SCD-FR SQUARE CONE DIFFUSER FIRE RATED ASSEMBLY

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228791 OR FOR PANEL SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/03/31

SPEC. SYMBOL:

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SCDA-FR SQUARE CONE DIFFUSER FIRE RATED ASSEMBLY

CM = CEILING MODULE
D = NOMINAL DUCT
D - 1/8" (3)
FUSELINK (NON-ADJUSTABLE)
MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER

OPTIONAL 4TH CONE 24 X 24 UNITS ONLY

IMPERIAL UNITS (inches)

<table>
<thead>
<tr>
<th>CM</th>
<th>B (MAX)</th>
<th>C (MAX)</th>
<th>H (MAX)</th>
<th>DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>24x24</td>
<td>3&quot;½</td>
<td>½&quot;</td>
<td>7½&quot;½</td>
<td>6, 8, 10, 12, 14, 15&quot;½</td>
</tr>
<tr>
<td>20x20</td>
<td>2&quot;½</td>
<td>2½&quot;</td>
<td>8½&quot;½</td>
<td>6&quot;, 8&quot;, 10&quot;</td>
</tr>
<tr>
<td>12x12</td>
<td>1¾&quot;</td>
<td>1½&quot;</td>
<td>5½&quot;</td>
<td>5&quot;, 6&quot;, 7&quot;, 8&quot;</td>
</tr>
</tbody>
</table>

SI UNITS (mm)

<table>
<thead>
<tr>
<th>CM</th>
<th>B (MAX)</th>
<th>C (MAX)</th>
<th>H (MAX)</th>
<th>DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>600x600</td>
<td>95</td>
<td>3</td>
<td>198</td>
<td>152, 203, 254, 305, 356, 381&quot;</td>
</tr>
<tr>
<td>500x500</td>
<td>73</td>
<td>2½&quot;</td>
<td>176</td>
<td>152&quot;, 203&quot;, 254&quot;</td>
</tr>
<tr>
<td>300x300</td>
<td>44</td>
<td>1½&quot;</td>
<td>149</td>
<td>127, 152, 178, 203&quot;</td>
</tr>
</tbody>
</table>

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

NOTE:
- SECONDARY PATTERN CONTROLLERS WILL BE SUPPLIED ON UNITS INDICATED WITH ( )
- B, C & H DIMENSIONS VARY DEPENDING ON NECK SIZE
- FIRE RATED 3 HOUR
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DUCT: STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228791 OR FOR PANEL SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

ROUND NECK

<table>
<thead>
<tr>
<th>NOM. DUCT</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 (127)</td>
<td>½ (13)</td>
</tr>
<tr>
<td>6 (152)</td>
<td>1 (25)</td>
</tr>
<tr>
<td>7 (178)</td>
<td>1½ (51)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>2 (51)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>3 (76)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>4 (102)</td>
</tr>
<tr>
<td>14 (356)</td>
<td>5 (127)</td>
</tr>
<tr>
<td>15 (381)</td>
<td>5½ (140)</td>
</tr>
</tbody>
</table>

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/03/31

SPEC. SYMBOL: 228720

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**SPD-FR SQUARE PLACCA DIFFUSER FIRE RATED ASSEMBLY**

**IMPERIAL UNITS (inches)**

<table>
<thead>
<tr>
<th>CM</th>
<th>B</th>
<th>H</th>
<th>DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>24x24</td>
<td>2 1/2</td>
<td>6 1/8</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
</tr>
<tr>
<td>20x20</td>
<td>2 1/2</td>
<td>6 1/8</td>
<td>6,8,10 (152,203,254)</td>
</tr>
<tr>
<td>12x12</td>
<td>1 1/8</td>
<td>5 1/8</td>
<td>5,6,7,8 (127,152,178,203)</td>
</tr>
</tbody>
</table>

**SI UNITS (mm)**

<table>
<thead>
<tr>
<th>CM</th>
<th>B</th>
<th>H</th>
<th>DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>600x600</td>
<td>64</td>
<td>167</td>
<td>152,203,254,305,356,381</td>
</tr>
<tr>
<td>500x500</td>
<td>64</td>
<td>167</td>
<td>152,203,254</td>
</tr>
<tr>
<td>300x300</td>
<td>29</td>
<td>132</td>
<td>127,152,178,203</td>
</tr>
</tbody>
</table>

**MATERIAL:**
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER:
  - GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

**FINISH:**
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

**OPTION:**
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSE LINK

**NOTE:**
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER LISTED IN UNDERWRITERS LIST OF EQUIPMENT AND MATERIALS.
- DUCT: STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228791 OR FOR PANEL SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:** 2015/03/31
PDN-FR PERFORATED DIFFUSER, FIRE RATED ASSEMBLY

Thermal Blanket
Note: Pan height is 1/16"(3) for all modular sizes except 24"x24" (610x610)

Overall = Cm-1/4"(6)
Ceiling Module

Hinged Face

Fuse Links and Optional Adjustable Volume Controller

<table>
<thead>
<tr>
<th>Ceiling Module (cm)</th>
<th>D SQUARE DUCT</th>
<th>D ROUND DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12x12 (305x305)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>20x20 (508x508)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>24x24 (610x610)</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>300x300</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>500x500</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>600x600</td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

Material:
- Steel construction
- Ceiling Radiation Damper: Butterfly Type
- Thermal Blanket: Non Asbestos

Finish:
- B12 White
  (Optional finishes available)

Option:
- Adjustable Volume Controller (Allen Key Adjustable)
- 165°F (74°C) Fuse Link (Standard)
- 212°F (100°C) Fuse Link

Note:
- Fire rated 3 hour.
- Deflectors are factory supplied in a 4-way pattern setting.
- Other pattern settings can be achieved by rotating deflectors.
- Duct: Steel or flexible duct connections as per fire rated design requirements.
- Installation instructions:
  SEE SUBMITTAL 228791
- Fire rated diffusers are to be installed in fire rated T-bar applications only.

All metric dimensions ( ) are soft converted. imperial dimensions are converted to metric and rounded to the nearest millimeter.

Project:

Engineer:

Customer:

Submittal Date: SPEC. SYMBOL: 2015/03/31

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REV C
PDNE-FR PERFORATED DIFFUSER, EXTENDED FACE, FIRE RATED ASSEMBLY

NOTE: PAN HEIGHT IS 17½" (37) FOR ALL MODULAR SIZES EXCEPT 24" x 24" (610 x 610)

MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER

FUSELINK (NON-ADJUSTABLE)

THERMAL BLANKET

HINGED FACE

OVERALL = CM-⅛" (6)

CEILING MODULE

FUSIBLE LINKS WITH OPTIONAL
ADJUSTABLE VOLUME CONTROLLER

D=Nominal Duct
Nom. Duct = ⅛" (3)

ROUND NECK

<table>
<thead>
<tr>
<th>NOM. DUCT</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 (152)</td>
<td>1  (25)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>2  (51)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>3  (76)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>4  (102)</td>
</tr>
<tr>
<td>14 (356)</td>
<td>5  (127)</td>
</tr>
<tr>
<td>15 (381)</td>
<td>5½ (140)</td>
</tr>
</tbody>
</table>

SQUARE NECK

<table>
<thead>
<tr>
<th>NOM. DUCT</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 X 6 (152 X 152)</td>
<td>2</td>
</tr>
<tr>
<td>8 X 8 (203 X 203)</td>
<td>3</td>
</tr>
<tr>
<td>10 X 10 (254 X 254)</td>
<td>4</td>
</tr>
<tr>
<td>12 X 12 (305 X 305)</td>
<td>5</td>
</tr>
<tr>
<td>14 X 14 (356 X 356)</td>
<td>6</td>
</tr>
<tr>
<td>15 X 15 (381 X 381)</td>
<td>6½</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CEILING MODULE (CM)</th>
<th>15 X 381</th>
<th>15 X 381</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 X 12 (305 X 305)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>14 X 14 (356 X 356)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>15 X 15 (381 X 381)</td>
<td>6½</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPE LIAL</th>
<th>12 X 12 (305 X 305)</th>
<th>14 X 14 (356 X 356)</th>
<th>15 X 15 (381 X 381)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 X 12 (305 X 305)</td>
<td>5</td>
<td>6</td>
<td>6½</td>
</tr>
<tr>
<td>14 X 14 (356 X 356)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 X 15 (381 X 381)</td>
<td>6½</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPE LIAL</th>
<th>12 X 12 (305 X 305)</th>
<th>14 X 14 (356 X 356)</th>
<th>15 X 15 (381 X 381)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 X 12 (305 X 305)</td>
<td>5</td>
<td>6</td>
<td>6½</td>
</tr>
<tr>
<td>14 X 14 (356 X 356)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15 X 15 (381 X 381)</td>
<td>6½</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- 312 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSELIC LINK (STANDARD)
- 212°F (100°C) FUSELIC LINK

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- ULC CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DEFLECTORS ARE FACTORY SUPPLIED IN A 4 WAY PATTERN SETTING.
- OTHER PATTERN SETTING CAN BE ACHIEVED BY ROTATING DEFLECTORS.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS:
  SEE SUBMITTAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED, IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 228/23

SPEC. SYMBOL: 2015/03/31

PDNE-FR EXTENDED FACE PERFORATED DIFFUSER WITH NECK DEFLECTORS FIRE RATED
PDF-FR PERFORATED DIFFUSER, FACE DEFLECTORS, FIRE RATED ASSEMBLY

THERMAL BLANKET
NOTE: PAN HEIGHT IS 1/8"(3) FOR ALL MODULAR SIZES EXCEPT 24"x24" (610x610)

HINGED FACE

FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- 812 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

NOTE:
- FIRE RATED 3 HOUR
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- ULC CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS LABORATORIES OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DEFLECTORS ARE FACTORY SUPPLIED IN A 4 WAY PATTERN SETTING.
- OTHER PATTERN SETTINGS CAN BE ACHIEVED BY ROTATING DEFLECTORS.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: SEE SUBMITTAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED, IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/03/31

SPEC. SYMBOL: PDF-FR

PERFORATED DIFFUSER WITH FACE DEFLECTORS
FIRE RATED

REV C
**PDFE-FR PERFORATED DIFFUSER, EXTENDED FACE, FIRE RATED ASSEMBLY**

**NOTE:** PAN HEIGHT IS 13/8"(37)
FOR ALL MODULAR SIZES
EXCEPT 24"x24" (610x610)

**HISTORICAL DATA:**
- **CEILING MODULE (CM):**
  - 12x12 (305x305) *
  - 20x20 (508x508) *
  - 24x24 (610x610) *
  - 300x300 *
  - 500x500 *
  - 600x600 *

**FINISH:**
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**OPTION:**
- ADJUSTABLE VOLUME CONTROLLER (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

**MATERIAL:**
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

**NOTE:**
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- ULCLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DEFLECTORS ARE FACTORY SUPPLIED IN A 4 WAY PATTERN SETTING.
- OTHER PATTERN SETTINGS CAN BE ACHIEVED BY ROTATING DEFLECTORS.
- DUCT-STEEL OR FLEXIBLE DUCT CONNECTIONS AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS:
  SEE SUBMITTAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERSIONS. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.**

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

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REV C
**PDC-FR, PERFORATED DIFFUSER, FIRE RATED ASSEMBLY**

**CEILING MODULE** | **ROUND DUCT SIZE** | **SQUARE DUCT SIZE**
---|---|---
12x12 (305x305) | 6 (152) | 6x6 (152x152)
24x24 (610x610) | 6,8,10,12,14,15 (152,203,254,305,356,381) | 6x6,6x8,10x10,12x12,14x14,15x15,16x16,18x18 (152x152,203x203,254x254,305x305,356x356,381x381,406x406,457x457)

**MATERIAL:**
- Steel construction
- Ceiling radiation damper: butterfly type
- Thermal blanket: non-asbestos

**FINISH:**
- B12 white (optional finishes available)

**OPTION:**
- Adjustable volume controller (Allen key adjustable)
- 162°F (74°C) fusible link (standard)
- 212°F (100°C) fusible link

**NOTE:**
- Fire rated 3 hour.
- UL classified fire rated ceiling diffuser assembly, listed in Underwriters Laboratories Fire Resistance Directory.
- UL classified fire rated ceiling diffuser assembly, listed in Underwriters of Canada Laboratories list of equipment and materials.
- 1, 2, 2G, 3 & 4-way air patterns have individually adjustable blades.
- Curved blades are located at the inlet neck and are field adjustable from horizontal to vertical air pattern.
- Duct: steel or flexible duct connections as per fire rated design requirements.
- Installation Instructions: see submittal 228791.
- Fire rated diffusers are to be installed in fire rated 1-bar applications only.

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

228726

2015/03/31

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REV C
PDCE-FR, PERFORATED DIFFUSER, FIRE RATED ASSEMBLY

NOTE: PANE HEIGHT IS 17/8" (37) FOR 12"X12" (305X305) NOMINAL SIZE.

HINGED FACE
OVERALL = CM-14" (6) CEILING MODULE

AVAILABLE AIR PATTERNS

1-WAY
2-WAY
2-WAY CORNER
3-WAY
4-WAY

CEILING MODULE  ROUND DUCT SIZE  SQUARE DUCT SIZE
12x12  (305x305)  6 (152)  6x6  (152x152)
24x24  (610x610)  6,8,10,12,14,15  (152,203,254,305,356,381)  6x6,8,10,12,14,16,18,20  (152x152,203x203,254x254,305x305,356x356,381x381,406x406,457x457)

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE.
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER (ALLEN KEY ADJUSTABLE)
- 169°F (76°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- 1, 2, 2C, 3 & 4-WAY AIR PATTERNS HAVE INDIVIDUALLY ADJUSTABLE BLADES.
- CURVED BLADES ARE LOCATED AT THE INLET NECK AND ARE FIELDBUILDABLE FROM HORIZONTAL TO VERTICAL AIR PATTERN.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: SEE SUBMITTAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
PDDR-FR PERFORATED DIFFUSER, DUCTED RETURN, FIRE RATED ASSEMBLY

D = NOMINAL DUCT

THermal BLANKET

NOTE: PAN HEIGHT IS 1 1/4"(37)
FOR ALL MODULAR SIZES EXCEPT
24"x24" (610x610).

HINGED FACE
CEILING MODULE

FUSIBLE LINKS WITH OPTIONAL
ADJUSTABLE VOLUME CONTROLLER

<table>
<thead>
<tr>
<th>D SQUARE DUCT</th>
<th>D ROUND DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DUCT</td>
<td>DUCT</td>
</tr>
<tr>
<td>6 (152)</td>
<td>6 X 6 (152 x 152)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>8 X 8 (203 x 203)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>10 X 10 (254 x 254)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>12 X 12 (305 x 305)</td>
</tr>
<tr>
<td>14 (356)</td>
<td>14 X 14 (356 x 356)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ROUND NECK</th>
<th>SQUARE NECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM. DUCT</td>
<td>NOM. DUCT</td>
</tr>
<tr>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td>6 (152)</td>
<td>6 X 6 (152 x 152)</td>
</tr>
<tr>
<td>8 (203)</td>
<td>8 X 8 (203 x 203)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>10 X 10 (254 x 254)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>12 X 12 (305 x 305)</td>
</tr>
<tr>
<td>14 (356)</td>
<td>14 X 14 (356 x 356)</td>
</tr>
</tbody>
</table>

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- 812 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN
  UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN
  UNDERWRITERS OF CANADA LABORATORIES
  LIST OF EQUIPMENT AND MATERIALS.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS.
  AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS:
  SEE SUBMITAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN
  FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 220728
SPEC. SYMBOL: 2015/03/31

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REV C
PDDRE-FR PERFORATED DIFFUSER, DUCTED RETURN, FIRE RATED ASSEMBLY

NOTE: PAN HEIGHT IS 1 3/8"(37)
FOR ALL MODULAR SIZES
EXCEPT 24"X24" (610X610)

H = NOMINAL DUCT
NOM. DUCT = 3/8"(3)
FUSELINK
NON-ADJUSTABLE

MAX. OPEN POSITION DAMPER BLADES
WITH OPTIONAL VOLUME CONTROLLER

HINGED FACE
OVERALL = CM = 1/4"(6)
CEILING MODULE

FUSIBLE LINKS WITH OPTIONAL
ADJUSTABLE VOLUME CONTROLLER

<table>
<thead>
<tr>
<th>D SQUARE DUCT</th>
<th>D ROUND DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ceiling Module</td>
<td></td>
</tr>
<tr>
<td>(CM)</td>
<td></td>
</tr>
<tr>
<td>□ 6x6</td>
<td>□ 6&quot;(152)</td>
</tr>
<tr>
<td>□ 8x8</td>
<td>□ 8 (203)</td>
</tr>
<tr>
<td>□ 10x10</td>
<td>□ 10&quot;(254)</td>
</tr>
<tr>
<td>□ 12x12</td>
<td>□ 12 (305)</td>
</tr>
<tr>
<td>□ 14x14</td>
<td>□ 14&quot;(356)</td>
</tr>
<tr>
<td>□ 16x16</td>
<td>□ 16&quot;(381)</td>
</tr>
</tbody>
</table>

| ROUND NECK        | SQUARE NECK       |
| Nom. Duct         | Nom. Duct         |
| H                 | H                 |
| 6 (152)           | 6 X 6             |
| 8 (203)           | 8 X 8             |
| 10 (254)          | 10 X 10           |
| 12 (305)          | 12 X 12           |
| 14 (356)          | 14 X 14           |
| 16 (381)          | 16 X 16           |

Material:
- Steel construction
- Ceiling radiation damper: butterfly type
- Thermal blanket: non-asbestos

Finish:
- B12 white
  (optional finishes available)

Option:
- Adjustable volume controller
  (Allen key adjustable)
- 165°F (74°C) fusible link (standard)
- 212°F (100°C) fusible link

NOTE:
- Fire rated 3 hour.
- UL classified fire rated ceiling diffuser assembly. Listed in Underwriters Laboratories fire resistance directory.
- ULC classified fire rated ceiling diffuser assembly. Listed in underwriters of Canada laboratories list of equipment and materials.
- Duct: Steel or flexible duct connections as per fire rated design requirements.
- Installation instructions:
  See submittal 228791
- Fire rated diffusers are to be installed in fire rated T-bar applications only.

All metric dimensions ( ) are soft converted. imperial dimensions are converted to metric and rounded to the nearest millimeter.

Project:

Engineer:

Customer:

Submittal Date: 2015/03/31

Spec. Symbol: PDDRE-FR

Perforated diffuser ducted return extended face fire rated
PDDR-FR PLENUM RETURN PERFORATED FIRE RATED DIFFUSER ASSEMBLY

**Nom. Duct Size**

- **Fuselink** (Non-Adjustable)
- **Max. Open Position Damper Blades with Optional Volume Controller**
- **Fusible Links with Optional Adjustable Volume Controller**

**Ceiling Module (CM)**

<table>
<thead>
<tr>
<th>Module</th>
<th>Nom. Duct Size (SQUARE)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12x12</td>
<td>(305x305)</td>
</tr>
<tr>
<td>24x12</td>
<td>(610x305)</td>
</tr>
<tr>
<td>16x16</td>
<td>(406x406)</td>
</tr>
<tr>
<td>20x20</td>
<td>(508x508)</td>
</tr>
<tr>
<td>24x24</td>
<td>(610x610)</td>
</tr>
<tr>
<td></td>
<td>300 x 300</td>
</tr>
<tr>
<td></td>
<td>600 x 300</td>
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<td></td>
<td>400 x 400</td>
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<tr>
<td></td>
<td>500 x 500</td>
</tr>
<tr>
<td></td>
<td>600 x 600</td>
</tr>
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</table>

**Square Neck**

<table>
<thead>
<tr>
<th>Nom. Duct</th>
<th>H</th>
<th>Square</th>
</tr>
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<tbody>
<tr>
<td>10 x 10</td>
<td>4</td>
<td>(254 x 254)</td>
</tr>
<tr>
<td>14 x 14</td>
<td>6</td>
<td>(356 x 356)</td>
</tr>
<tr>
<td>18 x 18</td>
<td>8</td>
<td>(547 x 547)</td>
</tr>
<tr>
<td>22 x 10</td>
<td>4</td>
<td>(559 x 254)</td>
</tr>
<tr>
<td>22 x 22</td>
<td>10</td>
<td>(559 x 559)</td>
</tr>
</tbody>
</table>

**Note:**

- Fire rated 3 hour.
- UL classified fire rated ceiling diffuser assembly, listed in Underwriters Laboratories Fire Resistance Directory.
- UL classified fire rated ceiling diffuser assembly, listed in Underwriters of Canada Laboratories list of equipment and materials.
- Duct: steel or flexible duct connections as per fire rated design requirements.
- Installation instructions: see submittal 228791.
- Fire rated diffusers are to be installed in fire rated t-bar applications only.

**Finish:**

- B12 White

- Optional finishes available.

**Material:**

- PDDR – Steel construction

**Options:**

- Adjustable Volume Controller (Allen Key Adjustable)
- 165°F (74°C) Fusible Link (Standard)
- 212°F (100°C) Fusible Link

**Project:**

- PDDR-FR
- PLENUM RETURN
- PERF. FACE DIFFUSER
- MAXIMUM SQUARE NECK

**Spec. Symbol:**

- 236757

**Submittal Date:**

- 2015/03/31

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PDDRE-FR PLENUM RETURN PERFORATED EXTENDED FACE FIRE RATED DIFFUSER ASSEMBLY

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- ULC CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY. LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: SEE SUBMITTAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/03/31

SPEC. SYMBOL: PDDRE-FR
# PDMC-FR PERFORATED DIFFUSER MODULAR CORE FIRE RATED ASSEMBLY

## Diagram

- **Thermal Blanket:** Non-Adjustable
- **Fuselink:** (Non-Adjustable) with optional position damper blades
- **Field Rotatable Modular Cores:** Available air patterns
- **Ceiling Module:** Overall = CM-1/4" (6)
- **Fusible Links:** With optional adjustable volume controller
- **MAX. Open Position Damper Blades:** With optional volume controller

## Dimensions

<table>
<thead>
<tr>
<th>Ceiling Module</th>
<th>Round Duct Size</th>
<th>Square Duct Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 12 (305 x 305)</td>
<td>6 (152)</td>
<td>6 x 6 (152 x 152)</td>
</tr>
<tr>
<td>24 x 24 (610 x 610)</td>
<td>6, 8, 10, 12, 14, 15 (152, 203, 254, 305, 356, 381)</td>
<td>6 x 6, 8 x 8, 10 x 10, 12 x 12, 14 x 14, 15 x 15, 16 x 16, 18 x 18 (152 x 152, 203 x 203, 254 x 254, 305 x 305, 356 x 356, 381 x 381, 406 x 406, 457 x 457)</td>
</tr>
</tbody>
</table>

## Materials

- Steel Construction
- Ceiling Radiation Damper: Butterfly Type
- Thermal Blanket: Non-Asbestos

## Finishes

- B12 White
  - (Optional finishes available)

## Options

- Adjustable Volume Controller
  - (Allen Key Adjustable)
- 165°F (74°C) Fusible Link (Standard)
- 212°F (100°C) Fusible Link

## Notes

- Fire Rated 3 Hour.
- 4 Field Rotatable Modular Cores Allow 1, 2, 2G, 3 & 4-WAY Air Patterns.
- Core Modules are Factory Preset to a 4-WAY Air Deflection Pattern.
- Duct: Steel or Flexible Duct Connections as per Fire Rated Design Requirements.
- Installation Instructions:
  - See Submittal 228791
  - Fire Rated Diffusers are to be installed in Fire Rated T-Bar applications only.

## Specifications

- **Project:**
- **Engineer:**
- **Customer:**
- **Submittal Date:** 2015/03/31
- **Spec. Symbol:**

## All Metric Dimensions ( ) are soft converted. Imperial Dimensions are converted to Metric and rounded to the nearest millimeter.
### PDSP-FR STAR PATTERN PERFORATED DIFFUSER FIRE RATED

**NOTE:**
- PAN HEIGHT IS 1 1/4" (37) FOR 12"x12" (305x305) NOMINAL SIZE FUSELINK
- THERMAL BLANKET: NON-ADJUSTABLE
- FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

**MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER**

<table>
<thead>
<tr>
<th>3P T-BAR PANEL</th>
</tr>
</thead>
</table>

**CEILING MODULE**

<table>
<thead>
<tr>
<th>T-BAR LAY-IN DIFFUSER</th>
<th>3P T-BAR LAY-IN PANEL OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ROUND DUCT SIZE</strong></td>
<td><strong>SQUARE DUCT SIZE</strong></td>
</tr>
<tr>
<td>12&quot;x12&quot; (305x305)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>24&quot;x24&quot; (610x610)</td>
<td>6, 8, 10, 12, 14, 15 (152,203,254,305,356,381)</td>
</tr>
</tbody>
</table>

**MATERIAL:**
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

**FINISH:**
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**PATTERN:**
- SIDE THROW (4)
- DIAGONAL THROW (4D)

**NOTE:**
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DEFLECTORS HELD IN PLACE WITH 4 SCREWS.
- CURVED BLADES OF 4-WAY CORE PATTERN ARE LOCATED AT THE INLET NECK AND ARE FIELD ADJUSTABLE FROM HORIZONTAL TO VERTICAL AIR PATTERN BY TURNING BLADES.
- A FIELD ADJUSTED 3-WAY PATTERN IS POSSIBLE, BY TURNING ONE SEGMENT OF BLADES IN THE OPPOSITE DIRECTION.
- DUCT: STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228791 OR FOR PANEL SEE SUBMITAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**OPTIONS:**
- ADJUSTABLE VOLUME CONTROLLER (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

**PROJECT:**

<table>
<thead>
<tr>
<th>ENGINEER:</th>
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</thead>
<tbody>
<tr>
<td>M</td>
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<table>
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<tr>
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<td>233665</td>
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</tbody>
</table>

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**PDSPE-FR STAR PATTERN PERFORATED DIFFUSER FIRE RATED**

**T-BAR LAY-IN DIFFUSER**

<table>
<thead>
<tr>
<th>CEILING MODULE</th>
<th>ROUND DUCT SIZE</th>
<th>SQUARE DUCT SIZE</th>
<th>3P T-BAR LAY-IN PANEL OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>12x12 (305x305)</td>
<td>6 (152)</td>
<td>6x6 (152x152)</td>
<td>NA</td>
</tr>
<tr>
<td>24x24 (610x610)</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
<td>6x6,8x8,10x10,12x12 (152x152,203x203,254x254,305x305)</td>
<td>6 (152)</td>
</tr>
</tbody>
</table>

**MATERIAL:**
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

**FINISH:**
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**PATTERN:**
- SIDE THROW (4)
- DIAGONAL THROW (4)

**NOTE:**
- FIRE RATED 3 HOUR
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY
- UL Classified Fire Rated Ceiling Diffuser Assembly Listed in Underwriters of Canada Laboratories List of Equipment and Materials.
- DEFLECTORS HELD IN PLACE WITH 4 SCREWS.
- CURVED BLADES OF 4-WAY CORE PATTERN ARE LOCATED AT THE INLET NECK AND ARE FIELD ADJUSTABLE FROM HORIZONTAL TO VERTICAL AIR PATTERN BY TURNING BLADES.
- A FIELD ADJUSTED 3-WAY PATTERN IS POSSIBLE, BY TURNING ONE SEGMENT OF BLADES IN THE OPPOSITE DIRECTION.
- DUCT, STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228791 OR FOR PANEL SEE SUBMITAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**OPTIONS:**
- ADJUSTABLE VOLUME CONTROLLER (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:** 2015/03/31

**SPEC. SYMBOL:** PDSPE-FR

**SUBMITTAL SHEET**

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REV 8
SMD-FR MODULAR FIRE RATED DIFFUSER

MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER
FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER
THERMAL BLANKET

NOM. DUCT = 1 1/8" (3)
FUSE LINK (NON-ADJUSTABLE)

OVERALL = NOM. DUCT + 5 3/4" (146)
CEILING MODULE = NOM. DUCT + 6" (152)

1 1/2" (38) TYPICAL SPACING

AVAILABLE DIFFUSER SIZE:

<table>
<thead>
<tr>
<th>CEILING MODULE</th>
<th>BORDER STYLE 36</th>
<th>3P T-BAR LAY-IN PANEL OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SQUARE NECK</td>
<td>ROUND NECK</td>
</tr>
<tr>
<td>12X12 (305x305)</td>
<td>6X6 (152x152)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>24X12 (610x305)</td>
<td>18X6 (457x152)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>24X24 (610x610)</td>
<td>18X18 (457x457)</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
</tr>
</tbody>
</table>

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: GALVANIZED STEEL, BUTTERFLY TYPE.
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- B12 WHITE
  (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER
  (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DIRECTIONAL CORE REMOVABLE AT DIFFUSER FACE
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228792 OR PANELED SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

AVAILABLE CORE STYLES:

1S 1A 1B
2S 2A 2B
3A 3B
4A 4B
2E PLAN VIEW L

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:

SMD-FR
MODULAR DIFFUSER
FIRE RATED

228731

2015/03/31

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REV F
SMDA-FR ADJUSTABLE MODULAR FIRE RATED DIFFUSER

MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER

FUSIBLE LINKS WITH ADJUSTABLE OPTIONAL VOLUME CONTROLLER

THERMAL BLANKET

1 1/2" (38) TYPICAL SPACING

OVERALL = D + 5 3/4" (146)

CEILING MODULE = NOM. DUCT + 6" (152)

AVAILABLE DIFFUSER SIZE

<table>
<thead>
<tr>
<th>CEILING MODULE</th>
<th>BORDER STYLE 36 SQUARE_NECK</th>
<th>3P T-BAR LAY-IN PANEL OPTION SQUARE_NECK</th>
<th>ROUND NECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>12X12 (305X305)</td>
<td>6X6 (152X152)</td>
<td>6 (152)</td>
<td>NA</td>
</tr>
<tr>
<td>24X12 (610X305)</td>
<td>18X6 (457X152)</td>
<td>6 (152)</td>
<td>NA</td>
</tr>
<tr>
<td>24X24 (610X610)</td>
<td>18X18 (457X457)</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
</tr>
</tbody>
</table>

MATERIAL:
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER:
  - GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

FINISH:
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

OPTION:
- ADJUSTABLE VOLUME CONTROLLER (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

NOTE:
- FIRE RATED 3 HOUR.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY, LISTED IN UNDERWRITERS OF CANADA LABORATORIES LIST OF EQUIPMENT AND MATERIALS.
- DIRECTIONAL CORE REMOVABLE AT DIFFUSER FACE.
- DUCT: STEEL OR FLEXIBLE DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228792 OR FOR PANEL SEE SUBMITTAL 233667.
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 228792 2015/03/31

SPEC. SYMBOL: SMDA-FR ADJUSTABLE MODULAR DIFFUSER FIRE RATED

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SMX-FR STEEL MODULAR FIRE RATED DIFFUSER

**AVAILABLE DIFFUSER SIZE**

<table>
<thead>
<tr>
<th>CEILING MODULE</th>
<th>BORDER STYLE</th>
<th>3P T-BAR LAY-IN PANEL OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SQUARE NECK</td>
<td>ROUND NECK</td>
</tr>
<tr>
<td>12X12 (305X305)</td>
<td>6X6 (152X152)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>24X12 (610X305)</td>
<td>18X6 (457X152)</td>
<td>NA</td>
</tr>
<tr>
<td>24X24 (610X610)</td>
<td>18X18 (457X457)</td>
<td>(152,203,254,305,356,381) (152X152,229X229,305X305,381X381)</td>
</tr>
</tbody>
</table>

**AVAILABLE CORE STYLES:**

- SQUARE NECK
- ROUND NECK

- AVAILABLE IN SQUARE ONLY
- AVAILABLE IN RECTANGULAR ONLY

**MATERIAL:**
- ALL STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: GALVANIZED STEEL, BUTTERFLY TYPE
- THERMAL BLANKET: NON ASBESTOS

**FINISH:**
- B12 WHITE (OPTIONAL FINISHES AVAILABLE)

**OPTIONS:**
- ROUNDED CORE CORNERS
- VOLUME ADJUSTMENT CONTROLLER (ALLEN KEY ADJUSTABLE)
- 165°F (74°C) FUSIBLE LINK (STANDARD)
- 212°F (100°C) FUSIBLE LINK

**NOTE:**
- CORES AVAILABLE IN INCREMENTS OF 3" (76) IN BOTH DIRECTIONS.
- FIRE RATED 3 HOUR
- UL CLASSIFIED FIRE RATED CEILING DIFFUSER ASSEMBLY LISTED IN UNDERWRITERS LABORATORIES FIRE RESISTANCE DIRECTORY.
- ULC CLASSIFIED FIRE RATED CEILING DIFFUSER LISTED IN UNDERWRITERS OF CANADA LIST OF EQUIPMENT AND MATERIALS.
- DUCT, STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228792 OR FOR PANEL SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

SPEC. SYMBOL: 2015/03/31

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