Application and Design
The Model C-S/R-HC is a square/rectangular UL Classified ceiling (radiation) damper, butterfly style, tested and specifically approved for specific UL ceiling designs listed below incorporating wood joist and gypsum construction. UL designs specifically approved for this damper are L501, L502, L503, L506, L507, L508, L512, L513, L514, L516, L517, L519, L522, L523, L524, L533, L543, AND ULC M500 Series designs. These dampers provide protection up to 16'' x 12'' (406mm x 305mm) openings. Standard ceiling radiation designs approved to UL 555C standard are not acceptable to be used in designs mentioned above. Refer to UL Fire Resistance Directory for further details.

Standard Construction
Frame: Roll formed. - 22 Ga. Galvanized Steel
Blades: 22 Ga. - Galvanized Steel
Spring: Corrosion resistant steel spring.
Fusible Link: Replaceable 212°F (100°C) standard/165°F(74°C) Available
Round Inlet: 4'', 5'', 6''
Oval Inlet: 6'', 8'', 10''

<table>
<thead>
<tr>
<th>Shape</th>
<th>**Min. Size</th>
<th>**Max. Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rectangular C-S/R-HC</td>
<td>4'' x 6'' (101mm x 152mm)</td>
<td>16'' x 12'' (406mm x 305mm)</td>
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<tr>
<td>Round C-RD-HC</td>
<td>5'' Diameter (127mm)</td>
<td>15'' Diameter (381mm)</td>
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</tbody>
</table>

**Dampers less than 110 sq. in. are shipped without gypsum installed on damper. Gypsum shall be field supplied for damper and ceiling. Dampers greater than 110 sq. in. are shipped with insulation factory installed on blades and box.

Manufacturer’s Recommendations
All moving parts of the damper must be inspected and cycled once the first year and at intervals not greater than every 4 years or in accordance with the latest edition of NFPA 90A, 92A, local codes and the manufacturer. In addition, fuse links shall be removed and inspected for corrosion.

SUGGESTED SPECIFICATION
Ceiling dampers shall be United Enertech Manufacturing models: C-S/R-HC. The dampers shall bear the UL label identifying them to be approved for use in a UL ceiling design LXXX. Dampers shall be listed in the UL Fire Resistance Directory as being approved for use in the submitted ceiling being installed. These ceiling dampers shall be installed per the manufacturer’s installation instructions which were approved by Underwriter’s Laboratories. Approved dampers from other agencies are not permitted for approval on a UL system. Standard ceiling radiation dampers approved for use in placed of hinged door dampers are not acceptable.

Job Name: 
Location: 
Architect: 
Engineer: 
Contractor: 

- MODEL C-S/R-HC
- MODEL C-S/R-HC-A