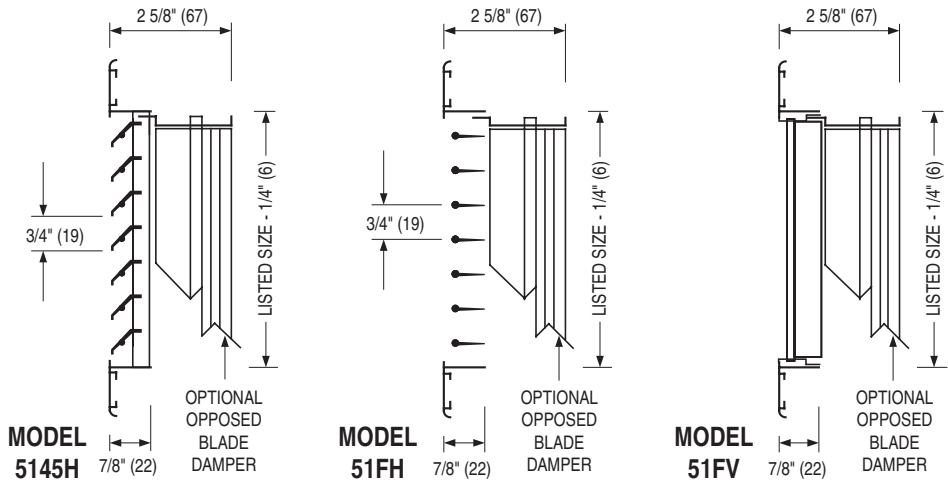
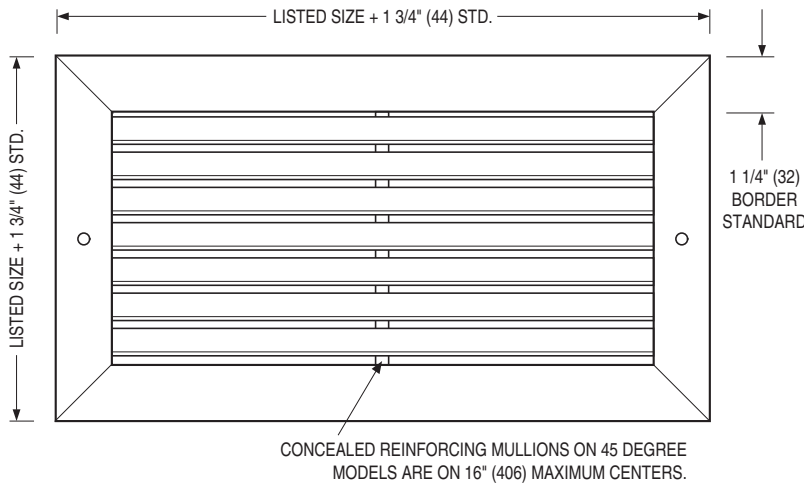




**ALUMINUM RETURN GRILLES & REGISTERS**  
**FIXED BLADES • 3/4" (19) SPACING**  
**MODELS: 5145H(-O), 5145V(-O), 51FH(-O)**  
**AND 51FV(-O)**



- Frame/Border Type S:**  
Surface Mount
- Model 5145H**  
Single Deflection Grille  
Fixed 45° Horizontal Blades
- Model 5145H-O**  
Single Deflection Register  
Fixed 45° Horizontal Blades  
(Includes O. B. Damper)
- Model 5145V**  
Single Deflection Grille  
Fixed 45° Vertical Blades
- Model 5145V-O**  
Single Deflection Register  
Fixed 45° Vertical Blades  
(Includes O. B. Damper)
- Model 51FH**  
Single Deflection Grille  
Fixed 0° Horizontal Blades
- Model 51FH-O**  
Single Deflection Register  
Fixed 0° Horizontal Blades  
(Includes O. B. Damper)
- Model 51FV**  
Single Deflection Grille  
Fixed 0° Vertical Blades
- Model 51FV-O**  
Single Deflection Register  
Fixed 0° Vertical Blades  
(Includes O. B. Damper)

**DESCRIPTION:**

1. Construction: Extruded aluminum.  
Rigid heavy-gauge frame mechanically interlocked with reinforced mitered corners. Rigid streamlined shape solid blades on 3/4" (19) centers are fixed at 0 or 45 degrees to match and compliment the supply grilles and registers. 45 degree models utilize a concealed rear reinforcing mullion and utilize a single blade pack that produces a continuous louvered blade appearance. 0 degree models utilize a visible face mullion when blade length exceeds 16" (406).
2. Optional roll-formed steel opposed blade damper has a screwdriver 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 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 3  
 Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
9 - 1 - 20	5100	10 - 1 - 19	5100-3

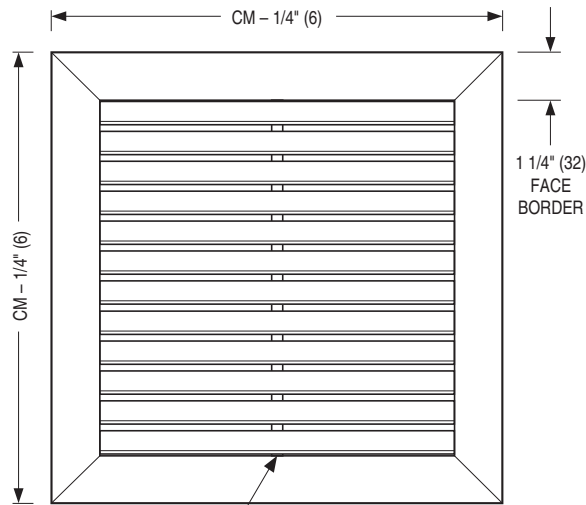


**ALUMINUM RETURN GRILLES & REGISTERS**  
**FIXED BLADES • 3/4" (19) SPACING**  
**MODELS: 5145H(-O), 5145V(-O), 51FH(-O)**  
**AND 51FV(-O)**

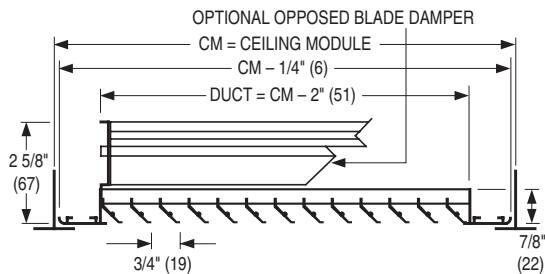
**Full Face / Ceiling Modules**

**Frame/Border Type L:**

Lay-in T-Bar Mount



CONCEALED REINFORCING MULLIONS ON 45° MODELS.

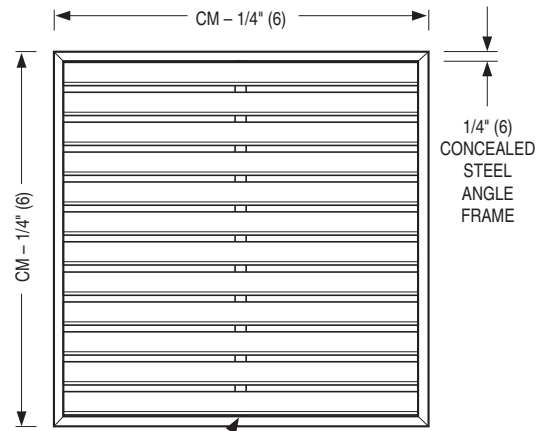


**Model 5145H shown**  
Horizontal Blades (side view)

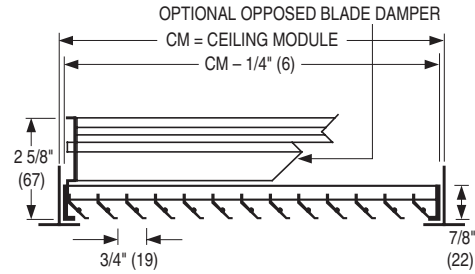
**Frame/Border Type A:**

**Concealed Angle Frame Lay-in T-Bar**

(non-ducted applications)



CONCEALED REINFORCING MULLIONS ON 45° MODELS.



**Model 5145H shown**  
Horizontal Blades (side view)

**DESCRIPTION:**

1. Ordered by ceiling module size.
2. Type L frame use standard 1 1/4" (32) face frame/border and shows a partial reveal when installed in standard 15/16" (24) T-Bar. Duct size is 2" (51) smaller than ceiling module size.
3. Type A frame is a steel 1/4" (6) angle frame and is concealed when installed in T-Bar.

**Available Border Type L and A Ceiling Module Sizes**

Imperial Modules		Metric Modules
Imperial Units (in.)	Metric Units (mm)	S.I. Units (mm)
12 x 12	305 x 305	300 x 300
24 x 12	610 x 305	600 x 300
36 x 12	914 x 305	900 x 300
48 x 12	1219 x 305	1200 x 300
20 x 20	508 x 508	500 x 500
24 x 24	610 x 610	600 x 600
36 x 24	914 x 610	900 x 600
48 x 24	1219 x 610	1200 x 600

**SCHEDULE TYPE:**

**PROJECT:**

**ENGINEER:**

**CONTRACTOR:**

Page 2 of 3  
Dimensions are in inches (mm).

DATE	B SERIES	SUPERSEDES	DRAWING NO.
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**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<sup>®</sup> Panel**
- Border Type FPA: Aluminum Finline<sup>®</sup> 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.

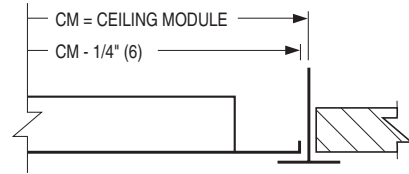
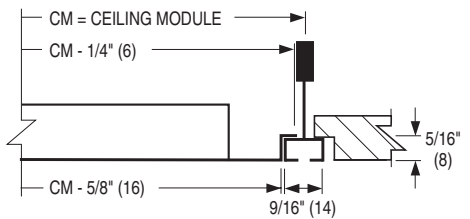
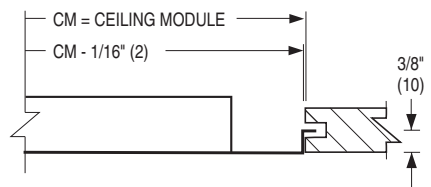
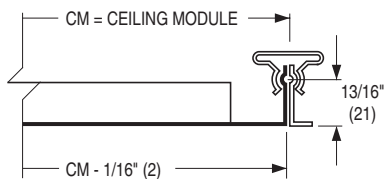
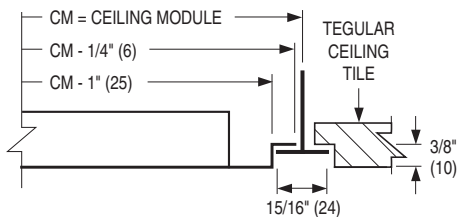
- Border Type TPS: Steel Tegular Panel**
- Border Type TPA: Aluminum Tegular Panel**

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<sup>®</sup> Panel**

**Type SP (S or A) Spline Panel**

**Type MP (S or A) Metal Pan Panel**

**Type TP (S or A) Tegular Panel**

**SCHEDULE TYPE:**
**PROJECT:**
**ENGINEER:**
**CONTRACTOR:**

Page 3 of 3  
 Dimensions are in inches (mm).

**DATE**
**B SERIES**
**SUPERSEDES**
**DRAWING NO.**

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5100

10 - 1 - 19

5100-3