

C-RAM RFA

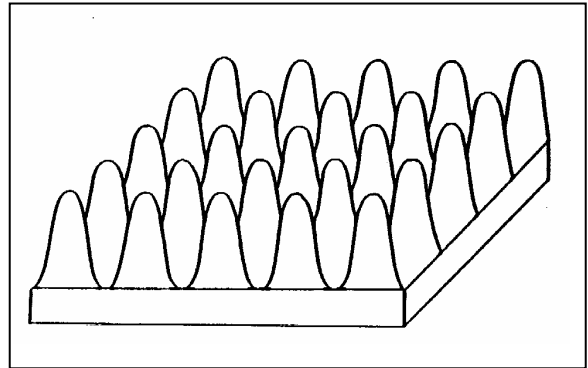
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TECHNICAL BULLETIN 390-12

HIGH PERFORMANCE CONVOLUTED RF ABSORBERS

C-RAM RFA is a similar convoluted absorber available in various thickness grades. It is made from a large-pore open-cell urethane foam (approx 15 pores/inch). This open cell structure makes C-RAM RFA ideal for outdoor applications, where rain can drain quickly through the piece, and residual moisture can evaporate quickly.

For optimum resistance to moisture, C-RAM RFA uses a different fire retardancy mechanism. While it is self-extinguishing, this material is not rated to NRL 8093 standards.



METHOD OF APPLICATION

C-RAMRFA are attached to walls and ceilings using a contact adhesive, such as CAMBOND 934. When bonding over a vent or air duct, the absorber should be cut oversized, and be bonded only around the edges to the wall.

AVAILABILITY

C-RAM RFC and RFA are each available in three thickness grades, as specified in the tables below. Pieces are available in a standard 24 in x 24 in (610 x 610 mm) base size, although other dimensions can be made on special order.

Both materials are generally supplied with a light blue surface coating, but as with C-RAM FAC, when the intended use is above 30 GHz, it is recommended to specify the material unpainted.

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TYPICAL DIMENSIONS AND REFLECTIVITIES OF C-RAM RFA

----- REFLECTIVITY AT FREQ., IN dB -----

| Grade | Height | Weight | 2 GHz | 5 GHz | 10 GHz | 15 GHz | 20 GHz |
|----------------|--------------|--------------|-------|-------|--------|--------|--------|
| RFA-075 | 0.75 in 19mm | 0.5 lb .25kg | | 12 | 15 | 17 | 18 |
| RFA-175 | 1.75 in 45mm | 0.8 lb .35kg | 12 | 18 | 25 | 28 | 30 |
| RFA-375 | 3.75 in 95mm | 1.5 lb .70kg | 25 | 32 | 37 | 40 | 40 |

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