LLOYD
INDUSTRIES, INC.

Order Guide

www.firedamper.com
Fire Dampers

Description: Fire dampers are designed to restrict the spread of fire through ventilation systems by snapping shut when the fusible link melts.

Required information:

1. What are the dimensions of the damper? Width ______ X Height ______

Dampers are supplied ¼" less than ordered size unless “actual size” is specified.

2. What transition sleeve is needed?
   [ ] No transition, plain damper (Model 75A)
   [ ] 75CR: (round transition) Duct diameter ______
   [ ] 75CO: (oval transition) Oval width ______ Oval height ______
   [ ] 75C: (rectangular transition) Rectangle width ______ height ______

On the transition, we will determine the proper frame based on order dimensions you list.

3. What is the depth of the damper?
   [ ] 2” (Model 75D) 
   [ ] 4.25” (standard)

4. Is a sleeve required to increase the depth of the damper? [ ] Yes [ ] No

If so, what is the length ______ gauge ______

offset of damper in sleeve ______

5. Where are the blades positioned?
   [ ] In airstream (75-85% free area, standard)
   [ ] Out of airstream (80-90% free area and less resistance to air flow, Model 75B)

When ordering blades for out-of-airstream dampers, the “height” does not include the blade stack. (See our specs for more details.)

6. What is the mounting orientation of the damper?
   [ ] Horizontal (spring loaded with a blade lock)
   [ ] Vertical (gravity operated)

7. What fire rating is required?
   [ ] 1.5 hours (Model 75A) 
   [ ] 3 hours (Model 75L)

Three-hour dampers can only be mounted vertically.

8. What type of HVAC system is the damper for?
   [ ] Static: The HVAC system is required to shut down automatically during fire emergencies.
   [ ] Dynamic (DY series): The HVAC system continues to operate during the early phase of a fire, providing important smoke control.
     
     Dynamic Option: [ ] Parallel Blades style (Model FD-111-PB)
     Dynamic dampers can be mounted vertically or horizontally as well

9. What material is required for the construction of the damper?
   [ ] Galvanized steel (standard) [ ] Stainless steel

10. What temperature rating is required for the fusible link?
    [ ] 165˚F [ ] 212˚F [ ] 285˚F [ ] 375˚F [ ] 386˚F

11. Is an Electro Thermal Link needed? [ ] Yes [ ] No

Available for 1.5 hours fire rating only.

12. Are mounting angles needed?
    [ ] Full set of standard angles (4 per side, 8 total)
    [ ] Rapid mounting angle (4 total for one-sided mounting angle)

Date: ____________________________

Wholesaler
Name: ____________________________
Location: ____________________________
Salesman: ____________________________
Phone: ____________________________

Contractor
Company: ____________________________
Name: ____________________________
Job name: ____________________________
Signature: ____________________________
Comments ____________________________
Required information:

1. What are the dimensions of the damper?
   Width _____ X Height _____
   Dampers are supplied ¼” less than ordered size unless “actual size” is specified.

2. What transition sleeve is needed?
   - No transition, plain damper (Model SD-333-1-PB)
   - CR: (round transition) Duct diameter _____
   - CO: (oval transition) Oval width _____ Oval height _____
   - C: (rectangular transition) Rectangle width _____ height _____
   On the transition, we will determine the proper frame based on order dimensions you list.

3. What class smoke damper is required?
   - Class 1 Ultra-Low Leakage (SD-333-1-PB)
   - Class 2 Low Leakage (SD-333-2-PB)
   - Class 3 Leakage (SD-333-3-PB)
   Leakage class indicates the level of air leakage and pressure drop. See specs.

4. What material is required for the construction of the damper?
   - Galvanized steel (standard)
   - Stainless steel

5. What type of actuator/motor is required?
   - Electric: actuators work automatically to open and close a damper after responding to a signal.
   - Pneumatic: actuators operate by a combination of force created by air and spring force. (Siemens only)

6. What voltage electric actuator/motor is required?
   - 24 Volt
   - 120 Volt
   - 220 Volt

7. Is an end switch required?  Yes  No
   If yes, Belimo brand required

8. What brand actuator is required?
   - Siemens (standard)
   - Belimo

9. Where is the actuator mounted?
   - External (Outside Damper; out of the airstream)
     Actuator is mounted externally has options Right/Front or Left/Front.
   - Internal (Inside Damper; in the airstream)
     Actuator is mounted internally can be only mounted at Left/Front. See spec.

10. Are mounting angles needed?
    - Full set of standard angles (4 per side, 8 total)
    - Rapid mounting angle (4 total for one-sided mounting angle)
### Required information:

1. **What are the dimensions of the damper?**
   - **Width** X **Height**
   - Dampers are supplied ¼” less than ordered size unless “actual size” is specified.

2. **What transition sleeve is needed?**
   - [ ] No transition, plain damper (Model FSD-111-1-PB)
   - [ ] CR: (round transition) Duct diameter ______
   - [ ] CO: (oval transition) Oval width ______ Oval height ______
   - [ ] C: (rectangular transition) Rectangle width ______ height ______
   - On the transition, we will determine the proper frame based on order dimensions you list.

3. **What class fire/smoke damper is required?**
   - [ ] Class 1 Ultra-Low Leakage (FSD-111-1-PB)
   - [ ] Class 2 Low Leakage (FSD-111-2-PB)
   - [ ] Class 3 Leakage (FSD-111-3-PB)
   - Leakage class indicates the level of air leakage and pressure drop. See specs.

4. **What fire rating is required?**
   - [ ] 1.5 hours (Model FSD)  
   - [ ] 3 hours (Model FSDL)

5. **What material is required for the construction of the damper?**
   - [ ] Galvanized steel (standard)  
   - [ ] Stainless steel

6. **What type of actuator/motor is required?**
   - [ ] Electric: actuators work automatically to open and close a damper after responding to a signal.
   - [ ] Pneumatic: actuators operate by a combination of force created by air and spring force. (Siemens only)

7. **What voltage electric actuator/motor is required?**
   - [ ] 24 Volt  
   - [ ] 120 Volt  
   - [ ] 220 Volt

8. **Is an end switch required?**
   - [ ] Yes  
   - [ ] No
   - If yes, Belimo brand required.

9. **What brand actuator is required?**
   - [ ] Siemens (standard)  
   - [ ] Belimo

10. **Where is the actuator mounted?**
    - [ ] External (Outside Damper; out of the airstream)
    - [ ] Internal (Inside Damper; in the airstream)
    - Actuator is mounted externally has options Right/Front or Left/Front.
    - Actuator is mounted internally can only be mounted at Left/Front. See specs.

11. **Are mounting angles needed?**
    - [ ] Full set of standard angles (4 per side, 8 total)
    - [ ] Rapid mounting angle (4 total for one-sided mounting angle)

12. **Is a LloydStat resettable, reusable link required?**
    - [ ] Yes  
    - [ ] No

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**Combination Fire/Smoke Dampers**

**Description:** Fire/Smoke dampers are designed to prevent the passage of both flame and smoke in the event of a fire.

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![Image of damper](image-url)
Corridor Fire/Smoke Dampers

**Description:** Corridor Fire/Smoke Dampers are a combination of fire and smoke dampers that have been evaluated for mounting only in specific corridor use.

**Required information:**

1. What are the dimensions of the damper?
   - Width ________ X Height ________
   - Dampers are supplied ¼” less than ordered size unless “actual size” is specified.

2. What class smoke damper is required?
   - Class 1 Ultra-Low Leakage (CFSD-222-1-PB)
   - Class 2 Low Leakage (CFSD-222-2-PB)
   - Class 3 Leakage (CFSD-222-3-PB)
   - Leakage class indicates the level of air leakage and pressure drop. See specs.

3. What material is required for the construction of the damper?
   - Galvanized steel (standard)
   - Stainless steel

4. What type of actuator/motor is required?
   - Electric: actuators work automatically to open and close a damper after responding to a signal.
   - Pneumatic: actuators operate by a combination of force created by air and spring force. (Siemens only)

5. What voltage electric actuator/motor is required?
   - 24 Volt
   - 120 Volt
   - 220 Volt

6. Is an end switch required?  Yes  No
   - If yes, Belimo brand required.

7. What brand actuator is required?
   - Siemens (standard)
   - Belimo

8. Where is the actuator mounted?
   - External (Outside Damper; out of the airstream)
   - Actuator is mounted externally has options Right/Front or Left/Front.
   - Internal (Inside Damper; in the airstream)
   - Actuator is mounted internally can be only mounted at Left/Front. See specs.

9. Are mounting angles needed?
   - Full set of standard angles (4 per side, 8 total)
   - Rapid mounting angle (4 total for one-sided mounting angle)

10. Is a LloydStat resettable, reusable link required?
    - Yes  No

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| Min: | 8' x 8' |
| Max: | 24' x 24' |

**Date:**

**Wholesaler**
- Name: __________________________
- Location: __________________________
- Salesman: __________________________
- Phone: __________________________

**Contractor**
- Company: __________________________
- Name: __________________________
- Job name: __________________________
- Signature: __________________________
- Comments: __________________________
Ceiling Radiation Dampers

Description: CRDs are used to protect HVAC openings in fire-rated horizontal ceiling assemblies. Damper closes automatically to restrict the passage of heat.

Required information:
1. What type of CRD is needed?
   - Square (Models 45&50)
   - Round (Model 55)

   *For Square Type CRD*
2. What are the dimensions of the CRD?
   - Width __________ X Height __________
   - Dampers are supplied ¼” less than ordered size unless “actual size” is specified.
3. What style of CRD is needed?
   - Butterfly double blades (standard, CRD-50)
   - Easy Access butterfly double blades (CRD50-EA)
   - Curtain blade 4-1/4” depth (CRD45-LT)
   - Curtain blade 2” depth (CRD45-LTD)
   - 4” single blade (CRD50-4X)
   - 6” single blade (CRD50-6X)
   - Easy Access is a wire which facilitates resetting fusible links

   *For Round Type CRD*
2. What is the diameter of the CRD? __________
   - Dampers are supplied ¼” less than ordered size unless “actual size” is specified.
3. What style of CRD is needed?
   - Butterfly double blades (standard, CRD-55)
   - Easy Access butterfly double blades (CRD55-EA)

4. What temperature rating is required for the fusible link?
   - 165˚F
   - 212˚F
5. What material is required for the construction of the CRD?
   - Galvanized steel (standard)
   - Stainless steel

Date: ____________________________
Wholesaler
Name: ____________________________
Location: __________________________
Salesman: _________________________
Phone: ____________________________
Contractor
Company: __________________________
Name: ____________________________
Job name: __________________________
Signature: _________________________
Comments
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
Required information:

1. What are the dimensions of the boot?
   Width _____ X Height _____ X Colar dia. _____

2. What type of boot is required?
   - 50CRD/95-BT-90: 90˚ Boot
     What is the gauge?   26   30 (standard)
   - 50CRD/96-BT: End Boot
     What is the gauge?   26   30 (standard)
   - 50CRD/98-BT: Straight Boot
     What is the gauge?   26   30 (standard)
   - Metal Register Box Assemblies
     - Insulated    - Non-Insulated
     - Top Outlet   - Side Outlet
     For models 50CRD-BT, 55CRD-BT, 45LT-BT & 45LTD-BT
     Top outlet is only available with round CRD Model 55.
   - Fiberglass Plenum Box Assemblies (FGPB)
     - 4.2 Insulation   - 6.0 Insulation
     - Knocked Down (Model J) - Assembled (Model K)
     - Tapped In - Tapped In and Mounted

3. What material is required for the construction of the boot?
   - Galvanized steel (standard)   - Stainless steel

   More varieties of boots are shown in the Ceiling Radiation Damper catalog.

Date: ____________________________

Wholesaler
Name: ____________________________
Location: __________________________
Salesman: _________________________
Phone: ____________________________

Contractor
Company: __________________________
Name: ____________________________
Job name: __________________________
Signature: _________________________
Comments
_________________________________
__________________________________
__________________________________
__________________________________
__________________________________

www.firedamper.com
Air Control Dampers

Description: Air control damper is used to control airflow and is considered medium to heavy duty.

Required information:
1. What type of air control damper is needed?
   - [ ] Square (Models 10&20)  [ ] Round (Models 30&40)
   
   *For Square Type AC damper*

2. What are the dimensions of the damper? Width _______ X Height _______
   Dampers are supplied ¼" less than ordered size unless “actual size” is specified.

3. What blade motion is the damper?
   - [ ] Parallel blades: are used when greater control is required near the top of the damper or for systems requiring position operation (fully opened or fully closed).
   - [ ] Opposed blade: are used for applications where it is necessary to maintain even distribution of air downstream from damper.
   
   *The minimum height of opposed blade dampers is 10¾”*

4. What type of blade is required?
   - [ ] 3V blade  [ ] Airfoil blade (more strength, less turbulence)
   
   *For Round Type AC damper*

5. What is the diameter of the damper?

6. What style round damper is required?  
   - [ ] Square-to-round  [ ] True round
   
   *The minimum depth of square-to-round is 14” to accommodate for the sleeve and collar.*

7. What material is required for the construction of the damper?
   - [ ] Galvanized steel (standard)  [ ] Stainless steel  [ ] Aluminum

8. What type of actuator/motor is required?
   - [ ] Electric (actuators work automatically to open and close a damper after responding to a signal.)
   - [ ] Pneumatic (actuators operate by a combination of force created by air and spring force.)
   - [ ] Manual Quadrant

9. What voltage actuator/motor is required?
   - [ ] 24 Volt  [ ] 120 Volt  [ ] 220 Volt

10. Is an end switch required?  [ ] Yes  [ ] No
    *If yes, Belimo brand required.*

11. What brand actuator is required?
    - [ ] Siemens (standard)  [ ] Belimo

12. Where is the actuator mounted?
    - [ ] External (Outside Damper; out of the airstream)
    - [ ] Internal (Inside Damper; in the airstream, square type damper only)

13. What type of seals are desired?
    - [ ] Neoprene blade seals  
    - [ ] Stainless steel jamb seals  
    - [ ] Stainless steel jamb and blades seals

14. What type of frame is required?
    - [ ] Channel frame (standard)  
    - [ ] Flat head sill (for dampers 10.25” or less - saves space)  
    - [ ] Flanged sill  [ ] Flanged frame

15. What type of bearing is desired?
    - [ ] Non-metallic calcon bearings (standard)  
    - [ ] Bronze bearings

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To Kwa Wan, Kowloon, H.K.  
Tel: 852-2760-4188  
Fax: 852-2760-4177  
Email: tatanlexyim@lloydasia.com
Required information:

1. What are the dimensions of the louver?
   Width _______ X Height _______
   Louvers are supplied ¼” less than ordered size unless “actual size” is specified.

2. What type of louver do you need?
   □ Storm resistant (2” and 4” depth available)
   □ Drainable (4” and 6” depth available, 33º blades optional)
   □ Chevron (4” depth available)

3. What is the depth of the louver?
   □ 2”   □ 4”   □ 6”

4. What is the frame type of the louver?
   □ Channel frame: can be installed flush or recessed in the face of a wall.
   □ Flanged frame: hides the edges of the opening.

5. What screen is needed?
   □ Galvanized steel 1/2” X 1/2” mesh bird screen (standard)
   □ Aluminum woven 1/2” X 1/2” mesh bird screen
   □ Aluminum 1/16” X 1/16” mesh insect screen

6. What material is required for the construction of the louver?
   □ Aluminum (standard)
   □ Stainless steel
   □ Copper

7. What finish is desired?
   □ Mill finish (standard)
   □ Clear anodized
   □ Color anodized
   □ Baked enamel
   □ Kynar
   □ Powder coat
   For color finishes, indicate the color at time of quote request.
   If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher.
**Brick Vents**

**Description:** A permanent means of ventilation for crawl spaces, hung ceilings, incinerator rooms, chimney flues, foundations, pipe spaces and corridors.

**Required information:**

1. What are the dimensions of the brick vent?
   - Width __________ X Height __________
   - Vents are supplied ¼” less than ordered size unless “actual size” is specified.

2. What is the depth of the brick vent?
   - [ ] 1” (Flanged frame)
   - [ ] 4” (Channel frame)
   - Channel frame: can be installed flush or recessed in the face of a wall.
   - Flanged frame: hides the edges of the opening.

3. What finish is desired?
   - [ ] Mill finish (standard)
   - [ ] Clear anodized
   - [ ] Color anodized
   - [ ] Baked enamel
   - [ ] Kynar
   - [ ] Powder coat
   - For color finishes, indicate the color at time of quote request.
   - If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher.

**See specs for min and max sizes**

- Date: ____________________________
- Wholesaler
  - Name: __________________________
  - Location: ________________________
  - Salesman: ______________________
  - Phone: __________________________
- Contractor
  - Company: ________________________
  - Name: __________________________
  - Job name: _______________________
  - Signature: _______________________
  - Comments
    - _______________________________
    - _______________________________
    - _______________________________
    - _______________________________

**Contact Information:**
- **Lloyd Industries Inc.**
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  - Email: lloydind@firedamper.com
  - [www.firedamper.com](http://www.firedamper.com)

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  - 138 Industrial Loop West
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  - Email: tatanlexyim@lloydasia.com

[www.lloyddamper.com](http://www.lloyddamper.com)
Required information:

**For Rectangular Dampers**

1. What is the orientation (mount) of the damper?
   - [ ] Horizontal (used when flow is vertical, in ceiling)
   - [ ] Vertical (used when flow is horizontal, in wall)
   
   Back draft dampers cannot be used for downdraft applications.

2. What are the dimensions of the damper?
   Width _______ X Height _______

   Dampers are supplied ¼" less than ordered size unless "actual size" is specified.

3. What is the frame type of the damper?
   - [ ] Channel frame: can be installed flush or recessed in the opening.
   - [ ] Flanged frame: hides the edges of the opening.
   
   For flanged frame, blades open:
   - [ ] Toward the flange
   - [ ] Away from the flange
   - [ ] To intake air
   - [ ] To exhaust air

4. Counter-balance weights need?:
   - [ ] Yes
   - [ ] No
   
   To assist closing
   To assist opening

5. What finish is desired?
   - [ ] Mill finish (standard)
   - [ ] Clear anodized
   - [ ] Color anodized
   - [ ] Baked enamel
   - [ ] Kynar
   - [ ] Powder Coat

   For color finishes, indicate the color at time of quote request.
   If no color is specified, we will quote the cost of standard colors, actual cost of custom colors may be higher.

**For True Round Dampers**

1. What is the diameter? _______

   Dampers are supplied ¼" less than ordered size unless "actual size" is specified.

2. What style is the damper?
   - [ ] AC30-BRD (for spiral duct)
   - [ ] AC40-BRD (for rigid duct)

3. What material is needed?
   - [ ] Galvanized
   - [ ] Stainless

4. What bearings are needed?
   - [ ] Celcon
   - [ ] Bronze

5. What shaft length is needed?
   - [ ] 3 inch
   - [ ] 4 inch

See specs for min and max sizes
Security Bars

Description: Security bars are available in cold rolled steel construction to guard access to restricted areas.

Required information:

1. What are the dimensions of the security bars?
   Width _______ X Height _______
   Bars are supplied ¼" less than ordered size unless "actual size" is specified.

2. Are the bars vertical only or both vertical and horizontal?
   □ Vertical (SB-1)
   □ Vertical and Horizontal (SB-2)

3. What finish is desired?
   □ Unfinished (standard)
   □ Painted
   □ Zinc plated
   □ Black oxide
   □ Primed
   Steel construction available only.

Date: ____________________________

Wholesaler
Name: ____________________________
Location: ____________________________
Salesman: ____________________________
Phone: ____________________________

Contractor
Company: ____________________________
Name: ____________________________
Job name: ____________________________
Signature: ____________________________
Comments
_________________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________
# Roof Curbs

**Description:** Curbs are designed to be placed over a hole in a roof to support equipment that will be placed on top of the curb such as an air handler, fan, etc.

**Required information:**

1. **What type of roof curb is required?**
   - [ ] Self-flashing
   - [ ] Canted
   - [ ] Pitched—What is the pitch? _______
   - [ ] Curb adapter

2. **What are the dimensions of the curb?**
   - Length _______ Width _______ Height _______
   - *If ordering a curb adapter, specify bottom dimensions first.*

3. **What material is required for the construction of the curb?**
   - [ ] Galvanized steel (LS)
   - [ ] Aluminum (LA)

4. **Is a damper tray needed?**  
   - [ ] Yes  
   - [ ] No  
   - *A damper tray is an integral part of a curb that another damper can connect to.*

5. **Are security bars needed?**  
   - [ ] Yes  
   - [ ] No  
   - [ ] Vertical (SB-1)  
   - [ ] Vertical and Horizontal (SB-2)

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www.firedamper.com
**Equipment Support Rails**

**Description:** Used for supporting equipment on a roof such as piping, HVAC units and other heavy equipment.

**Required information:**

1. What type of rail is needed?  
   - [ ] Self-flashing  
   - [ ] Canted

2. What are the dimensions of the rail?  
   - Length _______ Width _______ Height _______

3. What material is required for the construction of the rail?  
   - [ ] Galvanized steel (LS)  
   - [ ] Aluminum (LA)

4. Is metal capping required?  
   - [ ] Yes  
   - [ ] No

---

**Wholesaler**

**Name:**  
**Location:**  
**Salesman:**  
**Phone:**

**Contractor**

**Company:**  
**Name:**  
**Job name:**  
**Signature:**  
**Comments**

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www.firedamper.com
Access Doors

Description: Access doors are designed to provide entry to ductwork to access fire products.

Required information:

1. What type of access door is required?
   a. ☐ Standard mount for duct work
      ☐ Hinged ☐ Cammed
   b. ☐ Stick-on mount for duct work
      ☐ Hinged ☐ Cammed
   c. ☐ Standard for sheet rock (only available in aluminum construction)
      ☐ Slot key ☐ Key lock when ordering
   d. ☐ Walk-In Access Door (standard latches apply on this model)
      Option: ☐ Keyed Latch ☐ 2 Inch ☐ 1 Inch
   e. ☐ Fire-rated access door (Model FRAD-V)

2. What are the dimensions of the door?
   Width ________ X Height ________
   Access doors are supplied ¼” less than order unless “actual size” is specified.
   Pipe diameter ________ (Models 65-RCAD & 60-RHAD)
   Round access doors are not “true” round but square or rectangular fitted with round pipe adapter (saddle type)

3. What material is required for the construction of the product?
   ☐ Galvanized Steel (standard)
   ☐ Stainless Steel
   ☐ Aluminum
   ☐ Power Coat (Model FRAD-V only)

4. Are tabs required for access door?
   ☐ 1” tabs ☐ 1.5” tabs (duct-mounted access doors only)

5. Is a viewport required?
   ☐ Yes ☐ No
Required information:

1. What is the size of the blanket?
   - 24"
   - 36"

2. Does the blanket require scrim?
   - Yes
   - No

   - Scrim is 6" long “X” pattern and die-cut with wire reinforcement on the blanket.

CTB-24:
- 1/4" thick, 8 lb. density ceramic fiber
- 24" x 24" face size
- For use with UL-classified ceiling radiation dampers

CTB-28:
- 1/4" thick, 8 lb. density ceramic fiber
- 28" x 28" face size
- For use with UL-classified ceiling radiation dampers