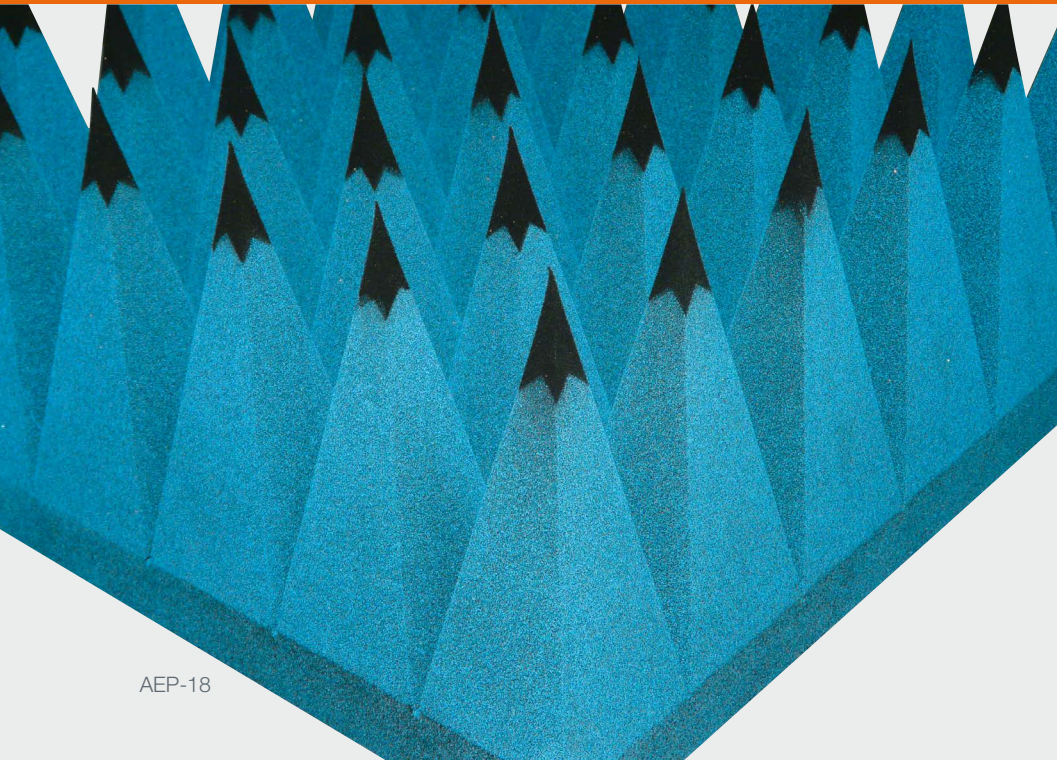


Pyramidal Absorbers - AEP Broadband Series



AEP-18



AEP-96-TW

SOLUTION FOR

- All Types of Anechoic Chambers
- Test Boxes, Fixtures, Outdoor Ranges
- Standards:
 - NRL 8093 – 1, 2, 3
 - ISO 11925-2
 - DIN 4102-B2

Main features

- Excellent RF Absorption
- True Broadband Frequency Performance

Product configuration

Shape

- Conventional pyramid: AEP-4 to AEP-60
- Twisted pyramid: AEP-36 to AEP-96, except AEP-60
- AEP-36 & AEP-48 are in hollow version and are called AEP-36H & AEP-48H
 - Total weight is reduced by 30%
 - Enhanced performances at lower frequencies

Frequency band

- From 30 MHz to 40 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 +/-5° (21°C +/-3°)
- Relative humidity: 55% RH +/-15%

Indoor/outdoor

- Indoor

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.

AEP-36 & AEP-48 are in hollow version and are called AEP-36H & AEP-48H

- Total weight is reduced by 30%
- Enhanced performances at lower frequencies

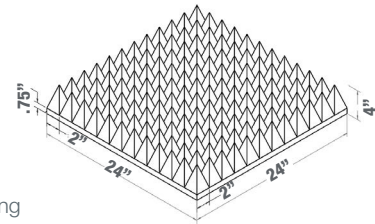
Increase wide angle performances with Twisted Pyramid

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

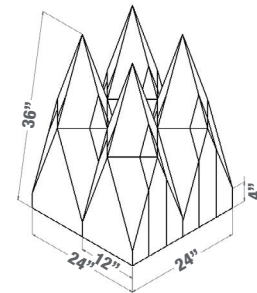
The AEP-72 to AEP-96 absorbers are based on a unique geometry that has the peak twisted at 45 degrees, creating alternate peaks and valleys, which increases performance and reduces mismatch at the base transition. This twisted configuration is also available in AEP-36, AEP-48 and AEP-60 upon request.



Increase durability & lifespan by adding our rubberized coating!



AEP-4
mechanical drawing



AEP-36-TW
mechanical drawing

ORDERING CODE

- **AEP-XX**, where **XX** designates absorber height in inches for right pyramid configuration.
- **AEP-XX TW** to designate Twisted configuration.
- **AEPT-XX** for a 6 in truncated absorbers where **XX** designates the final absorber height.
- **AEP-XX** for the hollow version (AEP-36H & AEP-48H)

Specifications

		AEP-4	AEP-6	AEP-8	AEP-12	AEP-18	AEP-24	AEP-26	AEP-36	AEP-48	AEP-60	AEP-72	AEP-96
Geometry	Right/Twisted	R	R	R	R	R	R	R	R/T	R/T	R	T	T
Height	in	4	6	8	12	18	24	26	36	48	60	72	96
	cm	10.2	15.2	20.3	30.5	45.7	61	66	91.4	122	152.4	182.9	243.8
Pyramids/Blocks	per block	144	144	64	36	16	9	9	4	4	1	1	1
Absorption @ Normal Incidence	@ 30 MHz								5	7	8	9	15
	@ 80 MHz							6	12	15	18	20	25
	@ 125 MHz							10	15	28	30	33	35
	@ 250 MHz						30	30	32	35	37	37	40
	@ 500 MHz					30	35	35	37	40	40	43	45
	@ 1.0 GHz			30	35	40	40	40	42	45	47	48	50
	@ 3.0 GHz	30	33	37	40	45	45	50	50	50	50	50	50
	@ 6.0 GHz	35	37	45	45	50	50	50	50	50	50	50	50
	@ 10.0 GHz	40	40	50	50	50	50	50	50	50	50	50	50
	@ 15.0 GHz	45	50	50	50	50	50	50	50	50	50	50	50
@ 18.0 GHz	50	50	50	50	50	50	50	50	50	50	50	50	
@ 40.0 GHz	50	50	50	50	50	50	50	50	50	50	50	50	
Max Power Handling	Watt/in ²	1	1	1	1	1	1	1	1	1	1	1	1
	Watt/m ²	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550	1550
Weight	lbs/pc.	2.5	3	4.5	6	9	13.5	15	18.5	25	30	42	60
	kg/pc.	1.1	1.4	2	2.7	4.1	6.1	6.8	8.4	11.3	13.6	19	27.2



Contact your local sales representative for more information
www.mvg-world.com/absorbers
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