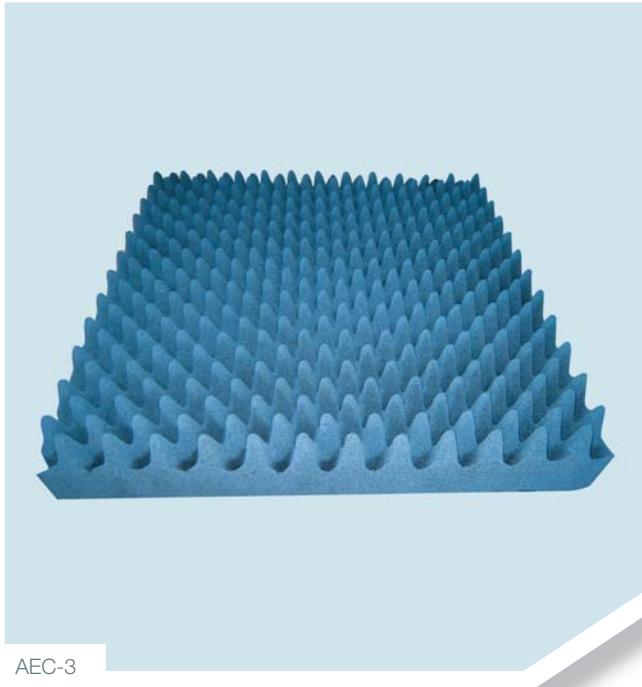


# Convolutioned Absorbers - AEC Series



## ➤ Applications:

- **RCS & antenna measurement chambers in the microwave & millimeter wave region**

## ➤ Key features:

- **Excellent attenuation properties**
- **Good absorption characteristics**

## ➤ Shape:

- **Convolutioned**

## ➤ Frequency band:

- **From 3 GHz to 30 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 +/- 10° (21° C +/- 3°)**
- **Relative humidity: 55 % RH +/- 15 %**

## ➤ Indoor/outdoor:

- **Indoor**

## ➤ Related certifications:

- **NRL 8093 – 1, 2, 3**

## ➤ Ordering code:

- **AEC-XX, where XX designates absorber height in inches**

## 1/ Description

AEMI offers Broadband Convolved absorbers that are manufactured from lightweight urethane foam impregnated with a dielectric material.

The front surface is rippled, providing a good match to the impinging wavefront.

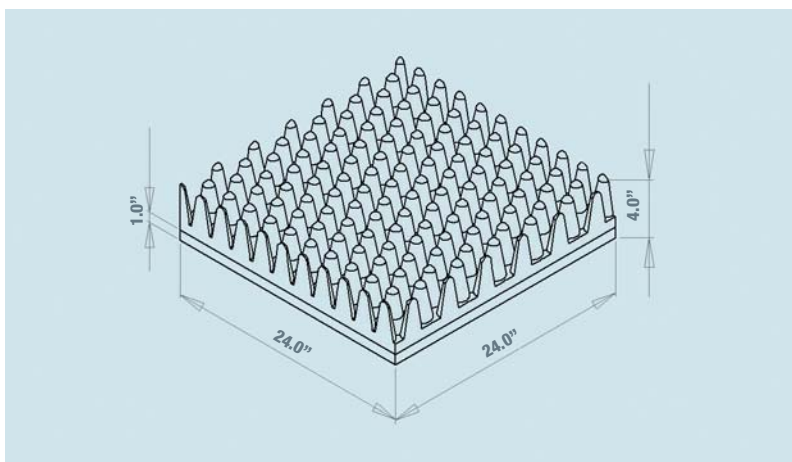
## 2/ Exceptional absorption characteristics

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.

## 3/ 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		20	25
	@ 6.0 GHz	20	20	30
	@ 10.0 GHz	30	30	40
	@ 15.0 GHz	35	35	45
	@ 30.0 GHz	45	45	50
Weight	lbs/pc.	1	2	2.75
	kg/pc.	0.5	1	1.2

AEC-4 mechanical drawing



**Increase durability & lifespan by adding our rubberized coating!**

For more information, see page 32