



# Perseus Tech. International Corp.

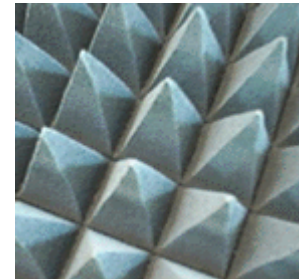
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## FTA Pyramidal Foam Absorbers

### Description:

FTA is a series of solid, pyramidal shaped absorbing materials made from bulk resistive polyurethane foam. It provides the highest broad band, from 80MHz to 60GHz, performance at both normal incidence and wide incidence angles of all known absorbers. While primarily designed for low forward scatter, it offers favorable back scatter properties as well. It is thus well suited for use in all regions of anechoic chambers, or for covering test equipment within anechoic chambers.



FTA is available in a variety of thickness. The chamber designer has the opportunity to choose appropriate versions for specific requirements. The materials are normally provided in 60cm×60cm.

The FTA-36/50 are recommended for use in high quality microwave antenna/RCS test ranges, and also for use in semi-anechoic chambers which only have to meet the 4 dB volumetric NSA requirements from 80 MHz and in which a superior performance at microwave frequencies is required.

If there is space limitation, the FTA also can be provided as hybrid type pyramidal foam absorber for the low frequency absorbing per customer requirement.

### Applications:

- RF Anechoic chambers
- Building material of satellite and handset base station, handset maintenance room for EMI solving.
- Millimeter wave anechoic chambers
- Absorbing collars (shrouds) around the edges of high performance antennas
- Shielding box, electronic equipment



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## (A) Typical Specifications I:

Part No.	Thickness	Frequency Range								
		K BAND	KU BAND	X BAND	C BAND	S BAND	L BAND	500 MHz	350 MHz	250 MHz
FTA-1	1"	26 dB	25 dB	25 dB	20 dB	10 dB	5dB	-	-	-
FTA-3	3"	50 dB	45 dB	40 dB	30 dB	20 dB	10 dB	-	-	-
FTA-5	5"	50 dB	50 dB	45 dB	40 dB	30 dB	25dB	-	-	-
FTA-8	8"	50 dB	50 dB	50 dB	45 dB	40 dB	30 dB	25dB	-	-
FTA-12	12"	50 dB	50 dB	50 dB	45 dB	45 dB	35 dB	25dB	-	-
FTA-18	18"	50 dB	50 dB	50 dB	50 dB	45 dB	40 dB	35 dB	25dB	-
FTA-24	24"	50 dB	50 dB	50 dB	50 dB	45 dB	40 dB	35 dB	30 dB	25dB
FTA-36	36"	50 dB	50 dB	50 dB	50 dB	50 dB	45 dB	40 dB	35 dB	30 dB
FTA-48	48"	50 dB	50 dB	50 dB	50 dB	50 dB	45 dB	40 dB	35 dB	30 dB
FTA-50	50"	50 dB	50 dB	50 dB	50 dB	50 dB	45 dB	40 dB	35 dB	30 dB

## (B) Typical Specifications II:

Part No.	Full Height (cm)	Pyramidal Height (cm)	Pyramidal Width (cm)	Basal Height (cm)	Pyramidal Number	Weight (Kg)
FTA- 1	2.5	1.7	1.7	0.8	900	0.3
FTA- 3	7.6	5.7	3.8	1.9	256	1.0
FTA- 5	12.7	10.1	5.1	2.6	144	1.3
FTA- 8	20.3	15.9	6.8	4.4	81	1.95
FTA-12	30.5	25.4	10.2	5.1	36	2.8
FTA-18	45.7	38.1	15.2	7.6	16	4.0
FTA-24	61	53	20.3	8	9	4.9
FTA-36	92	77	30.5	15	4	9.0
FTA-48	122	102	40	20	1	12.0
FTA-50	128	108	40	20	1	12.8

\*RoHS, REACH compliance