MODEL NUMBERING SYSTEM — Eggcrate Return Air Registers and Grilles

R - Register & Grille
A - Alum. Grille
W - Alum. Register w/Steel Damper
N - Alum. Register w/Alum. Damper

OPTIONS: (Must be present in order shown, left justified. Default is standard and applies if no entry is made)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
R A E A F 0 1 2 0 1 2 0 5 1

RETURN AIR PERFORMANCE DATA — Models RAEA & RAPA Eggcrate Return Air Registers and Grilles

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Multi-Panel Construction

### Multi-Panel Construction for the following Registers & Grilles

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<thead>
<tr>
<th>Single Deflection</th>
<th>Steel</th>
<th>Stainless Steel</th>
<th>Aluminum</th>
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<tbody>
<tr>
<td>RSSB, RTSB</td>
<td>RLSB, RMSB, RKSB</td>
<td>RASM, RNSM</td>
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<tr>
<td>RTDB, RTDB</td>
<td>RLDB, RMDB, RKDB</td>
<td>RADM, RNDM</td>
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<tr>
<td>RSAB, RTAB</td>
<td>RLAB, RMAB, RKAB</td>
<td>RARM, RNRM</td>
<td></td>
</tr>
</tbody>
</table>

### In-line Construction

- **W**: Over 72”
- **H**: Up to 36”
- **Height**: Up to 36”
- **Width**: Over 72”
- **Three or More Sections**
- **Any blade alignment**

### Ganged Construction

- **W**: 38” - 72”
- **H**: Up to 36”
- **Height**: 38-72”
- **Width**: Up to 36”
- **Three or More Sections**
- **Any blade alignment**

**Notes:**
1. Maximum single panel width and height is 36” listed size regardless of blade alignment.
2. Panels are made in even inch increments unless specified otherwise.
3. Front blade alignment is as pictured.
4. Grille height & width dimensions shown are listed size dimensions.
5. Panel flanges are sheared and aligned with joining strips.

**Notes:**
1. Maximum single panel width is 36” listed size.
2. Maximum single panel height is 36” listed size.
3. Panels will be made in even inch increments unless specified otherwise.
4. Front blade alignment is always parallel to center support.
5. Either the vertical or horizontal joint can be sheared down, but not both.
6. The center support can be aligned vertically or horizontally, depending on blade alignment desired. It is shown here mounted horizontally.
7. Grille height and width dimensions shown are listed size dimensions.
8. Metric dimensions are shown in millimeters.

**Joining Strips**

- **W**: 38” - 72”
- **H**: 38’-74”
- **Center Support Attachment to Wall Opening**

- **Center Support** installs flush with wall
- **Duct Height**
- **Duct Width**
- **W**: 38” - 72”
- **H**: 38’-74”

**Cross-Sectional View of Center Support with Grilles Attached**

- **W**: 2-1/2” (64)
- **H**: 1/2” (13)
- **1-1/4” (32)
- **2” (51)**
Multi-Panel Construction for the following Registers & Grilles

<table>
<thead>
<tr>
<th>Steel</th>
<th>Louvered Return</th>
<th>Perforated Return</th>
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<tbody>
<tr>
<td></td>
<td>RSLA, RTLA</td>
<td>RSFA, RTFA</td>
</tr>
</tbody>
</table>

### Multi-Panel Construction

**Notes:**
1. Panels will be made in even inch increments unless specified otherwise.
2. Dimensions shown are listed size dimensions.
3. Max. blade length on louvered face models is nominal 48".
4. Panels are sheared and aligned with joining strips.

#### In-Line Construction

- **Height:** Up to 36"
- **Width:** Over 96"
- **Horizontal Blade Alignment**
- **Two Sections**
- **Height:** Up to 48"
- **Width:** Over 72"
- **Vertical Blade Alignment**
- **Three or More Sections**

#### Ganged Construction

**Notes:**
1. Either the vertical or horizontal joint can be sheared down, but not both.
2. Maximum single panel width is 48" listed size.
3. Maximum blade length on louvered face models is listed size 48".
4. Maximum single panel height is 36" listed size.
5. Panels are made in even inch increments unless specified otherwise.
6. Blade alignment is always parallel to center support.
7. The center support can be aligned vertically or horizontally, depending on the blade alignment desired. It is shown here mounted horizontally.
8. Grille dimensions shown are listed size dimensions.

#### Center Support Attachment to Wall Opening

- Duct Height
- Duct Width
- W: 50 - 96"
- H: 38 - 74"

#### Cross-Sectional View of Center Support with Grilles Attached

- 2-3/8" (60)
- W: 50 - 96"
- 1/2" (13)
- 1-1/4" (32)
- 2" (51)
**Multi-Panel In-Line Construction**

**Notes:**
1. Maximum single panel width and height is 48" nominal size, regardless of blade alignment.
2. Panels are made in even inch increments unless specified otherwise.
3. Front blade alignment is as pictured.
4. Grille dimensions shown are nominal dimensions.
5. Panel flanges are sheared and aligned with joining strips.

**Multi-Panel Ganged Construction**

**Notes:**
1. Maximum single panel width and height is 48" nominal size, regardless of blade alignment.
2. Panels are made in even inch increments unless specified otherwise.
3. Front blade alignment is always parallel to center support.
4. Either the vertical or horizontal joint can be sheared down, but not both.
5. The center support can be aligned vertically or horizontally, depending on blade alignment desired.
6. Grille dimensions shown are nominal dimensions.

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**Cross-Sectional View of Center Support**

- Height: 50-96"
- Width: Up to 48"
- Two Sections
- Any Blade Alignment

- Height: Over 96"
- Width: Up to 48"
- Three or more Sections
- Any Blade Alignment

---

**Joining Strips**

- Width: 50" - 96"
- (Two Sections)
- Any Blade Alignment

- Height: Up to 48"
- Width: 50" - 96"
- (Two Sections)
- Any Blade Alignment

---

**Center Support**

- Installs flush with wall
- Wall Angle
- Wall

---

**Center Support Mounted flush with wall (Shown aligned horizontally).**

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**Duct Width**

- (Up to 48")

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**Duct Height**

- (50" - 96")

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**Wall Angle**

- (13)

---

**Wall**

- 2"

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**Joining Strips**

- 1/4"
All Sections of Butted Grilles or Registers will be made in Listed Sizes as Standard.

STANDARD REGISTERS AND GRILLES
Applies to all models except louvered return air registers and grilles and door partition grilles. Registers and grilles over 36” x 36” butting two or more grilles together.

NOTES:
Extruded aluminum supporting members with mounting angles, are furnished where required.
Center support may run vertically or horizontally, depending upon combination of grilles used.
Combination of panels will be furnished to fit duct opening with satisfactory clearance.
### Screw Hole Location for the following Registers & Grilles

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<th>Aluminum</th>
<th>Stainless Steel</th>
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<td>RAFM, RNFM</td>
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</table>

**Notes:**
- Screw holes on the face are standard on Registers and Grilles.
- Steel R&G can be ordered without screw holes, for use with concealed hangers (Opt. N).
- The screw holes is 5/32" in diameter.
- Each Register or Grille is provided with the appropriate number of screws as standard.
- The standard screw is #8 x 1-1/4" pan head screw, with a flat blade head.
- Tamper-proof screws are available as an option (Opt. B).

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**Nominal Size Plus 2"**

- One Screw hole per Side
  - Nominal Size Range 4" through 18".

**Two Screw holes per Side**

- Nominal Size Range 19" through 31".

**Three Screw holes per Side**

- Nominal Size Range 32" through 48".

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