



**PLASTIC COATED POLYURETHANE FOAM BASED  
RF MICROWAVE ABSORBERS FOR OUT-DOOR / CLEAN ROOM APPLICATIONS  
(Microwave Absorbent Material – Pyramidal Type)**

**FU-SE-X-PC PYRAMIDAL OPEN TEST SITE RF MICROWAVE ABSORBERS:**



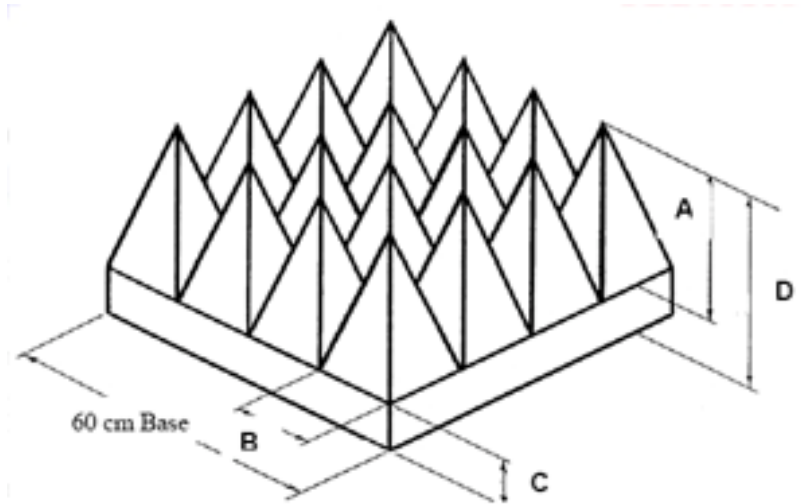
**FU-SE-X-PC** is a plastic coated weatherproof absorber highly suitable for Open Test Sites. Performance of this Class of Absorber is not affected due to water on the surface of pyramid. It is resistant to Outdoor weather condition like sunlight, Rain, Dust etc. Life expectancy of this absorber is greater than 5 Years and it can be enhanced when not in use, when stored under control Environmental condition.

**TYPICAL PERFORMANCE OF PYRAMIDAL ABSORBER:**

Absorber Type	Thickness (Inches )	Reflectivity (dB) for near normal incidence relative to metal surface of same size at different frequency.			
		250 MHz	500 MHz	1 GHz	3 GHz & Higher Frequency
<b>FU-SE-24-PC</b>	24	-20	-35	-40	-45
<b>FU-SE-18-PC</b>	18		-30	-35	-45
<b>FU-SE-12-PC</b>	12			-30	-40

**FEATURES:**

- ❖ Excellent RF performance with weather resistance
- ❖ Absorption over a wide frequency range.
- ❖ Long product life.
- ❖ High performance, up to –40 dB attenuation.
- ❖ These absorbers are supplied with a fire retardant finish
- ❖ Useful for CLEAN Room Conditions



Absorber Type	Pyramid Height, A	Pyramid Width, B	Base Height, C	Total Absorber Height, D	Number of Pyramids per Absorber
<b>FU-SE-24-PC</b>	53 cm	20 cm	8 cm	60 cm	9
<b>FU-SE-18-PC</b>	38 cm	15 cm	8 cm	45 cm	16
<b>FU-SE-12-PC</b>	25 cm	10 cm	5 cm	30 cm	24

Note: Above dimensions are indicative and subject to change for specific application.

#### **MATERIAL PROPERTIES:**

- ❖ Color: As Desired, generally available in RED color.
- ❖ Dimensions: 60 cm X 60 cm
- ❖ Chemical Composition: Fire Retardant Plastic Coated Carbon ferrite impregnated polyurethane foam
- ❖ Maximum service temperature: 90 degree Centigrade
- ❖ Power handling capacity: 0.5 Watt/ Inch<sup>2</sup>
- ❖ Fire Retardency: Passes NRL-8093, USA test 1, 2 & 3 With **Zero Halogen Means**.
- ❖ Our foam absorbers are fire retardant with zero halogen means thereby avoid formation of toxic gases like HCl / HBr and poisonous gases like phosgene.

#### **AREAS OF APPLICATION:**

- ❖ Broadband absorbers suitable for Outdoor measurements.
- ❖ Used in making Moving screens for hiding the areas of maximum reflections.
- ❖ Used for obtaining Quiet Zones in very wide frequency range.