



# Grilles, Registers and Diffusers

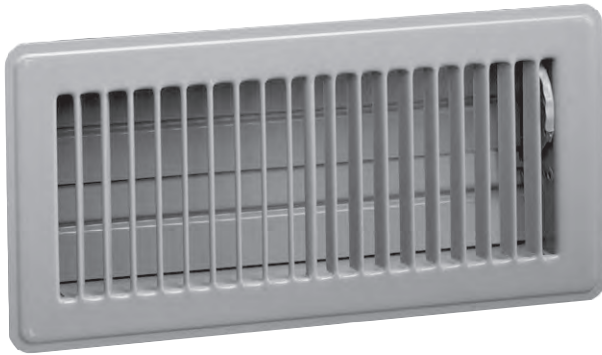
Edition 11





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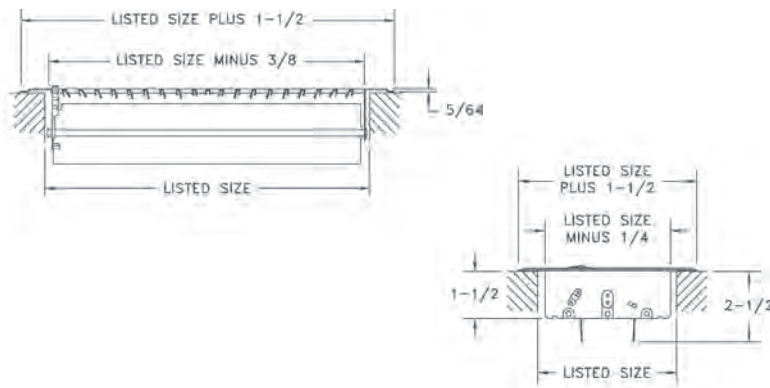
## Model 800

### Stamped Floor Register

**Design** — Model 800 is a stamped, straight-blade floor register.

**Features** — Toe-operated multi-louver damper. Heavy gauge, stamped face.

**Construction** — Steel. Brown finish standard. Bright White finish optional.



#### 800 Available Sizes (in.)

| Size   | Free Area<br>Sq. Inches |
|--------|-------------------------|
| 2 x 10 | 15                      |
| 2 x 12 | 17                      |
| 2 x 14 | 20                      |
| 4 x 8  | 22                      |
| 4 x 10 | 27                      |
| 4 x 12 | 32                      |
| 4 x 14 | 37                      |
| 6 x 10 | 39                      |
| 6 x 12 | 48                      |
| 6 x 14 | 56                      |



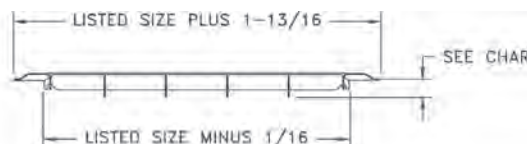
## Model 825

### Return Floor Grille

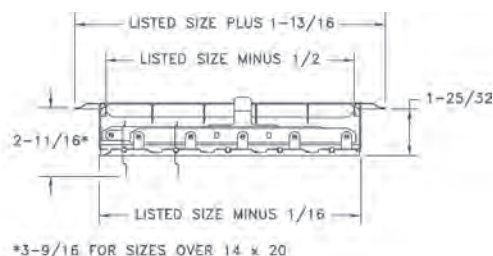
**Design** — Model 825 is a heavy-gauge bar return.

**Features** — Heavy-gauge, interlocking bars on 1/2" and 2" centers.

**Construction** — Steel. Brown finish standard. Bright White finish optional.



| SIZE<br>WIDTH | SIZE<br>LENGTH | MAXIMUM<br>DEPTH |
|---------------|----------------|------------------|
| 4 THRU 14     | 6 THRU 30      | 21/32            |
| 14 THRU 14    | 32 THRU 36     | 25/32            |
| 16 THRU 18    | 16 THRU 36     |                  |
| 20 THRU 30    | 20 THRU 36     | 1-13/32          |



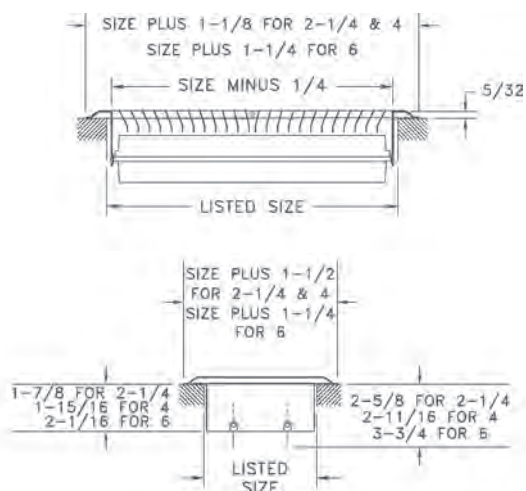
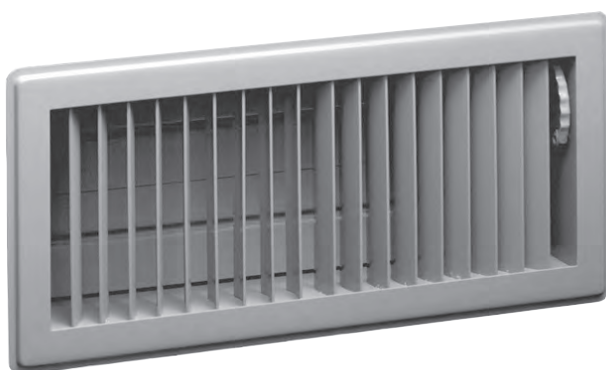
## Model 830

### Floor Register

**Design** — Model 830 is a heavy-duty floor register.

**Features** — Toe-operated, multi-louver damper.

**Construction** — Steel. Brown finish standard. Bright White finish optional.



## Model 850

### Deluxe Floor Register

**Design** — Model 850 is a heavy-duty floor register with individually welded diffusion vanes.

**Features** — Toe-operated multi-louver damper. Heavy gauge steel face. High traffic.

**Construction** — Steel. Brown finish standard. Bright White finish optional.

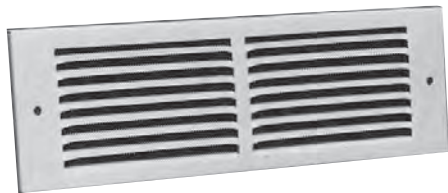
#### 850 Available Sizes (in.)

| Size   | Free Area<br>Sq. Inches |
|--------|-------------------------|
| 2 x 10 | 15                      |
| 2 x 12 | 19                      |
| 2 x 14 | 22                      |
| 4 x 10 | 29                      |
| 4 x 12 | 35                      |
| 4 x 14 | 40                      |
| 6 x 10 | 44                      |
| 6 x 12 | 53                      |
| 6 x 14 | 60                      |



## Model 827

### Toe-Space Grille



**Design** — Model 827 is a stamped, straight-blade toe-space grille.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Two mounting holes.

**Construction** — Steel. Bright White finish standard.

## Model 875

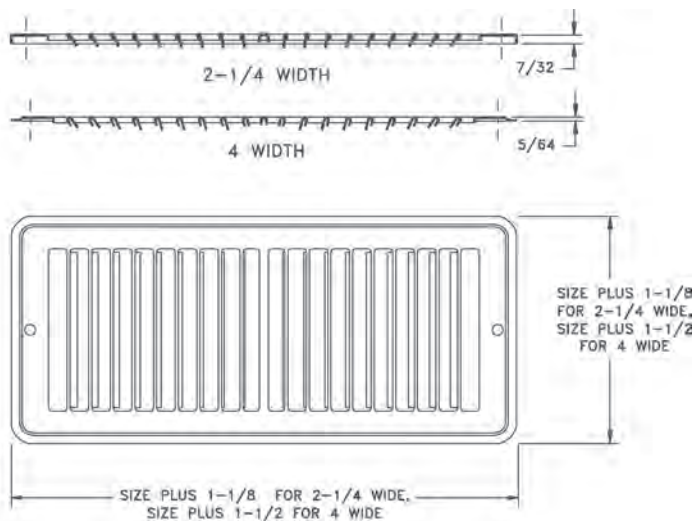
### Toe-Space Grille



**Design** — Model 875 is a stamped, straight-blade toe-space grille.

**Features** — Heavy-gauge stamped face. Two mounting holes.

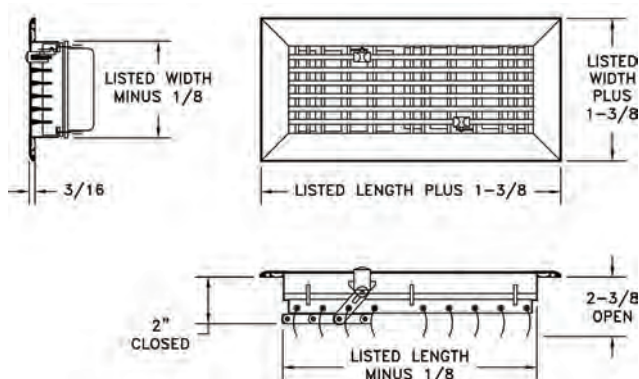
**Construction** — Steel. Brown finish standard. Bright White finish optional.



#### 875 Available Sizes (in.)

| Size   | Free Area<br>Sq. Inches |
|--------|-------------------------|
| 10 x 2 | 15                      |
| 12 x 2 | 17                      |
| 14 x 2 | 20                      |
| 10 x 4 | 27                      |
| 12 x 4 | 32                      |
| 14 x 4 | 37                      |





## Model AL833

### Extruded Aluminum Floor Diffuser

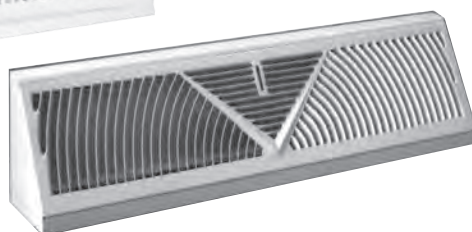
**Design** — Model AL833 is a heavy-duty floor diffuser with an adjustable air pattern.

**Features** — Comes with dual multi-louver valve and nylon slide valve operators. 1/2" bar spacing. For sizes not listed, see Model AL2500FF Series.

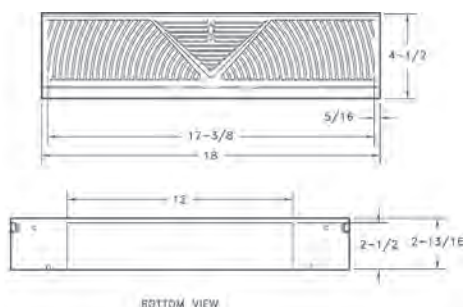
**Construction** — Aluminum. Extruded aluminum margins. Clear anodized finish.



15" face



18" face



| Catalog Number | Size | Free Area Sq. Inches | Overall Length | Height | Base Projection |
|----------------|------|----------------------|----------------|--------|-----------------|
| 470            | 15"  | 32                   | 15             | 4-1/2  | 2-3/4           |
| 470            | 18"  | 38                   | 18             | 4-1/2  | 2-3/4           |
| 471            | 18"  | 38                   | 18             | 4-1/2  | 2-3/4           |

## Model 470

### Baseboard Diffuser

**Design** — Unique fan-shaped face pattern of Model 470 is designed to blanket wall or window area from baseboard installation.

**Features** — Snap-in face removes for easy installation and cleaning.

**Construction** — Steel. Brown or Bright White finish available.

## Model 471

### Baseboard Return

**Design** — Matching baseboard return product to Model 470 supply.

*No Performance Data Available - Model 471*



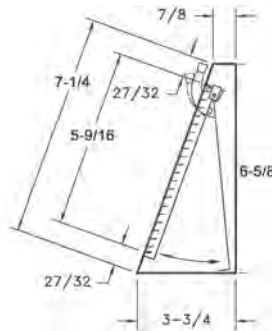
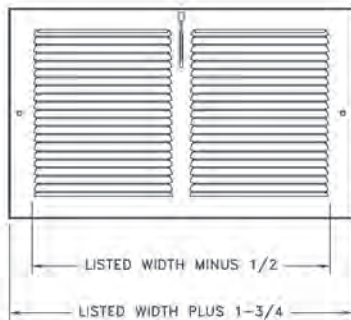
## Model 649

### Baseboard Register

**Design** — Model 649 is a stamped, straight-blade baseboard register.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Adjustable plate-style damper. Two mounting holes.

**Construction** — Steel. Bright White finish standard.



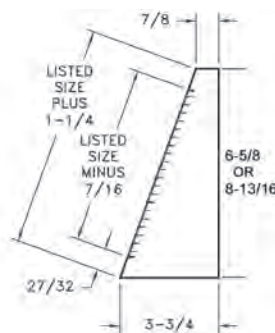
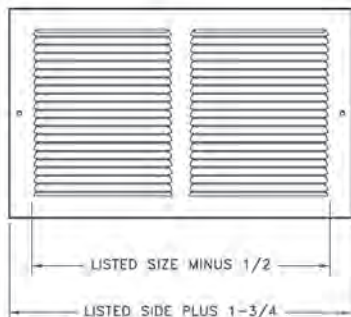
## Model 652

### Baseboard Return Grille

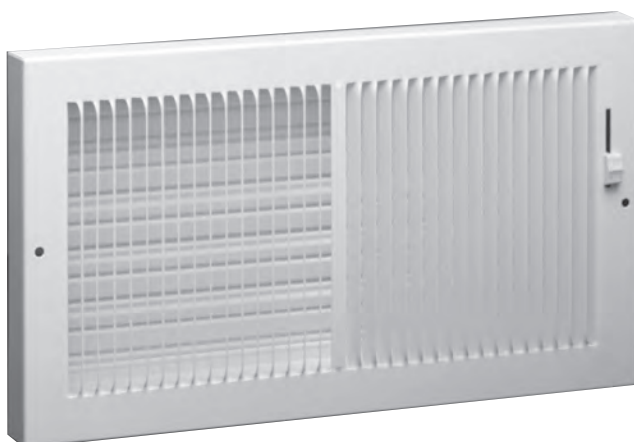
**Design** — Model 652 is a stamped, straight-blade baseboard return grille.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Two mounting holes.

**Construction** — Steel. Bright White finish standard.







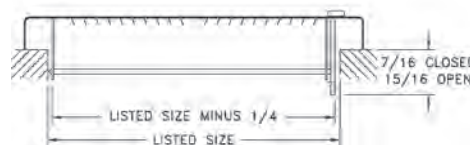
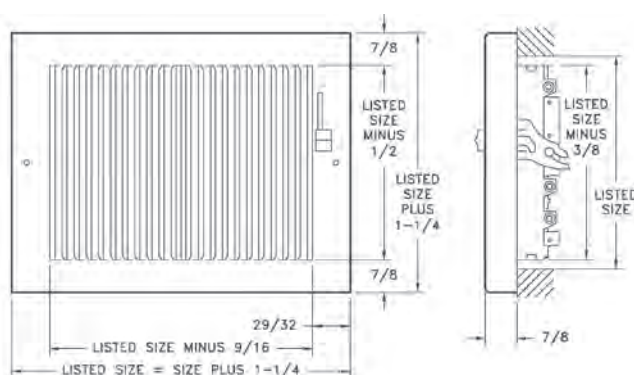
## Model 667

### Baseboard Register

**Design** — Model 667 is a stamped, straight-blade baseboard supply grille.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Two mounting holes. Multi-louver damper.  $\frac{7}{8}$ " turnback.

**Construction** — Steel. Bright White finish standard.



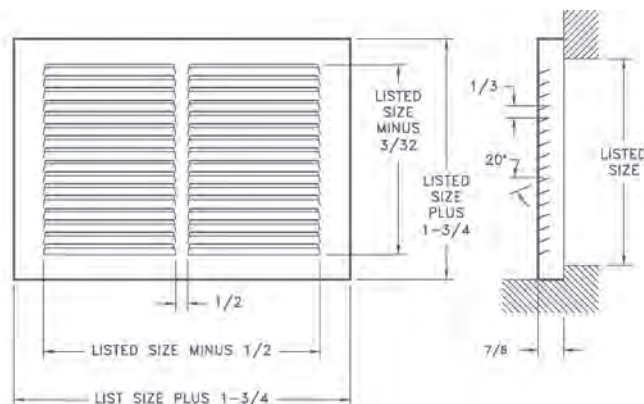
## Model 671

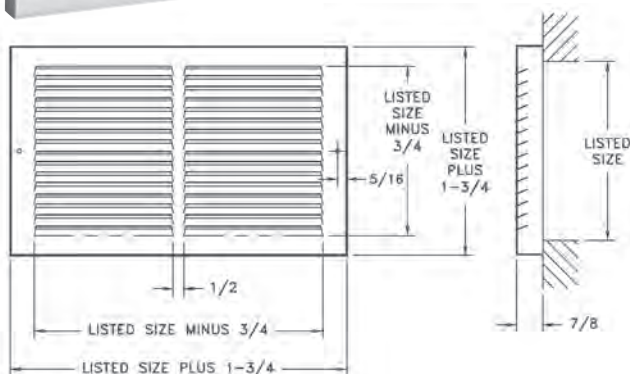
### Baseboard Return Grille

**Design** — Model 671 is a stamped, straight-blade baseboard return grille.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees.  $\frac{7}{8}$ " margin turnback.

**Construction** — Steel. Bright White finish standard.





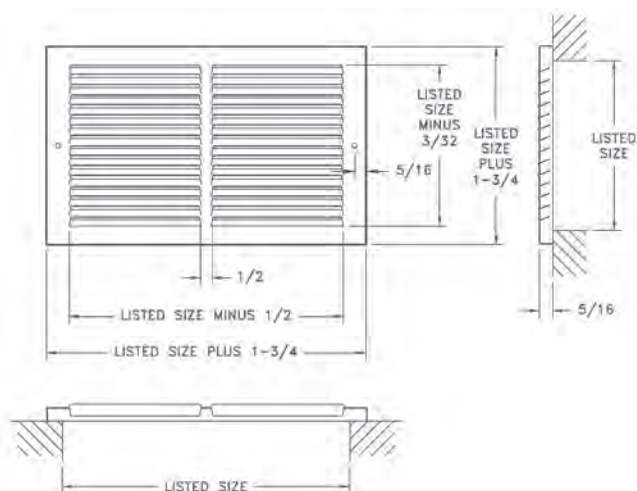
## Model 60GH7

### Stamped-Face Baseboard Return Grille

**Design** — Model 60GH7 is a stamped, straight-blade return for baseboard applications.

**Features** — One-piece steel construction.  $\frac{7}{8}$ " margin turnback. Fins spaced on  $\frac{1}{2}$ " centers and at 40 degrees.

**Construction** — Steel. Bright White finish standard.



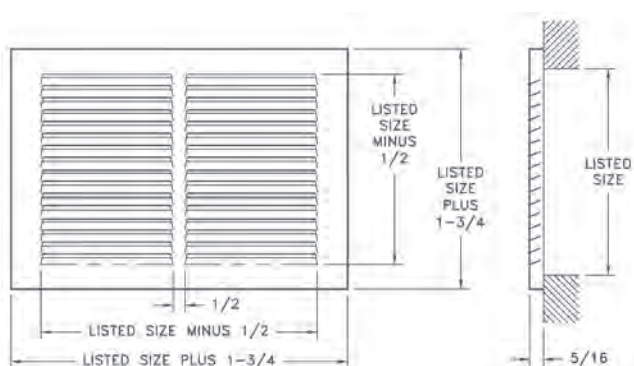
## Model 60GH AL60GH

### Stamped-Face Return Grille

**Design** — Model 60GH is a stamped, straight-blade return.

**Features** — Fins spaced on  $\frac{1}{2}$ " centers and at 40 degrees.

**Construction** — Steel (60GH) or Aluminum (AL60GH). Bright White finish standard.



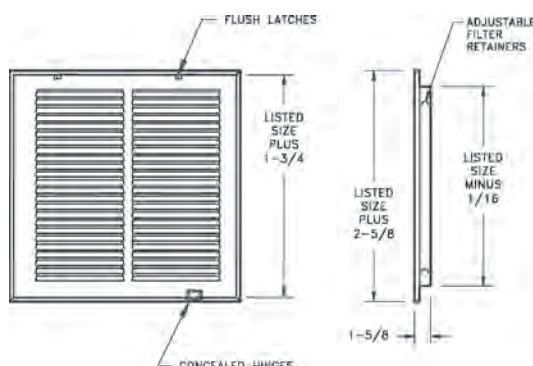
## Model 63GH

### Stamped-Face Return Grille

**Design** — Model 63GH is a stamped-blade return for baseboard applications.

**Features** — One-piece steel construction.  $\frac{5}{16}$ " margin turnback. Fins spaced  $\frac{1}{3}$ " and set at 20 degrees.

**Construction** — Steel. Bright White finish standard.



## Model 60GHFF

### Stamped-Face Return Grille with Filter Frame

**Design** — Acts as a holder for the filter and/or as an access to small air-handling units. Hinged on the bottom.

**Features** — Fins spaced on  $\frac{1}{2}$ " centers at 40 degrees. One-inch filter frame is standard. Standard fastening method is thumb latch. Removable face. Also available for T-Bar applications.

**Construction** — Steel. Bright White finish standard.



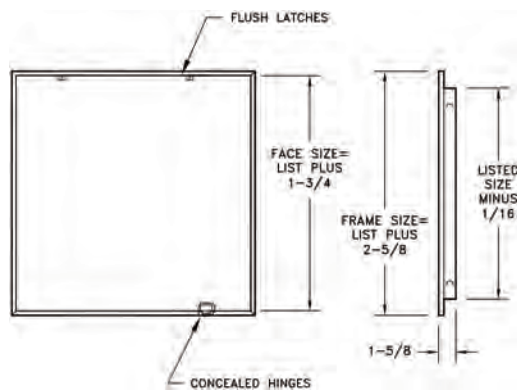
## Model LAD

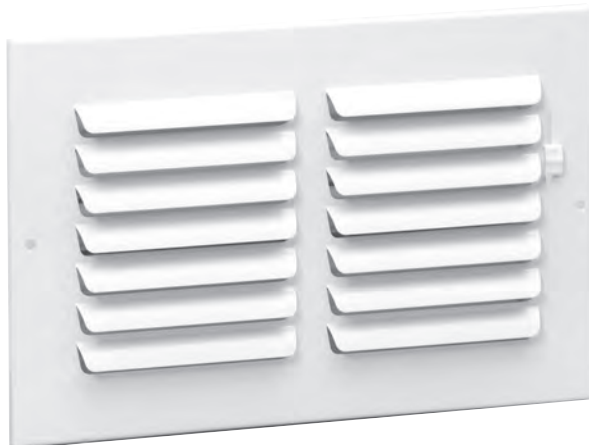
### Access Door

**Design** — 22 gauge face, 24 gauge frame

**Features** — Standard fastening method is thumb latch. Removable face.

**Construction** — Steel. Bright White finish standard.





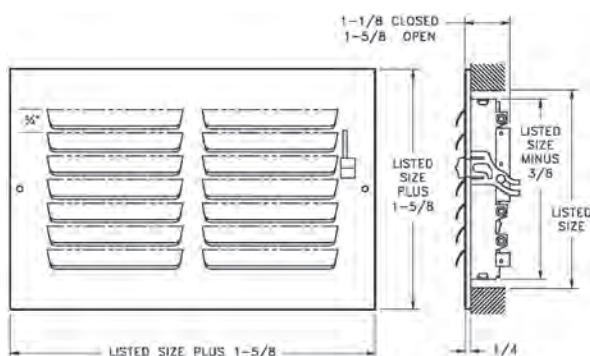
## Series 500 AL500

Stamped, Curved-Blade Supply Register with Multi-Louver Damper

**Design** — Series 500 is a stamped, curved-blade supply with multi-louver damper for ceiling or sidewall installation.

**Features** — Stamped one-piece face with multi-louver steel damper for volume control. Available in five airflow patterns. 3/4" spacing.

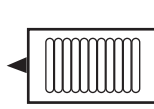
**Construction** — Steel or aluminum. White finish standard.



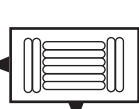
501



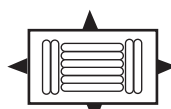
502H



502 Standard



503

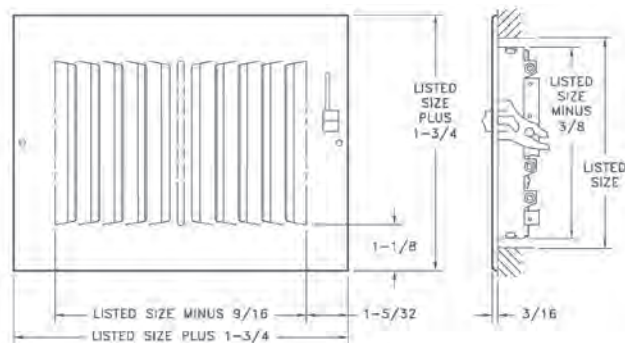


504





602



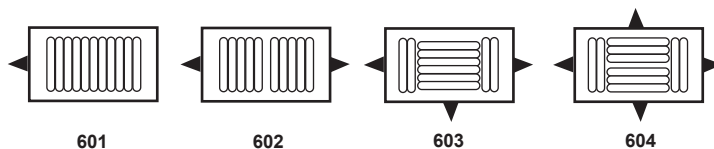
## Series 600 AL600

Stamped, Lanced-Blade  
Supply Register with Multi-  
Louver Damper

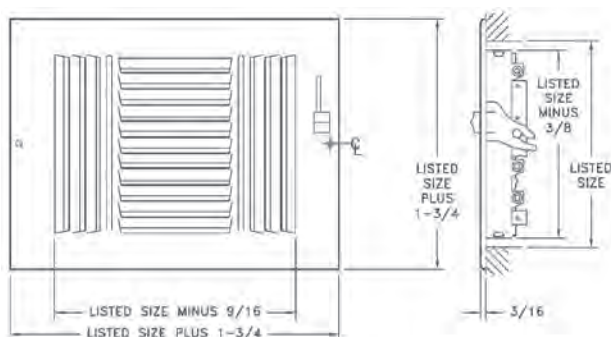
**Design** — Series 600 is a stamped, straight-blade supply with multi-louver damper for ceiling or sidewall application.

**Features** — Stamped, one-piece face with multi-louver damper for volume control. Fins spaced on  $1/2"$  centers at 40 degrees.

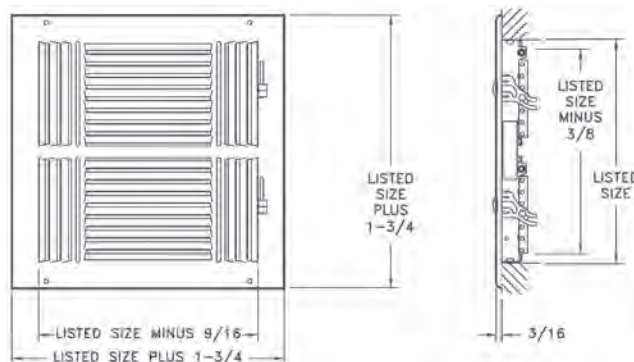
**Construction** — Steel or aluminum. White finish standard.



603



604





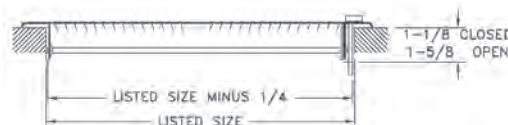
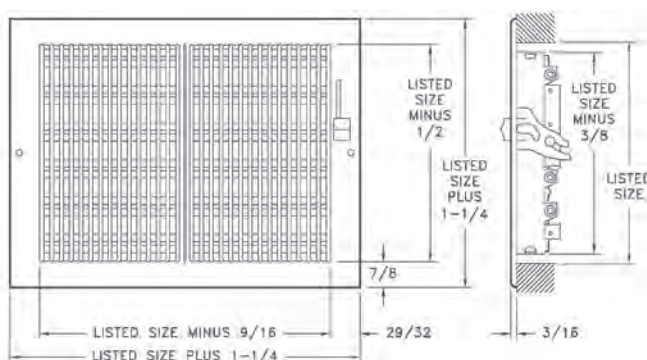
## Model 632

### Stamped Ceiling/Wall Register

**Design** — Model 632 is a stamped, straight-blade register for ceiling or sidewall applications.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Multi-louver damper. Two-way deflection.

**Construction** — Steel. Bright White finish standard.



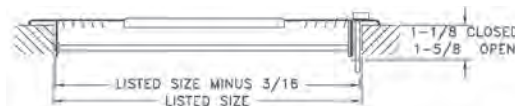
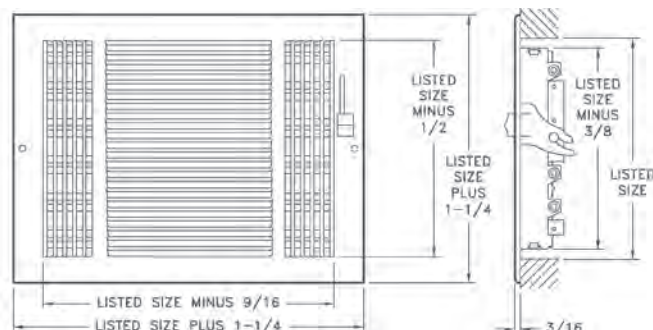
## Model 633

### Stamped Ceiling/Wall Register

**Design** — Model 633 is a stamped, straight-blade register for ceiling or sidewall applications.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Multi-louver damper. Three-way deflection.

**Construction** — Steel. Bright White finish standard.





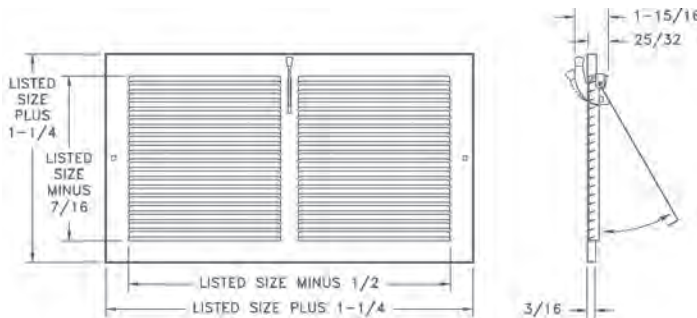
## Model 653

### Stamped Ceiling/Wall Register

**Design** — Model 653 is a stamped, straight-blade register for sidewall applications.

**Features** —  $\frac{1}{3}$ " spaced fins set at 20 degrees. Adjustable plate-style damper.

**Construction** — Steel. Bright White finish standard.



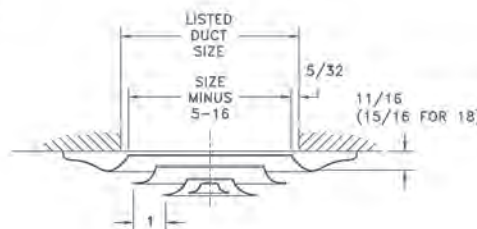
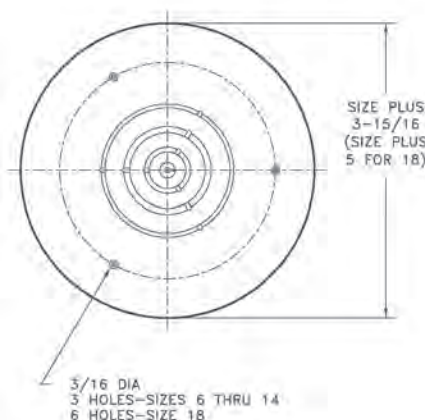
## Model 150

### Round Ceiling Diffuser

**Design** — Model 150 is a multi-cone, round ceiling diffuser. Outer ring mounts flush to ceiling.

**Features** — Step-down diffuser rings deflect air pattern 360 degrees. Duct ring with damper (Model 155) also available for use with Model 150.

**Construction** — Steel. Bright White finish standard.





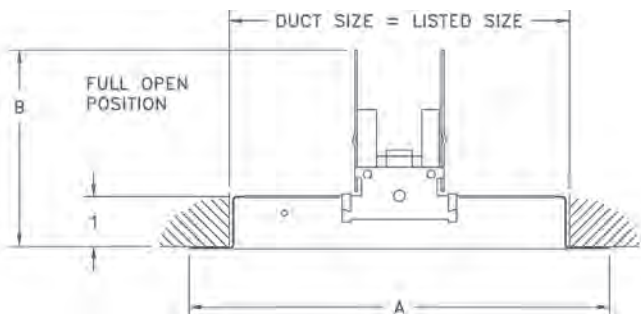
# Model 155

Duct Ring  
with Butterfly Damper

**Design** — Model 155 is a Duct Ring with integral Butterfly Damper for use with Model 150 Round Ceiling Diffuser.

**Features** — Pre-drilled damper and diffuser mounting holes.

**Construction** — All-steel construction. Brown finish standard.



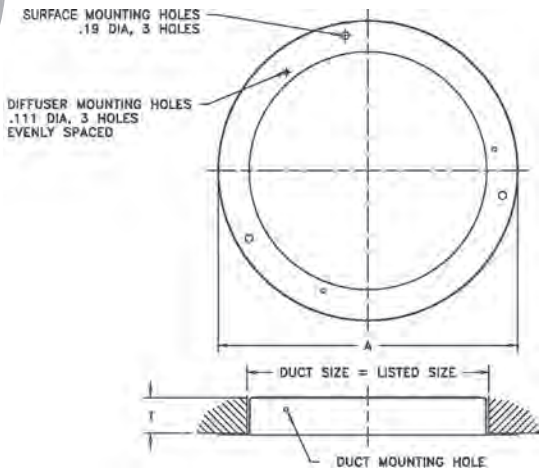
| SIZE | A       | B       |
|------|---------|---------|
| 6    | 7-1/2   | 3-11/16 |
| 8    | 9-1/2   | 4-11/16 |
| 10   | 10-7/8  | 5-11/16 |
| 12   | 12-7/8  | 6-11/16 |
| 14   | 14-7/8  | 7-11/16 |
| 18   | 18-3/16 | 9-11/16 |



# Model 156

Duct Ring

**Design** — Duct ring only for installation of Model 150 Round Ceiling Diffuser.



| SIZE | A       |
|------|---------|
| 6    | 7-1/2   |
| 8    | 9-1/2   |
| 10   | 10-7/8  |
| 12   | 12-7/8  |
| 14   | 14-7/8  |
| 18   | 18-3/16 |



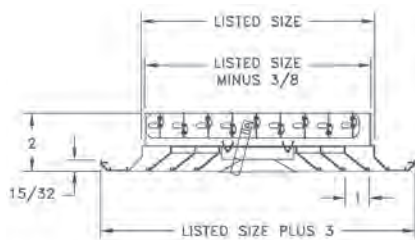
## Series AL160

Square Ceiling Diffuser with Multi-Louver or Opposed-Blade Damper

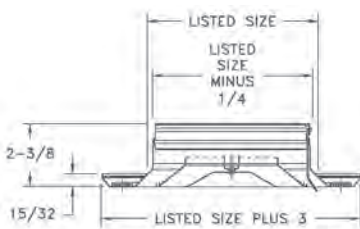
**Design** — Provides one-, two-, three- or four-way air diffusion. Used in sidewall and ceiling installations. Inconspicuous fingertip lever for air volume control.

**Features** — Face mount for easy installation; cores flush with margin. Opposed-blade (OBD) or Multi-louver (ML) damper. Sizes 6" to 14".

**Construction** — All extruded aluminum construction. Bright White finish standard.



**AL164OBD**



**AL164ML**



**AL161 One-Way**



**AL162 Two-Way**



**AL163 Three-Way**



**AL164 Four-Way**



**AL165 Two-Way Corner**





CB1 One-Way

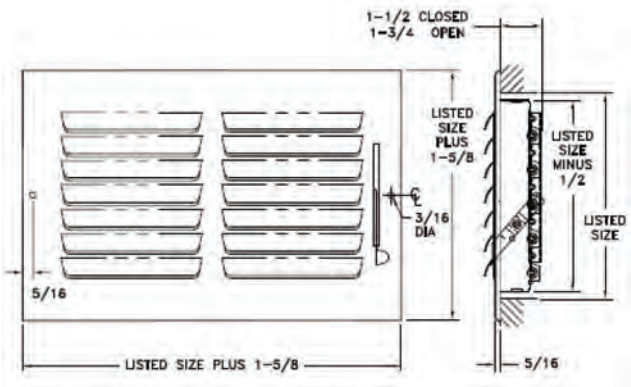
## Series CB

Stamped Curved-Blade Register with Multi-Louver Damper

**Design** — Series CB is a stamped curved-blade register with multi-louver damper for ceiling or sidewall installation.

**Features** — Stamped, one-piece face with multi-louver damper for volume control. Available in four airflow patterns.

**Construction** — Steel with White finish. Metal handle.



CB2 Two-Way



CB3 Three-Way



CB4 Four-Way



SW1 One-Way

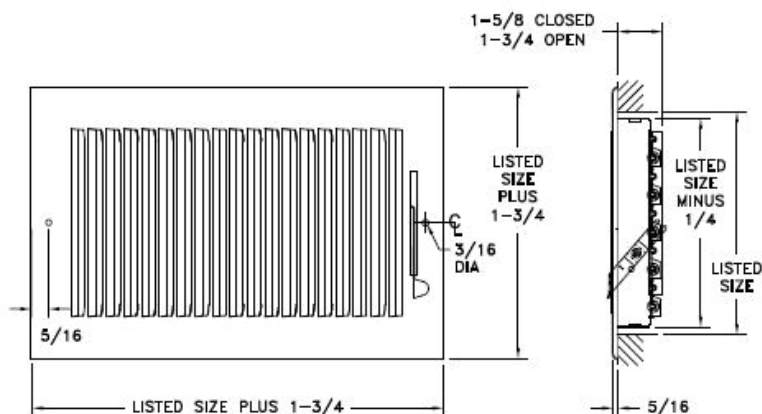
## Series SW

Stamped, Lanced-Blade  
Register with Multi-Louver  
Damper

**Design** — Series SW is a stamped, straight-blade register with multi-louver damper for ceiling or sidewall application.

**Features** — Stamped, one-piece face with multi-louver damper for volume control. Fins spaced on  $\frac{1}{2}$ " centers at 40 degrees.

**Construction** — Steel with White finish. Metal handle.



SW2 Two-Way



SW3 Three-Way



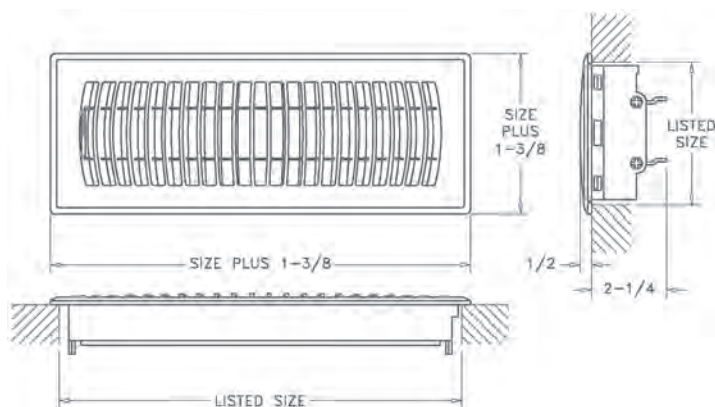
SW4 Four-Way



## Rezzin Floor Diffuser

**Features** — Two-way air throw. Multi-angled fins for fan pattern of air distribution. Foot-operated, opposed-blade damper.

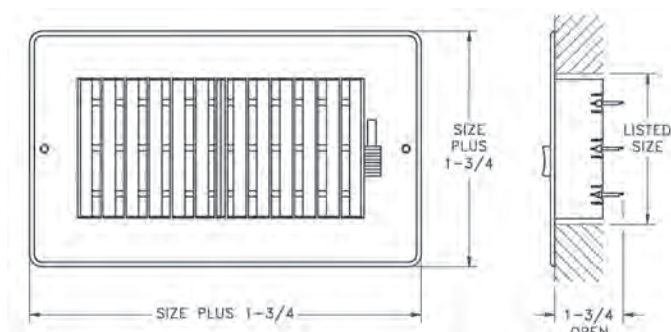
**Construction** — Engineered polymer. Solid ABS construction for floor use. Brown or Bright White finish.



## Rezzin 2-Way Sidewall/Ceiling Register

**Features** — Two-way deflection. Integral multi-louver damper with easy-to-use damper handle.

**Construction** — Engineered polymer. Bright White finish.



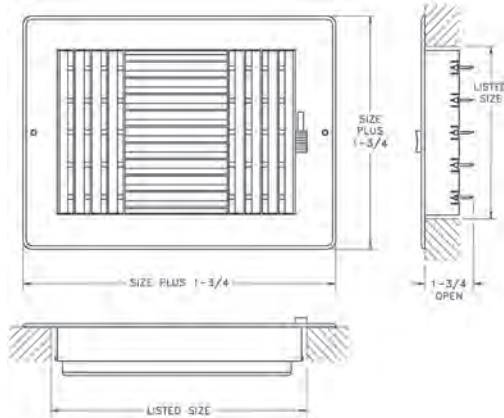


## Rezzin 3-Way

### Sidewall/Ceiling Register

**Features** — 3-way deflection. Integral multi-louver damper with easy-to-use damper handle.

**Construction** — Engineered polymer. Bright White finish.

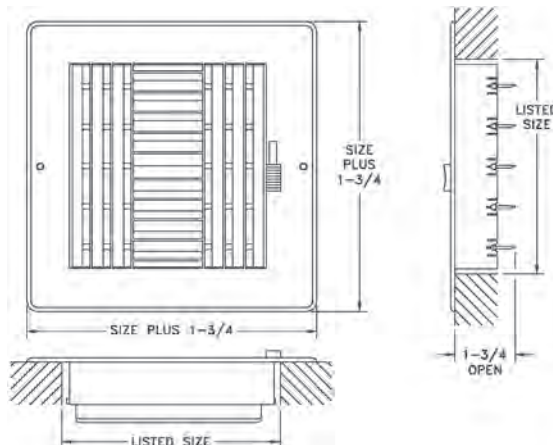


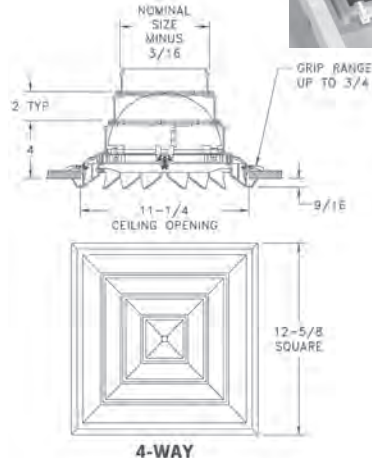
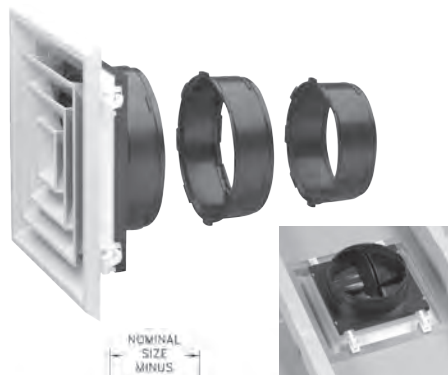
## Rezzin 4-Way

### Sidewall/Ceiling Register

**Features** — Four-way deflection. Integral multi-louver damper with easy-to-use damper handle.

**Construction** — Engineered polymer. Bright White finish.





3-Way



4-Way

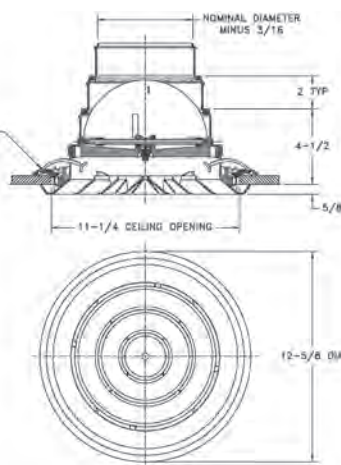
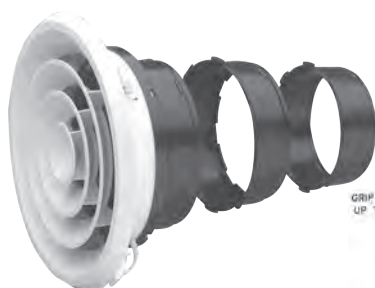


2-Way Corner

## Rezzin Square Ceiling Diffuser

**Features** — Available in four-way, three-way and two-way corner. 6", 7" and 8" collars included. Installs without screws using ratcheting cam lock. Includes removable core and integral damper.

**Construction** — Engineered polymer. Bright White finish. Contains metal parts.

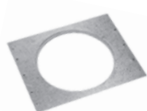


## Rezzin Round Ceiling Diffuser

**Features** — 12" round face. 6", 7" and 8" collars included. Installs without screws using ratcheting cam lock. Includes removable core and integral damper.

**Construction** — Engineered polymer. Bright White finish. Contains metal parts.

## Rezzin Rough-In Plates



16" O.C.



24" O.C.



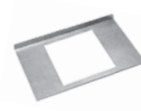
T-Bar



16" O.C.



24" O.C.



T-Bar



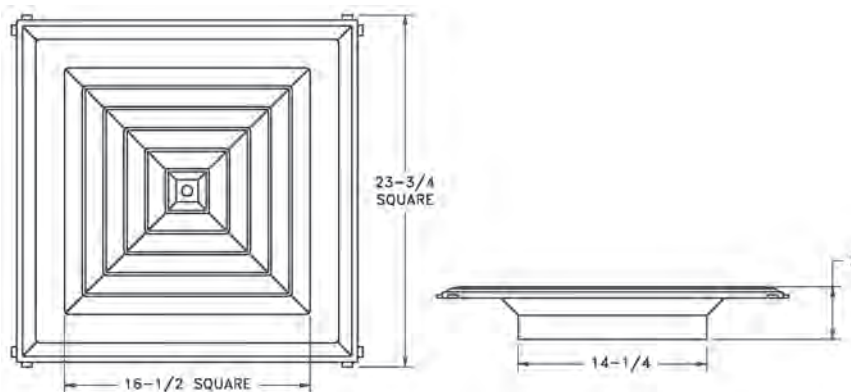


## Rezzin 4-Way T-Bar

### Directional Diffuser

**Features** — Four-way deflection. Available with Rezzin square-to-round neck adapter, ordered separately.

**Construction** — Engineered polymer. Bright White finish. Contains metal screws.



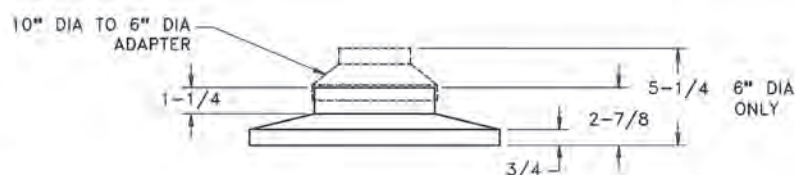
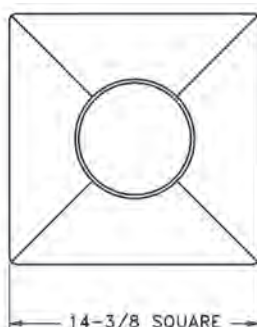
## Rezzin Square to Round

### Neck Adapter

**Design** — Square-to-round transition for use with Rezzin 4-Way T-bar.

**Features** — Allows flex duct installation with square neck diffusers. Can use R42 damper.

**Construction** — Engineered polymer. Black finish. Contains metal screws/clips.

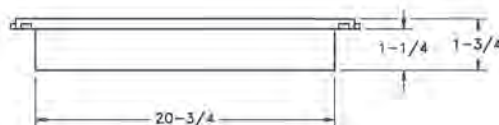
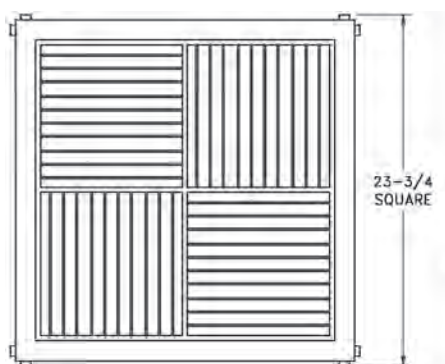




## Rezzin Modular Core Diffuser

**Features** — Modular cores provide one-, two-, three- or four-way horizontal air patterns. Removable modules provide easy access to accessories. Available with Rezzin Back Panel to accommodate 6" through 16" collars, ordered separately.

**Construction** — Engineered polymer. Bright White finish.

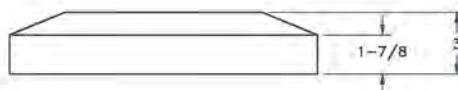
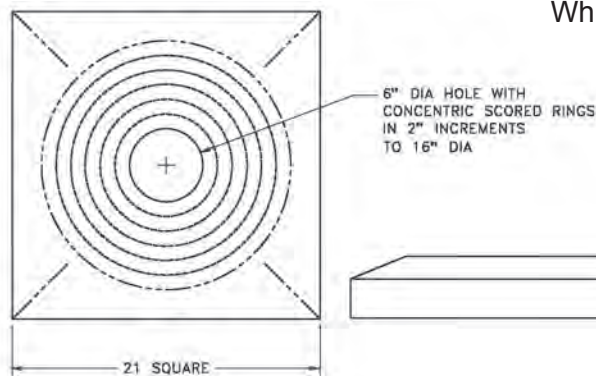


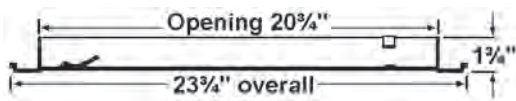
## Rezzin Back Panel

**Design** — Use with Rezzin Egg Crate or Rezzin Modular Core.

**Features** — 6" diameter hole with scored concentric rings in 2" increments for easy installation.

**Construction** — Engineered polymer. Bright White finish.



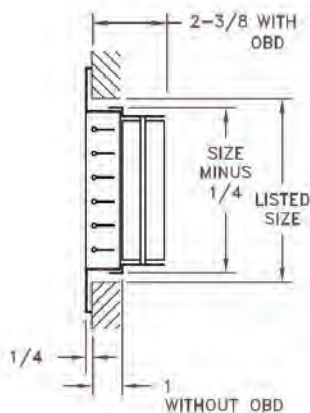


## Rezzin Egg Crate

### Filter Grille

**Features** — Egg crate style face,  $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{2}$ " grid pattern. Face is hinged to fit filter frame. Mounts flush with T-bar ceilings. Uses Rezzin Back Panel or standard fiberglass back. Uses standard 1" disposable filters.

**Construction** — Engineered polymer. Bright white finish. Contains metal screws.



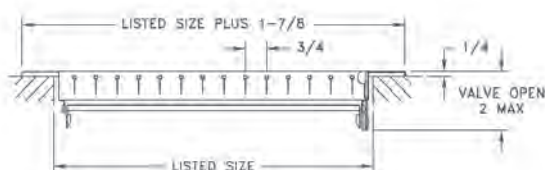
## Model 90H or V AL90H or V

Single-Deflection Supply with or without Opposed-Blade Damper

**Design** — Model 90H or V provides easily adjustable air control for any desired pattern in a single plane. Model 90H or V OBD provides effective air deflection and exacting volume control.

**Features** — Front row of adjustable blades are set on  $\frac{3}{4}$ " centers to provide any required deflection. Models with an opposed-blade damper ensure exacting volume control by spreading air equally over entire register face. Damper is screwdriver-operated. Extremely shallow depth allows damper to be used in shallow stack heads.

**Construction** — Steel or Aluminum. Blades are individually adjustable and spring-stiffened at both ends. Bright White finish standard. Countersunk mounting holes.



## Model 900H or V AL900H or V

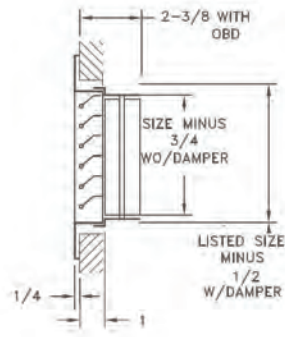
Single-Deflection Supply with Multi-Louver Damper

**Design** — Provides adjustable blade settings for Supply or Return applications. Lever-operated, multi-louver damper provides exacting volume control.

**Features** — Front row of adjustable blades are set on  $\frac{3}{4}$ " centers to provide any required deflection. Rear damper blades for volume control on 1" spacings. When closed, damper blades interlock to prevent air leakage.

**Construction** — Steel or Aluminum. Blades are individually adjustable and spring-stiffened at both ends. Bright White finish standard. Countersunk mounting holes.

**H means horizontal blades**  
**V means vertical blades**



## Model S90H or V

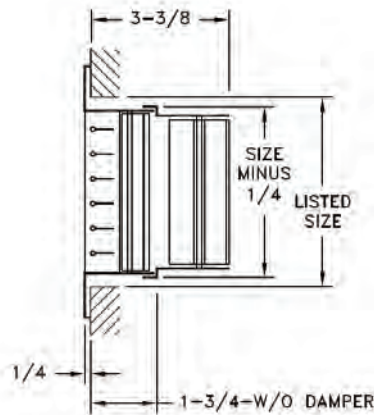
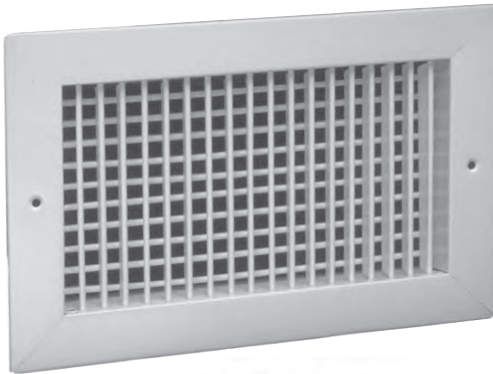
Stationary-Bar Return Grille with or without Opposed-Blade Damper

**Design** — Model S90H or V is a matching return air grille for the Series 90, 900 and 990 supply registers.

**Features** — Blades are spaced on  $\frac{3}{4}$ " centers and set at a  $35^\circ$  angle to restrict vision. Opposed-blade damper (OBD) is easily operated with a screwdriver through face. Extremely shallow depth allows damper to be used in shallow stackheads. Fixed bar blades.

**Construction** — Steel. Countersunk mounting holes. Mullion spacing not to exceed 8". Bright White finish standard.





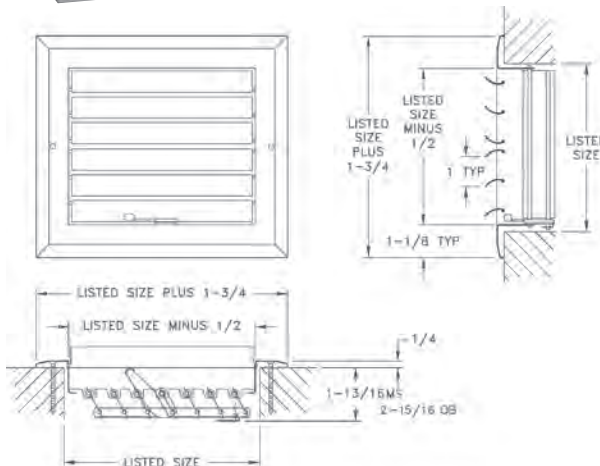
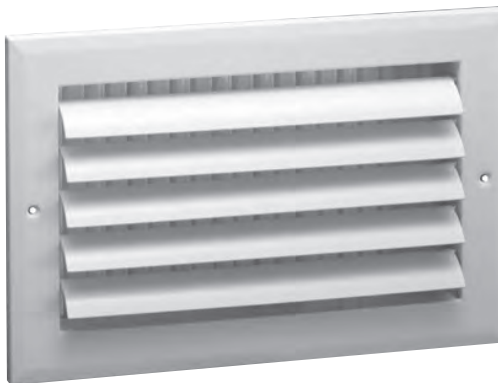
## Model 990H or V AL990H or V

Double-Deflection Supply with or without Opposed-Blade Damper

**Design** — Model 990H or V and AL990H or V provide maximum four-way diffusion. Model 990H or V OBD and AL990H or V OBD provide complete air control in both planes and equal air distribution over entire register face.

**Features** — Front and rear blades are set on  $\frac{3}{4}$ " centers with adjustment of each easily accomplished through face. OBD is screwdriver-operated. Minimum OBD depth allows use in shallow stackheads.

**Construction** — Steel or Aluminum. Bright White finish standard. Countersunk mounting holes.



## Series AL270

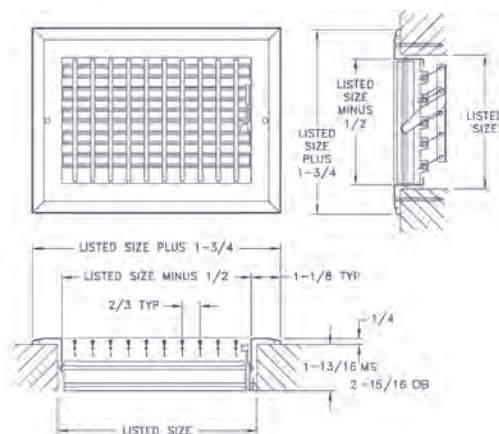
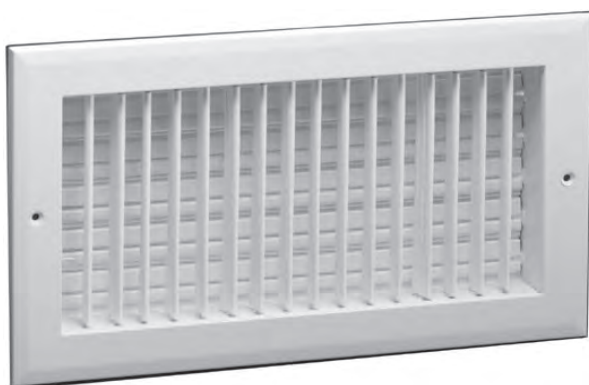
Adjustable, Curved-Blade, Sidewall Register with Multi-Louver Damper

**Design** — Provides one-, two-, three- or four-way air diffusion. Used for sidewall or ceiling applications. For ceiling applications the curved-blade design provides optimum ceiling effect.

**Features** — Adjustable curved blades increase deflection control. Multi-louver damper provides dual airflow control, curved-blade face adjustment and damper adjustment. Stamped face margins eliminate mitered corners and rough edges.

**Construction** — Aluminum face with painted steel damper. Bright White finish standard.

**H** means horizontal blades  
**V** means vertical blades



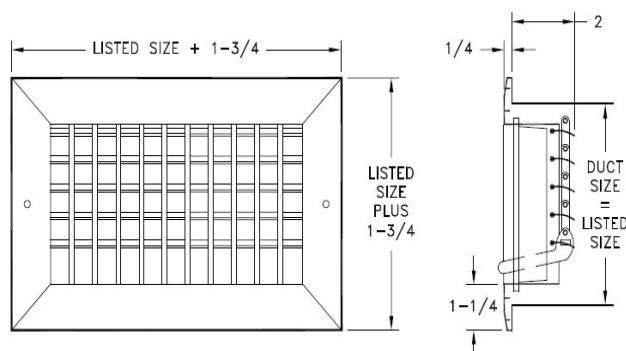
## Model AL278

Adjustable, Straight-Blade, Sidewall Register with Multi-Louver Damper

**Design** — Model AL278 is an aluminum sidewall register. Lever-operated, multi-louver damper provides exacting volume control.

**Features** — Stamped face margins eliminate mitered corners and potential rough edges. Adjustable, straight louvers provide individual deflection control.

**Construction** — Aluminum face with painted steel damper. Bright White finish standard.



## Model ALHM ALVM

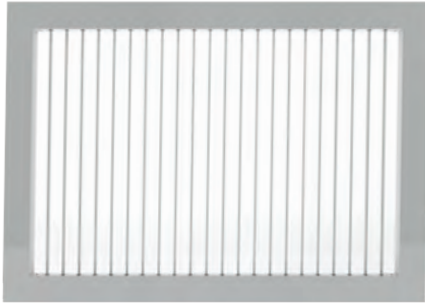
Supply Register

**Design** — Model ALHM or ALVM is a supply register.

**Features** — Horizontal blades for ALHM and vertical blades for ALVM. Single-deflection. Adjustable blades. Multi-louver damper. 3/4" blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes not advised for ML Damper.



## Model ALH ALV

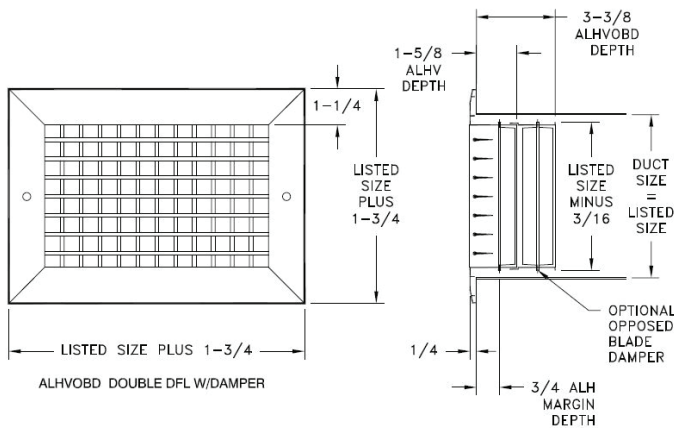
### Supply Grille

**Design** — Model ALH or ALV is a supply grille.

**Features** — Horizontal blades for ALH and vertical blades for ALV. Single-deflection. Adjustable blades.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



## Model ALHR90

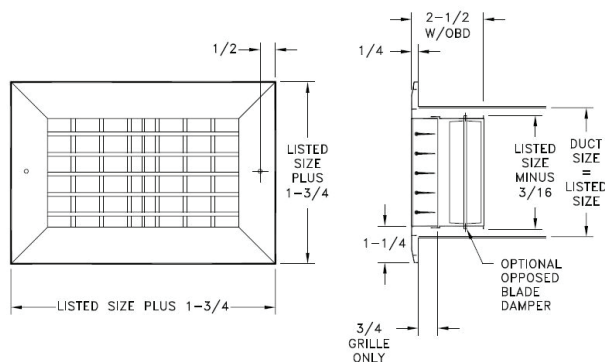
### Return Grille

**Design** — Model ALHR90 is a return grille.

**Features** — Fixed horizontal blades at 90°.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



**H** means horizontal blades  
**V** means vertical blades



## Model ALHR45

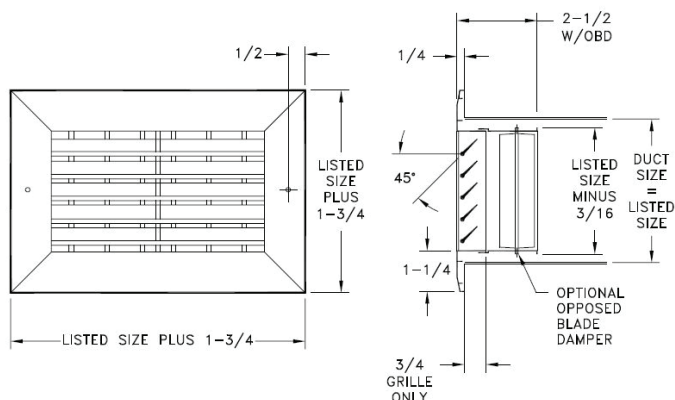
### Return Grille

**Design** — Model ALHR45 is a return grille.

**Features** — Fixed horizontal blades at 45°.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



## Model ALHOBD ALVOBD

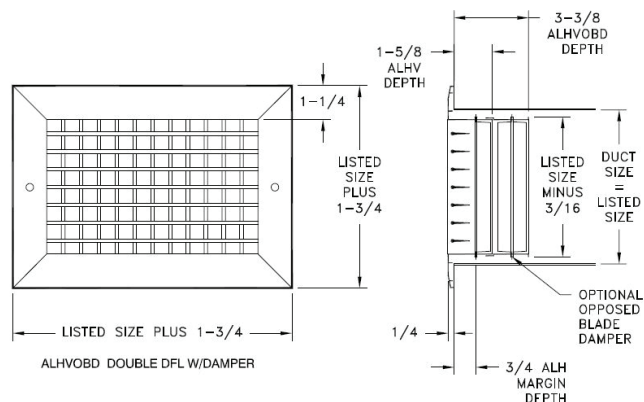
### Supply Register

**Design** — Model ALHOBD or ALVOBD is a supply register.

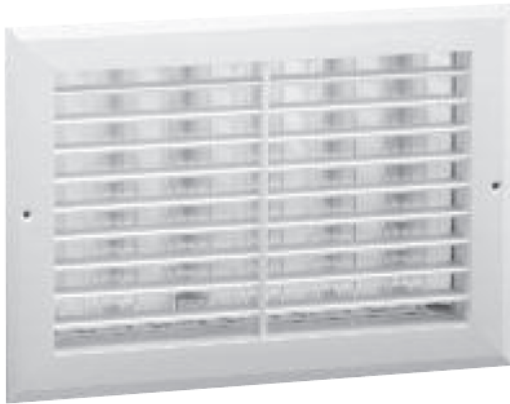
**Features** — Horizontal blades for ALHOBD and vertical blades for ALVOBD. Single-deflection. Adjustable blades. Opposed-blade damper.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



**H** means horizontal blades  
**V** means vertical blades



## Model ALHR90OBD

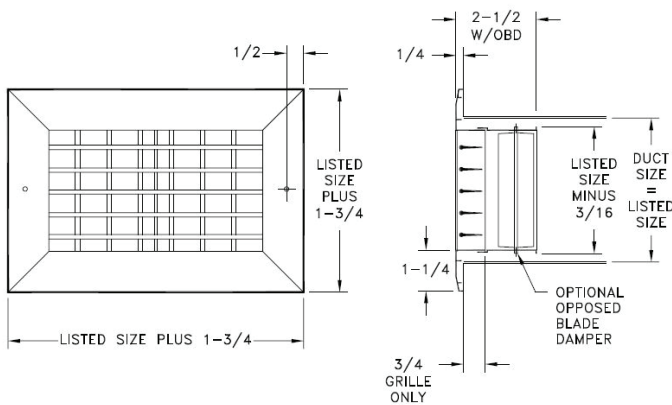
### Return Register

**Design** — Model ALHR90OBD is a return register.

**Features** — Fixed horizontal blades at 90°. Opposed-blade damper.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



## Model ALHR45OBD

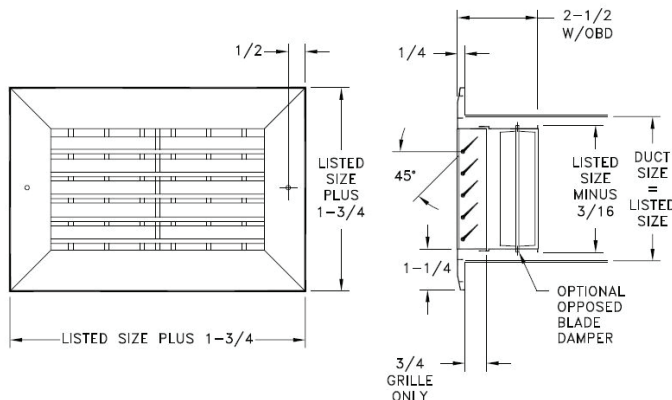
### Supply Register

**Design** — Model ALHR45OBD is a supply register.

**Features** — Fixed horizontal blades at 45°. Opposed-blade damper.  $\frac{3}{4}$ " blade spacing.

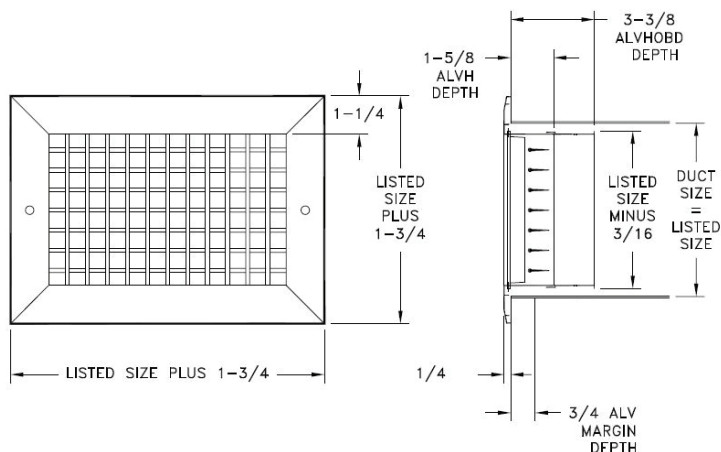
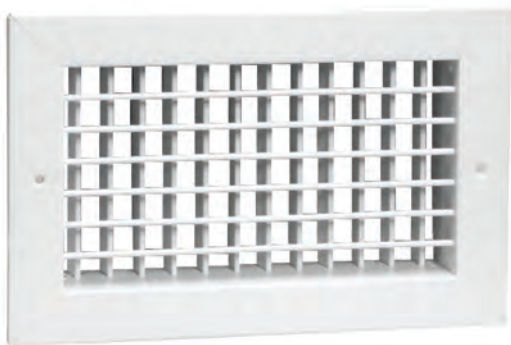
**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



**H** means horizontal blades  
**V** means vertical blades





## Model ALHV ALVH

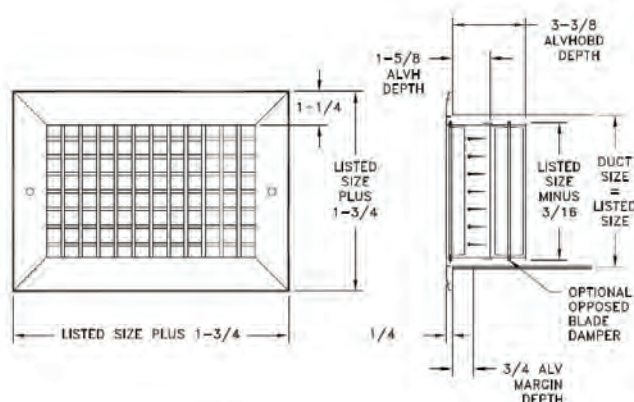
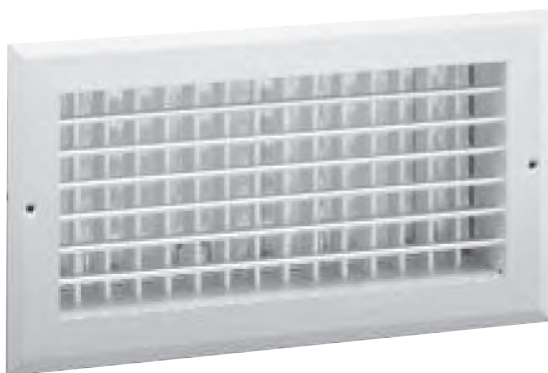
### Supply Grille

**Design** — Model ALHV or ALVH is a supply grille.

**Features** — Horizontal front blades for ALHV and vertical front blades for ALVH. Double-deflection. Adjustable blades.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



## Model ALHVOBD ALVHOB D

### Supply Grille

**Design** — Model ALHVOBD or ALVHOB D is a supply grille.

**Features** — Horizontal front blades for ALHVOBD and vertical front blades for ALVHOB D. Double-deflection. Adjustable blades.  $\frac{3}{4}$ " blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.

H means horizontal blades  
V means vertical blades



## Model ALCML

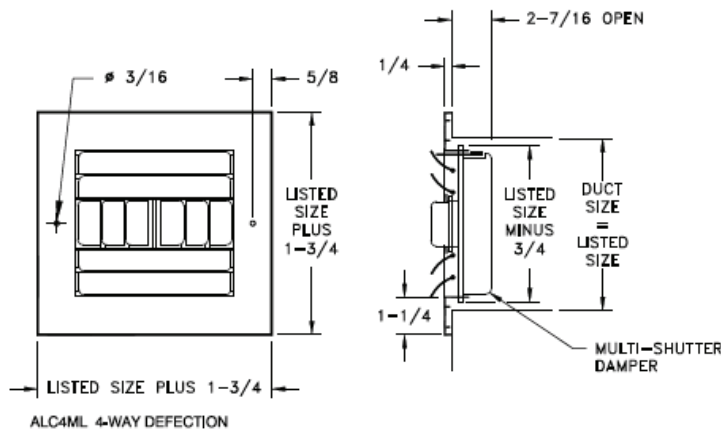
### Ceiling Supply Register

**Design** — Provides one-, two-, three- or four-way air diffusion. Used in ceiling installations.

**Features** — Adjustable curved blades. Multi-louver damper. 1" blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes not advised for ML Damper.



## Model ALC

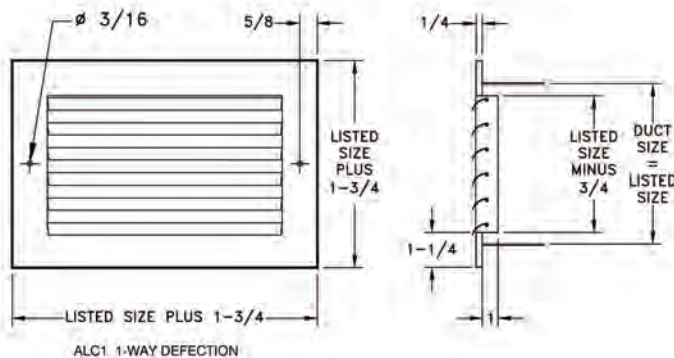
### Ceiling Supply Grille

**Design** — Provides one-, two-, three- or four-way air diffusion. Used in ceiling installations.

**Features** — Adjustable curved blades. 1" blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



**H** means horizontal blades  
**V** means vertical blades



## Model ALCOBD

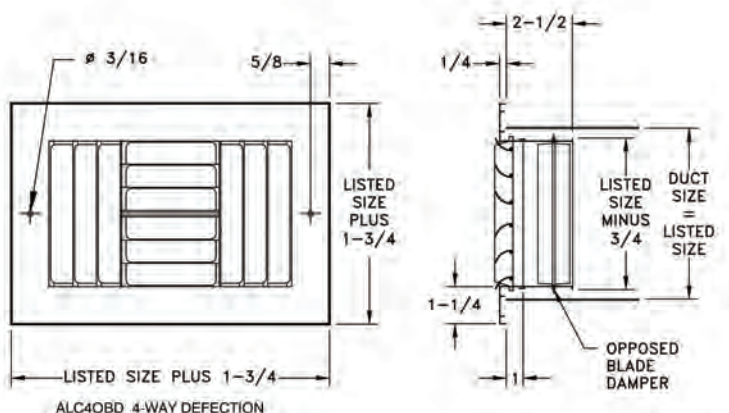
### Ceiling Supply Register

**Design** — Provides one-, two-, three- or four-way air diffusion. Used in ceiling installations.

**Features** — Adjustable curved blades. Opposed-blade damper. 1" blade spacing.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.



## Model ALH45FF

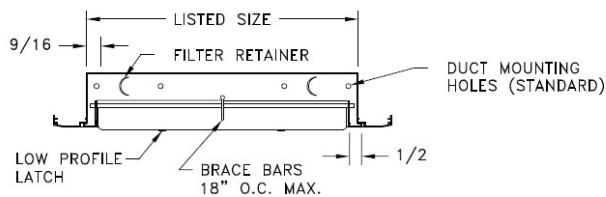
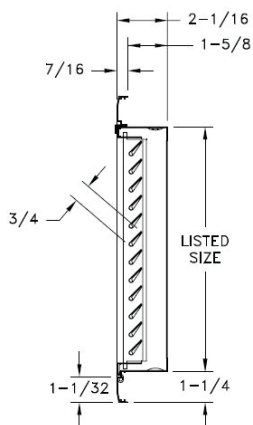
### Filter Grille

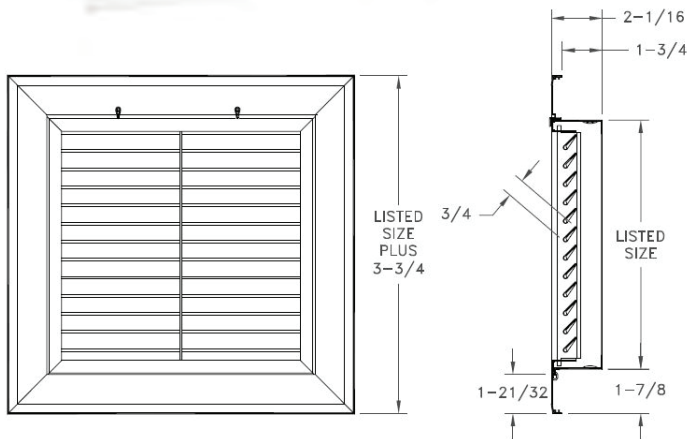
**Design** — Model ALH45FF is a filter grille.

**Features** — Horizontal front blades fixed at 45°. Accepts 1" filter. 3/4" blade spacing. Plastic slide latch fastener.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

Fractional sizes available.





## Model ALH45TFF

### T-Bar Filter Grille

**Design** — Model ALH45TFF is a T-Bar filter grille.

**Features** — Bar-style face with blades fixed at 45°. Accepts 1" filter. Mounts flush with T-Bar ceilings. 3/4" blade spacing. Plastic slide latch fastener.

**Construction** — Extruded aluminum. Bright White or clear anodized finish available.

| LISTED SIZE | T-BAR   | OVERALL         |
|-------------|---------|-----------------|
| 20 X 20     | 24 X 24 | 23-3/4 X 23-3/4 |
| 44 X 20     | 48 X 24 | 47-3/4 X 23-3/4 |

**H** means horizontal blades  
**V** means vertical blades



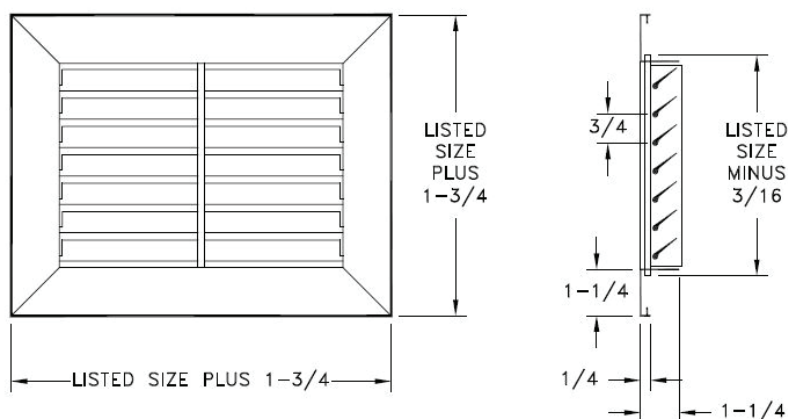
## Model ALHR45T

### T-Bar Return Grille

**Design** — Model ALHR45T is a T-Bar return grille.

**Features** — Bar-style face with blades fixed at 45°. Mounts flush with T-Bar ceilings.  $\frac{3}{4}$ " blade spacing.

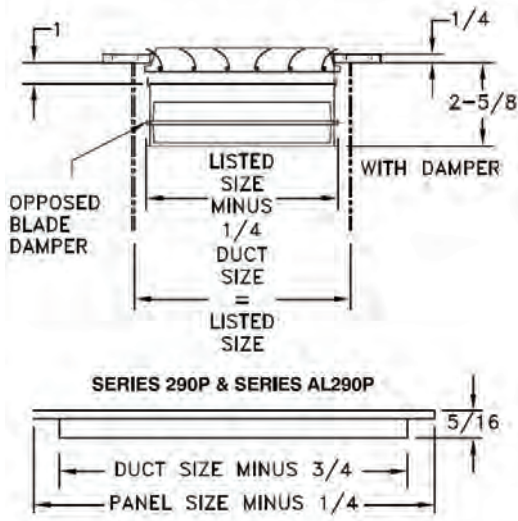
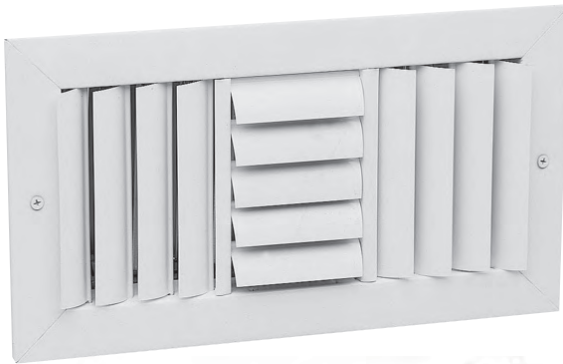
**Construction** — Extruded aluminum. Bright White or clear anodized finish available.



| LISTED SIZE | T-BAR   | OVERALL         | FINISH     |
|-------------|---------|-----------------|------------|
| 22 X 10     | 24 X 12 | 23-3/4 X 11-3/4 | WHT        |
| 22 X 22     | 24 X 24 | 23-3/4 X 23-3/4 | WHT OR CLR |
| 46 X 22     | 48 X 24 | 47-3/4 X 23-3/4 | WHT OR CLR |

H means horizontal blades  
V means vertical blades





## Series 290

### Adjustable Curved-Blade Ceiling Diffuser with or without Damper

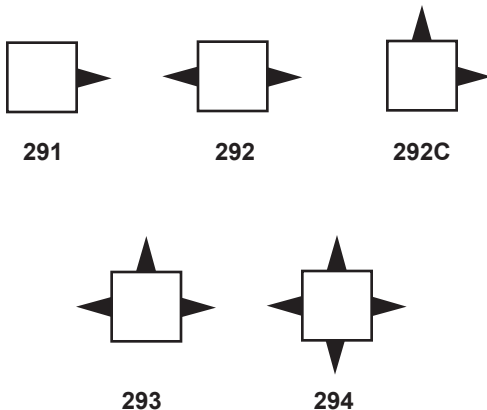
**Design** — Provides one-, two-, three- or four-way air diffusion. Also available in two-way corner blow (specify 292C). Used in ceiling installations, the curved blade provides optimum ceiling effect, resulting in longer throws. Exact air placement obtained by simple adjustment of blade setting.

**Features** — Curved-blade design provides maximum air diffusion flexibility. Tension spring interwoven on blade pivot permits positive blade setting. Also available with multi-louver damper (290ML) or opposed-blade damper (290OBD). Opposed-blade damper is screwdriver-operated. 1" blade spacing.

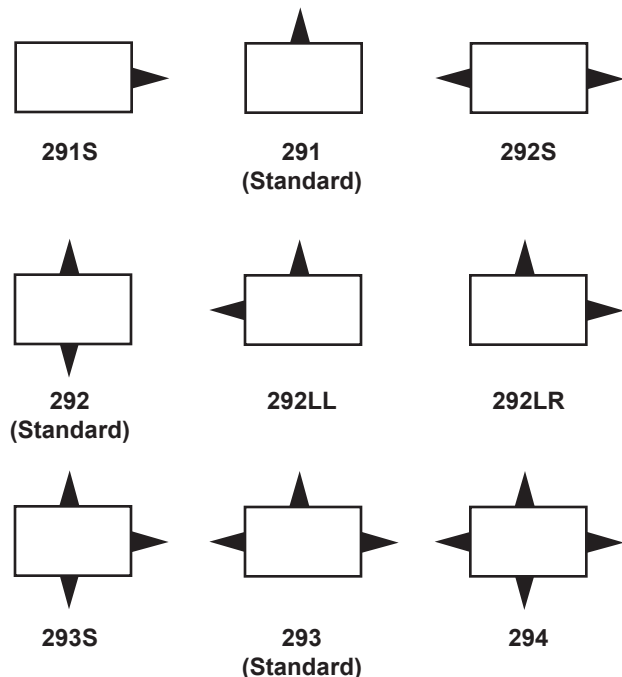
**Construction** — Steel only.  
Bright White finish standard.

#### Patterns As Seen From Back of Diffuser

##### SQUARE



##### RECTANGULAR





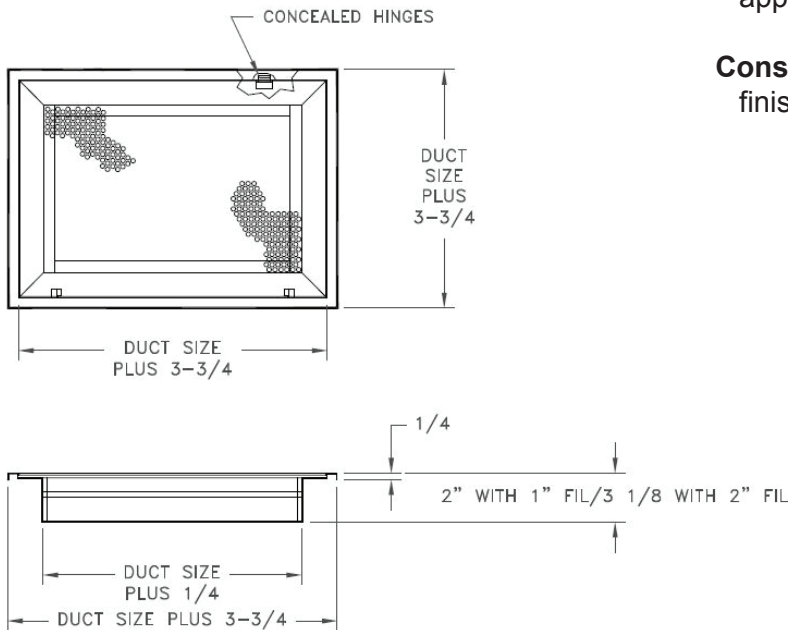
## Model 12PFF

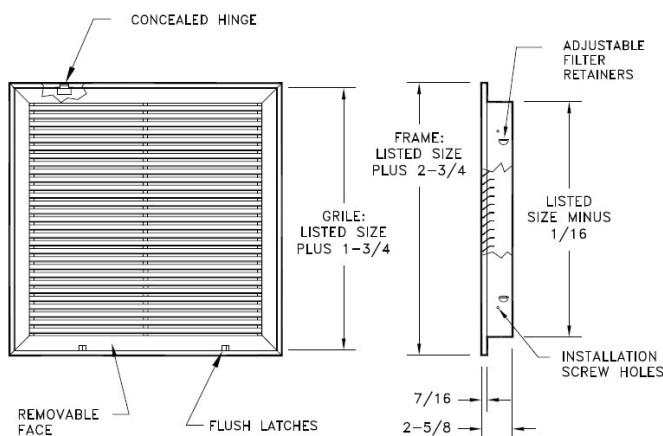
### Perforated Diffuser Face with Filter Frame

**Design** — Filter frames are for use in all types of air-conditioning systems. Acts as a holder for the filter or as an access opening into small air-handling units.

**Features** — Perforated face, hinged parallel to the long dimension. Concealed hinge standard. Filter frame holds 1" filter. Cam-lock fastening standard, located on side opposite hinge. Number of cam-locks vary with size of frame. Also available for T-Bar applications.

**Construction** — Steel. Bright White finish standard.





## Model S90H or V FF

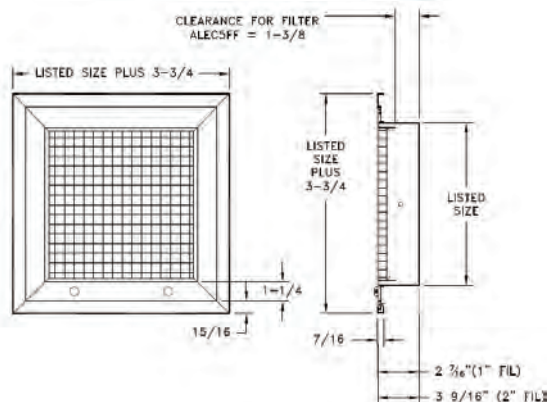
### Stationary-Bar Return Grille with Filter Frame

**Design** — Acts as a holder for the filter and/or as an access opening into small air-handling units.

**Features** — Grille face is hinged parallel to blades for easy access to filter. Knurled knob fastening standard on aluminum. Number of fastenings vary with size of unit. Also available for T-Bar applications. 35° deflection.

**Construction** — Steel. Bright White finish standard.

**H** means horizontal blades  
**V** means vertical blades



## Model ALEC5FF

### Eggcrate Return Exhaust Grille with Filter Frame

**Design** — Model ALEC5FF is designed for use in all types of air-conditioning systems.

**Features** — Acts as a holder for the filter or as an access opening into small air-handling units. Core is 1/2" x 1/2" x 1/2" squares. Also available for T-Bar applications.

**Construction** — Concealed hinge. Standard filter frame holds 1" filter. Number of thumbscrews varies with size of frame. Aluminum. Bright White finish standard.



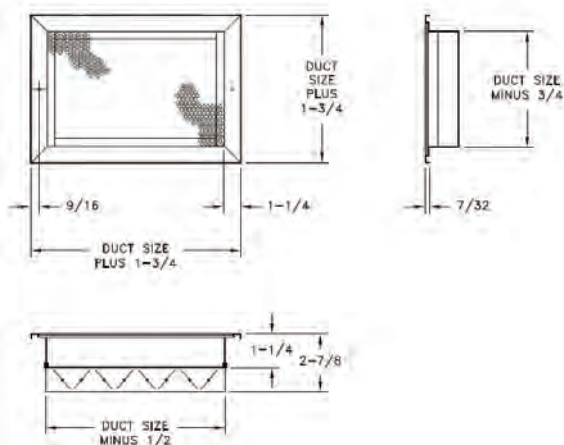
## Model 12P

### Perforated Diffuser Face

**Design** — Model 12P is a perforated return diffuser.

**Features** — Perforated diffuser face with frame. Optional opposed-blade damper (OBD) is screwdriver-operated.

**Construction** — Steel. Bright White finish standard.



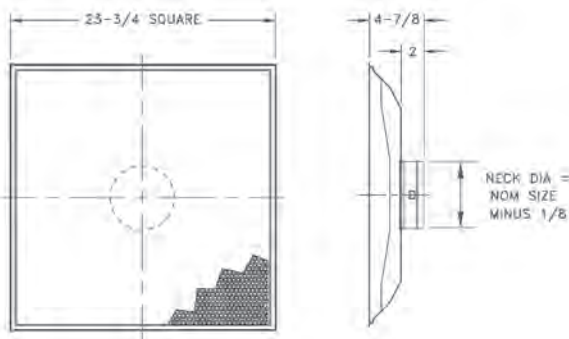
## Model 1230

### Perforated Return Diffuser with Round Neck

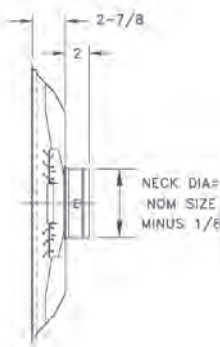
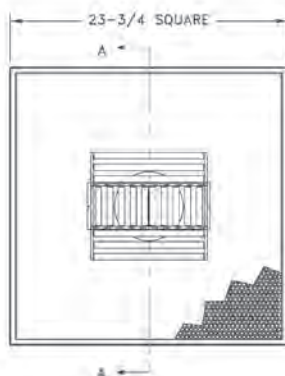
**Design** — Model 1230 is a matching return unit for supply models 1234 and 1235.

**Features** — Unique 2" high round collar makes flex duct connections simple and fast. Removable face interchangeable with supply units. Available in 6", 8", 10", 12", 14", 16" and 18" round neck sizes on a 24" x 24" panel.

**Construction** — Steel. White face with white back standard, or white face with black back optional.







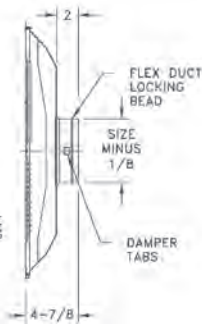
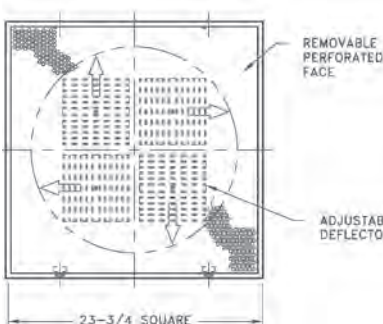
## Model 1234

Perforated Supply  
Lay-In T-Bar Round Neck with  
Adjustable, Curved-Blade  
Core

**Design** — Model 1234 removable face, round neck, perforated diffusers.

**Features** — Simple adjustment of air pattern for vertical or horizontal deflection for one-, two-, three- or four-way discharge is accomplished without altering diffuser's appearance. Hinged/latched face for easy access. Unique 2" high collar permits easy flex connection.

**Construction** — Steel. White face with white back standard, or white face with black back optional.



## Model 1235

Perforated Supply with  
Removable Face  
Lay-In T-Bar Round Neck

**Design** — Model 1235 removable face, round neck, perforated diffusers.

**Features** — Removable face and stamped deflector pattern controllers, which provide efficient air performance. Six different air patterns can be achieved by adjusting deflectors through perforated face or by removing face. Hinged/latched face for easy access.

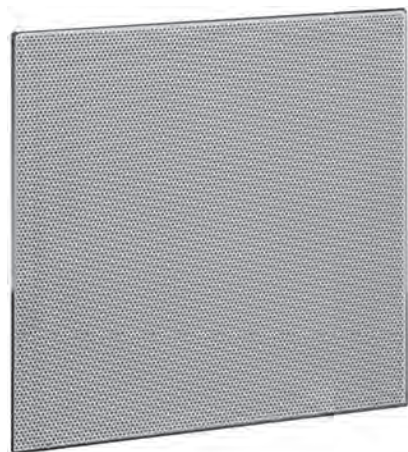
**Construction** — Steel. Bright White finish standard.

### FACE DETAIL

PERFORATED - 3/16 INCH HOLES  
ON 1/4 INCH  
STAGGERED CENTERS,  
51% FREE AREA







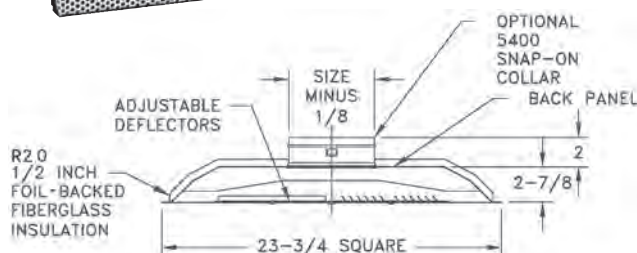
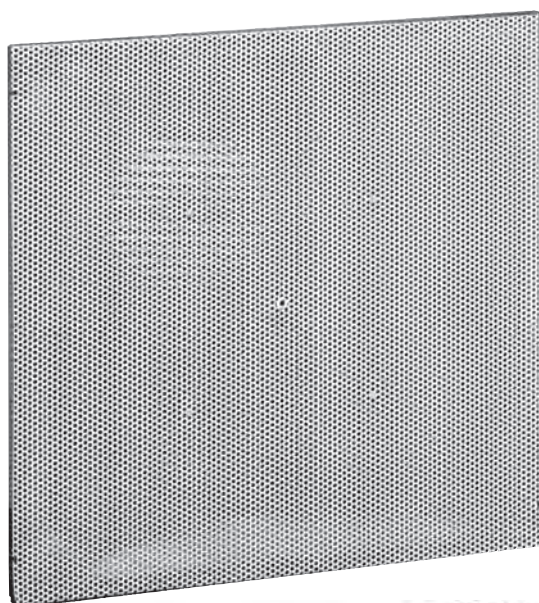
## Model 1274

### Perforated Return Turned-Up Panel Only

**Design** — Model 1274 is a perforated turned-up panel (only) designed for lay-in T-Bar ceilings.

**Features** — Perforated face with turned-up edges. Sizes available: 12x24, 24x24, 24x48.

**Construction** — Steel. Bright White finish standard.



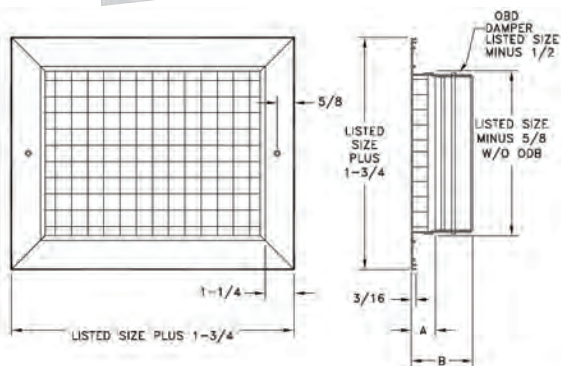
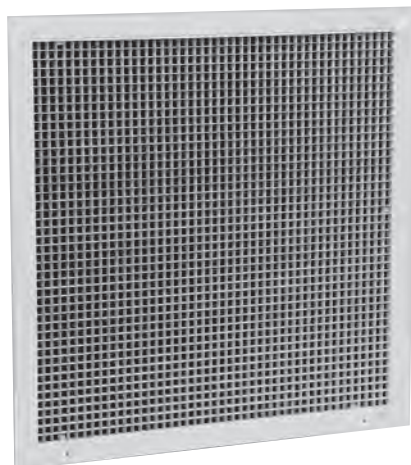
## Model 4250

### Perforated Supply Diffuser

**Design** — Model 4250 perforated diffusers are designed for lay-in T-Bar ceilings applications.

**Features** — Fixed face attached to a duct connection collar. Model R22 Butterfly Damper optional. Available in various sizes.

**Construction** — Steel. Bright White standard finish.



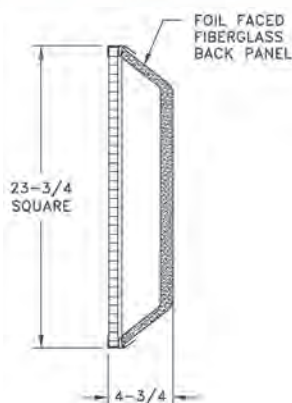
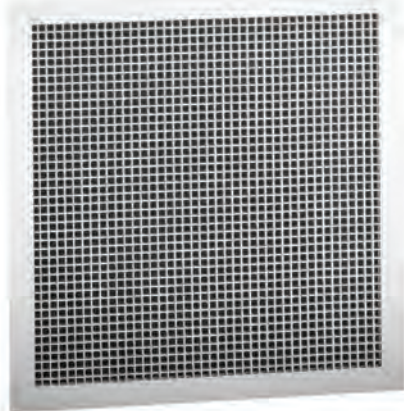
## Model ALEC

### Eggcrate Exhaust Grille

**Design** — Models ALEC5, ALEC10 and ALEC15 are return air grilles with aluminum square pattern grid, providing maximum free area of 90% and minimum see-through.

**Features** — Model ALEC5 has a core of 1/2" x 1/2" x 1/2". Model ALEC10 has a 1" x 1" x 1" core. Model ALEC15 has a 1/2" x 1/2" x 1" core. For T-Bar order as ALEC5 22x22 Wht Lay-in NSH.

**Construction** — Aluminum construction. Bright White finish standard. Steel T-Bar panel mount option.



## Model ALEC5 R4.2

### Return Air, Eggcrate Grille with Insulated Back for T-Bar

**Design** — Return air grilles with aluminum square pattern grid, providing maximum free area of 90% and minimum see-through.

**Features** — Model ALEC5 has a core of 1/2" x 1/2" x 1/2". Order as ALEC5 R4 22x22 Wht Lay-in NSH.

**Construction** — Aluminum construction. Bright White finish standard.

# Series 1400, AL1400

## Square/Rectangular Ceiling Diffusers



**Design** — Lima 1400s are high capacity ceiling diffusers. Because they maintain an unbroken horizontal flow pattern from maximum CFM down to minimum CFM, they are an excellent choice for variable air volume applications.

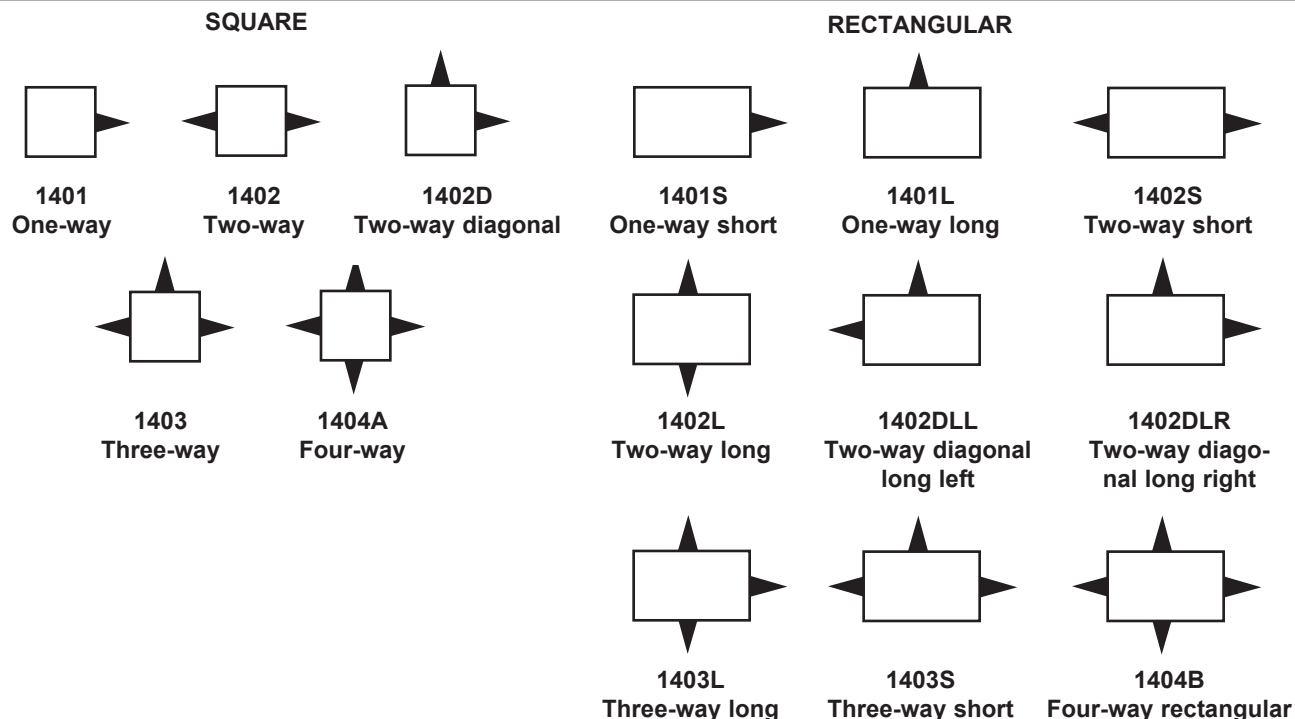
**Features** — The 1400 Series snap-in core is held in place by two tabs that slide into the outer frame. The other side is secured by a positive lock arrangement. Core is easily removed by releasing lock and removing the core. Optional ALOBD14 available in three-inch increments from 6 x 6. See page 71

### Accessories for AL1400 Series:

#### Model ALOBD14

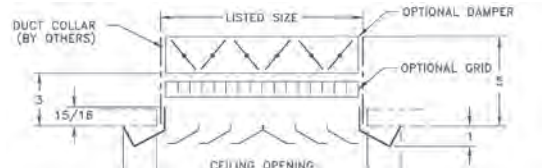
Aluminum Opposed-Blade Damper in 3-inch increments

### Patterns as seen from back of diffuser

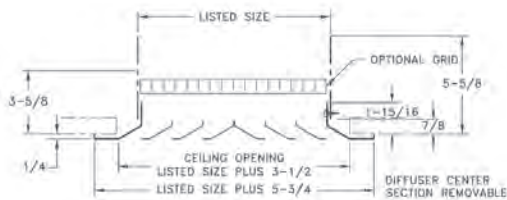


## 1400 and AL1400 Frame Styles

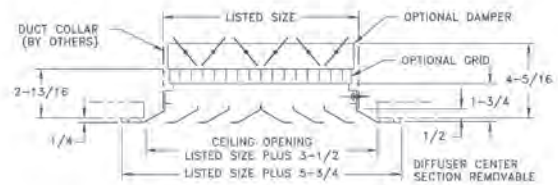
### Aluminum Surface Mount V — Frame 31



### Surface Mount Flat — Frame 32\* Square or Rectangular Neck

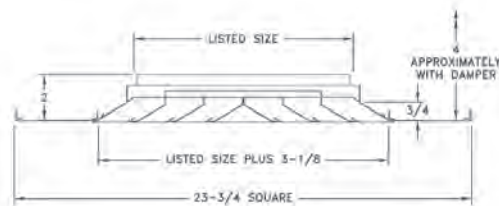


### Surface Mount Flat — Frame 32\* Square or Rectangular Neck

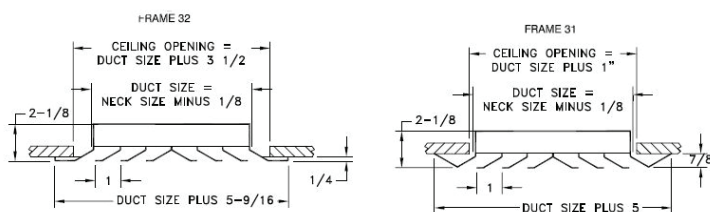


\*An 18 x 18 fits into a 2' x 2' T-Bar ceiling.

### T-Bar Lay-In — Frame 33







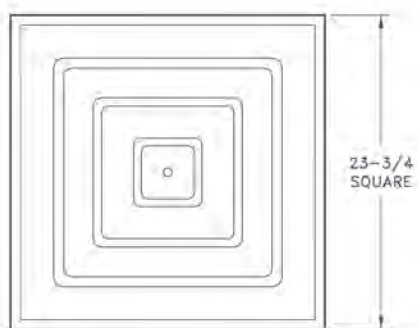
## Model 1444 AL1444

Modular Core Supply or Return  
Diffuser - Frame 31, 32, 33

**Design** — Models 1444 and AL1444 are square or rectangular modular supply or return diffusers. They have a snap-in modular core that provides one-, two-, three- or four-way pattern deflections.

**Features** — Choice of three frame styles. V-shaped Frame 31, Flat Frame 32 or Frame 33 for T-Bar Ceilings. Available with or without opposed-blade damper (OBD) unmounted. Damper is operated with screwdriver through face after removing a module. Neck sizes 6" through 20" square.

**Construction** — Steel or Aluminum. Bright White finish standard.

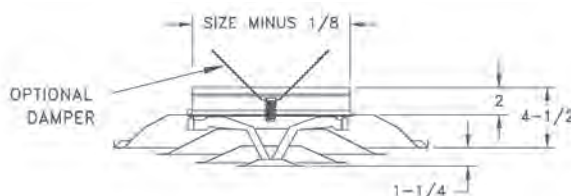


## Model 1500 Step-Down Ceiling Diffuser

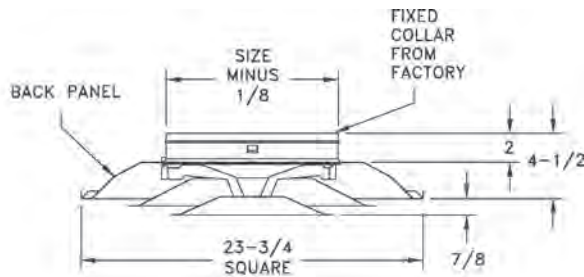
**Design** — Provides high air volume delivery in a four-way air diffusion pattern.

**Features** — Four-cone design, fixed core, optional damper control access (damper ordered separately), and 2" high collar for easy flex connections. Collar sizes available: 6", 8", 10", 12", 14". Utilizes the R22 Butterfly Damper.

**Construction** — All-steel construction. Formed steel back panel. Bright White finish standard.







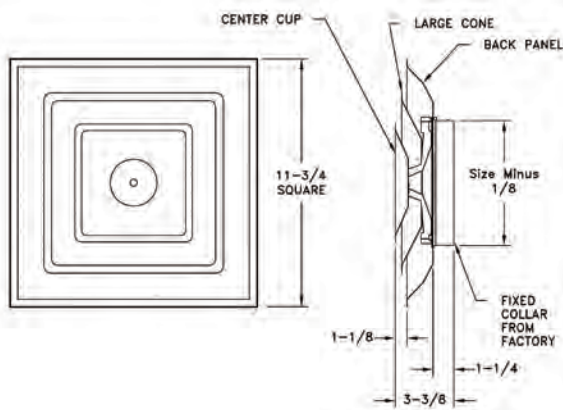
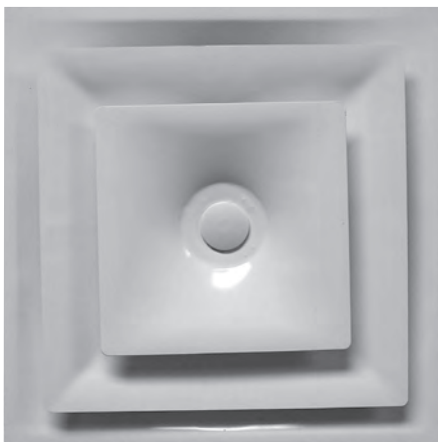
## Model 1520 AL1520

### Step-Down Ceiling Diffuser

**Design** — Provides high air volume delivery in a four-way air diffusion pattern.

**Features** — Three-cone design, fixed core, optional damper control access (damper ordered separately), and 2" high collar for easy flex connections. Collar sizes available: 6", 8", 10", 12", 14". Utilizes the R22 Butterfly Damper.

**Construction** — Steel or aluminum construction. Formed steel back panel. Bright White finish standard.



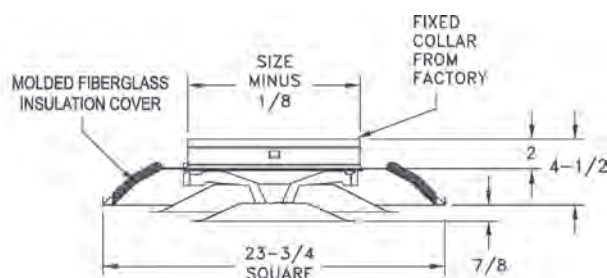
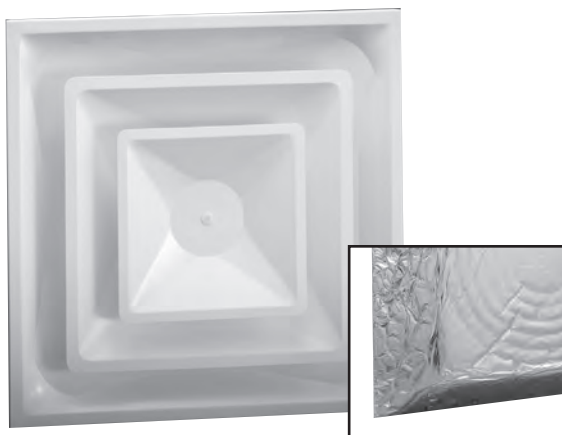
## Model 1520-12

### Step-Down Ceiling Diffuser

**Design** — Provides 360-degree air volume delivery in a four-way air diffusion pattern.

**Features** — Three-cone design, fixed core, optional damper control access (damper ordered separately), and 1-1/4" high collar for easy flex connections. Collar sizes available: 6", 7", 8". Use with AL10PF plaster frame for surface-mount applications. Uses R-42 radial damper, sold separately.

**Construction** — All-steel construction. Formed steel back panel. Bright White finish standard.



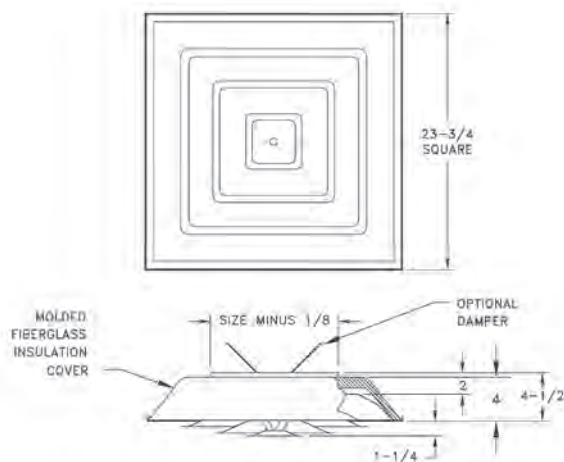
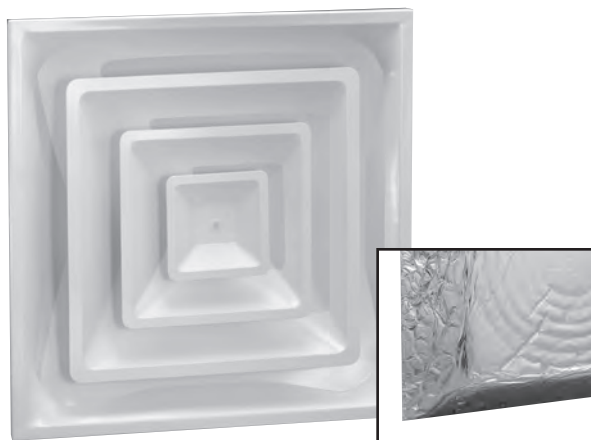
## Model 1530

### Insulated Step-Down Ceiling Diffuser

**Design** — Provides high air volume delivery in a four-way air diffusion pattern.

**Features** — Three-cone design, fixed core, optional damper control access (damper ordered separately) and 2" high collar for easy flex connections. Molded fiberglass back meets or exceeds the following: ASTM E84 Flame and Smoke Test, UL181 Erosion and Impact Test, "R" value of 6. Collar sizes available: 6", 8", 10", 12", 14".

**Construction** — All-steel construction. Formed steel back panel. Bright White finish standard.



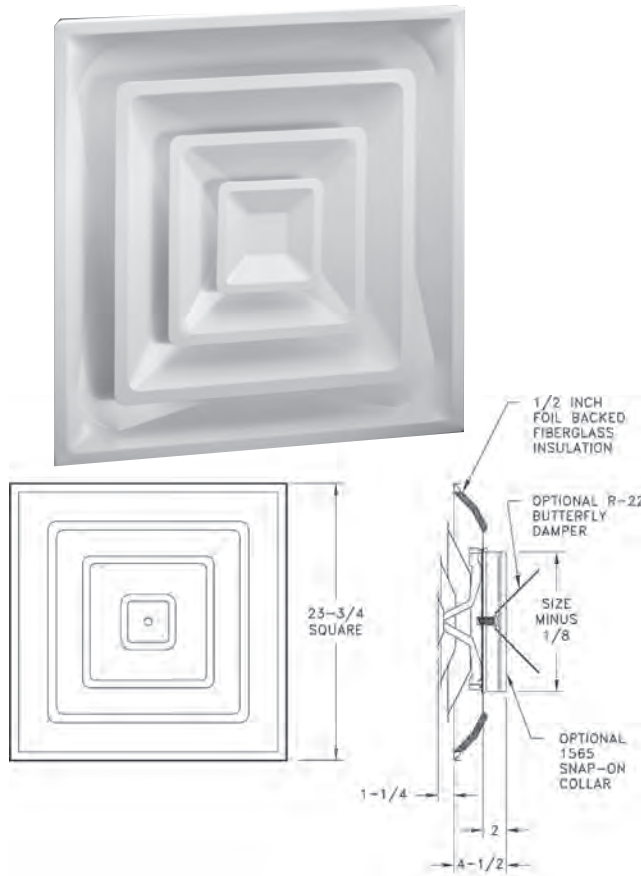
## Model 1540/1540D

### Insulated Step-Down Ceiling Diffuser

**Design** — Provides high air volume delivery in a four-way air diffusion pattern.

**Features** — Four-cone design, fixed core, optional damper control access (damper ordered separately), and 2" high collar for easy flex connections. Molded fiberglass back meets or exceeds the following: ASTM E84 Flame and Smoke Test, UL181 Erosion and Impact Test, "R" Value of 6. Collar sizes available: 6", 8", 10", 12", 14". Model 1540D available with butterfly damper installed.

**Construction** — All steel construction. Formed steel back panel with molded fiberglass insulation cover. Bright White finish standard.



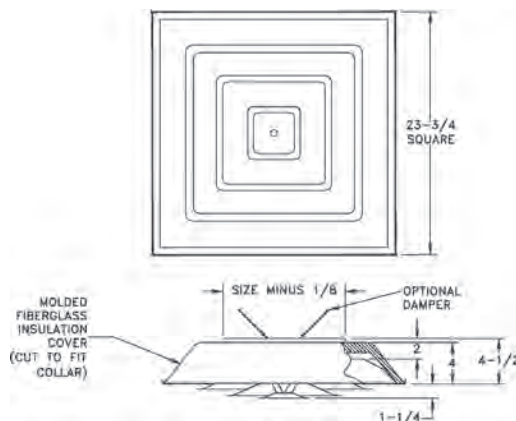
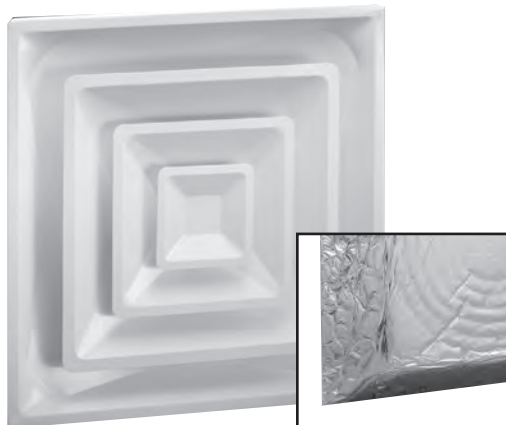
## Model 1560

### Step-Down Ceiling Diffuser

**Design** — Provides 360-degree high air volume delivery in a four-way air diffusion pattern.

**Features** — Four-cone design with fixed core and formed back panel. Fiberglass insulation blanket with foil vapor barrier to minimize condensation. Comes prescored to accommodate collar size desired. Accepts unique 2" high snap-in collar (Model 1565). Collar sizes available: 6", 8", 10", 12" (1560-14 collar factory-installed). Utilizes butterfly damper (Model R22) inserted in collar.

**Construction** — All-steel construction. Formed steel back panel. Bright White finish standard.



## Model 1570

### Insulated Step-Down Ceiling Diffuser

**Design** — Provides high air volume delivery in a four-way air diffusion pattern.

**Features** — Four-cone design with fixed core and formed back panel. Molded fiberglass back meets or exceeds the following: ASTM E84 Flame and Smoke Test, UL181 Erosion and Impact Test, "R" value of 6. Accepts unique 2" high snap-in collar (Model 1565) with use of 1565PP push pins.

**Construction** — All-steel construction. Formed steel back panel. Bright White finish standard.



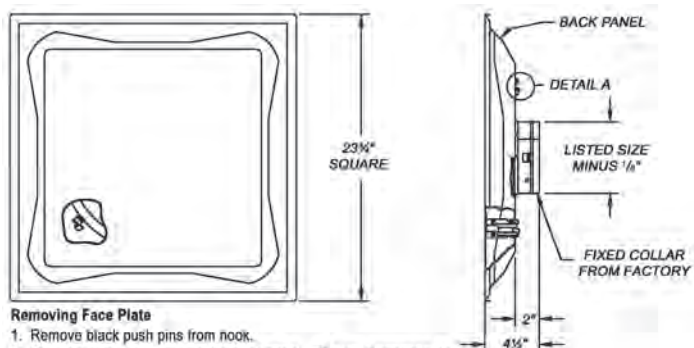
## Model 1580/1590

### T-Bar Plate Diffuser

**Design** — Model 1580/1590 has an aesthetically appealing, single-face plate design.

**Features** — Model 1580/1590 features a 360-degree air diffusion pattern, a detachable face plate, and a 2" fixed collar. The Model 1590 has an R6 molded fiberglass back, which provides effective insulation of the steel back panel.

**Construction** — All steel. Bright White finish.



#### Removing Face Plate

1. Remove black push pins from hook.
2. Push the face plate towards the back panel. This will disengage the hooks from the backside panel slots (*Detail A*).
3. Rotate the face plate counterclockwise, and pull plate away from back panel and hooks through the slots.



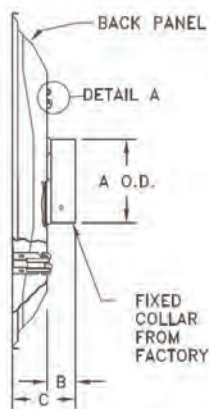
## Model AL1580/1580-12

### T-Bar Plate Diffuser

**Design** — Model AL1580/1580-12 has an aesthetically appealing, single-face plate design.

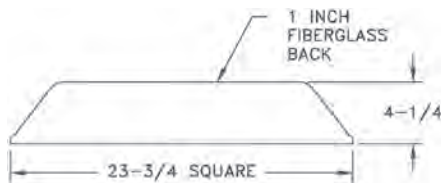
**Features** — Model AL1580 features a 360-degree air diffusion pattern, with a detachable face plate. It is constructed of 100% aluminum allowing for MRI applications. The Model 1580-12 is constructed of heavy gauge steel for 1' x 1' Tbar grids.

**Construction** — AL1580 All Aluminum.  
1580-12 All Steel. Bright White Finish



| Tbar grid | round duct size | B      | C      |
|-----------|-----------------|--------|--------|
| 12 x 12   | 6, 7            | 1-1/8" | 2-1/4" |
|           | 8               | 1-1/4" | 2-3/8" |
| 24 x 24   | 6, 8            | 1-1/4" | 3-3/4" |
|           | 10, 12, 14      | 1-3/8" | 3-7/8" |





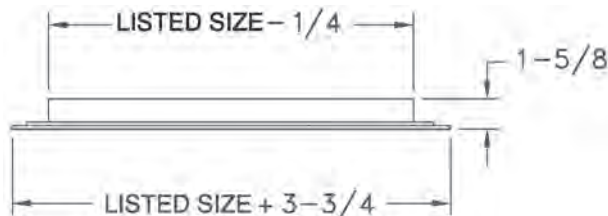
## Fiberglass Plenum-Back

For T-Bar Lay-In (24 x 24)

**Design** — Molded fiberglass backs with a deep plenum cavity to improve performance.

**Features** — One-inch thick fiberglass covers entire T-Bar opening with an “R” value of 4.2, 6 and 8. Insulation absorbs sound and accepts standard spin-in tab collars supplied by others. Tested in compliance with surface-burning characteristics (ASTM E-84) and erosion test (UL 181). Tested in accordance with ASHRAE Standard 70-1991 and ADC regulations.

Available in R4.2, R6, and R8



## Model 1280

Lanced-Face T-Bar Filter Grille

**Design** — Removable flush face design that can be installed in any direction. 1/3” blade spacing.

**Features** — Models 1280 R4 and 1280 R6 feature molded fiberglass insulated backs. Flush face design with extended margins and swing style latches for easy access to filter.

**Construction** — Steel. Bright White face with insulated back.



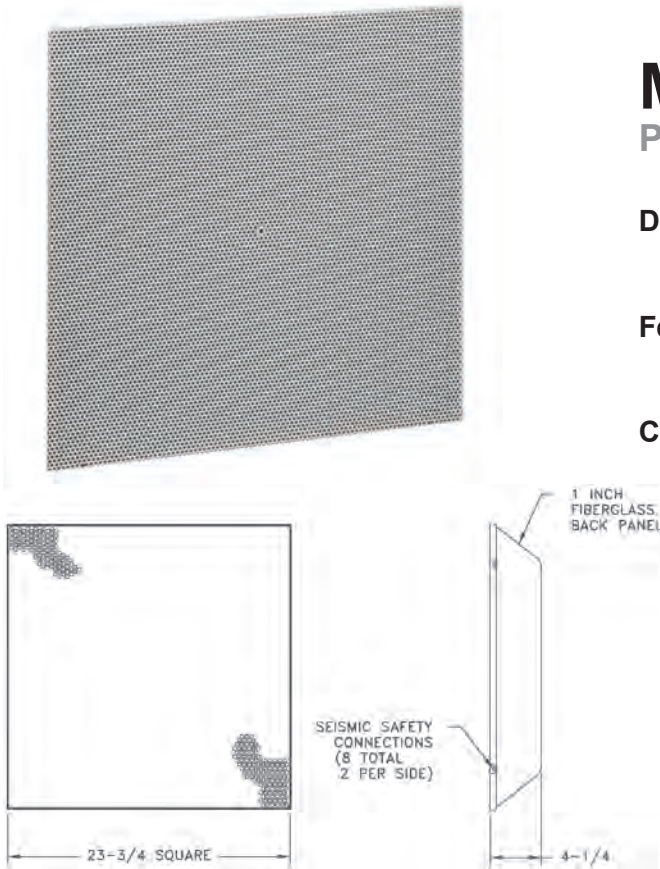
## Model 4230

### Perforated Return

**Design** — Matching perforated return for 4235 Supply.

**Features** — Utilizes molded fiberglass plenum. R6 insulation available.

**Construction** — Steel. Bright White face with insulated back.



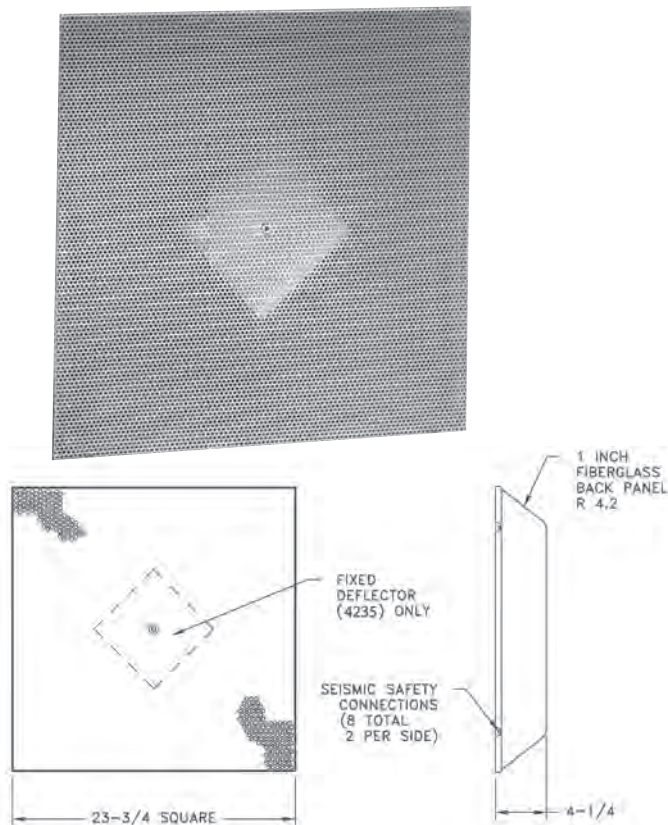
## Model 4235

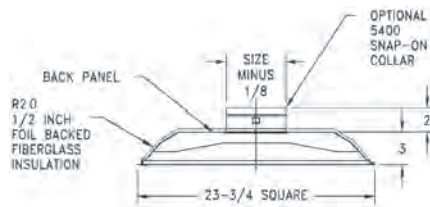
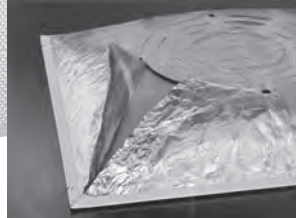
### Perforated Supply

**Design** — Model 4235 Perforated Supply Diffuser with stamped deflector pattern controller. Perforated steel panel has  $\frac{3}{16}$ " diameter holes on  $\frac{1}{4}$ " staggered centers.

**Features** — Utilizes molded fiberglass plenum. R4 insulation standard. R6 available.

**Construction** — Steel. Bright White face with insulated back.





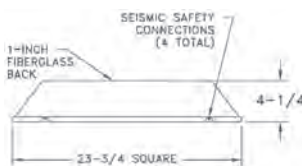
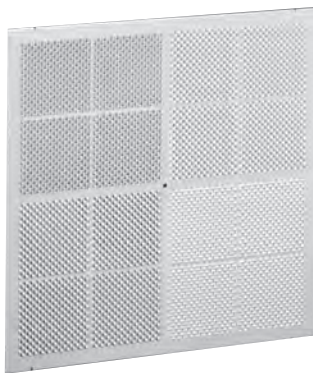
## Model AL 440

### Stamped Face Supply Diffuser

**Design** — Unique, aluminum face design provides an exceptional air diffusion pattern for high performance. Available in four-way through one-way or two-way corner.

**Features** — Air is distributed in thin layers along ceiling surface, allowing optimum dispersion of conditioned air.

**Construction** — Aluminum. Bright White face with insulated back.



## Model AL4240

### Four-Way Stamped-Face Ceiling Supply

**Design** — Unique, aluminum, four-way face design provides an exceptional air diffusion pattern for high performance.

**Features** — Air is distributed in thin layers along ceiling surface, allowing optimum dispersion of conditioned air.

**Construction** — Aluminum. Bright White face with insulated back.



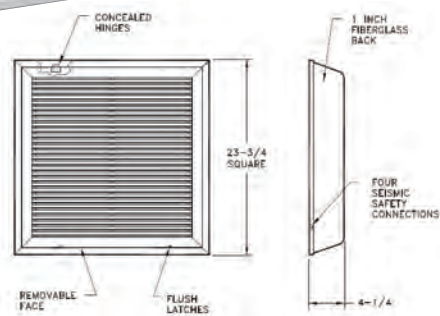
## Model 12PFFI

### Filter Frame, Perforated Return with Concealed Hinge

**Design** — Model 12PFFI is a filter frame perforated return.

**Features** — Removable perforated face. Concealed hinge. Includes molded fiberglass back with an R4.2 and R6 insulation value.

**Construction** — Steel. Bright White finish standard.



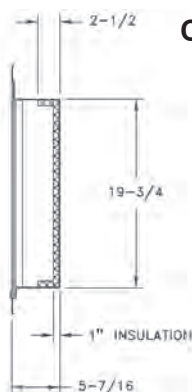
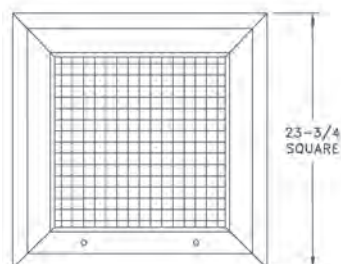
## Model S90HFFI

Filter Frame Fixed-Bar Return  
with Insulated Back for T-Bar Lay-In

**Design** — Model S90HFFI is a filter frame fixed-bar return.

**Features**— Fixed-bar design. Concealed hinges and cam lock latches. Removable face.

**Construction**— Steel. Bright White finish standard.



## Model 4205FF

Eggcrate Return Filter Grille  
Plenum-Backed, T-Bar Lay-In

**Design** — Eggcrate return filter grille with framed front panel.

**Features** — Flush cam-lock face retainers (2). 1/2" x 1/2" x 1/2" aluminum core. Hinged. R4.2 insulation.

**Construction** — Aluminum eggcrate with steel frame construction. Bright White finish standard.



## Model 1600

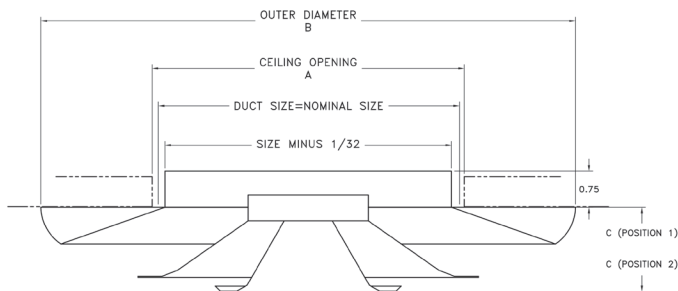
### Commercial Round Ceiling Diffuser



**Design** — Model 1600 is a three-cone ceiling diffuser, which provides 360° maximum air diffusion efficiency.

**Features** — Model 1600 has a five-step, manual ratchet positioning core, which allows air pattern to be adjusted from full horizontal flow to full vertical flow. Optional Damper (Model R52 duct-mount only) is also available, and must be ordered separately.

**Construction** — Steel. Bright White finish standard.



| Listed Size | A      | B      | C Pos. 1 | C Pos. 2 |
|-------------|--------|--------|----------|----------|
| 6           | 6-1/2  | 11-1/8 | 1-1/8    | 1-3/4    |
| 8           | 8-1/2  | 14-3/4 | 1-1/2    | 2-1/8    |
| 10          | 10-1/2 | 18-1/4 | 2-1/8    | 2-7/8    |
| 12          | 12-1/2 | 22     | 2-3/8    | 3-1/8    |
| 14          | 14-1/2 | 26     | 2-5/8    | 3-3/8    |
| 16          | 16-1/2 | 29     | 3-1/4    | 4        |
| 18          | 18-1/2 | 33-1/2 | 3-7/8    | 4-3/4    |



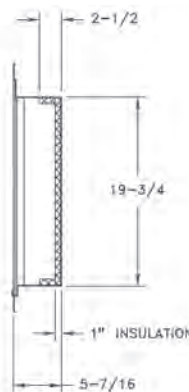
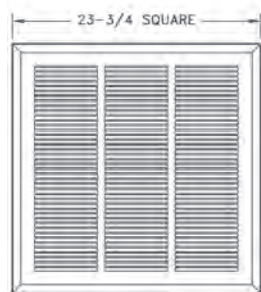
## Model 4260FF

### Stamped-Face Return Filter Grille - Plenum-Backed, T-Bar Lay-In

**Design** — Stamped-face return filter grille.

**Features** — Flush cam-lock face retainers (2). 1/2" blade spacing. Hinged. R4.2 insulation standard, R6 optional.

**Construction** — Steel construction. Bright White finish standard.





## Series AL2000

### Linear Slot Diffuser

**Design** — Adjustability of pattern-control blades allows various airflow patterns to be achieved as desired. A reduction in static pressure is obtained through the flexibility in movement of the pattern control blade. The unit can be installed easily in ceiling or sidewall.

**Features** —  $\frac{1}{2}$ ",  $\frac{3}{4}$ ", 1" slot widths available from 1 to 10 slots. Units are provided in lengths from 1 foot to 6 feet. Butt-joint alignment strips provided for continuous runs. Removable end caps available. Unit can be used as supply or return. Can be installed in most ceilings, using one of five fastening methods.

**Construction** — Extruded aluminum with adjustable deflectors. Bright White with black blades or clear anodized with black blades. Specify fastening method.

#### How to Order Series AL2000 (Example: AL20 50 1 04 B 2 E1 24 WHT)

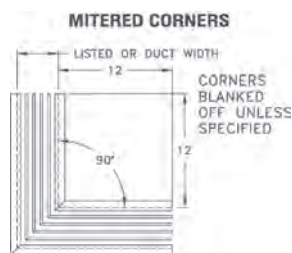
| AL20 | Type                                                                   | Style | No. of Slots | Margin                                                                             | Mounting Style | End Caps                                    | Length               | Finish     |
|------|------------------------------------------------------------------------|-------|--------------|------------------------------------------------------------------------------------|----------------|---------------------------------------------|----------------------|------------|
|      |                                                                        |       | 01 to 08     | B - $\frac{3}{4}$ "<br>E - $1\frac{1}{8}$ "<br>F - $1\frac{1}{8}$ " w/ screw holes |                | E1 - One end<br>E2 - Both ends<br>00 - None | Min. 12"<br>Max 999" | CLR<br>WHT |
|      | 1 - Diffuser only<br>2 - Diffuser w/ pattern controller                |       |              |                                                                                    |                |                                             |                      |            |
|      | 50 - $\frac{1}{2}$ " Slot<br>75 - $\frac{3}{4}$ " Slot<br>10 - 1" Slot |       |              |                                                                                    |                |                                             |                      |            |

**Note:** Margins ordered without mounting frame require inside hemmed duct for installation.

B0 - Diffuser only  
E1 - Hanger Bracket  
E2 - Mounting frame  
E0 - Diffuser only  
F0 - Screw holes in margin

**Note:** #1 mounting style requires inside hemmed duct for hanger bracket.

#### How to Order Mitered Corners (Example: AL20 75 C 01 F 1 MC90 C WHT)



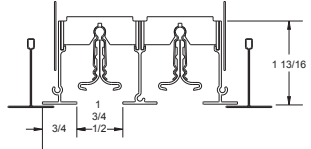
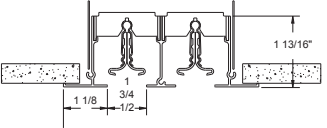
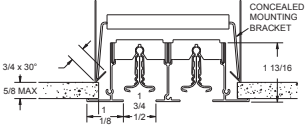
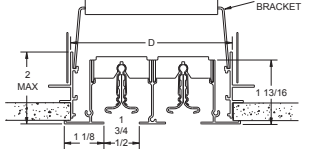
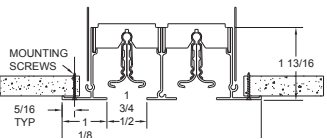
| AL20 | Type           | C | No. of Slots | Margin                                                                             | Mounting Style                                                                                                       | MC90 | Miter Type                                                   | Finish     |
|------|----------------|---|--------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|------|--------------------------------------------------------------|------------|
|      |                |   | 01 to 08     | B - $\frac{3}{4}$ "<br>E - $1\frac{1}{8}$ "<br>F - $1\frac{1}{8}$ " w/ screw holes |                                                                                                                      |      |                                                              | CLR<br>WHT |
|      | 50<br>75<br>10 |   |              |                                                                                    | B0 - Diffuser only<br>E1 - Hanger bracket<br>E2 - Mounting frame<br>E0 - Diffuser only<br>F0 - Screw holes in margin |      | C - Ceiling<br>SI - Sidewall inside<br>SO - Sidewall outside |            |

**Note:** #1 mounting style requires inside hemmed duct for hanger bracket.



# Series AL2000 Slot Diffusers

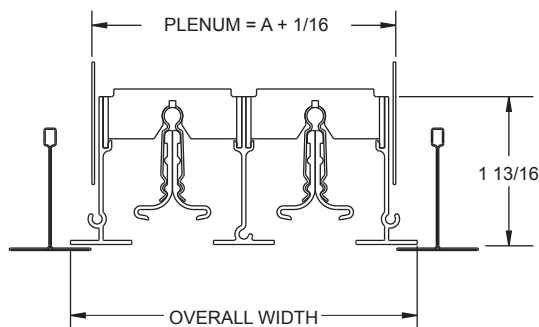
## Fastening Methods

| MARGIN STYLE                                                                        | SLOT               | DIFFUSER ONLY                                                                                    | with Hanger Bracket                                                                                                                        | with No. 2 installation frame                                                                     |
|-------------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
|    | 1"<br>3/4"<br>1/2" | <b>BO</b><br>   |                                                                                                                                            |                                                                                                   |
|   | 1"<br>3/4"<br>1/2" | <b>EO</b><br>  | <b>E1</b><br>                                           | <b>E2</b><br> |
|  | 1"<br>3/4"<br>1/2" | <b>FO</b><br> | <p><b>Note:</b> When using hanger brackets, E margin is recommended.</p> <p>L margin is for narrow regress T-Bar ceiling applications.</p> |                                                                                                   |

## STYLE B0

Also for  
T-Bar  
applications

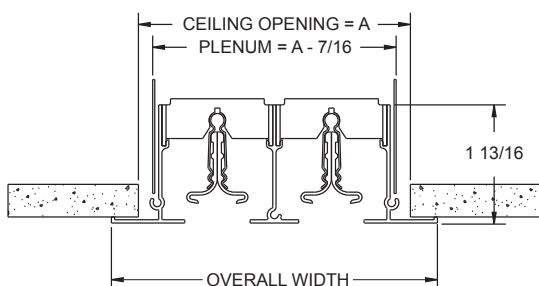
Order 22<sup>3</sup>/<sub>4</sub>" or  
46<sup>3</sup>/<sub>4</sub>" lengths  
with End Caps.



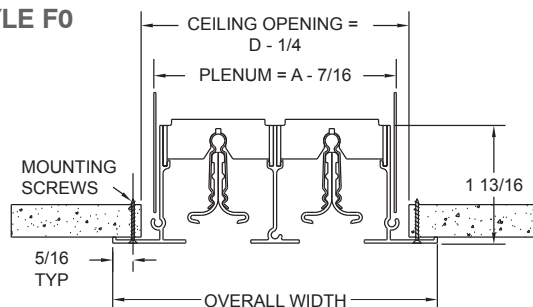
## STYLE E0

Also for  
T-Bar  
applications

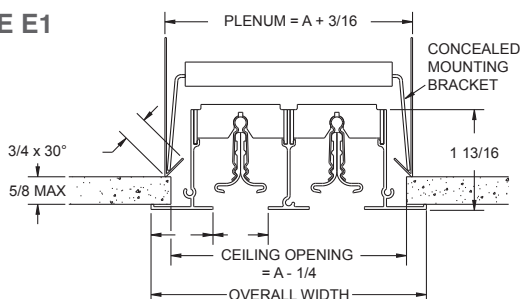
For E0, order 22"  
and 46" lengths  
with End Caps.



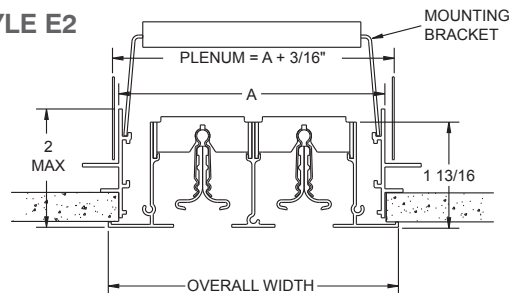
## STYLE F0



## STYLE E1



## STYLE E2



Style B0

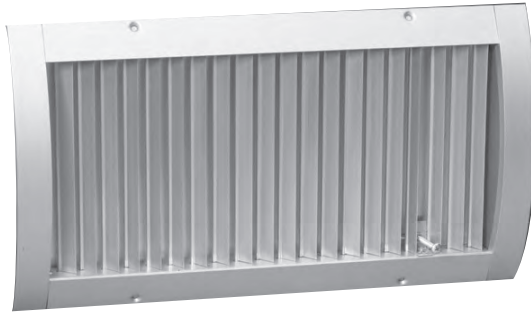
| Dimension | Type | Number of Slots |       |       |       |       |        |        |        | Duct Width | Overall Width |
|-----------|------|-----------------|-------|-------|-------|-------|--------|--------|--------|------------|---------------|
|           |      | 1               | 2     | 3     | 4     | 5     | 6      | 7      | 8      |            |               |
| A         | 50   | 1 3/8           | 2 5/8 | 3 7/8 | 5 1/8 | 6 3/8 | 7 5/8  | 8 7/8  | 10 1/8 | A + 1/16   | A + 5/8       |
|           | 75   | 1 5/8           | 3 1/8 | 4 5/8 | 6 1/8 | 7 5/8 | 9 1/8  | 10 5/8 | 12 1/8 | A + 1/16   | A + 5/8       |
|           | 10   | 1 7/8           | 3 5/8 | 5 3/8 | 7 1/8 | 8 7/8 | 10 5/8 | 12 3/8 | 14 1/8 | A + 1/16   | A + 5/8       |

Style E0/F0

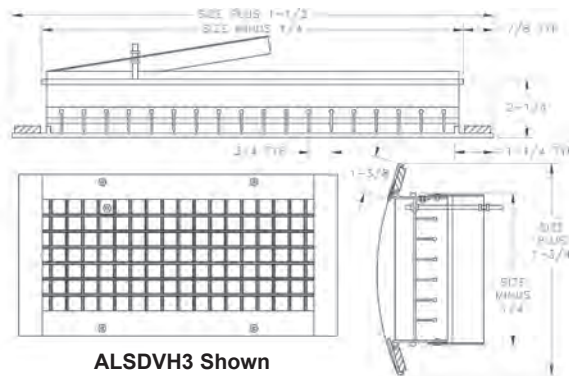
| Dimension | Type | Number of Slots |       |       |       |       |        |        |        | Duct Width | Overall Width |
|-----------|------|-----------------|-------|-------|-------|-------|--------|--------|--------|------------|---------------|
|           |      | 1               | 2     | 3     | 4     | 5     | 6      | 7      | 8      |            |               |
| A         | 50   | 1 7/8           | 3 1/8 | 4 3/8 | 5 5/8 | 6 7/8 | 8 1/8  | 9 3/8  | 10 5/8 | A - 7/16   | A + 7/8       |
|           | 75   | 2 1/8           | 3 5/8 | 5 1/8 | 6 5/8 | 8 1/8 | 9 5/8  | 11 1/8 | 12 5/8 | A - 7/16   | A + 7/8       |
|           | 10   | 2 3/8           | 4 1/8 | 5 7/8 | 7 5/8 | 9 3/8 | 11 1/8 | 12 7/8 | 14 5/8 | A - 7/16   | A + 7/8       |

Style E1/E2

| Dimension | Type | Number of Slots |       |       |       |       |        |        |        | Overall Width |
|-----------|------|-----------------|-------|-------|-------|-------|--------|--------|--------|---------------|
|           |      | 1               | 2     | 3     | 4     | 5     | 6      | 7      | 8      |               |
| A         | 50   | 2               | 3 1/4 | 4 1/2 | 5 3/4 | 7     | 8 1/8  | 9 1/2  | 10 3/4 | A + 3/4       |
|           | 75   | 2 1/4           | 3 3/4 | 5 1/4 | 6 3/4 | 8 1/4 | 9 3/4  | 11 1/4 | 12 3/4 | A + 3/4       |
|           | 10   | 2 1/2           | 4 1/4 | 6     | 7 3/4 | 9 1/2 | 11 1/4 | 13     | 14 3/4 | A + 3/4       |



\* Size restrictions apply.  
See price list for sizes and ordering information.



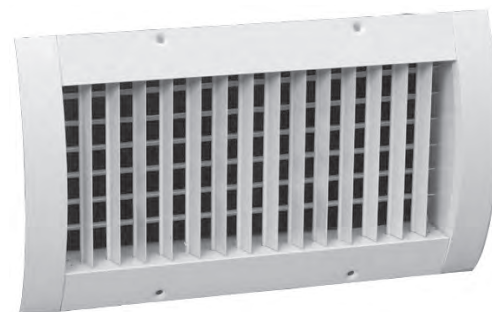
## Model ALSDV

### Single-Deflection Diffuser

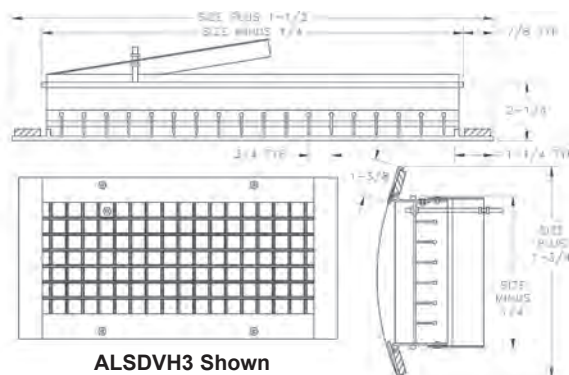
**Design** — Model ALSDV is made exclusively for quick, easy mounting on round metal ductwork.

**Features** — A single row of individually adjustable blades for deflection control. Optional face adjustable scoop to direct airflow. Includes gasket.

**Construction** — Aluminum. Bright White or Clear Anodized finish standard. Counter-sunk screw holes.



\* Size restrictions apply.  
See price list for sizes and ordering information.



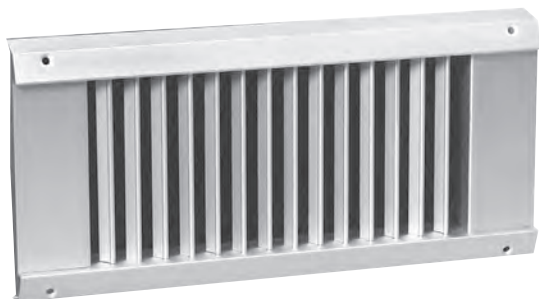
## Model ALSDVH

### Double-Deflection Diffuser

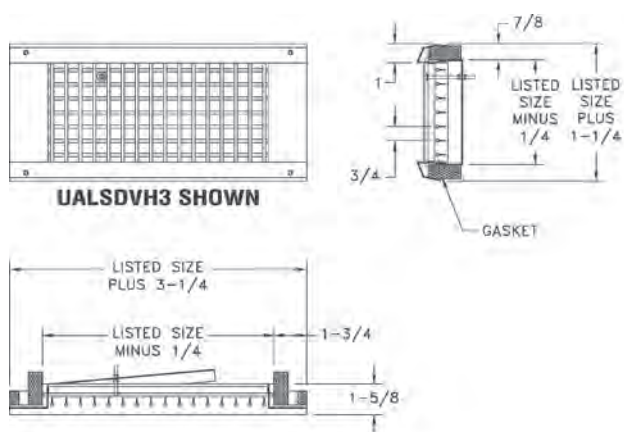
**Design** — Model ALSDVH is made exclusively for quick, easy mounting on round metal ductwork.

**Features** — Two rows of individually adjustable blades for horizontal and vertical deflection control. Optional face adjustable scoop to direct airflow. Includes gasket.

**Construction** — Aluminum. Bright White or Clear Anodized finish standard. Counter-sunk screw holes.



\* Size restrictions apply.  
See price list for sizes and ordering information.



## Model UALSDV

### Universal Single-Deflection Diffuser

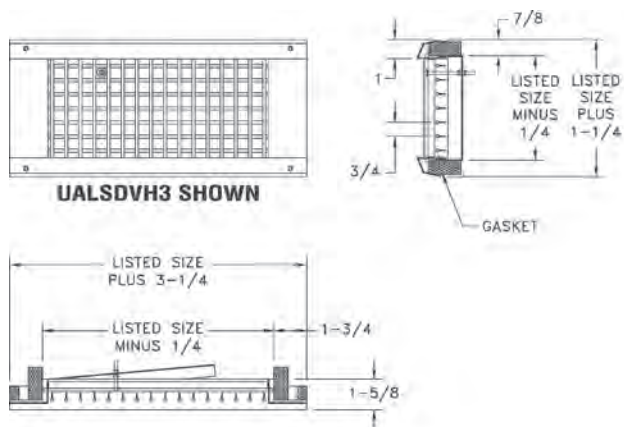
**Design** — Model UALSDV is made exclusively for quick, easy mounting on round metal ductwork.

**Features** — A single row of individually adjustable blades for deflection control. Optional face adjustable scoop to direct airflow. Fits duct sizes 6" on up, based on diffuser height. Includes gasket.

**Construction** — Aluminum. Bright White or Clear Anodized finish standard.



\* Size restrictions apply.  
See price list for sizes and ordering information.



## Model UALSDVH

### Universal Double-Deflection Diffuser

**Design** — Model UALSDVH is made exclusively for quick, easy mounting on round metal ductwork.

**Features** — Two rows of individually adjustable blades for horizontal and vertical deflection control. Optional face adjustable scoop to direct airflow. Fits duct sizes 6" on up, based on diffuser height. Includes gasket.

**Construction** — Aluminum. Bright White or Clear Anodized finish standard.

**For Models ALSDV and ALSDVH**  
Minimum Duct Diameter

*Width*

| <i>Height</i> |    | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
|---------------|----|----|----|----|----|----|----|----|----|----|
|               | 3  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 5  |
|               | 4  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|               | 6  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  | 8  |
|               | 8  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|               | 10 |    | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|               | 12 |    |    | 14 | 14 | 14 | 14 | 14 | 14 | 14 |

**Maximum duct diameter for all sizes is 36".**

**For Models UALSDV and UALSDVH**  
Minimum Duct Diameter

*Width*

| <i>Height</i> |    | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 30 | 36 |
|---------------|----|----|----|----|----|----|----|----|----|----|
|               | 3  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  | 6  |
|               | 4  | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
|               | 6  | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
|               | 8  |    |    | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
|               | 10 |    |    |    | 24 | 24 | 24 | 24 | 24 | 24 |
|               | 12 |    |    |    |    | 30 | 30 | 30 | 30 | 30 |





## Model OBD, ALOBD, OBDDM

### Opposed-Blade Damper

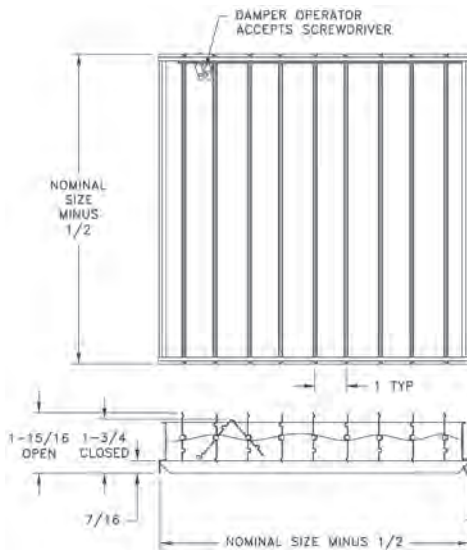
**Design** — Model OBD is used on registers and grilles. OBDDM is used for duct mounting. Opposed-blade dampers have vertical blades that move in opposite directions to control air volume over the entire face of a register or grille.

**Features** — Interwoven tension spring on blade pivot points permits positive setting from full-open to full-closed. Blades are screwdriver-operated. Extremely shallow depth allows damper use in shallow stackheads.

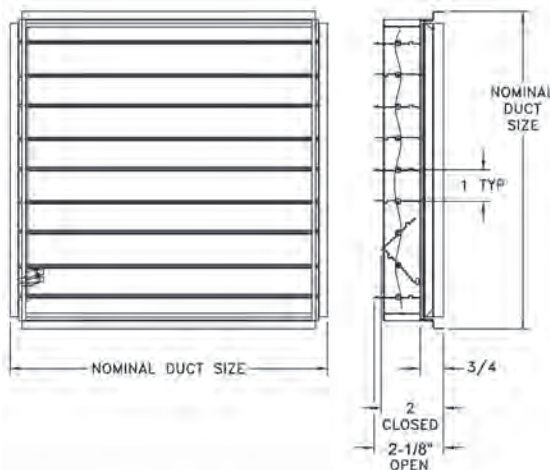
**Construction** — Extruded aluminum or steel. Mill finish standard.

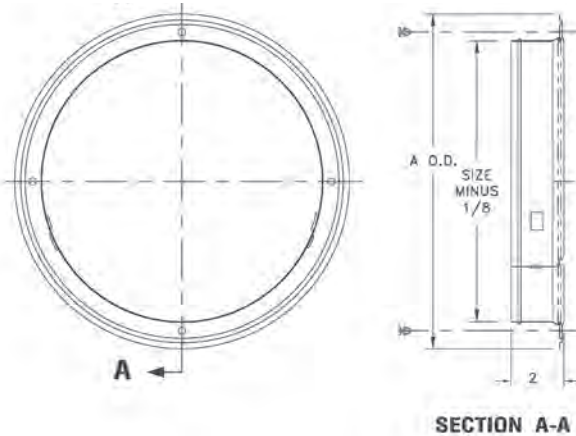
OBD14 available for use on 1400 series only.

OBD, ALOBD, OBDDM



OBD14 (Field installed only)





## Model 1565

### Collar Ring

**Design** — Snap-in design for easy installation.

**Features** — 2" high collar with bead provides secure flex duct connections.

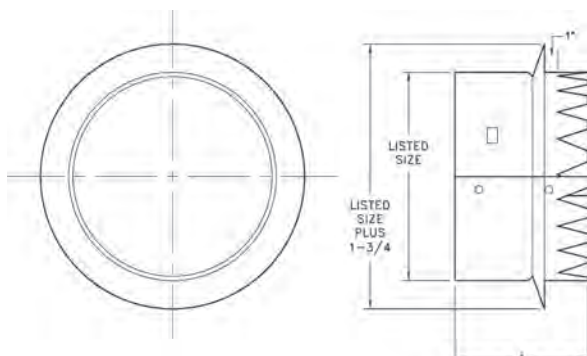
**Construction** — All-steel construction.

**Note:** 1565PP Push Pins required when using this collar with a molded fiberglass back panel.



1565PP

**Note:** Install pins from underside of molding insulation.



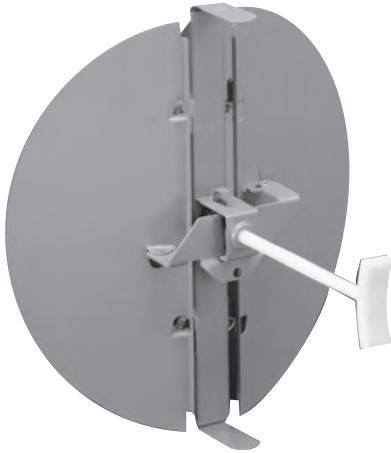
## Model R12

### Tab Collar

**Design** — Model R12 collars are designed for installation on fiberglass backed ceiling diffusers.

**Features** — The R12 is tabbed for easy installation. It accepts the R22 butterfly damper.

**Construction** — Galvanized steel construction.



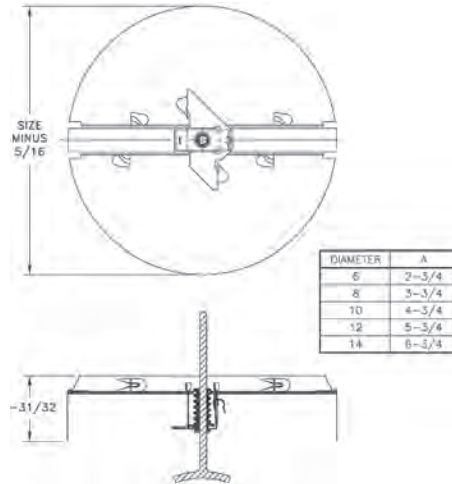
## Model R22

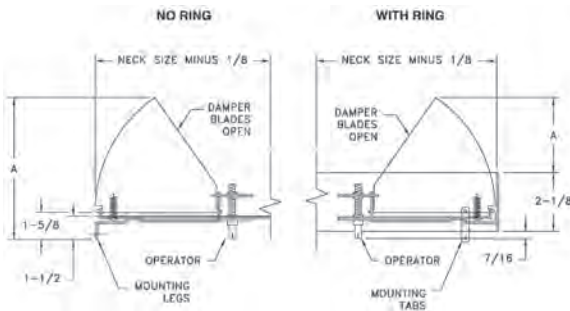
### Butterfly Damper

**Design** — Model R22 is designed for installation on round neck diffusers.

**Features** — The R22 is easily adjusted through the face of the diffuser with an included plastic damper operator. The R22 mounts quickly to diffuser stackhead.

**Construction** — Steel. Brown finish standard.





| SIZE | A       |
|------|---------|
| 6    | 4-1/4   |
| 7    | 4-11/16 |
| 8    | 5-1/8   |
| 10   | 6       |
| 12   | 6-7/8   |

| SIZE | A       |
|------|---------|
| 14   | 2-11/16 |
| 15   | 3       |
| 16   | 3-7/16  |
| 18   | 4-1/8   |
| 20   | 4-13/16 |
| 24   | 4-9/16  |
| 30   | 5-1/16  |
| 36   | 7-9/16  |

## Model R32

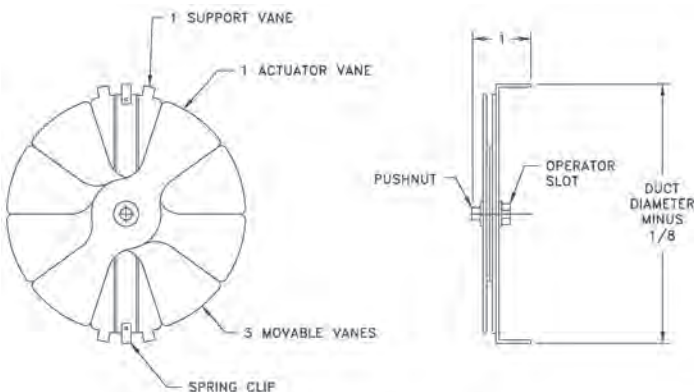
### Radial Opposed-Blade Damper

**Design** — Model R32 is designed for installation on round neck diffusers. Opposed-blade design provides exacting volume control.

**Features** — R32 is easily adjusted through the face of the diffuser with a screwdriver. The R32 mounts quickly to the diffuser stackhead.

**Construction** — Galvanized steel with Mill finish standard.

**Note:** 6" through 12" = R32  
14" through 36" = R32DM



## Model R42

### Radial-Blade Damper

**Design** — Model R42 is an economical damper designed for installation on round neck diffusers.

**Features** — The R42 is easily adjusted through the face of the diffuser with a screwdriver. The R42 mounts quickly to diffuser stackhead.

**Construction** — Galvanized steel with Mill finish standard.



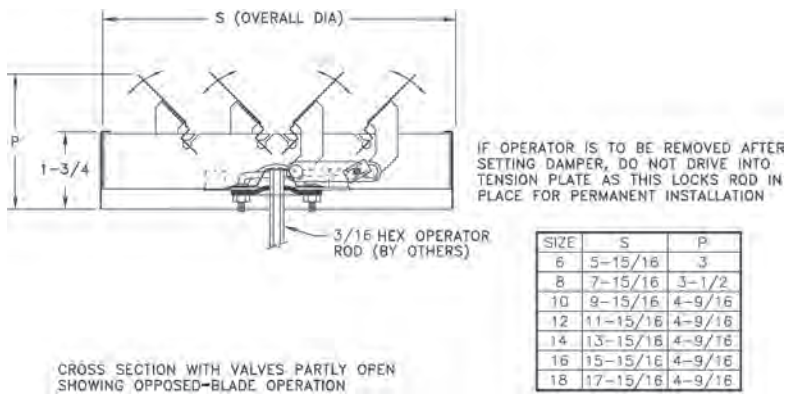
## Model R52

### Round Multi-Louver Damper

**Design** — Model R52 is an opposed-blade damper for use with Model 1600 Round Diffuser (duct-mount only).

**Features** — Opposed-blade finish.  
Available in 6, 8, 10, 12, 14, 16 and 18 sizes.

**Construction** — Steel construction.  
Bright White finish.







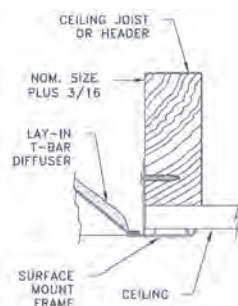
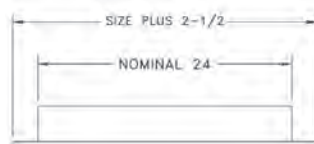
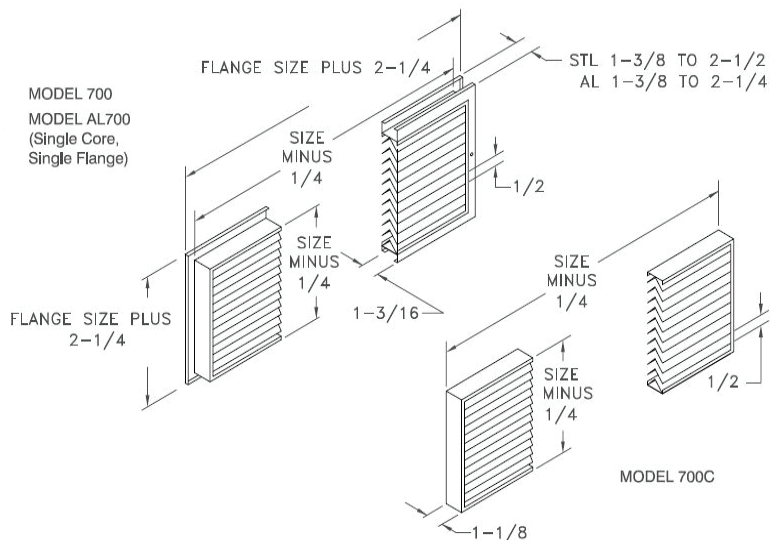
## Model 700 AL700

### Non-vision Door Grille

**Design** — Non-vision door grilles are designed for installation in doors, walls or partitions where constant air passage is required.

**Features** — Closely spaced fins are on  $\frac{1}{2}$ " centers for greater free areas. Available in three models. Model 700 has  $1\frac{1}{4}$ " border; 700A includes core, frame and auxiliary frame that adjusts to fit any thickness from  $1\frac{3}{8}$ " to  $2\frac{1}{2}$ "; 700C includes core and channel only.

**Construction** — Steel or aluminum. Bright White finish standard.



## Model AL10PF

### Plaster Frame

**Design** — Model AL10PF plaster frame allows installation of lay-in diffusers into framed sheet rock openings.

**Features** — Accepts all standard 24 x 24 lay-in T-Bar diffusers, as well as 12 x 12 and 12 x 24, 24 x 48.

**Construction** — Extruded aluminum construction. Bright White finish standard.





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