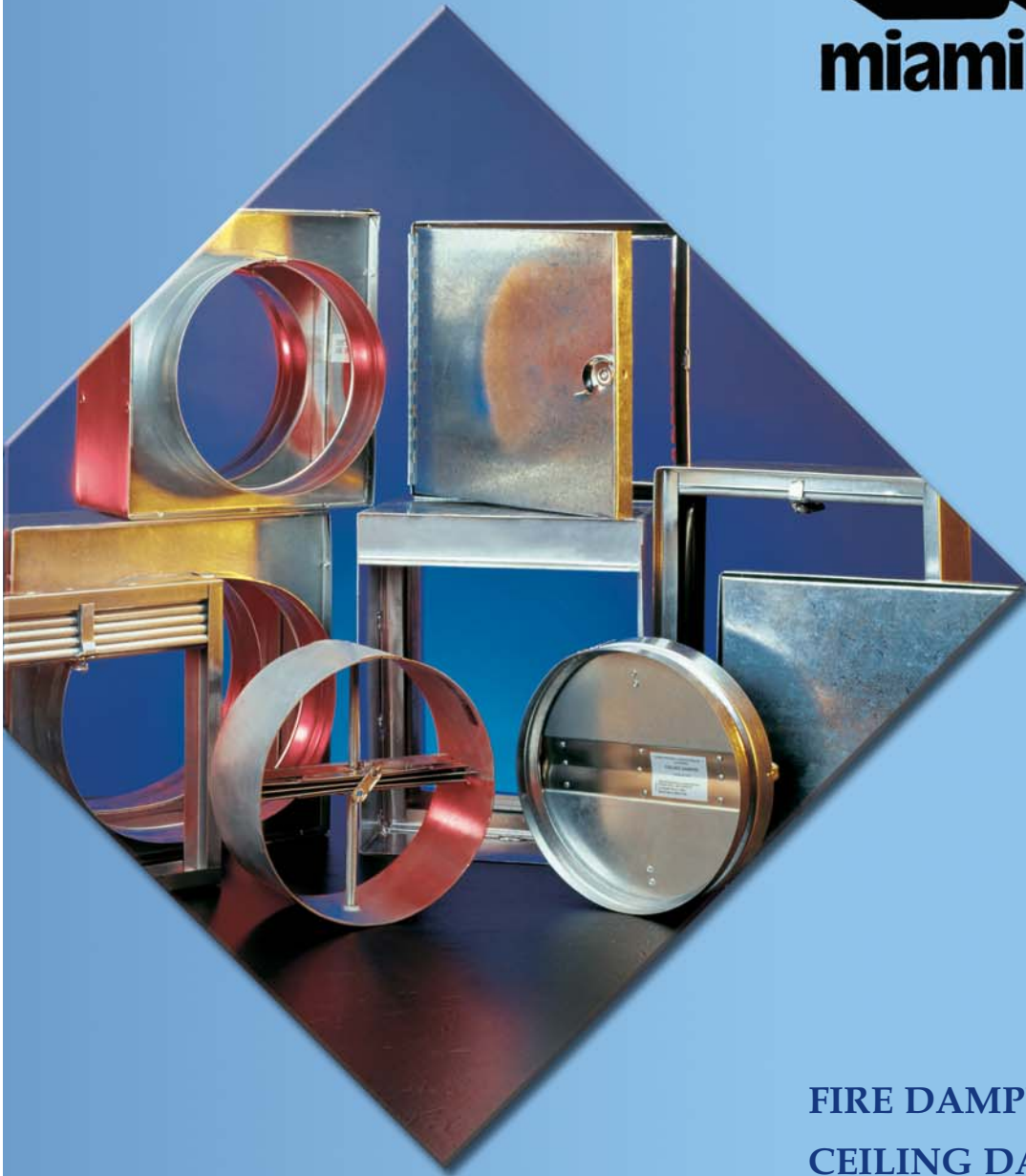


**FIRE PRODUCTS
2010/2011**



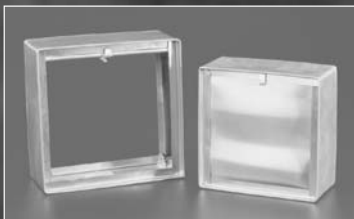
**FIRE DAMPERS
CEILING DAMPERS
ACCESS DOORS
RADIATION DAMPER BOX**

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, Applied Research Laboratory, AMCA International, NFPA 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 20 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 of 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 25% restocking charge.

Freight Policy

1. Freight is paid on minimum of \$1500.00 net for -Florida (except Panhandle).
2. Freight is paid on minimum of \$3,000.00 net for Florida Panhandle.
3. Other areas addressed on a case by case basis.

Sales Policy

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

Special Sizes

If a particular size is not listed on our catalog, please do not hesitate to ask.
We are able to make most all 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

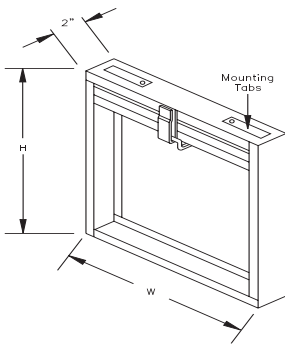


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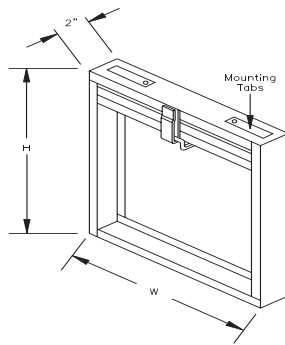
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FIRE DAMPER OVERVIEW (CURTAIN TYPE)

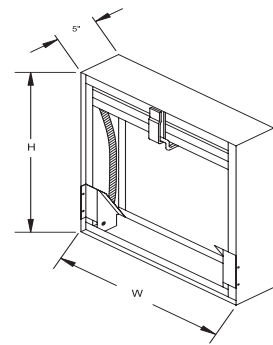
STATIC SYSTEM APPLICATION - UL555 CLASSIFICATION							
Model	Rating	Fusible Link	Blade Gauge	Closure Springs	Blade Configuration	Mounting	Page
150E	1½ Hour	165 or 212	22 Ga.	Stainless Steel	In Airstream	Horizontal	6
150F	3 Hour	165 or 212	22 Ga.	N/A	In Airstream	Vertical	7
DYNAMIC SYSTEM APPLICATION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



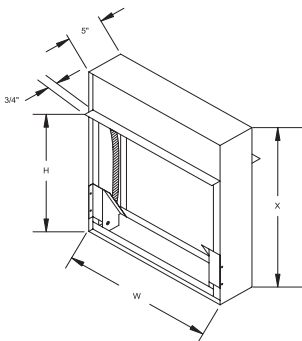
150E



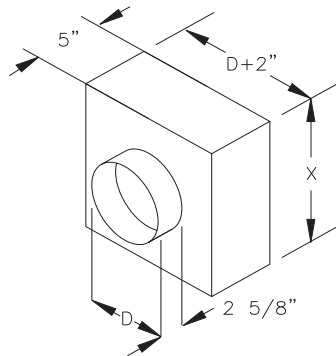
150F



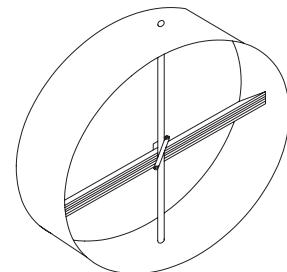
151A



151B



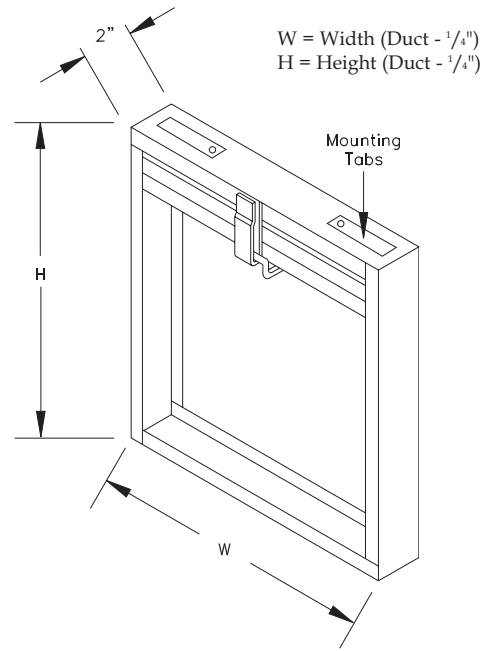
151C



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 (see page 26).

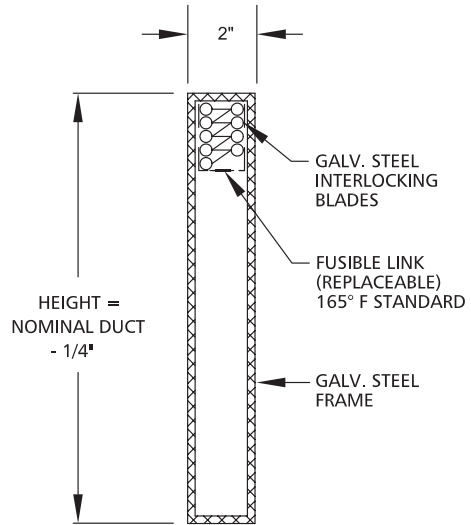
UL File No. 10250

Listed and Labeled By:

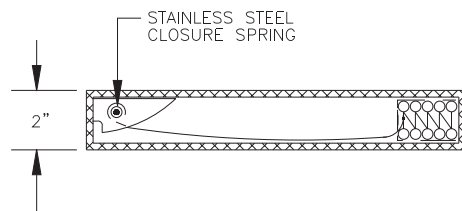


MINIMUM AVAILABLE SIZE, Inches (W x H)	
Horizontal (150E)	Vertical (150E)
6" x 6"	6" x 6"

NOTE: See page 13 for maximum size availability.



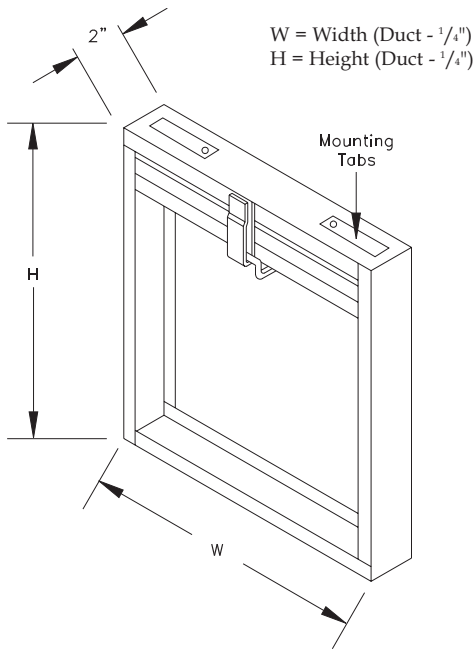
Typical Vertical Damper



Typical Horizontal Damper

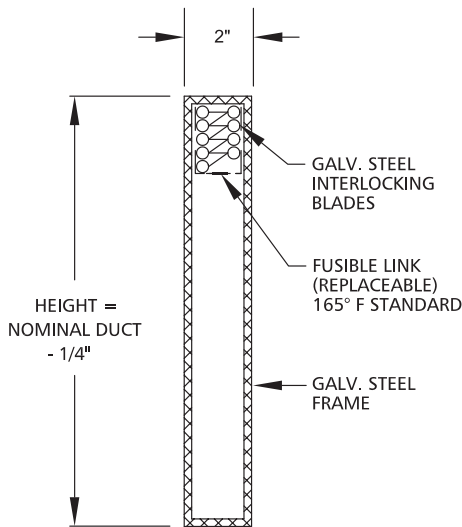
Model 150F – Slimline

*Curtain Type Fire Damper – UL555 Classification
Vertical, 3 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 four hours or less.**
- Gravity operated for vertical installation.
- 3 hour rating for use in fire barriers rated four hours or less.
- Integral mounting tabs for quick installation (see page 26).



Typical Vertical Damper

UL File No. 10250

Listed and Labeled By:

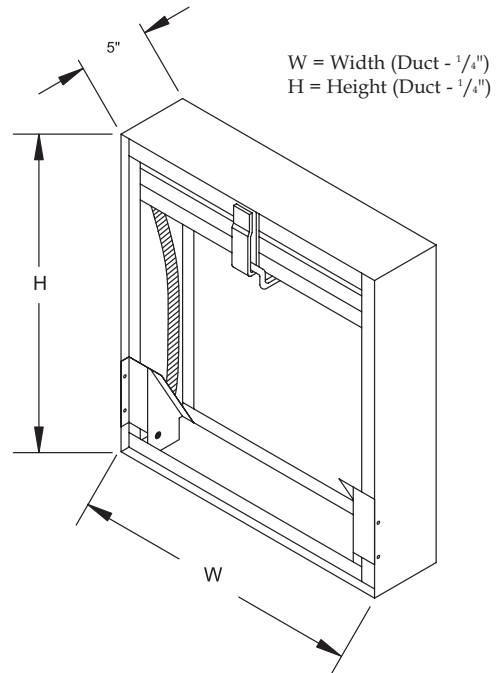


MINIMUM AVAILABLE SIZE, Inches (W x H)
Vertical (150F)
6" x 6"

NOTE: See page 13 for maximum size availability.

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 26).

UL File No. 10250

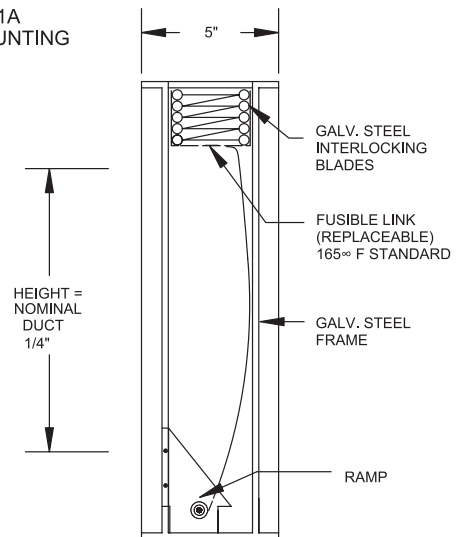
Listed and Labeled By:



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

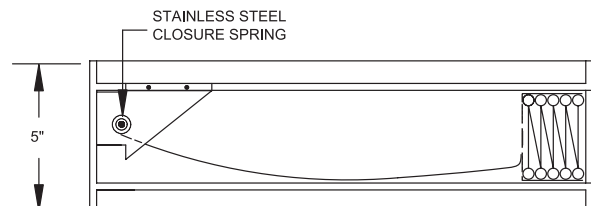
NOTE: See page 13 for maximum size availability.

MODEL 151A
VERTICAL MOUNTING

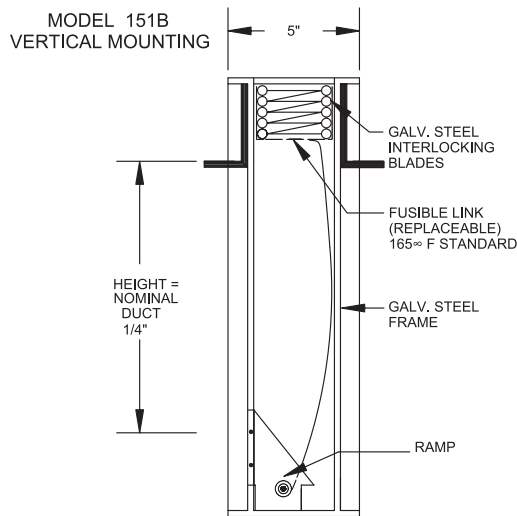
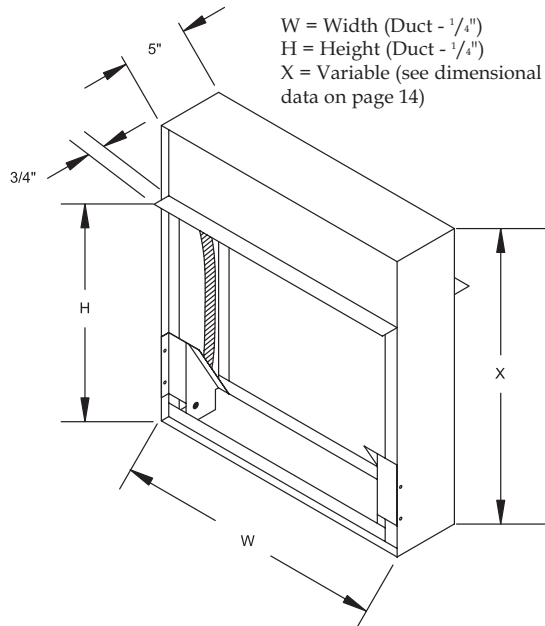


Typical 151A Vertical Damper

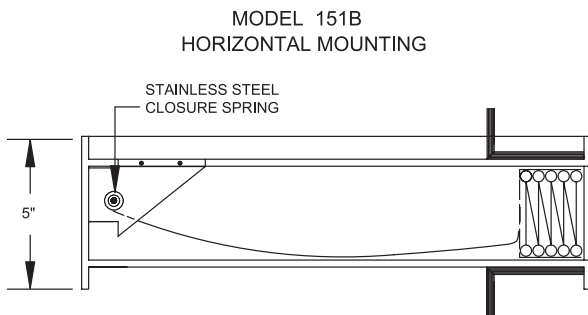
MODEL 151A
HORIZONTAL MOUNTING



Typical 151A Horizontal Damper



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 26).

UL File No. 10250

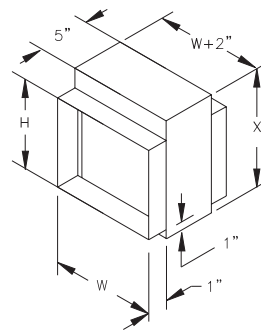
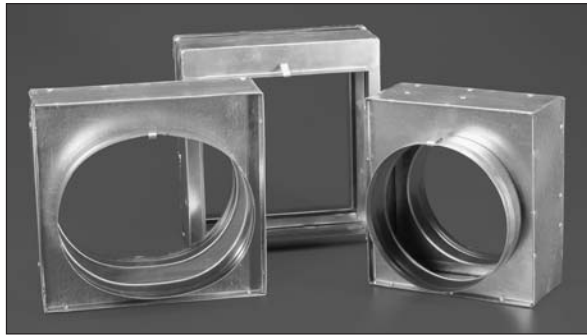
Listed and Labeled By:



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

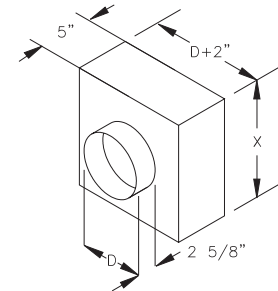
NOTE: See page 13 for maximum size availability.

Model(s) 151C Series
High Pressure
 Curtain Type Fire Damper - UL555 Classification
 Horizontal and Vertical, 1½ Hour Rating



Type CRC

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



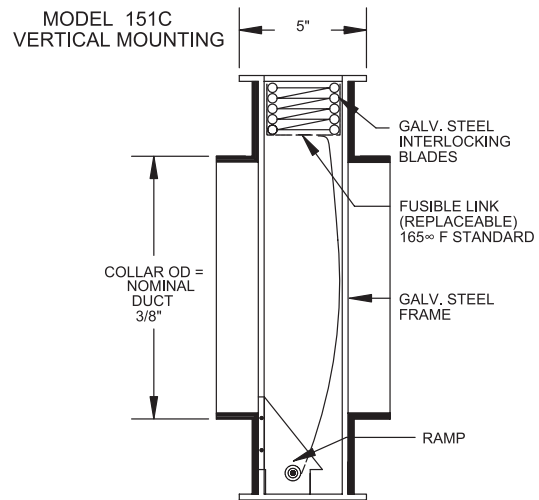
Type CRD

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 rectangular or round configurations for simple duct attachment.
- Units also available with collar on one side only.
- Optional installed duct sleeves available (see page 26).

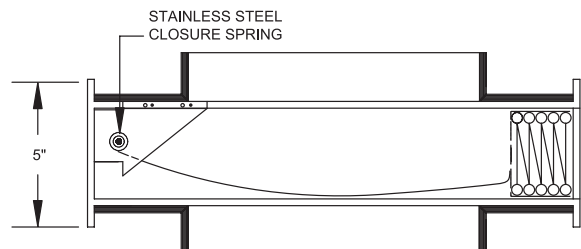
UL File No. 10250

Listed and Labeled By:



Typical 151C Vertical Damper

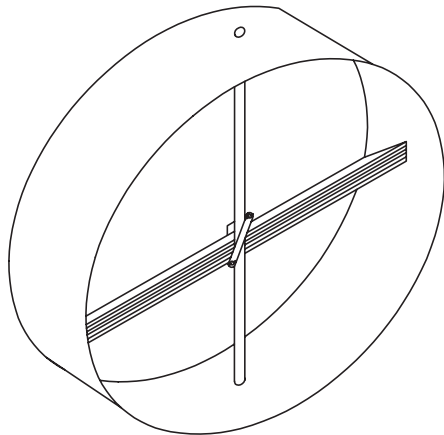
MODEL 151C HORIZONTAL MOUNTING



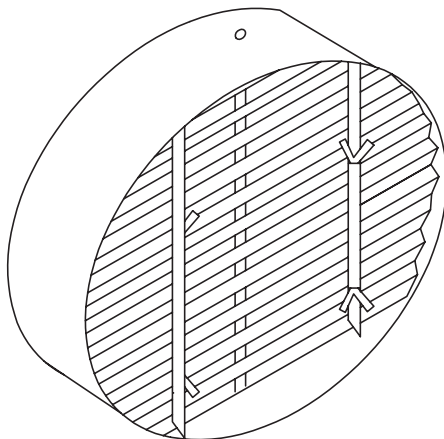
Typical 151C Horizontal Damper

TYPE	MIN. AVAILABLE SIZE, Inches (W x H)	
	Horizontal (151C)	Vertical
RC	6" x 6"	6" x 6"
RD	4" (diameter)	4" (diameter)

NOTE: See page 13 for maximum size availability.



Open



Closed

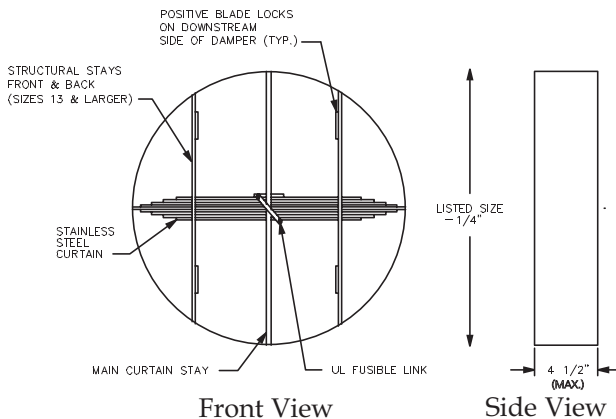
Model US-3 - True Round

*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.



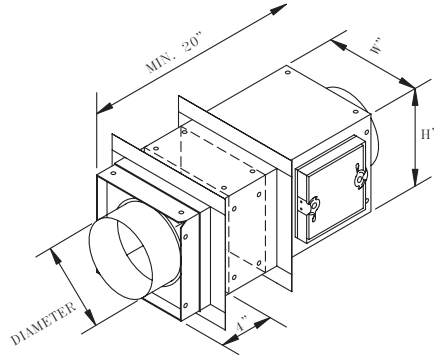
Listed and Labeled By:



LISTED SIZE AVAILABILITY (Diameter Inches)	
Minimum	Maximum
4"	14"

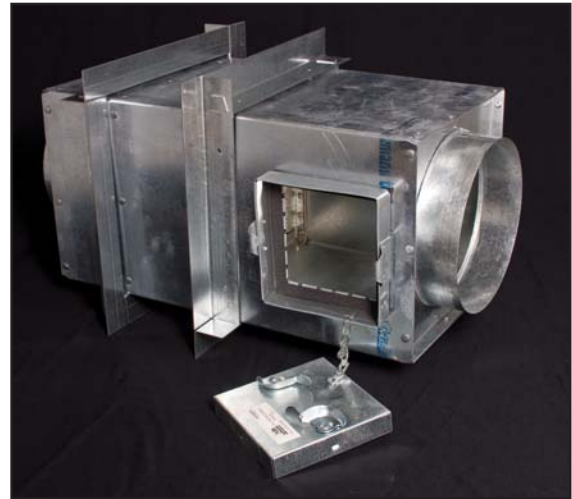
NOTE: 4" to 14" diameter in one inch increments.

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)

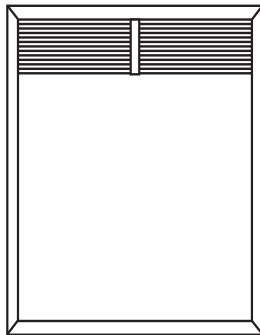
Part No (151A)	Part No (151B)	Fire Damper Size	Collar Size	Door Size	Sleeve Size
151A060604BC	151B060604BC	6" x 6"	4"	6" x 6"	20"
151A080806BC	151B080806BC	8" x 8"	6"	6" x 6"	20"
151A101008BC	151B101008BC	10" x 10"	8"	8" x 8"	20"
151A121210BC	151B121210BC	12" x 12"	10"	8" x 8"	20"
151A141412BC	151B141412BC	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.

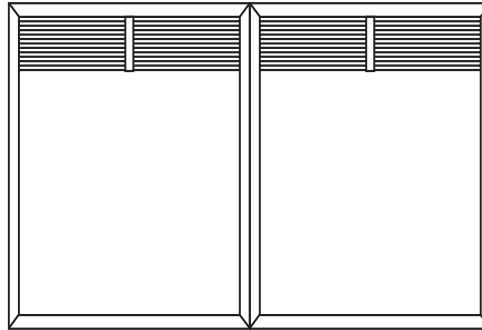
Maximum Size Availability, Width x Height

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	41" 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"		
151CRC	Horizontal/Vertical	24" x 24"		
151CRD	Horizontal/Vertical	22" Round		
151COV	Horizontal/Vertical	24" x 24"		
US-3	Horizontal/Vertical	14" Round		

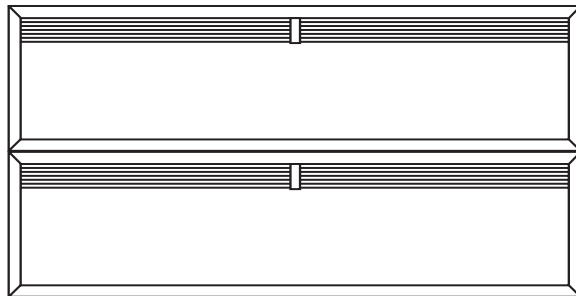
NOTE: All fire dampers are available in 1/4" increments.



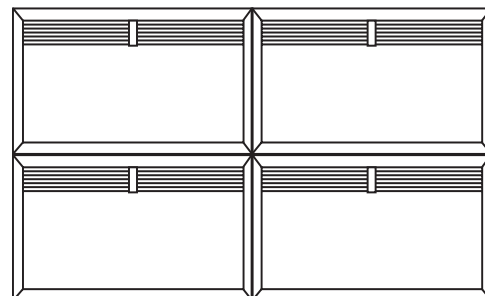
Single Piece Construction



Two Piece Construction (Vertical)



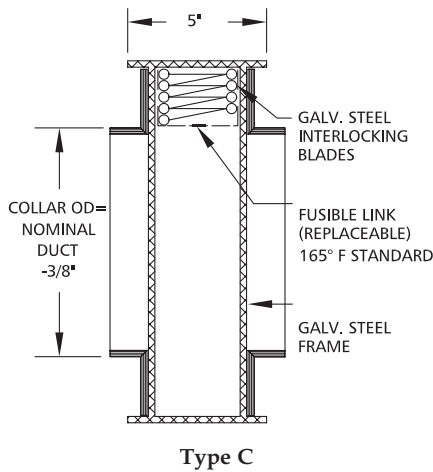
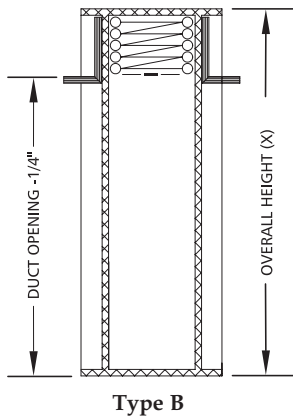
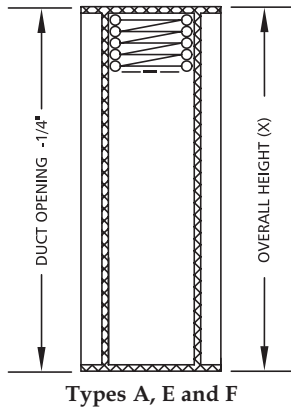
Two Piece Construction (Vertical)



Four Piece Construction

SIZING TABLE

FIRE DAMPER SELECTION GUIDE



Duct Opening/ Nominal Size	Type A, E, & F Overall Height (x)	Type B Overall Height (x)	Type C Overall Height (x)
4"	3 ³ / ₄ "	5 ³ / ₄ "	6 ³ / ₄ "
5"	4 ³ / ₄ "	6 ³ / ₄ "	7 ³ / ₄ "
6"	5 ³ / ₄ "	7 ³ / ₄ "	8 ³ / ₄ "
7"	6 ³ / ₄ "	8 ³ / ₄ "	9 ³ / ₄ "
8"	7 ³ / ₄ "	9 ³ / ₄ "	10 ³ / ₄ "
9"	8 ³ / ₄ "	10 ³ / ₄ "	11 ³ / ₄ "
10"	9 ³ / ₄ "	11 ³ / ₄ "	12 ³ / ₄ "
11"	10 ³ / ₄ "	12 ³ / ₄ "	13 ³ / ₄ "
12"	11 ³ / ₄ "	13 ³ / ₄ "	14 ³ / ₄ "
13"	12 ³ / ₄ "	14 ³ / ₄ "	15 ³ / ₄ "
14"	13 ³ / ₄ "	15 ³ / ₄ "	16 ³ / ₄ "
15"	14 ³ / ₄ "	16 ³ / ₄ "	17 ³ / ₄ "
16"	15 ³ / ₄ "	18 ³ / ₄ "	19 ³ / ₄ "
17"	16 ³ / ₄ "	19 ³ / ₄ "	20 ³ / ₄ "
18"	17 ³ / ₄ "	20 ³ / ₄ "	21 ³ / ₄ "
19"	18 ³ / ₄ "	21 ³ / ₄ "	22 ³ / ₄ "
20"	19 ³ / ₄ "	22 ³ / ₄ "	23 ³ / ₄ "
21"	20 ³ / ₄ "	23 ³ / ₄ "	24 ³ / ₄ "
22"	21 ³ / ₄ "	24 ³ / ₄ "	25 ³ / ₄ "
23"	22 ³ / ₄ "	25 ³ / ₄ "	26 ³ / ₄ "
24"	23 ³ / ₄ "	26 ³ / ₄ "	27 ³ / ₄ "
25"	24 ³ / ₄ "	27 ³ / ₄ "	28 ³ / ₄ "
26"	25 ³ / ₄ "	28 ³ / ₄ "	29 ³ / ₄ "
27"	26 ³ / ₄ "	29 ³ / ₄ "	30 ³ / ₄ "
28"	27 ³ / ₄ "	31 ³ / ₄ "	32 ³ / ₄ "
29"	28 ³ / ₄ "	32 ³ / ₄ "	33 ³ / ₄ "
30"	29 ³ / ₄ "	33 ³ / ₄ "	34 ³ / ₄ "
31"	30 ³ / ₄ "	34 ³ / ₄ "	35 ³ / ₄ "
32"	31 ³ / ₄ "	35 ³ / ₄ "	36 ³ / ₄ "
33"	32 ³ / ₄ "	36 ³ / ₄ "	37 ³ / ₄ "
34"	33 ³ / ₄ "	37 ³ / ₄ "	38 ³ / ₄ "
35"	34 ³ / ₄ "	38 ³ / ₄ "	39 ³ / ₄ "
36"	35 ³ / ₄ "	40 ³ / ₄ "	41 ³ / ₄ "
37"	36 ³ / ₄ "	41 ³ / ₄ "	42 ³ / ₄ "
38"	37 ³ / ₄ "	42 ³ / ₄ "	43 ³ / ₄ "
39"	38 ³ / ₄ "	43 ³ / ₄ "	44 ³ / ₄ "
40"	39 ³ / ₄ "	44 ³ / ₄ "	45 ³ / ₄ "
41"	40 ³ / ₄ "	45 ³ / ₄ "	46 ³ / ₄ "
42"	41 ³ / ₄ "	46 ³ / ₄ "	47 ³ / ₄ "
43"	42 ³ / ₄ "	N/A	N/A
44"	43 ³ / ₄ "	N/A	N/A
45"	44 ³ / ₄ "	N/A	N/A
46"	45 ³ / ₄ "	N/A	N/A
47"	46 ³ / ₄ "	N/A	N/A
48"	47 ³ / 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.

Effective April 1, 1992, all fire dampers must be labeled indicating whether they are to be used in a static or dynamic system. For dynamically rated dampers, the label must also indicate airflow direction,

maximum rated velocity through the open damper, and the maximum pressure differential across the closed damper.

Effective July 1, 2002, all Dynamic Fire Dampers must meet new tougher standards. To be approved for dynamic system applications, UL555 requires that test dampers close three times against their rated flow and shut-off pressure. The dampers must close in both a standard "in duct" and "in-wall" (or "in-floor") mounting arrangement, in ambient and heated air. This test is done both upstream and downstream of ramp.

Dynamic Fire Damper Ratings

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

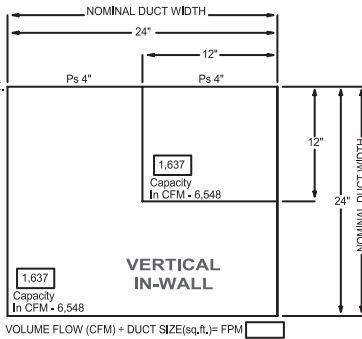


FIGURE 1

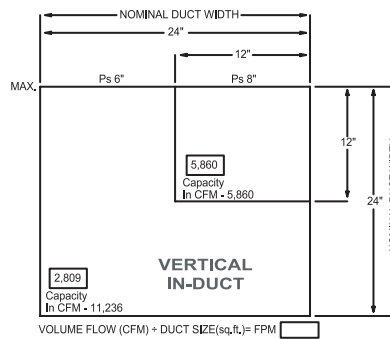


FIGURE 2

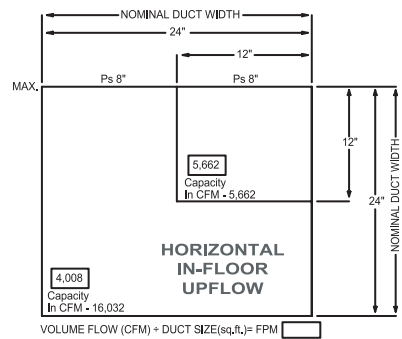


FIGURE 3

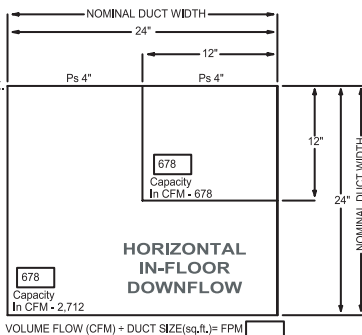


FIGURE 4

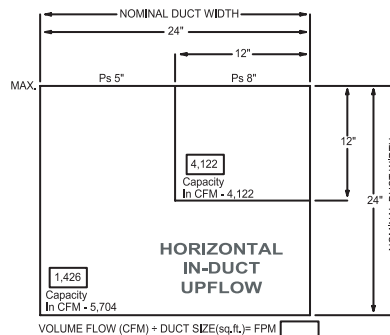


FIGURE 5

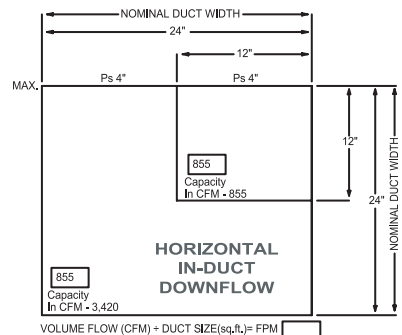


FIGURE 6

- 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 not 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

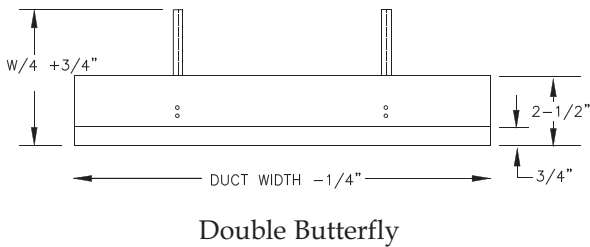
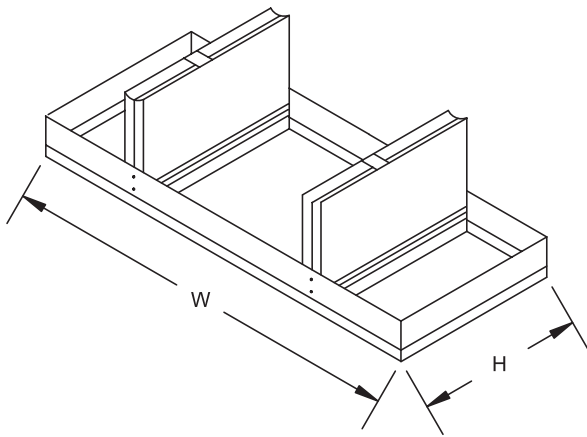
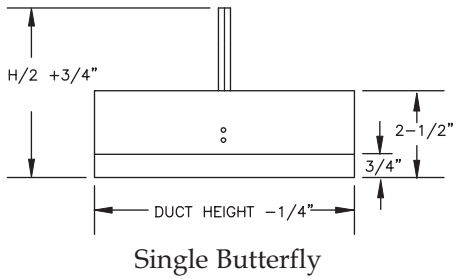
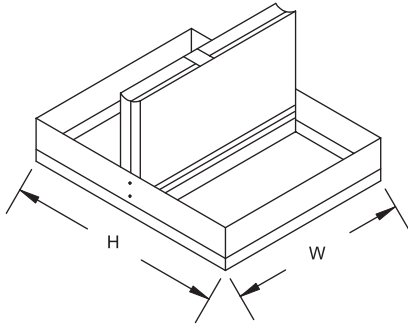
Square and Rectangular Fire Dampers

Model	Type	Collar Type (C only)	Width (inches)	Height (inches)	Fusible Link Rating (°F)
1 5 X Static----0 Dynamic----1	X	X X	X X Specify	X X Specify	X X L1 165° L2 212°
Blades in Airstream	A	RC--- Rectangular Collar			
Blades Out of Airstream	B	RD--- Round Collar			
High Pressure	C				
Slimline (1 1/2 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).



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 (1½ 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

Listed and Labeled By:

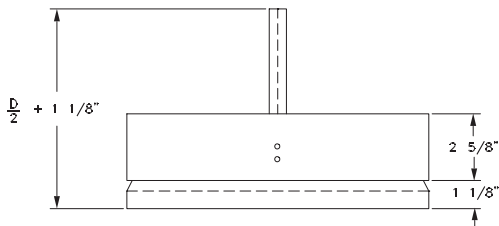
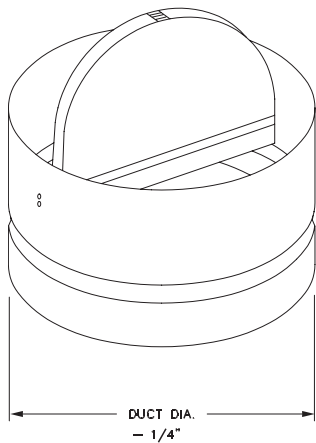
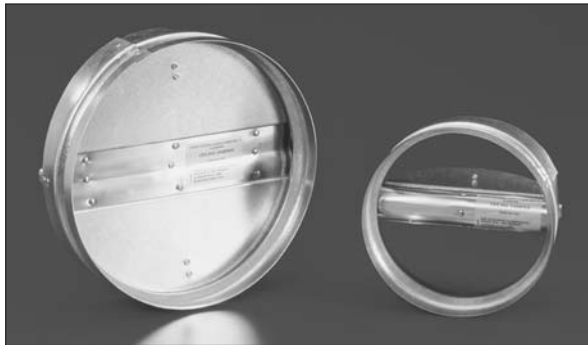


MODEL 616

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"

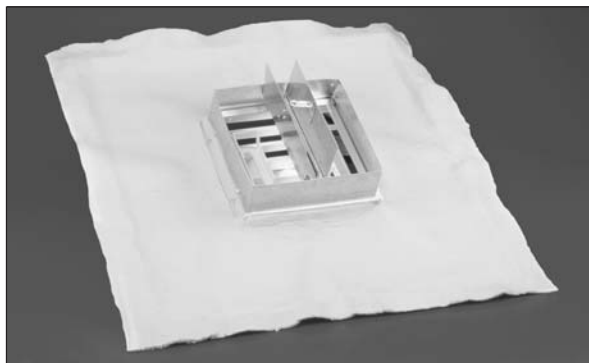
UL File No. 10967

Listed and Labeled By:



MODEL FCB

Model FCB, Fire Ceramic Blanket



CEILING DAMPER ACCESSORIES

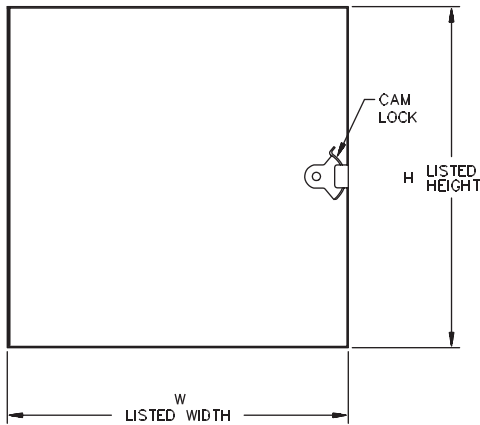
Description

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.

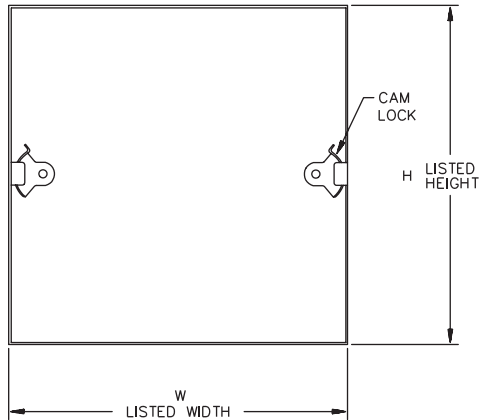
Also available in 1/2" .

Model FSA100 Hinged Access Door for Metal Duct

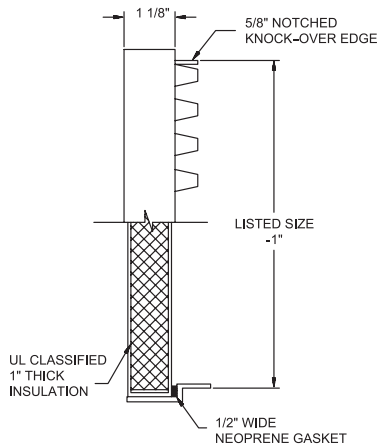


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

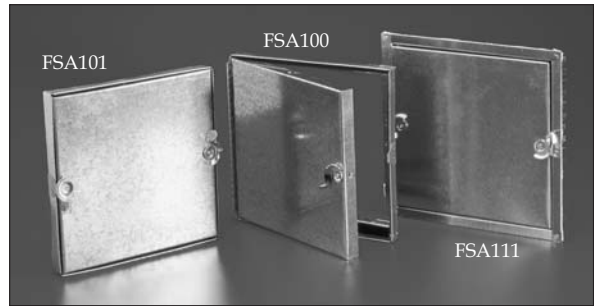
Model FSA101 All Cam Lock Access Door for Metal Duct



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

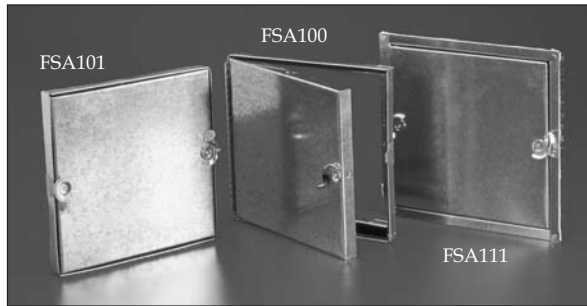
- Miami Tech Model FSA100 and FSA101 access doors are designed for quick installation in metal duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

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"

Model FSA110 and FSA111 Access Door for Fiberglass Duct



Description

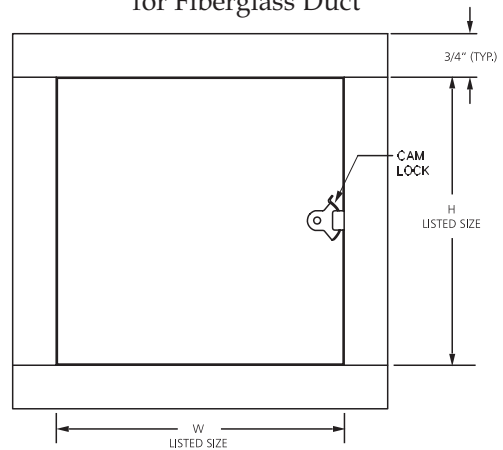
- Miami Tech Model FSA110 and FSA111 access doors are designed for quick installation in fiberglass duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

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.

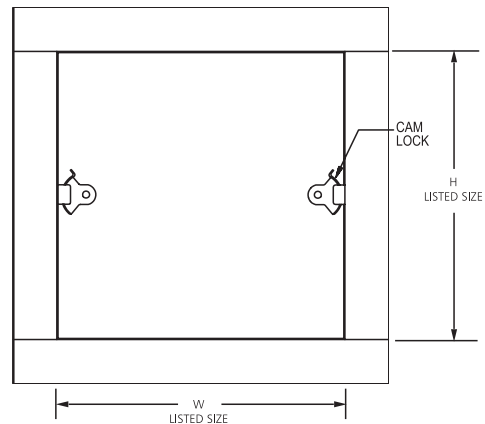
AVAILABLE SIZES, Inches (H x W)	
Minimum	Maximum
6" x 6"	24" x 24"

Model FSA110 Hinged Access Door for Fiberglass Duct

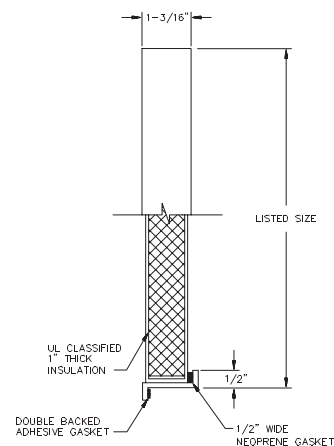


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

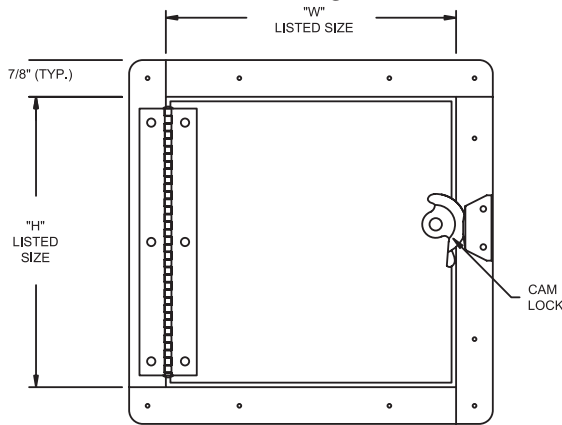
Model FSA111 All Cam Lock Access Door for Fiberglass Duct



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

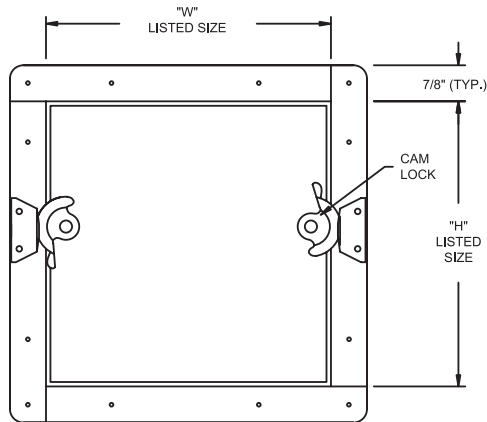


Model FSA115 Hinged Access Door for Metal or Fiberglass Duct

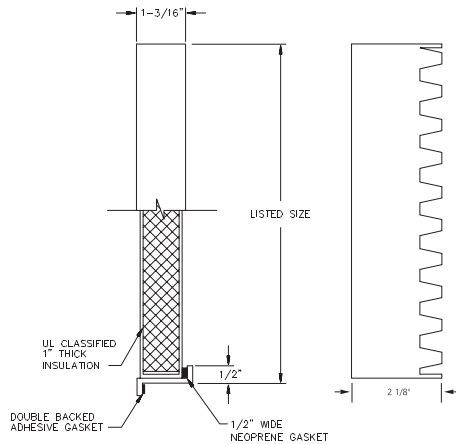


Hinged doors larger than 14 x 14" have a minimum of two cam locks.

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

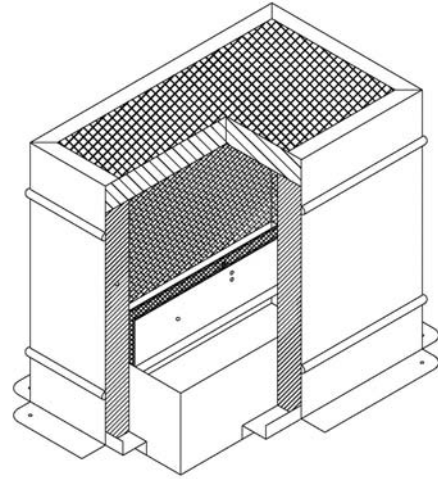
- Miami Tech Model FSA115 and FSA116 access doors are designed for quick installation in metal or fiberglass duct. They provide direct access to fire dampers for resetting, as well as any item requiring maintenance or inspection.

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"

Model R4RDB & R6RDB Ceiling Radiation Damper Box



Features

BODY:

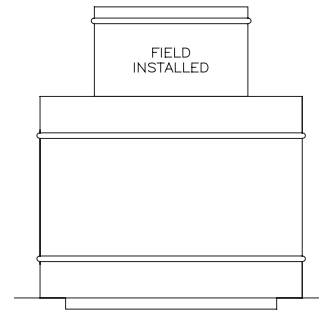
- Body case is fabricated from hot dipped galvanized steel sheets as per ASTM A-653.
- 1 Hour Fire Rated.
- Tested to meet ANSI/UL555c.
- Box design includes 1/2" drywall lip.
- Pre-insulated. Available R4.2 or R6.0 .
- Grille mounting holes pre-drilled.
- Dual bead box design for added strength.
- No assembly, ready to mount.
- U.L. approved fusible link-165.
- Each box is identified with ARL label and Miami Tech identification plate.
- Designed for installation through wood or gypsum ceiling. Can be mounted in suspended ceiling or truss mount.
- Installation instructions included in every box.

OPTIONS:

- Special sizes available upon request.
- Available with top outlet.
- Various collar sizes available.

GAUGES:

- Outside casing: 26 Gauge



Minimum	Maximum	Options	Outlet Size	Box Height
6" x 6"	18" x 18"	Top	4" - 5"	9.25"
6" x 6"	18" x 18"	Top	6" - 8"	11.5"
6" x 6"	18" x 18"	Top	4" - 8"	9.25"
6" x 6"	18" x 18"	N/A	N/A	9.25"

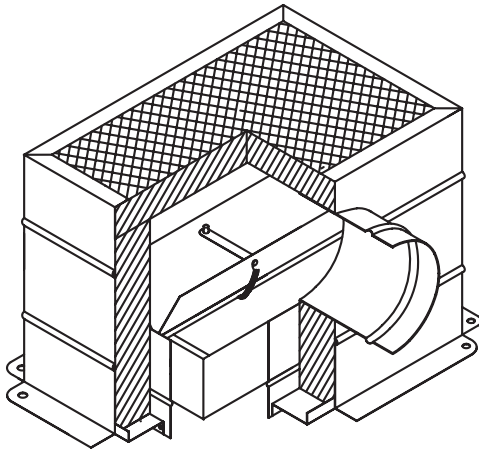
Installation Accessories:

- Mounting Angles
- RDBSA
- RDBSA10

ARL File No. 29730



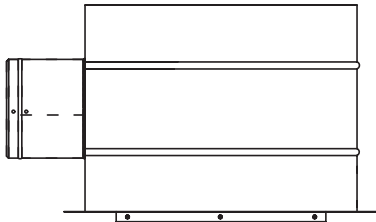
Model R4521 and R6521
Ceiling Radiation Damper Box



Features

BODY:

- Body case is fabricated from hot dipped galvanized steel sheets as per ASTM A-653.
- 1 hour rated for use with Floor/Ceiling design # L-521, L-528, and L-546.
- Conforms to NFPA 90A and NFPA 92A.
- Box design includes 1/2" drywall lip. Pre-insulated. Available R4.2 or R6.0.
- Register box height is 11.5".
- Dual bead box design for added strength.
- No assembly; ready to mount.
- 1" Flange, no need for plaster ground or can-stock.
- U.L. approved fusible link-165.
- Each box is identified with ARL label and Miami Tech identification plate.
- Installation instructions provided with every box.
- Standard side outlet.



MODEL : 521 CEILING RADIATION BOX

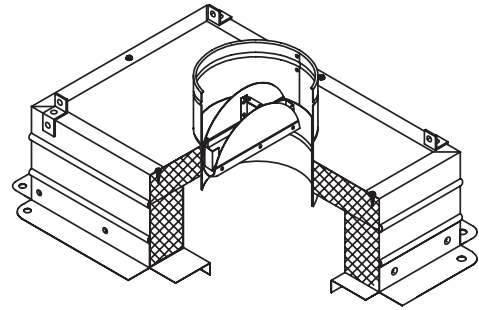
OPTIONS:

- Special sizes available upon request.
- Various collar sizes available.

Minimum	Maximum	Options	Outlet Size	Box Height
6" x 6"	18" x 18"	Side	4" - 8"	11.5"

ARL File No. 30123





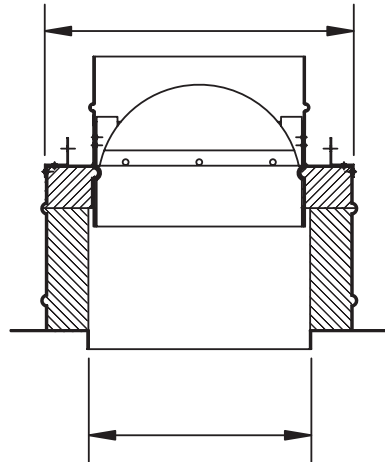
MODEL R6CRD

Ceiling Radiation Damper

- UL - listed fusible link (165 F Standard) (Options available).
- Blades 22 ga. galv. steel.
- Ceramic fiber with fiberglass cover.
- Roll-Formed round frame 22 ga. galv. steel.

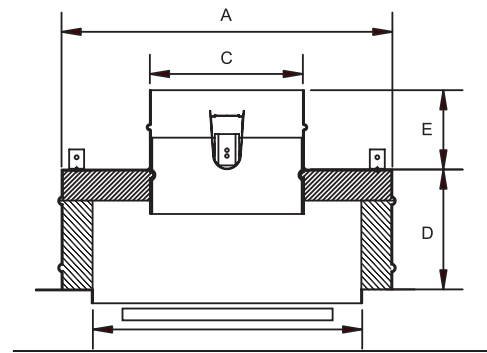
Plenum Box

- Outer box: 28 ga. galv. steel.
- Collar: Roll-Formed 28 ga. galv. steel with roll-formed 1/4 beading.
- Insulation: Fiberglass duct-board 1-1/2" thick (R6.0). Also available in R-4.
- "C" nominal diameter.
- "E" dimensions: Collar height: 3".
- "D" dimensions: Register Body height: 4.75".
- Ceramic insulation is not required on damper blades with areas less than 80 square inches and is optional.
- Damper above 72 square inches will be provided with blade insulation.



Features

- Body case is fabricated from hot dipped galvanized steel sheets as per ASTM A-653.
- 1 hour rated for use with Floor/Ceiling design # L-521, L-528 and L-546.
- Conforms to NFPA 90A and NFPA 92A.
- Box design includes 1/2" drywall lip. Pre-insulated. Available R4.2 or R6.0.
- Overall assembly height is 7.75".
- Dual bead box design for added strength.
- No assembly, ready to mount.
- 1" Flange, no need for plaster ground or can-stock.
- U.L. approved fusible link-165.
- Each box is identified with ARL label and Miami Tech identification plate.
- Installation instructions provided with every box.
- Standard Top Outlet.
- Standard 28 ga.



ARL File No. 30123



LISTED

Options

- Special sizes available upon request.
- Various collar sizes available.

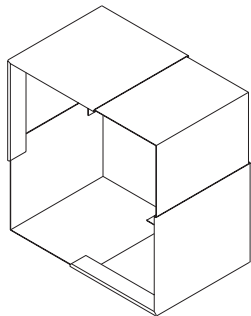
Box Height	Maximum	Options	Outlet Size	Box Height
6" x 6"	24" x 24"	Side	4" - 9"	4.5"

OPTIONAL ACCESSORIES

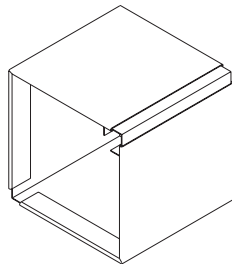
MODEL ADS – ADJUSTABLE SLEEVE

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.

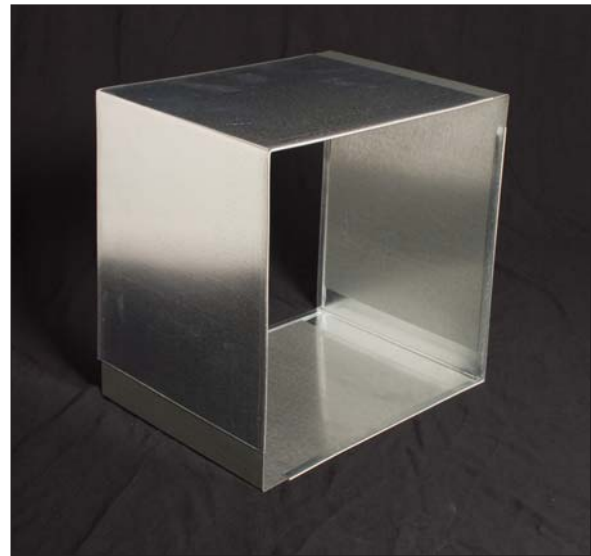


Fully Expanded



Minimum Size

Fire Damper Sleeve – Adjustable



OPTIONAL ACCESSORIES

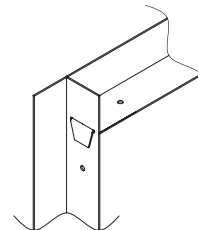
MODEL PFA – PICTURE FRAME ANGLE

Features

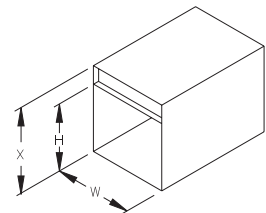
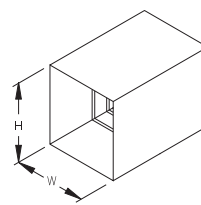
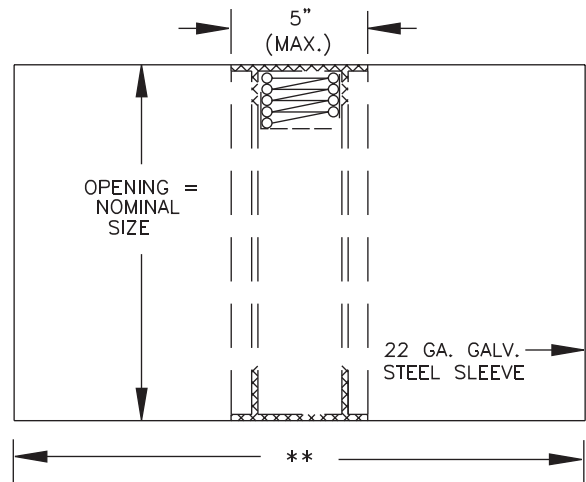
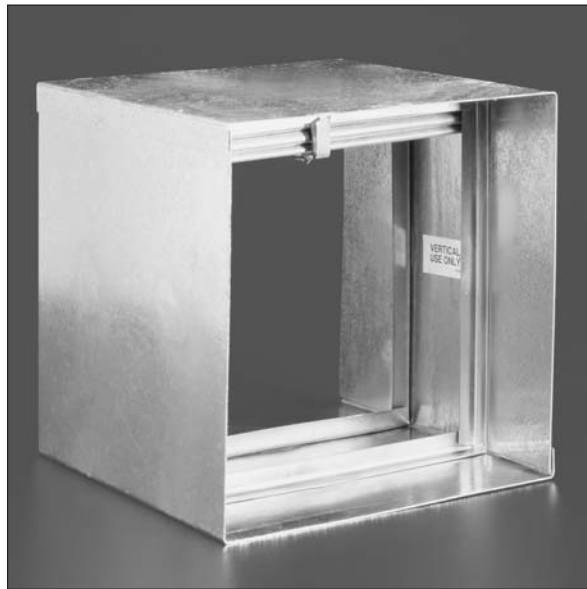
- Retaining angles are required to ensure correct installation per UL instructions.
- All retaining angles are manufactured for each individual fire damper to ensure correct size.
- Standard angles are manufactured of 1¹/₂" x 1¹/₂" x 16 gauge galvanized steel.
- Angles are shipped loose with each individual damper.



Fire Damper Angles

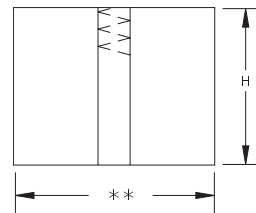


Fire Damper Sleeves – Fixed

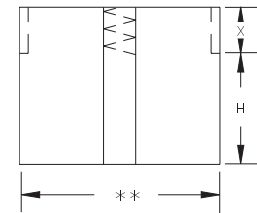


Features

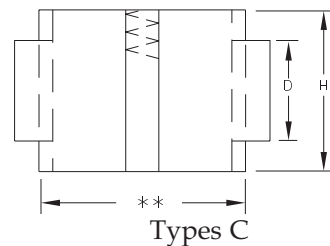
- Standard 22 gauge galvanized steel sleeves for use with Type A, B and C curtain type fire dampers. Assembled at the factory, each fire damper/sleeve ensures appropriate UL approved installation.
- Available for both static and dynamic system applied fire dampers.
- Assembly meets all UL and NFPA requirements 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

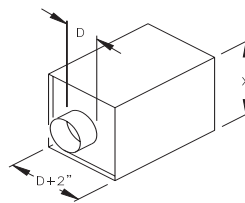


Type B

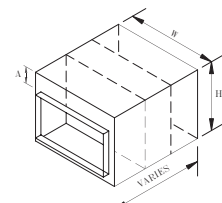


Types C

Listed and Labeled By:



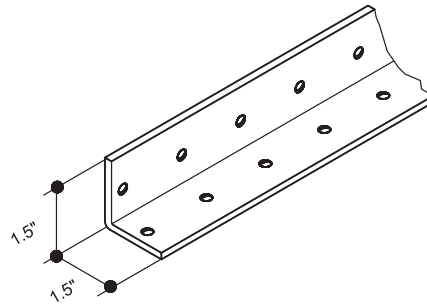
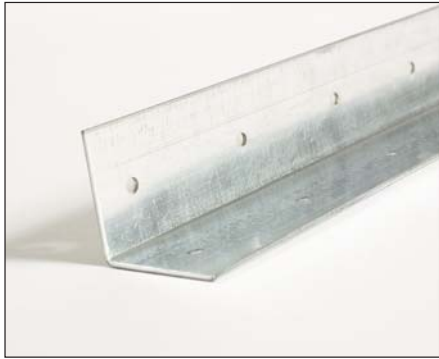
Round



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.

RDB Mounting Angles
Model: RDBSA & RDBSA10

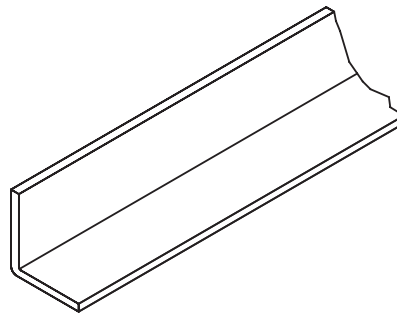


Features

- Custom sizes available.
- Standard 16 gauge.

AVAILABLE SIZES, Inches (1.5" x 1.5")		
Part No.	Size	Bundle Qty.
RDBSA	26"	10 pcs
RDBSA10	10'	100 ft

Mounting Angles
Model: MA1, MA15, & MA2



Features

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

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'

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



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