Ruskin FD60/OW 1½ hour static fire dampers are designed for “out of the wall or floor” installation. The FD60/OW is designed for “through penetration” or “duct termination” with the damper up to 8” (203) out of the plane of the wall or floor. The FD60/OW is constructed from galvanized steel with an insulating material wrapped around the assembly.

**STANDARD CONSTRUCTION**

**FRAME**
5” x 1” x 16 gage (127 x 25 x 1.52) galvanized steel hat channel, structurally superior to 13 gage (2.3) channel frame.

**BLADES**
Single piece airfoil-shaped construction with 14 gage (1.90) equivalent, approximately 6” (152) on center.

**BEARINGS**
Stainless steel sleeve, pressed into frame.

**LINKAGE**
Concealed in frame.

**AXLES**
1½” (13) plated steel hex.

**FUSIBLE LINK**
165°F (74°C) standard or 212°F (100°C) available.

**DAMPER WEIGHT**
Approximately 18 lbs. per sq. ft.

**DAMPER SIZES**

**MINIMUM SIZE**
Vertical Installation – 8”w x 6’h (203 x 152)

**MAXIMUM SIZE**
Single Section
Vertical Installation – 32”w x 36’h (813 x 914)
Horizontal Installation – 30”w x 36’h (762 x 914)

Multiple Sections
Vertical or Horizontal Installation – 36”w x 36’h (914 x 914)

**OPTIONS**

- FM Approvals as Specification Tested Product.
- SP100 Switch Package to remotely indicate damper blade position.
- Sleeve of various lengths and gages to ensure field compliance with UL installation requirements.
- Jamb Seals stainless steel flexible metal compression type.
- Blade Seals, Silicone blade edge seals.
- FAST Angle for one side angle installation.
- PFMA Angles for two side angle installation.
- Crank Lever to assist with testing and fuse link replacement.
- GA, Grille Access for one side installation and “out of wall” applications (see models IBD2GA or DIBD2GA).

Notes:
1. Dimensions in inches, parentheses ( ) indicate millimeters.
2. Damper/sleeve assembly furnished actual size.

Ruskin FD60/OW 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 #3225-245:005

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

© Ruskin May, 2010
Ruskin Company certifies that the FD60/OW shown hereon is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. The AMCA Certified Ratings Seal applies to air performance for the FD60/OW.

To determine the AMCA Licensed air performance:
Locate the applicable feet per minute face velocity on the bottom of the velocity vs. pressure drop chart below. Move up the chart to the most appropriate size damper line. From the intersection point, move left to determine the pressure drop on the left side of the chart.
SLEEVE TRANSITION DIMENSIONAL DATA

DUCT TRANSITION CONNECTIONS
FD35SS dampers may be supplied with Round, Oval and Rectangular duct connections.

<table>
<thead>
<tr>
<th>Style</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BC</td>
<td>Units Under 6” (152) Tall</td>
</tr>
<tr>
<td>WR</td>
<td>Round Welded (High Pressure)</td>
</tr>
<tr>
<td>WC</td>
<td>Rectangular Welded (High Pressure)</td>
</tr>
<tr>
<td>WO</td>
<td>Oval Welded (High Pressure)</td>
</tr>
</tbody>
</table>

The square damper size will be 2” (51) larger in width and height than the round, oval or rectangular duct size ordered.

MINIMUM and MAXIMUM SIZES

<table>
<thead>
<tr>
<th>Style</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR Round Transitions</td>
<td>6” (152)</td>
<td>34” (864)</td>
</tr>
<tr>
<td>WO Rectangular and Oval Transitions</td>
<td>6” x 4” (152 x 102)</td>
<td>34” x 32” (864 x 813)</td>
</tr>
</tbody>
</table>

‘BC’ Style Transitions
Minimum height 4” (102) ‘B’ style transitions are utilized on units where the damper height is less than 6” (152).
Consult Ruskin for other available styles and sizes.

ORIENTATION

BELOW FLOOR

WALL

ABOVE FLOOR
Furnish and install at locations shown on plans or as described in schedules. AMC A Certified fire dampers constructed and tested in accordance with UL Safety Standard 555 that meet or exceed the following specifications. Fire dampers shall be produced in an ISO 9001 certified factory.

Damper frame, where size permits, shall be constructed using Uniframe Design Concept (UDC) and shall be minimum 16 gage (1.52) galvanized steel [or stainless steel] formed into a structural hatch channel superior to 13 gage (2.30) channel frame. Top and bottom frame members on dampers less than 13" (330) high shall be low profile design to maximize the free area of these smaller dampers. Damper blades shall be single piece airfoil shaped with 14 gage (1.90) equivalent thickness. Airfoil type blades generate low pressure drop and low noise levels. Bearings shall be stainless steel permanently lubricated sleeve type turning in an extruded hole in the frame for maximum life.

Each fire damper shall have a 1 1/2 hour fire protection rating and shall be supplied with a 185°F (74°C) or 212°F (100°C) fusible link. Fire dampers shall be approved for vertical or horizontal mounting as required by the location and are approved for installation “out of the wall or floor.” Dampers shall be installed using steel sleeves, angles and other materials and practice required to provide an installation in accordance with the damper manufacturer’s installation instructions. In addition, the fire dampers shall be AMC A licensed for air performance and shall bear the AMC A Certified Ratings Seal.

The FD60/OW carries a 1 1/2 hour UL fire damper label and is classified as a static damper for use in HVAC systems that shut down during a fire.

Optional FM Approvals Specification
Each fire damper shall be listed in Factory Mutual (FM) Approvals Specification Tested Product and labeled accordingly. Fire dampers shall be Ruskin model FD60/OW.

(Consult www.ruskin.com for electronic version of this “Quick” spec as well as for complete 3-part CSI MasterFormat Specifications)