

Broadband Pyramidal Absorber

AEP Series

The broadband pyramidal absorber is manufactured in two basic geometrics, depending upon size and performance requirements; Conventional right pyramid and twisted pyramid.

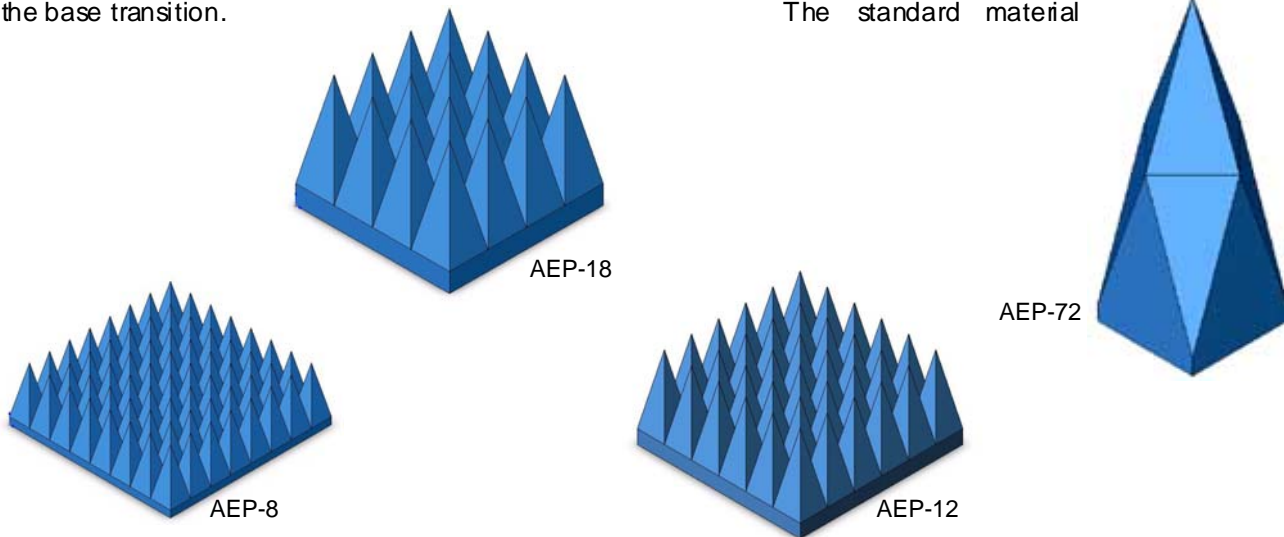
The AEP-4 to AEP-48 absorbing materials are based upon a conventional pyramid having a square base with a uniform base thickness, tapered to a point.

The AEP-72 to AEP-96 absorbing materials are based upon a unique geometry with the peak twisted 45 degrees so that there are alternate peaks and valleys, increasing the performance and reducing the mismatch at the base transition.

This unique feature increases wide angle performance as well as increasing the mechanical support of the peak. This product configuration is also available in 36" and 48" sizes upon request.

The fabrication process differs with each of the two geometrics. Both procedures have been established to ensure that complete impregnation with the dielectric lossy material and the fire retardant chemicals are achieved.

The standard material



	Thickness in inches	Pyramids /Block	Absorption @ Normal Incidence									Power Watt/in ²	Weight per ft ² . lbs
			@ 125 MHz	@ 250 MHz	@ 500 MHz	@ 1.0 GHz	@ 3.0 GHz	@ 6.0 GHz	@ 10.0 GHz	@ 15.0 GHz	@ 13.0 GHz		
			dB	dB	dB	dB	dB	dB	dB	dB	dB		
AEP-4	4	144					30	35	40	45	50	0.5	1
AEP-6	6	64					33	37	40	50	50	0.5	1
AEP-8	8	64				30	37	45	50	50	50	0.5	1.22
AEP-12	12	36				35	40	45	50	50	50	0.5	2
AEP-18	18	16			30	37	45	50	50	50	50	0.5	3
AEP-24	24	9		30	35	40	45	50	50	50	50	0.5	3.5
AEP-36	36	4		32	37	42	50	50	50	50	50	0.5	6.5
AEP-48	48	4	28	35	40	45	50	50	50	50	50	0.5	7.5
AEP-72	72	1	33	37	43	48	50	50	50	50	50	0.5	12
AEP-96	96	1	35	40	45	50	50	50	50	50	50	0.5	15