RUSKIN®

3900 Dr. Greaves Rd. • Kansas City, MO 64030 • (816) 761-7476 • FAX (816) 765-8955

DIBD2 and DIBD23 CURTAIN TYPE DYNAMIC FIRE DAMPERS

1½ AND 3 HOUR UL555 RATED FOR USE IN DYNAMIC AND STATIC SYSTEMS

APPLICATION

DIBD2 fire dampers can be installed vertically in walls or horizontally in floors with fire resistance ratings of less than 3 hours. The DIBD2 carries a 1½ hour UL fire damper label and is classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.

DIBD23 fire dampers can be installed vertically in walls or horizontally in floors with fire resistance ratings of 3 hours or more. The DIBD23 carries a 3 hour UL fire damper label and are classified as a dynamic damper for use in HVAC systems that remain in operation during a fire.

DYNAMIC CLOSURE RATINGS

MAXIMUM VELOCITY – 2,000 fpm (10.16 m/s) on all sizes.

MAXIMUM PRESSURE – 4 in. w.g. (1kPa).

STANDARD CONSTRUCTION

FRAME

20 gage (1.0) galvanized, steel channel.

BLADES

24 gage (.7) galvanized curtain type in airstream.

CLOSURE SPRINGS

301 stainless steel constant force or spring clip type.

FUSIBLE LINK

165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) are available.

DAMPER SIZES

The sizes listed below are for A Style dampers. Refer to pages 2 and 3 for sizes of other style dampers.

MINIMUM SIZE

Vertical Installation – 4"w x 4"h (102 x 102)

Horizontal Installation – 6"w x 6"h (152 x 152) for dampers no larger than 24"w or 24"h (610 or 610). Dampers larger than 24"w or 24"h (610 or 610) have a minimum size of 10"w or 10"h (254 or 254).

MAXIMUM SIZE

Single Section

Vertical Installation – 33"w x 36"h (838 x 914)

Horizontal Installation – 24"w x 24"h (610 x 610)

Multiple Section

Vertical Installation – 72"w x 48"h (1829 x 1219), 48"w x 72"h (1219 x 1829) or 120"w x 24"h (3048 x 610)**

**90"w x 24"h (2286 x 610) for DIBD23

Horizontal Installation – 36"w x 48"h (914 x 1219)

OPTIONS

- **FM Approvals** as Specification Tested Product.
- **Switch Package** to remotely indicate damper blade position.
- **FAST Angle** for one side angle installations.
- **G Style** for grille applications.
- **GA, Grille Access Type** for out of the wall/floor and no angle grille applications.
- **OW, Out of Wall Type** for out of wall/floor installations.
- **Sleeve** of various lengths and gages to insure field compliance with UL installation requirements.
- **Access Door** factory mounted in common sleeve to ensure compliance with UL installation requirements.

NOTE: Dimensions shown in parentheses ( ) indicate millimeters.

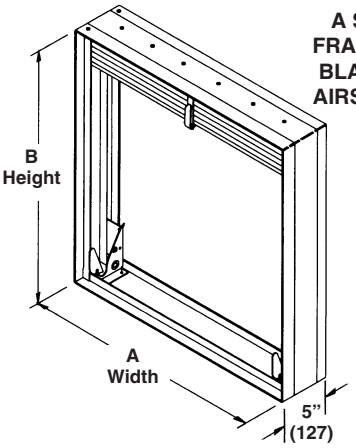
Models DIBD2 and DIBD23 meet the requirements for fire dampers established by:

- **National Fire Protection Association** NFPA Standards 80, 90A and 101
- **BOCA National Building Codes**
- **ICBO Uniform Building Codes**
- **SBCCI Standard Building Codes**
- **ICC International Building Codes**
- **CSFM California State Fire Marshal** Fire Damper Listing (#3225-245:005 and #3225-245:004)
- **New York City (**BSA Listing #297-71-SA and #298-85-SA)

UL CLASSIFIED
UL555 Listing R5531

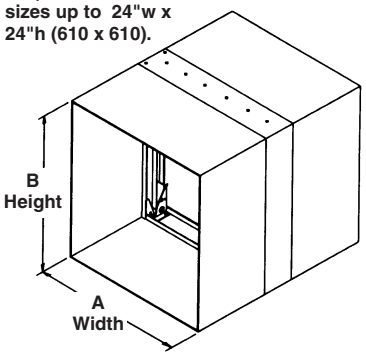
SEE COMPLETE MARKING ON PRODUCT

FM Approvals
Specification Tested Product (Option)



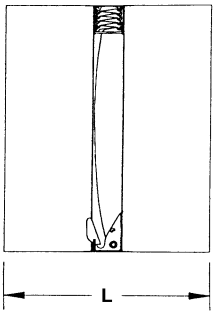
A STYLE FRAME AND BLADES IN AIRSTREAM

Taped and sealed on vertical sizes up to 33"w x 36"h (838 x 914) and horizontal sizes up to 24"w x 24"h (610 x 610).



DIBD2 OR 23 STYLE A IN 20 GAGE FACTORY SLEEVE

L = Length of sleeve



ALL STATED SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.

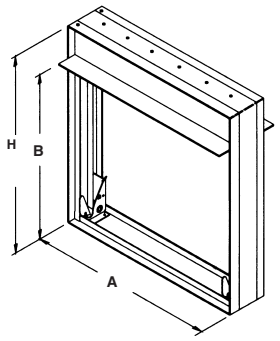
© Ruskin 2008

DAMPER STYLES AND SIZES

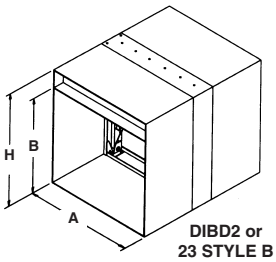
"B" Style – Blades out of airstream for high free area applications

MINIMUM SIZE
Vertical Installation – 4"w x 4"h (102 x 102)
Horizontal Installation – 6"w x 4"h (152 x 102) for dampers no larger than 24"w or 21"h (610 or 533). Dampers larger than 24"w or 21"h (610 or 533) have a minimum size of 10"w or 8"h (254 or 203)

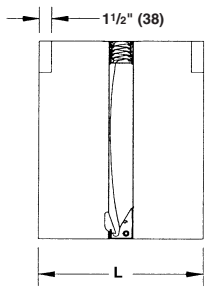
MAXIMUM SIZE
Single Section
Vertical Installation – 33"w x 32"h (838 x 813)
Horizontal Installation – 24"w x 21"h (610 x 533)
Multiple Section
Vertical Installation – 72"w x 45"h (1829 x 1143), 48"w x 69"h (1219 x 1753) or 120"w x 21"h (3048 x 533)**
**90"w x 21"h (2286 x 533) for DIBD23
Horizontal Installation – 36"w x 42"h (914 x 1067)



Taped and sealed on vertical sizes up to 33"w x 32"h (838 x 813) and horizontal sizes up to 24"w x 21"h (610 x 533).



DIBD2 or 23 STYLE B IN FACTORY SLEEVE

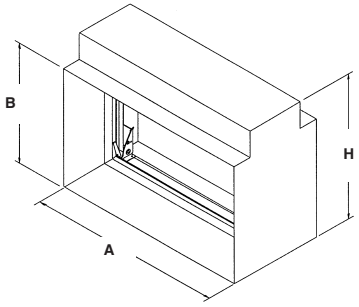


A = Duct Width B = Duct Height H = Overall Damper Height L = Sleeve Length

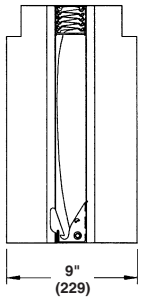
"BC" Style – Welded "B" style for high pressure, high free area applications

MINIMUM SIZE
Vertical Installation – 4"w x 4"h (102 x 102)
Horizontal Installation – 6"w x 4"h (152 x 102) for dampers no larger than 24"w or 21"h (610 or 533). Dampers larger than 24"w or 21"h (610 or 533) have a minimum size of 10"w or 8"h (254 or 203).

MAXIMUM SIZE
Single Section
Vertical Installation – 33"w x 32"h (838 x 813)
Horizontal Installation – 24"w x 21"h (610 x 533)
Multiple Section
Vertical Installation – 72"w x 45"h (1829 x 1143), 48"w x 69"h (1219 x 1753) or 120"w x 21"h (3048 x 533)**
**90"w x 21"h (2686 x 533) for DIBD23
Horizontal Installation – 36"w x 42"h (914 x 1067)



A = Duct Width B = Duct Height H = Overall Damper Height

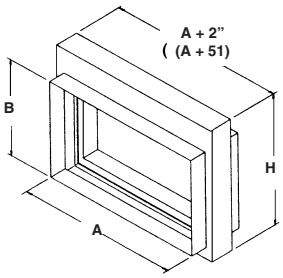


Damper must be ordered with minimum 18 gage (1.2) x 9" (229) factory sleeve.

C and WC Style – Sealed (C) or welded (WC) square or rectangular transition for maximum free area applications

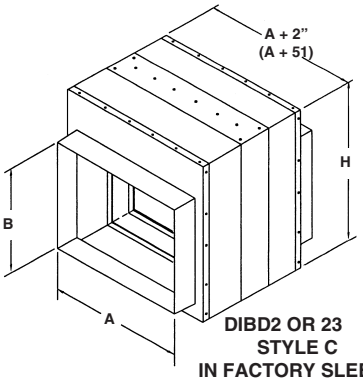
MINIMUM SIZE
Vertical Installation – 4"w x 3"h (102 x 76)
Horizontal Installation – 4"w x 3"h (102 x 76) for dampers no larger than 22"w or 20"h (559 or 508). Dampers larger than 22"w or 20"h (559 or 508) have a minimum size of 8"w or 7"h (203 or 178).

MAXIMUM SIZE
Single Section
Vertical Installation – 31"w x 31"h (787 x 787)
Horizontal Installation – 22"w x 20"h (559 x 508)
Multiple Section
Vertical Installation – 70"w x 44"h (1778 x 1118), 46"w x 68"h (1168 x 1727) or 118"w x 20"h (2997 x 508)**
**88"w x 20"h (2235 x 508) for DIBD23
Horizontal Installation
34"w x 42"h (864 x 1067)

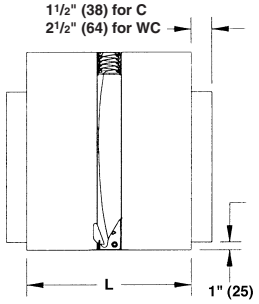


A = Duct Width B = Duct Height H = Overall Damper Height L = Sleeve Length

Taped and sealed on sizes up to 31"w x 31"h (787 x 787) for vertical installation and 22"w x 20"h (559 x 508) for horizontal installation.



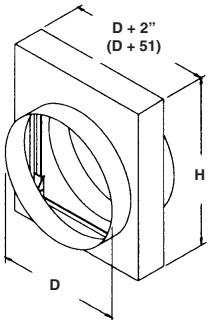
DIBD2 OR 23 STYLE C IN FACTORY SLEEVE



CR and WR Style – Sealed (CR) or welded (WR) round transition for 100% free area applications

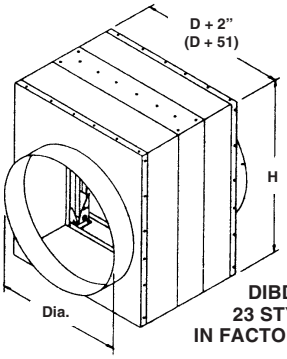
MINIMUM SIZE
Vertical Installation – 3" (76) diameter
Horizontal Installation – 4" (102) diameter

MAXIMUM SIZE
Vertical Installation
Single Section – 31" (787) diameter
Multiple Sections – 44" (1118) diameter
Horizontal Installation
Single Section – 20" (508) diameter
Multiple Sections – 34" (864) diameter

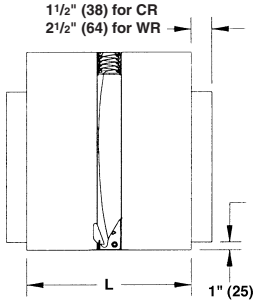


D = Diameter H = Overall Damper Height L = Sleeve Length

Taped and sealed on sizes up to 31" (787) in diameter for vertical installation and 20" (508) in diameter for horizontal installation.



DIBD2 OR 23 STYLE CR IN FACTORY SLEEVE

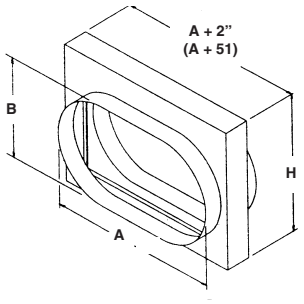


DAMPER STYLES AND SIZES

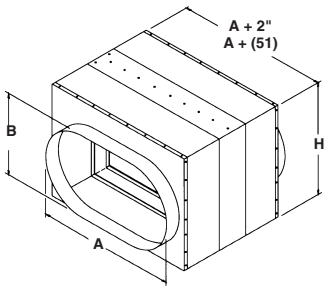
CO and WO Style – Sealed (CO) or welded (WO) oval transition for 100% free area applications

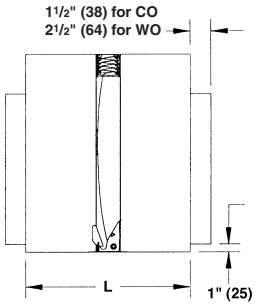
MINIMUM SIZE
- Vertical Installation – 4"w x 3"h (102 x 76)
- Horizontal Installation – 4"w x 3"h (102 x 76) for dampers no larger than 22"w or 20"h (559 or 508). Dampers larger than 22"w or 20"h (559 or 508) have a minimum size of 8"w or 7"h (203 or 178).

MAXIMUM SIZE
- Vertical Installation
  - Single Section – 31"w x 31"h (787 x 787)
  - Multiple Sections – 70"w x 44"h (1778 x 1118), 46"w x 68"h (1168 x 1727) or 118"w x 20"h (2997 x 508)**
  - **88"w x 20"h (2235 x 508) for DIBD23
- Horizontal Installation
  - Single Section – 22"w x 20"h (559 x 508)
  - Multiple Sections – 34"w x 42"h (864 x 1067)



Taped and sealed on sizes up to 31"w x 31"h (787 x 787) for vertical installation and 22"w x 20"h (559 x 508) for horizontal installation.





A = Duct Width B = Duct Height H = Overall Damper Height L = Sleeve Length

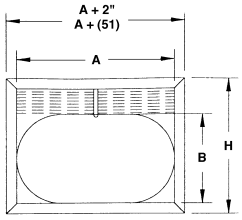
DIBD2 OR 23 STYLE CO IN FACTORY SLEEVE

LO, LR and R Style – Non-sealed oval (LO) or round (LR, R) transitions for low pressure applications. LO and LR transitions offset for 100% free area applications. R transition centered for use when 100% free area not required.

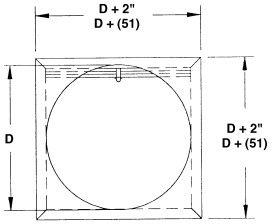
MINIMUM SIZE
- Vertical Installation
  - LR, R Styles – 3" (76) diameter
  - LO Style – 4"w x 3"h (102 x 76)
- Horizontal Installation
  - LR, R Styles – 4" (102) diameter
  - LO Style – 4"w x 3"h (102 x 76)

MAXIMUM SIZE
- Vertical Installation
  - LR, R Styles – 31" (787) diameter
  - LO Style – 31"w x 31"h (787 x 787)
- Horizontal Installation
  - LR, R Styles – 20" (508) diameter
  - LO Style – 22"w x 20"h (559 x 508)

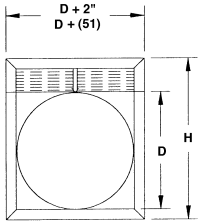
STYLE LO

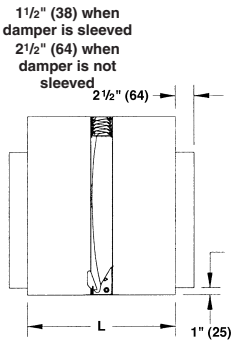


STYLE R



STYLE LR





A = Duct Width B = Duct Height H = Overall Damper Height D = Diameter L = Sleeve Length

ASSEMBLY AND DIMENSIONAL INFORMATION

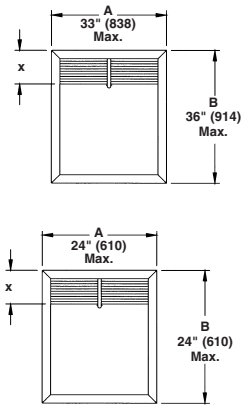
Dampers normally fabricated approximately 1/4" (6) less than given duct dimensions. A (width) and B (height) dimensions shown describe maximum UL Classified sizes. Ruskin recommends the authority having jurisdiction, the engineer and the contractor agree on the installation design prior to installation.
DIBD2 and DIBD23 multiple section dampers ordered without sleeves are shipped in individual sections, for field assembly.
DIBD2 and DIBD23 multiple section dampers ordered with factory furnished sleeves are normally shipped in complete assemblies.
If TDF or other flanged breakaway connections are to be used, order dampers with factory furnished sleeves actual size.

A STYLE DAMPERS

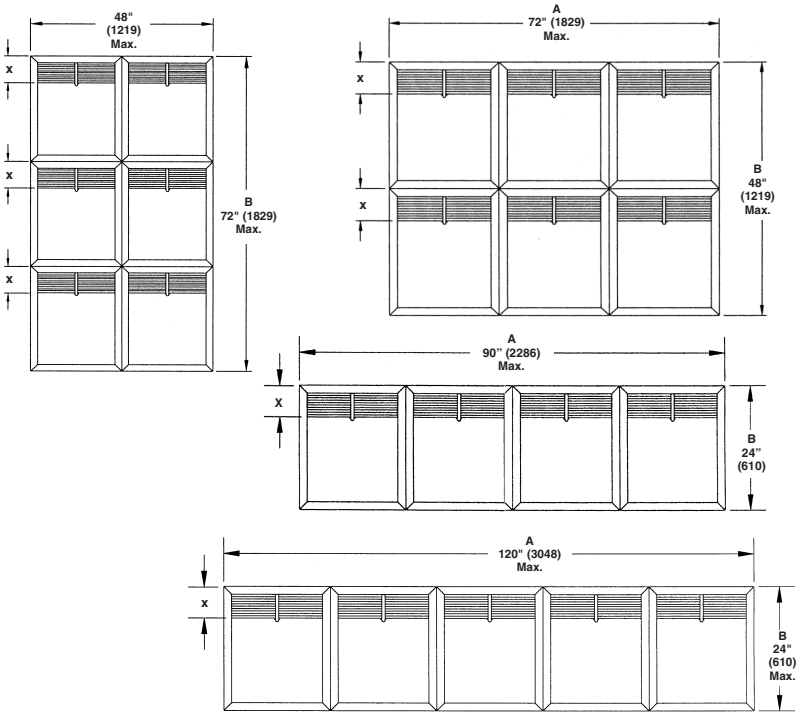
VERTICAL INSTALLATION

Important Note: Dampers larger than 33" x 36" (838 x 914) are multiple section dampers consisting of equal sections no larger than 24" x 24" (610 x 610).

Single Section Dampers



Multiple Section Dampers



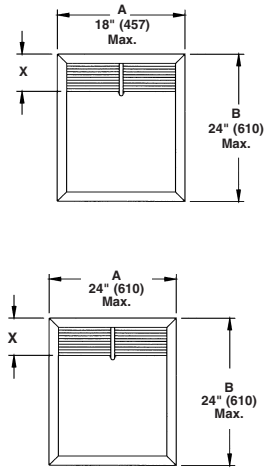
		Blade Dimensions	
B		X	
6	(152)	1 1/2	(38)
7	(178)	1 1/2	(38)
8	(203)	1 3/4	(44)
9	(229)	1 3/4	(44)
10	(254)	1 3/4	(44)
11	(279)	2	(51)
12	(305)	2	(51)
13	(330)	2 3/8	(60)
14	(356)	2 3/8	(60)
15	(381)	2 5/8	(67)
16	(406)	2 5/8	(67)
17	(432)	2 5/8	(67)
18	(457)	2 3/4	(70)
19	(483)	2 3/4	(70)
20	(508)	3 1/4	(83)
21	(533)	3 1/4	(83)
22	(559)	3 1/2	(89)
23	(584)	3 1/2	(89)
24	(610)	3 1/2	(89)
25	(635)	3	(76)
26	(660)	3	(76)
27	(686)	3 1/4	(83)
28	(711)	3 1/4	(83)
29	(737)	3 1/2	(89)
30	(762)	3 1/2	(89)
31	(787)	3 1/2	(89)
32	(813)	3 5/8	(92)
33	(838)	3 5/8	(92)
34	(864)	3 7/8	(98)
35	(889)	3 7/8	(98)
36	(914)	4	(102)

Dimensions shown in parentheses ( ) indicate millimeters.

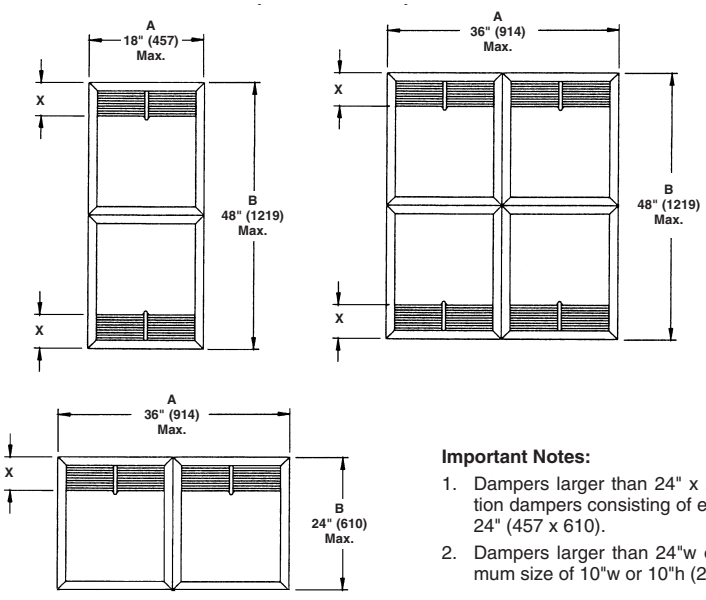
HORIZONTAL INSTALLATION

Important Note: Dampers larger than 33" x 36" (838 x 914) are multiple section dampers consisting of equal sections no larger than 24" x 24" (610 x 610).

Single Section Dampers



Multiple Section Dampers



		Blade Dimensions	
B		X	
6	(152)	1 1/2	(38)
7	(178)	1 1/2	(38)
8	(203)	1 3/4	(44)
9	(229)	1 3/4	(44)
10	(254)	1 3/4	(44)
11	(279)	2	(51)
12	(305)	2	(51)
13	(330)	2	(51)
14	(356)	2	(51)
15	(381)	2 3/8	(60)
16	(406)	2 3/8	(60)
17	(432)	2 3/8	(60)
18	(457)	2 5/8	(67)
19	(483)	2 5/8	(67)
20	(508)	2 3/4	(70)
21	(533)	2 3/4	(70)
22	(559)	3	(76)
23	(584)	3	(76)
24	(610)	3	(76)

Dimensions shown in parentheses ( ) indicate millimeters.

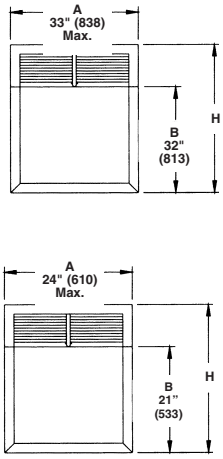
Important Notes:

1. Dampers larger than 24" x 24" (610 x 610) are multiple section dampers consisting of equal sections no larger than 18" x 24" (457 x 610).
2. Dampers larger than 24"w or 24"h (610 x 610) have a minimum size of 10"w or 10"h (254 x 254).

B AND BC STYLE DAMPERS

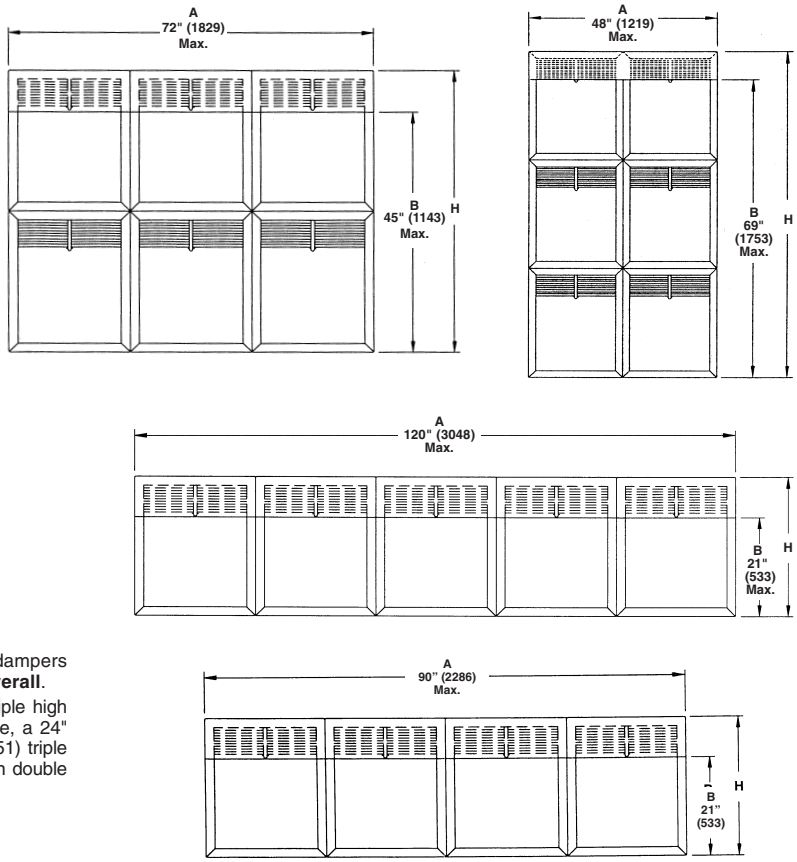
VERTICAL INSTALLATION

Single Section Dampers



B	H	H For dampers larger than 24" (610) W
4 (102)	5¾ (146)	
5 (127)	6¾ (171)	
6 (152)	7¾ (197)	
7 (178)	8¾ (222)	
8 (203)	9¾ (248)	
9 (229)	11¾ (298)	10¾ (273)
10 (254)	12¾ (324)	11¾ (298)
11 (279)	13¾ (349)	
12 (305)	14¾ (375)	
13 (330)	15¾ (400)	
14 (356)	16¾ (425)	
15 (381)	17¾ (451)	
16 (406)	18¾ (476)	
17 (432)	20¾ (527)	19¾ (502)
18 (457)	21¾ (552)	20¾ (527)
19 (483)	22¾ (578)	21¾ (552)
20 (508)	23¾ (603)	22¾ (578)
21 (533)	23¾ (603)	
22 (559)	25¾ (654)	
23 (584)	26¾ (679)	
24 (610)	27¾ (705)	
25 (635)	28¾ (730)	
26 (660)	29¾ (756)	
27 (686)	30¾ (781)	
28 (711)	31¾ (806)	
29 (737)	32¾ (832)	
30 (762)	33¾ (857)	
31 (787)	34¾ (883)	
32 (813)	35¾ (908)	

Multiple Section Dampers



Important Note:

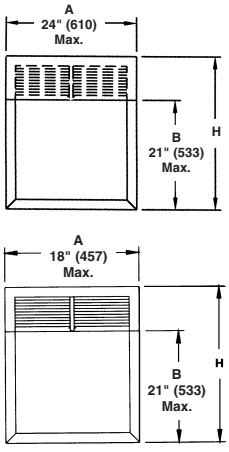
Dampers larger than 33" x 32" (838 x 813) are multiple section dampers consisting of equal sections no larger than 24" x 24" (610 x 610) **overall**.

To determine the overall height (H dimension) of double high and triple high damper assemblies: Add 2¾" (70) to the B dimension. For example, a 24" (610) double high assembly is 26¾" (679) overall height. A 65" (1651) triple high assembly is 67¾" (1721) overall height. The bottom sections on double and triple high assemblies are Style A dampers.

Dimensions shown in parentheses ( ) indicate millimeters.

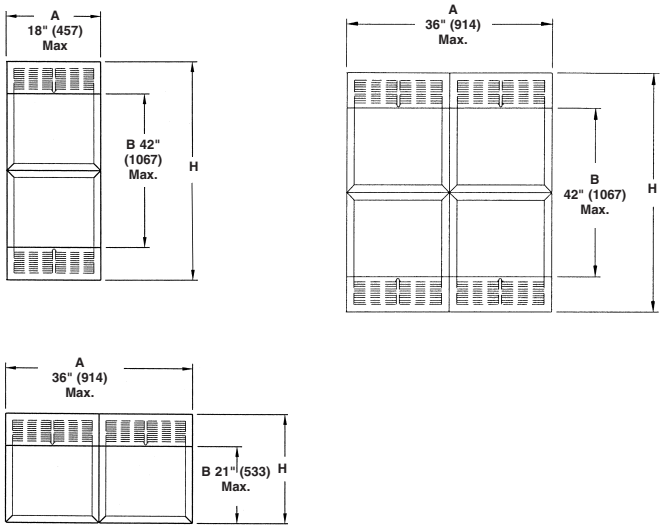
HORIZONTAL INSTALLATION

Single Section Dampers



B	H
4 (102)	5¾ (146)
5 (127)	6¾ (171)
6 (152)	7¾ (197)
7 (178)	8¾ (222)
8 (203)	10¾ (273)
9 (229)	11¾ (298)
10 (254)	12¾ (324)
11 (279)	13¾ (349)
12 (305)	14¾ (375)
13 (330)	15¾ (400)
14 (356)	16¾ (425)
15 (381)	17¾ (451)
16 (406)	18¾ (476)
17 (432)	19¾ (502)
18 (457)	20¾ (527)
19 (483)	21¾ (552)
20 (508)	22¾ (578)
21 (533)	23¾ (603)

Multiple Section Dampers



Important Notes:

1. Dampers larger than 24" x 21" (610 x 533) are multiple section dampers consisting of equal sections no larger than 18" x 24" (457 x 610) **overall**.
2. Dampers larger than 24"w or 21"h (610 x 533) have a minimum size of 10"w or 8"h (254 x 203).

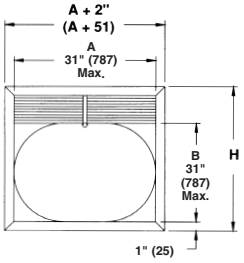
To determine the overall height (H dimension) of double high damper assemblies: Add 3½" (89) to B dimension on dampers over 21" (533) through 24" (610) and 5½" (140) on all other dampers. For example, a damper with a 28" (711) B dimension has an overall H dimension of 33½" (851).

Dimensions shown in parentheses ( ) indicate millimeters.

C, CO, WC, WO, LO AND LC STYLE DAMPERS

VERTICAL INSTALLATION

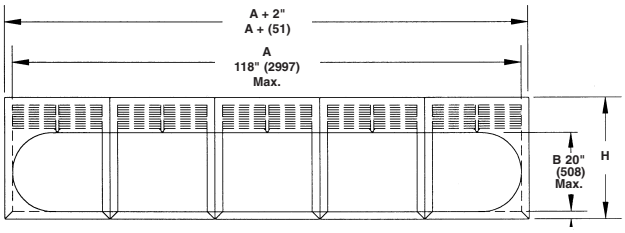
Single Section Dampers

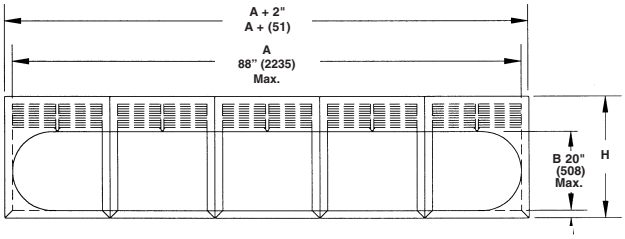


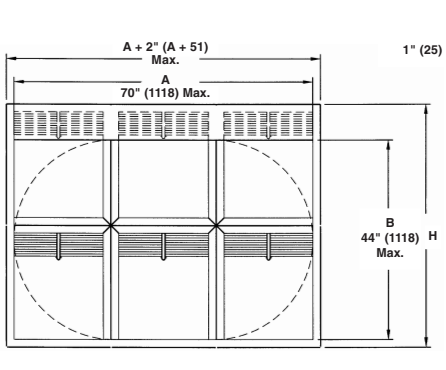
Important Note: Dampers larger than 31" x 31" (787 x 787) are multiple section dampers consisting of equal sections no larger than 24" x 24" (610 x 610) **overall**.

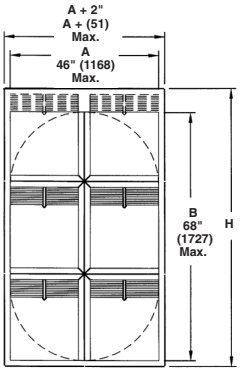
To determine the overall height (H dimension) of double high and triple high damper assemblies: Add 3¾" (95) to the B dimension. For example, a 24" (610) double high assembly is 27¾" (705) overall height. A 64" (1626) triple high assembly is 67¾" (1721) overall height. The bottom sections on double and triple high assemblies are Style A dampers with blades in the air stream.

Multiple Section Dampers







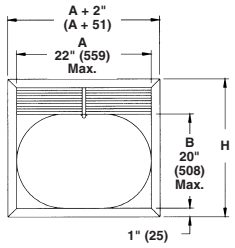


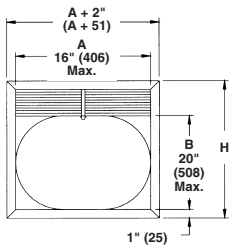
B		H	
3	(76)	5¾	(146)
4	(102)	6¾	(171)
5	(127)	7¾	(197)
6	(152)	8¾	(222)
7	(178)	9¾	(248)
8	(203)	11¾	(298)
9	(229)	12¾	(324)
10	(254)	13¾	(349)
11	(279)	14¾	(375)
12	(305)	15¾	(400)
13	(330)	16¾	(425)
14	(356)	17¾	(451)
15	(381)	18¾	(476)
16	(406)	20¾	(527)
17	(432)	21¾	(552)
18	(457)	22¾	(578)
19	(483)	23¾	(603)
20	(508)	23¾	(603)
21	(533)	25¾	(654)
22	(559)	26¾	(679)
23	(584)	27¾	(705)
24	(610)	28¾	(730)
25	(635)	29¾	(756)
26	(660)	30¾	(781)
27	(686)	31¾	(806)
28	(711)	32¾	(832)
29	(737)	33¾	(857)
30	(762)	34¾	(883)
31	(787)	35¾	(908)

Dimensions shown in parentheses ( ) indicate millimeters.

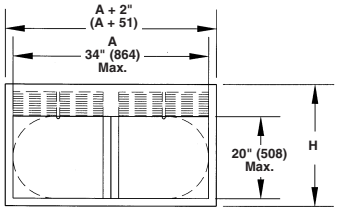
HORIZONTAL INSTALLATION

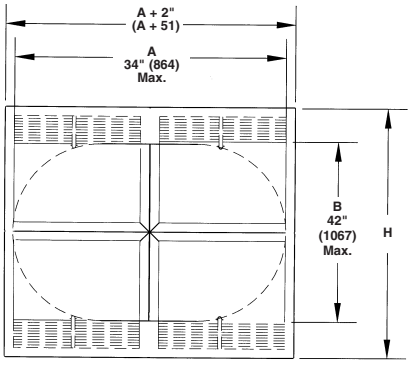
Single Section Dampers





Multiple Section Dampers





Important Notes:

1. Dampers larger than 22" x 20" (559 x 508) are multiple section dampers consisting of equal sections no larger than 18" x 24" (457 x 610) **overall**.
2. Dampers larger than 22"w or 20"h (559 x 508) have a minimum size of 8"w or 7"h (203 x 178).

To determine the overall height (H dimension) of double high damper assemblies: Add 3½" (89) to B dimension on dampers over 20" (508) through 24" (610) and 5½" (140) to the B dimension on all other dampers. For example, a 24" (610) double high assembly is 27½" (699) overall height. A 40" (1616) double high assembly is 45½" (1156) overall height.

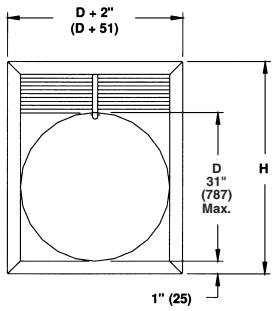
B		H	
3	(76)	5¾	(146)
4	(102)	6¾	(171)
5	(127)	7¾	(197)
6	(152)	8¾	(222)
7	(178)	10¾	(273)
8	(203)	11¾	(298)
9	(229)	12¾	(324)
10	(254)	13¾	(349)
11	(279)	14¾	(375)
12	(305)	15¾	(400)
13	(330)	16¾	(425)
14	(356)	17¾	(451)
15	(381)	18¾	(476)
16	(406)	19¾	(502)
17	(432)	20¾	(527)
18	(457)	21¾	(552)
19	(483)	22¾	(578)
20	(508)	23¾	(603)

Dimensions shown in parentheses ( ) indicate millimeters.

CR, WR AND LR STYLE DAMPERS

VERTICAL INSTALLATION

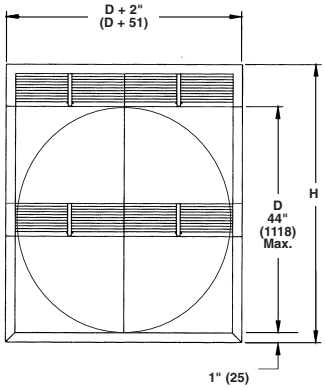
Single Section Dampers



Important Note: Dampers larger than 31" (787) diameter are multiple section dampers consisting of equal sections no larger than 24" x 24" (610 x 610) **overall**.

To determine the overall height (H dimension) of double high damper assemblies: Add 3¾" (95) to D dimension on dampers. For example, a 40" (1016) double high assembly is 43¾" (1111) overall height. The bottom sections on double high assemblies are Style A dampers with blades in the air stream.

Multiple Section Dampers

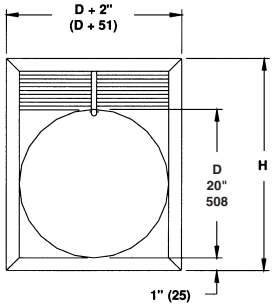


B		H	
3	(76)	5¾	(146)
4	(102)	6¾	(171)
5	(127)	7¾	(197)
6	(152)	8¾	(222)
7	(178)	9¾	(248)
8	(203)	11¾	(298)
9	(229)	12¾	(324)
10	(254)	13¾	(349)
11	(279)	14¾	(375)
12	(305)	15¾	(400)
13	(330)	16¾	(425)
14	(356)	17¾	(451)
15	(381)	18¾	(476)
16	(406)	20¾	(527)
17	(432)	21¾	(552)
18	(457)	22¾	(578)
19	(483)	23¾	(603)
20	(508)	23¾	(603)
21	(533)	25¾	(654)
22	(559)	26¾	(679)
23	(584)	27¾	(705)
24	(610)	28¾	(730)
25	(635)	29¾	(756)
26	(660)	30¾	(781)
27	(686)	31¾	(806)
28	(711)	32¾	(832)
29	(737)	33¾	(857)
30	(762)	34¾	(883)
31	(787)	35¾	(908)

Dimensions shown in parentheses ( ) indicate millimeters.

HORIZONTAL INSTALLATION

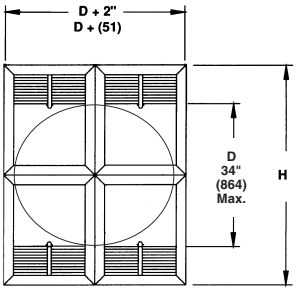
Single Section Dampers



Important Note: Dampers larger than 20" (508) diameter are multiple section dampers consisting of equal sections no larger than 18" x 24" (457 x 610) **overall**.

To determine the overall height (H dimension) of double high damper assemblies: Add 3½" (89) to D dimension on dampers over 20" (508) through 25" (635) and 5½" (140) on all other sizes. For example, a 24" (610) double high assembly is 27½" (699) overall height.

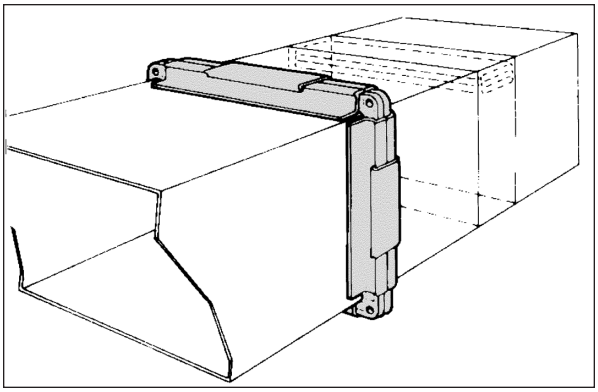
Multiple Section Dampers



B		H	
3	(76)	5¾	(146)
4	(102)	6¾	(171)
5	(127)	7¾	(197)
6	(152)	8¾	(222)
7	(178)	10¾	(273)
8	(203)	11¾	(298)
9	(229)	12¾	(324)
10	(254)	13¾	(349)
11	(279)	14¾	(375)
12	(305)	15¾	(400)
13	(330)	16¾	(425)
14	(356)	17¾	(451)
15	(381)	18¾	(476)
16	(406)	19¾	(502)
17	(432)	20¾	(527)
18	(457)	21¾	(552)
19	(483)	22¾	(578)
20	(508)	23¾	(603)

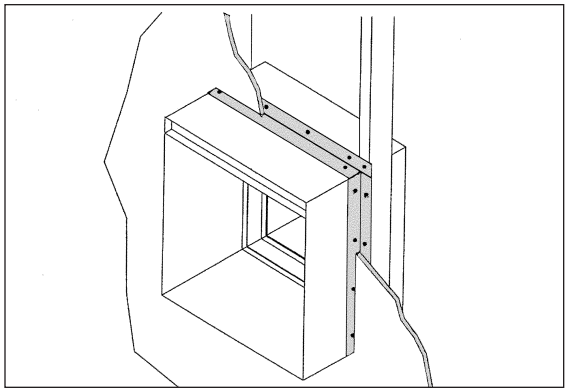
Dimensions shown in parentheses ( ) indicate millimeters.

LABOR SAVER OPTIONS



TDF OR DUCTMATE BREAKAWAY CONNECTIONS

Meet UL breakaway connection requirements without changing connectors. Ruskin fire dampers can be installed using non-matched flange connections for the breakaway requirement. Any flange connection can mate to a different type or model on Ruskin fire dampers.



FAST MOUNTING ANGLE

FAST mounting angles are used in lieu of conventional, eight piece mounting angles and are installed on only **one side of the wall** when used with Ruskin DIBD2 fire dampers. The FAST angle can be fastened directly to the metal stud underneath the fire rated gypsum wallboard.

SUGGESTED SPECIFICATION FOR DIBD2

Furnish and install, at locations shown on the plans, dynamic fire dampers tested, constructed and labeled in accordance with the latest edition of UL Standard 555. Dampers shall have a fire rating of 1½ hours and shall meet the requirements of the latest edition of NFPA90A.

Each damper shall include a 165°F (74°C) or 212°F (100°C) fusible link (***specifier select***) and shall be labeled for use in dynamic systems. Dampers labeled for use in static systems only are not permitted. The damper shall be rated for dynamic closure at 2000 fpm (10.16 m/s) and 4 inches w.g. (1 kPa) static pressure and shall be rated to close with airflow in either direction.

Each dynamic fire damper shall include a steel sleeve and mounting angles furnished by the damper manufacturer to ensure appropriate installation. Submittal information shall include the fire protection rating, maximum velocity/pressure ratings and the manufacturer's UL installation instructions. The dampers shall be installed in accordance with the manufacturer's UL installation instructions. Dynamic fire dampers shall be curtain type Ruskin model DIBD2.

SUGGESTED SPECIFICATION FOR DIBD23

Furnish and install, at locations shown on the plans, dynamic fire dampers tested, constructed and labeled in accordance with the latest edition of UL Standard 555. Dampers shall have a fire rating of 3 hours and shall meet the requirements of the latest edition of NFPA90A.

Each damper shall include a 165°F (74°C) or 212°F (100°C) fusible link (***specifier select***) and shall be labeled for use in dynamic systems. Dampers labeled for use in static systems only are not permitted. The damper shall be rated for dynamic closure to a minimum 2000 fpm (10.16 m/s) and 4 inches w.g. (1 kPa) static pressure and shall be rated to close with airflow in either direction.

Each dynamic fire damper shall include a steel sleeve and mounting angles furnished by the damper manufacturer to ensure appropriate installation. Submittal information shall include the fire protection rating, maximum velocity/pressure ratings and the manufacturer's UL installation instructions. The dampers shall be installed in accordance with the manufacturer's UL installation instructions. Dynamic fire dampers shall be curtain type Ruskin model DIBD23.

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