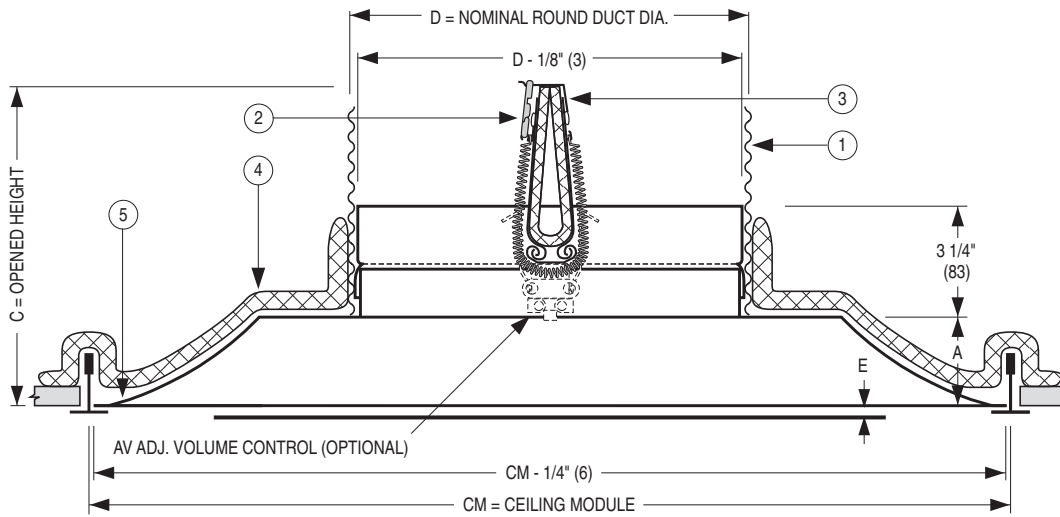




**FIRE RATED CEILING DIFFUSER**  
**ARCHITECTURAL • UNI**  
**STEEL • SQUARE FACE • ROUND NECK**  
**MODELS: 4410-UNI AND 4420-UNI**



CLASSIFIED  
**UL**  
CATEGORY  
BZZU



CLASSIFIED  
**UL**  
CATEGORY  
BZGUC



|                  | Imperial Modules        |        |          |     |                |    |     |    | Metric Modules |    |     |    |
|------------------|-------------------------|--------|----------|-----|----------------|----|-----|----|----------------|----|-----|----|
|                  | Imperial Units (inches) |        |          |     | SI Units (mm)  |    |     |    | SI Units (mm)  |    |     |    |
| Listed Neck Size | CM = 12 x 12            |        |          |     | CM = 305 x 305 |    |     |    | CM = 300 x 300 |    |     |    |
|                  | D                       | A      | C        | E   | D              | A  | C   | E  | D              | A  | C   | E  |
| 6                | 6                       | 1      | 5 1/2    | 5/8 | 152            | 25 | 140 | 16 | 152            | 25 | 140 | 16 |
| 8                | 8                       |        | 6 1/2    |     | 203            |    | 165 |    | 203            |    | 165 |    |
| Listed Neck Size | CM = 24 x 24            |        |          |     | CM = 610 x 610 |    |     |    | CM = 600 x 600 |    |     |    |
|                  | D                       | A      | C        | E   | D              | A  | C   | E  | D              | A  | C   | E  |
| 6                | 6                       |        | 6 13/16  |     | 152            |    | 173 |    | 152            |    | 173 |    |
| 8                | 8                       |        | 7 13/16  |     | 203            |    | 198 |    | 203            |    | 198 |    |
| 10               | 10                      | 2 5/16 | 8 13/16  | 3/8 | 254            | 59 | 224 | 10 | 254            | 59 | 224 | 10 |
| 12               | 12                      |        | 9 13/16  |     | 305            |    | 249 |    | 305            |    | 249 |    |
| 14               | 14                      |        | 10 13/16 |     | 356            |    | 275 |    | 356            |    | 275 |    |

**MODEL 4410-UNI**  
12 x 12 (300 x 300) module  
Type L Lay-in Frame

**MODEL 4420-UNI**  
24 x 24 (600 x 600) module  
Type L Lay-in Frame

**ITEMS:**

- Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
- U.L. Listed fusible link. 212°F (100°C) standard.
- Ceiling radiation damper/fire stop flap.
- Ceramic fibre thermal blanket.
- Corrosion resistant steel diffuser.

**DESCRIPTION:**

- All models are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL or ULC Fire Resistance Directory.
- A spring clip arrangement permits quick, easy installation and removal of the inner cone assembly.
- The diffuser delivered air in a true 360° streamline pattern. Excellent for VAV systems.
- The diffuser consists of stamped one-piece outer-cone which eliminates

- mitered corners and a double-skinned inner face panel with a hemmed edge for strength and a clean appearance.
- Fixed ceiling radiation damper is standard. The adjustable model with volume control for balancing is optional.
- Standard finish is AW Appliance White.

**OPTIONS:**

- AV Fusible link adjustable volume control (Model 0722A damper)
- Non-standard temperature U.L. Listed fusible link.  
 165°F (74°C)
- Finish:  
 SP Special \_\_\_\_\_ .

For installation instructions, see IOM-FRDSINST or IOM-FRDFINST.

Dimensions are in inches (mm).

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

**DATE**

**B SERIES**

**SUPERSEDES**

**DRAWING NO.**

11 - 24 - 16

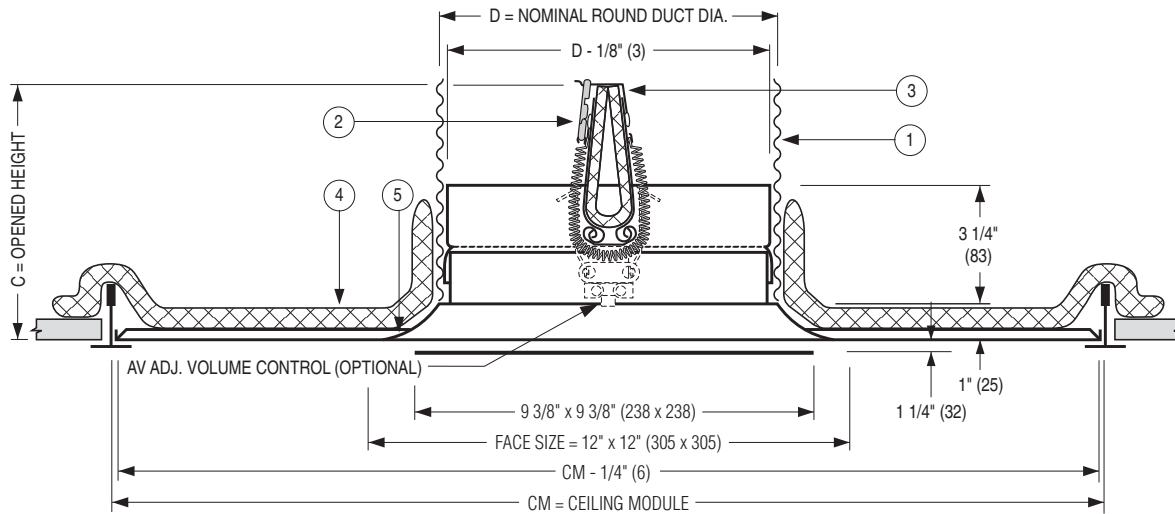
4400

5 - 11 - 15

4400-3



**FIRE RATED CEILING DIFFUSER**  
**ARCHITECTURAL • UNI • PANEL TYPE**  
**STEEL • SQUARE FACE • ROUND NECK**  
**MODELS: 4430-UNI AND 4440-UNI**



CLASSIFIED  
 CATEGORY  
 BZZU



CLASSIFIED  
 CATEGORY  
 BZGUC



|                  | Imperial Modules        |               | SI Units (mm)  |               | Metric Modules |               |
|------------------|-------------------------|---------------|----------------|---------------|----------------|---------------|
|                  | Imperial Units (inches) | SI Units (mm) | SI Units (mm)  | SI Units (mm) | SI Units (mm)  | SI Units (mm) |
| Listed Neck Size | CM = 24 x 12            |               | CM = 610 x 305 |               | CM = 600 x 300 |               |
|                  | D                       | C             | D              | C             | D              | C             |
| 6                | 6                       | 5 1/2         | 152            | 140           | 152            | 140           |
| 8                | 8                       | 6 1/2         | 203            | 165           | 203            | 165           |
| Listed Neck Size | CM = 24 x 24            |               | CM = 610 x 610 |               | CM = 600 x 600 |               |
|                  | D                       | C             | D              | C             | D              | C             |
| 6                | 6                       | 5 1/2         | 152            | 140           | 152            | 140           |
| 8                | 8                       | 6 1/2         | 203            | 165           | 203            | 165           |

**MODEL 4430-UNI**  
 24 x 12 (600 x 300) module  
 Type PL Panel Lay-in Frame

**MODEL 4440-UNI**  
 24 x 24 (600 x 600) module  
 Type PL Panel Lay-in Frame

**ITEMS:**

1. Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
2. U.L. Listed fusible link. 212°F (100°C) standard.
3. Ceiling radiation damper/fire stop flap.
4. Ceramic fibre thermal blanket.
5. Corrosion resistant steel panel diffuser.

**DESCRIPTION:**

1. All models are classified for use in UL/ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate an exposed grid suspended ceiling (lay-in T-bar) with up to a 3 hour rating. For details of fire rated assemblies, see the current UL or ULC Fire Resistance Directory.
2. A spring clip arrangement permits quick, easy installation and removal of the inner cone assembly.
3. The diffuser delivered air in a true 360° streamline pattern. Excellent for VAV systems.
4. The diffuser consists of a stamped one-piece outer cone extended panel which eliminates mitered corners and a double skinned inner face panel

with a hemmed edge for strength and a clean appearance.

5. Fixed ceiling radiation damper is standard. The adjustable model with adjustable volume control for balancing is optional.
6. Standard finish is AW Appliance White.

**OPTIONS:**

1.  AV Fusible link adjustable volume control (Model 0722A damper)
2. Non-standard temperature U.L. Listed fusible link.  
 165°F (74°C)
3. Finish:  
 SP Special \_\_\_\_\_.

**For installation instructions, see IOM-FRDSINST or IOM-FRDFINST.**

Dimensions are in inches (mm).

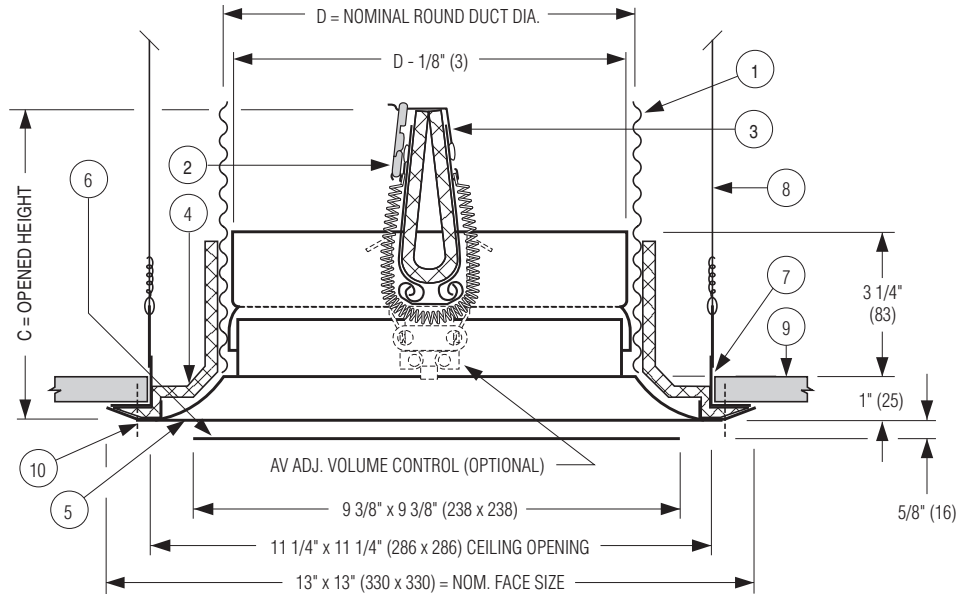
|                       |
|-----------------------|
| <b>SCHEDULE TYPE:</b> |
| <b>PROJECT:</b>       |
| <b>ENGINEER:</b>      |
| <b>CONTRACTOR:</b>    |

| DATE         | B SERIES | SUPERSEDES   | DRAWING NO. |
|--------------|----------|--------------|-------------|
| 11 - 24 - 16 | 4400     | 11 - 11 - 15 | 4400-4      |



**FIRE RATED CEILING DIFFUSER**  
**ARCHITECTURAL • UNI • SURFACE MOUNT**  
**STEEL • SQUARE FACE • ROUND NECK**  
**MODEL: 4410-UNI TYPE S**

**12 x 12 (300 x 300) SURFACE MOUNT MODULE FOR HARD CEILINGS.**



| Listed Neck Size | Imperial Modules        |                | SI Units (mm) |     | Metric Modules |     |
|------------------|-------------------------|----------------|---------------|-----|----------------|-----|
|                  | Imperial Units (inches) |                | SI Units (mm) |     | SI Units (mm)  |     |
|                  | CM = 12 x 12            | CM = 305 x 305 | D             | C   | D              | C   |
| 6                | 6                       | 5 1/2          | 152           | 140 | 152            | 140 |
| 8                | 8                       | 6 1/2          | 203           | 165 | 203            | 165 |

**MODEL 4410-UNI**  
 12 x 12 (300 x 300) module  
 Type S Surface Mount Frame

**ITEMS:**

1. Flexible air duct (UL/ULC Class 0 or 1) connector or steel duct.
2. U.L. Listed fusible link. 212°F (100°C) standard.
3. Ceiling radiation damper/fire stop flap.
4. Ceramic fibre thermal blanket.
5. Corrosion resistant steel diffuser.
6. Plaque face.
7. Mounting support frame.
8. Hanger wires (by others).
9. Ceiling membrane.
10. Mounting screws.

2. A spring clip arrangement permits quick, easy installation and removal of the inner cone assembly.
3. The diffuser delivered air in a true 360° streamline pattern. Excellent for VAV systems.
4. The diffuser consists of a stamped one piece outer cone and a plaque inner face panel with a hemmed edge for strength and a clean appearance.
5. Standard finish is AW Appliance White.

**DESCRIPTION:**

1. Classified by Underwriters' Laboratories of Canada (ULC) for use in ULC restrained or unrestrained floor/ceiling and or roof/ceiling assemblies which incorporate air ducts and a hard (gypsum board) ceiling membrane with up to a 3 hour rating. For details of fire rated assemblies, see the current ULC Fire Resistance Directory. The use of this product in fire-rated ceilings with ceiling membrane protection and/or UL Classified assemblies in the U.S.A. requires local approval by the authority having jurisdiction.

**OPTIONS:**

1.  AV Fusible link adjustable volume control (Model 0722A damper).
2. Non-standard temperature U.L. Listed fusible link.  165°F (74°C)
3. Finish:  SP Special

**For installation instructions, see IOM-FRDSMINST.**

|                       |                                |                 |                   |                    |
|-----------------------|--------------------------------|-----------------|-------------------|--------------------|
| <b>SCHEDULE TYPE:</b> | Dimensions are in inches (mm). |                 |                   |                    |
| <b>PROJECT:</b>       |                                |                 |                   |                    |
| <b>ENGINEER:</b>      | <b>DATE</b>                    | <b>B SERIES</b> | <b>SUPERSEDES</b> | <b>DRAWING NO.</b> |
| <b>CONTRACTOR:</b>    | 11 - 11 - 15                   | 4400            | 5 - 11 - 15       | 4400-7             |

Nailor offers a selection of standard colors and finishes available on our grilles, registers and diffusers. For painted finishes, our state-of-the-art paint systems provide environmentally friendly finishing solutions with uniform coverage and coating thickness. The result is an exceptionally durable finish that resists scratching, corrosion and general wear. Additional facilities for special requirements, as well as a selection of anodized or brushed finishes, complete our ability to provide unmatched beauty and durability for any application.

**NAILOR POWDER COAT PROPERTIES**

|                   |                                                    |
|-------------------|----------------------------------------------------|
| FILM THICKNESS    | 2.0 to 3.0 mils                                    |
| HARDNESS          | 2 H                                                |
| IMPACT RESISTANCE | Direct: 160 inch - lbs.<br>Reverse 160 inch - lbs. |
| SALT SPRAY        | 1000 hours                                         |

**ELECTROCOATING PROPERTIES**

|                   |                |
|-------------------|----------------|
| FILM THICKNESS    | .8 to 1.2 mils |
| HARDNESS          | HB TO H        |
| IMPACT RESISTANCE | 80 inch - lbs  |
| SALT SPRAY        | 100 hours      |


**POWDER COAT**

Nailor's powder coat is a high-tech thermosetting polyester powder coating with superior physical properties that provide excellent color and gloss retention. The finish offers extreme durability and hardness that resists scratching, chipping and general wear. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse before a final powder coat finish is applied and baked. The environmentally friendly Nailor powder coat system assures uniform coverage and color consistency resulting in a long lasting superior finish. Colors, including simulated anodizing, which is far more economical than color anodizing, can be selected from Nailor's standard color chart or non-standard colors and can be matched from sample chips provided to Nailor.

**ELECTROCOATING**

E-Coat is an environmentally friendly coating that provides complete coverage and a wide range of performance properties, formulated to meet corrosion, durability and other performance specifications. Electrocoating is a highly automated process in which paint is electrically deposited onto a metal foundation. Film build thickness is uniform and overall application efficiencies are in excess of 90%. Paint is consistent on all part-to-part surfaces, preventing sags, runs or drips. E-Coat offers flexibility, better first yield pass and quicker production times compared to other forms of paint applications. Electrocoating is an excellent solution that offers superior properties and uniform finish.

**CLEAR ANODIZING** (Aluminum products only)

Clear anodizing is a clear oxide coating that exemplifies an aluminum surface's natural oxide coating producing a hard, scratch resistant surface that is resistant to general wear and mild chemicals. The process provides a natural looking, virtually maintenance free finish that will endure for many years.

**COLOR ANODIZING** (Aluminum products only)

Color anodizing is an electrolytic process where, after standard anodizing procedures, colored metallic pigments penetrate the oxide surface pores producing a corrosion resistant, colorfast finish. The process results in a natural metallic appearance that requires little maintenance.

**BRUSHED AND CLEAR COAT**

Available on specific aluminum products (consult applicable product page for availability). Surface is brushed to achieve a scratch finish texture before being degreased and chemically cleaned. A clear lacquer coating is then applied to provide a durable protective finish.

**#4 BRUSHED SATIN POLISHED** (Stainless Steel products only)

Surface is polished to ASTM A480 #4 standard to achieve a bright durable finish that is resistant to mild chemicals and corrosion. A final coating is not required due to the inherent anti-corrosion properties of the stainless steel.

**PRIME COAT**

Prime coat provides a stable base for painting in the field. Surface pretreatment includes degreasing and a chemical cleaning before an alkyd prime coat is applied. After a thorough cleaning for dust, etc. that can contaminate the final finish and cause premature flaking or peeling, finish coat should be field applied as soon as possible.

**PAINT PREPARED ALUMINUM** (Aluminum products only)

Allows for field applied paint. Surface preparation includes degreasing and a chemical cleaning followed by a clean rinse. Finish coat should be field applied as soon as possible.

**MILL FINISH**

Surface is left untreated and requires cleaning, degreasing, etc. in the field before final finish can be applied if required.

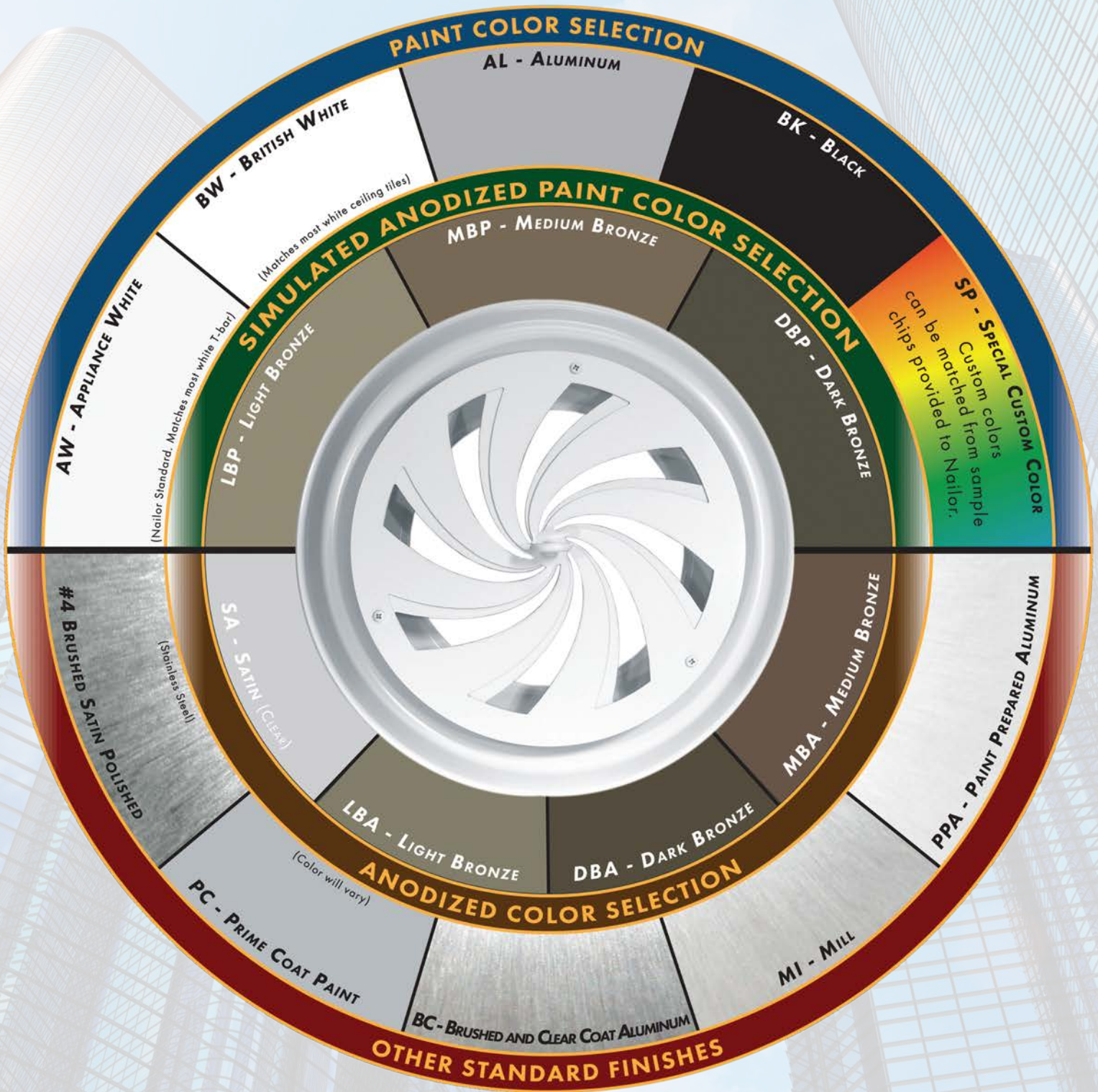




**Nailor**<sup>®</sup>  
Industries Inc.

## STANDARD AND OPTIONAL FINISHES FOR GRILLES AND DIFFUSERS

The following standard colors and finishes are available on applicable Nailor air distribution products. Consult individual product pages for availability



The pictured finishes have been represented as best as possible within printing limitations. However, actual finish may vary. Contact your Nailor representative for a color chip sample on the material specified for a more accurate representation.

**DBK** - Black (for registers ordered with factory mounted dampers) - **BA** - Perforated Diffusers (4300 series only) Appliance White (AW) face with black back pan and pattern controllers.

"Complete Air Control and Distribution Solutions."

WGDSOF2015

[www.nailor.com](http://www.nailor.com)

## PERFORMANCE DATA:

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 4-way Blow (360° Pattern)

| Nominal Neck Size | Neck Velocity, FPM | 400        | 500        | 600        | 700        | 800        | 900        | 1000       | 1200       | 1400       | 1600       |
|-------------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                   | Velocity Pressure  | .010       | .016       | .023       | .031       | .040       | .051       | .063       | .090       | .122       | .160       |
| 4" Dia.           | Total Pressure     | .023       | .036       | .051       | .07        | .091       | .115       | .142       | .205       | .279       | .364       |
|                   | Airflow, CFM       | <b>35</b>  | <b>45</b>  | <b>50</b>  | <b>60</b>  | <b>70</b>  | <b>80</b>  | <b>85</b>  | <b>105</b> | <b>120</b> | <b>140</b> |
|                   | Throw              | 1-2-3      | 1-2-4      | 2-2-5      | 2-3-6      | 2-3-6      | 2-4-7      | 3-4-7      | 3-5-7      | 4-6-7      | 5-7-8      |
|                   | Noise Criteria     | —          | —          | —          | 13.000     | 17         | 21         | 24         | 30         | 35         | 40         |
| 5" Dia.           | Total Pressure     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                   | Airflow, CFM       | <b>55</b>  | <b>70</b>  | <b>80</b>  | <b>95</b>  | <b>110</b> | <b>125</b> | <b>135</b> | <b>165</b> | <b>190</b> | <b>220</b> |
|                   | Throw              | 2-2-4      | 2-3-5      | 2-3-6      | 3-4-7      | 3-5-8      | 4-6-9      | 4-7-9      | 4-8-10     | 5-8-10     | 6-9-11     |
|                   | Noise Criteria     | —          | —          | —          | 14         | 18         | 22         | 25         | 31         | 36         | 41         |
| 6" Dia.           | Total Pressure     | .033       | .052       | .074       | .101       | .131       | .166       | .205       | .295       | .402       | .525       |
|                   | Airflow, CFM       | <b>80</b>  | <b>100</b> | <b>120</b> | <b>140</b> | <b>160</b> | <b>180</b> | <b>200</b> | <b>235</b> | <b>275</b> | <b>315</b> |
|                   | Throw              | 2-3-5      | 3-4-6      | 3-5-7      | 4-5-8      | 5-6-9      | 5-7-10     | 5-8-10     | 6-9-11     | 7-10-12    | 7-10-13    |
|                   | Noise Criteria     | —          | —          | 1.000      | 15         | 19         | 23         | 26         | 32         | 37         | 42         |
| 7" Dia.           | Total Pressure     | .056       | .089       | .127       | .172       | .225       | .285       | .352       | .506       | .689       | .900       |
|                   | Airflow, CFM       | <b>105</b> | <b>135</b> | <b>160</b> | <b>190</b> | <b>215</b> | <b>240</b> | <b>265</b> | <b>320</b> | <b>375</b> | <b>430</b> |
|                   | Throw              | 3-4-6      | 3-5-7      | 4-6-9      | 4-7-10     | 5-8-10     | 6-8-11     | 6-9-12     | 7-10-13    | 8-11-14    | 9-12-15    |
|                   | Noise Criteria     | —          | —          | 11         | 16         | 20         | 24         | 27         | 33         | 38         | 43         |
| 8" Dia.           | Total Pressure     | .067       | .105       | .160       | .205       | .268       | .340       | .418       | .600       | .821       | 1.070      |
|                   | Airflow, CFM       | <b>140</b> | <b>175</b> | <b>210</b> | <b>245</b> | <b>280</b> | <b>315</b> | <b>350</b> | <b>420</b> | <b>490</b> | <b>560</b> |
|                   | Throw              | 3-5-7      | 4-6-9      | 5-7-10     | 6-8-11     | 6-9-12     | 7-9-13     | 7-10-14    | 8-11-15    | 9-12-16    | 9-12-17    |
|                   | Noise Criteria     | —          | —          | 12         | 17         | 21         | 25         | 28         | 34         | 39         | 44         |

### Models UNI and AUNI • 20 x 20 (500 x 500) Face Size • 4-way Blow (360° Pattern)

| Nominal Neck Size | Neck Velocity, FPM | 400        | 500        | 600        | 700        | 800        | 900        | 1000       | 1200       | 1400       | 1600       |
|-------------------|--------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                   | Velocity Pressure  | .010       | .016       | .023       | .031       | .040       | .051       | .063       | .090       | .122       | .160       |
| 6" Dia.           | Total Pressure     | .014       | .021       | .031       | .042       | .055       | .070       | .086       | .124       | .168       | .220       |
|                   | Airflow, CFM       | <b>80</b>  | <b>100</b> | <b>120</b> | <b>140</b> | <b>160</b> | <b>180</b> | <b>200</b> | <b>235</b> | <b>275</b> | <b>315</b> |
|                   | Throw              | 1-3-5      | 2-3-4      | 2-4-5      | 2-4-6      | 2-5-6      | 3-4-7      | 3-5-8      | 4-6-9      | 4-6-10     | 5-6-10     |
|                   | Noise Criteria     | —          | —          | —          | —          | 14         | 18         | 22         | 28         | 34         | 39         |
| 8" Dia.           | Total Pressure     | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          |
|                   | Airflow, CFM       | <b>140</b> | <b>175</b> | <b>210</b> | <b>245</b> | <b>280</b> | <b>315</b> | <b>350</b> | <b>420</b> | <b>490</b> | <b>560</b> |
|                   | Throw              | 2-2-4      | 2-3-5      | 2-3-7      | 3-4-8      | 3-5-9      | 4-6-9      | 5-7-10     | 6-8-11     | 7-9-12     | 8-10-13    |
|                   | Noise Criteria     | —          | —          | —          | 13         | 18         | 22         | 26         | 32         | 38         | 43         |
| 10" Dia.          | Total Pressure     | .031       | .049       | .071       | .096       | .126       | .159       | .196       | .283       | .385       | .503       |
|                   | Airflow, CFM       | <b>220</b> | <b>270</b> | <b>330</b> | <b>380</b> | <b>435</b> | <b>490</b> | <b>545</b> | <b>655</b> | <b>765</b> | <b>875</b> |
|                   | Throw              | 3-4-7      | 3-5-9      | 3-5-10     | 4-6-12     | 5-7-13     | 6-8-12     | 7-9-14     | 8-11-15    | 10-12-17   | 11-13-18   |
|                   | Noise Criteria     | —          | —          | 10         | 16         | 21         | 25         | 29         | 35         | 41         | 46         |

#### Performance Notes:

- Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
- All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
- Return Applications:

Use the following correction factors with the supply data.

Noise Criteria = + 3 Noise Criteria (NC)

Negative Static Pressure = Total Pressure x .45

- Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates a Noise Criteria of less than 10.

5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

| Neck Size Diameter in Inches | Nominal Overall Face Size | Ak Factor |
|------------------------------|---------------------------|-----------|
| 6                            | 12 x 12                   | .105      |
| 8                            | 12 x 12                   | .129      |
| 6                            | 24 x 24                   | .206      |
| 8                            | 24 x 24                   | .248      |
| 10                           | 24 x 24                   | .315      |
| 12                           | 24 x 24                   | .384      |
| 14                           | 24 x 24                   | .437      |
| 15                           | 24 x 24                   | .485      |



## PERFORMANCE DATA:

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 4-way Blow (360° Pattern)

| Nominal Neck Size | Neck Velocity, FPM | 400    | 500     | 600     | 700      | 800      | 900      | 1000     | 1200     | 1400     | 1600     |
|-------------------|--------------------|--------|---------|---------|----------|----------|----------|----------|----------|----------|----------|
|                   | Velocity Pressure  | .010   | .016    | .023    | .031     | .040     | .051     | .063     | .090     | .122     | .160     |
| 6" Dia.           | Total Pressure     | .01    | .02     | .03     | .041     | .053     | .068     | .084     | .12      | .164     | .214     |
|                   | Airflow, CFM       | 80     | 100     | 120     | 140      | 160      | 180      | 200      | 235      | 275      | 315      |
|                   | Throw              | 1-3-4  | 1-3-4   | 2-4-5   | 2-4-6    | 2-5-6    | 3-4-7    | 3-5-8    | 4-6-9    | 4-6-10   | 5-6-10   |
|                   | Noise Criteria     | —      | —       | —       | —        | 14       | 18       | 22       | 28       | 34       | 39       |
| 8" Dia.           | Total Pressure     | 0      | 0       | 0       | 0        | 0        | 0        | 0        | 0        | 0        | 0        |
|                   | Airflow, CFM       | 140    | 175     | 210     | 245      | 280      | 315      | 350      | 420      | 490      | 560      |
|                   | Throw              | 2-2-4  | 2-3-5   | 2-3-7   | 3-4-8    | 3-5-9    | 4-6-9    | 5-7-10   | 6-8-11   | 7-9-12   | 8-10-13  |
|                   | Noise Criteria     | —      | —       | —       | 13       | 18       | 22       | 26       | 32       | 38       | 43       |
| 10" Dia.          | Total Pressure     | .031   | .048    | .069    | .093     | .122     | .155     | .191     | .275     | .375     | .489     |
|                   | Airflow, CFM       | 220    | 270     | 330     | 380      | 435      | 490      | 545      | 655      | 765      | 870      |
|                   | Throw              | 3-4-7  | 3-5-9   | 3-5-10  | 4-6-12   | 5-7-13   | 5-8-12   | 7-9-14   | 8-11-15  | 10-12-17 | 11-13-18 |
|                   | Noise Criteria     | —      | —       | 1.000   | 16       | 21       | 25       | 29       | 35       | 41       | 46       |
| 12" Dia.          | Total Pressure     | .04    | .063    | .09     | .123     | .161     | .203     | .251     | .361     | .492     | .643     |
|                   | Airflow, CFM       | 315    | 390     | 470     | 550      | 630      | 705      | 785      | 940      | 1100     | 1255     |
|                   | Throw              | 4-5-10 | 4-7-13  | 5-8-14  | 7-9-16   | 8-11-17  | 8-12-17  | 10-14-19 | 11-15-20 | 14-17-23 | 16-18-25 |
|                   | Noise Criteria     | —      | —       | 13      | 19       | 24       | 28       | 32       | 38       | 44       | 49       |
| 14" Dia.          | Total Pressure     | .054   | .083    | .12     | .163     | .214     | .27      | .334     | .481     | .655     | .855     |
|                   | Airflow, CFM       | 425    | 530     | 635     | 745      | 850      | 955      | 1060     | 1270     | 1490     | 1695     |
|                   | Throw              | 5-7-14 | 6-9-16  | 43292   | 44117    | 45245    | 45247    | 14-19-26 | 16-21-28 | 19-22-31 | 20-24-33 |
|                   | Noise Criteria     | —      | —       | 15      | 21       | 26       | 30       | 34       | 40       | 46       | 51       |
| 15" Dia.          | Total Pressure     | .065   | .102    | .147    | .2       | .26      | .33      | .408     | .588     | .799     | 1.044    |
|                   | Airflow, CFM       | 490    | 615     | 735     | 860      | 985      | 1110     | 1230     | 1470     | 1720     | 1970     |
|                   | Throw              | 6-9-17 | 7-11-19 | 9-13-21 | 11-16-24 | 14-19-26 | 14-20-27 | 16-21-30 | 19-24-33 | 23-26-35 | 23-27-38 |
|                   | Noise Criteria     | —      | —       | 16      | 22       | 27       | 31       | 35       | 41       | 47       | 52       |

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.
3. Return Applications:  
Use the following correction factors with the supply data.  
Noise Criteria = + 3 Noise Criteria (NC)  
Negative Static Pressure = Total Pressure x .45

4. Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates an Noise Criteria of less than 10.
5. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

| Neck Size Diameter in Inches | Nominal Overall Face Size | Ak Factor |
|------------------------------|---------------------------|-----------|
| 6                            | 12 x 12                   | .105      |
| 8                            | 12 x 12                   | .129      |
| 6                            | 24 x 24                   | .206      |
| 8                            | 24 x 24                   | .248      |
| 10                           | 24 x 24                   | .315      |
| 12                           | 24 x 24                   | .384      |
| 14                           | 24 x 24                   | .437      |
| 15                           | 24 x 24                   | .485      |

## PERFORMANCE DATA:

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 3-way Blow

| Nominal Neck Size | Neck Velocity, FPM | 300   | 400    | 500    | 600    | 700     | 800     | 900     | 1000    | 1200    | 1400     |
|-------------------|--------------------|-------|--------|--------|--------|---------|---------|---------|---------|---------|----------|
|                   | Velocity Pressure  | .006  | .010   | .016   | .023   | .031    | .040    | .051    | .063    | .090    | .122     |
| 6" Dia.           | Total Pressure     | .035  | .061   | .096   | .138   | .188    | .245    | .311    | .383    | .529    | .725     |
|                   | Airflow, CFM       | 60    | 80     | 100    | 120    | 140     | 160     | 180     | 200     | 235     | 275      |
|                   | Throw              | 2-4-6 | 3-6-9  | 5-7-9  | 5-8-10 | 6-9-12  | 7-9-13  | 7-10-14 | 8-11-15 | 8-12-16 | 9-13-17  |
|                   | Noise Criteria     | —     | —      | 12     | 18     | 23      | 27      | 31      | 34      | 40      | 45       |
| 8" Dia.           | Total Pressure     | .076  | .135   | .211   | .304   | .414    | .540    | .684    | .844    | 1.215   | 1.654    |
|                   | Airflow, CFM       | 105   | 140    | 175    | 210    | 245     | 280     | 315     | 350     | 420     | 490      |
|                   | Throw              | 3-5-7 | 5-7-10 | 5-8-11 | 6-9-12 | 7-10-13 | 7-10-14 | 8-11-15 | 9-12-16 | 9-12-17 | 10-13-18 |
|                   | Noise Criteria     | —     | —      | 14     | 20     | 25      | 29      | 33      | 36      | 42      | 47       |

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 3-Way Blow

| Nominal Neck Size | Neck Velocity, FPM | 300    | 400     | 500      | 600      | 700      | 800      | 900      | 1000     | 1200     | 1400     |
|-------------------|--------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
|                   | Velocity Pressure  | .006   | .010    | .016     | .023     | .031     | .040     | .051     | .063     | .090     | .122     |
| 6" Dia.           | Total Pressure     | .010   | .018    | .028     | .041     | .055     | .072     | .091     | .113     | .155     | .213     |
|                   | Airflow, CFM       | 60     | 80      | 100      | 120      | 140      | 160      | 180      | 200      | 235      | 275      |
|                   | Throw              | 1-3-4  | 1-3-4   | 2-4-5    | 2-5-6    | 3-4-7    | 4-5-8    | 4-6-9    | 4-6-10   | 5-6-10   | 6-7-11   |
|                   | Noise Criteria     | —      | —       | —        | 11       | 17       | 22       | 26       | 30       | 36       | 42       |
| 8" Dia.           | Total Pressure     | .016   | .028    | .043     | .062     | .085     | .111     | .140     | .173     | .249     | .339     |
|                   | Airflow, CFM       | 105    | 140     | 175      | 210      | 245      | 280      | 315      | 350      | 420      | 490      |
|                   | Throw              | 2-2-4  | 2-3-6   | 3-4-8    | 3-5-8    | 4-6-9    | 5-7-10   | 6-8-11   | 7-9-12   | 8-10-13  | 9-11-14  |
|                   | Noise Criteria     | —      | —       | —        | 15       | 21       | 26       | 30       | 34       | 40       | 46       |
| 10" Dia.          | Total Pressure     | .032   | .057    | .085     | .127     | .169     | .221     | .281     | .347     | .501     | .684     |
|                   | Airflow, CFM       | 165    | 220     | 270      | 330      | 380      | 435      | 490      | 545      | 655      | 765      |
|                   | Throw              | 3-4-7  | 3-5-9   | 4-6-10   | 5-7-11   | 5-8-12   | 7-10-13  | 8-11-15  | 9-12-16  | 11-13-18 | 12-14-19 |
|                   | Noise Criteria     | —      | —       | —        | 18       | 24       | 29       | 33       | 37       | 43       | 49       |
| 12" Dia.          | Total Pressure     | .043   | .077    | .118     | .171     | .235     | .308     | .386     | .478     | .686     | .939     |
|                   | Airflow, CFM       | 235    | 315     | 390      | 470      | 550      | 630      | 705      | 785      | 940      | 1100     |
|                   | Throw              | 4-5-10 | 5-7-13  | 6-9-15   | 8-11-17  | 9-13-18  | 10-14-19 | 11-15-20 | 13-16-22 | 16-18-25 | 18-21-28 |
|                   | Noise Criteria     | —      | —       | 12       | 21       | 27       | 32       | 36       | 40       | 46       | 52       |
| 14" Dia.          | Total Pressure     | .060   | .106    | .165     | .237     | .326     | .425     | .536     | .661     | .949     | 1.306    |
|                   | Airflow, CFM       | 320    | 425     | 530      | 635      | 745      | 850      | 955      | 1060     | 1270     | 1490     |
|                   | Throw              | 5-7-14 | 6-9-16  | 9-12-19  | 11-15-23 | 12-18-24 | 14-19-26 | 16-21-28 | 19-21-30 | 20-24-33 | 21-26-35 |
|                   | Noise Criteria     | —      | —       | 14       | 23       | 29       | 34       | 38       | 42       | 48       | 54       |
| 15" Dia.          | Total Pressure     | .074   | .130    | .205     | .293     | .401     | .526     | .668     | .820     | 1.172    | 1.604    |
|                   | Airflow, CFM       | 370    | 490     | 615      | 735      | 860      | 985      | 1110     | 1230     | 1470     | 1720     |
|                   | Throw              | 6-9-17 | 8-12-20 | 11-16-24 | 14-19-26 | 14-20-27 | 17-22-31 | 19-24-33 | 22-25-35 | 23-27-38 | 24-29-40 |
|                   | Noise Criteria     | —      | —       | 15       | 24       | 30       | 35       | 39       | 43       | 49       | 55       |

#### Performance Notes:

1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.

2. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.

3. Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates a Noise Criteria of less than 10.

4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

| Neck Size Diameter in Inches | Nominal Overall Face Size | Ak Factor |
|------------------------------|---------------------------|-----------|
| 6                            | 12 x 12                   | .079      |
| 8                            | 12 x 12                   | .098      |
| 6                            | 24 x 24                   | .155      |
| 8                            | 24 x 24                   | .186      |
| 10                           | 24 x 24                   | .236      |
| 12                           | 24 x 24                   | .288      |
| 14                           | 24 x 24                   | .328      |
| 15                           | 24 x 24                   | .364      |



## PERFORMANCE DATA:

### Models UNI and AUNI • 12 x 12 (300 x 300) Face Size • 2-way Blow

| Nominal Neck Size | Neck Velocity, FPM | 200   | 300    | 400    | 500     | 600     | 700     | 800     | 900      | 1000     | 1200     |
|-------------------|--------------------|-------|--------|--------|---------|---------|---------|---------|----------|----------|----------|
|                   | Velocity Pressure  | .003  | .006   | .010   | .016    | .023    | .031    | .040    | .051     | .063     | .090     |
| 6" Dia.           | Total Pressure     | .032  | .071   | .126   | .198    | .284    | .387    | .506    | .640     | .790     | 1.091    |
|                   | Airflow, CFM       | 40    | 60     | 80     | 100     | 120     | 140     | 160     | 180      | 200      | 235      |
|                   | Throw              | 2-4-6 | 4-6-9  | 5-8-10 | 6-9-12  | 7-9-13  | 8-11-15 | 8-12-16 | 9-12-17  | 9-13-18  | 10-13-19 |
|                   | Noise Criteria     | —     | —      | 16     | 22      | 25      | 30      | 34      | 38       | 41       | 47       |
| 8" Dia.           | Total Pressure     | .074  | .166   | .294   | .460    | .662    | .902    | 1.178   | 1.491    | 1.840    | 2.650    |
|                   | Airflow, CFM       | 70    | 105    | 140    | 175     | 210     | 245     | 280     | 315      | 350      | 420      |
|                   | Throw              | 3-5-7 | 5-7-10 | 6-9-12 | 7-10-14 | 8-11-15 | 9-12-16 | 9-12-17 | 10-12-18 | 10-13-19 | 11-14-20 |
|                   | Noise Criteria     | —     | 11     | 18     | 24      | 27      | 32      | 36      | 40       | 43       | 49       |

### Models UNI and AUNI • 24 x 24 (600 x 600) Face Size • 2-Way Blow

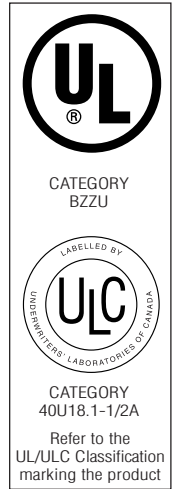
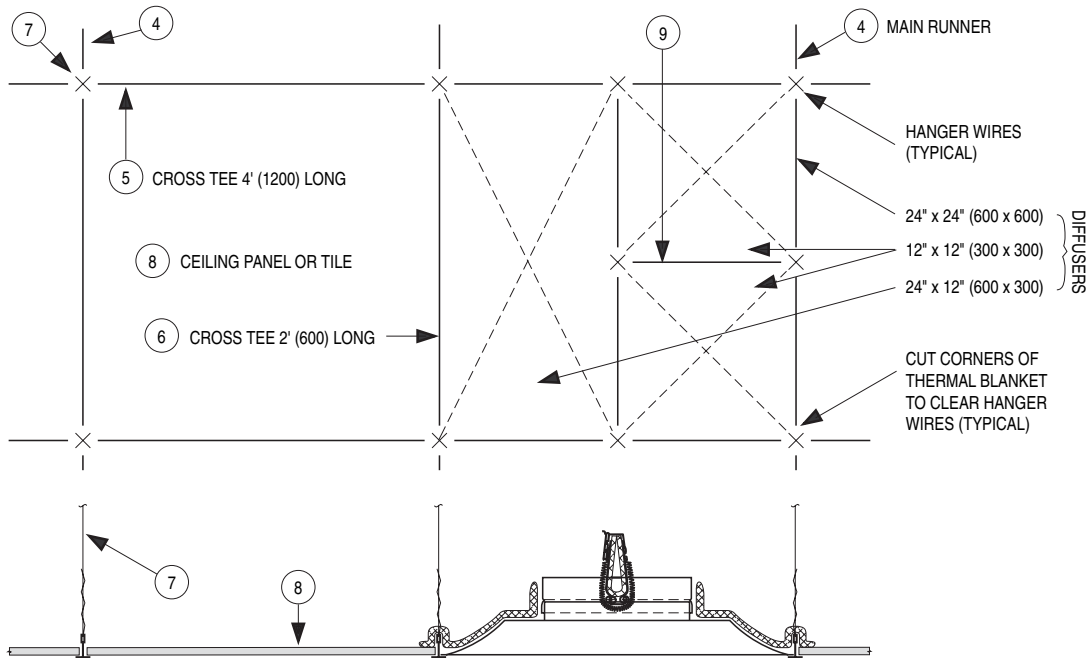
| Nominal Neck Size | Neck Velocity, FPM | 300    | 400     | 500      | 600      | 700      | 800      | 900      | 1000     | 1200     | 1400     |
|-------------------|--------------------|--------|---------|----------|----------|----------|----------|----------|----------|----------|----------|
|                   | Velocity Pressure  | .006   | .010    | .016     | .023     | .031     | .040     | .051     | .063     | .090     | .122     |
| 6" Dia.           | Total Pressure     | .007   | .016    | .028     | .043     | .063     | .085     | .111     | .141     | .174     | .240     |
|                   | Airflow, CFM       | 40     | 60      | 80       | 100      | 120      | 140      | 160      | 180      | 200      | 235      |
|                   | Throw              | 1-3-4  | 2-4-5   | 2-5-6    | 3-4-7    | 4-6-9    | 4-6-10   | 5-6-10   | 6-7-11   | 6-8-12   | 7-9-13   |
|                   | Noise Criteria     | —      | —       | —        | 12       | 18       | 24       | 29       | 33       | 37       | 43       |
| 8" Dia.           | Total Pressure     | .013   | .028    | .050     | .078     | .113     | .153     | .200     | .253     | .313     | .450     |
|                   | Airflow, CFM       | 70     | 105     | 140      | 175      | 210      | 245      | 280      | 315      | 350      | 420      |
|                   | Throw              | 2-2-4  | 2-3-7   | 3-5-9    | 5-7-9    | 6-8-11   | 7-9-12   | 8-10-13  | 9-11-14  | 10-12-15 | 11-13-17 |
|                   | Noise Criteria     | —      | —       | —        | 16       | 22       | 28       | 33       | 37       | 41       | 47       |
| 10" Dia.          | Total Pressure     | .029   | .065    | .115     | .174     | .259     | .344     | .451     | .572     | .707     | 1.022    |
|                   | Airflow, CFM       | 110    | 165     | 220      | 270      | 330      | 380      | 435      | 490      | 545      | 655      |
|                   | Throw              | 3-4-7  | 3-5-10  | 5-7-13   | 7-9-14   | 8-11-15  | 10-12-17 | 11-13-18 | 11-14-18 | 12-15-19 | 13-17-22 |
|                   | Noise Criteria     | —      | —       | 12       | 19       | 25       | 31       | 36       | 41       | 44       | 50       |
| 12" Dia.          | Total Pressure     | .042   | .09     | .162     | .248     | .36      | .493     | .647     | .811     | 1.005    | 1.441    |
|                   | Airflow, CFM       | 160    | 235     | 315      | 390      | 470      | 550      | 630      | 705      | 785      | 940      |
|                   | Throw              | 4-5-10 | 5-8-14  | 8-11-17  | 10-14-19 | 11-15-20 | 14-17-23 | 16-18-25 | 16-19-25 | 18-21-27 | 19-22-29 |
|                   | Noise Criteria     | —      | —       | 15       | 22       | 28       | 34       | 39       | 43       | 47       | 53       |
| 14" Dia.          | Total Pressure     | .056   | .130    | .229     | .356     | .511     | .704     | .916     | 1.156    | 1.425    | 2.045    |
|                   | Airflow, CFM       | 210    | 320     | 425      | 530      | 635      | 745      | 850      | 955      | 1060     | 1270     |
|                   | Throw              | 5-7-14 | 7-11-18 | 11-15-23 | 14-19-26 | 16-21-28 | 19-22-31 | 20-24-33 | 20-26-33 | 23-28-36 | 25-30-38 |
|                   | Noise Criteria     | —      | —       | 17       | 24       | 30       | 36       | 41       | 45       | 49       | 55       |
| 15" Dia.          | Total Pressure     | .071   | .161    | .283     | .446     | .637     | .872     | 1.144    | 1.453    | 1.784    | 2.548    |
|                   | Airflow, CFM       | 245    | 370     | 490      | 615      | 735      | 860      | 985      | 1110     | 1230     | 1470     |
|                   | Throw              | 6-9-17 | 9-13-21 | 14-19-26 | 16-21-30 | 19-24-33 | 23-26-35 | 23-27-38 | 23-28-39 | 25-29-42 | 28-31-42 |
|                   | Noise Criteria     | —      | 10      | 18       | 25       | 31       | 37       | 42       | 46       | 50       | 56       |

#### Performance Notes:

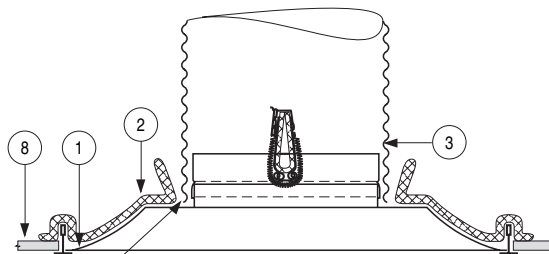
1. Throws are given at 150, 100 and 50 fpm terminal velocities under isothermal conditions.
2. All pressures are in inches w.g.. To obtain static pressure, subtract the velocity pressure from the total pressure.

3. Noise Criteria (NC) values are based upon 10dB room absorption, re 10<sup>-12</sup> watts. Dash (—) in space indicates an Noise Criteria of less than 10.
4. Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2006.

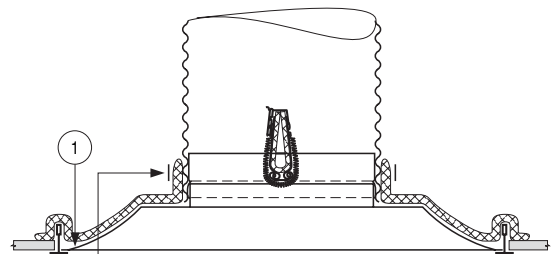
| Neck Size Diameter in Inches | Nominal Overall Face Size | Ak Factor |
|------------------------------|---------------------------|-----------|
| 6                            | 12 x 12                   | .053      |
| 8                            | 12 x 12                   | .065      |
| 6                            | 24 x 24                   | .103      |
| 8                            | 24 x 24                   | .124      |
| 10                           | 24 x 24                   | .158      |
| 12                           | 24 x 24                   | .192      |
| 14                           | 24 x 24                   | .219      |
| 15                           | 24 x 24                   | .243      |



**STEP 1: CEILING GRID LAYOUT**



FOLD BACK NECK FLAPS OF THERMAL BLANKET. SLIP FLEXIBLE DUCT OVER THE NECK OF THE DIFFUSER.



REPLACE THE NECK FLAPS OF THERMAL BLANKET OVER DUCT AND FASTEN DUCT TO NECK OVER BLANKET USING 18 SWG MIN. STEEL WIRE OR STEEL CLAMP IN ACCORDANCE WITH DUCT MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT USE BOLTS, SCREWS OR RIVETS.

**STEP 2: FLEXIBLE DUCT**

**STEP 3: THERMAL BLANKET INSTALLATION**

1. Series 4000 or 4400 Diffuser
2. Ceramic fiber thermal blanket\*
3. Flexible duct
4. Main T-Bar runner

\*Caution: Replace thermal blanket if it is damaged during shipping or installation.

5. 4'-0" (1200) cross T-Bar
6. 2'-0" (600) cross T-Bar
7. Hanger wires
8. Ceiling panel or tile
9. 1'-0" (300) cross T-Bar. See note 9.

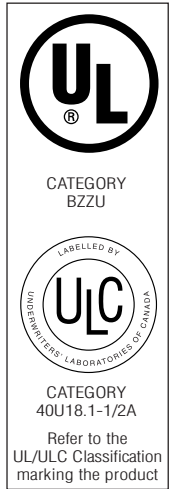
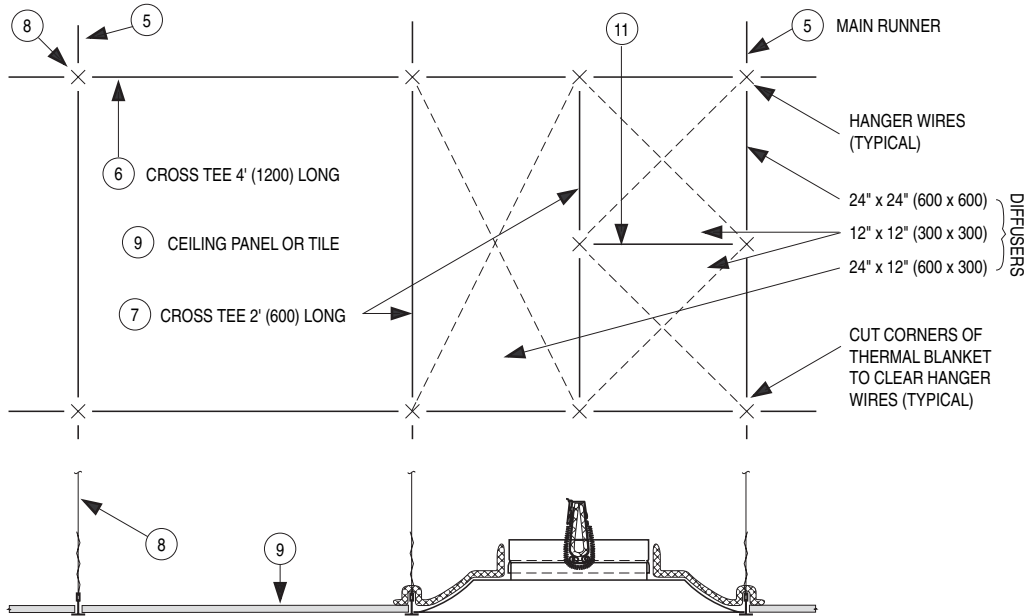
1. Follow carefully steps 1, 2 and 3.
2. Before installing, open damper blades and install link between spring loaded wire clips. Do not bend or deform clips after assembly. If dampers are provided with link tabs instead of wire clips, install link and bend tabs to secure link in position
3. The Flexible Air Duct Connector shall be Class 0 or Class 1 bearing the UL/ULC Classification marking. See the UL "Gas and Oil Equipment Directory" or ULC "List of Equipment and Materials". The maximum length of the flexible duct shall not exceed 14'-0" (4267) in length. No portion of the duct shall rest on the back surface of the ceiling panels or tiles and a minimum of 4" (102) clearance must be maintained. Where the flexible duct must be supported, use steel straps and 12 swg steel hanger wires.
4. The end tabs of the 2'-0" (600) Cross T-bar shall be bent back against the web of the 4'-0" (1200) Cross T-bar. The 4'-0" (1200) Cross T-bars must have slots in the web for connection of the 2'-0" (600) Cross T-bar.
5. Use 12 swg galvanized steel hanger wires to independently support the ceiling T-bars to the structural members of the floor or roof above at the four corners of the diffuser. Ensure hanger wires are plumb and straight.
6. Maximum neck size of Series 4000 and 4400 Ceiling Air Diffuser is 14" (356) diameter.
7. Caution should be observed so that the Flexible Air Duct Connector does not interfere with the operation of the Integral Classified Ceiling Damper of the Ceiling Air Diffuser Assembly.
8. No diffusers shall be located in an adjacent 24" x 48" (600 x 1200) ceiling grid module.
9. Series 4000 and 4400 Ceiling Air Diffuser Assemblies are for use in lieu of the hinged blade, sheet metal damper in steel ducts with steel diffusers or grilles as specified in the "Design Information Section - General" and in the individual floor and roof ceiling design(s) being used, as illustrated and described in the current U.L. "Fire Resistance Directory" or ULC "List of Equipment and Materials".
10. Fire resistive designs must cover UL/ULC Classified Ceiling Grid Members with appropriate cross tee sizes and slots in cross tees.

The following manufacturers currently supply 1'-0" (300) long cross tees that are UL and/or ULC Classified:

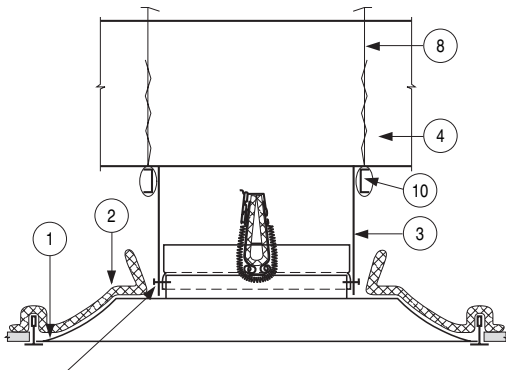
- Armstrong World Industries Inc.
- CGC Interiors, Division of CGC Inc.
- Chicago Metallic Corp.
- USG Interiors Inc.

Cartons of Grid Members shall be of the same type and bear the UL and/or ULC Classification marking.



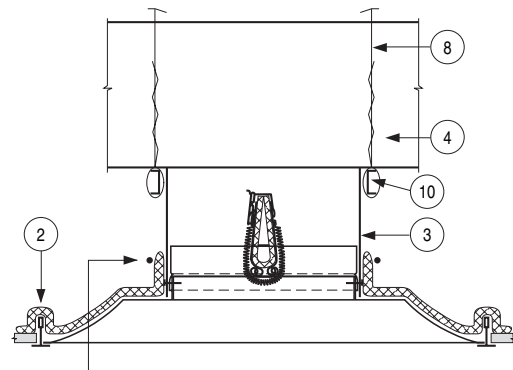


**STEP 1: CEILING GRID LAYOUT**



FOLD BACK NECK FLAPS OF THERMAL BLANKET, SLIP ON STEEL DUCT DROP AND FASTEN TO DIFFUSER NECK WITH FOUR #8 SHEET METAL SCREWS. SCREWS MUST NOT INTERFERE WITH THE CLOSING OF THE INTEGRAL DAMPER BLADES.

**STEP 2: DUCT DROP INSTALLATION**



FASTEN NECK FLAPS OF THERMAL BLANKET USING 18 SWG STEEL WIRE.

**STEP 3: THERMAL BLANKET INSTALLATION**

1. Series 4000 or 4400 Diffuser
2. Ceramic fiber thermal blanket\*
3. Steel duct drop
4. Steel duct
5. Main T-Bar runner

\*Caution: Replace thermal blanket if it is damaged during shipping or installation.

6. 4'-0" (1200) cross T-Bar
7. 2'-0" (600) cross T-Bar
8. Hanger wires
9. Ceiling panel or tile
10. Support channels
11. 1'-0 (300) cross T-Bar. See note 9.

1. Follow carefully steps 1, 2 and 3.
2. Before installing, open damper blades and install link between spring loaded wire clips. Do not bend or deform clips after assembly. If dampers are provided with link tabs instead of wire clips, install link and bend tabs to secure link in position
3. Use 12 swg galvanized steel hanger wires to independently support the T-bar grid members and the support channels to the structural members of the floor or roof above at the four corners of the diffuser. Ensure hanger wires are plumb and straight.
4. When installing the Ceiling Air Diffuser in duct drop, use #8 by 1/2" (13) long sheet metal screws - 4 per diffuser. The screws shall not interfere with the closing of the Integral Classified Ceiling Damper of the Ceiling Air Diffuser Assembly.
5. Support the duct with 2 - 16 gauge cold rolled steel support channels, 1 1/2" (38) deep with 1/2" (13) flanges. Place the support channels at the bottom of the duct adjacent to both sides of the duct drop.
6. Maximum neck size of Series 4000 and 4400 Ceiling Air Diffuser is 14" (356) diameter.
7. The clearance between the Ceiling Air Diffuser neck and the duct drop shall be 1/8" (3) maximum.
8. No diffusers shall be located in an adjacent 24" x 48" (600 x 1200) ceiling grid module.
9. Series 4000 and 4400 Ceiling Air Diffuser Assemblies are for use in lieu of the hinged blade, sheet metal damper in steel ducts with steel diffusers or grilles as specified in the "Design Information Section - General" and in the individual floor and roof ceiling design(s) being used, as illustrated and described in the current UL "Fire Resistance Directory" or ULC "List of Equipment and Materials".
10. Fire resistive designs must cover UL/ULC Classified Ceiling Grid Members with appropriate cross tee sizes and slots in cross tees.

The following manufacturers currently supply 1'- 0" (300) long cross tees that are UL and/or ULC Classified:

- Armstrong World Industries Inc.
- CGC Interiors, Division of CGC Inc.
- Chicago Metallic Corp.
- USG Interiors Inc.

Cartons of Grid Members shall be of the same type and bear the UL and/or ULC Classification marking.