

(ENGINEERS)
SUBMITTAL DATA
MODEL C-S/R

Ceiling Damper SQUARE AND RECTANGULAR
 U.L.555C CLASSIFIED ASSEMBLIES AND ULC S112.2 LISTED
 Approved for 1 - 4 Hour Rated

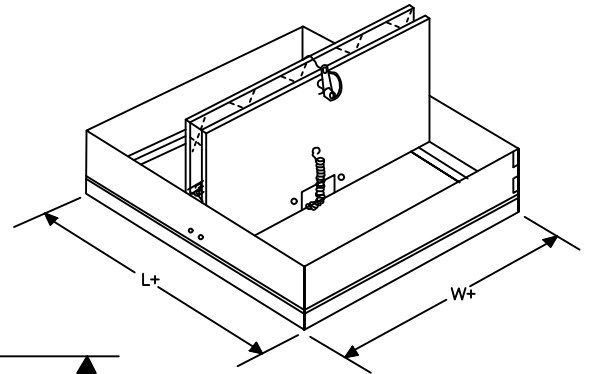
Application and Design

The Model C-S/R (-A) is a square/rectangular, UL classified ceiling (radiation) damper, butterfly style, approved for both steel duct, and ductless installations in approved UL ceiling designs that incorporate/show a hinged door damper requiring fire/heat protection where HVAC components penetrate the ceiling membrane. These dampers provide protection up to 22" x 22" (559mm x 559mm) openings.



Standard Construction

Frame: Roll formed - 22 Ga. - Galvanized Steel
Blades: 22 Ga. - Galvanized Steel, un-insulated 80 sq. in and under with U.L. classified insulation over 80 sq. in.
Springs: Corrosion resistant steel spring
Fusible Link: Replaceable 212°F (100°C) standard (others available)

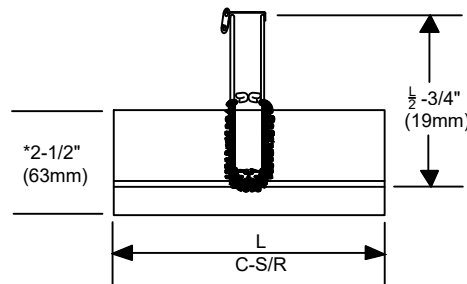


+Duct Dimension less $\frac{1}{8}$ " (3.2mm) unless ordered actual size.

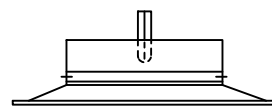
Extended Frame Table *	
Size (D)	Frame Depth (H)
4"-10" (127mm to 254mm)	6-3/8" (162mm)
11"-14" (279mm to 356mm)	8-3/16" (208mm)
15"-22" (381mm to 559mm)	11-3/16" (284mm)

Standard Sizes (duct)	
Min. Size	Max. Size
4" x 6" 101mm x 152mm	22" x 22" 559mm x 559mm

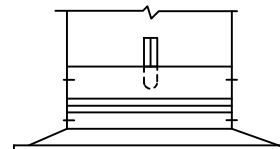
Designed and tested in accordance to standards: UL 555C, ULC S112.2. Labeled and listed by UL/ULC under File# R25411. They meet all the NFPA-90A, IBC Code, and other major code requirements ceiling radiation dampers.



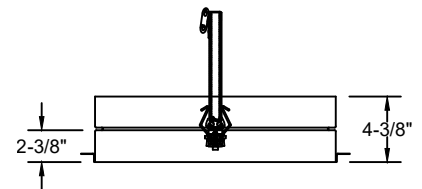
* Std, See table for extended frame



For Ductless installations directly over diffuser neck order "actual size" damper



For installation inside ducts, order "nominal size" (i.e. actual size of duct minus $\frac{1}{8}$ " (3.2mm) damper.



C-S/R-A
(Volume adjustment Option)

SUGGESTED SPECIFICATION

Square and rectangular butterfly damper's shall be Model C-S/R or C-RD-A by S&P. Ceiling dampers shall bear the Underwriters' Laboratories label and be rated for both steel duct and flex duct installations. Ceiling dampers shall have been investigated by underwriters laboratories for use in lieu of a hinged door type damper as defined in UL 555C Note that ceiling dampers covered by this scheme are only intended for use in those UL fire resistant designs that indicate the use of a hinged door type damper in the design. No external damper supports shall be required for ceiling dampers. Ceiling dampers shall be of the non-asbestose type and be furnished with a fusible link, 165° F or 212° F (74°C or 141°C) (specifier select one). Curtain fire dampers are not permitted.

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. Dry lubricants are recommended

Job Name:

Location:

Architect:

Engineer:

Contractor:



☐ **MODEL C-S/R**

☐ **MODEL C-S/R-A**

DRAWN BY:

BR

DATE:

11-7-07

REV. DATE:

4-2-26

REV. NO.

7

APPROVED BY:

DWG. NO.:

D-3