

# MODEL C/FSR-1

## CEILING DAMPER SQUARE TO ROUND

U.L. 555C CLASSIFIED ASSEMBLIES AND ULC S112.2 LISTED

Approved for 1 - 4 Hour Rated

### Application and Design

The Model C/FSR-1 is a square/rectangular UL Classified ceiling (radiation) damper, fabric blade style, with a round transition mounted to the top side approved for both steel duct and flex duct installations in approved UL ceiling designs that incorporate/show a hinged door damper requiring fire/heat protection where HVAC components penetrate the ceiling membrane. This damper has a low profile design that allows for installation in ceiling with restricted space as well as transitioning from a square neck diffuser to a round duct. The folded blade package allows for maximum free area and lowest pressure drop. These dampers provide protection up to 24" x 24" (610mm x 610mm) openings.

### Standard Construction

- Frame:** Roll formed. - 22 Ga. Galvanized Steel
- Blades:** 22 Ga. - Galvanized Steel  
w/ U.L. Classified insulated fabric blades
- Spring:** Stainless Steel negator
- Fusible Link:** Replaceable 212°F (100°C) standard (others available)

- C/FSR-1: one round transition - (Top)
- C/FSR-2: two round transitions - (Top and Bottom)

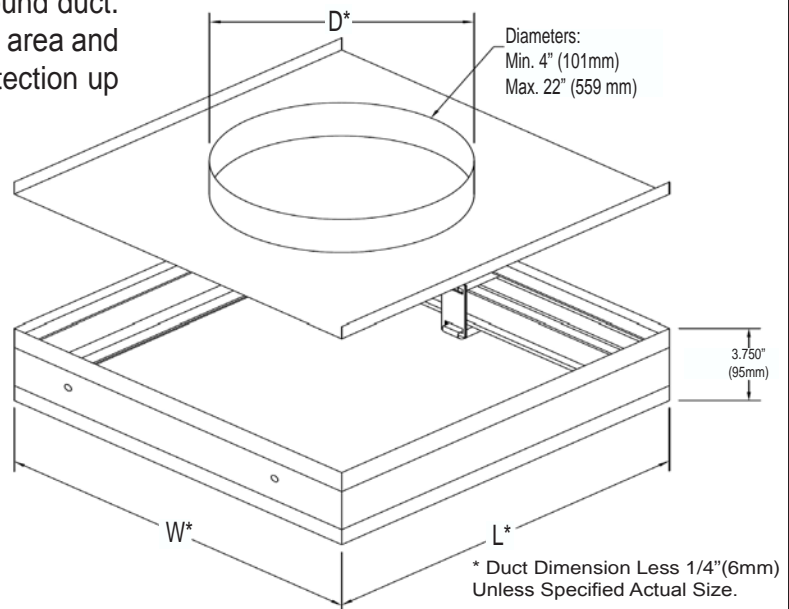
Designed and tested in accordance to standards: UL 555C, ULC S112.2. Labeled and listed by UL/ULC under File #R25411. They meet all the NFPA-90A, IBC Code, and other major code requirements for Ceiling (Radiation) Dampers.

Note: Due to continuing research, UE reserves the right to change specifications without notice.



#### Options:

- CK-2000-1: 1/8" Thick Thermal Blanket (24 X 24)
- CK-2000-1B: 1-1/4" Thick Batt-Mineral Wool Blanket (24 X 24)



| Standard Sizes             |                        |                              |                         |
|----------------------------|------------------------|------------------------------|-------------------------|
| Min. Size                  |                        | Max. Size                    |                         |
| L x W                      | D                      | L x W                        | D                       |
| 6" x 6"<br>(152mm x 152mm) | 4" Diameter<br>(101mm) | 24" x 24"<br>(610mm x 610mm) | 22" Diameter<br>(559mm) |

#### SUGGESTED SPECIFICATION

Square to round ceiling dampers shall be Model C/FSR-1 or C/FSR-2 by United Enertech. Ceiling dampers shall bear the Underwriters' Laboratories label and be rated for both steel duct and flex duct installations. Ceiling dampers shall be of the non-asbestos, curtain-type for maximum free area.

#### 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.

|                  |   |                        |                   |                        |                |                     |                  |
|------------------|---|------------------------|-------------------|------------------------|----------------|---------------------|------------------|
| Job Name:        | <input type="checkbox"/> <b>MODEL C/FSR-1</b><br><input type="checkbox"/> <b>MODEL C/FSR-2</b>  |                        |                   |                        |                |                     |                  |
| Location:        |   |                        |                   |                        |                |                     |                  |
| Architect:       |   |                        |                   |                        |                |                     |                  |
| Engineer:        | <table border="1"> <tr> <td>DRAWN BY:<br/>MAB</td> <td>DATE:<br/>11-07-07</td> <td>REV. DATE:<br/>09-25-08</td> </tr> <tr> <td>REV. NO.:<br/>6</td> <td>APPROVED BY:<br/>SDC</td> <td>DWG. NO.:<br/>D-6</td> </tr> </table> | DRAWN BY:<br>MAB       | DATE:<br>11-07-07 | REV. DATE:<br>09-25-08 | REV. NO.:<br>6 | APPROVED BY:<br>SDC | DWG. NO.:<br>D-6 |
| DRAWN BY:<br>MAB | DATE:<br>11-07-07   | REV. DATE:<br>09-25-08 |                   |                        |                |                     |                  |
| REV. NO.:<br>6   | APPROVED BY:<br>SDC   | DWG. NO.:<br>D-6       |                   |                        |                |                     |                  |
| Contractor:      |   |                        |                   |                        |                |                     |                  |