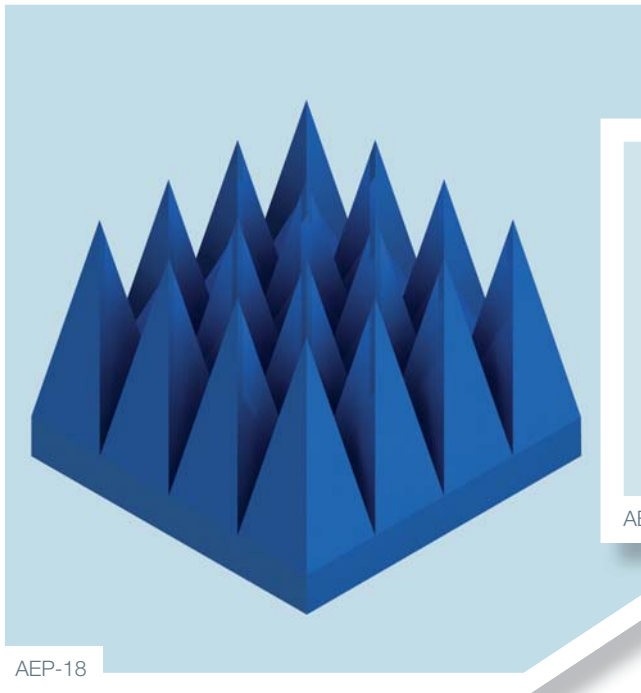


# Pyramidal Absorbers - AEP Series



## Applications:

- All chamber types: aerospace & defense, telecom, automotive, academic & research institutes

## Key features:

- Excellent absorption over a broad frequency range

## Shape:

- Conventional pyramid: AEP-4 to AEP-60
- Twisted pyramid: AEP-36 to AEP-96, except AEP-60

## Frequency band:

- From 30 MHz to 18 GHz

## Standard base size:

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

## Height:

- 4" to 96" (10.2 cm to 243.8 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:

- AEP-XX, where XX designates absorber height in inches

## 1/ Description

Broadband pyramidal absorber is manufactured in two basic geometries, depending on size and performance requirements:

- Conventional right pyramid
- Twisted pyramid

The AEP-4 to AEP-60 absorbers are a conventional pyramid with a square base of uniform thickness, tapered to a point.

## 2/ Increase wide angle performances with Twisted Pyramid

The Twisted Pyramid shape increases wide angle performance and the peak's mechanical support.

The AEP-72 to AEP-96 absorbers are based on a unique geometry that has the peak twisted at 45 degrees, creating alternate peaks and valleys, which increases performance and reduces mismatch at the base transition. This twisted configuration is also available in AEP-36, AEP-48 and AEP-60 upon request.



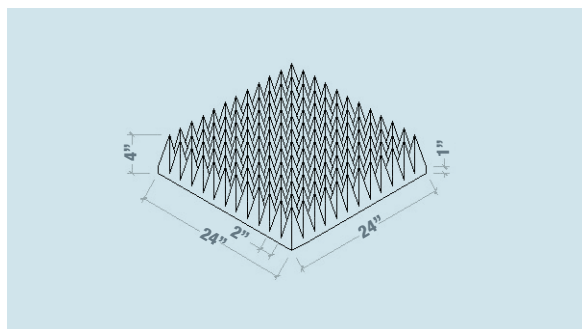
**Increase durability & lifespan by adding our rubberized coating!**

For more information, see page 32

## 3/ Specifications

		AEP-4	AEP-6	AEP-8	AEP-12	AEP-18	AEP-24	AEP-36	AEP-48	AEP-60	AEP-72	AEP-96
<b>Geometry</b>	<b>Right/Twisted</b>	R	R	R	R	R	R	R/T	R/T	R	T	T
<b>Height</b>	<b>in</b>	4	6	8	12	18	24	36	48	60	72	96
	<b>cm</b>	10.2	15.2	20.3	30.5	45.7	61	91.4	122	152.4	182.9	243.8
<b>Pyramids/Blocks</b>	<b>per block</b>	144	64	64	36	16	9	4	4	1	1	1
<b>Absorption @ Normal Incidence</b>	<b>@ 30 MHz dB</b>							5	7	8	9	15
	<b>@ 80 MHz dB</b>							12	15	18	20	25
	<b>@ 125 MHz dB</b>							15	28	30	33	35
	<b>@ 250 MHz dB</b>						30	32	35	37	37	40
	<b>@ 500 MHz dB</b>					30	35	37	40	40	43	45
	<b>@ 1.0 GHz dB</b>			30	35	40	40	42	45	47	48	50
	<b>@ 3.0 GHz dB</b>	30	33	37	40	45	45	50	50	50	50	50
	<b>@ 6.0 GHz dB</b>	35	37	45	45	50	50	50	50	50	50	50
	<b>@ 10.0 GHz dB</b>	40	40	50	50	50	50	50	50	50	50	50
	<b>@ 15.0 GHz dB</b>	45	50	50	50	50	50	50	50	50	50	50
<b>@ 18.0 GHz dB</b>	50	50	50	50	50	50	50	50	50	50	50	
<b>Power</b>	<b>Watt/in<sup>2</sup></b>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	<b>Watt/m<sup>2</sup></b>	775	775	775	775	775	775	775	775	775	775	775
<b>Weight</b>	<b>lbs/pc.</b>	2.5	3	4.5	6	9	13.5	18.5	25	30	42	60
	<b>kg/pc.</b>	1.1	1.4	2	2.7	4.1	6.1	8.4	11.3	13.6	19	27.2

AEP-4 mechanical drawing



AEP-48-TW mechanical drawing

