



TECHNICAL BULLETIN 390-9

C-RAM EVA

PYRAMIDAL ABSORBER FOR HIGH POWER, OUTDOOR USE, AND VENTILATION DUCTS

C-RAM EVA is a series of very high performance pyramidal absorbers suitable for exterior usage and capable of handling relatively high power densities. Being a very porous material, C-RAM EVA is used in anechoic chambers to cover air ducts, thereby reducing RF reflections.

C-RAM EVA is made from a very light, open cell foam with large cell size of 15 pores/inch. This large pore size allows rainwater to drain readily, drying quickly after the rain stops. The RF lossy coating on the foam absorber is not affected by repeated exposure to rain. The large open cells permit forced air circulation through the material increasing the power handling capabilities to approximately 10 W/in² of RF power. Without forced air cooling, the material can typically handle 2 W/in².

C-RAM EVA is dimensionally equivalent to the corresponding grades of C-RAM SFC. The reflectivity characteristics are identical to those of C-RAM SFC.

C-RAM EVA is a very resilient material. It stands up well to mechanical abuse and tolerates repeated deformation without tear or cracks.

METHOD OF APPLICATION

C-RAM EVA is readily installed using a contact adhesive such as C-BOND 287, just as C-RAM SFC would be. For installation over air ducts, or

where forced cooling air will be blown through the material, the piece should be cut at least one inch larger than the duct on all sides. The piece is bonded along this edge strip; larger grades may require small patches of Velcro at the center to mate with a Velcro piece attached to the grid work of the duct.

AVAILABILITY

C-RAM EVA is available in versions 4, 6, 8, 12, 18, and 24 inches tall, corresponding in performance and geometry to the equivalent grade of C-RAM SFC.

C-RAM EVA is available in standard base dimensions of 24 in x 24 in (610 x 610 mm). However, custom sizes can be made to accommodate existing air ducts.

The information in this technical bulletin, although believed to be accurate, is not to be taken as a warranty for which Cuming Corporation assumes legal responsibility, nor as permission or recommendation to practice any patented invention without license; it is offered for verification by the customer, who must make the final judgment of suitability for any application.

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