SCD-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

THERMAL BLANKET

FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

OPTIONAL 4TH CONE 24 X 24 UNITS ONLY

IMPERIAL UNITS (INCHES)

<table>
<thead>
<tr>
<th>CM</th>
<th>B</th>
<th>C</th>
<th>H</th>
<th>DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>24x24</td>
<td>2 1/2</td>
<td>1 1/8</td>
<td>6 9/16</td>
<td>6, 8, 10, 12, 14, 15</td>
</tr>
<tr>
<td>20X20</td>
<td>2 1/2</td>
<td>1 1/2</td>
<td>6 9/16</td>
<td>6, 8, 10</td>
</tr>
<tr>
<td>12x12</td>
<td>1 1/8</td>
<td>1 1/8</td>
<td>5 3/16</td>
<td>5, 6, 7, 8</td>
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SI UNITS (MM)

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<th>C</th>
<th>H</th>
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<tbody>
<tr>
<td>600x600</td>
<td>64</td>
<td>27</td>
<td>167</td>
<td>152, 203, 254, 305, 356, 381</td>
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<td>13</td>
<td>167</td>
<td>152, 203, 254</td>
</tr>
<tr>
<td>300x300</td>
<td>29</td>
<td>27</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 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 (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: SPEC. SYMBOL: 2015/03/31

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REV E
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

OPTIMAL 4TH CONE 24 X 24 UNITS ONLY

IMPERIAL UNITS (inches)

<table>
<thead>
<tr>
<th>CM</th>
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<td>1 1/8</td>
<td>7 13/16</td>
<td>6,8,10,12,14,15*</td>
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<tr>
<td>20x20</td>
<td>2 7/8</td>
<td>-</td>
<td>6 11/16</td>
<td>6 9/8,10*</td>
</tr>
<tr>
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<td>1 1/2</td>
<td>9/16</td>
<td>5 1/8</td>
<td>5,6,7,8*</td>
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</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*</td>
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<tr>
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<td>73</td>
<td>-</td>
<td>176</td>
<td>152*, 203*, 254*</td>
</tr>
<tr>
<td>300x300</td>
<td>44</td>
<td>16</td>
<td>149</td>
<td>127,152,178,203*</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.

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

PROJECT: SCDA-FR SQUARE CONE DIFFUSER FIRE RATED ASSEMBLY

ENGINEER:
CUSTOMER:
SUBMITTAL DATE: 228720
SPEC. SYMBOL: 2015/03/31
**SPD-FR SQUARE PLACQUE DIFFUSER FIRE RATED ASSEMBLY**

**IMPERIAL UNITS (inches)**

<table>
<thead>
<tr>
<th>CM</th>
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<th>H</th>
<th>DUCT SIZE</th>
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</thead>
<tbody>
<tr>
<td>24x24 (610x610)</td>
<td>2 1/2</td>
<td>6 9/16</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
</tr>
<tr>
<td>20x20 (508x508)</td>
<td>2 1/2</td>
<td>6 9/16</td>
<td>6,8,10,12,14,15 (152,203,254)</td>
</tr>
<tr>
<td>12x12 (305x305)</td>
<td>1 1/8</td>
<td>5 9/16</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 CONSTRUCTION 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) FUSELINK (STANDARD)
- 212°F (100°C) FUSELINK

**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 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: 228791 OR FOR PANEL SEE SUBMITTAL 233667
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**PROJECT:**

**SPEC. SYMBOL:**

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PDN-FR PERFORATED DIFFUSER, FIRE RATED ASSEMBLY

D NOMINAL DUCT

MAX OPEN POSITION DAMPER BLADES
WITH OPTIONAL VOLUME CONTROLLER

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

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

HINGED FACE

FUSIBLE LINKS AND OPTIONAL
ADJUSTABLE VOLUME CONTROLLER

<table>
<thead>
<tr>
<th>D SQUARE DUCT</th>
<th>D ROUND DUCT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nom. Duct</td>
<td>H</td>
</tr>
<tr>
<td>6 (152)</td>
<td>1 (25)</td>
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<td>8 (203)</td>
<td>2 (51)</td>
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<tr>
<td>10 (254)</td>
<td>3 (76)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>4 (102)</td>
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<tr>
<td>14 (356)</td>
<td>5 (127)</td>
</tr>
<tr>
<td>16 (381)</td>
<td>6 (152)</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
  (ALEN 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.
- 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: [signature]

CUSTOMER: [signature]

SUBMITTAL DATE: 228722

SPEC. SYMBOL: 2015/03/31

PDN-FR
PERFORATED DIFFUSER
WITH NECK DEFLECTORS
FIRE RATED

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

**Material:**
- STEEL CONSTRUCTION
- CEILING RADIATION DAMPER: BUTTERFLY TYPE
- THERMAL BLANKET: NON ASPBESTOS

**Finish:**
- 312 WHITE
  (OPTIONAL FINISHES AVAILABLE)

**Options:**
- 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.
- 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 SUBMITAL 228791
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

**Project:**

**Engineer:**

**Customer:**

**Submittal Date:**

**Spec. Symbol:**

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

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REV C
**PDF-FR PERFORATED DIFFUSER, FACE DEFLECTORS, FIRE RATED ASSEMBLY**

![Diagram of PDF-FR Perforated Diffuser with Face Deflectors](image)

**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

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

**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 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:**

<table>
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<th>SPEC. SYMBOL:</th>
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<tbody>
<tr>
<td>PDF-FR</td>
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<tr>
<td>PERFORATED DIFFUSER WITH FACE DEFLECTORS</td>
</tr>
<tr>
<td>FIRE RATED</td>
</tr>
</tbody>
</table>

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

**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.
- 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.

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

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

![Diagram of PDC-FR diffuser assembly]

**Available Air Patterns**
- 1-WAY
- 2-WAY
- 2-WAY CORNER
- 3-WAY
- 4-WAY

<table>
<thead>
<tr>
<th>CEILING MODULE</th>
<th>ROUND DUCT SIZE</th>
<th>SQUARE DUCT SIZE</th>
</tr>
</thead>
<tbody>
<tr>
<td>12x12 (305x305)</td>
<td>6 (152)</td>
<td>6x6 (152x152)</td>
</tr>
<tr>
<td>24x24 (610x610)</td>
<td>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
<td>6x6,6,8,6,10,12,14,16x12,14x15,16x16,18x18 (152x152,203x203,254x254,305x305,356x356,381x381,406x406,457x457)</td>
</tr>
</tbody>
</table>

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

**Paint:**
- 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 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 field adjustable from horizontal to vertical air pattern.
- Ducts, 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:**

**Price**

**PDC-FR**
- Perforated Diffuser
- C/W Adjustable Curved Blades
- Fire Rated

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PDCE-FR, PERFORATED DIFFUSER, FIRE RATED ASSEMBLY

NOTE: PAN HEIGHT IS 37" (940mm) FOR 12" X 12" (305 X 305) NOMINAL SIZE.

FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

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

FINISH:
□ B12 WHITE
(ODD FINISHES AVAILABLE)

OPTION:
□ ADJUSTABLE VOLUME CONTROLLER
□ 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.
- ULC 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 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 T-BAR APPLICATIONS ONLY.

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

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 228727

SPEC. SYMBOL: 2015/03/31

SERIES: 2015

REV C

(C) Copyright PRICE INDUSTRIES 2015
PDDR-FR   PERFORATED DIFFUSER, DUCTED RETURN, FIRE RATED 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 SUBMITAL 228791  
FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

D SQUARE DUCT  |  D ROUND DUCT

<table>
<thead>
<tr>
<th>NOM. DUCT</th>
<th>H</th>
<th>NOM. DUCT</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
<tr>
<td>8 (203)</td>
<td>2 (51)</td>
<td>8 X 8 (203 X 203)</td>
<td>3 (76)</td>
</tr>
<tr>
<td>10 (254)</td>
<td>3 (76)</td>
<td>10 X 10 (254 X 254)</td>
<td>4 (102)</td>
</tr>
<tr>
<td>12 (305)</td>
<td>4 (102)</td>
<td>12 X 12 (305 X 305)</td>
<td>5 (127)</td>
</tr>
<tr>
<td>14 (356)</td>
<td>5 (127)</td>
<td>14 X 14 (356 X 356)</td>
<td>6 (152)</td>
</tr>
<tr>
<td>15 (381)</td>
<td>5½ (140)</td>
<td>15 X 15 (381 X 381)</td>
<td>6½ (165)</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) FUSEABLE LINK (STANDARD)
- 212°F (100°C) FUSEABLE LINK

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

PROJECT:

ENGINEER:  
CUSTOMER:  
SUBMITTAL DATE: 228728 2015/03/31  
SPEC. SYMBOL: PDDR-FR PERFORATED DIFFUSER DUCTED RETURN FIRE RATED  
REV C

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

D = NOMINAL DUCT
NOM. DUCT = \(\frac{3}{4}\)" (3)
FUSE LINK (NON-ADJUSTABLE)
MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER

THERMAL BLANKET
NOTE: PAN HEIGHT IS 1\(\frac{3}{4}\)" (37)
FOR ALL MODULAR SIZES EXCEPT 24" x 24" (610 x 610)

HINGED FACE
OVERALL = CM = \(\frac{3}{4}\)" (6)
CEILING MODULE

FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

**D SQUARE DUCT**

<table>
<thead>
<tr>
<th>CEILING MODULE (CM)</th>
<th>6 x 6 (152 x 152)</th>
<th>8 x 8 (203 x 203)</th>
<th>10 x 10 (254 x 254)</th>
<th>12 x 12 (305 x 305)</th>
<th>14 x 14 (356 x 356)</th>
<th>16 x 16 (406 x 406)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 x 12 (305 x 305)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>20 x 20 (508 x 508)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>24 x 24 (610 x 610)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>30 x 30 (762 x 762)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>50 x 50 (1270 x 1270)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>60 x 60 (1524 x 1524)</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

**D ROUND DUCT**

<table>
<thead>
<tr>
<th>ROUND NECK</th>
<th>SQUARE NECK</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOM. DUCT</td>
<td>H</td>
</tr>
<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>16 (381)</td>
<td>5.5 (140)</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) 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.

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

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PDDR-FR PLENUM RETURN PERFORATED 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.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 2015/03/31

SPEC. SYMBOL: 236757
PDDRE-FR PLENUM RETURN PERFORATED EXTENDED FACE FIRE RATED DIFFUSER ASSEMBLY

---

**CEILING MODULE**

<table>
<thead>
<tr>
<th>IMERIAL</th>
<th>METRIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>12x12 (305x305)</td>
<td>10x10 (254x254)</td>
</tr>
<tr>
<td>24x12 (610x305)</td>
<td>22x10 (559x254)</td>
</tr>
<tr>
<td>16x16 (406x406)</td>
<td>14x14 (356x356)</td>
</tr>
<tr>
<td>20x20 (508x508)</td>
<td>18x18 (457x457)</td>
</tr>
<tr>
<td>24x24 (610x610)</td>
<td>22x22 (559x559)</td>
</tr>
<tr>
<td>300 x 300</td>
<td>249x249</td>
</tr>
<tr>
<td>600 x 300</td>
<td>549x549</td>
</tr>
<tr>
<td>400 x 400</td>
<td>349x349</td>
</tr>
<tr>
<td>500 x 500</td>
<td>449x449</td>
</tr>
<tr>
<td>600 x 600</td>
<td>549x549</td>
</tr>
</tbody>
</table>

**SQUARE NECK**

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

**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.
- 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:**
- PDDRE - STEEL CONSTRUCTION

**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:**

**SPEC. SYMBOL:**

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REV B
### SMD-FR MODULAR FIRE RATED DIFFUSER

**Max. Open Position Damper Blades with Optional Volume Controller**

**Fuse Link (Non-Adjustable)**

**Thermal Blanket**

**Overall = Nom. Duct + 5 3/4" (146)**

**Ceiling Module = Nom. Duct + 6" (152)**

---

#### 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>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>6,8,10,12,14,15 (152,203,254,305,356,381)</td>
</tr>
</tbody>
</table>

#### AVAILABLE CORE STYLES:

- **1S**: B12 White (Optional finishes available)
- **2S**: Adjustable Volume Controller (Allen Key Adjustable)
- **2E**: 165°F (74°C) Fusible Link (Standard)
- **2F**: 212°F (100°C) Fusible Link
- **3A**: Plan View
- **3B**: L = 2W
- **4A**: Panel option available in square core styles only

#### 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 hours
- 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
- 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

---

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

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

**SPEC. SYMBOL:**

---

**SMD-FR MODULAR DIFFUSER**

**FIRE RATED**

---

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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

NOM. DUCT = D
D = 1/8" (3)
FUSELINK (NON-ADJUSTABLE)

1 1/2"(38) TYPICAL SPACING

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

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

3P T-BAR PANEL

CEILING MODULE

D = DUCT

1/4" (6)

CEILING MODULE

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>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>
</tr>
</tbody>
</table>

AVAILABLE CORE STYLES:

- 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: 228732

SPEC. SYMBOL: 2015/03/31

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SMDA-FR
ADJUSTABLE MODULAR DIFFUSER
FIRE RATED

REV D
SMX-FR STEEL MODULAR FIRE RATED DIFFUSER

MAX. OPEN POSITION DAMPER BLADES WITH OPTIONAL VOLUME CONTROLLER

FUSIBLE LINKS WITH OPTIONAL ADJUSTABLE VOLUME CONTROLLER

THERMAL BLANKET

1 1/8' (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</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>

AVAILABLE CORE STYLES:

- 4A
- 15
- 2S
- 2G
- 3A

- 1A
- 1B
- 2A
- 2B
- 4B

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 LABORATORY 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.

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: 228733

SMX-FR STEEL MODULAR DIFFUSER WITH MIXING VANES FIRE RATED

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### SCVD-FR STEEL CURVED VANE FIRE RATED DIFFUSER

**Diagram**: Shows the structure and design of the steel curved vane fire rated diffuser.

**Tables**:

#### Ceiling Module

<table>
<thead>
<tr>
<th>Round Neck</th>
<th>Square Neck</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nom. Duct</td>
<td>C</td>
</tr>
<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>

| Nom. Duct  | C          |
| 6 X 6      | 2 (51)     |
| 8 X 8      | 3 (76)     |
| 8 X 8      | 3 (76)     |
| 10 X 10    | 4 (102)    |
| 12 X 12    | 5 (127)    |

**Round Neck**: H = 4 (102)

**Square Neck**: H = 5 (127)

**NOTE**:
- 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.
- SIZES 12x12, 20x20 & 24x24 AVAILABLE IN 1, 2, 3 & 4 WAY AIR PATTERNS.
- RECTANGULAR UNITS ARE AVAILABLE IN THE FOLLOWING LISTED DUCT DIMENSIONS: 18x6, 20x8, 22x10.
- DUCT: STEEL OR FLEX DUCT CONNECTIONS (BY OTHERS) AS PER FIRE RATED DESIGN REQUIREMENTS.
- INSTALLATION INSTRUCTIONS: 228792 OR FOR PANEL SEE SUBMITAL 233667.
- FIRE RATED DIFFUSERS ARE TO BE INSTALLED IN FIRE RATED T-BAR APPLICATIONS ONLY.

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

**FINISH**:
- ☑ 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

**PROJECT**:
- **ENGINEER**: [Signature]
- **CUSTOMER**: [Signature]
- **SUBMITTAL DATE**: 235664
- **SPEC. SYMBOL**: SCVD-FR
- **REV D**