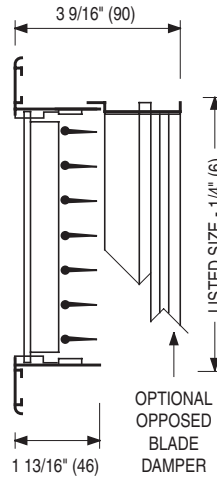
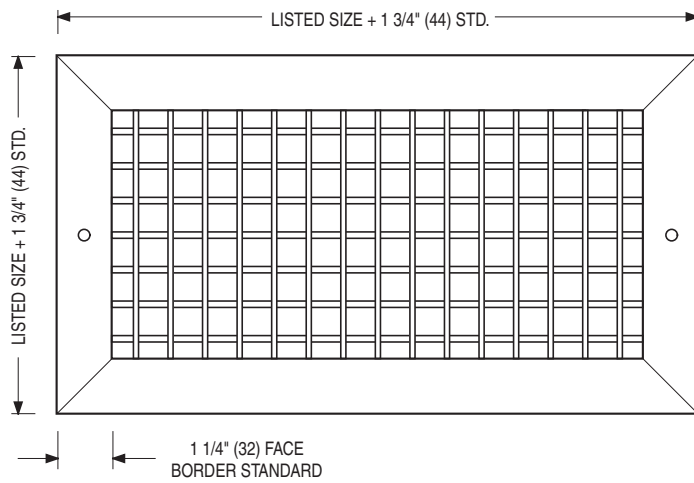




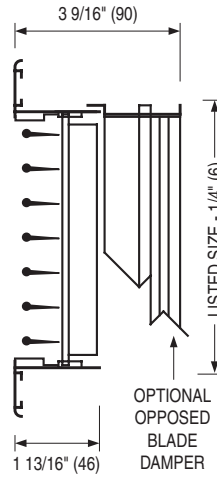
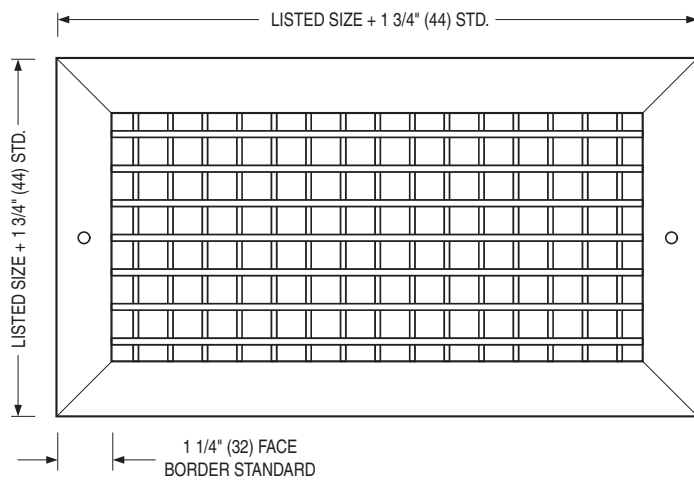
ALUMINUM SUPPLY GRILLES & REGISTERS
DOUBLE DEFLECTION • ADJUSTABLE
MODELS: 51DV(-O) AND 51DH(-O)



Frame/Border Type S:
Surface Mount

Model 51DV
Double Deflection Grille
Vertical Front Blades

Model 51DV-O
Double Deflection Register
Vertical Front Blades
(Includes O. B. Damper)



Frame/Border Type S:
Surface Mount

Model 51DH
Double Deflection Grille
Horizontal Front Blades

Model 51DH-O
Double Deflection Register
Horizontal Front Blades
(Includes O. B. Damper)

DESCRIPTION:

1. Construction: Extruded aluminum heavy gauge frame mechanically interlocked with hairline mitered corners for strength. Two sets of perpendicular extruded aluminum 'teardrop' blades on 3/4" (19) centers provide air pattern control in two planes. Blades are individually pivoted to ensure positive positioning when adjusted to desired deflection setting.
2. Optional roll-formed steel opposed blade damper has a screw driver slot operator accessible through face of register.
3. Minimum size is 4" x 4" (102 x 102).
Maximum size one piece construction is 48" x 48" (1219 x 1219).
4. Type S Surface Mount standard frame has a 1 1/4" (32) face border and a 1" (25) overlap margin. Available in multiple sections with mullions - see submittal OG-1-A.
5. Standard fastening is Type A countersunk screw holes.
6. Standard finish is AW Appliance White.

OPTIONS:

1. Finish:
 - SA Satin (clear) anodized (Type S and NF only)
 - SP Special _____
2. Fastening (Type S):
 - Type C Concealed mounting straps
 - Type D Concealed screw holes in neck
 - Type N None.
3. OA Aluminum opposed blade damper.
4. Type NF Narrow frame with 1" (25) face border and a 3/4" (19) overlap margin. O.A. flange to flange dim. = listed size + 1 1/4" (32).
5. PF Plaster sub-frame
6. IS Insect screen
7. Other _____

SCHEDULE TYPE:

PROJECT:

ENGINEER:

CONTRACTOR:

Page 1 of 2
Dimensions are in inches (mm).

| DATE | B SERIES | SUPERSEDES | DRAWING NO. |
|------------|----------|-------------|-------------|
| 9 - 1 - 20 | 5100 | 9 - 24 - 19 | 5100-2 |

Panel Mounted/Ceiling Modules

- Border Type PLS: Steel Lay-in Panel**
- Border Type PLA: Aluminum Lay-in Panel**

The grille or register is mounted in an extended panel to suit standard T-Bar Lay-in type ceilings.

- Border Type FPS: Steel Finline[®] Panel**
- Border Type FPA: Aluminum Finline[®] Panel**

The grille or register is mounted in an extended panel that will fit a 9/16" (14) narrow regressed (bolt slot) T-Bar ceiling grid or 9/16" (14) Flat T-Bar with tegular ceiling tile.

- Border Type SPS: Steel Spline Panel**
- Border Type SPA: Aluminum Spline Panel**

The grille or register is mounted in an extended panel to suit spline type ceiling modules. CM 24" x 24" (600 x 600) only.

- Border Type MPS: Steel Metal Pan Panel**
- Border Type MPA: Aluminum Metal Pan Panel**

The grille or register is mounted in an extended panel to suit metal pan ceilings that have snap-in type ceiling modules. CM 24" x 24" (600 x 600) only.

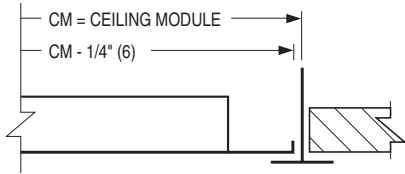
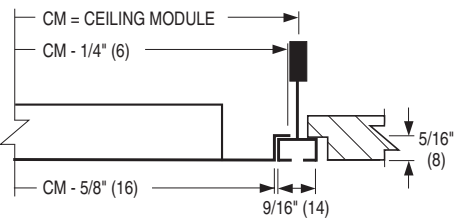
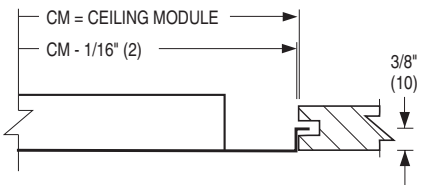
- Border Type TPS: Steel Tegular Panel**
- Border Type TPA: Aluminum Tegular Panel**

The grille or register is mounted in a panel that will extend below a 15/16" (24) Flat T-Bar ceiling grid.

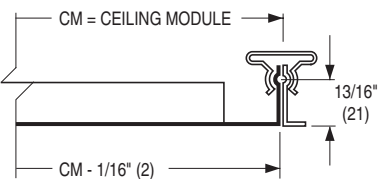
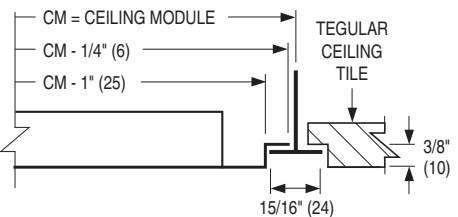
Available Border Type PL, FP and TP Ceiling Module Sizes

| Ceiling Module | |
|----------------------|-------------------|
| Imperial Units (in.) | Metric Units (mm) |
| 12 x 12 | 300 x 300 |
| 24 x 12 | 600 x 300 |
| 36 x 12 | 900 x 300 |
| 48 x 12 | 1200 x 300 |
| 20 x 20 | 500 x 500 |
| 24 x 24 | 600 x 600 |
| 36 x 24 | 900 x 600 |
| 48 x 24 | 1200 x 600 |

Maximum grille neck size is CM Ceiling Module – 3" (76).

Type PL (S or A) Lay-in Panel

Type FP (S or A) Finline[®] Panel

Type SP (S or A) Spline Panel


Note: Splines on two opposite sides.

Type MP (S or A) Metal Pan Panel

Type TP (S or A) Tegular Panel

SCHEDULE TYPE:
PROJECT:
ENGINEER:
CONTRACTOR:

Page 2 of 2
 Dimensions are in inches (mm).

DATE
B SERIES
SUPERSEDES
DRAWING NO.

9 - 1 - 20

5100

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