

# DIBD2-OW

## "Out Of Wall Or Floor" Fire Damper

1 1/2 Hour UL555 Rated For Use In Dynamic And Static Systems



### APPLICATION

Ruskin DIBD2/OW "Out of Wall" or "Out of Floor" Dynamic Fire Dampers are designed to be installed with the Frame and blades up to 8" (203) out of the wall or floor and is supplied with a factory insulated sleeve. The DIBD2/OW can be mounted with angle one side wall or top side of the floor. The DIBD2/OW is great for when retrofitting and the damper can not be installed with the blades within the wall/floor. Also used with louvers or grilles that the depth of the louver will not allow the damper to be within the plane of the wall.

### DYNAMIC CLOSURE RATINGS

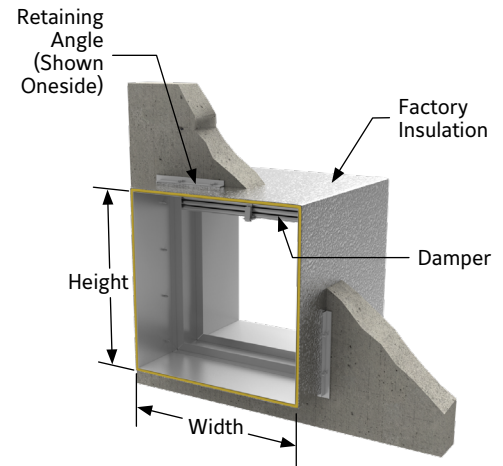
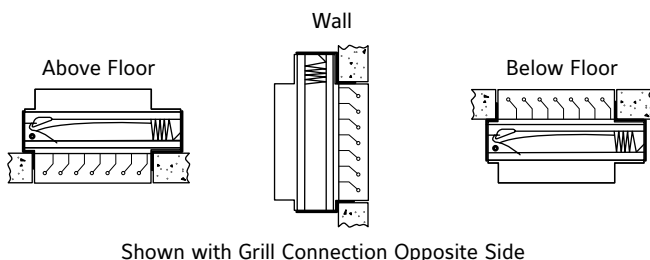
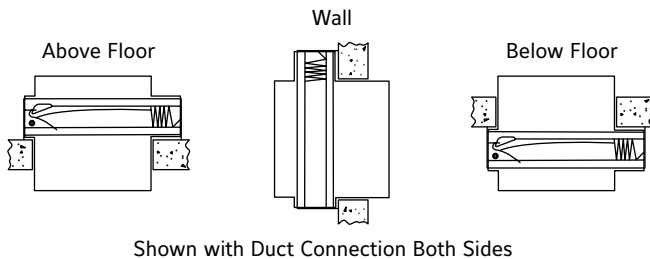
- 4000 fpm (20.3 m/s) vertical mount only, up to 24" x 24" (610 x 610)
- 3000 fpm (15.2 m/s) vertical and horizontal mount, up to 24" x 24" (610 x 610)
- 2000 fpm (10.2 m/s) vertical or horizontal mount on all sizes. 4 in. w.g. (1kPa) maximum pressure on all sizes

### STANDARD CONSTRUCTION

<b>Frame &amp; Blades</b>	Galvanized Steel (in gauges required by UL listing R-5531)
<b>Sleeve</b>	Galvanized Steel 18 gauge (1.2)
<b>Closure Springs (If Required)</b>	301 stainless steel constant force type or spring clip type
<b>Fusible Link</b>	165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) available

### DAMPER SIZES

<b>Minimum Size</b>	Style A – Vertical Installation – 4" w x 4" h (102 x 102) Style A – Horizontal Installation – 6" w x 6" h (152 x 152)
<b>Maximum Size</b>	Style A – Vertical or Horizontal Installation – 36" w x 36" h (914 x 914)



### OPTIONS

- Switch package** to remotely indicate damper blade position
- GA = Grille Access Type** for "out of the wall or floor" grille applications
- Sleeve** of various lengths and gauges to insure field compliance with UL installation requirements
- Stainless Steel** construction See Model DIBD2SS/OW

Ruskin's DIBD2/OW series fire dampers meet the requirements for fire dampers established by:

- ▶ **National Fire Protection Association**  
NFPA Standards 90A, 92A, 92B and 101
- ▶ **ICC International Building Codes**
- ▶ **CSFM California State Fire Marshal Listing**  
#3225-0245:005



SEE COMPLETE MARKING ON PRODUCT

**UL Classified**  
UL555 Listing R5531  
ULC S112

Note:  
- Dimensions shown in parentheses ( ) indicate millimeters.  
- Unit furnished approximately 1/4" (6) smaller than given opening dimensions.

## DAMPER DIMENSIONAL DATA

### DUCT TRANSITION CONNECTIONS

DIBD2/OW damper may be supplied with Round, Oval and Rectangular duct connections.

Style	Description
BC	Units Under 6" (152) Tall
WR	Round Welded (High Pressure)
WC	Rectangular Welded (High Pressure)
WO	Oval Welded (High Pressure)

See DIBD2 specification sheet for the over-all damper sizes on units with round, oval or rectangular transitions.

### MINIMUM and MAXIMUM SIZES

#### WR Round Transitions

- Minimum 4" (102) diameter
- Maximum 31" (864) diameter – vertical mount
- Maximum 20" (508) diameter – horizontal mount

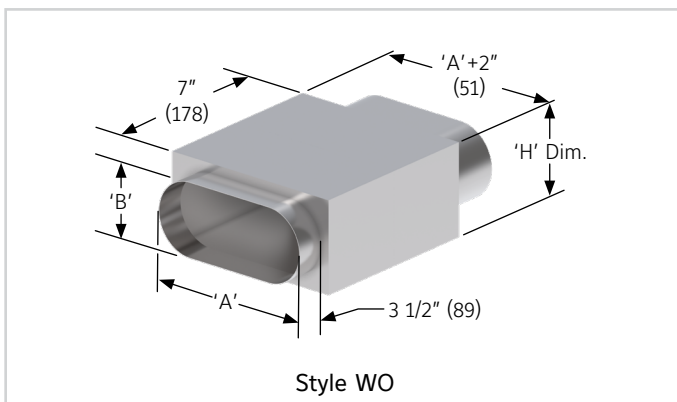
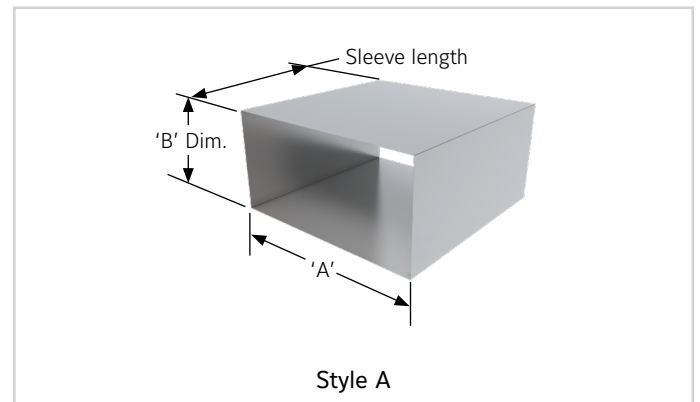
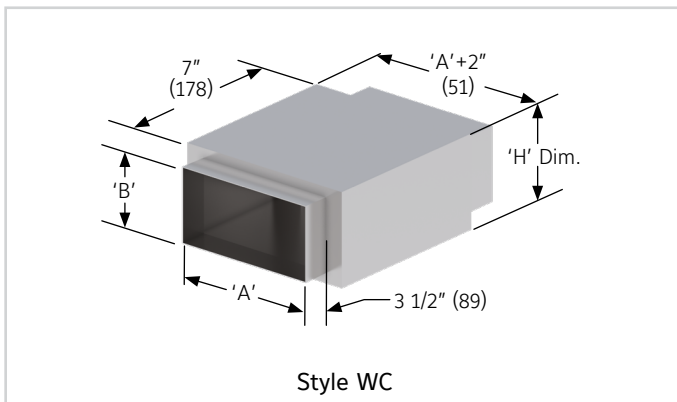
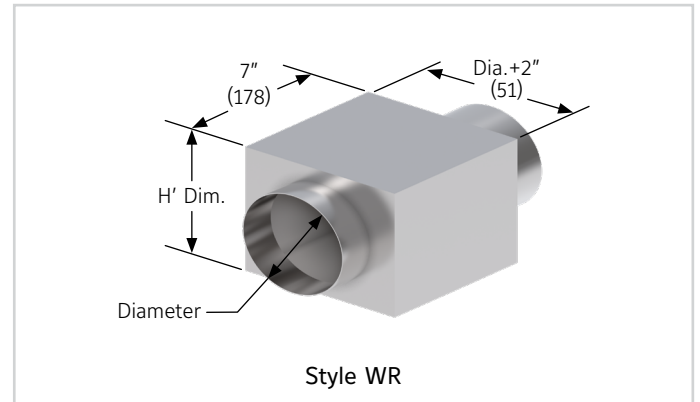
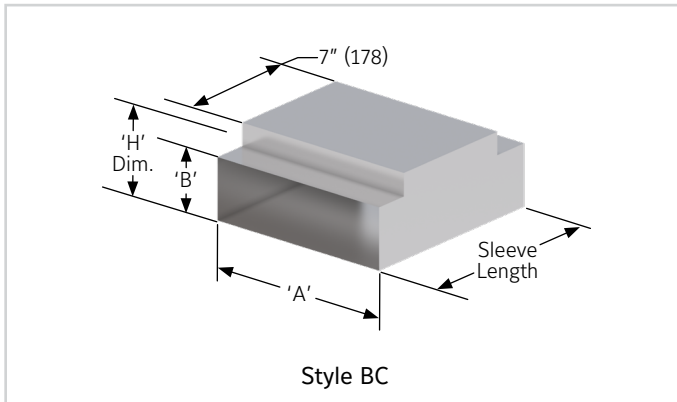
#### WO Rectangular and Oval Transitions

- Minimum 4" x 4" (102 x 102)
- Maximum 34" x 31" (864 x 787) – vertical mount
- Maximum 22" w x 20" h (559 x 508) – horizontal mount

#### 'BC' Style Transitions

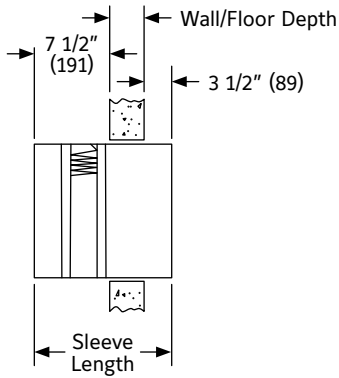
- Minimum 4" x 4" (102 x 102)
- Maximum 34" x 32" (864 x 813) – vertical mount
- Maximum 22" w x 21" h (559 x 533) – horizontal mount

Consult Ruskin for other available styles and sizes.



## DAMPER SLEEVE DIMENSIONAL DATA

The drawings show the position of the damper mounted in the factory sleeve. The standard location permits the damper to be installed outside the plane of the wall or floor. For damper styles WR, WC, WO and BC only the duct connection portion extends through the wall and the damper assembly is mounted flush with the wall.



### STYLE A

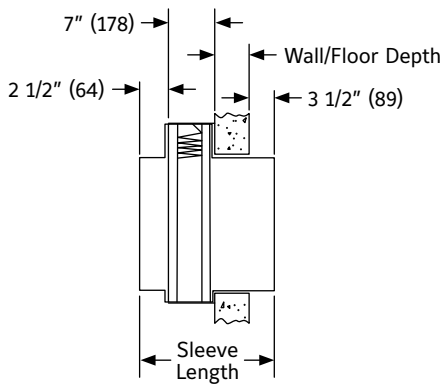
#### Sleeve Length Formula:

To determine correct sleeve length necessary: Add wall or floor depth + 7 1/2" (191).

#### Example:

Wall depth 4" (102) + 7 1/2" (191) = 11 1/2" (292).

Sleeve Length with Duct Connection on Both Side



### STYLES BC, WR, WC & WO

#### Sleeve Length Formula:

To determine correct sleeve length necessary: Add wall or floor depth + 9 1/2" (241) + 3 1/2" (89).

#### Example:

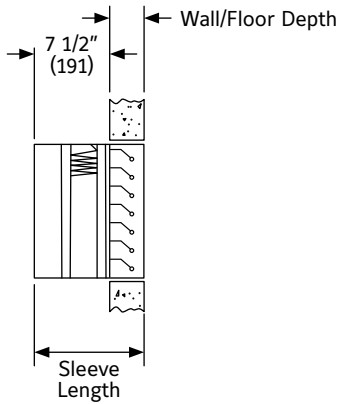
Wall depth 4" (102) + 9 1/2" (241) + 3 1/2" (89) = 17" (432).

#### NOTE:

For grille type installation with an "OW" damper, omit the 3 1/2" (89) sleeve extension.

Sleeve Length with Duct Connection on Both Side

## DAMPER SLEEVE DIMENSIONAL DATA



Sleeve Length with Grille Connection

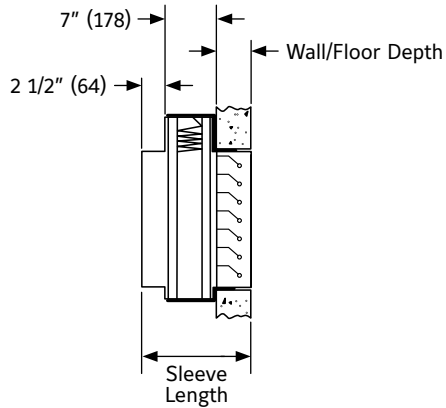
### STYLE A

#### Sleeve Length Formula:

To determine correct sleeve length necessary: Add wall or floor depth + 7 1/2" (191).

#### Example:

Wall depth 4" (102) + 7 1/2" (191) + 3 1/2" (89) = 15" (381).



Sleeve Length with Grille Connection

### STYLES BC, WR, WC & WO

#### Sleeve Length Formula:

To determine correct sleeve length necessary: Add wall or floor depth + 10 1/2" (241) + 3 1/2" (89).

#### Example:

Wall depth 4" (102) + 10 1/2" (241) = 14 1/2" (432).

### LINKS TO IMPORTANT DOCUMENTS

#### Document Title

Limited Warranty Document



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