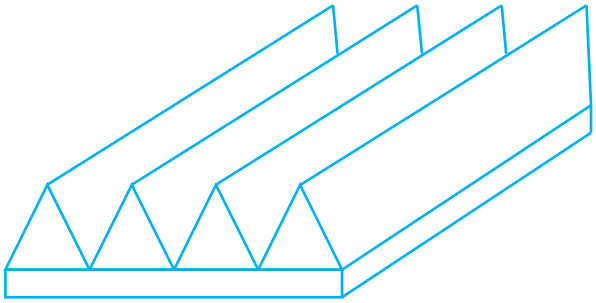
POLYURETHANE FOAM BASED WEDGE MICROWAVE ABSORBERS

(Microwave Absorbent Material – Wedge Type)

FW-SE SERIES OF WEDGE MICROWAVE ABSORBERS:



- FW-SE absorber is a complete range of high performance wedge microwave absorbers having approximated same properties at grazing incidences as our FU-SE Series-Pyramidal Microwave Absorbers at near normal incidences.
- Constructed using low density, flexible foam, impregnated with a carbon black, ferrite formulation to achieve the desired electrical performance.
- At higher angle of incidences backscatter is significantly reduced.
- Available in wide range of thickness and absorbencies.
- Variety of thickness gives the chamber designer the opportunity to choose grades appropriate for specific frequencies and incidence angles.

TYPICAL PERFORMANCE OF WEDGE MICROWAVE ABSORBER:

- Reflection Loss (dB) of wedge type (FW-SE) at normal incidence is 3 dB to 5 dB down in comparison of our pyramidal microwave absorber (FU-SE).

FEATURES:

- Absorption over a wide frequency range.
- Long product life.
- High performance, up to –45 dB reflection loss at grazing incidences.
- These absorbers are supplied with a fire retardant finish.
- **RoHS** Compliant.

MATERIAL PROPERTIES:

- Color: As Desired, generally available in blue color.
- Dimensions: 60 cm X 60 cm.
- Chemical Composition: Carbon ferrite impregnated polyurethane foam.
- Maximum service temperature: 90 degree Centigrade.
- Power handling capacity: 0.5 Watt/in².
- 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 in-door measurements.
- Used in chamber where it is desirable to have the energy guided into a terminating wall, such as in tapered chambers and in compact ranges designed for RCS measurement.
- Used in making Moving screens for hiding the areas of maximum reflections.
- Used for obtaining Quiet Zones in very wide frequency range.