honeycomb for fan



waveguide window



3.2mm honeycomb vent



3.2mm honeycomb ventilation



EMI shielded vent



Honeycomb Air vent



Honeycomb ventilation panel



Shielded air vent for fan



Spot Welding Honeycombs



## 2. Air Flow Straightener

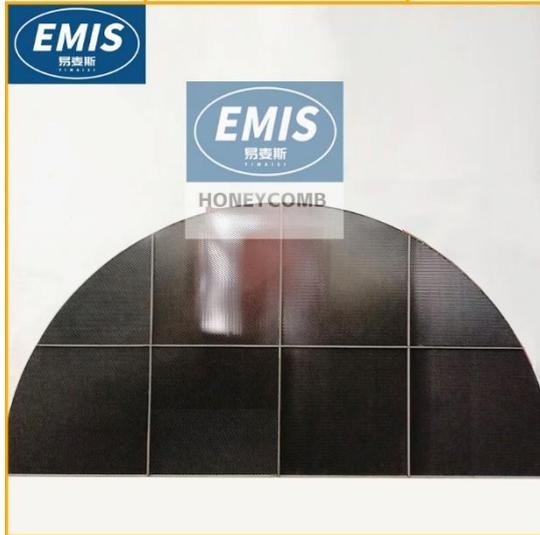
**EMIS Honeycomb straightener** is for Wind tunnel test or especially used as for flow field testing and analysis of cutting-edge technology innovation. Hengshi has developed a metal honeycomb that meets international advanced technology and quality requirements. The flow field is straight and uniform and can meet the characteristics of different flow field flow rates. It has been used in various fields such as engine testing, aircraft testing, and automobile testing by wind tunnels, water tunnel design and manufacturing companies and research institutions at home and abroad. Please take note of below specification for ordering:

EMIS honeycomb Data Table(mm)	
Material	304 stainless steel; 316L or customizing
Foil Thickness	0.13; 0.15; 0.2 (as required)
Core Size	4.8; 5.0; 5.2; 6.4; 8; 10; 12.6; 15; 16; 20; 30 ect. (as required)
Outer dimensions	Customizing
Sheet thickness	Customizing
Shape	Round,square, rectangle;irregular shape; (as drawing)
Honeycomb direction	Straight
Welding Technical	High temperature vacuum brazing, spot welding
Surface treatment	Paint, Brush, or none
Frame	"L" type, "H" type or customizing
Package	Carton/plywood + anti-collision foam board (as needed)

**Note: For special materials and non-standard structural shapes, customization is supported. Please contact our sales manager. The following are some pictures of our shielded honeycomb products.**



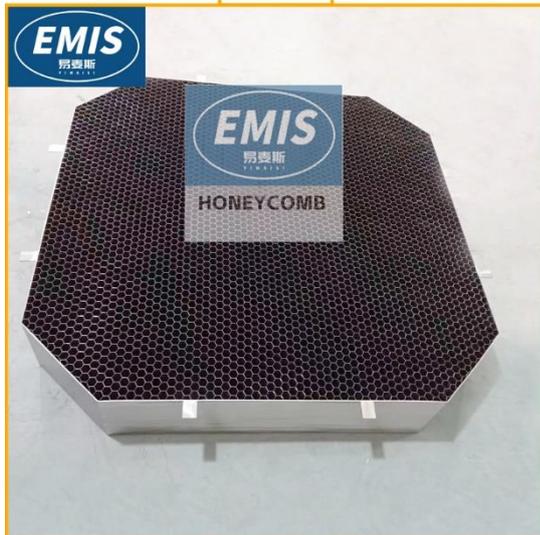
HS D3000-12.6mm



HS6.4mm



SSD10



Air flow straightner 1



Air flow straightner 2



Air flow straightner 4



### 3. Metal Honeycomb Core

EMIS accept customizing with below specification **metal honeycomb cores**, they usually used for EMI/EMC/RF shielding, air ventilation, flow straightener, honeycomb sealed etc. High temperature vacuum brazing and laser spot welding can meet your different needs, please take note of below the specification for your reference and design:

EMIS honeycomb Data Table(mm)	
Material	Carbon steel; stainless steel;Hastelloy x;Aluminium; Brass/Copper; ect.(as required)
Foil Thickness	0.05; 0.08; 0.1; 0.13; 0.15; 0.2 (as required)
Core Size	0.8; 1.0; 1.2; 1.6; 2.0; 2.5; 3.2; 4.2; 4.8; 5.0; 5.2; 6.4; 8; 10; 12.6; 15; 16; 20; 30 ect. (as required)
Outer dimensions	customizing
Sheet thickness	customizing
Shape	Round; rectangle;Ring;Cylinder;Ellipse;irregular shape; (as drawing)
Honeycomb direction	Straight; Slant
Welding Technical	High temperature vacuum brazing, spot welding
Surface treatment	Electroless nickel plating; white oxidation;Tin plating; paint, Brush; sandblast;
Package	carton/plywood + anti-collision foam board (as needed)

**Note: For special materials and non-standard structural shapes, customization is supported. Please contact our sales manager. The following are some pictures of our shielded honeycomb products.**

0.8mm honeycomb



Laser welding honeycomb



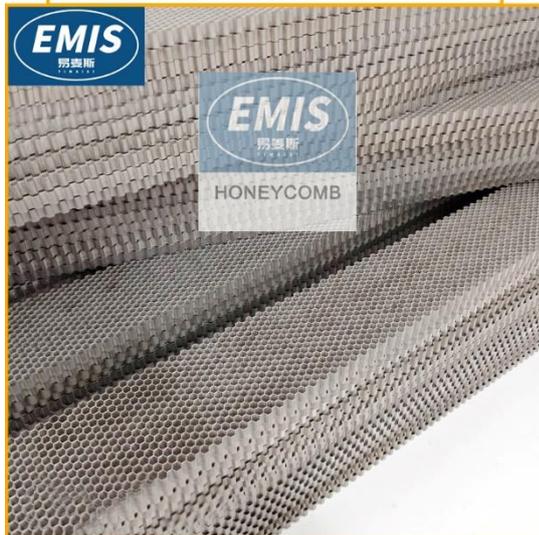
Hastelloy X 1.6mm honeycomb



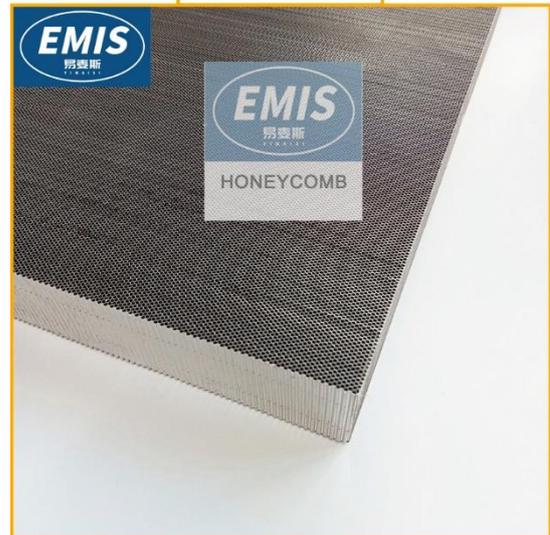
High temperature vacuum brazing  
3.2mm carbon steel honeycomb



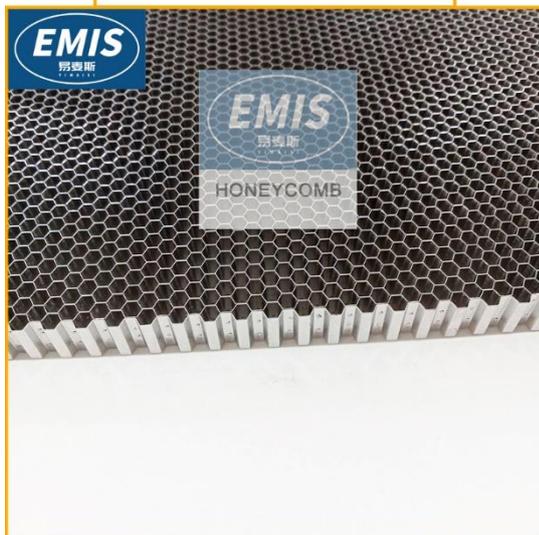
High temperature vacuum brazing  
honeycomb



SS304 0.8mm



Stainless Steel honeycomb



Copper honeycomb



#### 4. Honeycomb Seal

**EMIS Honeycomb Seal** products usually suitable for turbine sealed 、 steam turbine sealed、 Compressor and so on. Honeycomb seals are machined with individual chambers that create the pressure drop needed to slow leakage. Please take note of below specification for ordering:

EMIS honeycomb Data Table(mm)	
Material	stainless steel;Hastelloy x ect.(as required)
Foil Thickness	0.05; 0.08; 0.1; 0.13; 0.15; 0.2 (as required)
Core Size	0.8; 1.0; 1.2; 1.6; 2.0; 2.5; 3.2; 4.2; 4.8; 5.0; 5.2; 6.4; 8; 10; 15; 20; 30 etc. (as required)
Outer dimensions	customizing
Sheet thickness	customizing
Shape	Round ; rectangle;Ring;Cylinder;Ellipse;irregular shape; (as drawing)
Honeycomb direction	Straight
Welding Technical	High temperature vacuum brazing, spot welding
Backplane	customizing
package	carton/plywood + anti-collision foam board (as needed)

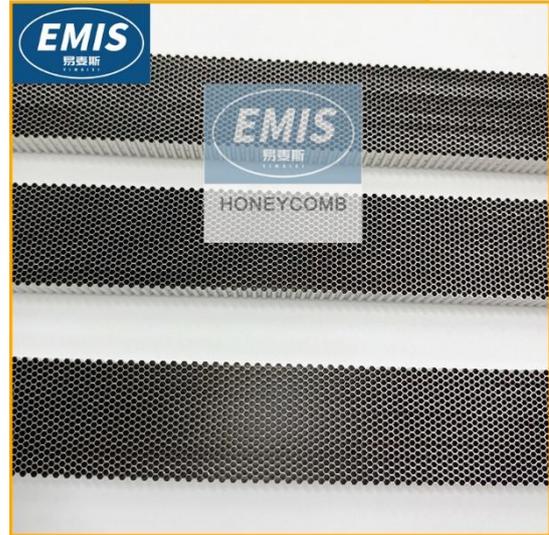
**Note: For special materials and non-standard structural shapes, customization is supported. Please contact our sales manager. The following are some pictures of our shielded honeycomb products.**



Hastelloy X-1.6mm



Hastelloy X-1.6mm02



Hastelloy x-1.6mm03



Honeycomb ring



Honeycomb strips-0.2mm  
brazing tapes



Honeycomb Seal

