75 series
Static Fire Damper
1½ hour
UL Classified (UL 555) - 1½ hour rating, static for use in installations rated 2 hours or less
Standard profile (4¼") 22 Ga 1 piece rollformed frame
Type A Damper
Blades in air-stream
Type B Damper
Blades out of air-stream
Type C Damper
Blades and frame out of air-stream, 100% free area
Available for vertical or horizontal installations
(Type C available with round, oval, or rectangular collar)
Standard fusible link - 165° (or with optional 212°)
Available in galvanized and stainless steel.
Type A and B available in single-section sizes from 4"x3" to 60"x53", multi-section sizes to 120"x53"
Type C available in single-section sizes from 4" to 52"
Oval and Rectangular collars from 4"x4" to 58"x52"
Static Fire Damper

1½ hour series

UL Classified (UL 555) - 1½ hour rating, static for use in installations rated 2 hours or less

Standard profile (4¼") 22 Ga 1 piece rollformed frame

Type A Damper
Blades in air-stream

Type B Damper
Blades out of air-stream

Type C Damper
Blades and frame out of air-stream, 100% free area

Available for vertical or horizontal installations
(Type C available with round, oval, or rectangular collar)

Standard fusible link - 165° (or with optional 212°)

Available in galvanized and stainless steel.

Type A and B available in single-section sizes from 4"x3" to 60"x53", multi-section sizes to 120"x53"

Type C available in single-section sizes from 4" to 52"

Oval and Rectangular collars from 4"x4" to 58"x52"

ATI Is Making Your Job Easier With BIM and Master Spec

At Aire Technologies we pride ourselves in getting you high quality products fast by shipping the products you need tomorrow today. Now you can get those same high quality products in your specifications even faster and with even more accuracy. When designing your next duct system don't waste your time, get it right the first time. Between Master Spec® and BIM our full line of fire life safety products is now available on-demand for download online through the Resources section of our website. Currently, our Fire and Motorized Dampers are available in BIM format and all our products are available in Master Spec®. Adding ATI products to your specifications is now easier than ever and with our plans to expand the number of products in BIM format it can only get easier. It has always been our goal to get you what you need when you need it. Now you can get our product specification on-demand through airetechnologies.com, Master Spec®, and Autodesk® SEEK.

Scan the code or visit the ATI Resources Page @ http://qrs.ly/hq3rc56

www.airetechnologies.com | 1-866-421-2473
Aire Technologies, Inc. is proud to present our line of air management and life safety products for integration into your HVAC system design, fabrication, or installation. You can expect from Aire Technologies, Inc., the same unrivaled engineering, manufacturing quality, and delivery expertise, along with the commitment to excellence and value for which the DMI name has been known for more than 30 years.

Aire Technologies, Inc. products are a further extension of the DMI products that have been hallmarks for dependability, and provide the confidence you’ve come to expect.

Behind each product stands an engineering and technical support staff to ensure you have the right product to meet the requirements of your design or installation, and a sales, marketing, manufacturing, and shipping team to get you what you need, when you need it.

Additional product, ordering, and shipping information will be found in our product literature, spec data sheets, and on our website at airetechnologies.com.
<table>
<thead>
<tr>
<th>Table of Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRODUCT SUMMARY</td>
</tr>
<tr>
<td>STATIC FIRE DAMPERS</td>
</tr>
<tr>
<td>Series 75 - 1½ Hour Rated - Standard Profile</td>
</tr>
<tr>
<td>Type A, B, and C</td>
</tr>
<tr>
<td>Series 65 - 1½ Hour Rated - Thinline Profile</td>
</tr>
<tr>
<td>Type A and B</td>
</tr>
<tr>
<td>Series 05 - 3 Hour Rated - Standard Profile</td>
</tr>
<tr>
<td>Type A, B, and C</td>
</tr>
<tr>
<td>Series 95 - 3 Hour Rated - Thinline Profile</td>
</tr>
<tr>
<td>Type A and B</td>
</tr>
<tr>
<td>DYNAMIC FIRE DAMPERS</td>
</tr>
<tr>
<td>Series 77 - 1½ Hour Rated - Standard Profile</td>
</tr>
<tr>
<td>Type A, B, and C</td>
</tr>
<tr>
<td>Series 99 - 3 Hour Rated - Standard Profile</td>
</tr>
<tr>
<td>Type A, B, and C</td>
</tr>
<tr>
<td>Series 66 - 3 Hour Rated - Thinline Profile</td>
</tr>
<tr>
<td>Type A and B</td>
</tr>
<tr>
<td>Series 61 - 1½ Hour Rated - Thinline Profile</td>
</tr>
<tr>
<td>Type A and B</td>
</tr>
<tr>
<td>CEILING RADIATION DAMPERS</td>
</tr>
<tr>
<td>Series 51</td>
</tr>
<tr>
<td>Series 50</td>
</tr>
<tr>
<td>Series 57</td>
</tr>
<tr>
<td>Series 55</td>
</tr>
<tr>
<td>Series 50 With Boot Assembly</td>
</tr>
<tr>
<td>Series 50 With Box Assembly</td>
</tr>
<tr>
<td>Series 58 Duct Drop</td>
</tr>
<tr>
<td>Series 58 Register Opening</td>
</tr>
<tr>
<td>Series 58 Duct Drop - Round Inlet</td>
</tr>
<tr>
<td>COMBINATION FIRE &amp; SMOKE DAMPERS</td>
</tr>
<tr>
<td>Series 10</td>
</tr>
<tr>
<td>Series 30</td>
</tr>
<tr>
<td>SMOKE DAMPERS</td>
</tr>
<tr>
<td>Series 20</td>
</tr>
<tr>
<td>AIR CONTROL DAMPERS</td>
</tr>
<tr>
<td>Series 80</td>
</tr>
<tr>
<td>ACCESSORY ITEMS</td>
</tr>
<tr>
<td>Retaining Angles</td>
</tr>
<tr>
<td>Sleeves</td>
</tr>
<tr>
<td>Thermal Blankets</td>
</tr>
<tr>
<td>Fusible Links</td>
</tr>
<tr>
<td>RELATED PRODUCTS</td>
</tr>
<tr>
<td>Access Doors</td>
</tr>
</tbody>
</table>
FIRE DAMPERS

Fire Dampers are offered in two frame profiles: standard 4¼” and thinline 2”.
Blades are of an interlocking, curtain style.
Fire Dampers are offered in three types:
- **Type A** - in which the blades and frame are in the airstream
- **Type B** - in which the blades are out of the airstream
- **Type C** - in which the blades and frame are out of the airstream (100% Free Area)

Fire Dampers are offered in two mounting attitudes:
- **Vertical** - mounted in horizontal duct run and where blade closure is via gravity
- **Horizontal** - mounted in vertical duct run and where blade closure is spring facilitated

Fire dampers are UL 555 Classified and rated for 1½ hours or 3 hours. The dampers are activated via a heat responsive device known as a fusible link.

Fire dampers are offered for use in both static and dynamic systems
- **Static systems** are those in which the system fans shut down during fire and smoke control.
- **Dynamic systems** are those in which the system fans remain running during fire and smoke control.

In accordance with industry standard, fire dampers are undersized ¼”.

Fire dampers are available in galvanized and stainless steel.

CEILING RADIATION DAMPERS

Ceiling Radiation Dampers (CRDs) are offered in rectangular and round configurations. These are UL 555C classified for use in installations rated up to 3 hours. CRD blades are either a single blade style or a centrally hinged butterfly style.

Two options for link attachment are:
- **Standard link** - a link mounted between the blades
- **Easy Access link** - a link mounted between a hook and catch on the side of the blades

In accordance with industry standard, CRDs are undersized ¼”.

CRDs are available in galvanized and stainless steel.

WOOD TRUSS ASSEMBLIES

A combustible assembly is a form of construction comprised of a floor-ceiling or roof-ceiling as an assembly which, when fire tested as a unit, has been assigned a fire endurance rating expressed in hours.* Series 50 with boot or box, Series 57, and Series 58 are approved for floor/ceiling UL L-587 and roof/ceiling P-556 designs. Further information about L-587 and P-556 can be found in the UL Fire Resistance Directory. These assemblies are comparable to L-521, L-550, L-562, L-563, and P-544.

CERTIFICATIONS AND APPROVALS

ATI Fire Dampers are Ceiling Radiation Dampers have been approved by the New York City Department of Buildings MEA Division and by the California State Fire Marshal.
ATI products that have been approved by UL for L-587 have also been approved by Applied Research Laboratories (ARL) for use in fire resistive assemblies of L-563 and P-544 designs.
Aire Technologies is a member of NFPA, ASHRAE, SMACNA, and AMCA.

LEAKAGE RATED DAMPERS

Aire Technologies offers a variety of leakage rated dampers including Combination Fire & Smoke Dampers, Smoke Dampers, and Air Control Dampers. Smoke Dampers and Combination Fire & Smoke Dampers are available in three leakage ratings: Class I (ultra low leakage), Class II (low leakage), or Class III (leakage). ATI Smoke Dampers are UL 555S rated. The Combination Fire & Smoke Dampers are UL 555 & 555S rated for 1½ hours or 3 hours at 250° or 350°. Combination Fire & Smoke Dampers are provided in factory installed sleeves. The actuator may be 2-position or modulating and may be mounted internally or externally.

ACCESSORY ITEMS

A variety of items including sleeves, retaining angles, access doors replacement fusible links, and thermal blankets are offered for convenience in completion of the project’s design and/or installation.

1. Are these dampers to be installed in a system in which the fans continue to run during fire and smoke control?
   - ☐ Yes (Dynamic)
   - ☐ No (Static)

2. Are these dampers to be installed in ducts where they penetrate a:
   - ☐ Wall (Ductwork running horizontal)
   - ☐ Floor (Ductwork running vertical)

3. What is the fire rating of the partition? _______________

4. Are there any dimensional restrictions in the partition that might impact the profile (thickness) of the damper’s frame?
   - ☐ Yes
   - ☐ No

5. What are the duct dimensions? W____ X H____
   *Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades. The number of blades increases with damper height.*

6. The damper’s blades are to be:
   - ☐ In the air stream (Type A)
   - ☐ Out of the air stream (Type B)

7. The whole appliance, blades AND frame, are to be out of the air stream (100% free area):
   - ☐ Yes (Type C may have round, oval, or rectangular collars)
   - ☐ No

8. What fusible link temperature is required?
   - ☐ 165°
   - ☐ 212°

9. Are there any requirements for a product manufactured in stainless steel?
   - ☐ Yes
   - ☐ No

10. Will sleeves be factory or field installed?
    - ☐ Factory
    - ☐ Field
    *If factory, what is the length of sleeve required?*
    - ☐ 8"
    - ☐ 12"
    - ☐ 17"
    - ☐ 20"

11. Retaining angles to be supplied from:
    - ☐ Factory
    - ☐ Field
Static Fire Damper

1½ hour

UL Classified (UL 555) - 1½ hour rating, static for use in installations rated less than 3 hours

Standard profile (4¼") 22 Ga 1 piece rollformed frame

Type A Damper
- Blades in air-stream

Type B Damper
- Blades out of air-stream

Type C Damper
- Blades and frame out of air-stream, 100% free area

Available for vertical or horizontal installations
(Type C available with round, oval, or rectangular collar)

Standard fusible link - 165° (or with optional 212°)

Available in galvanized and stainless steel

### Damper Sizes

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4” x 4” to 60” x 60”</td>
<td>4” x 4” to 40” x 60”</td>
</tr>
<tr>
<td></td>
<td>120” x 120” Multi-section</td>
<td>120” x 120” Multi-section</td>
</tr>
<tr>
<td>Type B</td>
<td>4” x 3” to 60” x 54”</td>
<td>4” x 3” to 40” x 54”</td>
</tr>
<tr>
<td></td>
<td>120” x 114” Multi-section</td>
<td>120” x 108” Multi-section</td>
</tr>
<tr>
<td>Type C</td>
<td>4” to 53” Oval and Rectangular</td>
<td>4” to 38” Oval and Rectangular</td>
</tr>
<tr>
<td></td>
<td>4” x 4” to 58” x 52”</td>
<td>4” x 4” to 38” x 52”</td>
</tr>
</tbody>
</table>

Optional 22 Ga. Sleeve available:
- 8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Static Fire Damper

**Thinline 1½ hour**

### UL Classified (UL 555) - 1½ hour rating, static for use in installations rated less than 3 hours

- **Thinline** profile (2") 22 Ga 1 piece rollformed frame
- **Type A Damper**
  - Blades in air-stream
- **Type B Damper**
  - Blades out of air-stream
- Available for vertical or horizontal installations
- Standard fusible link - 165° (or with optional 212°)
- Available in stainless steel

### Damper Sizes

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type A</strong></td>
<td>4” x 4” to 48” x 49”</td>
<td>4” x 4” to 36” x 36”</td>
</tr>
<tr>
<td><strong>Type B</strong></td>
<td>4” x 3” to 48” x 41”</td>
<td>4” x 3” to 36” x 30”</td>
</tr>
</tbody>
</table>

**Optional 22 Ga. Sleeve available:**
8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Static Fire Damper

3 hour

UL Classified (UL 555) - **3 hour rating**, static for use in installations rated 3 hours or greater

Standard profile (4¼") 22 Ga 1 piece rollformed frame

Type A Damper
   - Blades in air-stream
Type B Damper
   - Blades out of air-stream
Type C Damper
   - Blades and frame out of air-stream, 100% free area

Available for vertical or horizontal installations
   (Type C available with round, oval, or rectangular collar)

Standard fusible link - 165° (or with optional 212°)

Available in stainless steel

<table>
<thead>
<tr>
<th>Damper Sizes</th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4” x 4” to 60” x 60” 120” x 120” Multi-section</td>
<td>4” x 4” to 40” x 60” 120” x 60” or 80” x 96” Multi-section</td>
</tr>
<tr>
<td>Type B</td>
<td>4” x 3” to 60” x 54” 120” x 114” Multi-section</td>
<td>4” x 3” to 40” x 54” 120” x 54” or 80” x 84” Multi-section</td>
</tr>
<tr>
<td>Type C</td>
<td>4” to 53” Oval and Rectangular 4” x 4” to 58” x 52”</td>
<td>4” to 38” Oval and Rectangular 4” x 4” to 38” x 52”</td>
</tr>
</tbody>
</table>

Optional 22 Ga. Sleeve available: 8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Static Fire Damper

**Thinline 3 hour series**

**UL Classified (UL 555) - 3 hour rating**, static for use in installations rated 3 hours or greater

**Thinline** profile (2") 22 Ga 1 piece rollformed frame

Type A Damper
- Blades in air-stream

Type B Damper
- Blades out of air-stream

Available for vertical installations **ONLY**

Standard fusible link - 165° (or with optional 212°)

Available in stainless steel

### Damper Sizes

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4&quot; x 4&quot; to 48&quot; x 49&quot;</td>
</tr>
<tr>
<td>Type B</td>
<td>4&quot; x 3&quot; to 48&quot; x 41&quot;</td>
</tr>
</tbody>
</table>

**Optional 22 Ga. Sleeve available:**
- 8", 12", 17", 20", or 24" lengths (12" is standard)
Dynamic Fire Damper

1½ hour

UL Classified (UL 555) - 1½ hour rating, dynamic for use in installations rated less than 3 hours

Standard profile (4¼") 22 Ga 1 piece rollformed frame

Type A Damper
- Blades in air-stream

Type B Damper
- Blades out of air-stream

Type C Damper
- Blades and frame out of air-stream, 100% free area

Available for vertical OR horizontal installations

For installation in systems where fans remain running during fire and smoke control

Standard fusible link - 165° (or with optional 212°)

Available in stainless steel

**Damper Sizes**

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4” x 4” to 36” x 36”</td>
<td>4” x 4” to 24” x 24”</td>
</tr>
<tr>
<td>Type B</td>
<td>4” x 3” to 36” x 32”</td>
<td>4” x 3” to 24” x 21”</td>
</tr>
<tr>
<td>Type C</td>
<td>4” to 31” Oval and Rectangular</td>
<td>4” to 20” Oval and Rectangular</td>
</tr>
<tr>
<td></td>
<td>4” x 4” to 34” x 31”</td>
<td>4” x 4” to 22” x 20”</td>
</tr>
</tbody>
</table>

Optional 22 Ga. Sleeve available:
- 8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Dynamic Fire Damper

**99 series**

**UL Classified (UL 555) - 3 hour rating**, dynamic for use in installations rated 3 hours or greater

Standard profile (4¾”) 22 Ga 1 piece rollformed frame

**Type A Damper**
- Blades in air-stream

**Type B Damper**
- Blades out of air-stream

**Type C Damper**
- Blades and frame out of air-stream, 100% free area

Available for vertical installations **ONLY**

For installation in systems where fans remain running during fire and smoke control

Standard fusible link - 165° (or with optional 212°)

Available in stainless steel

**Damper Sizes**

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4” x 4” to 36” x 36”</td>
<td>4” x 4” to 24” x 24”</td>
</tr>
<tr>
<td>Type B</td>
<td>4” x 4” to 36” x 32”</td>
<td>4” x 4” to 24” x 21”</td>
</tr>
<tr>
<td>Type C</td>
<td>4” to 31”</td>
<td>4” to 20”</td>
</tr>
<tr>
<td></td>
<td>Oval and Rectangular</td>
<td>Oval and Rectangular</td>
</tr>
<tr>
<td></td>
<td>4” x 4” to 34” x 31”</td>
<td>4” x 4” to 22” x 20”</td>
</tr>
</tbody>
</table>

**Optional 22 Ga. Sleeve available:**
- 8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Dynamic Fire Damper

*Thinline 3 hour*

UL Classified (UL 555) - **3 hour rating**, dynamic for use in installations rated 3 hours or greater

**Thinline** profile (2") 22 Ga 1 piece rollformed frame

- Type A Damper
  - Blades in air-stream
- Type B Damper
  - Blades out of air-stream

Available for vertical installations **ONLY**

For installation in systems where fans remain running during fire and smoke control

Standard fusible link - 165° (or with optional 212°)

Available in stainless steel

<table>
<thead>
<tr>
<th>Damper Sizes</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4” x 4” to 24” x 24”</td>
</tr>
<tr>
<td>Type B</td>
<td>4” x 4” to 24” x 20”</td>
</tr>
</tbody>
</table>

**Optional 22 Ga. Sleeve available:**
8”, 12”, 17”, 20”, or 24” lengths (12” is standard)
Static Fire Damper

UL Classified (UL 555) - 1½ hour rating, static for use in installations rated less than 3 hours

Thinline profile (2") 22 Ga 1 piece rollformed frame

Type A Damper
- Blades in air-stream

Type B Damper
- Blades out of air-stream

Available for vertical or horizontal installations

For installation in systems where fans remain running during fire and smoke control

Standard fusible link - 165° (or with optional 212°)

### Damper Sizes

<table>
<thead>
<tr>
<th></th>
<th>Vertical</th>
<th>Horizontal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type A</td>
<td>4&quot; x 4&quot; to 24&quot; x 24&quot;</td>
<td>4&quot; x 4&quot; to 12&quot; x 12&quot;</td>
</tr>
<tr>
<td>Type B</td>
<td>4&quot; x 4&quot; to 24&quot; x 20&quot;</td>
<td>4&quot; x 4&quot; to 4&quot; x 9&quot;</td>
</tr>
</tbody>
</table>

Optional 22 Ga. Sleeve available:
- 8", 12", 17", 20", or 24" lengths (12" is standard)
Information required for Ceiling Radiation Dampers

1. The dimensions of the duct opening are:
   - Rectangular
   - Round

2. It would be preferable to have the fusible link mounted:
   - Between the blades - SL
   - On the sides of the blades - EA (between a wire hook & catch)

3. What are the dimensions of the duct?
   - Always indicate the width first even if it is shorter than the height. The width dimension of a CRD will dictate the length of the blade and hinge.

4. What temperature fusible link is required?
   - 165°
   - 212°

5. Are there any requirements for a product manufactured in stainless steel?
   - Yes
   - No

6. Are these products being installed in a UL Classified wood truss floor/ceiling or roof/ceiling assembly?
   - Yes
   - No
   - Do you know the UL Classified number? This number will be specified by the architect.
     - Ex. Aire Technologies L-587

7. Does it need to be factory insulated?
   - Yes
   - No
   - If no, please choose one of the following:
     - Series 50 with L Boot
     - Series 50 with Straight Boot
     - Series 50 with End Boot
     - Series 50 with Metal Box (Model 50EAX)
   - If yes, please choose one of the following:
     - Series 57 – grille outlet
     - Series 58 – grille outlet or duct drop
   - If Series 58 is chosen, would you like the ductboard factory supplied or field supplied?
     - Factory
     - Field

1. For applications requiring increased airflow/efficiency a single blade “free-flow” CRD is available.
   - CONSULT FACTORY FOR DETAILS ABOUT Series 51 CRD’s INSTALLED IN BOOTS

2. Optional 8” throat available upon request.
Ceiling Radiation Damper

Series 51 SB

UL Classified (UL 555C) - for use in installations rated 3 hours or less

22 Ga 1 piece rollformed frame and blades

Standard fusible link - 165° (or with optional 212°)

Unique Easy Access link attachment

Available in stainless steel

Available in single-section sizes from 6” x 4” to 24” x 12”

For increased efficiency in small sizes where the hinge can severely diminish efficiencies, we recommend the 51SB. The single blade design improves efficiency with less components to obstruct air flow. This is especially beneficial in smaller sized outlets.
Ceiling Radiation Damper

UL Classified (UL 555C) - for use in installations rated 3 hours or less

22 Ga 1 piece rollformed frame and blades

Standard fusible link - 165° (or with optional 212°)

Easy access link attachment or standard link attachment

Ceramic thermal blanket provided on units with areas greater than 80 square inches

Available in stainless steel

Available in single-section sizes from 4” x 6” or 6” x 4” to 24” x 24”
Insulated Boot

UL Classified (UL 263) - For use in wood truss floor/ceiling assemblies rated 1 hour or less

Approved UL **L-587** floor/ceiling and **P-556** roof/ceiling designs, similar to other designs: L-521, 546, 550, 562, 563 and P-544

Incorporates UL 555C evaluated ceiling damper

22 Ga CRD frame and blades

28 Ga box and collar with 1½” R-6 duct liner insulation

Standard fusible link - 165° (or with optional 212°)

Standard Link attachment on 4” and 5” diameter “Easy Access” option on 6” and up diameter

Ceramic thermal blanket provided on units with CRD areas greater than 80 square inches

Available in stainless steel

Available in range of sizes from 4” x 8” x 4” to 16” x 16” x 12”

Unique approval for Class 0, Class 1 Flex-duct OR steel pipe (elbow) connections to achieve top-out or side-out configurations

**ONLY** UL tested and approved manufacturer offering this option
Ceiling Radiation Damper

UL Classified (UL 555C) - for use in installations rated 3 hours or less

22 Ga 1 piece rollformed frame and blades

Standard fusible link - 165° (or with optional 212°)

Easy access link attachment or standard link attachment

Ceramic thermal blanket provided on units with areas greater than 80 square inches

Available in stainless steel

55SL available in single-section sizes from 4”Ø to 24”Ø
55EA available in single-section sizes from 5”Ø to 24”Ø
Model 50 CRD with boot (UL 555C) is available with accompanying boots installed in 90° (“L”), straight, or end types with two (2) throat depths and in flanged or non-flanged varieties.

UL (UL 263) and ARL approved for use in L-587 floor/ceiling and P-556 roof/ceiling assemblies, similar in construction to L-521/L-546; L-550/L-562 floor/ceiling assemblies and P-522; P-531/P-538 roof/ceiling assemblies.

The CRD Assembly installed with a vertical hinge is recommended for optimal airflow.
Model 50 CRD with box (UL 555C) is available in flanged or non-flanged varieties.

UL (UL 263) and ARL approved for use in L-587 floor/ceiling and P-556 roof/ceiling assemblies, similar in construction to L-521/L-546; L-550/L-562 floor/ceiling assemblies and P-522; P-531/P-538 roof/ceiling assemblies.
58 series

For Duct Opening

UL Classified (UL 263) - For use in wood truss floor/ceiling assemblies rated 1 hour or less

Approved UL L-587, L-528, and P-556 designs, equivalent to other designs: L-521, 546, 550, 562, 563 and P-544

Incorporates UL 555C evaluated ceiling damper

22 Ga CRD frame and blades

Field installed 1½” R-6 and 2” R-8 Ductboard not included (58EAD)

Factory installed 1½” R-6 and 2” R-8 Ductboard included (58DD)

Standard fusible link - 165° (or with optional 212°)

Ceramic thermal blanket provided on units with CRD areas greater than 80 square inches

Available in range of sizes from 4” x 8” x 14”h to 20” x 16” x 16”h
UL Classified (UL 263) - For use in wood truss floor/ceiling assemblies rated 1 hour or less

Approved UL L-587, L-528, and P-556 designs, equivalent to other designs: L-521, 546, 550, 562, 563 and P-544

Incorporates UL 555C evaluated ceiling damper

22 Ga CRD frame and blades

Field installed 1½" R-6 and 2" R-8 Ductboard not included (58EAR)

Factory installed 1½" R-6 and 2" R-8 Ductboard included (58DR)

Standard fusible link - 165° (or with optional 212°)

Ceramic thermal blanket provided on units with CRD areas greater than 80 square inches

Available in range of sizes from 4” x 8” to 20” x 16”
For Round Inlet

**UL Classified (UL 263)** - For use in wood truss floor/ceiling assemblies rated 1 hour or less

Approved UL **L-587, L-528, and P-556** designs, equivalent to other designs: L-521, 546, 550, 562, 563 and P-544

Incorporates UL 555C evaluated ceiling damper For use in duct drop applications with round inlet

22 Ga CRD frame and blades

Field installed 1½” R-6 and 2” R-8 **Ductboard not included** (58EAC)

Factory installed 1½” R-6 and 2” R-8 **Ductboard included** (58DC)

Standard fusible link - 165° (or with optional 212°)

Ceramic thermal blanket provided on units with CRD areas greater than 80 square inches

Available in range of sizes from 6” diameter to 16” diameter
### Combination Fire & Smoke Dampers

**Information required for Combination Fire & Smoke dampers:**

1. What leakage class is required?
   - [ ] Class I Ultra-Low Leakage
   - [ ] Class II Low Leakage
   - [ ] Class III Leakage

2. What is the rating of the partition?
   - [ ] 1½ Hours
   - [ ] 3 Hours

3. What temperature rating do you require?
   - [ ] 250°F
   - [ ] 350°F

4. What are the duct dimensions? \( W \_\_\_ \times H \_\_\_ \)
   
   *Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.*

5. Does the damper require a transition?
   - [ ] Round
   - [ ] Oval
   - [ ] Rectangular
   - [ ] None

6. Will the damper also be used as a volume control damper?
   - [ ] Yes (Modulating Actuator)
   - [ ] No (2 Position Actuator)

7. What voltage actuator is required?
   - [ ] 24 Volt
   - [ ] 120 Volt
   - [ ] 220 Volt

8. Where is the actuator to be mounted?
   - [ ] External (Outside damper; out of the airstream)
   - [ ] Internal (Inside damper; in the airstream)

9. Do you require an end switch?
   - [ ] Yes
   - [ ] No

10. What sleeve length is required?
    - [ ] 17"
    - [ ] 20"
    - [ ] 24"

11. At what temperature does the damper need to close?
    - [ ] 165°F
    - [ ] 212°F

12. Is a specific actuator brand required?
    - [ ] Yes, Siemens
    - [ ] Yes, Belimo
    - [ ] No
10 series

CLASS I

CLASS II

CLASS III

UL Classified (UL 555 & 555S) - 1½ hour rating

Available in:
- Class I Ultra-Low Leakage
- Class II Low Leakage
- Class III Leakage

Vertical and Horizontal installations

250°F or 350°F temperature ratings

4" W.G. - maximum static pressure
2,000 FPM - maximum velocity

Blades:
- 16 GA galvanized 3 “V” formed for added rigidity
- Parallel blade operation

Options:
- Transition: Rectangle, Round Oval, and Specials
- Actuator Types: Electrical
- Actuator Mounting: External and Internal

Double yoke kneelock for increased stability

Available in single-section sizes to 36” x 36”

This product meets the requirements for fire/smoke dampers established by:

UL Standards 555 & 555S
NFPA Standard 90A
ICC Building Codes
Combination Fire & Smoke Damper

3 hour

UL Classified (UL 555 & 555S) - 3 hour rating

Available in:
- Class I Ultra-Low Leakage
- Class II Low Leakage
- Class III Leakage

Vertical and Horizontal installations

250 °F or 350 °F temperature ratings

4" W.G. - maximum static pressure
2,000 FPM - maximum velocity

 Blades:
- 16 GA galvanized 3 “V” formed for added rigidity
- Parallel blade operation

Options:
- Transition: Rectangle, Round Oval, and Specials
- Actuator Types: Electrical
- Actuator Mounting: External and Internal

Double yoke kneelock for increased stability

Available in single-section sizes to 36" x 36”

This product meets the requirements for fire/smoke dampers established by:

UL Standards 555 & 555S
NFPA Standard 90A
ICC Building Codes
### Information required for Smoke dampers:

1. **What leakage class is required?**
   - [ ] Class I Ultra-Low Leakage
   - [ ] Class II Low Leakage
   - [ ] Class III Leakage

2. **What temperature rating do you require?**
   - [ ] 250°F
   - [ ] 350°F

3. **What are the dimensions of the damper, width x height?**
   
   W____ X H____
   
   *Always indicate the width first even if shorter than the height. The width dimension will dictate the length of the blades.
   
   *The number of blades increases with damper height.*

4. **Does the damper require a transition?**
   - [ ] Round
   - [ ] Oval
   - [ ] Rectangular
   - [ ] None

5. **Will the damper also be used as a volume control damper?**
   - [ ] Yes (Modulating Actuator)
   - [ ] No (2 Position Actuator)

6. **What voltage actuator is required?**
   - [ ] 24 Volt
   - [ ] 120 Volt
   - [ ] 220 Volt

7. **Where is the actuator to be mounted?**
   - [ ] External (Outside damper; out of the airstream)
   - [ ] Internal (Inside damper; in the airstream)

8. **Do you require an end switch?**
   - [ ] Yes
   - [ ] No

9. **Is a specific actuator brand required?**
   - [ ] Yes, Siemens
   - [ ] Yes, Belimo
   - [ ] No
Smoke Damper

UL Classified (555S)

Available in:
- Class I Ultra-Low Leakage
- Class II Low Leakage
- Class III Leakage

Vertical and Horizontal installations

250 °F or 350 °F temperature ratings

Parallel blade operation

4” W.G. - maximum static pressure
2,000 FPM - maximum velocity

Available in single-section sizes to 36” x 36”
Available in multi-section sizes to 288” x 36”

This product meets the requirements for smoke dampers established by:

UL Standard 555S
NFPA Standard 90A
ICC Building Codes
<table>
<thead>
<tr>
<th>Question</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Do you require a low leakage damper?</td>
<td>□ Yes</td>
</tr>
<tr>
<td></td>
<td>□ No</td>
</tr>
<tr>
<td>2. What are the dimensions of the damper, width x height?</td>
<td>W____ X H____</td>
</tr>
<tr>
<td></td>
<td>*The number of blades increases with damper height.</td>
</tr>
<tr>
<td>3. What type of blade assembly is required?</td>
<td>□ Opposed Blade</td>
</tr>
<tr>
<td></td>
<td>□ Parallel Blade</td>
</tr>
<tr>
<td>4. Bearing material?</td>
<td>□ Non-metallic Celcon® (Standard)</td>
</tr>
<tr>
<td></td>
<td>□ Bronze</td>
</tr>
<tr>
<td>5. What size shaft extension is required?</td>
<td>□ 3“</td>
</tr>
<tr>
<td></td>
<td>□ 6“</td>
</tr>
<tr>
<td></td>
<td>□ 11”</td>
</tr>
<tr>
<td>6. What voltage actuator is required?</td>
<td>□ None, Manual</td>
</tr>
<tr>
<td></td>
<td>□ 24v</td>
</tr>
<tr>
<td></td>
<td>□ 120v</td>
</tr>
<tr>
<td></td>
<td>□ 240v</td>
</tr>
<tr>
<td>7. Do you require an End Switch?</td>
<td></td>
</tr>
<tr>
<td>8. Z position or Modulating Actuator?</td>
<td></td>
</tr>
</tbody>
</table>
Air Control Damper

80 series

**Standard Construction:**
- **Frame:** 16 Ga galvanized steel, 5” x ⅞” channel frame construction with die-formed corner gussets
- **Blades:** 16 Ga galvanized 3” V formed parallel or opposed closure action
- **Bearings:** Sintered bronze, oil impregnated
- **Axles:** ½” square zinc plated steel
- **Linkage:** Zinc plated steel concealed in the channel frame
- **Finish:** Mill galvanized (optional stainless steel)

**Optional Components:**
- **Extended Shafts:**
  - 3” (80 Model)
  - 6” (81 Model)
  - 11” (82 Model)

**Actuator:**
Shipped loose and field installed

Available in single-section sizes from 8” x 8” to 60” x 60”
Accessory Items

MEETS ASHRAE, SMACNA, & UMC STANDARDS

Retaining angles are 14 and 16 gauge, 1½" x 1½" galvanized steel, and are supplied in cut-to-length sets of 8 pieces for each damper size.

Pre-punched 7/32" holes for faster fastening of angle to sleeve.

SMACNA E Class rigidity (may be used for duct reinforcement).

Typical installation details:

(A) Retaining Angles:
Minimum 1½" x 1½" x 0.058" (16 Ga.). Retaining angles must overlap structural opening 1" minimum and cover corners of openings

(B) Damper Expansion Clearance:
¼" per linear foot both dimensions

(C) Steel Sleeve:

(D) Approved Fire Damper:
Curtain or Blade type

(E) Secure Retaining Angle to Sleeve only, on 8" centers with:
1. ½" long welds, or
2. ¼" bolts and nuts, or
3. No. 10 Screws, or

(F) Secure Damper to Sleeve on 6" centers with:
1. ½" long welds, or
2. ¼" bolts and nuts, or
3. No. 10 Steel Screws, or
Accessory Items

SLEEVES

Standard sleeve offered as 22 Ga 12” length with optional lengths of 4”, 8”, 17”, 20” and 24”.
Accessory Items

The Ceramic Fiber Thermal Blanket material which is found installed in CRDs with areas greater than 80 square inches can be ordered separately in 24” x 24” and 28” x 28” squares.
Accessory Items

Fusible Links are supplied in long, short, or no hook varieties according to the respective damper application and are available in 165° and 212° temperatures in packages of 10 pieces or cartons of 100 pieces.

- Type A dampers (Short Hook)
- Type B dampers (Long Hook)
- Type C dampers (Short Hook)
- CRD’s (No Hook)
For rectangular or round duct, these doors are provided insulated or uninsulated. For high temperature applications, duct cleaning, or viewing ultraviolet lights in air handling units - these doors are extremely versatile.

Designed for high pressure application (up to 20” w.g.)

Quick and Easy
Access Doors

Square Framed Access Doors provide easy access into air ducts and units. These doors were developed as an inexpensive alternative to low pressure applications.

Designed for low pressure applications (2” w.g. or less).

Insulated

Double gasketed

Meets SMACNA requirements for low pressure doors

Dovetail frames are available for metal ductwork, 1” ductboard, or 1 ½” ductboard

Press-on frames are available for metal ductwork only

Variety of sizes available

Available in specialty metals
Tomorrow’s Solutions Shipped Today

Aire Technologies, Inc. specializes in rapid manufacture and delivery of HVAC fire protection products. Our fire dampers and ceiling radiation dampers (CRD) serve a dual purpose. Their design slows the spread of fire and allows additional time for the occupants of a burning building to escape. Local and national codes and regulations such as NFPA and SMACNA mandate installation of specified fire protection products. Every Aire Technologies product is UL classified.

Visit Aire Technologies Online @ http://qrs.ly/t23h9wi

1.866.421.AIRE
Static Fire Damper

1½ hour series

UL Classified (UL 555) - 1½ hour rating, static for use in installations rated 2 hours or less

Standard profile (4¼") 22 Ga 1 piece rollformed frame

Type A Damper
Blades in air-stream

Type B Damper
Blades out of air-stream

Type C Damper
Blades and frame out of air-stream, 100% free area

Available for vertical or horizontal installations
(Type C available with round, oval, or rectangular collar)

Standard fusible link - 165° (or with optional 212°)

Available in galvanized and stainless steel.

Type A and B available in single-section sizes from 4"x3" to 60"x53", multi-section sizes to 120"x53"

Type C available in single-section sizes from 4" to 52"
Oval and Rectangular collars from 4"x4" to 58"x52"