

(ENGINEERS)
SUBMITTAL DATA
MODEL C-SR-WT

Ceiling Radiation Damper for wood truss systems
U.L.555C CLASSIFIED ASSEMBLIES AND ULC S112.2 LISTED
Approved for 1 Hour Wood Truss Floor/Ceiling Assemblies

Application and Design

The Model C-SR-WT is a rectangular UL Classified ceiling (radiation) damper, butterfly style, approved for steel duct, flex duct and ductless installations in approved UL ceiling/floor designs as listed below**. These dampers provide protection up to 18" x 18" openings, or rectangular openings not exceeding 324" sq. inches (with limitations, see sizing chart)

Standard Construction

Frame: Galvanized Steel
(gauge as required by UL)

Blades: Galvanized Steel, uninsulated 80 sq. in. and under, sizes over 80 sq. in. insulated with 1/8" kaowool flex wrap non-quilted insulation (gauge as required by UL)

Springs: Corrosion resistant steel spring

Fusible Link: Replaceable 165°F (75°C) std.
(212° F optional)

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, S&P reserves the right to change specifications without notice.

Standard Sizes (duct)		
Min. Size (W x H)	Max. Size (W x H)	*Inlet size (D)
6" x 4" [152mm x 102mm]	square: 18" x 18" 457mm x 457mm	4"Ø (102mm) min. 12"Ø (305mm) oval equivalent (max.)
	rectangular: 22" w or 20" h with a maximum area of 324 sq. in.	

*Duct connections may be provided as oval equivalent.

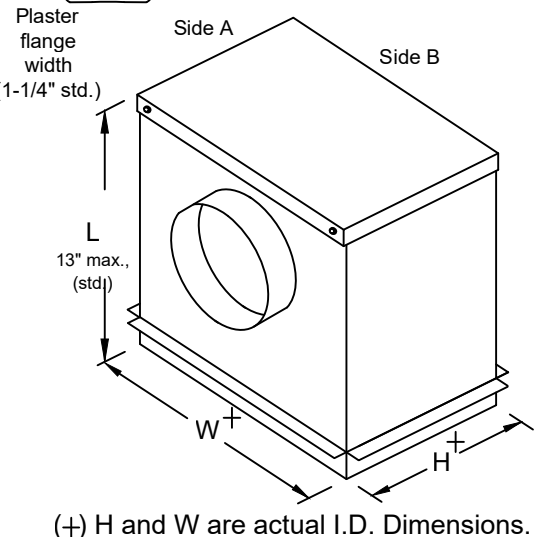
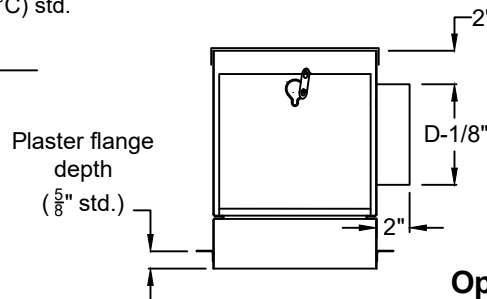
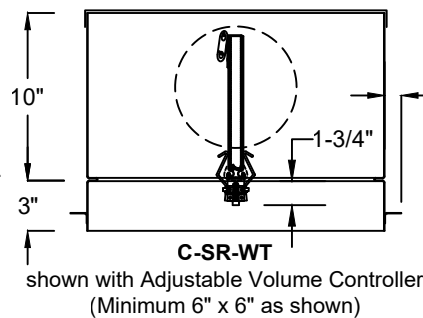
**Intended for installation in Fire Resistance Design Nos. L546, L558, L574, L585, M520, P533, P538, P544, P545, P547, & P559 as detailed in the UL Fire Resistance Directory and are similar to fire resistance rated ceiling constructions represented in the International Building Code. Contact factory regarding design nos. not listed above.

SUGGESTED SPECIFICATION

Wood Truss Ceiling damper's shall be Model C-SR-WT by S&P. Ceiling dampers shall bear the Underwriters' Laboratories label and be rated for both steel duct and flex duct installations. No external damper supports shall be required for ceiling dampers up to and including 18" square (457mm). Ceiling dampers shall be non-asbestos type and be furnished with a fusible link. Volume controller furnished where shown.

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, and local codes. In addition, fuse links shall be removed and inspected for corrosion. Dry lubricants are recommended.



UL approved with
steel and aluminum diffuser

Options:

- ☐ Volume Adjustment (min. size: 6"x6")
- ☐ Boot Rail
- ☐ Inlet Connection
 - ☐ Round/Oval Equivalent ☐ Square/Rectangular
 - Side: ☐ A ☐ B
- ☐ Alternate Plaster Flange
 - ☐ 1-1/4" deep x 1-1/4" wide
 - ☐ 2" deep x 1-1/4" wide ☐ 3" deep x 1-1/4" wide
- ☐ Alternate 212° F (100°C) fusible link

Job Name:	 ☐ MODEL C-SR-WT (Butterfly Damper)		
Location:			
Architect:			
Engineer:	DRAWN BY: CLJ	DATE: 4-6-14	REV. DATE: 4-10-2026
Contractor:	REV. NO. 7		DWG. NO.: P-93a

(ENGINEERS)
SUBMITTAL DATA

MODEL C-SR-WTS (single blade)

Ceiling Radiation Damper for wood truss systems

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

Approved for 1 Hour Wood Truss Floor/Ceiling Assemblies

Application and Design

The Model C-SR-WTS is a rectangular UL Classified ceiling (radiation) damper, single blade style, approved for steel duct, flex duct and ductless installations in approved UL ceiling/floor designs as listed below**. These dampers provide protection up to 9" x 18" openings.



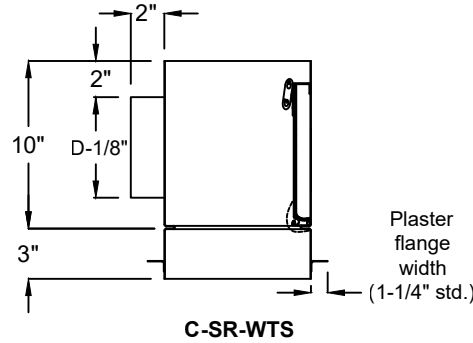
Standard Construction

Frame: Galvanized Steel
(gauge as required by UL)

Blades: Galvanized Steel, uninsulated 80 sq. in. and under, sizes over 80 sq. in. insulated with 1/8" kaowool flex wrap non-quilted insulation (gauge as required by UL)

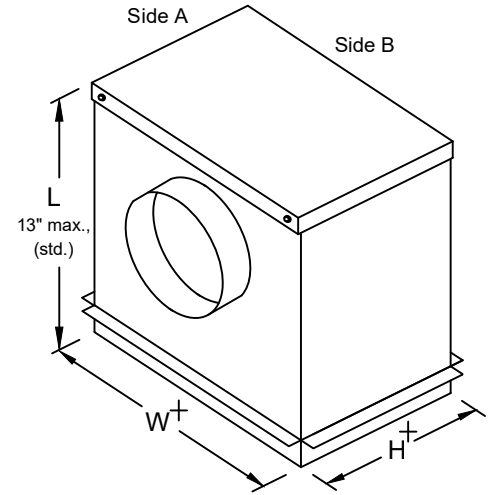
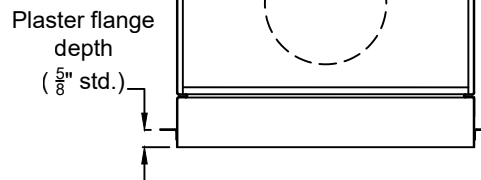
Springs: Corrosion resistant steel spring

Fusible Link: Replaceable 165°F (75°C) std.
(212° F optional)



C-SR-WTS

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.



(+) H and W are actual I.D. Dimensions.

Note:
Due to continuing research, S&P reserves the right to change specifications without notice.

Standard Sizes (duct)

Min. Size (W x H)	Max. Size (W x H)	*Inlet size (D)
6" x 4" [152mm x 102mm]	9" x 18" 229mm x 457mm	4"Ø (102mm) min. 12"Ø (305mm) oval equivalent (max.)

*Duct connections may be provided as oval equivalent.

**Intended for installation in Fire Resistance Design Nos. L546, L558, L574, L585, M520, P533, P538, P545, P547, & P559 as detailed in the UL Fire Resistance Directory and are similar to fire resistance rated ceiling constructions represented in the International Building Code. Contact factory regarding design nos. not listed above.

SUGGESTED SPECIFICATION

Wood Truss Ceiling damper's shall be Model C-S/R-WTS by S&P. Ceiling dampers shall bear the Underwriters' Laboratories label and be rated for both steel duct and flex duct installations. No external damper supports shall be required for ceiling dampers up to and including 162 sq. inches in area. Ceiling dampers shall be non-asbestos type and be furnished with a fusible link. Volume controller furnished where shown.

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, and local codes. In addition, fuse links shall be removed and inspected for corrosion. Dry lubricants are recommended.

Options:

☐ Boot Rail

☐ Inlet Connection

☐ Round/Oval Equivalent ☐ Square/Rectangular

Side: ☐ A ☐ B

☐ Alternate Plaster Flange

☐ 1-1/4" deep x 1-1/4" wide

☐ 2" deep x 1-1/4" wide ☐ 3" deep x 1-1/4" wide

☐ Alternate 212° F (100°C) fusible link

UL approved with
steel and aluminum diffuser



☐ **MODEL C-SR-WTS**
(Single Blade)

Job Name:

Location:

Architect:

Engineer:

Contractor:

DRAWN BY:

CLJ

DATE:

4-6-14

REV. DATE:

4-10-2026

REV. NO.

6

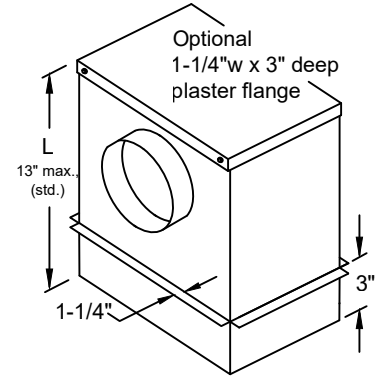
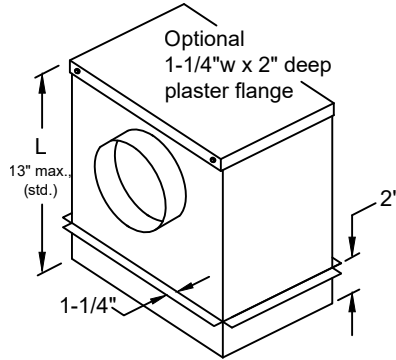
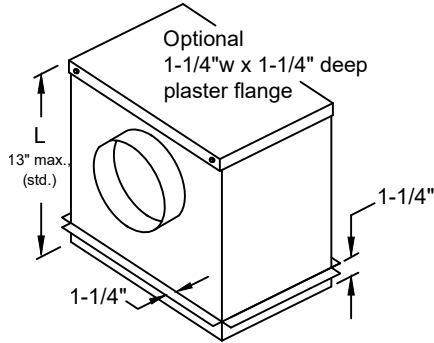
APPROVED BY:

DWG. NO.:

P-93b

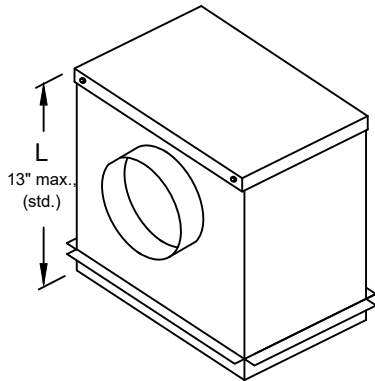
(ENGINEERS)
SUBMITTAL DATA
MODEL C-SR-WT(S)
OPTIONS

PLASTER FLANGE OPTIONS



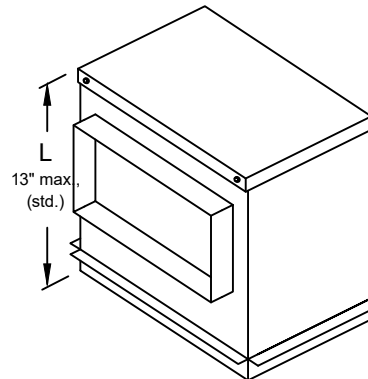
DUCT TRANSITION INLET OPTIONS / LIMITATIONS

ROUND INLET

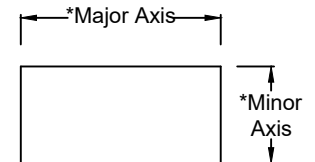


8"Ø maximum round inlet size, 9"Ø and up will be oval equivalent due to 13" max "L" dimension limitation

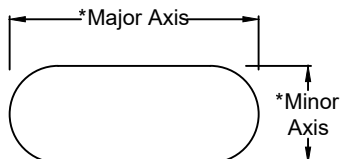
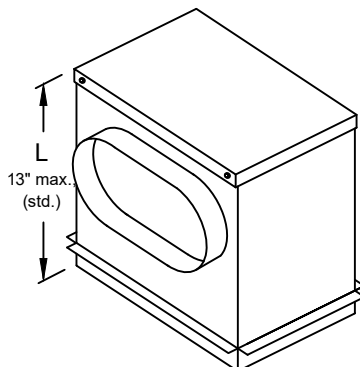
RECTANGULAR INLET



Note: Maximum inlet area can not exceed 76.12 sq. inches



OVAL INLET



Note: Maximum inlet area can not exceed 76.12 sq. inches (max. 12" Ø oval equivalent)

Round Inlet Size	Oval Conversion Size Major Axis x Minor Axis
4"	4 $\frac{7}{16}$ " x 3 $\frac{1}{4}$ "
5"	6" x 3 $\frac{1}{4}$ "
6"	6 $\frac{1}{4}$ " x 5 $\frac{1}{4}$ "
7"	8" x 5 $\frac{1}{4}$ "
8"	9 $\frac{3}{8}$ " x 5 $\frac{1}{4}$ "
9"	11 $\frac{1}{8}$ " x 5 $\frac{1}{4}$ "
10"	12 $\frac{1}{2}$ " x 5 $\frac{1}{4}$ "
12"	15 $\frac{5}{8}$ " x 5 $\frac{1}{4}$ "



☐ **C-SR-WT(S) OPTIONS**

DRAWN BY:
CLJ

DATE:
5-1-14

REV. DATE:
4-10-2026

REV. NO.
2

APPROVED BY:

DWG. NO.:
P-93c