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 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**

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot; with extended frame (overall 23¾&quot; x 23¾&quot;) for 24&quot; x 24&quot; openings</td>
</tr>
<tr>
<td>44&quot; x 20&quot;</td>
<td>44&quot; x 20&quot; with extended frame (overall 47¾&quot; x 23¾&quot;) for 48&quot; x 24&quot; opening</td>
</tr>
</tbody>
</table>

---

**659TI**

**Steel Lanced Filter Grille with Insulated Back**

- Steel construction
- Lanced-face design with 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

**659TI Available Size**

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot; with extended frame (overall 23¾&quot; x 23¾&quot;) for 24&quot; x 24&quot; openings</td>
</tr>
</tbody>
</table>

---

**673T**

**Steel Filter Grille**

- Steel construction
- Lanced-face design with ½" 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**

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>20&quot; x 20&quot;, overall 23¾&quot; x 23¾&quot;</td>
</tr>
</tbody>
</table>

---

See page 88 for fiberglass specifications.
## 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

### 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 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

### 673TPI R6 Available Size

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>23(\frac{3}{4})&quot; x 23(\frac{3}{4})&quot;</td>
</tr>
</tbody>
</table>

### 96AFBT Available Sizes

<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>23(\frac{3}{4})&quot; x 23(\frac{3}{4})&quot;</td>
</tr>
<tr>
<td>44&quot; x 20&quot;</td>
<td>47(\frac{3}{4})&quot; x 23(\frac{3}{4})&quot;</td>
</tr>
</tbody>
</table>
T-Bar Return-Air Filter Grilles

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

RCBFT
Aluminum
Curved-Blade Filter Grille
- Extruded aluminum construction
- Curved-blade 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
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

See page 88 for fiberglass specifications.

Engineering Data on Page 156
T-Bar Return-Air Filter Grilles

### REF5T/REF5TI
**Aluminum Egg Crate Filter Grille**
- 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

#### Available Sizes
<table>
<thead>
<tr>
<th>Size</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot; x 20&quot;</td>
<td>(overall 23¾&quot; x 23¾&quot;&quot;)</td>
</tr>
<tr>
<td>44&quot; x 20&quot;</td>
<td>(overall 47¾&quot; x 23¾&quot;)</td>
</tr>
</tbody>
</table>

### 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 23¾" x 23¾"

### 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 23¾" x 23¾"

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 23¾” x 23¾”) for 24” x 24” openings
- 46” x 22” (overall 47¾” x 23¾”) 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 23¾” x 23¾”) for 24” x 24” openings
- 46” x 22” (overall 47¾” x 23¾”) 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 23¾” x 23¾”) for 24” x 24” openings
- 46” x 22” (overall 47¾” x 23¾”) for 48” x 24” openings

**Engineering Data not available**

---

*Engineering Data on Page 156*
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

<table>
<thead>
<tr>
<th>RE5T Available Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>22&quot; x 22&quot; (overall 23¾&quot; x 23¼&quot;) for 24&quot; x 24&quot; openings</td>
</tr>
<tr>
<td>22&quot; x 46&quot; (overall 47¼&quot; x 23¼&quot;) for 48&quot; x 24&quot; openings</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>RE5TI Available Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>grid core face ½&quot; x ½&quot; x ½&quot;</td>
</tr>
</tbody>
</table>

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

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

See page 88 for fiberglass specifications.
**T-Bar Surfaire/Renovator Diffusers**

**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

<table>
<thead>
<tr>
<th>DPD/DPD R6 Available Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
</tr>
</tbody>
</table>

**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 biseide panel slots (Detail A).
3. Rotate the face plate counterclockwise, and pull plate away from back panel and hooks through the slot.

**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 23¾” x 23¾”

**RENP**

**Steel Perforated Return 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 23¾” x 23¾”

See page 88 for fiberglass specifications.

Engineering Data on Page 157-158
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
• HV514-14” collar factory-installed
• HV5Pc-Powder coat finish for added corrosion resistance

FPD/AFPD
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

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
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 23¾" x 23¾"

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 23¾" x 23¾"
T-Bar Perforated Supply/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

**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

---

**FBCS/FBR Available Size**

Overall Size 23¾" x 23¾"

*Engineering Data not available*

**SBP Available Size**

Overall Size 23¾" x 23¾"
### 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

### 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

**Engineering Data on Page 157-158**
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

PDR
Steel
Perforated Return Grille
• 51% net free area
• Available with 14", 16", or 18" fixed collars
• Formed steel black back panel

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"
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".

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

See page 88 for fiberglass specifications.
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

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
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

A504MS/A504OB
Four-way deflection

A501MS/A501OB
One-way deflection

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 23¾" x 23¾"

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 23¾" x 23¾"
**T-Bar Accessories**

**6400 Tab Collar**
- Galvanized steel construction
- For use with fiberglass-backed ceiling diffusers
- Tabbed for easy installation
- Accepts 3800 Series damper

**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

*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 1¼” long
  - PFTI 1¼” diameter head
  - RENP
  - RENPS/RENPS R6
  - RESTI
  - 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

---

**6400 Series Available Sizes**

<table>
<thead>
<tr>
<th>Size</th>
<th>6”</th>
<th>8”</th>
<th>10”</th>
<th>12”</th>
<th>14”</th>
</tr>
</thead>
</table>

**5400 Series Available Sizes**

<table>
<thead>
<tr>
<th>Size</th>
<th>6”</th>
<th>7”</th>
<th>8”</th>
<th>9”</th>
<th>10”</th>
<th>12”</th>
<th>14”</th>
<th>16”</th>
<th>18”</th>
</tr>
</thead>
</table>

**3800 Series Available Sizes**

<table>
<thead>
<tr>
<th>Size</th>
<th>6”</th>
<th>7”</th>
<th>8”</th>
<th>9”</th>
<th>10”</th>
<th>12”</th>
<th>14”</th>
</tr>
</thead>
</table>
T-Bar Accessories

**T19 Series Damper**
- Multi-blade damper
- Tabs for easy installation
- For use with 5400 Series collar
- Bright White finish

**Note:** 3/16 hex operator by others

**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

**RD Radial Damper**
- Galvanized steel construction
- Face-adjustable
- For use with round neck diffusers
- Mill finish

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

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

**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**

<table>
<thead>
<tr>
<th>Square Size</th>
<th>Round Neck</th>
</tr>
</thead>
<tbody>
<tr>
<td>6&quot; x 6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>9&quot; x 9&quot;</td>
<td>6&quot;, 8&quot;</td>
</tr>
<tr>
<td>12&quot; x 12&quot;</td>
<td>10&quot;, 12&quot;</td>
</tr>
<tr>
<td>15&quot; x 15&quot;</td>
<td>12&quot;, 14&quot;</td>
</tr>
<tr>
<td>18&quot; x 18&quot;</td>
<td>16&quot;, 18&quot;</td>
</tr>
<tr>
<td>20&quot; x 20&quot;</td>
<td>14&quot;, 16&quot;, 18&quot;</td>
</tr>
<tr>
<td>22&quot; x 22&quot;</td>
<td>14&quot;, 16&quot;, 18&quot;</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; x 12&quot;, 24&quot; x 12&quot;,</td>
</tr>
<tr>
<td>36&quot; x 12&quot;, 48&quot; x 12&quot;,</td>
</tr>
<tr>
<td>24&quot; x 24&quot;, 36&quot; x 36&quot;,</td>
</tr>
<tr>
<td>48&quot; x 48&quot;</td>
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</tbody>
</table>

AD Available Sizes

<table>
<thead>
<tr>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>Minimum: 6&quot; x 4&quot;</td>
</tr>
<tr>
<td>Maximum: 24&quot; x 24&quot;</td>
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</tbody>
</table>

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

Miscellaneous

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.
**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**

<table>
<thead>
<tr>
<th>HT (in.)</th>
<th>Width (in.)</th>
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<tbody>
<tr>
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<tr>
<td>8</td>
<td>X</td>
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<tr>
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<td>X</td>
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<td>18</td>
<td>X</td>
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<tr>
<td>20</td>
<td>X</td>
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</tbody>
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**6100 Dimensions**
- Duct size plus 1-3/4"