C-RAM RFA

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-RAM RFA 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.
## TYPICAL DIMENSIONS AND REFLECTIVITIES OF C-RAM RFA

<table>
<thead>
<tr>
<th>Grade</th>
<th>Height</th>
<th>Weight</th>
<th>2 GHz</th>
<th>5 GHz</th>
<th>10 GHz</th>
<th>15 GHz</th>
<th>20 GHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>RFA-075</td>
<td>0.75 in</td>
<td>19mm</td>
<td>0.5 lb</td>
<td>.25kg</td>
<td>12</td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>RFA-175</td>
<td>1.75 in</td>
<td>45mm</td>
<td>0.8 lb</td>
<td>.35kg</td>
<td>12</td>
<td>18</td>
<td>25</td>
</tr>
<tr>
<td>RFA-375</td>
<td>3.75 in</td>
<td>95mm</td>
<td>1.5 lb</td>
<td>.70kg</td>
<td>25</td>
<td>32</td>
<td>37</td>
</tr>
</tbody>
</table>

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