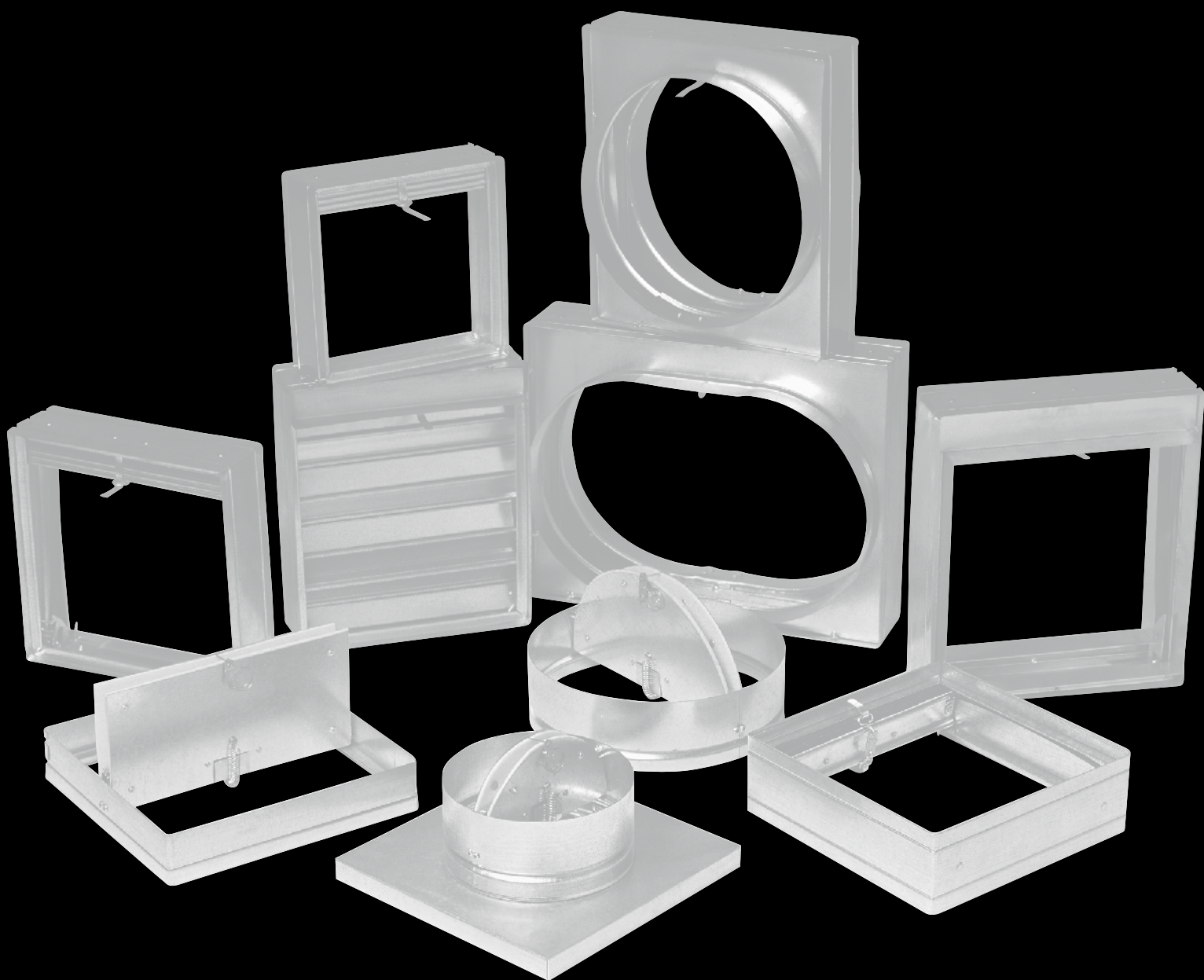




DAMPER PRODUCTS

FIRE DAMPERS • CEILING RADIATION DAMPERS

We make dampers easy for you!

In over 50 years of business, we've learned how to make business easy for our customers, and dampers are no exception. We've honed it down to a science, to save you time and money!

We provide a complete line of models plus configure-to-order (CTO) options to meet your every damper need.

To place an order for Metal-Fab Dampers, here's all you need to tell us:

Fire Dampers

1. Type - A, B or C
2. Fusible Link Temperature Set Point
3. Orientation - Vertical or Horizontal
4. Sleeve Requirement
5. Transition Requirement
6. Pressure Rating
7. Micro-Switch



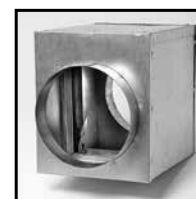
Type-A



Type-B



Type-C



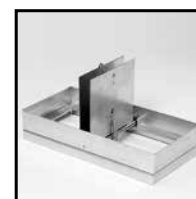
Type-C w/Sleeve

Ceiling Radiation Dampers

1. Spring or Adjustable Volume Control
2. Fusible Link Temperature Set Point
3. Transition Requirement
4. Thermal Blanket
5. Type-B (Model M CCD only)
6. Thermal Skirt



Round Butterfly



Square/Rectangular
Butterfly



Square/Rectangular
Single Blade



Square/Rectangular
Curtain

NEW

Ask about our UL listed ceiling radiation dampers for boot assemblies!

Make us your damper partner!

You won't find higher quality product or more responsive customer service. Metal-Fab gives you more:

- **No Inventory Requirement**
Use Metal-Fab as your damper warehouse.
- **Easy Ordering**
Order online or with our simple order form.
- **Fast, Dependable Shipping**
We'll ship most orders within 24 hours, even large orders. Custom orders take a little longer, but in any case, you won't be charged extra for fast shipping!
- **Simple Pricing**
Competitive pricing in a simple price structure that's easy to understand.

New Online Customer Service Portal - Saves time and makes your job easier. Use the simple Damper Calculator, check order status and tracking, find current pricing, order literature and sales support materials.
FAST, SIMPLE, EASY www.metal-fabinc.com

MODEL: MFD 1.5-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



1.5-HOUR RATING:

For use in fire barriers rated for 2 hours or less.

STANDARD CONSTRUCTION:

Frame: Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
Blades: Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
Springs: Stainless Steel.
Transition: 20 Ga. Galvanized Steel.
Finish: Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B or Type-C

Fusible link 165°F, 212°F, 286°F.

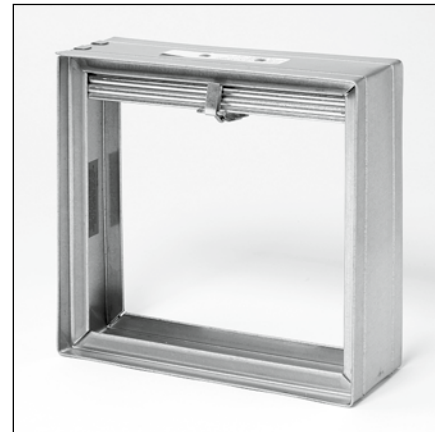
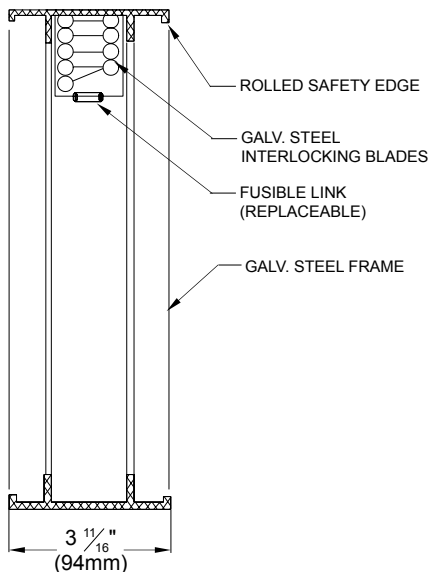
Vertical or Horizontal applications.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga., and 6", 8", 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

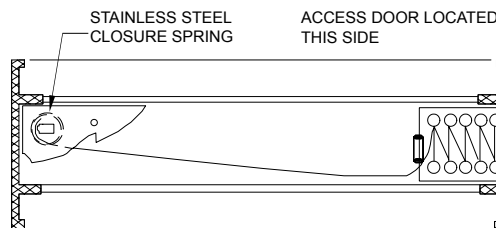
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	MIN.	MAX. SINGLE SECTION	MAX. MULTI SECTION
Vertical A	4.25"W x 3.75"H	60.25"W x 60.25"H	120.00"W x 120.00"H
Vertical B	4.25"W x 2.00"H	60.25"W x 55.25"H	120.00"W x 55.00"H
Vertical C	5.25" DIA.	59.25"W x 54.25"H	
Horizontal A	4.25"W x 4.00"H	40.25"W x 40.25"H	120.00"W x 40.00"H
Horizontal B	4.25"W x 2.25"H	40.25"W x 36.25"H	120.00"W x 36.00"H
Horizontal C	5.25" DIA.	39.25"W x 35.25"H	

STATIC CURTAIN-TYPE FIRE DAMPERS

MODEL: MFDS SLIMFRAME

1.5-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



1.5-HOUR RATING:

For use in fire barriers rated for 2 hours or less.

STANDARD CONSTRUCTION:

Frame: Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.

Blades: Roll Formed 24 Ga. Galvanized Steel, Curtain Type.

Springs: Stainless Steel.

Transition: 20 Ga. Galvanized Steel.

Finish: Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B or Type-C.

Fuse Link 165°F, 212°F, 286°F.

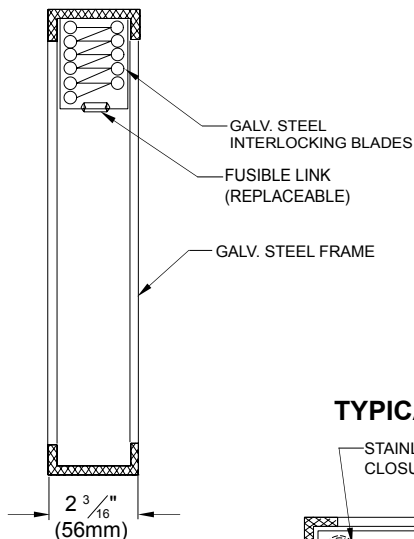
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

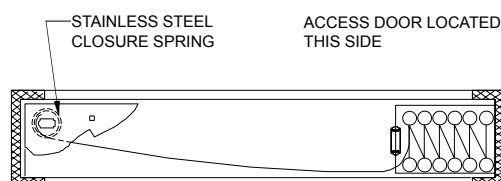
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	MIN.	MAX. SINGLE SECTION
Vertical A	4.25"W x 4.00"H	48.25"W x 48.25"H
Vertical B	4.25"W x 2.00"H	48.25"W x 43.25"H
Vertical C	5.25" DIA.	47.25"W x 42.25"H
Horizontal A	4.25"W x 4.00"H	48.25"W x 48.25"H
Horizontal B	4.25"W x 2.25"H	48.25"W x 43.25"H
Horizontal C	5.25" DIA.	47.25"W x 42.25"H

MODEL: MFDUS ULTRA SLIMFRAME

1.5-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



1.5-HOUR RATING:

For use in fire barriers rated for 2 hours or less.

STANDARD CONSTRUCTION:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B and Type-C

Fusible link 165°F, 212°F, 286°F.

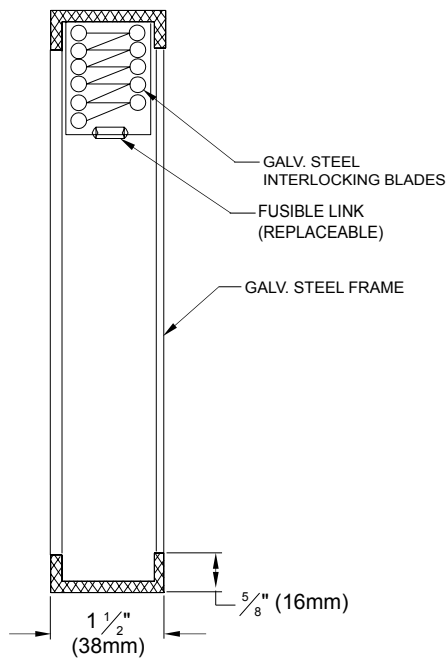
Vertical application only, not approved for horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

DUCT SIZE LIMITATIONS:

	<u>MIN.</u>	<u>MAX. SINGLE SECTION</u>
Vertical A	4.25"W x 4.00"H	48.25"W x 48.25"H
Vertical B	4.25"W x 2.00"H	48.25"W x 43.25"H
Vertical C	5.25" DIA.	47.25"W x 42.25"H

STATIC CURTAIN-TYPE FIRE DAMPERS

MODEL: MFD3 3-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



3-HOUR RATING:

For use in fire barriers rated for 4 hours or less.

Standard Construction:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

Options:

Type-A, Type-B or Type-C

Fusible link 165°F, 212°F, 286°F.

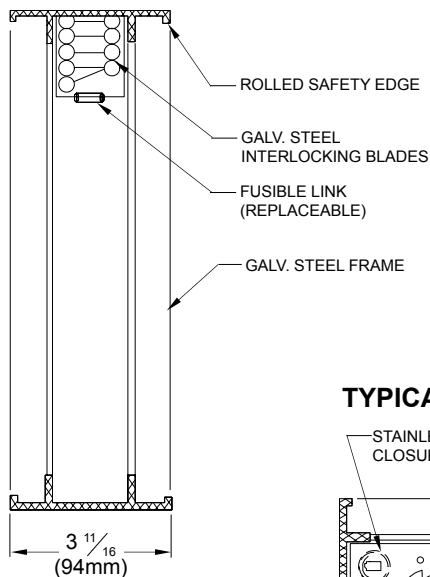
Vertical or Horizontal applications.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga., and 12", 14" or 16" long.

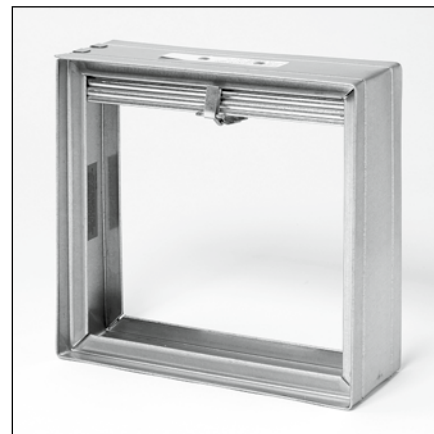
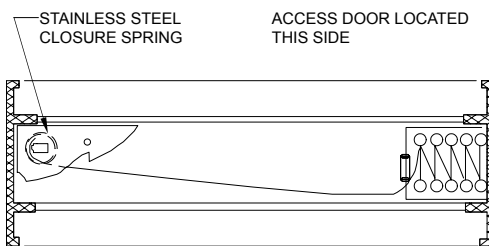
Low pressure, medium/high pressure or high pressure.

Microswitch.

TYPICAL VERTICAL DAMPER



TYPICAL HORIZONTAL DAMPER



TYPE-A SHOWN

DUCT SIZE LIMITATIONS:

	MIN.	MAX. SINGLE SECTION	MAX. MULTI SECTION
Vertical A	4.25"W x 3.75"H	60.25"W x 60.25"H	
Vertical B	4.25"W x 2.00"H	60.25"W x 55.25"H	
Vertical C	5.25" DIA.	59.25"W x 54.25"H	
Horizontal A	4.25"W x 4.00"H	40.25"W x 40.25"H	80.00"W x 40.00"H
Horizontal B	4.25"W x 2.25"H	40.25"W x 36.25"H	80.00"W x 36.00"H
Horizontal C	5.25" DIA.	39.25"W x 35.25"H	

MODEL: MFDS3 SLIMFRAME

3-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



3-HOUR RATING:

For use in fire barriers rated for 4 hours or less.

STANDARD CONSTRUCTION:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B or Type-C.

Fuse Link 165°F, 212°F, 286°F.

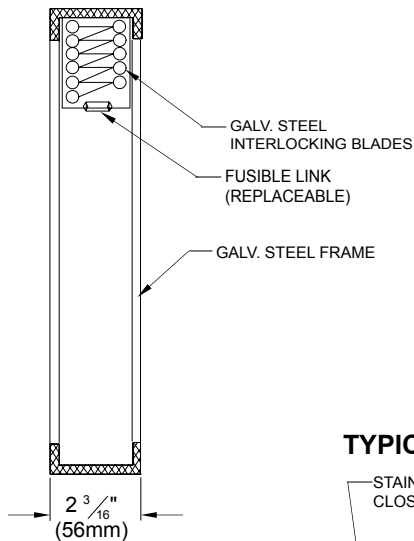
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

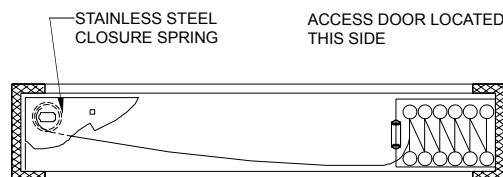
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	MIN.	MAX. SINGLE SECTION
Vertical A	4.25"W x 4.00"H	48.25"W x 48.25"H
Vertical B	4.25"W x 2.00"H	48.25"W x 43.25"H
Vertical C	5.25" DIA.	47.25"W x 42.25"H
Horizontal A	4.25"W x 4.00"H	48.25"W x 48.25"H
Horizontal B	4.25"W x 2.25"H	48.25"W x 43.25"H
Horizontal C	5.25" DIA.	47.25"W x 42.25"H

STATIC CURTAIN-TYPE FIRE DAMPERS

MODEL: MFDUS3 ULTRA SLIMFRAME

3-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



3-HOUR RATING:

For use in fire barriers rated for 4 hours or less.

STANDARD CONSTRUCTION:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions Available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B and Type-C

Fusible link 165°F, 212°F, 286°F.

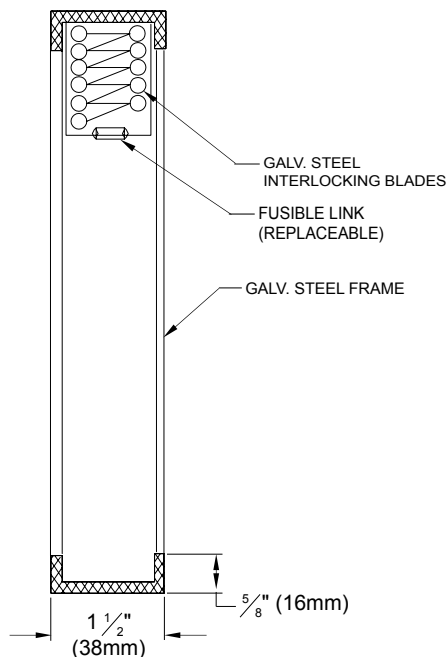
Vertical application only, not approved for horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

DUCT SIZE LIMITATIONS:

	<u>MIN.</u>
Vertical A	4.25"W x 4.00"H
Vertical B	4.25"W x 2.00"H
Vertical C	5.25" DIA.

MAX. SINGLE SECTION

48.25"W x 48.25"H
48.25"W x 43.25"H
47.25"W x 42.25"H

MODEL: MDFD 1.5-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



1.5-HOUR RATING:

For use in fire barriers rated for 2 hours or less.

Standard Construction:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Fusible link:** 165°F.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

Options:

Type-A, Type-B and Type-C

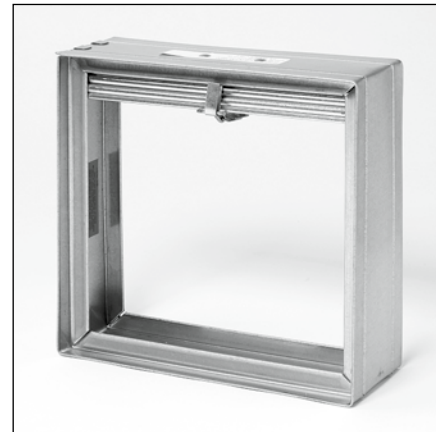
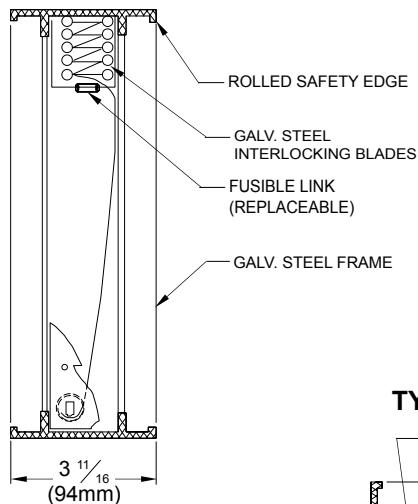
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

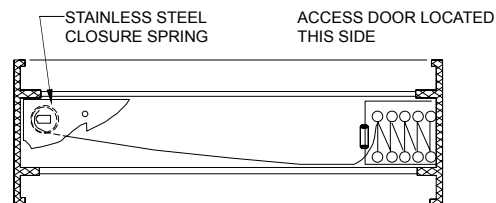
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	<u>MIN.</u>	<u>MAX. SINGLE SECTION</u>	<u>MAX. MULTI SECTION</u>
Vertical A	6.50"W x 5.25"H	36.25"W x 36.25"H	N/A
Vertical B	6.50"W x 3.25"H	36.25"W x 33.25"H	N/A
Vertical C	5.50" DIA.	35.25"W x 32.25"H	N/A
Horizontal A	6.50"W x 5.25"H	18.25"W x 18.25"H	36.25"W x 36.25"H
Horizontal B	6.50"W x 3.25"H	18.25"W x 16.25"H	36.25"W x 32.25"H
Horizontal C	5.50" DIA.	17.25"W x 15.25"H	N/A

DYNAMIC CURTAIN-TYPE FIRE DAMPERS

MODEL: MDFDS SLIMFRAME

1.5-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



1.5-HOUR RATING:

For use in fire barriers rated for 2 hours or less.

STANDARD CONSTRUCTION:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Fusible link:** 165°F.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B and Type-C

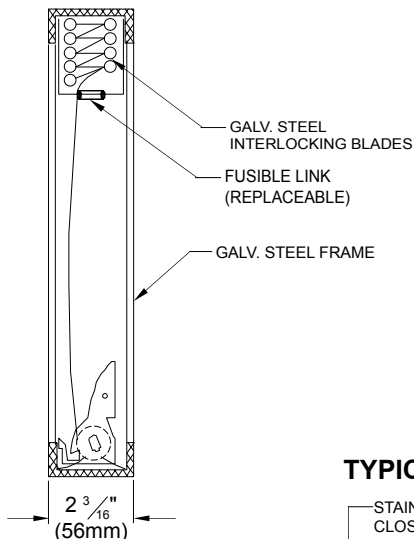
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

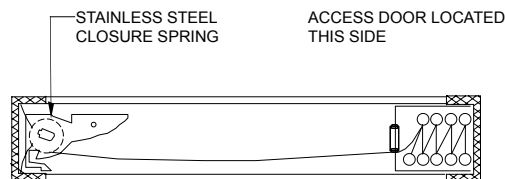
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	<u>MIN.</u>	<u>MAX. SINGLE SECTION</u>	<u>MAX. MULTI SECTION</u>
Vertical A	6.50"W x 5.25"H	36.25"W x 36.25"H	N/A
Vertical B	6.50"W x 3.25"H	36.25"W x 33.25"H	N/A
Vertical C	5.50" DIA.	35.25"W x 31.25"H	N/A
Horizontal A	6.50"W x 5.25"H	18.25"W x 18.25"H	36.25"W x 36.25"H
Horizontal B	6.50"W x 3.25"H	18.25"W x 16.25"H	36.25"W x 32.25"H
Horizontal C	5.50" DIA.	17.25"W x 16.25"H	N/A

MODEL: MDFD3

3-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



3-HOUR RATING:

For use in fire barriers rated for 4 hours or less.

Standard Construction:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Fusible link:** 165°F.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

Options:

Type-A, Type-B and Type-C

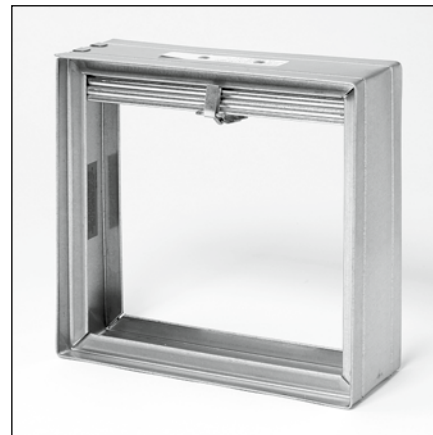
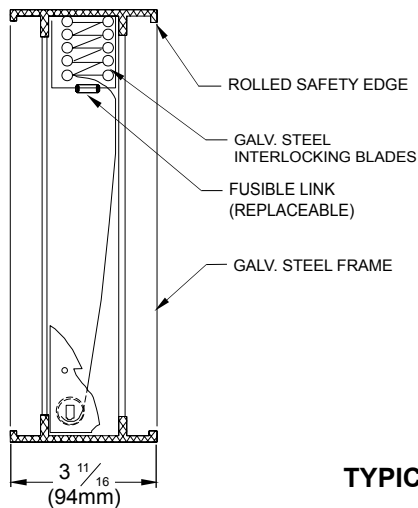
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

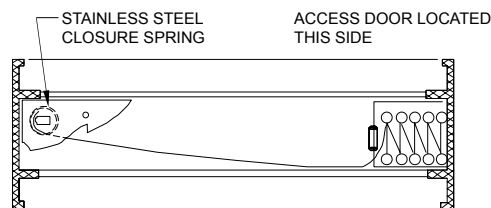
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	MIN.	MAX. SINGLE SECTION	MAX. MULTI SECTION
Vertical A	6.50"W x 5.25"H	36.25"W x 36.25"H	N/A
Vertical B	6.50"W x 3.25"H	36.25"W x 33.25"H	N/A
Vertical C	5.50" DIA.	35.25"W x 32.25"H	N/A
Horizontal A	6.50"W x 5.25"H	18.25"W x 18.25"H	36.25"W x 36.25"H
Horizontal B	6.50"W x 3.25"H	18.25"W x 16.25"H	36.25"W x 32.25"H
Horizontal C	5.50" DIA.	17.25"W x 15.25"H	N/A

DYNAMIC CURTAIN-TYPE FIRE DAMPERS

MODEL: MDFDS3 SLIMFRAME

3-HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



3-HOUR RATING:

For use in fire barriers rated for 4 hours or less.

STANDARD CONSTRUCTION:

- Frame:** Roll Formed 22 Ga. Galvanized Steel with Safety Edge.
Width and height dimensions available in 1/4" increments.
- Blades:** Roll Formed 24 Ga. Galvanized Steel, Curtain Type.
- Springs:** Stainless Steel.
- Fusible link:** 165°F.
- Transition:** 20 Ga. Galvanized Steel.
- Finish:** Mill Galvanized Standard.

OPTIONS:

Type-A, Type-B and Type-C

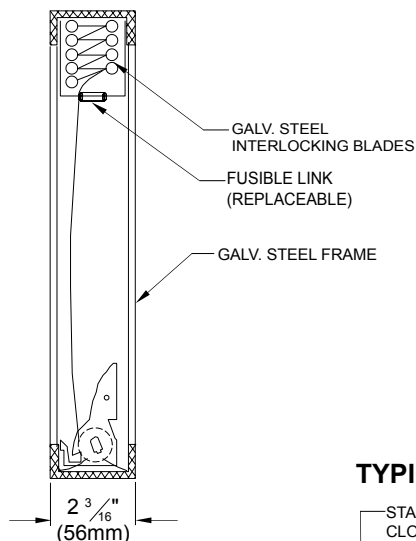
Vertical or Horizontal application.

Sleeve options are 20 Ga., 18 Ga., or 16 Ga. and 12", 14" or 16" long.

Low pressure, medium/high pressure or high pressure.

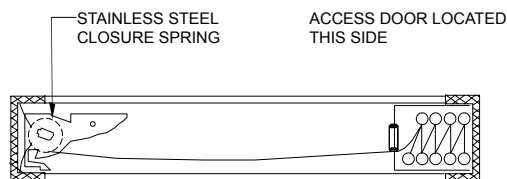
Microswitch.

TYPICAL VERTICAL DAMPER



TYPE-A SHOWN

TYPICAL HORIZONTAL DAMPER



DUCT SIZE LIMITATIONS:

	<u>MIN.</u>	<u>MAX. SINGLE SECTION</u>	<u>MAX. MULTI SECTION</u>
Vertical A	6.50"W x 5.25"H	36.25"W x 36.25"H	N/A
Vertical B	6.50"W x 3.25"H	36.25"W x 33.25"H	N/A
Vertical C	5.50" DIA.	35.25"W x 31.25"H	N/A
Horizontal A	6.50"W x 5.25"H	18.25"W x 18.25"H	36.25"W x 36.25"H
Horizontal B	6.50"W x 3.25"H	18.25"W x 16.25"H	36.25"W x 32.25"H
Horizontal C	5.50" DIA.	17.25"W x 16.25"H	N/A

MODEL: MRCD BUTTERFLY
UL 555C LISTED FOR 3-4 HOURS



UL CLASSIFIED
 (SEE COMPLETE
 MARKING ON PRODUCT)



MODEL MRCD: UL 555C Listed for 3-4 hours

Round, butterfly-type.

STANDARD CONSTRUCTION:

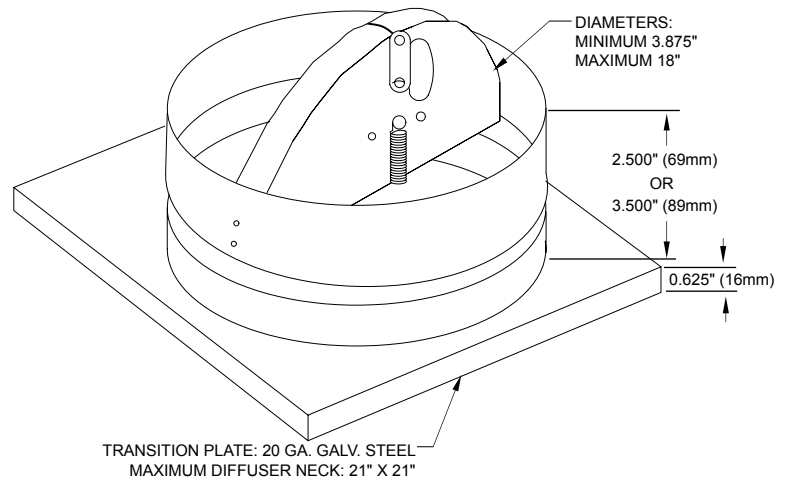
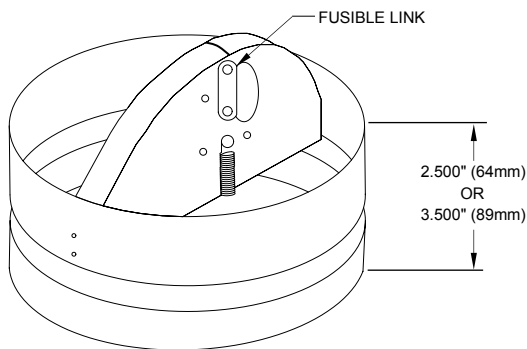
Frame: 22 Ga. galvanized steel.
 Blades: 22 Ga. galvanized steel.
 Thermal Blanket: Non-asbestos, ceramic blanket on sizes 80 sq. inches and up.
 Spring: Corrosion resistant steel spring.
 Finish: Mill Galvanized.

OPTIONS:

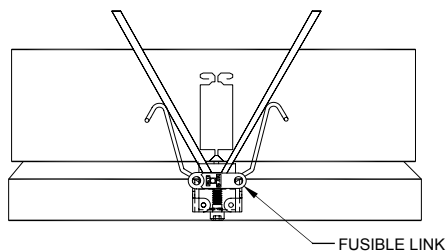
Frame Height: 2.5" or 3.5".
 Adjustable Volume Control
 Fusible Link: Replaceable 165°F or 212°F.
 Outlet Transition: Round to Square.
 Thermal Blanket: TB5000, 24" x 24" x 1/8" non-asbestos, ceramic blanket.

SIZE LIMITATIONS:

Minimum 3.875" dia., Maximum 18" dia.



MODEL MRCD WITH ROUND TO SQUARE TRANSITION



MODEL MRCD WITH ADJUSTABLE VOLUME CONTROL

CEILING RADIATION DAMPERS

MODEL: MSCD BUTTERFLY UL 555C LISTED FOR 3-4 HOURS



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



MODEL MSCD: UL 555C Listed for 3-4 hours.

Square or rectangular butterfly-type.

STANDARD CONSTRUCTION:

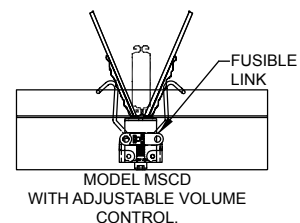
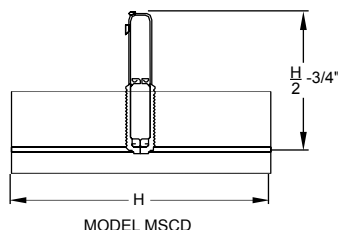
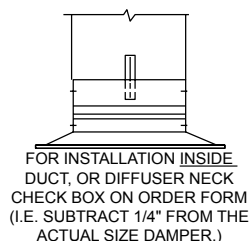
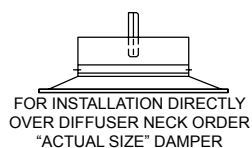
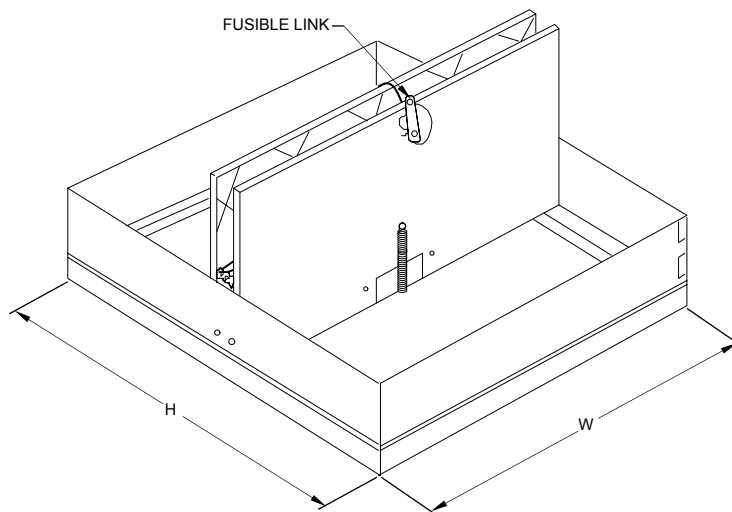
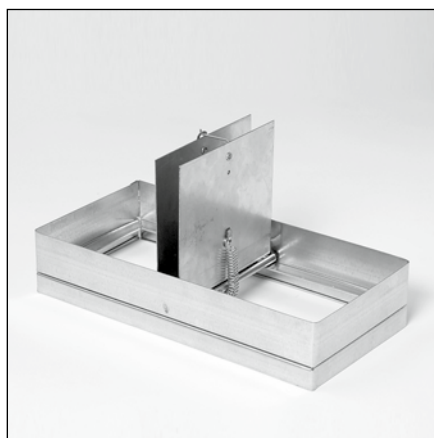
Frame: Roll formed, 22 Ga. galvanized steel.
Blades: 22 Ga. galvanized steel.
Thermal Blanket: Non-asbestos, ceramic blanket on sizes 80 sq. inches and up.
Spring: Corrosion resistant steel spring.
Finish: Mill galvanized.

OPTIONS:

Adjustable Volume Control
Fusible Link: Replaceable 165°F or 212°F.
Outlet Transition: Square to Round.
Thermal Blanket: TB5000, 24" x 24" x 1/8" non-asbestos, ceramic blanket.

SIZE LIMITATIONS:

Sizes: Minimum: 3.75" W or 3.75" H.
Minimum area: 24 sq. inch (nominal).
Maximum 22" W x 22" H.



MODEL: MSCDSB SINGLE BLADE UL 555C LISTED FOR 3-4 HOURS



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



MODEL MSCD: UL 555C Listed for 3-4 hours.

Square or rectangular single blade type.

STANDARD CONSTRUCTION:

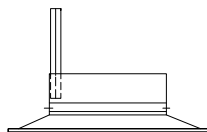
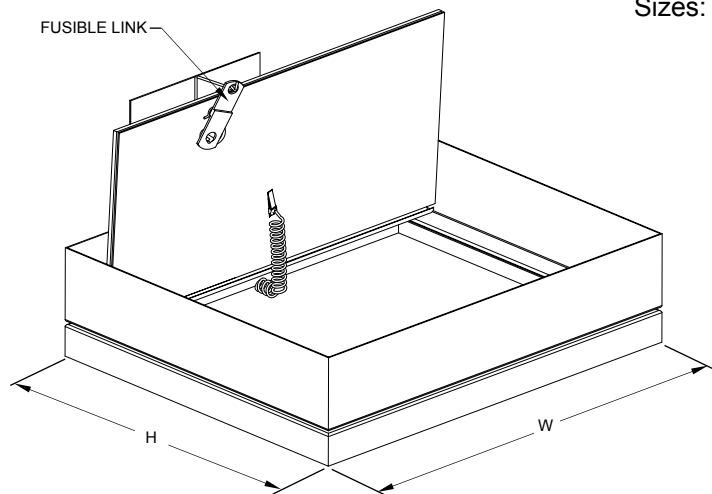
Frame: Roll formed, 22 Ga. galvanized steel.
Blades: 22 Ga. galvanized steel.
Thermal Blanket: Non-asbestos, ceramic blanket on sizes 80 sq. inches and up.
Spring: Corrosion resistant steel spring.
Finish: Mill galvanized.

OPTIONS:

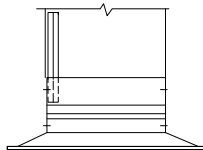
Fusible Link: Replaceable 165°F or 212°F.
Thermal Blanket: TB5000, 24" x 24" x 1/8" non-asbestos, ceramic blanket.

SIZE LIMITATIONS:

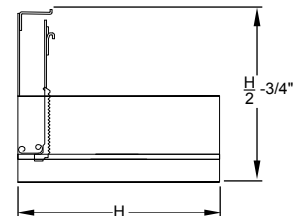
Sizes: Minimum: 3.75" W or 3.75" H.
Minimum area: 16 sq. inch (nominal).
Maximum 22" W x 6" H.



FOR INSTALLATION DIRECTLY
OVER DIFFUSER NECK ORDER
"ACTUAL SIZE" DAMPER.



FOR INSTALLATION INSIDE
DUCT, OR DIFFUSER NECK
CHECK BOX ON ORDER FORM
(I.E. SUBTRACT 1/4" FROM THE
ACTUAL SIZE DAMPER.)



MODEL MSCDSB

CEILING RADIATION DAMPERS

MODEL: MCCD

UL 555C LISTED FOR 3-4 HOURS



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



MODEL MCCD:

UL 555C Listed for 3-4 hours.

Square or rectangular damper with quilted ceramic thermal blanket, (non-asbestos).

STANDARD CONSTRUCTION:

Frame: Roll formed, 22 Ga. galvanized steel.
Blades: Roll formed, 24 Ga. galvanized steel.
Thermal Blanket: Non-asbestos, ceramic blanket.
Springs: Stainless steel.
Finish: Mill galvanized.

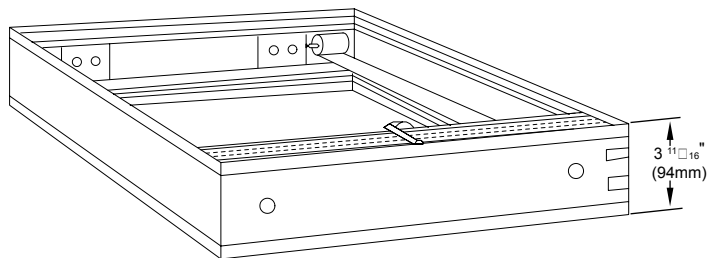
OPTIONS:

Type-B: B channels installed (see below).
Fusible Link: Replaceable 165°F, 212°F.
Thermal Blanket: TB5000 24" x 24" x 1/8", non-asbestos, ceramic blanket.

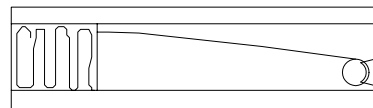


SIZE LIMITATIONS:

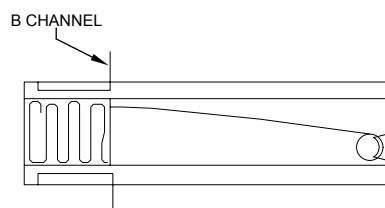
Minimum: 4.00" W or 4.25" H.
Minimum area: 24 sq. inch (nominal).
Maximum 23.75" W x 23.75" H.



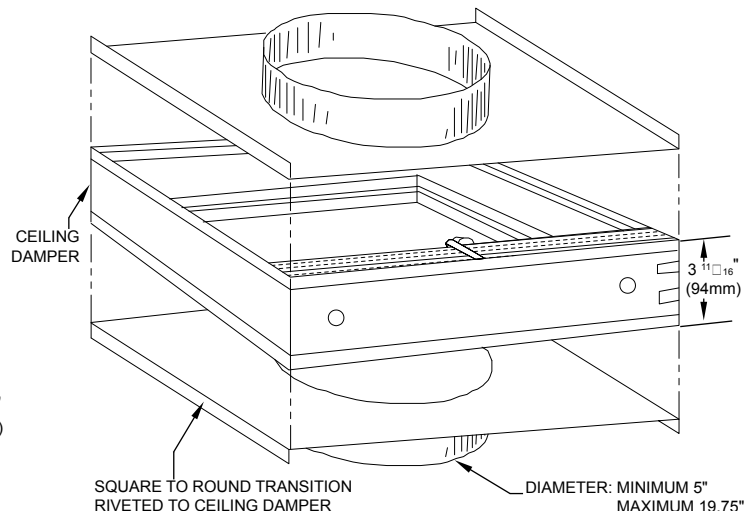
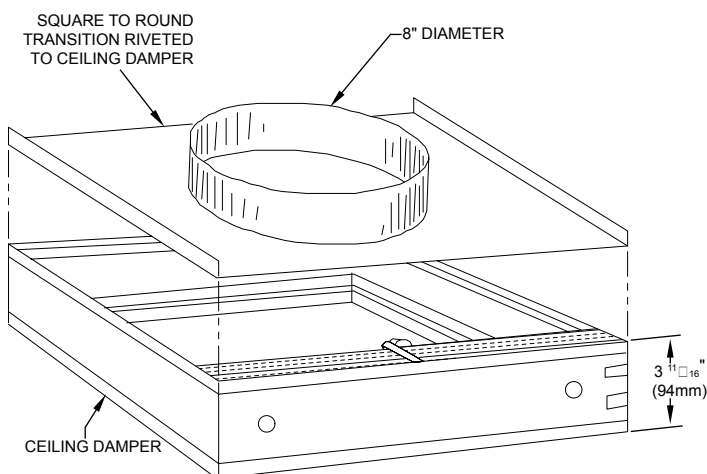
MODELS



TYPE-A



TYPE-B



MODEL: MFRA FRAMED RETAINING ANGLES



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



STANDARD CONSTRUCTION:

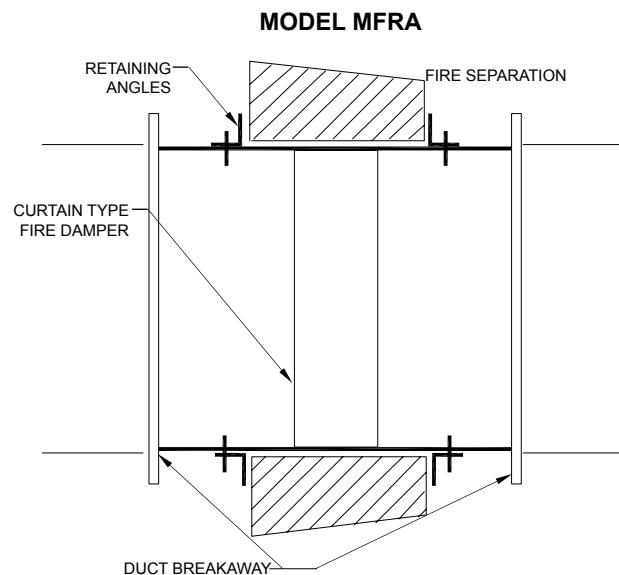
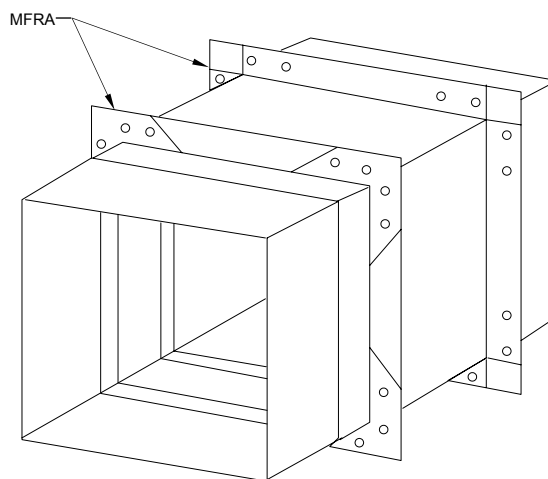
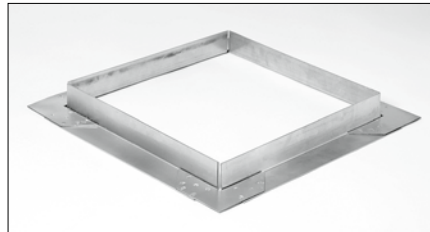
16 Ga. 1-1/2" x 1-1/2" formed
galvanized steel with staked corners.

Sizes: Minimum 6-1/4" x 6-1/4".
Maximum 48" x 48".

NOTE: When the damper or the damper assemblies exceed either 48" in width or height, the retaining angles shall not be less than 1-1/2" x 1-1/2" and shall be attached to the sleeve using 1/4-20 x 3/4" roundhead stove bolts at 8" on center. 1" long welds or #14 x 3/4" sheet metal screws at the same spacing.

APPLICATION:

The model MFRA retaining angles can be installed on Metal-Fab curtain fire dampers. MFRA retaining angles are shipped in sets of two.



**Vertical Installation Shown
Horizontal is Similar.**

MODEL: MRCDHC & MSCDHC

3-4 HOUR RATING



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



MODEL: MRCDHC & MSCDHC

Ceiling Radiation Dampers in boot assemblies for use in UL fire resistance floor-ceiling & roof-ceiling designs as listed in the UL fire resistance directory.

UL Designs L501 & L502.

Metal-Fab's MRCDHC & MSCDHC Ceiling Radiation Dampers may also be substituted into any UL design which incorporates a hinged blade damper as outlined in the UL fire resistance directory.

CEILING RADIATION DAMPER

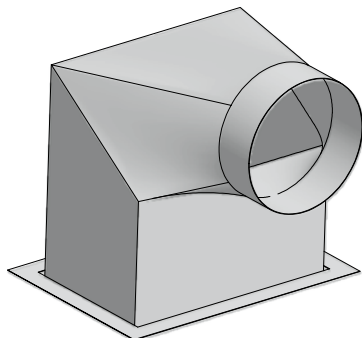
UL Listed Link: 165° F or 212°F.
Frame & Blades: 22 Ga. Galvanized Steel.
Thermal Blanket: Ceramic Type.
Spring: Corrosion-Resistant Steel.
Rating: 3 to 4 Hours.
Maximum Size: 16"x12" or 14" Dia.

BOOT/REGISTER BOX

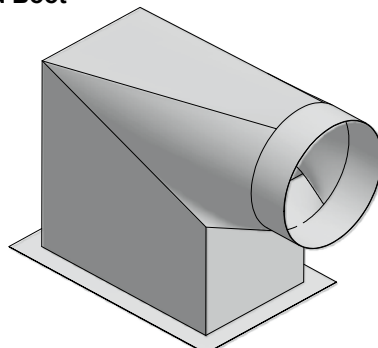
30 Ga. Galvanized Steel Minimum.
 Standard Drywall Flange (Optional Extended Length).
 Insulation Pre-installed or Supplied by Contractor/Installer.



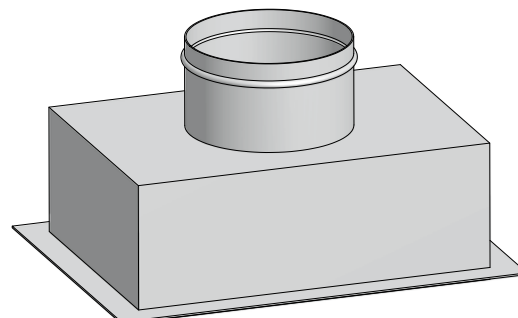
90° or "L" Boot



End Boot



Straight Boot



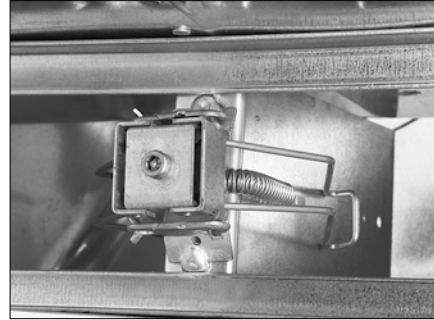
CEILING RADIATION DAMPER ADJUSTABLE VOLUME CONTROL



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)



The adjustable volume control is available on the MRCD and MSCD models. The damper has a mechanism that allows the blades of the ceiling damper to be adjusted into or out of the damper frame. The blade adjustment has a direct effect on the airflow volume through the damper and the register or grill.



ADJUSTABLE VOLUME CONTROL ON MSCD

MODEL: TB5000 THERMAL BLANKET



UL CLASSIFIED
(SEE COMPLETE
MARKING ON PRODUCT)

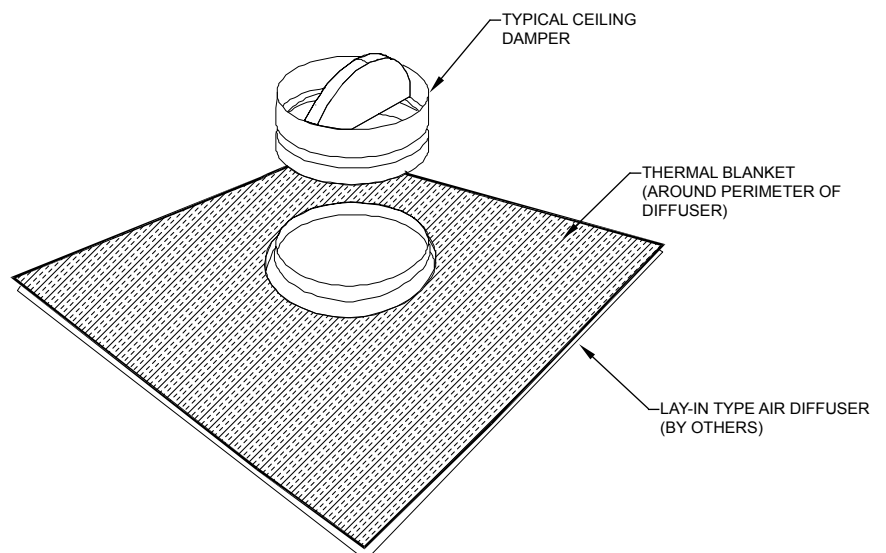
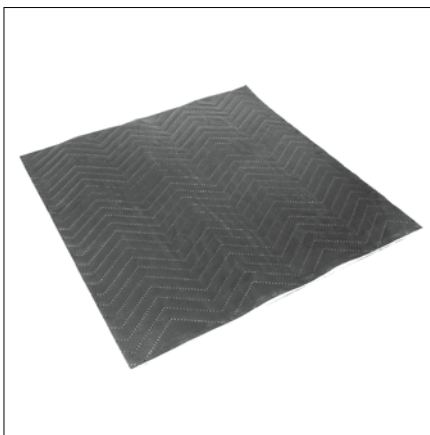


MODEL TB5000: Ceramic Fiber Thermal Blanket.
Dimensions: 24" x 24" x 1/8".

FEATURES:

- Listed and labeled by UL for openings up to 576 sq. in., rated 4 hrs. or less.
- Lightweight, non-asbestos fabric can be easily installed in the field.
- Allows for ceiling openings larger than duct size (e.g. lay-in diffusers).
- Tested up to 2000°F at 4 hours.

NOTE: TB5000 Thermal Blanket is approved for use with all Metal-Fab ceiling dampers (i.e. Model MCRD with transition).



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