

T-Bar Construction Features

Our popular supply and return products for T-Bar ceilings are an innovative response to the challenge of creating a better indoor environment. T-Bar products combine clean appearance with installation ease, and include critical design details to ensure consistent performance. Glass fiber insulation minimizes condensation, and the aluminum foil vapor barrier protects the insulation from moisture, should condensation occur.

Patented adjustable deflectors permit a variety of directional patterns and minimizes static pressure loss.

A unique modular collar system provides a standard collar and damper unit, which can be shared between a number of different T-Bar products. In addition, Hart & Cooley offers specialty T-Bar products to meet specific design demands. Surfaire[®] diffusers feature deflector apertures that enhance mixing of conditioned air.

T-Bar products are offered in lanced, perforated, louvered and fixed-bar face styles, and with steel or molded fiberglass backs. They include a choice of easy mounting systems and adjustable damper designs.

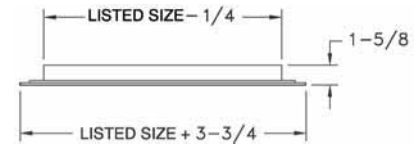


659T Steel Lanced Filter Grille

- Steel construction
- Lanced-face design with $\frac{1}{3}$ " blade spacing
- Flush, removable face with concealed latches and hinges can be installed in any direction
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

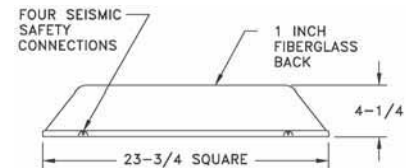
659T Available Sizes

20" x 20" with extended frame (overall $23\frac{3}{4}$ " x $23\frac{3}{4}$ ") for 24" x 24" openings
44" x 20" with extended frame (overall $47\frac{3}{4}$ " x $23\frac{3}{4}$ ") for 48"x24" opening



659TI Steel Lanced Filter Grille with Insulated Back

- Steel construction
- Lanced-face design with $\frac{1}{3}$ " blade spacing
- Flush, removable face with concealed latches and hinges can be installed in any direction
- Molded fiberglass back
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Frame includes four seismic safety connections
- Uses standard 1" disposable filters (not furnished)
- Bright White finish



See page 88 for fiberglass specifications.

659TI Available Size

20" x 20" with extended frame (overall $23\frac{3}{4}$ " x $23\frac{3}{4}$ ") for 24" x 24" openings

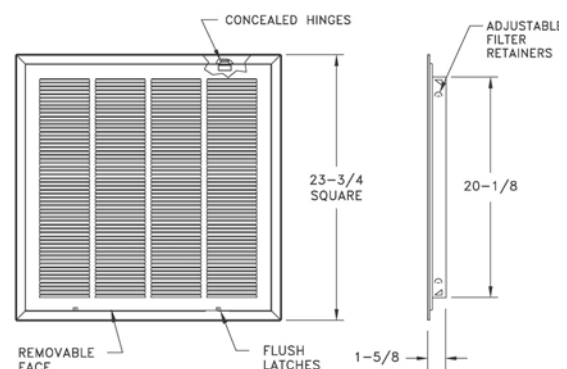


673T Steel Filter Grille

- Steel construction
- Lanced-face design with $\frac{1}{2}$ " blade spacing
- Flush, removable face with concealed latches and hinges can be installed in any direction
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

673T Available Size

20" x 20", overall $23\frac{3}{4}$ " x $23\frac{3}{4}$ "
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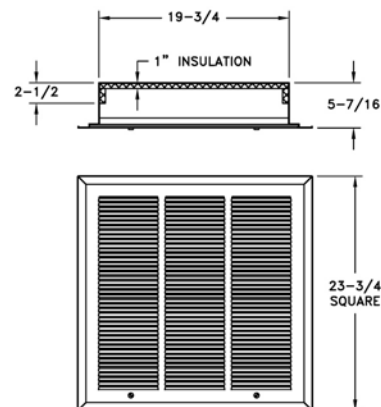
T-Bar Return-Air Filter Grilles



673TPI R6 Steel Filter Grille

- Steel construction
- Lanced-face design with $\frac{1}{2}$ " blade spacing
- Flush, removable face with concealed latches and hinges can be installed in any direction
- Can be installed in any direction
- Plenum box with R6 insulated ductboard
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

673TPI R6 Available Size
20" x 20", overall $23\frac{3}{4}$ " x $23\frac{3}{4}$ "



Molded Fiberglass Back Features

Fiberglass back meets or exceeds the following tests and ratings.

- Bonded foil vapor barrier minimizes condensation
- Deep plenum cavity improves performance
- 6" to 14" diameter prescored back allows neck to be determined at time of installation
- Back labeled with necessary code approvals
- Meets 25/50 tested in accordance with A.S.T.M. E84 (UL 723)
- UL 181 Erosion and Impact Test
- "R" Values of 4.2 and 6.0
- Approved for city of Los Angeles

Note: Attachment of molded fiberglass back and 5400 collar requires 5400PP (push pins).

Test and rating reports available upon written request.

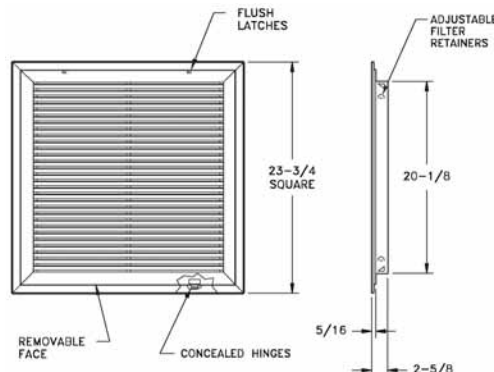


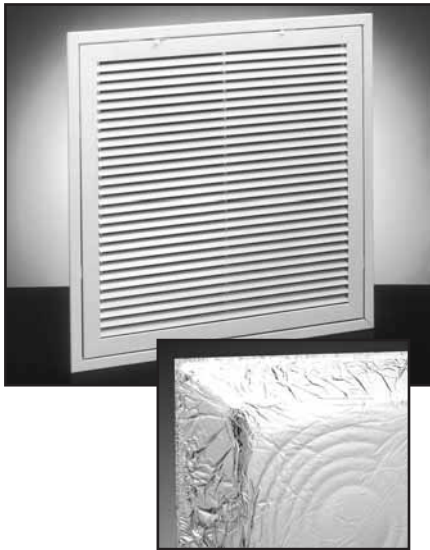
96AFBT Steel Fixed-Bar Filter Grille

- All-steel construction
- Bar-style face design
- Flush, removable face with concealed latches and hinges, can be installed in any direction
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

96AFBT Available Sizes

20" x 20", overall $23\frac{3}{4}$ " x $23\frac{3}{4}$ "
44" x 20", overall $47\frac{3}{4}$ " x $23\frac{3}{4}$ "





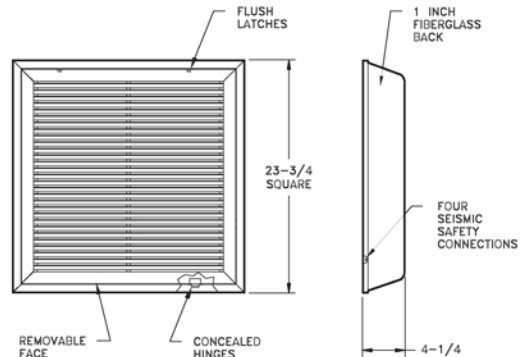
See page 88 for fiberglass specifications.

96AFBTI

Steel

Fixed-Bar Filter Grille with Fiberglass Back

- Steel construction
- Bar-style face design
- Flush, removable face with concealed latches and hinges, can be installed in any direction
- R4.2 molded fiberglass back
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Frame includes four seismic safety connections
- Uses standard 1" disposable filters (not furnished)
- Bright White finish



96AFBTI Available Size

20" x 20", overall 23³/₄" x 23³/₄"



RHF45T

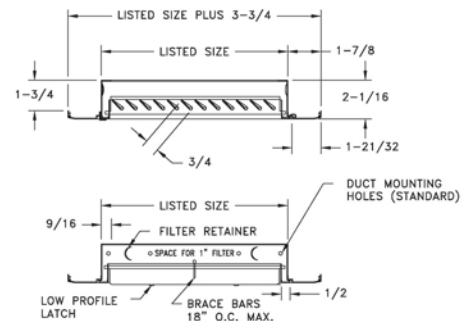
Aluminum

Bar-Style Filter Grille

- Extruded aluminum construction
- Bar-style face
- Hinged to filter frame
- Mounts flush with T-Bar ceilings
- Filter grilles equipped with spring slide fasteners
- Uses standard 1" disposable filter (not furnished)
- Bright White or Satin Anodized finish

RHF45T Available Sizes

20" x 20" with extended frame (overall 23³/₄" x 23³/₄") for 24" x 24" openings
44" x 20" with extended frame (overall 47³/₄" x 23³/₄") for 48" x 24" openings



RCBFT

Aluminum

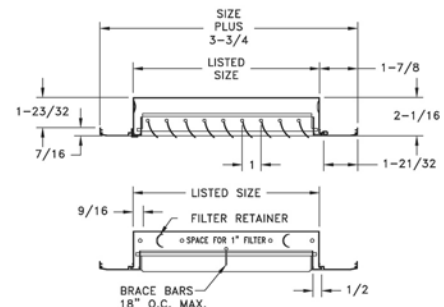
Curved-Blade Filter Grille

- Extruded aluminum construction
- Curved-blade style face
- Hinged to filter frame
- Mount flush with T-Bar ceilings
- Filter grilles equipped with spring slide fasteners
- Uses standard 1" disposable filter (not furnished)
- Bright White or Satin Anodized finish

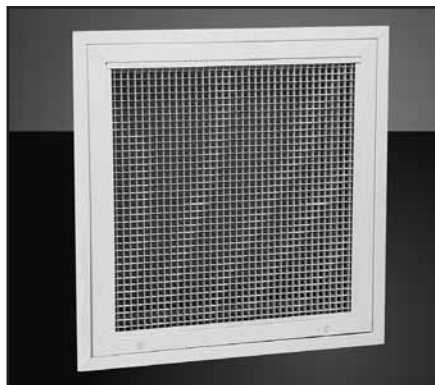
RCBFT Available Sizes

20" x 20" with extended frame (overall 23³/₄" x 23³/₄") for 24" x 24" openings
44" x 20" with extended frame (overall 47³/₄" x 23³/₄") for 48" x 24" openings

Engineering Data not available



T-Bar Return-Air Filter Grilles



REF5T/REF5TI

Aluminum Egg Crate Filter Grille

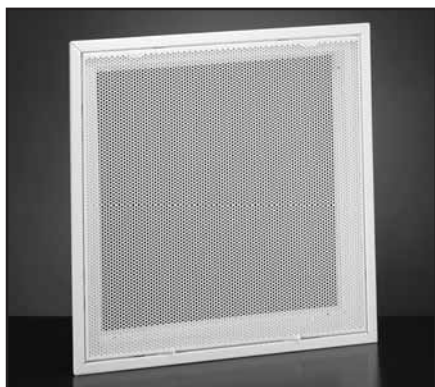
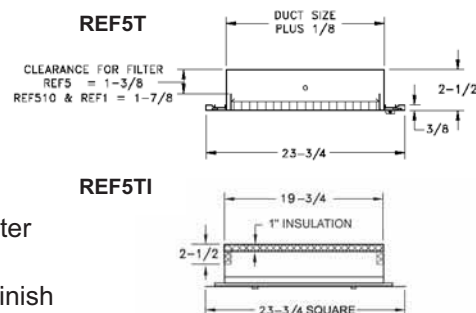
REF5T/
REF5TI

REF5T
only

Available Sizes

20" x 20" with extended frame (overall 23 ³ / ₄ " x 23 ³ / ₄ ") for 24" x 24" openings
44" x 20" with extended frame (overall 47 ³ / ₄ " x 23 ³ / ₄ ") for 48" x 24" openings

- Aluminum construction
- Egg crate style face
- Hinged to filter frame
- Mount flush with T-Bar ceilings
- Filter grilles equipped with thumb screw fasteners
- Uses standard 1" disposable filter (not furnished)
- Bright White or Mill Aluminum finish



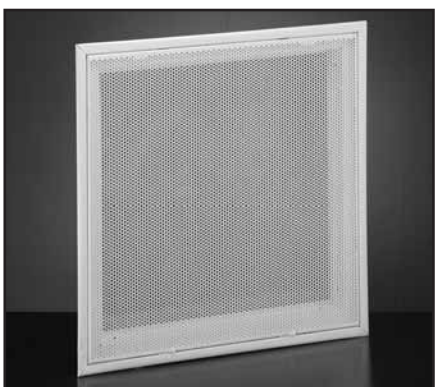
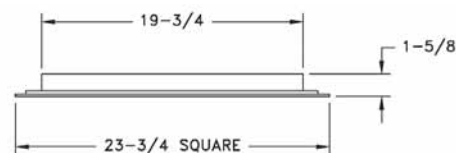
PFT Steel

Perforated Filter Grille

- Steel construction
- Perforated face design
- Flush, removable face with concealed latches and hinges, can be installed in any direction
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

PFT Available Size

20" x 20", overall 23³/₄" x 23³/₄"



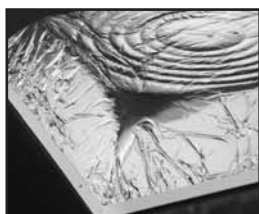
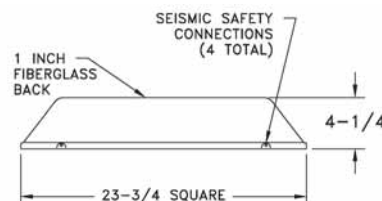
PFTI Steel

Perforated Filter Grille with Insulated Back

- Steel construction
- Perforated face design
- Flush, removable face with concealed latches and hinges, can be installed in any direction
- Molded fiberglass back, available in R4.2 or R6
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Frame includes four seismic safety connections
- Uses standard 1" disposable filters (not furnished)
- Bright White finish

PFTI Available Size

20" x 20", overall 23³/₄" x 23³/₄"



See page 88 for fiberglass specifications.



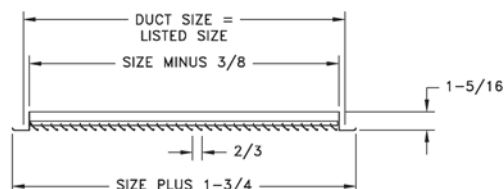
94AT Steel Bar-Style Return Grille

- Steel construction
- Mount flush with T-Bar ceilings
- Bright White finish

94AT Available Sizes

22" x 22" (overall 23³/₄" x 23³/₄") for 24" x 24" openings
46" x 22" (overall 47³/₄" x 23³/₄") for 48" x 24" openings

Engineering Data not available

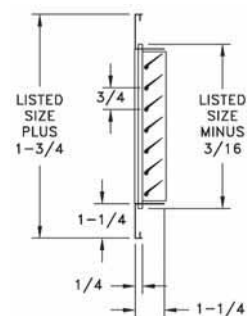


RH45T Aluminum Bar-Style Return Grille

- Extruded aluminum construction
- Horizontal bars at 45 degrees
- Mount flush with T-Bar ceilings
- Bright White or Satin Anodized finish

RH45T Available Sizes

22" x 22" (overall 23³/₄" x 23³/₄") for 24" x 24" openings
46" x 22" (overall 47³/₄" x 23³/₄") for 48" x 24" openings



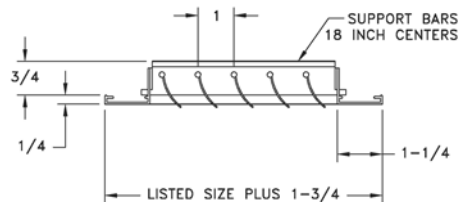
RCBT Aluminum Curved-Blade Return Grille

- Extruded aluminum construction
- Horizontal curved blades
- Mount flush with T-Bar ceilings
- Bright White or Satin Anodized finish

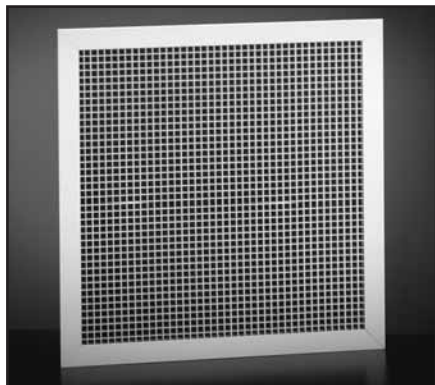
RCBT Available Sizes

22" x 22" (overall 23³/₄" x 23³/₄") for 24" x 24" openings
46" x 22" (overall 47³/₄" x 23³/₄") for 48" x 24" openings

Engineering Data not available



T-Bar Return-Air Grilles

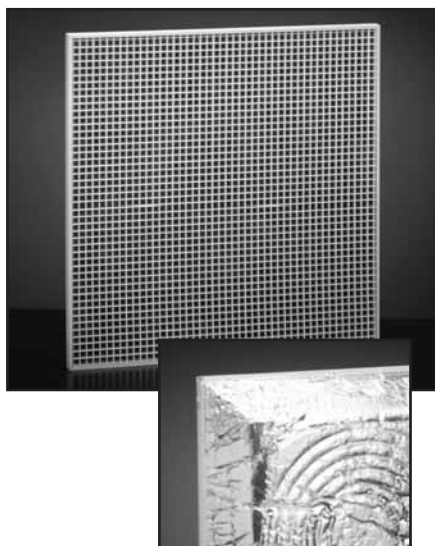
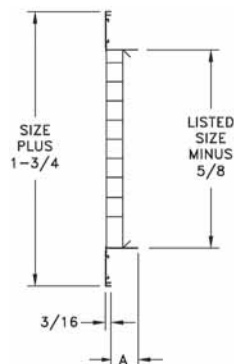


RE5T Aluminum Egg Crate Return Grille

- Aluminum construction
- Egg crate style face
- Mount flush with T-Bar ceilings
- Bright White or Mill Aluminum finish

RE5T Available Sizes

22" x 22" (overall 23 ³ / ₄ " x 23 ³ / ₄ ") for 24" x24" openings
22" x 46" (overall 47 ³ / ₄ " x 23 ³ / ₄ ") for 48" x 24" openings

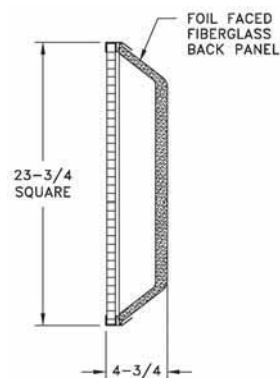


RE5TI Aluminum Egg Crate Return Grille with Insulated Back

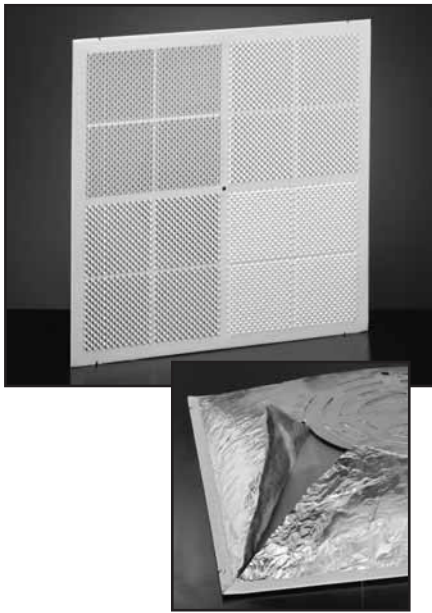
- Aluminum construction
- Egg crate style face
- R4.2 molded fiberglass back
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Bright White finish

RE5TI Available Size

grid core face 1/2" x 1/2" x 1/2"



See page 88 for fiberglass specifications.

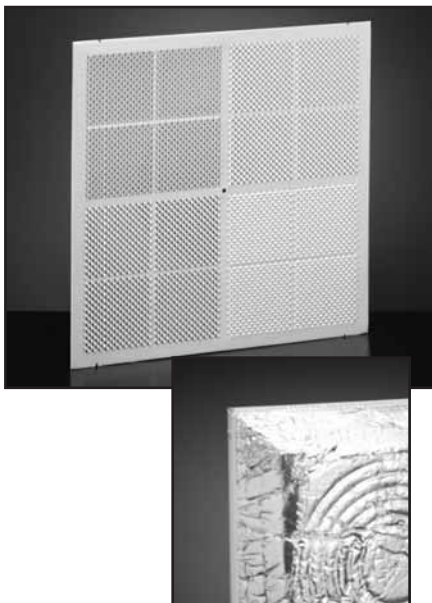
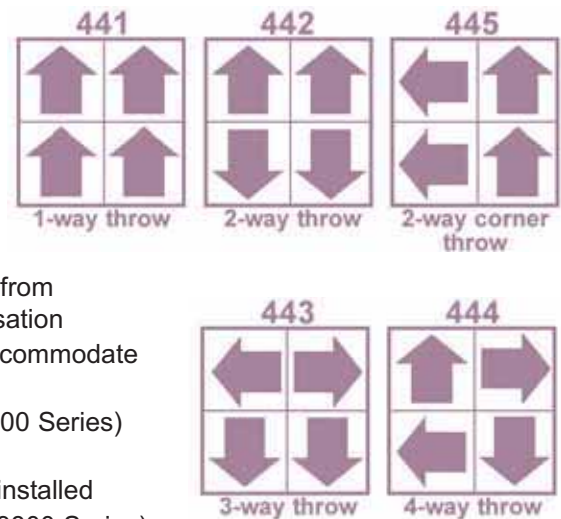
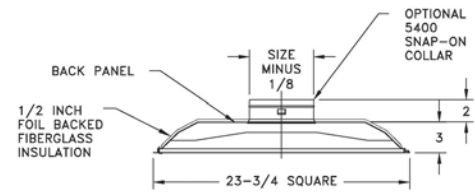


444 Surfaire® Aluminum Face Renovator Series Diffuser

- Aluminum face
- Unique deflector apertures
- Air distributed in thin layers along ceiling surface allowing optimum mixing of conditioned air
- Formed galvanized steel back panel
- Frame includes four seismic safety connections
- Back plate covered with glass fiber insulation to reduce condensation
- Aluminum foil vapor barrier protects insulation from harmful effects of condensation
- Insulation prescored to accommodate collar size desired
- Accepts snap-in collar (5400 Series) (6" to 12")
- 444 - 14" collar is factory-installed
- Utilizes butterfly damper (3800 Series) inserted in collar
- Damper adjusted through diffuser face to allow proper air balancing
- Bright White finish

444 Available Size

overall size 23³/₄" x 23³/₄"

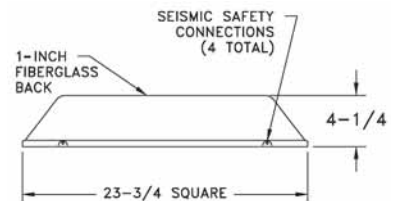


REN4 Aluminum Face Renovator Series Diffuser with Insulated Back

- Aluminum face
- Unique deflector apertures
- Molded fiberglass back panel, available in R4.2 or R6
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Frame includes four seismic safety connections
- Bright White finish

REN4 Available Size

20" x 20", overall 23³/₄" x 23³/₄"



See page 88 for fiberglass specifications.

T-Bar Surfaire/Renovator Diffusers



NEW!



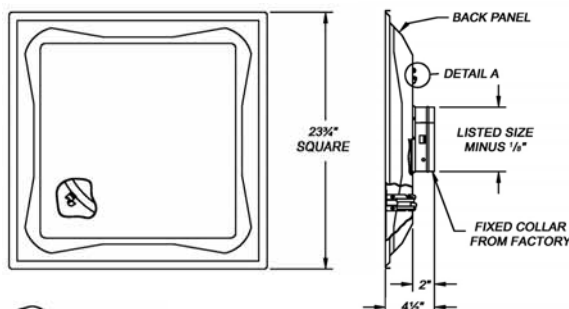
DPD/DPD R6

Steel

T-Bar Plate Diffuser

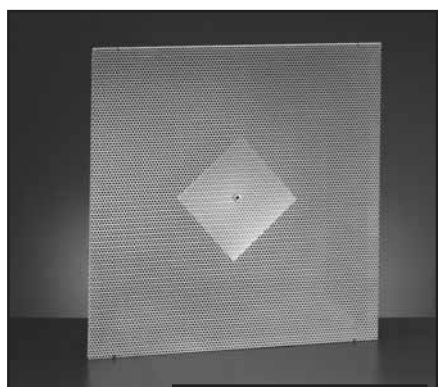
- Aesthetically appealing, single-face plate design
- 360° air diffusion pattern
- Detachable face plate
- 2" fixed collar
- Optional R6 insulated back (DPD R6)
- White finish

DPD/DPD R6 Available Sizes				
6"	8"	10"	12"	14"

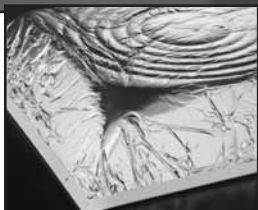


Removing Face Plate

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.



See page 88 for fiberglass specifications.



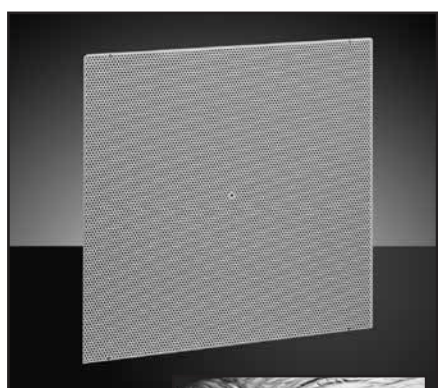
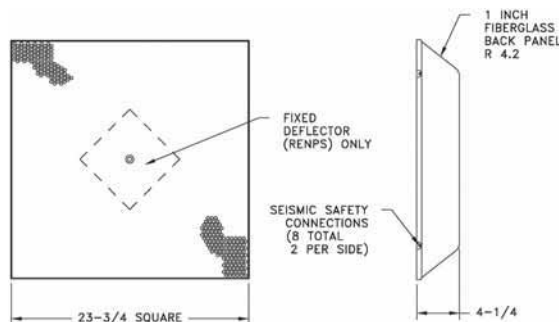
RENPS/ARENPS

RENPS R6

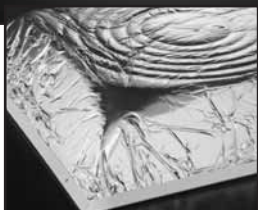
Steel/Aluminum Perforated Supply Diffuser with Insulated Back

- Perforated steel face with deflector
- Molded fiberglass back panel, available in R4.2 or R6
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- ARENPS constructed with aluminum face
- Bright White finish

RENPS Available Size
20" x 20", overall 23 3/4" x 23 3/4"



See page 88 for fiberglass specifications.



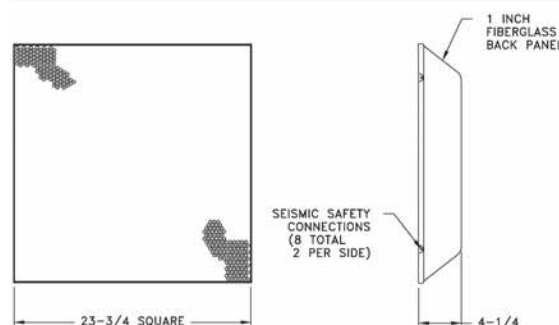
RENP

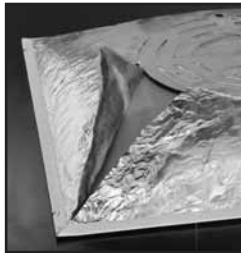
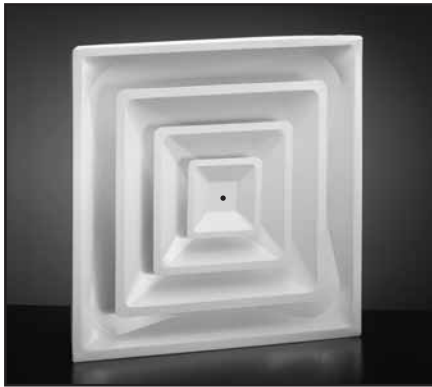
Steel

Perforated Return Diffuser with Insulated Back

- Perforated steel face
- R4.2 molded fiberglass back panel
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- Bright White finish

RENP Available Size
20" x 20", overall 23 3/4" x 23 3/4"

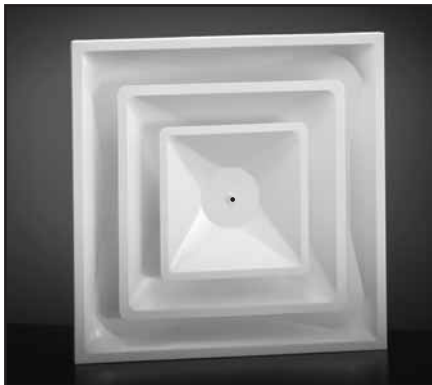
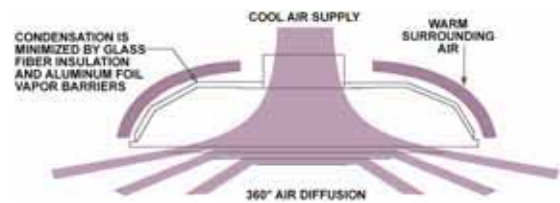
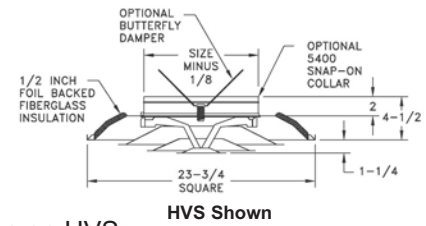




HVS/HVS R6 Steel High-Volume Supply

- Steel construction
- Provides high air volume delivery
- 360-degree air diffusion
- Formed back panel
- Fixed core
- Fiberglass insulation blanket with foil vapor barrier to minimize condensation on HVS
- Insulation prescored to accommodate collar size desired
- R6 molded fiberglass back on HVS R6; use 5400 with 5400PP
- Accepts unique 2" high snap-in collar (5400 series) (6" to 12")
- Utilizes butterfly damper (3800 Series) inserted in collar
- Bright White finish
- HVS14-14" collar factory-installed
- HVSPC-Powder coat finish for added corrosion resistance

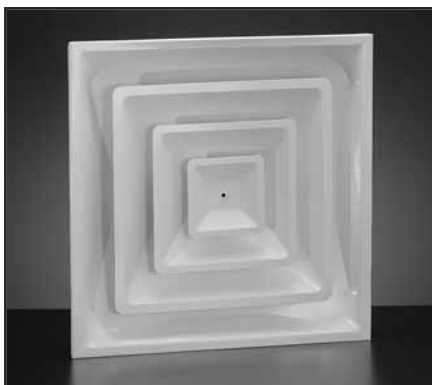
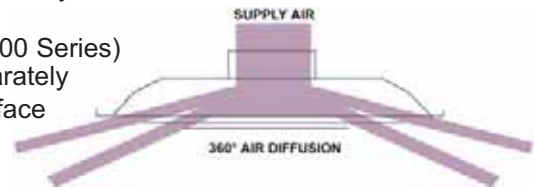
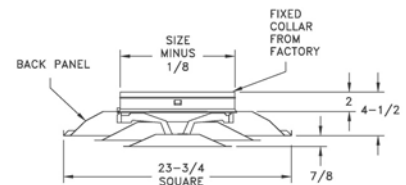
HVS Available Size
Overall Size 23 ³ / ₄ " x 23 ³ / ₄ "



FPD/AFP Steel/Aluminum Fixed-Pattern Diffuser

- Steel construction
- AFPD is Aluminum construction
- Provides high air volume delivery
- 360-degree air diffusion
- Two-cone fixed core
- Fixed collar 6" to 14"
- Unique 2" high collar permits easy flex connections
- Utilizes butterfly damper (3800 Series) inserted in collar; order separately
- Damper adjustable through face
- Formed back panel
- Bright White finish

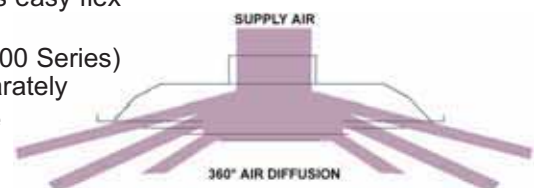
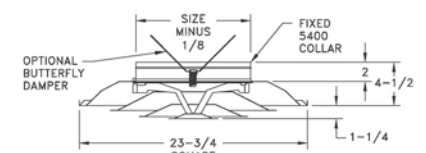
FPD T-Bar Available Size
Overall Size 23 ³ / ₄ " x 23 ³ / ₄ "



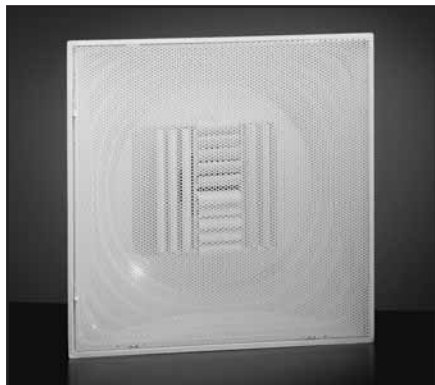
FPD3/FPD3 R6 Steel Fixed-Pattern Diffuser

- Steel construction
- Provides high air volume delivery
- 360-degree air diffusion
- Three cone fixed core
- Fixed collar 6" to 14"
- Unique 2" high collar permits easy flex connections
- Utilizes butterfly damper (3800 Series) inserted in collar—order separately
- Damper adjustable thru face
- Formed steel back panel
- Bright White finish
- FPD3 R6 features insulated back

FPD3 T-Bar Available Size
Overall Size 23 ³ / ₄ " x 23 ³ / ₄ "



T-Bar Perforated Supply/Return



**CBPS Curved-Blade
Perforated Supply**



**CBPR Curved-Blade
Perforated Return**

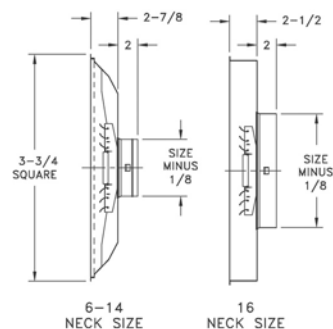
CBPS/CBPR

Steel

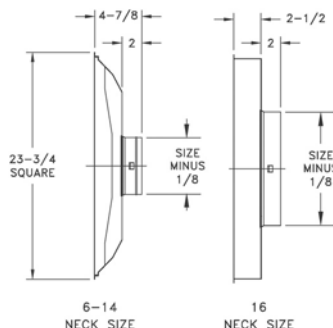
Curved-Blade Perforated Supply/Return

- Steel construction
- Removable hinged face allows for easy access to air pattern control core
- Face can be removed for cleaning
- Deep drawn back reduces static pressure drop
- Individually adjustable pattern deflectors factory-set at 4-way deflection; can be field-adjusted for 1, 2, 3-way air patterns
- Available in 6", 8", 10", 12", 14" and 16" diameter necks
- Unique 2" high collar permits easy flex connections
- Accepts 3800 Series butterfly damper (order separately)
- For 16", use T19
- Bright White finish

CBPS/CBPR Available Size
Overall Size 23³/₄" x 23³/₄"



CBPS



CBPR



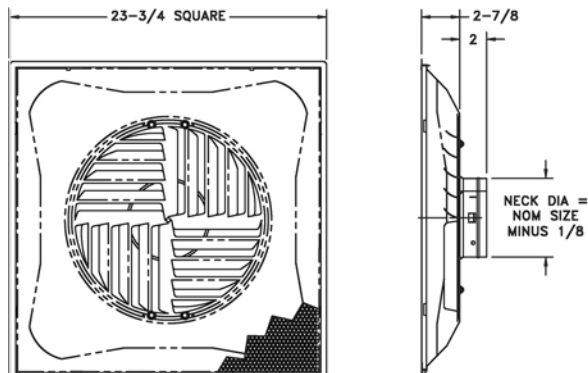
SCBPS

Steel

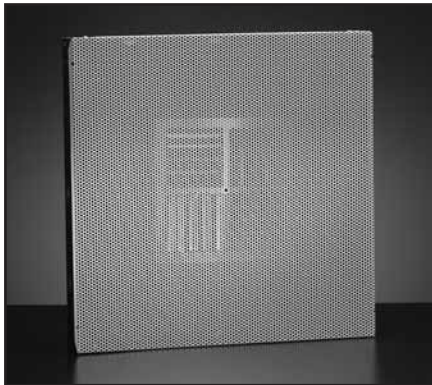
Stamped Curved-Blade Perforated Supply Diffuser

- Steel construction
- Removable hinged face allows for easy access to pattern control core
- Face can be removed for cleaning
- Deep drawn back reduces static pressure drop
- Available in 6", 8", 10", 12", and 14" diameter necks
- Unique 2" high collar permits easy flex connections
- Accepts 3800 Series butterfly damper (order separately)
- Bright White finish

SCBPS Available Size
Overall Size 23³/₄" x 23³/₄"



T-Bar Perforated Supply/Return



FBCS Flat Back Perforated Supply



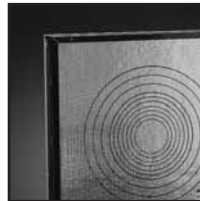
FBR Flat Back Return

FBCS/FBR

Steel

Flat Back Perforated Supply/Return Diffuser

- Supply diffuser with 4-way deflector
- Return without deflector
- 1" thick fiberglass back with foil vapor barrier
- Back with preprinted template accepts 6" to 18" spin collar or unique tab collar (6400 series)
- Bright White finish

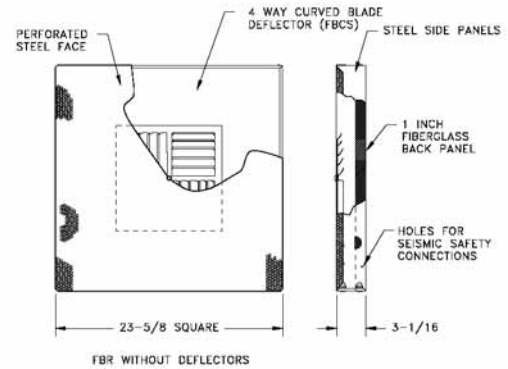


Back surface of insulation for FBCS/FBR

FBCS/FBR Available Size

Overall Size 23³/₄" x 23³/₄"

Engineering Data not available

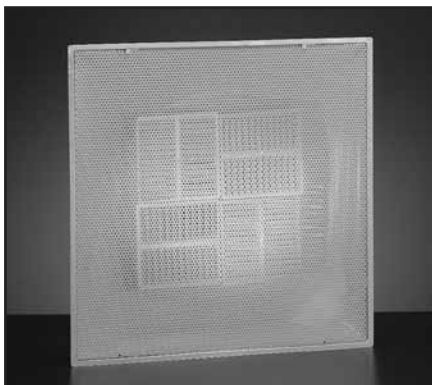


SBP

Steel

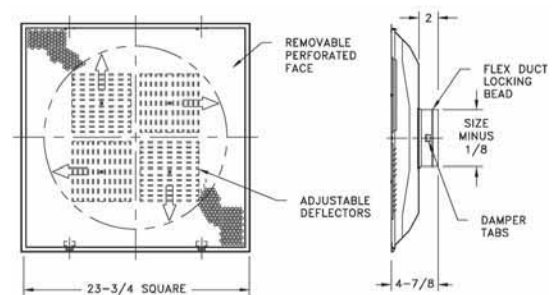
Shallow Back Perforated Supply

- Steel construction
- Available in 6" to 14" collar sizes
- Face-mounted, adjustable deflectors
- Removable perforated face
- Hinged/latched face for easy access to deflector and damper
- Bright White finish

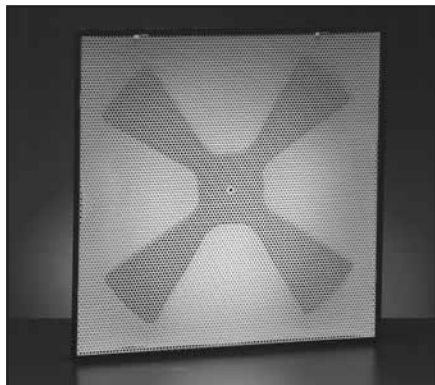


SBP Available Size

Overall Size 23³/₄" x 23³/₄"



T-Bar Perforated Supply/Return



RFPS Removable Face Perforated Supply
U.S. Pat. No. 4815934



RFPR Removable Face Perforated Return

RFPS/RFPR

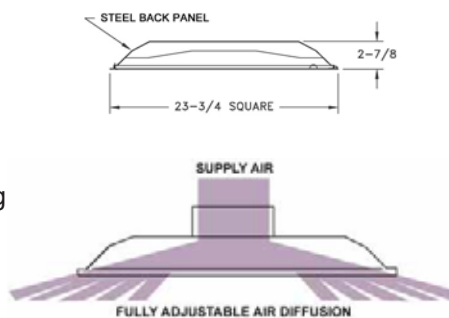
Steel

Removable Face Perforated Supply/Return

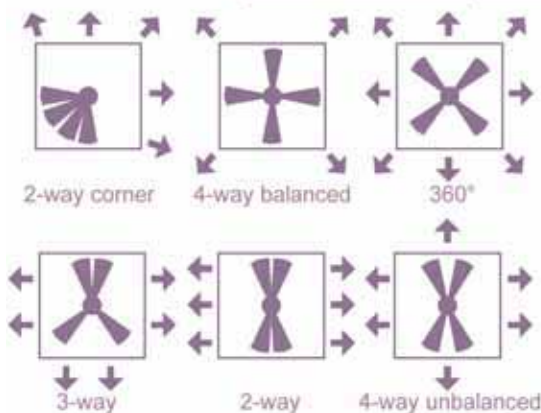
- Steel construction
- Removable hinged face for easy access to deflectors
- Face can be removed for cleaning
- Patented adjustable deflectors provide various directional patterns
- Black steel back "hides" inner construction
- Accepts 6" through 12" round snap in collar (5400 Series) – order separately
- For 14", order as RFPS14
- Utilizes butterfly damper in sizes 6" to 14" (3800 Series) inserted in collar
- Damper adjusted through diffuser face to allow proper air balancing
- Bright White finish

14" RFPR not available

RFPS/RFPR Available Size
Overall Size 23³/₄" x 23³/₄"



Pattern Selection: An almost infinite number of pattern selections are possible.



PDS

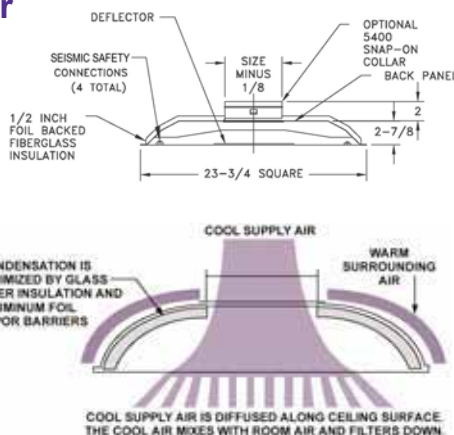
Steel

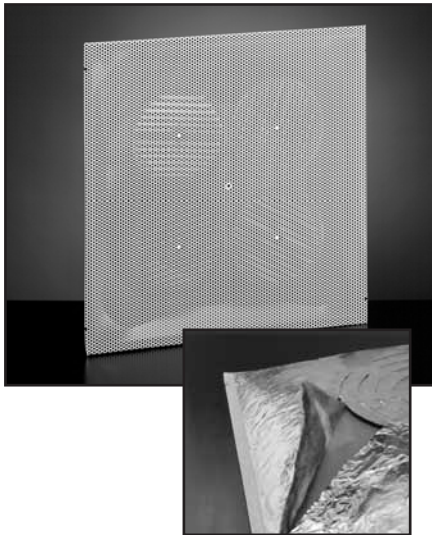
Perforated Supply Diffuser (with fixed deflector)

- Perforated steel face
- Formed steel black back panel
- Fiberglass insulation blanket with foil vapor barrier to minimize condensation
- Insulation prescored to accommodate collar size desired
- Accepts unique snap-in collar (5400 Series) 6" to 12" – order separately
- Available in 14" fixed collar (PDS14)
- Utilizes butterfly damper (3800 Series) inserted in collar
- Damper adjusted thru diffuser face to allow proper air balancing
- Bright White finish

PDS Available Size

Overall Size 23³/₄" x 23³/₄"





PDSD

Steel

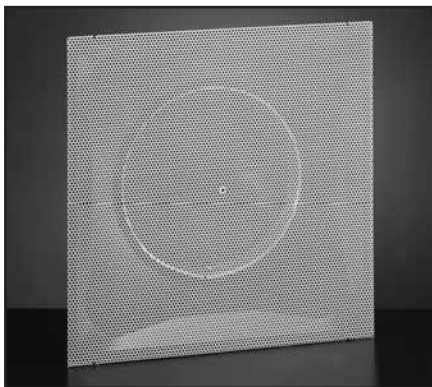
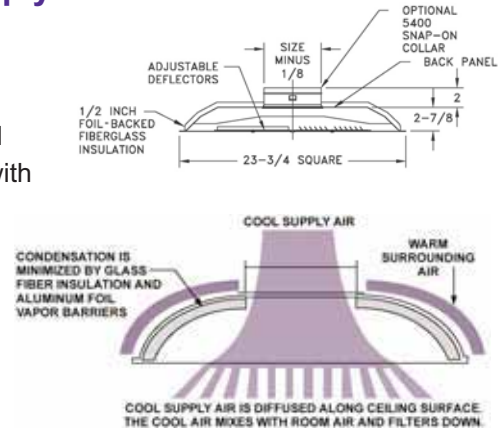
Perforated Diffuser Supply

(with adjustable deflector)

- Perforated steel face
- Face adjustable deflectors
- Formed steel black back panel
- Fiberglass insulation blanket with foil vapor barrier to minimize condensation
- Insulation prescored to accommodate collar size desired
- Accepts unique snap-in collar (5400 Series) 6" to 12" – order separately
- Available in 14" fixed collar (PDSD14)
- Utilizes butterfly damper (3800 Series) inserted in collar
- Damper adjusted through diffuser face to allow proper air balancing
- Bright White finish

PDSD Available Size

Overall Size 23³/₄" x 23³/₄"



PDR

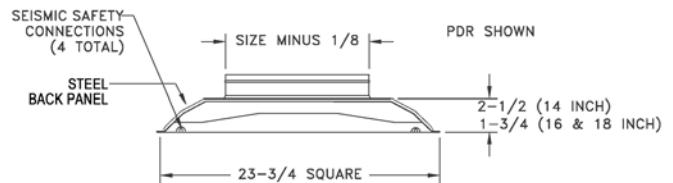
Steel

Perforated Return Grille

- 51% net free area
- Available with 14", 16", or 18" fixed collars
- Formed steel black back panel

PDR Available Size

Overall Size 23³/₄" x 23³/₄"



PD

Steel

Perforated Return Face Only

- Face only return for plenum ceilings
- Available in 24" x 12", 24" x 24" and 48" x 24" sizes

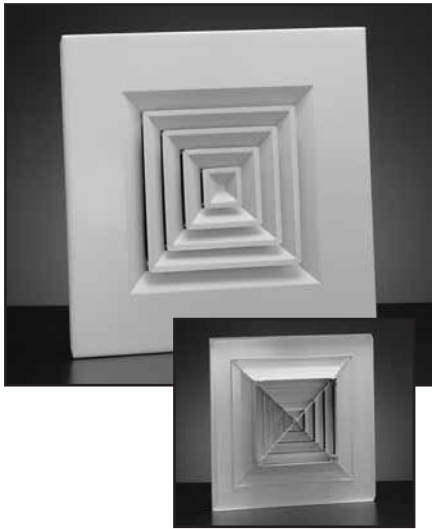
PDF

Steel

Perforated Return Face with Frame

- Perforated face with frame for duct connection
- Available in 24" x 12", 24" x 24" and 48" x 24" sizes
- Neck size = Listed Size 2"

T-Bar Directional/Modular Diffuser



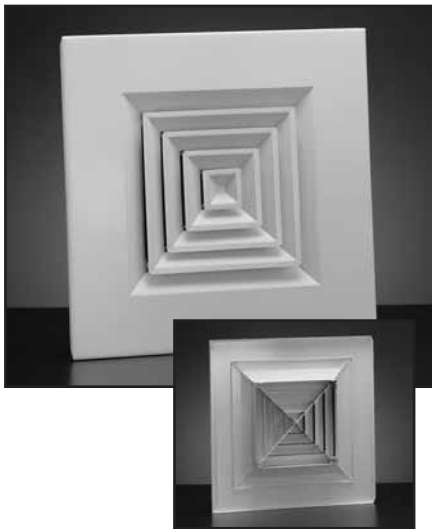
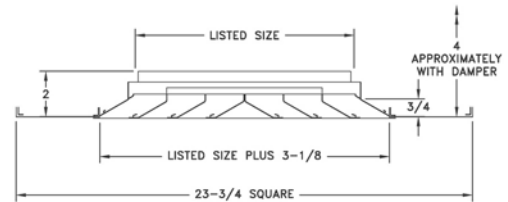
ART Aluminum Square and Rectangular T-Bar Diffusers

- Aluminum construction
- Available in one, two, three and four-way deflections
- Removable core
- Bright White or Satin Anodized finish

ART Available Sizes

6" x 6", 9" x 9", 12" x 12", 15" x 15", 21" x 21"

Note: For 18" x 18" neck, order ARE 18" x 18".



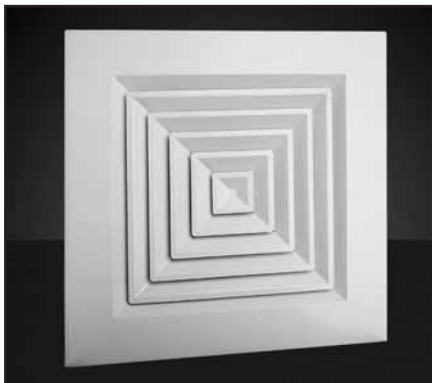
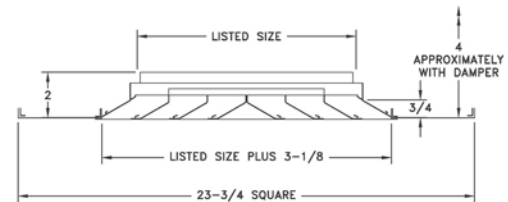
SRT Steel Square and Rectangular T-Bar Diffusers

- Steel construction
- Available in one, two, three and four-way deflections
- Removable core
- Bright White finish

SRT Available Sizes

6" x 6", 9" x 9", 12" x 12", 15" x 15"

Note: For 18" x 18" neck, order SRE 18" x 18".



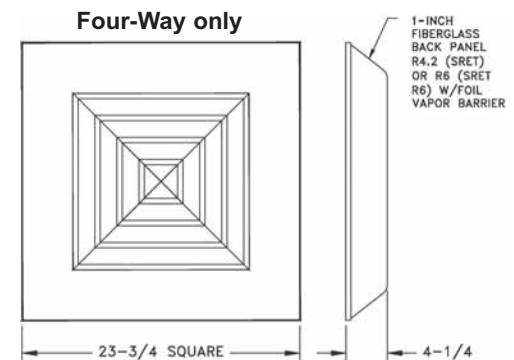
See page 88 for fiberglass specifications.

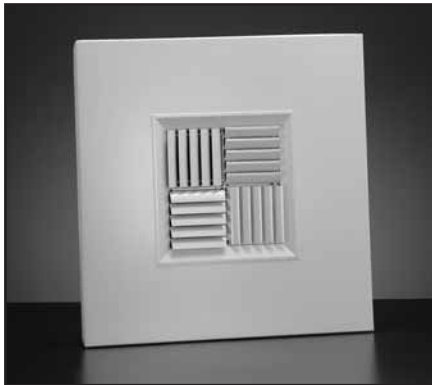
SRET/SRET R6 Steel Square and Rectangular T-Bar Diffusers

- Steel construction
- Standard SRET features R4.2 molded fiberglass back (R6 available with Model SRET R6)
- Accepts 6" to 14" unique tab collar (6400 series) or 6" to 12" unique snap-in collar (5400 and 5400PP series); also accepts standard spin-in collar
- 15" by 15" removable core
- Bright White finish

SRET Available Size

overall size 23³/₄" x 23³/₄"

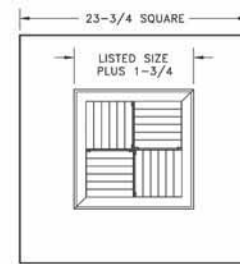




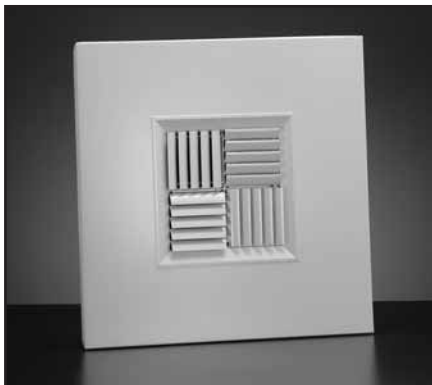
MCDST Aluminum Modular Core Diffuser

- Extruded aluminum diffuser in aluminum panel
- Modular cores provide one, two, three, and four-way air patterns
- Removable modules provide easy access to duct-mounted damper
- Available in 6" to 20"
- Available as MCDSTSR with square-to-round transition attached
- Bright White finish

MCDST/MCDSTSR Available Sizes
6" x 6", 8" x 8", 10" x 10", 12" x 12", 14" x 14", 16" x 16", 18" x 18", 20" x 20"



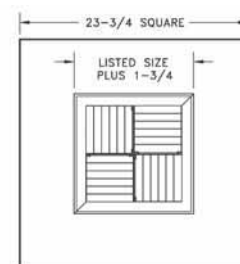
MCDSTSR



MCDSDT Aluminum Modular Core Diffuser with Damper

- Extruded aluminum diffuser in aluminum panel
- Modular cores provide one, two, three, and four-way air patterns
- Removable modules provide easy access to damper
- Aluminum opposed-blade damper
- Available in 6" to 20"
- Available as MCDSDTSR with square-to-round transition attached
- Bright White finish

MCDSDT/MCDSDTSR Available Sizes
6" x 6", 8" x 8", 10" x 10", 12" x 12", 14" x 14", 16" x 16", 18" x 18", 20" x 20"

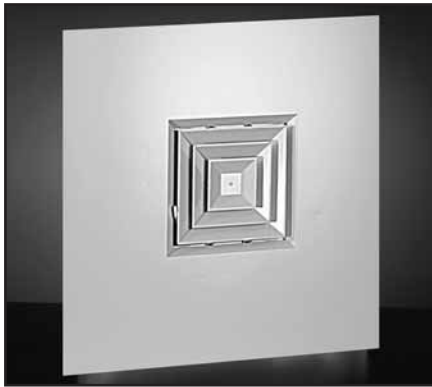


MCDSDT



MCDSDTSR

T-Bar Directional/Modular Diffuser



A504MS/A504OB
Four-way deflection



A501MS/A501OB
One-way deflection

A500P Steel T-Bar Panel for A500 Series Diffusers

- Adapts A500 diffuser to T-Bar installation
- Diffuser snaps in behind panel for clean appearance
- Steel panel
- Diffuser must be ordered separately
- Bright White finish



A502MS/A502OB
Two-way deflection



A503MS/A503OB
Three-way deflection

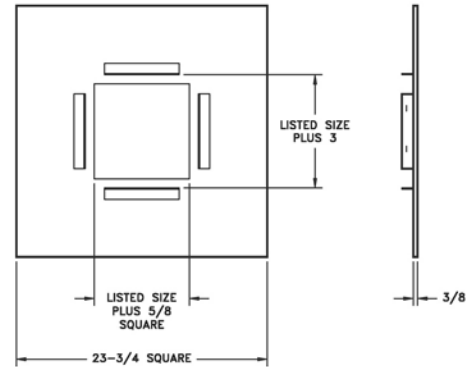


A505MS/A505OB
Two-way corner deflection

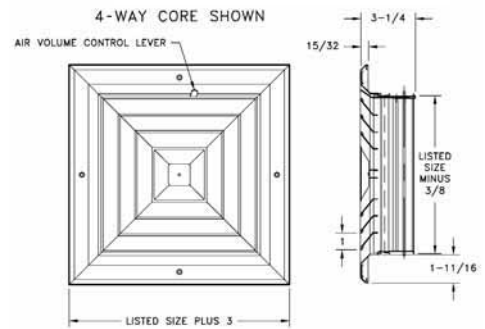
A500P T-Bar Panel Available Size

Opening 6" to 14"

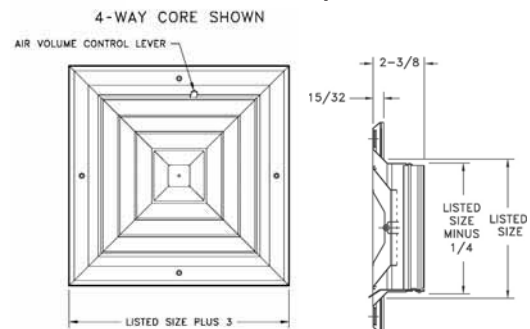
Overall 23³/₄" x 23³/₄"



OB Damper



MS Damper

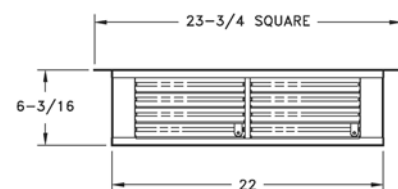


ECBXT Steel 4-Way Ceiling Diffuser Box

- Heavy-duty steel construction
- Adjustable dampers provide directional airflow or closure capabilities
- Bright White finish

ECBXT Available Size

22" x 22", Overall Size 23³/₄" x 23³/₄"

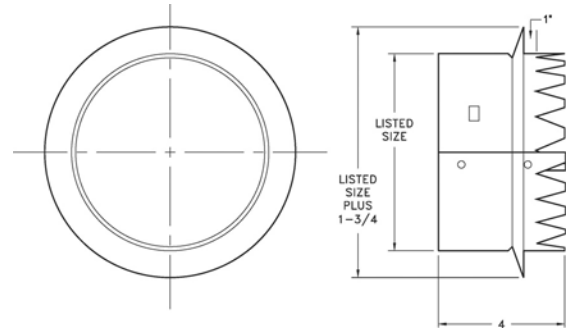




6400 Tab Collar

- Galvanized steel construction
- For use with fiberglass-backed ceiling diffusers
- Tabbed for easy installation
- Accepts 3800 Series damper

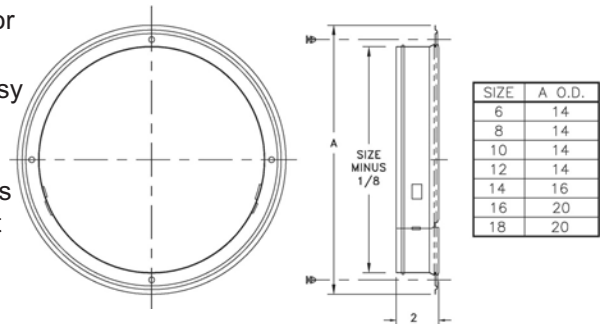
6400 Series Available Sizes					
6"	8"	10"	12"	14"	



5400 Series Collar Ring*

- Unique snap-in design for easy installation
- 2" high collar permits easy flex connections
- Bead on collar improves the strength and provides retention for flexible duct connections

5400 Series Available Sizes										
6"	7"	8"	9"	10"	12"	14"*	16"	18"		



*14" collar is mounted to diffuser at factory for steel back panels only.

16" and 18" available for PDR only.

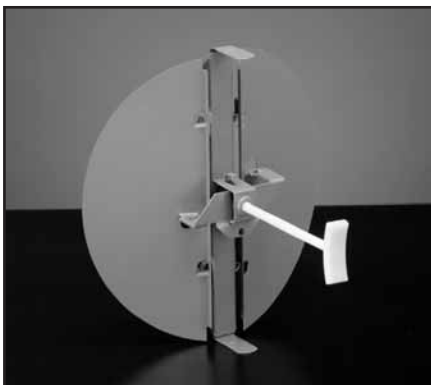
Note: Uses 5400PP (black push pins) with insulated back panels for collar sizes 6" to 12" only.



5400PP Push Pins

- Attaches 5400 collar to molded fiberglass back for the following products:

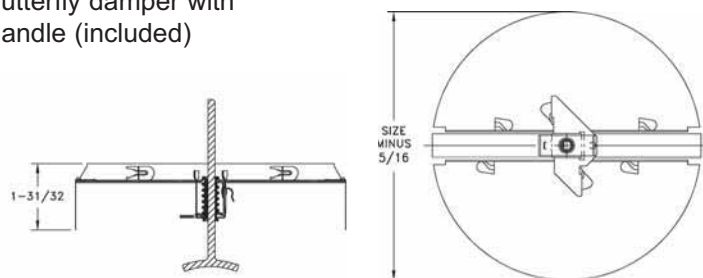
659TI 1 1/4" long
PFTI 1 1/4" diameter head
REN
RENPS/RENPS R6
RE5TI
96AFBTI
REN4
HVS R6
SRET/SRET R6



3800 Series Damper

- Adjustable butterfly damper with removable handle (included)
- For use with 5400 Series collar
- Golden Sand finish

3800 Series Available Sizes							
6"	7"	8"	9"	10"	12"	14"	



T-Bar Accessories

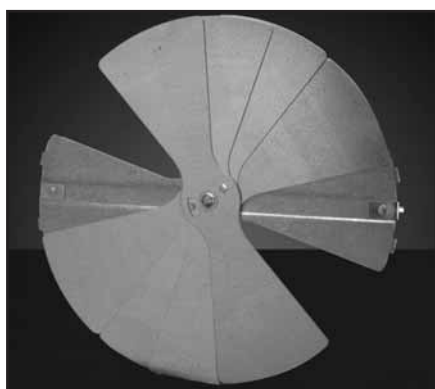
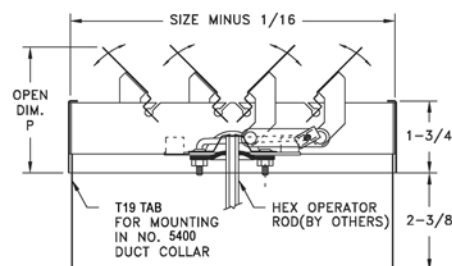


T19 Series Damper

- Multi-blade damper
- Tabs for easy installation
- For use with 5400 Series collar
- Bright White finish

Note: $\frac{3}{16}$ hex operator by others

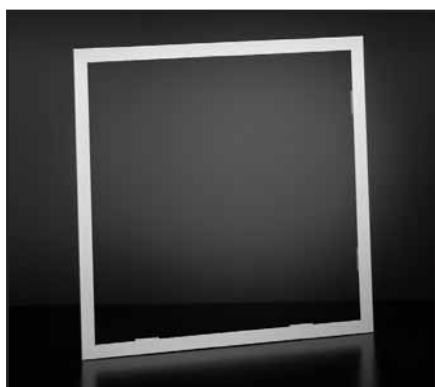
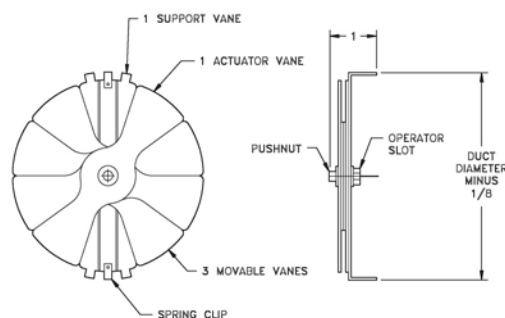
T19 Series Available Sizes					
6"	8"	10"	12"	14"	16"



RD Radial Damper

- Galvanized steel construction
- Face-adjustable
- For use with round neck diffusers
- Mill finish

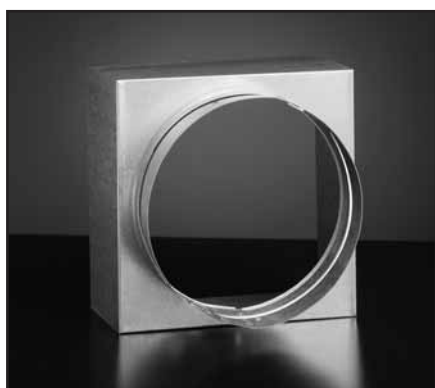
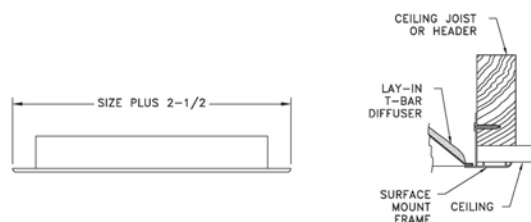
RD Available Sizes				
6"	8"	10"	12"	14"



SMF Aluminum Surface Mount Frame

- Aluminum construction
- Permits installation of standard T-Bar diffusers in a plaster ceiling
- Accepts standard T-Bar diffusers
- Bright White finish

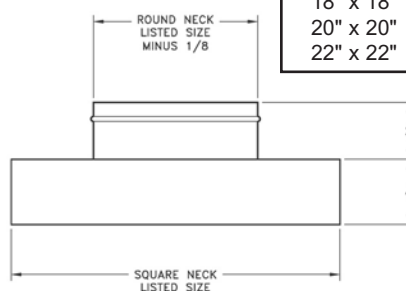
SMF Available Sizes	
12" x 12", 24" x 12", 24" x 24", 24" x 48"	

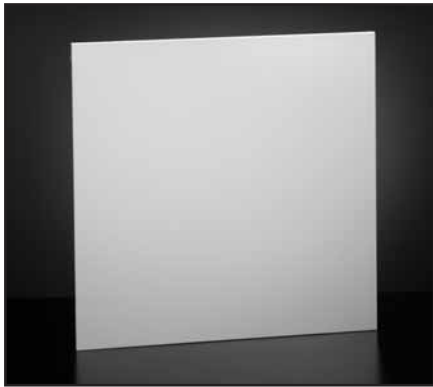


SR Steel Square-to-Round Transition

- Galvanized steel construction
- Allows flex duct installation with square neck diffusers
- Round collar accepts 3800 butterfly damper
- Unique 2" high collar

SR Available Sizes	
Square Size	Round Neck
6" x 6"	6"
9" x 9"	6", 8"
12" x 12"	10", 12"
15" x 15"	12", 14"
18" x 18"	16", 18"
20" x 20"	14", 16", 18"
22" x 22"	14", 16", 18"





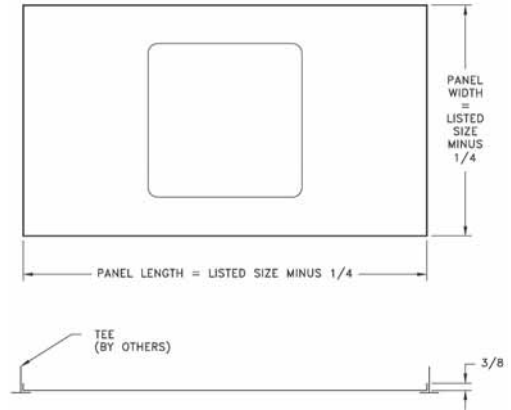
P Filler Panel

- Steel or aluminum construction
- Available in 9 sizes from 12" x 12" to 48" x 48" in 12" increments
- Bright White finish

Diffusers are factory-installed.

P Filler Panel Available Sizes

12" x 12", 24" x 12", 36" x 12",
48" x 12", 24" x 24", 36" x 24",
48" x 24", 36" x 36", 48" x 48"



Miscellaneous

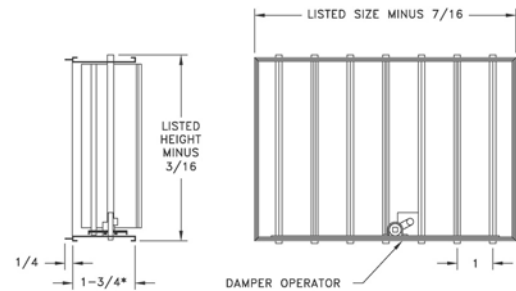


AD Aluminum Opposed-Blade Damper

- Extruded aluminum construction
- Opposed-blade damper
- Controls the air volume from full flow to shut-off

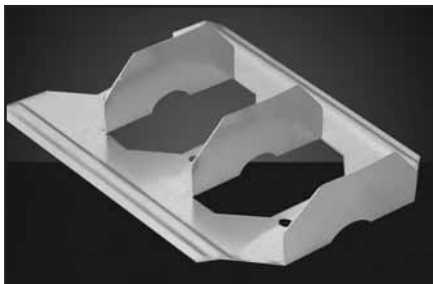
AD Available Sizes

Minimum: 6" x 4"
Maximum: 24" x 24"



Model VN Vane

- Available in the following models:
2", 4" and 4" acoustical
- Constructed from 24-gauge (4") and 26-gauge (2") galvanized steel
- 10' lengths
- Assembles quickly and easily to rail without screws or fasteners
- Acoustical vane utilizes a perforated inner vane wall and insulation for sound absorption



Model RA Rail

- Available in the following models:
2" and 4" widths
- Constructed from 22-gauge galvanized steel
- 10' lengths
- Assembles quickly and easily to vane with self-aligning tabs
- Extra wide flange for easy mounting



Vane and Rail assembly

Miscellaneous



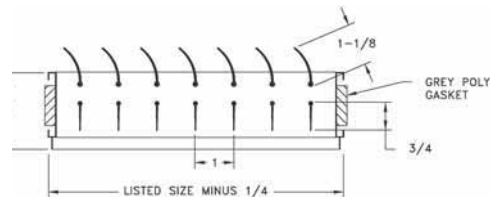
DT Air Diverter

- Extruded aluminum construction
- Two sets of individually adjustable blades
- Equalizes flow and controls volume at collar take-offs to registers and grilles
- Equipped with gasket around outside of frame for positioning firmly in duct
- Mill finish

DT Available Sizes

Minimum: 6" x 4"

Maximum: 36" x 20"



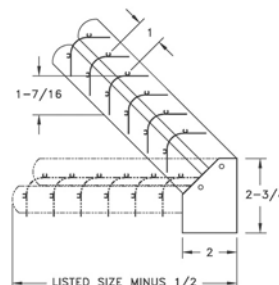
FT Flexiturn

- Extruded aluminum construction
- Designed to pick up air from the main trunk at branch take-offs and divert it toward the grille
- Mounts easily with sheet metal screws
- Gang-operated blades move from 45 degrees open to fully closed
- Positive setting
- Mill finish

FT Flexiturn Available Sizes

Minimum: 8" x 4"

Maximum: 36" x 18"



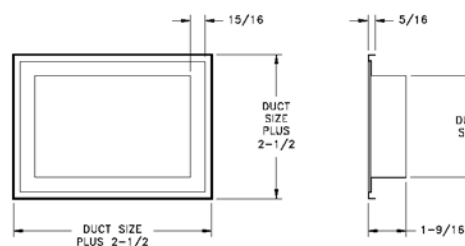
APF Aluminum Plaster Frame

- Aluminum construction
- Provides attractive appearance for registers and grilles around plaster
- Bright White finish

APF Available Sizes

Minimum: 6" x 4"

Maximum: 48" x 48"



6100 Access Door

- Steel construction
- Provides easy access to all types of heating, ventilation and air conditioning equipment
- Continuous door hinge located on long dimension
- Metal cam-lock fastening devices
- Bright White finish

6100 Available Sizes (in.)									
HT	6	8	10	12	14	16	18	20	
6	X								
8		X							
10			X						
12				X					
14					X				
16						X			
18							X		
20								X	

