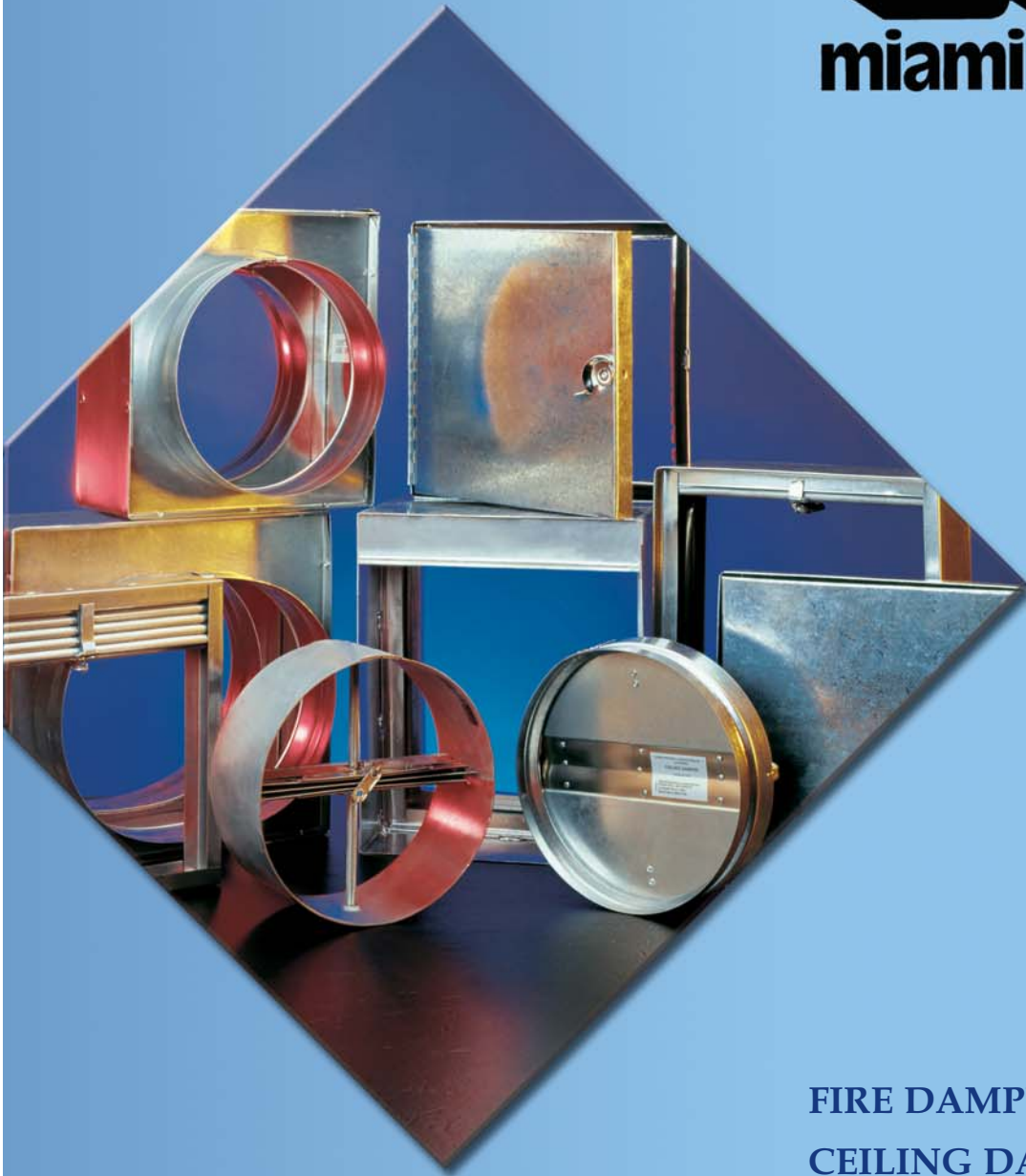


**FIRE PRODUCTS
2014**



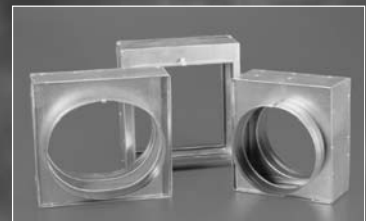
**FIRE DAMPERS
CEILING DAMPERS
ACCESS DOORS
RADIATION DAMPER BOXES**

Miami Tech Inc. is proud to introduce its fire products catalog. Our latest product catalog exclusively showcases our fire dampers, ceiling radiation dampers, access doors and radiation damper boxes.

Coupled with testing, certification and research at Underwriters Laboratories and Cert Aire, we are pleased to offer our products to the HVAC industry.

Miami Tech Inc. is well known for its outstanding service and detail in quality. With over 25 years of service in the HVAC industry, we have earned our status as a leader in innovation and automation. Founded on customer involvement, we have always expanded our product line based on the needs of our evolving industry.

We are eager to provide you with our fire products and invite you to experience the satisfaction that comes with being a customer of Miami Tech Inc.



Terms and Conditions of Sale

- 1. Terms 1%-10days, Net 30 days. Add 1 1/2% per month service charge on all delinquent accounts.
- 2. All prices and/or designs subject to change without notice.
- 3. All claims for shortage, damage, etc., must be made within 24 hours from date of shipment. For LTL shipments and truck loads, discrepancies must be noted on bill of lading.

Return Policy

- 1. No returned merchandise will be accepted without prior approval from Miami Tech Inc.
- 2. No returns after 60 days.
- 3. No returns on special or non-stock items.
- 4. Returned merchandise will be subject to a 20% restocking charge.

Freight Policy

- 1. Freight is paid on a minimum order of \$1500.00 net for -Florida (except Panhandle).
- 2. Freight is paid on a minimum order of \$3,000.00 net for Florida Panhandle.
- 3. Freight is paid on a minimum order of \$3000.00 net for Alabama, Georgia, North Carolina and South Carolina.
- 4. For States not listed, orders will be addressed on a case by case basis.

Sales Policy

- 1. Minimum order of \$100.00 net for local delivery.
- 2. Minimum invoice charge is \$50.00.
- 3. Broken box charge: additional 25%.

Special Sizes

If a particular size is not listed in our catalog, please do not hesitate to ask. We are able to make most sizes if given specifications.

Warranty

MIAMI TECH INC., warrants that the products & fittings it manufactures are produced in accordance with the standards and specifications shown in its catalog. No warranty of suitability for any particular purpose, nor any other presentation or warranty, whether expressed or implied, is made respecting these products.

Miami Tech Inc., 3611 N.W. 74 St., Miami FL 33147 (305) 693-7054 Ph. (305) 693-6152 Fax

Visit us on the web at: www.miamitech.com

Visit our sister company at www.grilletechinc.com

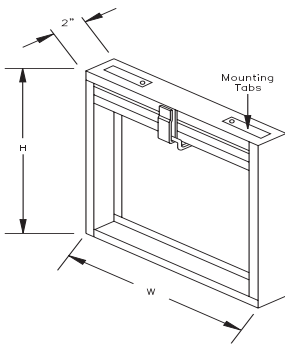


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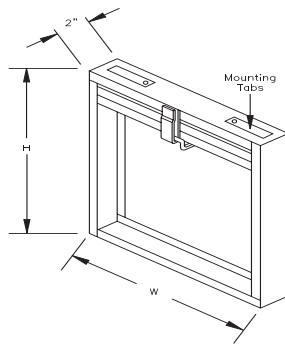
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FIRE DAMPER OVERVIEW (CURTAIN TYPE)

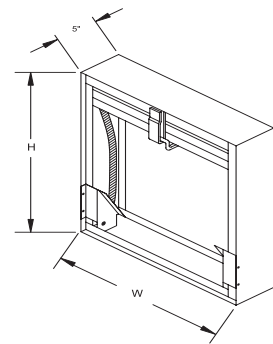
STATIC SYSTEM APPLICATION - UL555 CLASSIFICATION							
Model	Rating	Fusible Link	Blade Gauge	Closure Springs	Blade Configuration	Mounting	Page
150E	1½ Hour	165 or 212	22 Ga.	Stainless Steel	In Airstream	Horizontal	6
150F	3 Hour	165 or 212	22 Ga.	N/A	In Airstream	Vertical	7
DYNAMIC SYSTEM APPLICATION - UL555 CLASSIFICATION							
Model	Rating	Fusible Link	Blade Gauge	Closure Springs	Blade Configuration	Mounting	Page
151A	1½ Hour	165 or 212	22 Ga.	Stainless Steel	In Airstream	Horizontal/Vertical	8
151B	1½ Hour	165 or 212	22 Ga.	Stainless Steel	Out of Airstream	Horizontal/Vertical	9
151C	1½ Hour	165 or 212	22 Ga.	Stainless Steel	Out of Airstream	Horizontal/Vertical	10
US-3	1½ Hour	165	16 Ga.	Stainless Steel	In Airstream	Horizontal/Vertical	11



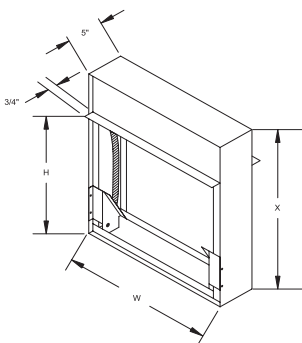
150E



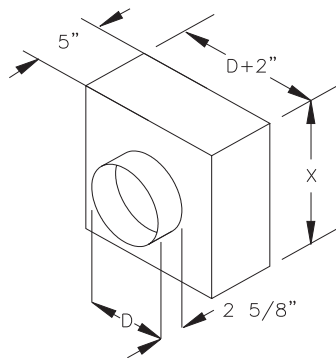
150F



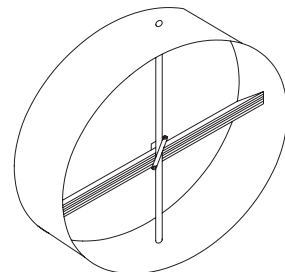
151A



151B



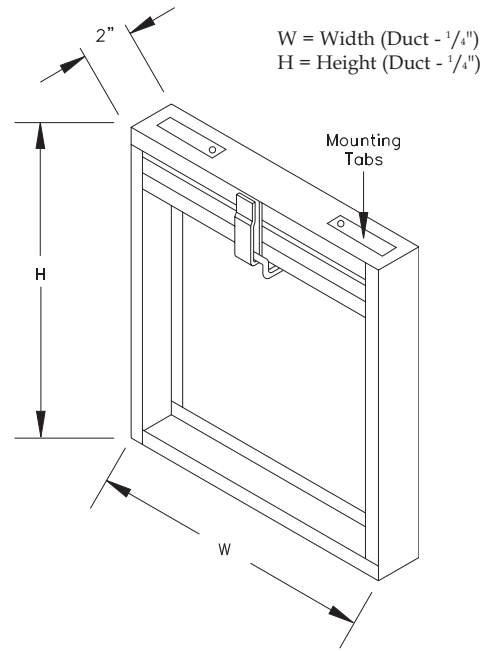
151C



US-3

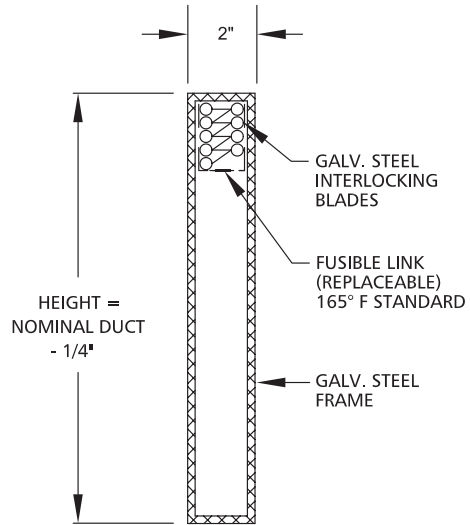
Model 150E - Slimline

*Curtain Type Fire Damper - UL555 Classification
Horizontal and Vertical, 1½ Hour Rating*



Features

- Slimline frame profile where narrow clearances are required.
- Meets all UL and NFPA requirements for **Primary Fire Dampers** and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- Gravity operated for vertical installation. Closure springs and latches included for horizontal installation.
- 1½ hours for use in fire barriers rated two hours or less.
- Integral mounting tabs for quick installation .
- Optional installed duct sleeves available (see page 28).



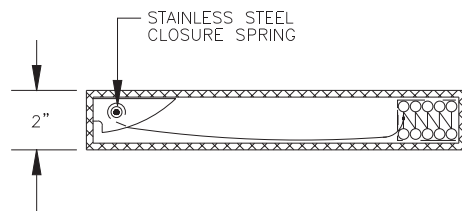
Typical Vertical Damper

UL File No. 10250



MINIMUM AVAILABLE SIZE, Inches (W x H)	
Horizontal (150E)	Vertical (150E)
6" x 6"	6" x 6"

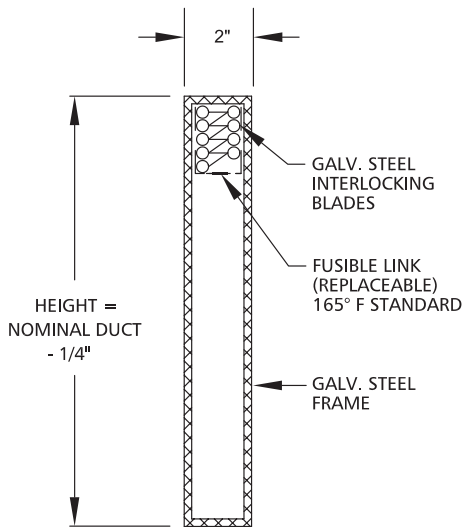
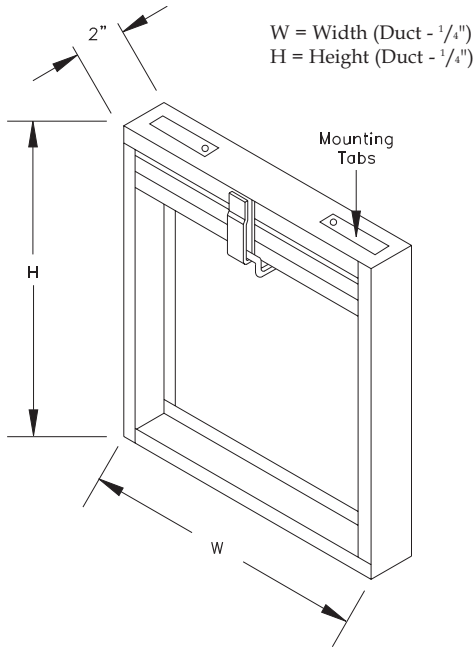
NOTE: See page 14 for sizing chart.



Typical Horizontal Damper

Model 150F - Slimline

*Curtain Type Fire Damper - UL555 Classification
Vertical, 3 Hour Rating*



Typical Vertical Damper

Features

- Slimline frame profile where narrow clearances are required.
- Meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of four hours or less.**
- Gravity operated for vertical installation.
- 3 hour rating for use in fire barriers rated four hours or less.
- Optional installed duct sleeves available (see page 28).

UL File No. 10250

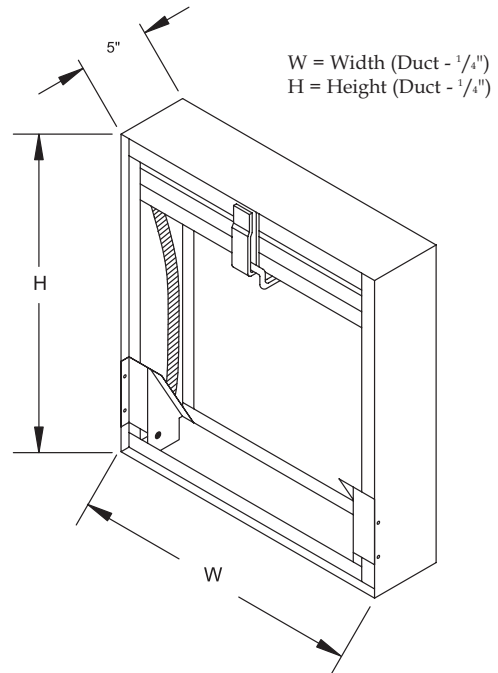


MINIMUM AVAILABLE SIZE, Inches (W x H)
Vertical (150F)
6" x 6"

NOTE: See page 14 for sizing chart.

Model 151A

Curtain Type Fire Damper – UL555 Classification
Horizontal and Vertical, 1½ Hour Rating

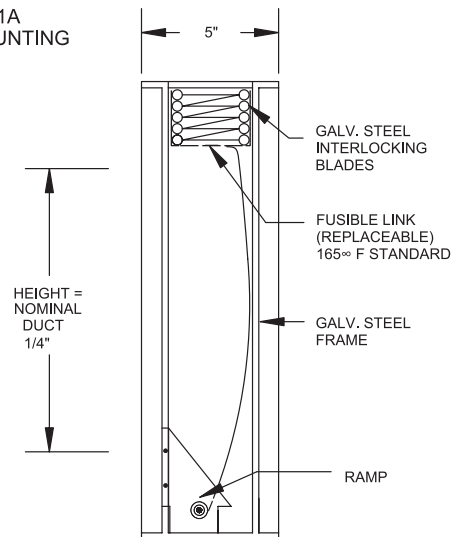


Features

- Designed with constant force springs in the horizontal configurations to ensure closure under airflow conditions.
- Meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- 1½ hours for use in fire barriers rated two hours or less.
- Optional installed duct sleeves available (see page 28).

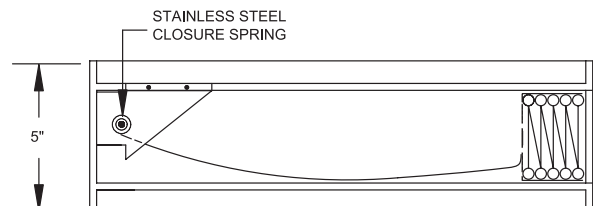
UL File No. 10250

MODEL 151A
VERTICAL MOUNTING



Typical 151A Vertical Damper

MODEL 151A
HORIZONTAL MOUNTING

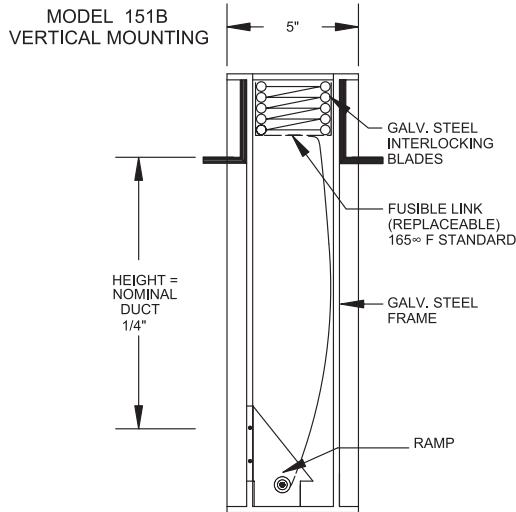
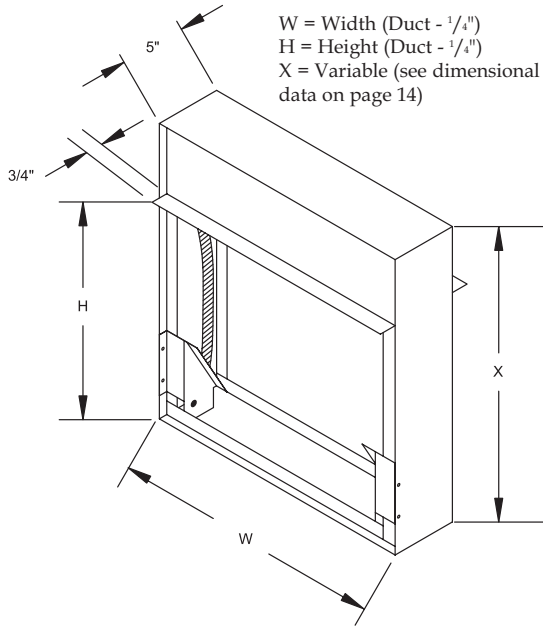


Typical 151A Horizontal Damper

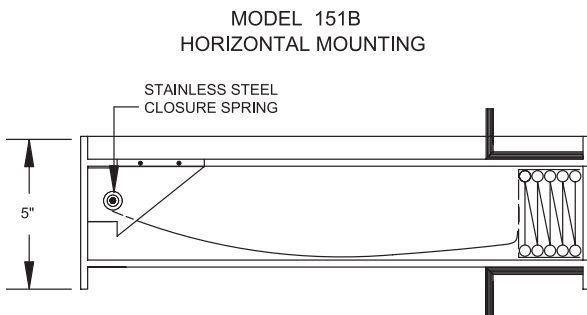


MINIMUM AVAILABLE SIZE, Inches (W x H)	
Horizontal (151A)	Vertical (151A)
6" x 6"	6" x 6"

NOTE: See page 14 for sizing chart.



Typical 151B Vertical Damper



Typical 151B Horizontal Damper

Model 151B
Curtain Type Fire Damper – UL555 Classification
Horizontal and Vertical, 1½ Hour Rating



Features

- Designed with constant force springs in the horizontal configurations to ensure closure under airflow conditions.
- Meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- 1½ hours for use in fire barriers rated two hours or less.
- Optional installed duct sleeves available (see page 28).

UL File No. 10250



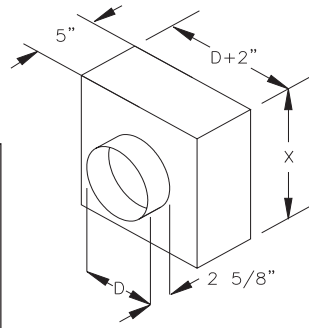
MINIMUM AVAILABLE SIZE, Inches (W x H)	
Horizontal (151B)	Vertical (151B)
6" x 6"	6" x 6"

NOTE: See page 14 for sizing chart.

Model(s) 151C Series

High Pressure

*Curtain Type Fire Damper – UL555 Classification
Horizontal and Vertical, 1½ Hour Rating*



W = Width (Duct - 1/4")
H = Height (Duct - 1/4")
D = Diameter (Duct - 1/4")
X = Variable (see dimensional data on page 14)

Features

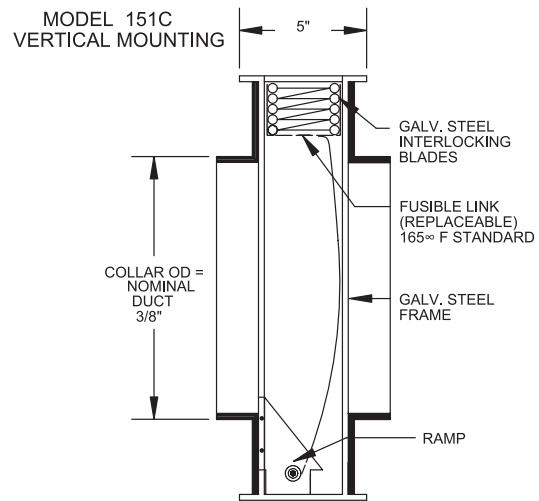
- Designed with constant force springs in the horizontal configurations to ensure closure under air-flow conditions.
- Meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- 1½ hour rating. For use in fire barriers rated two hours or less.
- Transition collars in round configurations for simple duct attachment.
- Units also available with collar on one side only.
- Optional installed duct sleeves available (see page 28).

UL File No. 10250

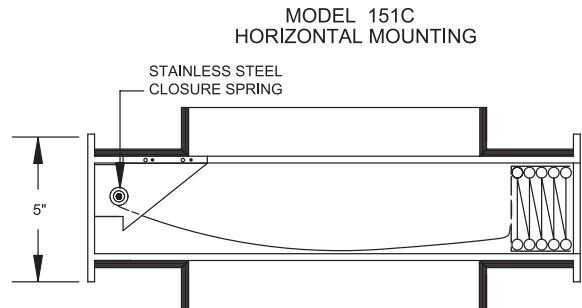


MIN. AVAILABLE SIZE, Inches (W x H)	
Horizontal	Vertical
4" (diameter)	4" (diameter)

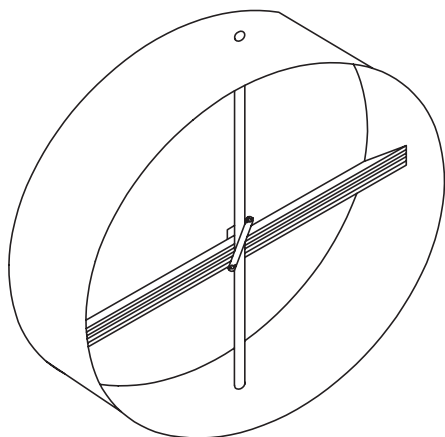
NOTE: See page 14 for sizing chart.



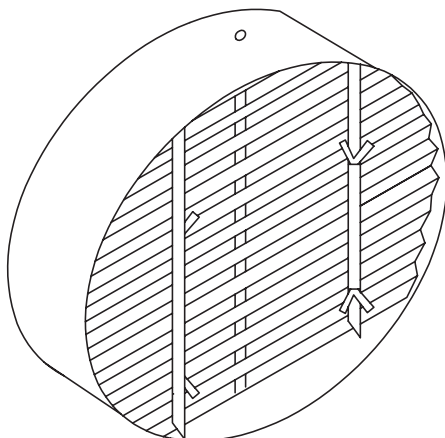
Typical 151C Vertical Damper



Typical 151C Horizontal Damper



Open



Closed

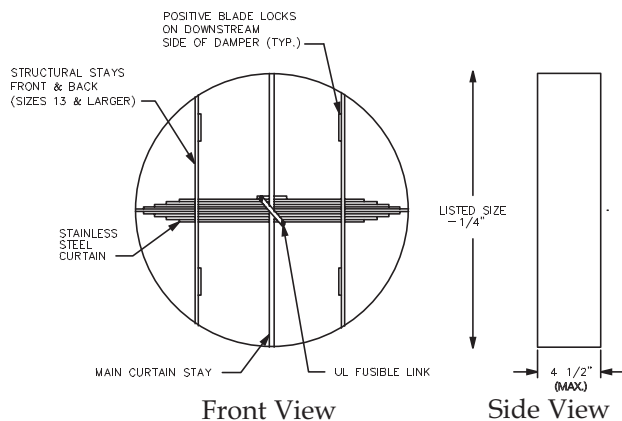
Model US-3 - True Round

*Curtain Type Fire Damper - UL555 Classification
Horizontal and Vertical, 1½ Hour Rating*



Features

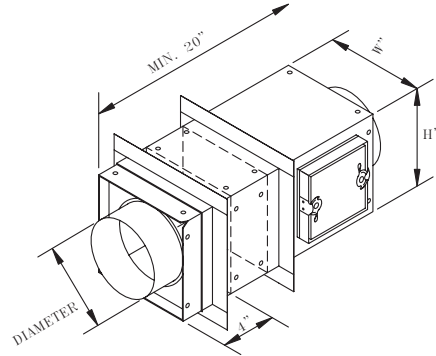
- Designed with a constant force stainless steel curtain in both vertical and horizontal configurations to ensure closure under airflow conditions. Can also be used in static system applications.
- Meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- 1½ hours for use in fire barriers rated two hours or less.



LISTED SIZE AVAILABILITY (Diameter Inches)	
Minimum	Maximum
4"	12"

NOTE: 4" to 12" diameter in one inch increments.

BIRDCAGE FIRE DAMPER ASSEMBLY



Features

- Dynamic fire rated damper (model 151A or 151B).
- Minimum Sleeve length 20".
- Square cam-lock access door included.
- Standard 4" offset from the edge of the sleeve to the fire damper frame.
- Picture frame mounting angles included.



AVAILABLE SIZES Inches (W x H)

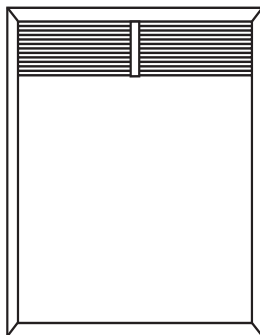
Part No (151A)	Part No (151B)	Fire Damper Size	Collar Size	Door Size	Sleeve Size
151A060604BC	151B060604BC	6" x 6"	4"	6" x 6"	20"
151A080806BC	151B080806BC	8" x 8"	6"	6" x 6"	20"
151A101008BC	151B101008BC	10" x 10"	8"	8" x 8"	20"
151A121210BC	151B121210BC	12" x 12"	10"	8" x 8"	20"
151A141412BC	151B141412BC	14" x 14"	12"	10" x 10"	20"
151A161614BC	151B161614BC	16" x 16"	14"	12" x 12"	22"
151A181816BC	151B181816BC	18" x 18"	16"	14" x 14"	24"
151A202018BC	151B202018BC	20" x 20"	18"	16" x 16"	28"
151A222220BC	151B222220BC	22" x 22"	20"	16" x 16"	28"

NOTE: All fire dampers are available in 1/4" increments.
Refer to page 14 for sizing chart.

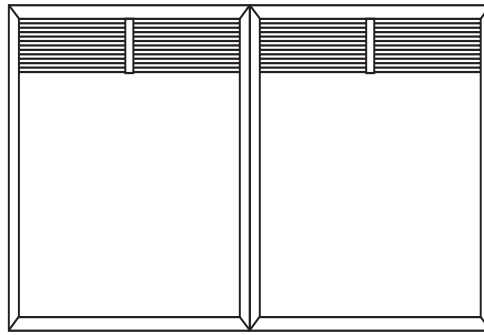
Maximum Size Availability, Width x Height

STATIC SYSTEM APPLICATION DAMPERS				
Model	Mounting Position	Single Piece	Two Piece (Vertical)	Four Piece
150E	Vertical	41" x 36"	N/A	N/A
150E	Horizontal/Vertical	41" x 36"	N/A	N/A
150F	Vertical	48" x 36"	N/A	N/A
DYNAMIC SYSTEM APPLICATION DAMPERS				
Model	Mounting Position	Single Piece		
151A	Horizontal/Vertical	24" x 24"		
151B	Horizontal/Vertical	24" x 24"		
151C	Horizontal/Vertical	22" Round		
US-3	Horizontal/Vertical	12" Round		

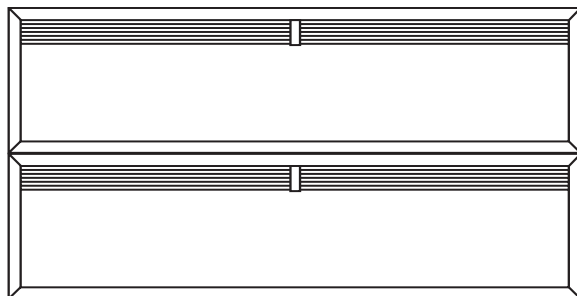
NOTE: All fire dampers are available in 1/4" increments.



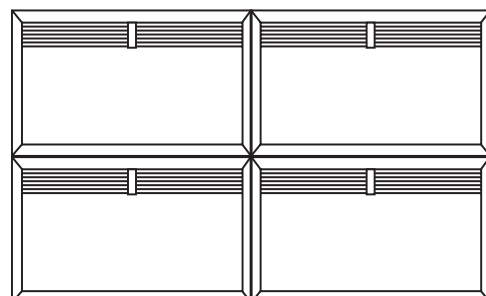
Single Piece Construction



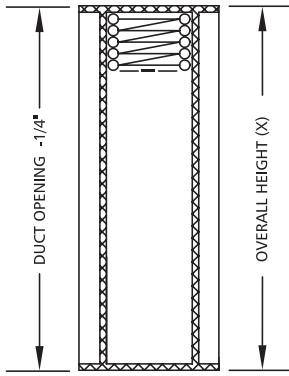
Two Piece Construction (Vertical)



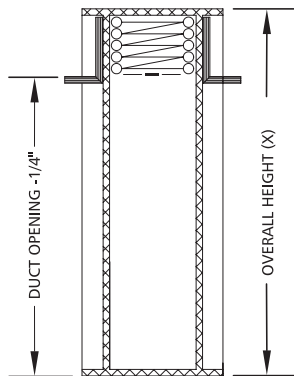
Two Piece Construction (Vertical)



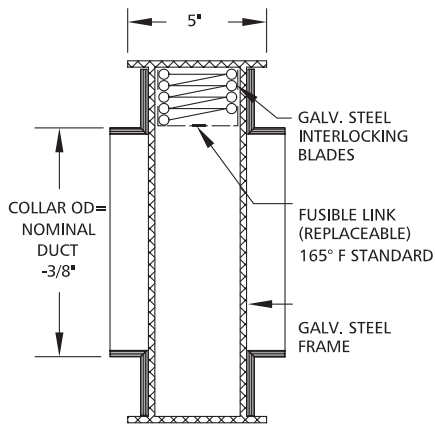
Four Piece Construction



Types A, E and F



Type B



Type C

Duct Opening/ Nominal Size	Type A, E, & F Overall Height (x)	Type B Overall Height (x)	Type C Overall Height (x)
4"	3 ¹ / ₄ "	5 ¹ / ₄ "	6 ¹ / ₄ "
5"	4 ¹ / ₄ "	6 ¹ / ₄ "	7 ¹ / ₄ "
6"	5 ¹ / ₄ "	7 ¹ / ₄ "	8 ¹ / ₄ "
7"	6 ¹ / ₄ "	8 ¹ / ₄ "	9 ¹ / ₄ "
8"	7 ¹ / ₄ "	9 ¹ / ₄ "	10 ¹ / ₄ "
9"	8 ¹ / ₄ "	10 ¹ / ₄ "	11 ¹ / ₄ "
10"	9 ¹ / ₄ "	11 ¹ / ₄ "	12 ¹ / ₄ "
11"	10 ¹ / ₄ "	12 ¹ / ₄ "	13 ¹ / ₄ "
12"	11 ¹ / ₄ "	13 ¹ / ₄ "	14 ¹ / ₄ "
13"	12 ¹ / ₄ "	14 ¹ / ₄ "	15 ¹ / ₄ "
14"	13 ¹ / ₄ "	15 ¹ / ₄ "	16 ¹ / ₄ "
15"	14 ¹ / ₄ "	16 ¹ / ₄ "	17 ¹ / ₄ "
16"	15 ¹ / ₄ "	18 ¹ / ₄ "	19 ¹ / ₄ "
17"	16 ¹ / ₄ "	19 ¹ / ₄ "	20 ¹ / ₄ "
18"	17 ¹ / ₄ "	20 ¹ / ₄ "	21 ¹ / ₄ "
19"	18 ¹ / ₄ "	21 ¹ / ₄ "	22 ¹ / ₄ "
20"	19 ¹ / ₄ "	22 ¹ / ₄ "	23 ¹ / ₄ "
21"	20 ¹ / ₄ "	23 ¹ / ₄ "	24 ¹ / ₄ "
22"	21 ¹ / ₄ "	24 ¹ / ₄ "	N/A
23"	22 ¹ / ₄ "	N/A	N/A
24"	23 ¹ / ₄ "	N/A	N/A
25"	24 ¹ / ₄ "	N/A	N/A
26"	25 ¹ / ₄ "	N/A	N/A
27"	26 ¹ / ₄ "	N/A	N/A
28"	27 ¹ / ₄ "	N/A	N/A
29"	28 ¹ / ₄ "	N/A	N/A
30"	29 ¹ / ₄ "	N/A	N/A
31"	30 ¹ / ₄ "	N/A	N/A
32"	31 ¹ / ₄ "	N/A	N/A
33"	32 ¹ / ₄ "	N/A	N/A
34"	33 ¹ / ₄ "	N/A	N/A
35"	34 ¹ / ₄ "	N/A	N/A
36"	35 ¹ / ₄ "	N/A	N/A

NOTES:

- Type A, E and F Damper Overall Width = Duct Opening / Nominal Size - 1/4".
- Type B Damper Overall Width = Duct Opening / Nominal Size - 1/4".
- Type C Damper Overall Width = Duct Opening / Nominal Size + 2".
- Verify maximum size availability for each model from table on page 13.
- All fire dampers are available in 1/4" increments.

Dynamic Fire Damper Description

Miami Tech offers a complete line of dynamically rated, as well as statically rated fire dampers. Underwriters Laboratories (UL) Standard for Safety 555 categorizes smoke and fire control systems as either static and dynamic. UL555 defines dampers intended to close under no airflow conditions as dampers for static systems, and dampers intended to close under flow conditions as dampers for dynamic systems.

All fire dampers are labeled indicating whether they are to be used in a static or dynamic system. For dynamically rated dampers, the label indicates airflow direction, maximum rated velocity through the open damper, and the maximum pressure differential across the closed damper.

Dynamic Fire Damper Ratings

The following figures represent the approved flow ratings for dynamically rated dampers in various mounting arrangements.

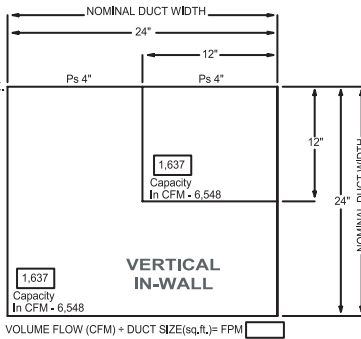


FIGURE 1

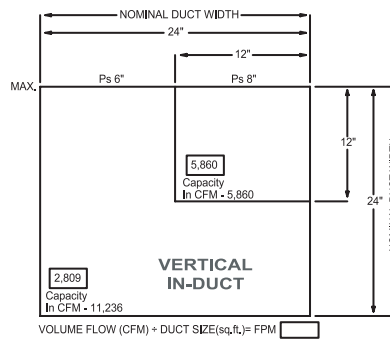


FIGURE 2

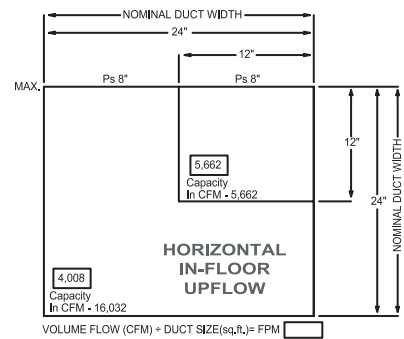


FIGURE 3

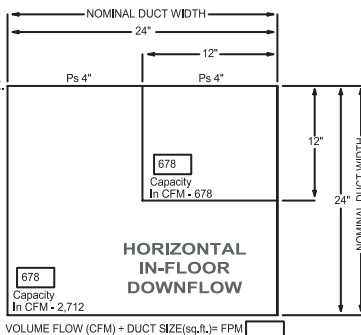


FIGURE 4

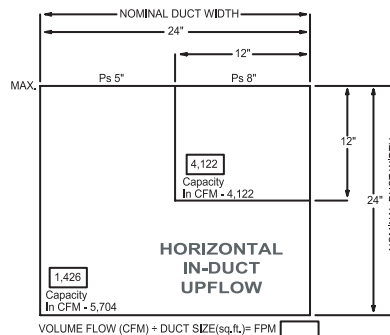


FIGURE 5

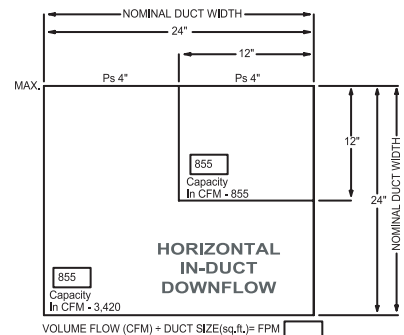


FIGURE 6

- When ordering fire dampers, designate the appropriate model number to specify static or dynamic rating (see Model Order Guidelines below).
- When ordering dynamically rated fire dampers**, also refer to Figures 1 through 6 on page 15. When duct sizes are larger than the sizes shown, multiple unit assemblies are required. Since each individual damper in the assembly has its own heat responsive device, it must be assumed that each damper will close at slightly different times. Because of this, Underwriters Laboratories requires that the total volume of air for the assembly must not exceed the allowable rating of the smallest unit in the assembly.

Example:

A Model 151A 24" x 24" is ordered to be installed in a Vertical In-Duct position (see Figure 2). This unit shall be assembled in (1) 24" x 24" section, which according to the table, is rated for an air volume of 11,236 CFM with an air velocity of 2,809 FPM and a static pressure (Ps) of 6" w.g. Therefore, the 24" x 24" unit will have a maximum air volume of no more than 11,236 CFM with an air velocity of 2,809 FPM and a static pressure (Ps) of 6" w.g.

- For CFM of a Round Collar unit (Type C), multiply the CFM in the appropriate Figures by .785.

MODEL ORDERING GUIDELINES

Square and Rectangular Fire Dampers

Model	Type	Width (inches)	Height (inches)	Collar Size (C only)	Fusible Link Rating (°F)
1 5 X Static----0 Dynamic----1	X 	X X Specify	X X Specify	X X Specify	X X L1 165° L2 212°
Blades in Airstream --- A Blades Out of Airstream --- B High Pressure --- C Slimline (1½ hour) --- E Slimline (3 hour) --- F					

Round Fire Dampers

Model	Diameter (inches)
U S 3	X X Specify

Note:
For Model 150E, please specify mounting position V(vertical) or H (horizontal).

Description:

Curtain-type fire dampers are designed to restrict the spread of fire through ventilation systems by shutting when the link melts. Fire dampers are evaluated for use in either Static applications (For HVAC Systems that are automatically shut down in the event of a fire) or Dynamic applications (For HVAC Systems that continue to operate in the event of a fire).

Required Information:

1. Please specify dimensions of the damper:
Width (inches) x Height (inches)

_____ x _____

Notes:

For Round dampers, specify diameter.

Dampers are manufactured 1/4" undersized, unless actual size is requested. Please refer to sizing chart (page 14).

2. Please select model number:

- 151A** -Dynamic Fire Damper, Blades **in** the airstream. (1-1/2 Hour fire-rated)
- 151B** -Dynamic Fire Damper, Blades **out** of airstream. (1-1/2 Hour fire-rated)
- 151C** -Dynamic Fire Damper with round transitions. (1-1/2 Hour fire-rated)
- 150E** - Static SlimLine Fire Damper, Blades **in** the airstream. (Vertical /Horizontal 1-1/2 Hour fire-rated)
- 150F** - Static SlimLine Fire Damper, Blades **in** the airstream. (Vertical 3 Hour fire-rated)

3. Please specify temperature of fusible link:

- 165° F** (Standard)
- 212° F** (Optional)

4. Are factory-installed sleeves required? **Y/N**

If so, Please specify length: _____

Notes:

Available length: 8", 10", 12", 14", 16", 18", 20", 24".

Standard sleeve is 12" in length, 22gauge. As a default, fire dampers are installed centered in the sleeve. Off-center installation is available upon request.

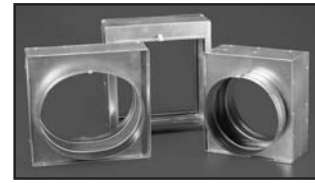
5. Are pre-cut mounting angles required? **Y/N**

Notes: Set includes 4 individual angles per side, 8 in total.

Replacement Links:

REPLACEMENT FUSIBLE LINKS	
Part No.	Application
FL-165-JS	165°F- For use in models 150E and 150F
FL-165-GS	165°F- For use in models 151A, 151B, 151C

Also available in 212° F.



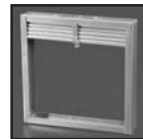
151C



151B



151A



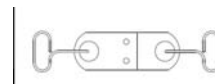
150E/ 150F



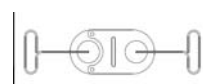
US3



BIRDCAGE



FL-165-GS



FL-165-JS



Description:

Butterfly-style ceiling radiation dampers are installed in the air distribution portion of a fire-rated ceiling assembly; the sole purpose of which is to help maintain the fire endurance rating of the assembly. A ceiling radiation damper shuts automatically to restrict the passage of heat.



615

Required Information:

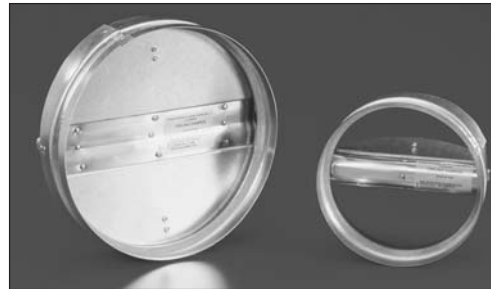
1. Please specify dimensions of the damper:
Width (inches) x Height (inches)

_____ x _____

Notes:

For Round dampers, specify diameter.

Dampers are manufactured $\frac{1}{4}$ " undersized, unless actual size is requested.



616

2. Please select model number:

- 615 -Square or Rectangular Ceiling Radiation Damper
- 616 -Round Ceiling Radiation Damper

3. Please specify temperature of fusible link:

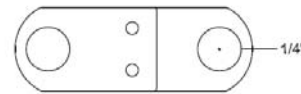
- 165° F (Standard)
- 212° F (Optional)

4. Are factory-installed sleeves required? **Y/N**
If so, Please specify length: _____

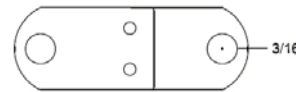
Notes:

Available length: 8", 10", 12", 14", 16", 18", 20", 24".
Standard sleeve is 12" in length, 22gauge. As a default, fire dampers are installed centered in the sleeve. Off-center installation is available upon request.

5. Are pre-cut mounting angles required? **Y/N**



FL-165-J14

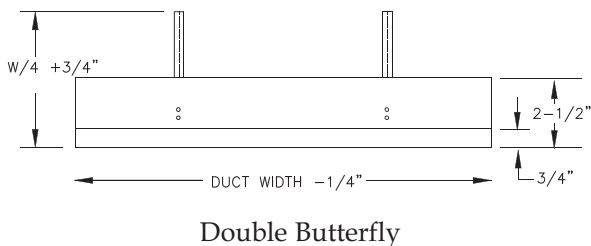
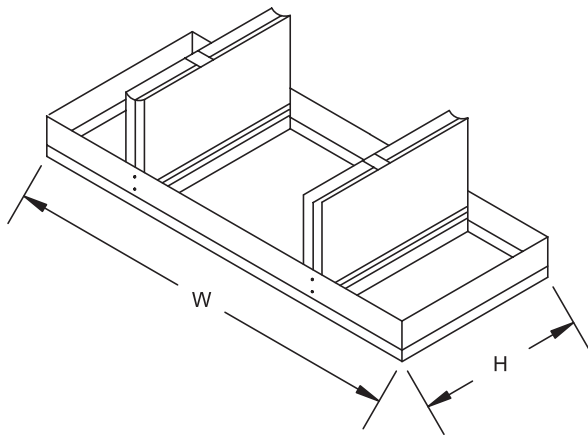
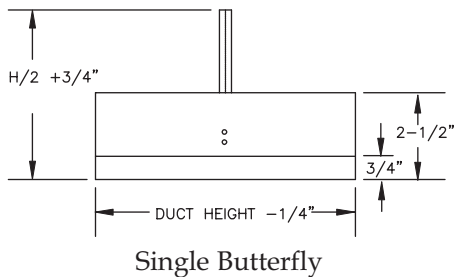
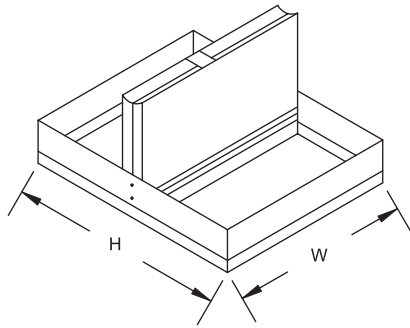


FL-165-J316

REPLACEMENT FUSIBLE LINKS	
Part No.	Application
FL-165-J14	165°F- For use in models 616, Diameter: 4" - 7". For use in models 615, Height: 4" - 7".
FL-165-J316	165°F- For use in models 616, Diameter: 8" and larger. For use in models 615, Height: 8" and larger.

Also available in 212° F.





AVAILABLE SIZES, Inches (W x H)			
Single Butterfly		Double Butterfly	
Minimum	Maximum	Minimum	Maximum
6" x 4"	18" x 18"	20" x 20"	24" x 24"

NOTE: All fire dampers are available in 1/4" increments.

Model 615

Ceiling Radiation Damper – UL555 Classification
Square and Rectangular



Standard Construction

- **Frame:** Minimum 22 gauge galvanized steel.
- **Blades:** Minimum 22 gauge galvanized steel.
- **Springs:** Tempered stainless steel.
- **Fusible Link:** UL Listed 165° Standard or 212° Optional
- **Thermal Barrier:** Non-asbestos ceramic blanket.

Features

- UL Fire Rated Floor/Ceiling Assemblies and Roof/Ceiling assemblies require specially tested and classified ceiling dampers (also called Ceiling Fire Dampers or Heat Radiation Dampers) to provide proper protection where HVAC components penetrate the ceiling membrane. Standard primary fire dampers (1 1/2 hour and 3 hour) **do not** provide the necessary fire and heat protection.
- UL classified Model 615 ceiling damper may be substituted for each 113 square inch or larger steel duct outlet protected with a hinged sheet metal damper in any floor or roof/ceiling design with a restrained or unrestrained assembly rating of 3 hours or less.
- Thermal barrier supplied on units larger than 70 square inches. Smaller sizes do not require thermal barrier on blades.

UL File No. 10967

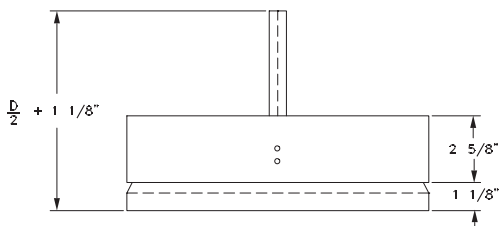
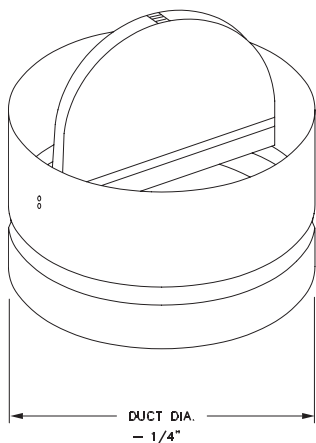
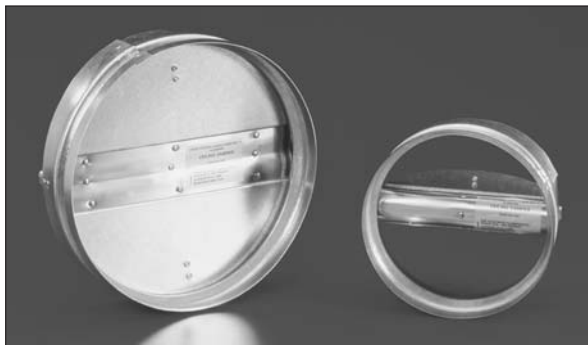


MODEL 616

CEILING DAMPERS

Model 616

Ceiling Radiation Damper – UL555 Class. Round



Standard Construction

- **Frame:** Minimum 22 gauge galvanized steel.
- **Blades:** Minimum 22 gauge galvanized steel, curtain type.
- **Springs:** Tempered stainless steel.
- **Fusible Link:** UL Listed 165° Standard or 212° Optional
- **Thermal Barrier:** Non-asbestos ceramic blanket.

Features

- UL Fire Rated Floor/Ceiling Assemblies and Roof/Ceiling assemblies require specially tested and classified ceiling dampers (also called Ceiling Fire Dampers or Heat Radiation Dampers) to provide proper protection where HVAC components penetrate the ceiling membrane. Standard primary fire dampers (1 1/2 hour and 3 hour) **do not** provide the necessary fire and heat protection.
- UL classified Model 616 ceiling damper may be substituted for each 113 square inch or larger steel duct outlet protected with a hinged sheet metal damper in any floor or roof/ceiling design with a restrained or unrestrained assembly rating of 3 hours or less.
- Thermal barrier supplied on units larger than 70 square inches. Smaller sizes do not require thermal barrier on blades.

AVAILABLE SIZES (Diameter Inches)	
Minimum	Maximum
4"	24"

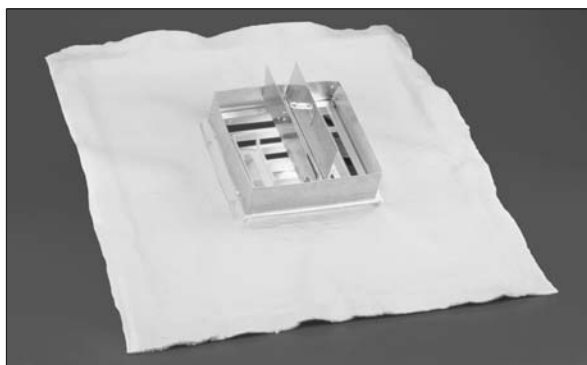
UL File No. 10967



MODEL FCB

CEILING DAMPER ACCESSORIES

Model FCB, Fire Ceramic Blanket



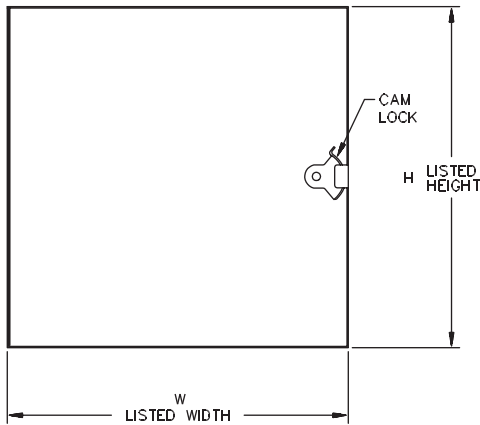
Description

Lay-in diffusers or grilles supporting ceiling dampers must include a thermal blanket for adequate protection. The Miami Tech thermal blanket is constructed of the following:

- 1/4" thick KAOWOOL® ceramic fiber
- 8 lbs./ft³ density.
- Designed with field cut center for any diffuser or grille neck size.

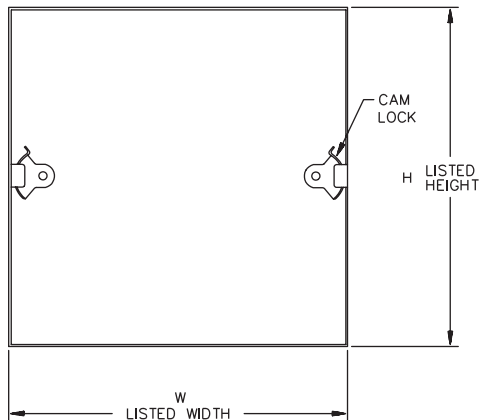
Also available in 1/2" .

Model FSA100 Hinged Access Door for Metal Duct

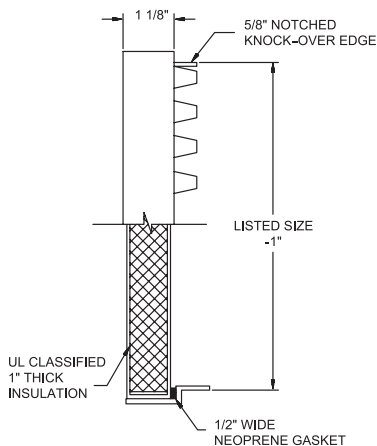


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

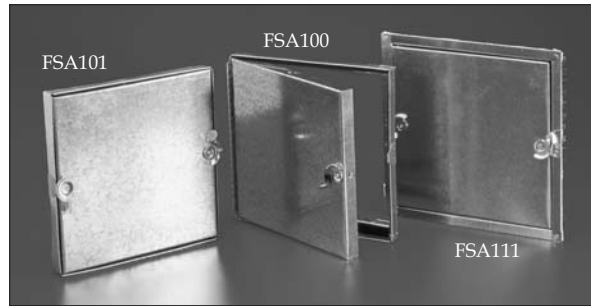
Model FSA101 All Cam Lock Access Door for Metal Duct



Cam lock doors larger than 14 x 14" have a minimum of four cam locks.



Model FSA100 and FSA101 Access Door for Metal Duct



Description

- Miami Tech Model FSA100 and FSA101 access doors are designed for quick installation in metal duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

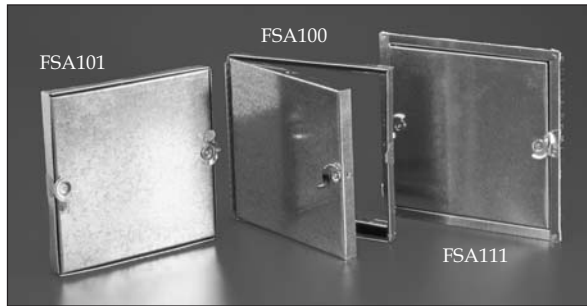
Standard Construction

- **Frame:** 24 gauge galvanized steel roll formed with pre-notched "knock over" edges for easy installation.
- **Door:** 24 gauge edge riveted galvanized steel front and back face containing 1" UL classified insulation.
- All FSA101 access doors are built with safety chain to secure door to frame.
- **Hinge:** Pivot type hinge top and bottom for rigidity.
- **Closure:** All cam locks are zinc plated steel.
- **Opening:** Duct cutout is 1" less than listed size.

AVAILABLE SIZES, Inches (H x W)	
Minimum	Maximum
6" x 6"	24" x 24"

Size	Box Qty
6" x 6"	10
8" x 8"	10
10" x 10"	10
12" x 12"	10
14" x 14"	5
16" x 16"	5
18" x 18"	5
20" x 20"	5
22" x 22"	5
24" x 24"	5

Model FSA110 and FSA111 Access Door for Fiberglass Duct



Description

- Miami Tech Model FSA110 and FSA111 access doors are designed for quick installation in fiberglass duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

Standard Construction

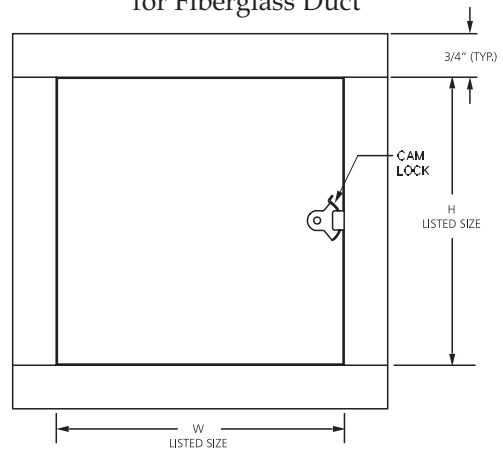
- **Frame:** 24 gauge galvanized steel roll formed with 1/8" x 1" double backed adhesive on inside of flange.
- **Door:** 24 gauge edge riveted galvanized steel front and back face containing 1" UL classified insulation.
- All FSA111 access doors are built with safety chain to secure door to frame.
- **Hinge:** Pivot type hinge top and bottom for rigidity.
- **Closure:** All cam locks are zinc plated steel.
- **Opening:** Duct cutout is 1" less than listed size.

AVAILABLE SIZES, Inches (H x W)

Minimum	Maximum
6" x 6"	24" x 24"

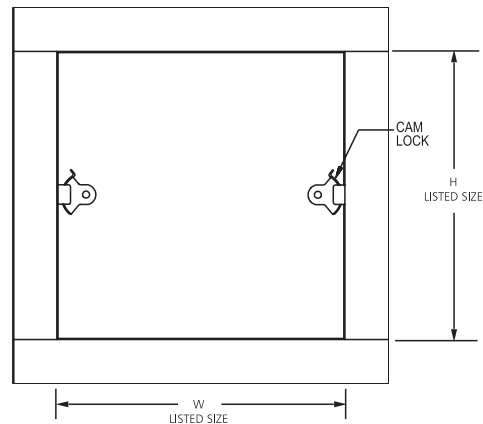
Size	Box Qty
6" x 6"	10
8" x 8"	10
10" x 10"	10
12" x 12"	10
14" x 14"	5
16" x 16"	5
18" x 18"	5
20" x 20"	5
22" x 22"	5
24" x 24"	5

Model FSA110 Hinged Access Door for Fiberglass Duct

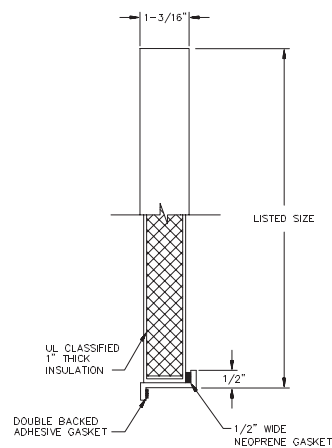


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

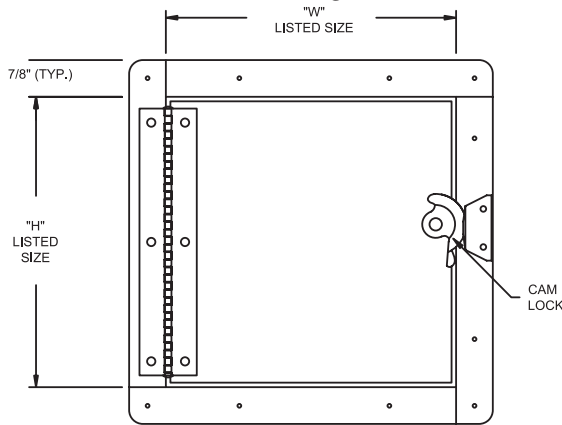
Model FSA111 All Cam Lock Access Door for Fiberglass Duct



Cam lock doors larger than 14 x 14" have a minimum of four cam locks.

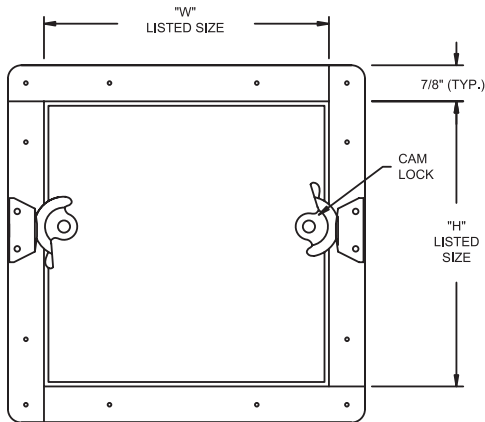


Model FSA115 Hinged Access Door for Metal or Fiberglass Duct

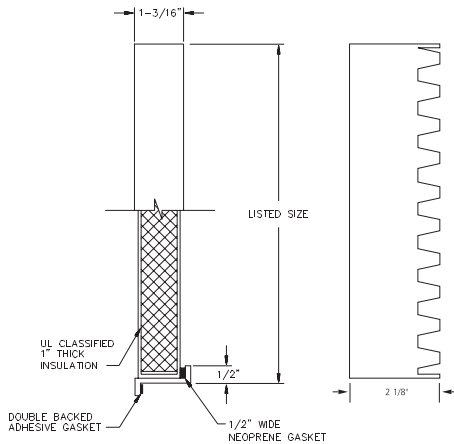


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

Model FSA116 All Cam Lock Access Door for Metal or Fiberglass Duct



Cam lock doors larger than 14 x 14" have a minimum of four cam locks.



Model FSA115 and FSA116 Access Door for Metal Duct



Description

- Miami Tech Model FSA115 and FSA116 access doors are designed for quick installation in metal or fiberglass duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

Standard Construction

- **Door Frame:** 24 gauge galvanized steel roll formed.
- **Door:** 24 gauge edge riveted galvanized steel front and back face containing 1" UL classified insulation.
- All FSA116 access doors are built with safety chain to secure door to frame.
- **Hinge:** Pivot type hinge top and bottom for rigidity.
- **Closure:** All cam locks are zinc plated steel.
- **Opening:** Duct cutout is 1" less than listed size.
- **Sleeve Frame:** 24 gauge galvanized steel roll formed with pre-notched "knock over" edges for easy installation.
- Custom sizes available.

AVAILABLE SIZES, Inches (H x W)	
Minimum	Maximum
6" x 6"	24" x 24"

Size	Box Qty
6" x 6"	10
8" x 8"	10
10" x 10"	10
12" x 12"	10
14" x 14"	5
16" x 16"	5
18" x 18"	5
20" x 20"	5
22" x 22"	5
24" x 24"	5

MODEL FSA125SM AND FSA126SM

ACCESS DOORS

Model FSA125SM and FSA126SM

Access Door for Metal or Fiberglass Duct (Surface Mount)



Description

- Miami Tech Model FSA125SM and FSA126SM access doors are designed for quick installation in metal or fiberglass duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

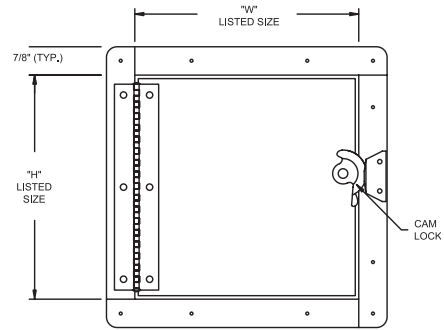
Standard Construction

- **Frame:** 24 gauge hot-dipped galvanized steel roll formed with 1/6" x 1 1/2" double backed adhesive on inside of flange.
- **Door:** 24 gauge edge riveted galvanized steel front and back face containing 1" UL classified insulation.
- All FSA126SM access doors are built with safety chain to secure door to frame.
- **Hinge:** Pivot type hinge top and bottom for rigidity.
- **Closure:** All cam locks are zinc plated steel.
- **Opening:** Duct cutout is actual listed size.

AVAILABLE SIZES, Inches (H x W)

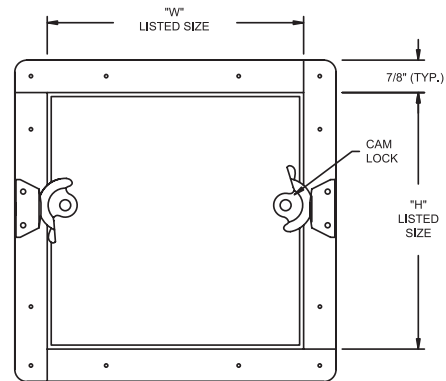
Minimum	Maximum
6" x 6"	24" x 24"

Model FSA125SM Hinged Access Door for Metal or Fiberglass Duct

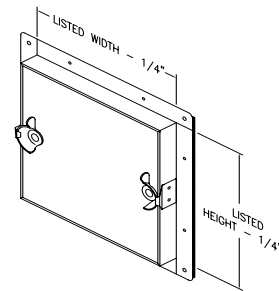


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

Model FSA126SM All Cam Lock Access Door for Metal or Fiberglass Duct



Cam lock doors larger than 14 x 14" have a minimum of four cam locks.



MODEL FSASMF

ACCESSORIES

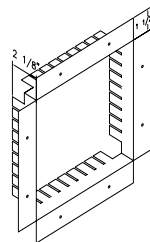
Description

- **Surface Mount Crown Frame:** 24 gauge galvanized steel roll formed with pre-notched "knock-over" edges for easy installation.
- Optional accessory kit for fiberglass duct installation.

Note: Sold separately.

AVAILABLE SIZES, Inches (H x W)

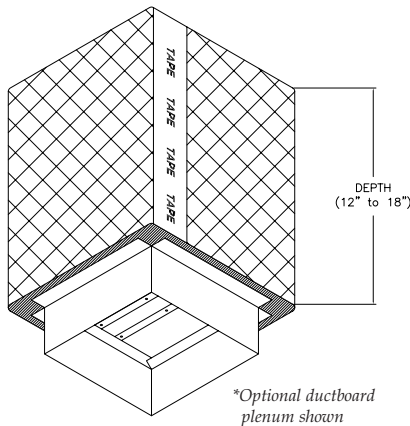
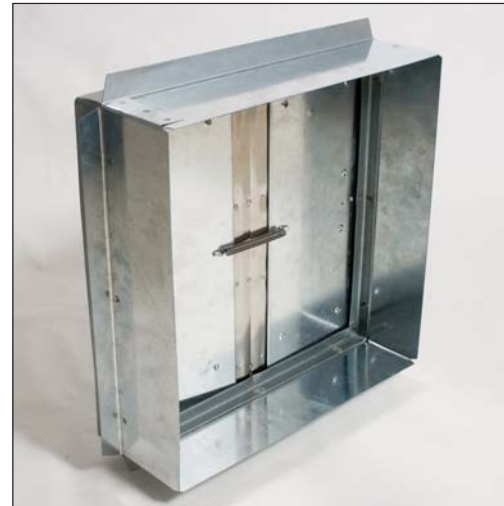
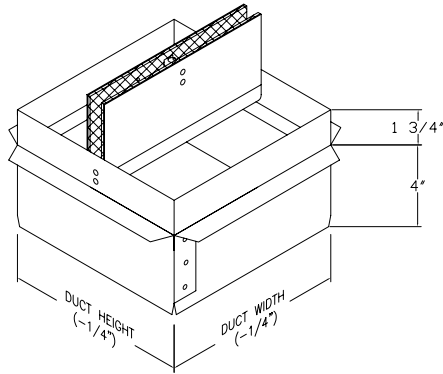
Minimum	Maximum
6" x 6"	24" x 24"



FSASMF

Model CRPD

Ceiling Radiation Plenum Damper



Ceiling Radiation Plenum Damper

- UL-listed fusible link (165° F Standard).
- 22 ga. galvanized steel construction.

Features

- UL classified.
- Designed to function as a heat barrier in air handler openings in fire resistant membrane ceilings.
- UL approved for use in design types L-528, L-546, L-558, L-562, L-563, M-516 and P-544 (equivalent design applications: L-521, L-550, L-586, and P-522).
- Available with R-6 or R-8 ductboard plenum installed with depths 12" through 18".
- 1" perimeter flange provided for boot clip or angle installation.

Options

- Special sizes available upon request.
- Insulation: available in R-6 or R-8.

UL File No. 10967



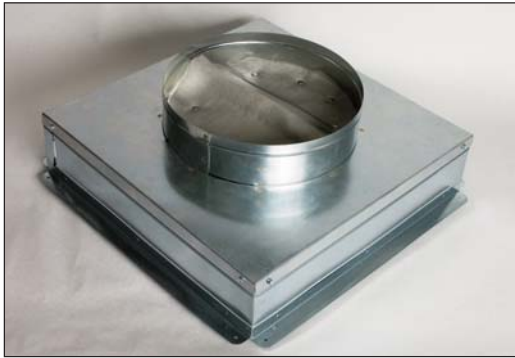
AVAILABLE SIZES, Inches (WxH)	
Minimum	Maximum
6" x 4"	16" x 16"

MODEL R6CRD

CEILING RADIATION DAMPER BOX

Model CRD

Ceiling Radiation Damper Box



Ceiling Radiation Damper

- UL-listed fusible link (165° F Standard).
- Blades 22 ga. galvanized steel.
- Roll-formed round frame 22 ga. galvanized steel.

Plenum Box

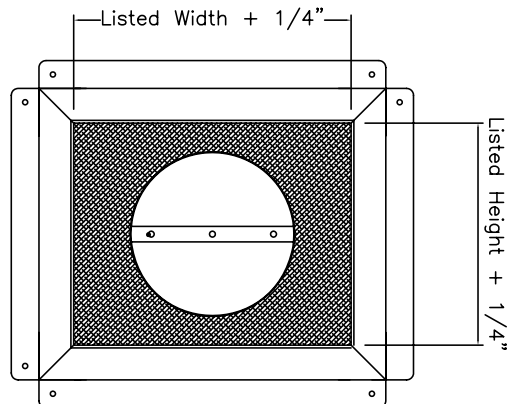
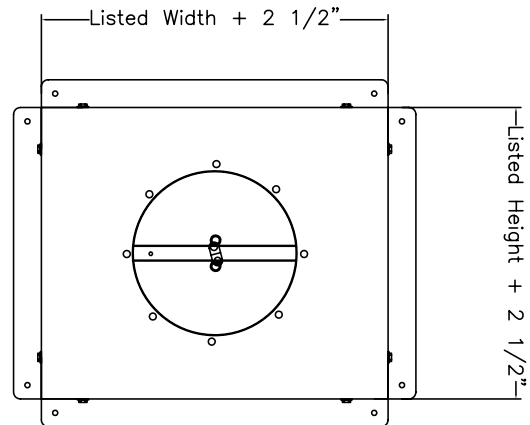
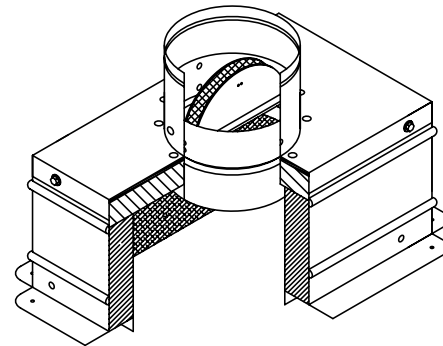
- Outer box: 30 ga. galvanized steel.
- Collar: Roll-formed 28 ga. galvanized steel with roll-formed 1/4" beading.
- Insulation: Fiberglass diffuser-board 1 1/2" thick.

Features

- UL classified.
- Body case is fabricated from hot dipped G60 galvanized steel sheets as per ASTM A-653.
- UL approved for use in design types L-528, L-546, L-558, L-562, L-563, M-516 and P-544 (equivalent design applications: L-521, L-550, L-586, and P-522).
- Box design includes 1/2" drywall lip.
- Overall assembly height is 7.75".
- Dual bead box design for added strength.
- No assembly, ready to mount.

Options

- Special sizes available upon request.
- Plaster ground extension available in 1", 1 1/2", and 2".
- Insulation: available in R-6 or R-8.



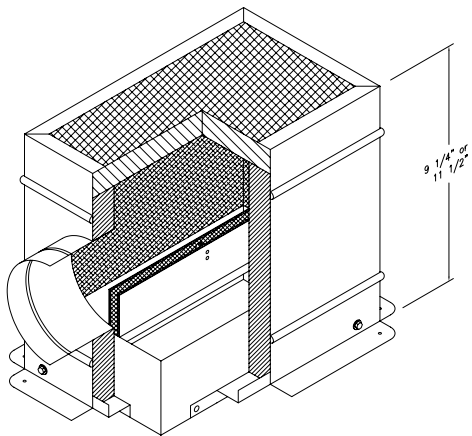
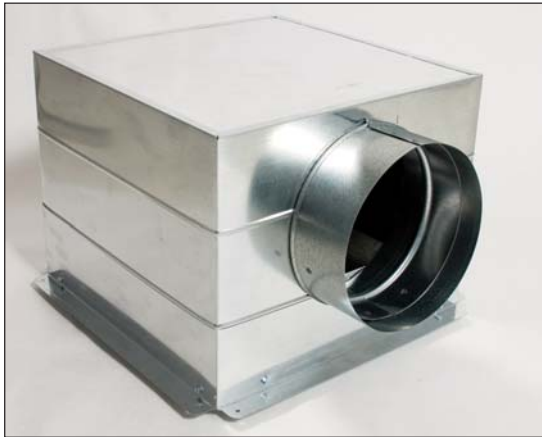
Minimum	Maximum	Outlet Size	Box Height
4" x 4"	16" x 16"	4" - 12"	4.5"

UL File No. 10967



Model CRDS

Ceiling Radiation Damper Box



Ceiling Radiation Damper

- UL-listed fusible link (165° F Standard).

Features

- UL classified.
- Designed to function as a heat barrier in air outlets in fire resistant membrane ceilings.
- UL approved for use in design types L-528, L-546, L-558, L-562, L-563, M-516 and P-544 (equivalent design applications: L-521, L-550, L-586, and P-522).
- 1" perimeter flange provided for boot clip or angle installation.
- Opening 1/4" oversized to accommodate register/grille.
- Approved for use with steel and aluminum grilles/registers.
- Body case is fabricated from hot dipped G60 galvanized steel sheets as per ASTM A-653.
- No assembly, ready to mount.

Options

- Available collar diameters: 4" - 12".
- Box depth is 11 1/2" for collars over 8". All others are 9 1/4".
- Damper surface depth is min 3" from drywall lip.
- Special sizes available upon request.
- Plaster ground extension available in 1", 1 1/2", and 2".
- Insulation: available in R-6 or R-8.

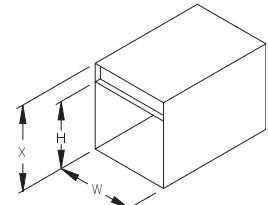
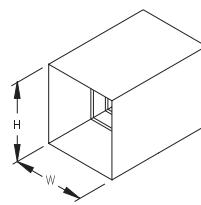
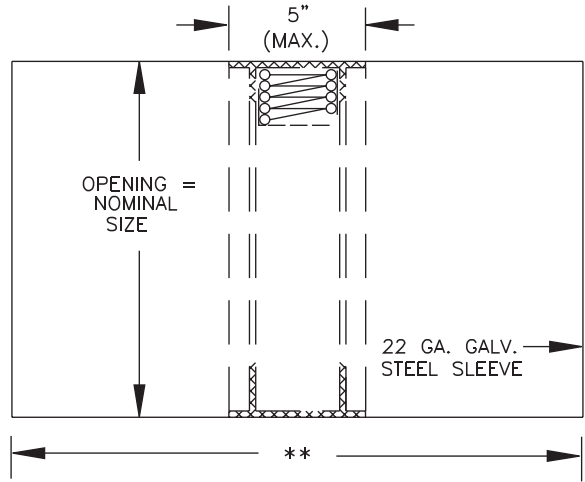
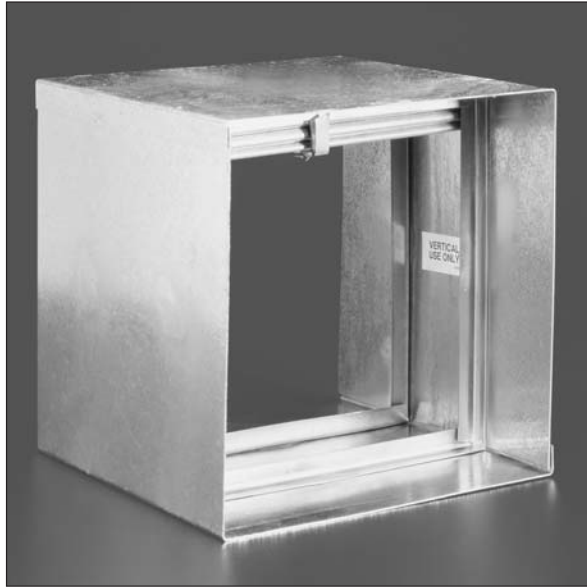
AVAILABLE SIZES, Inches (WxH)

Minimum	Maximum
6" x 4"	16" x 16"

UL File No. 10967

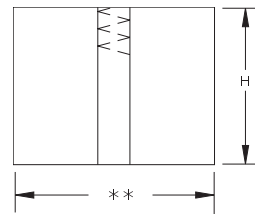


Fire Damper Sleeves - Fixed

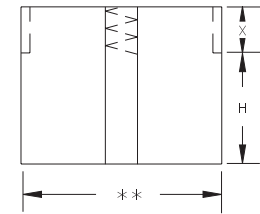


Features

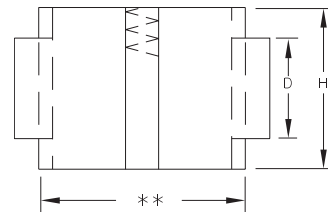
- Standard 22 gauge galvanized steel sleeves for use with Type A, B and C curtain type fire dampers. Assembled at the factory, each fire damper/sleeve ensures appropriate UL approved installation.
- Available for both static and dynamic system applied fire dampers.
- Assembly meets all UL and NFPA requirements for **Primary Fire Dampers**, and carries a UL555 classified fire damper label. **Approved for use where ducts penetrate partitions with fire resistance ratings of two hours or less.**
- Dampers are mounted in the center of the sleeve as standard. Optional off-center mounting locations are also available.



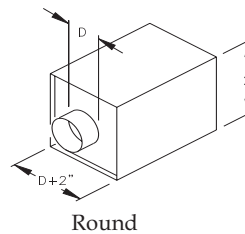
Type A



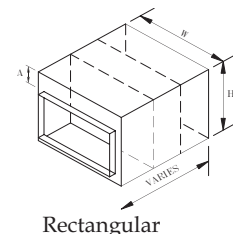
Type B



Types C



Round



Rectangular



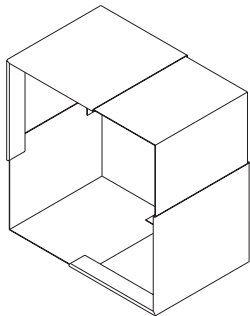
W = Width (Duct). H = Height (Duct). D = Duct Diameter - 1/4". X = Variable (see Dimensional Data on page 14).
 *Dampers normally fabricated approximately 1/4" less than given opening dimensions to accommodate duct connections.
 ** Available in 8", 12", 14", 16", 18", 20" and 24" lengths.

OPTIONAL ACCESSORIES

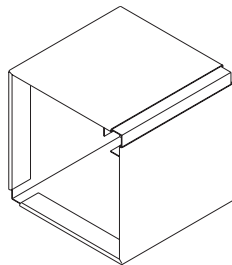
MODEL ADS – ADJUSTABLE SLEEVE

Features

- Adjustable sleeves for all 150 Series fire dampers allow stocking of one sleeve to accommodate a multitude of damper sizes.
- Available in four base sizes, the Model 8 can accommodate square or rectangular dampers from 8" x 8" through 12" x 12". Model 12 can accommodate dampers from 12" x 12" through 16" x 16". Model 16 can accommodate dampers from 16" x 16" through 18" x 18". Model 18 can accommodate dampers from 18" x 18" through 22" x 22".
- Standard configurations use 22 gauge galvanized steel in 12" lengths. Custom sizes and gauges are also available.

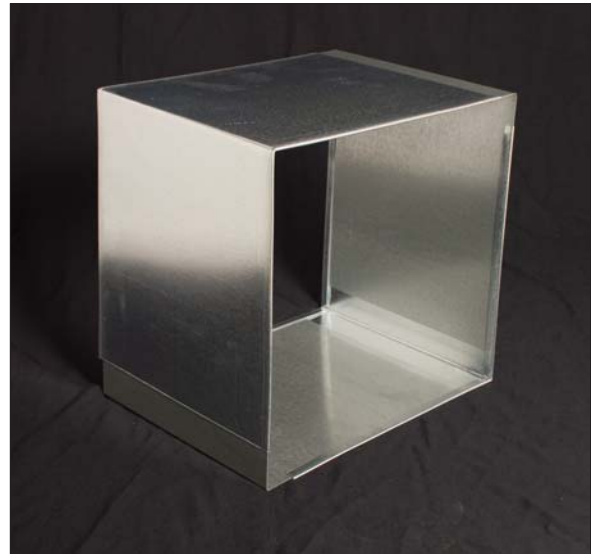


Fully Expanded



Minimum Size

Fire Damper Sleeve – Adjustable

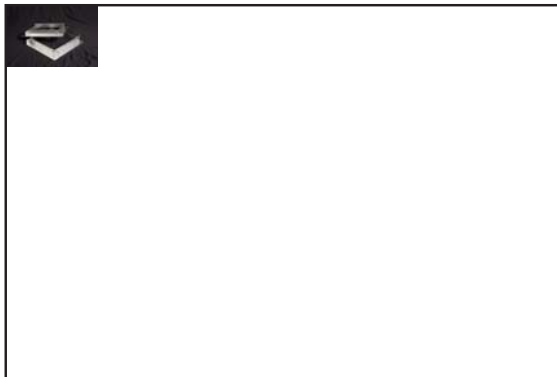


MODEL PFA – PICTURE FRAME ANGLE

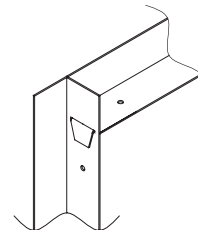
OPTIONAL ACCESSORIES

Features

- Retaining angles are required to ensure correct installation per UL instructions.
- All retaining angles are manufactured for each individual fire damper to ensure correct size.
- Standard angles are manufactured of 1 1/2" x 1 1/2" x 16 gauge galvanized steel.
- Angles are shipped loose with each individual damper.



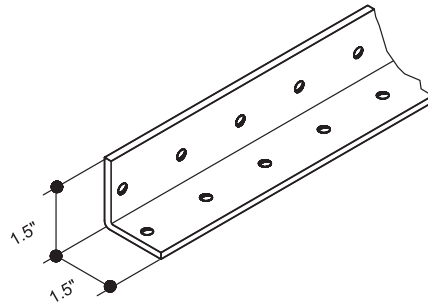
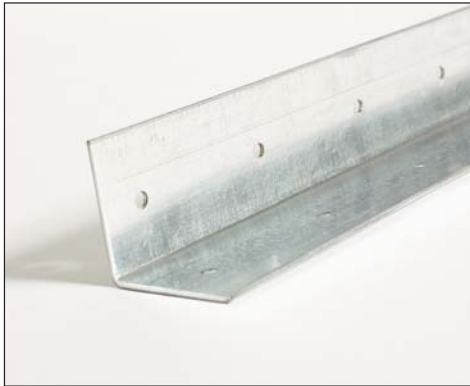
Fire Damper Angles



ANGLES

OPTIONAL ACCESSORIES

RDB Mounting Angles Model: RDBSA & RDBSA10



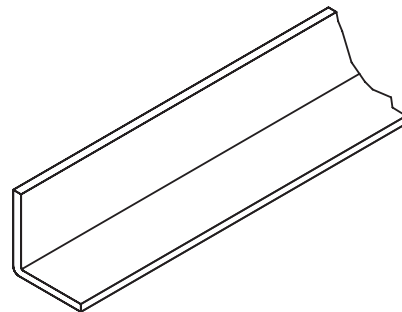
AVAILABLE SIZES, Inches (1.5" x 1.5")

Part No.	Size	Bundle Qty.
RDBSA	26"	10 pcs
RDBSA10	10'	100 ft

Features

- Custom sizes available.
- Standard 16 gauge.

Mounting Angles Model: MA1, MA15, & MA2



AVAILABLE SIZES, Inches (H x W)

Part No.	Size	Ga.	Length	Qty
MA261-10	1" x 1"	26	10'	50'
MA2615-10	1.5" x 1.5"	26	10'	50'
MA2222-10	2" x 2"	22	10'	50'
MA1615-10	1.5" x 1.5"	16	10'	50'

Features

- Available in 26" long.
- Available in 10' long.
- Various sizes available.
- Various gauges available.

Part No.	Size	Ga.	Length	Qty
MA261	1" x 1"	26	26"	10




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