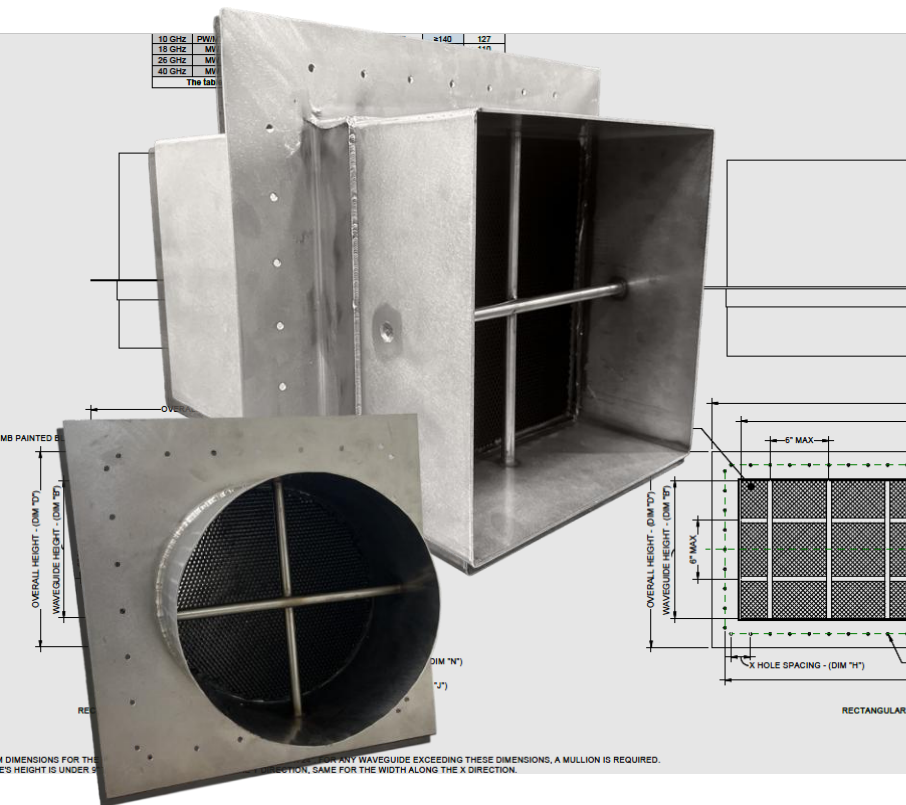


Honeycomb HVAC Waveguides

AeroShield Series

Gaven Industries manufactures honeycomb HVAC waveguides with options that satisfy many EMP/EMI requirements, including MIL STD 188 125, NSA 94 106, and NSA 73 2A, while maintaining secure HVAC airflow and consistent shielding performance in critical facilities, SCIF environments, government buildings, and other high-security applications.



TECHNICAL SPECIFICATIONS:

- Shielding: Measured attenuation under H-Field, E-Field, and Plane Wave conditions.
- Performance: Shielding Effectiveness >100db from 100KHz to 25 GHz
- Airflow: Optimized for consistent performance low pressure drop
- Compliance: ICD 705, MIL-STD 188-125, NSA 94-106, NSA 73-2A
- Frame Materials: Carbon steel, brass, stainless, aluminum
- Core Materials: Brass, steel, or aluminum honeycomb
- Cell Sizes: 1/8" x 1", 1/8" x 1/2", 3/16" x 1"
- Flange Widths: 1", 1.5", 2", 2.5", 3", Custom
- Construction: Security Manbars / Duct Sleeve / Fire Damper options available

APPLICATIONS:

- MRI Rooms/Medical Facilities
- SCIF Facilities
- Data Centers
- Military Installations
- Secure Government Buildings
- Test / Research / Laboratories

1 READY TO INSTALL

Designed for easy and efficient installation. Available in angle frame, ducted, and ducted with secure "man bars" configurations to meet your specific mounting requirements.

2 CUSTOMIZABLE SOLUTIONS

Models are available in various sizes, materials, and versatile mounting options. Frame materials include carbon steel, brass, aluminum, and durable stainless steel with multiple flange width options.

3 OPTIMIZED AIRFLOW

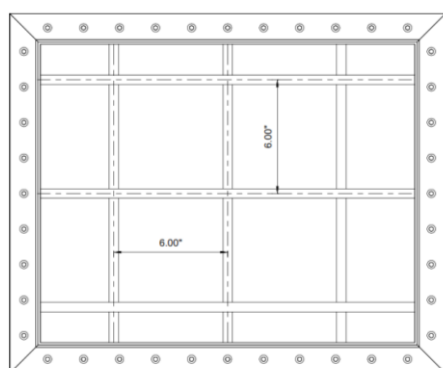
Maintains consistent airflow while preserving shielding performance. Engineered to attenuate electromagnetic and radio frequency interference without compromising ventilation requirements.

Shielding Effectiveness

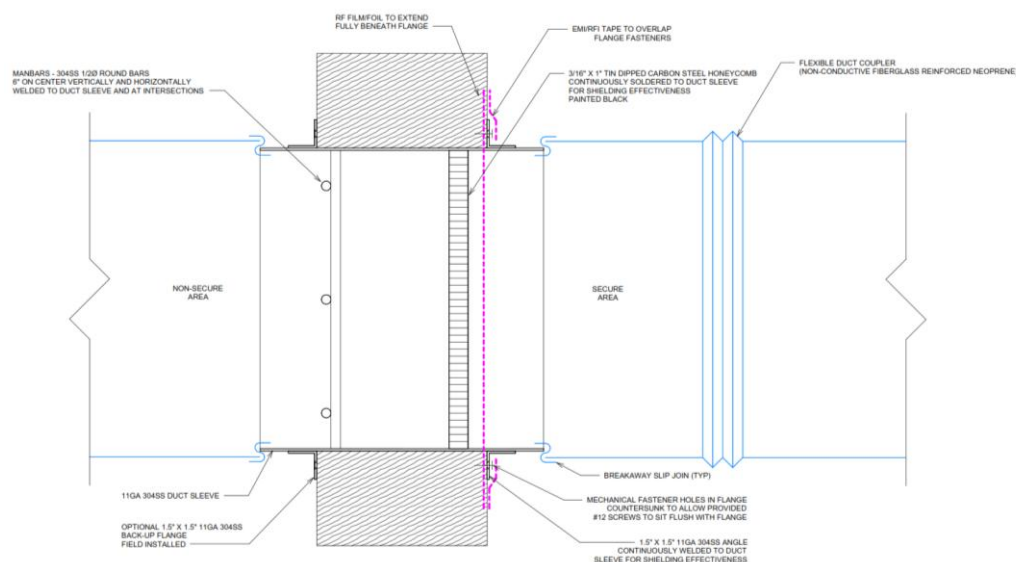
SHIELDING EFFECTIVENESS PERFORMANCE (dB)							
HONEYCOMB CELL SIZE X CELL DEPTH		3/16" x 1"	3/16" x 1"	1/8" x 1"	1/8" x 1"	1/8" x 1/2"	1/8" x 1/2"
FREQUENCY	FIELD	Brass	Steel	Brass	Steel	Brass	Steel
1 kHz	H	18	27	66	28	14	18
10 kHz	H	50	72	86	80	39	54
100 kHz	H	98	109	≥125	113	99	99
1 MHz	H	118	118	—	118	≥118	118
1 kHz	E	110	110	≥140	110	≥110	110
10 kHz	E	118	118	130	118	≥118	118
100 kHz	E	122	122	122	122	≥122	122
1 MHz	E	124	124	≥132	124	124	124
10 MHz	E	124	124	130	124	124	124
100 MHz	PW	115	115	130	115	115	115
400 MHz	PW	118	120	130	130	122	122
1 GHz	PW	106	106	≥120	106	106	106
10 GHz	PW/MW	127	127	≥140	127	127	122
18 GHz	MW	110	110	≥150	110	110	110
26 GHz	MW	103	103	≥150	115	103	110
40 GHz	MW	69	69	≥140	112	79	66

Note: The table above presents expected shielding effectiveness values for honeycomb waveguides as a function of frequency, field type, and waveguide material (steel or brass).

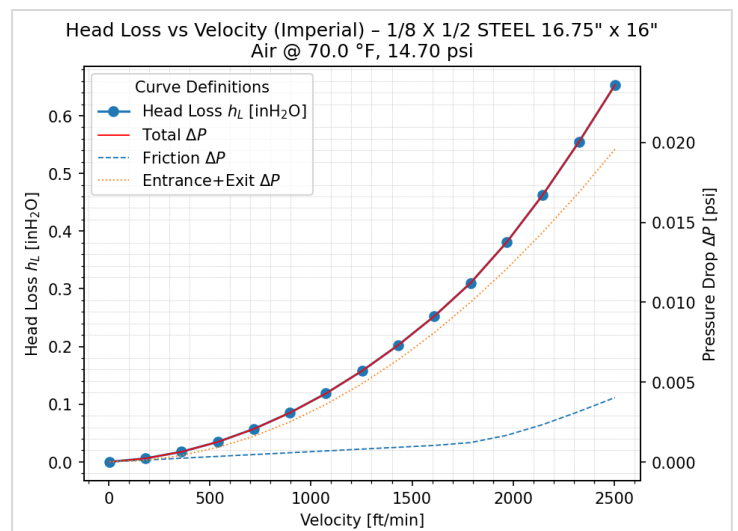
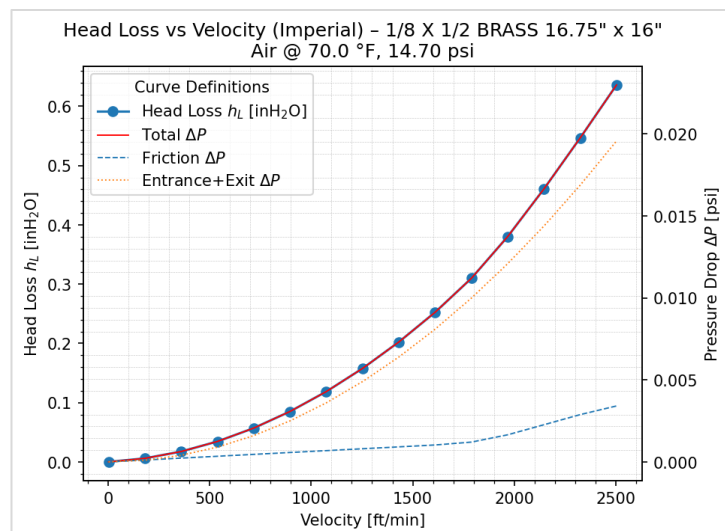
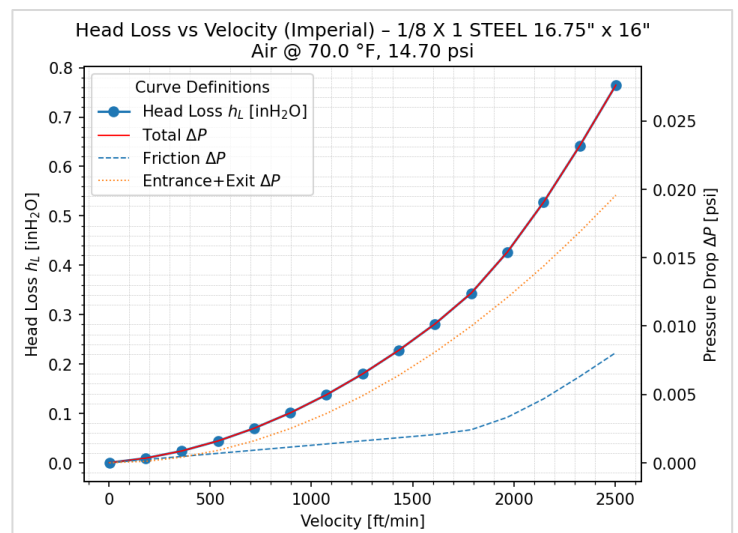
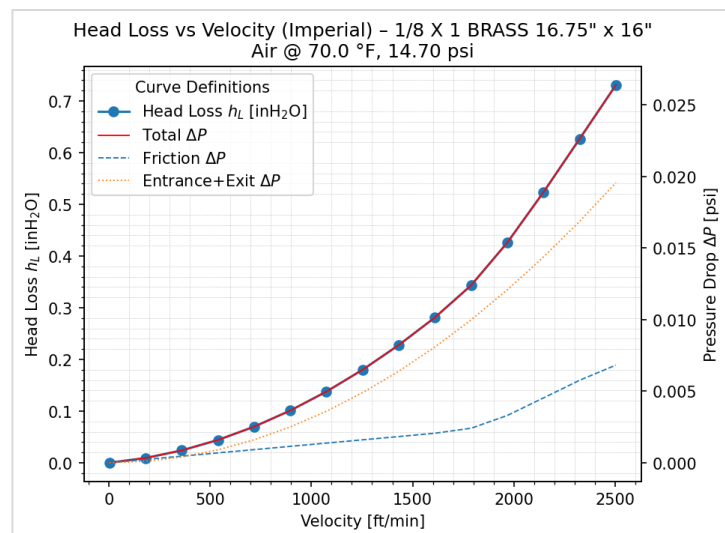
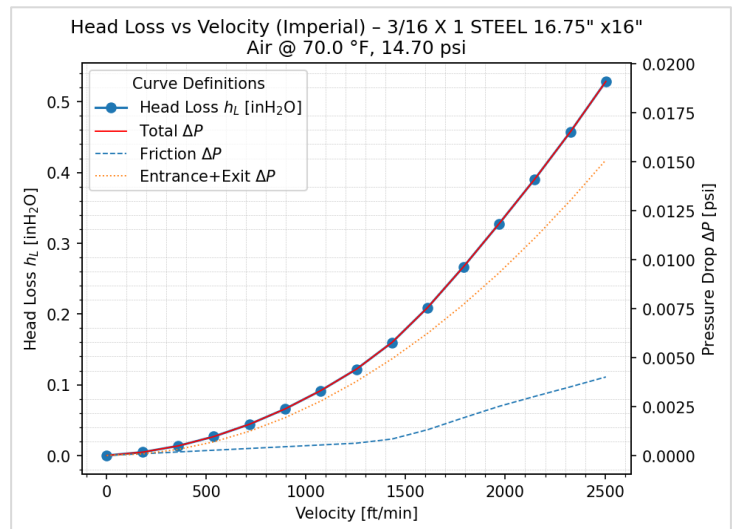
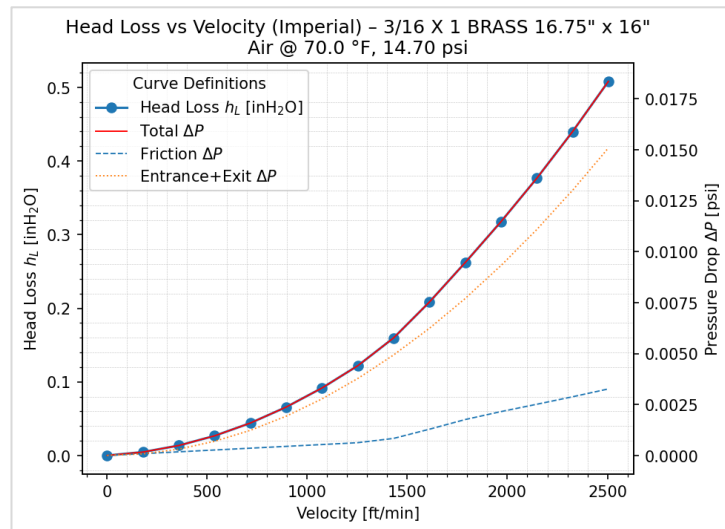
Waveguide Detail



MANBAR CONFIGURATION

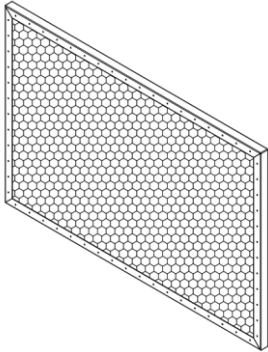


Airflow Characteristics

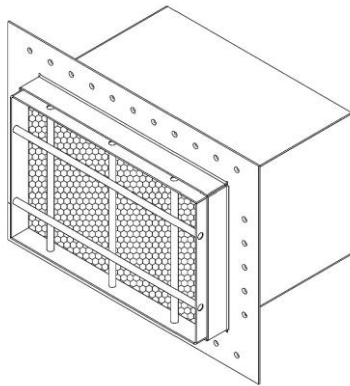


Standard Mounting Profiles + Custom

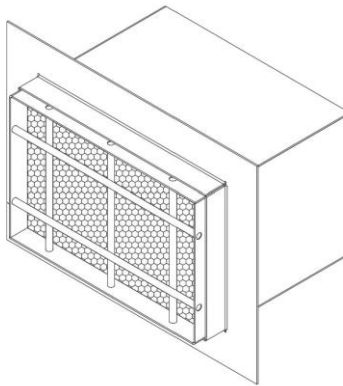
**Picture Frame
Surface Mount**



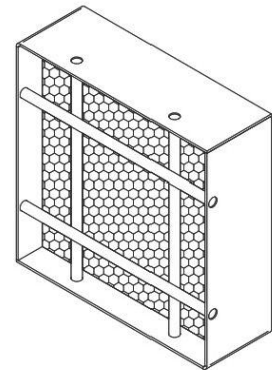
**Flanged Surface
Mount**



**High-Performance
Welded Flange**



Slide In Duct



Don't see your profile? Ask us, and we'll customize to your requirements.

Waveguide Part Number Configuration

