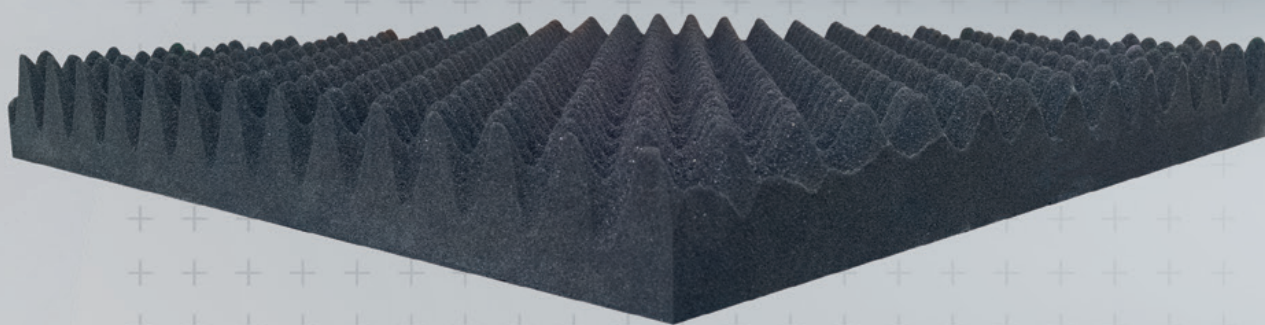


+
AEC SERIES

Convoluted Absorbers



AEC-3

SOLUTION FOR

- RCS Chambers
- High Frequency Test Chambers
- Standards: NRL, ISO, DIN

MAIN FEATURES

- High Reflectivity Performance
- Low Forward Scattering Characteristics

PRODUCT CONFIGURATION

Shape

- Convoluted

Frequency band

- From 3 GHz to 40 GHz and higher

Standard base size

- 2' x 2' (60.96 cm x 60.96 cm)

Height

- 1.5" to 4" (3.8 cm to 10.2 cm)

Operating conditions

- Temperature: 70°F +/-5° (21°C +/-3°)
- Relative Humidity: 50% RH +/- 10%

Indoor/outdoor

- Indoor

+ Description

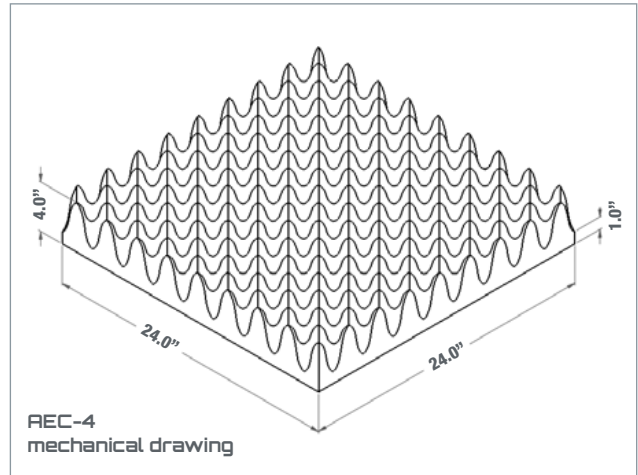
AEMI offers Broadband Convolved absorbers that are manufactured from a light weight polyurethane foam impregnated with a carbon mixture including fire retardants. The front surface is rippled, providing a good match to the impinging wavefront. The coating of these absorbers does not affect the RF performances.

+ Exceptional absorption characteristics

The convoluted design, when properly loaded, exhibits exceptional absorption characteristics in the millimeter range, especially at wide angles of incidence. The convoluted material has properties desirable for applications requiring high reflectivity performance in conjunction with low forward scattering characteristics.



Increase durability & lifespan by adding our rubberized coating!



ORDERING CODE

AEC-X, where X designates absorber height in inches

Specifications

		AEC-1.5	AEC-3	AEC-4
Height	in	1.5	3.0	4.0
	cm	3.8	7.6	10.2
Absorption @ Normal Incidence	@ 3.0 GHz		25	25
	@ 6.0 GHz	20	25	30
	@ 10.0 GHz	30	35	40
	@ 15.0 GHz	30	40	40
	@ 18.0 GHz	30	40	40
	@ 40.0 GHz	35	40	40
Weight	lbs/pc.	1	2	2.75
	kg/pc.	0.5	1	1.2
Max Power Handling information		0.775 kW/m ² continuous and 1.5 kW/m ² pulsed		

