

Wedge Absorbers - AEW Series



➤ Applications:

- Rectangular, tapered, shaped wall and custom chambers
- Compact ranges

➤ Key features:

- Direct energy in a given path
- Polarization sensitive

➤ Shape:

- Wedge

➤ Frequency band:

- From 80 MHz to 18 GHz

➤ Standard base size:

- 2' x 2' (60.96 cm x 60.96 cm)
- 2' x 4' (60.96 cm x 121.92 cm)

➤ Height:

- 4" to 48" (10.2 cm to 121.9 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:

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

1/ Description

AEMI manufactures a full line of wedge materials to complement our pyramidal absorbers. The wedge anechoic performance matches those of the pyramids, except that they are polarization sensitive.

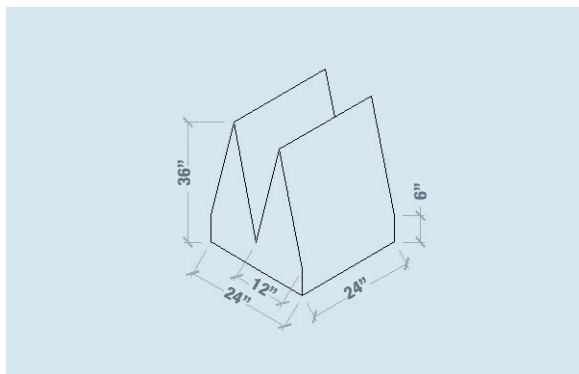
These materials are used to direct energy in a given path so that it can be efficiently absorbed by large, high performance materials.

2/ Specifications

		AEW-4	AEW-6	AEW-8	AEW-12	AEW-18	AEW-24	AEW-36	AEW-48
Height	in	4	6	8	12	18	24	36	48
	cm	10.2	15.2	20.3	30.5	45.7	61	91.4	122
Pyramids/Blocks	per block	12	8	8	6	4	3	2	2
Absorption @ Normal Incidence	@ 125 MHz dB								20
	@ 250 MHz dB						20	22	27
	@ 500 MHz dB					21	23	27	32
	@ 1.0 GHz dB			23	24	26	29	32	37
	@ 3.0 GHz dB	27	30	34	37	42	42	47	47
	@ 6.0 GHz dB	32	34	42	42	47	47	47	47
	@ 10.0 GHz dB	37	37	47	47	47	47	47	47
	@ 15.0 GHz dB	42	47	47	47	47	47	47	47
	@ 18.0 GHz dB	47	47	47	47	47	47	47	47
Power	Watt/in²	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Watt/m²	775	775	775	775	775	775	775	775
Weight	lbs/pc.	2.5	4.5	6	8	12	16	25	31
	kg/pc.	1.1	2	2.7	3.6	5.4	7.3	11.3	14

Note: Other frequencies are also available.

AEW-36 mechanical drawing



Increase durability & lifespan by adding rubberized coating!

For more information, see page 32