



**MANUAL – INSTALLATION**

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## **80 Series**

Egg Crate Return Grille

v001 – Issue Date: 13/02/24

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**PRICE**<sup>®</sup>

# 80 SERIES GRILLE

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# 80 SERIES GRILLE

## FREQUENTLY ASKED QUESTIONS

### How do I identify what product I received and the options it came with?

The 80 Series grilles will have a sticker located on the outside of the frame.

This line string can be further identified in section “Getting Started - Interpreting the Line String” on page 3.



### I need to order a specific part that is missing from my grille. How do I order them?

See “Product Overview” and “Getting Started - Interpreting the Line String” on page 2 and 3 to identify your grille.

Review the installation section for your product to identify the part missing and see the “Parts List” on page 24 for part number.

Contact your local supplier or the sales representative to order the part and reference the part number.

### My grille did not come with all the parts I need to install. How should I proceed?

Check original packaging where grille was shipped. Additional parts may be in a separate bag from the grille.

If parts are unable to be found, contact your local sales representative for further assistance.

### How do I install these concealed mounting brackets in my grille?

See “Concealed ‘C’ Mounting” on page 7.

### My question about the 80 Series grilles is not answered in this manual. How should I proceed?

Please contact the GRD Applications team through email at [grd@priceindustries.com](mailto:grd@priceindustries.com)

# 80 SERIES GRILLE

## PRODUCT OVERVIEW

### Product Overview

The 80 Series Egg Crate Return Grille is available in various mounting styles and features sturdy construction, consisting of a heavy gauge aluminum grid core, optional extruded aluminum borders and frames, and a durable powder coat finish. Several aluminum grid core options are available with varying grid spacing and depth to accommodate architectural and performance needs. To help identify the construction of the product, please refer to the table below.

Material	Core Spacing	Blade Deflection
Aluminum (80/81/82/85)	1/2 in. x 1/2 in. x 1/2 in. grid (80)	0° (x80/81/82)
Steel Plenum (80SR)	1/2 in. x 1/2 in. x 1 in. grid (81)	45° (85)
Stainless Steel (80SS)	1 in. x 1 in. x 1 in. grid (82)	
	Sight Resistant grid (85)	

The 80 Series grilles will have one sticker located on the outside of the frame. For ease of troubleshooting assistance, replacement parts, and general factory assistance, it is recommended that the order number and model line string be available for reference. This information can be found on the factory label.



### Before You Start

Inspect all cartons and boxes for flaws and shipping damage.

Remove grille(s) from shipping carton and inspect for any damage.

If anything is discovered to be damaged, contact the shipping company and file a freight claim.

# 80 SERIES GRILLE

## PRODUCT OVERVIEW

### Getting Started - Interpreting the Line String

**Step 1:** Refer to the factory label of the product and use the guide below to determine the installation type for the product. Start by identifying the model of the grille and use one of the three example line strings below to assist with determining the installation method.




0 75992500210001 8001

<b>ORDER</b>	<b>LINE</b>	<b>UNIT</b>	<b>PART</b>	<b>SECTION</b>	
<b>744629</b>	<b>1</b>	<b>1</b>	<b>A</b>	<b>1/1</b>	<b>TAG: (EXAMPLE)</b>

80//1/22.000/22.000//LI/F/////24/24//0//TLRD//VCS3AL/B12

1
2
3
4
5
6
7
8
9
10
11
12
13
14
APPLIES TO ALL 80/81/82 LINESTRINGS

---

85//1/12.000/12.000//SW/F//L////////A////MRI//B12

1
2
3
4
5
6
15
7
8
9
11
13
14
APPLIES TO ALL 85 LINESTRINGS

---

80FF//1/12.000/12.000//TB//8/8/1//HL//B12

1
2
3
4
6
16
17
18
19
14
APPLIES TO ALL 80FF/80FH LINESTRINGS

- |  |  |   |   |
|--|--|---|---|
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">1</span> Model            | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">6</span> Border                           | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">11</span> Fastening                  | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">16</span> Inlet Size A         |
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">2</span> Order Type       | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">7</span> Panel Size (If Applicable)       | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">12</span> Accessory (If Applicable)  | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">17</span> Inlet Size B         |
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">3</span> Duct Dimension A | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">8</span> Ceiling Module A (If Applicable) | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">13</span> Damper/MRI (If Applicable) | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">18</span> Filter Frame Size    |
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">4</span> Duct Dimension B | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">9</span> Ceiling Module B (If Applicable) | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">14</span> Finish                     | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">19</span> Fastener Orientation |
| <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">5</span> Application      | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">10</span> Mounting Frame (If Applicable)  | <span style="border: 1px solid black; border-radius: 50%; padding: 2px 5px;">15</span> Blade Pattern              |   |

**Step 3:** Determine if the product is oversized and requires a specialized installation. Refer to Factory Label and check if Duct Dimension A and Duct Dimension B are as follows:

Fastening Type	Line String Sample
Single Duct Channel Oversize	/#.000/#.000/, where one # > 96" and the other # ≤ 48" OR where both are 48" < # ≤ 96"
Multi Duct Channel Oversize	/#.000/#.000/, where one # > 96" and the other # > 48"

**Step 4:** Using the table below, find the page number for the installation method the corresponds to the product's Border, Fastening and whether the product is oversized.

# 80 SERIES GRILLE

## PRODUCT OVERVIEW

Application	Border Type	Fastening Type	Line String Sample	Page #
Lay-In – No Screw Holes	/F/, /N/, /NF/, /C/, /TB/, /17/, /CH/, /CORE/, /QR/, /3P/, /3PA/, /17P/, /17PA/, /916P/, /916PA/	/O/	80//I/24.000/24.000//LI//CH/////////24/24//O/////////B12 80FF//I/12.000/12.000//TB//8/8/1//HL//B12	5
Lay-In – 80SR	N/A	N/A	80FF//I/12.000/12.000//TB//8/8/1//HL//B12	5
Surface Mount with Standard Border – Countersunk	/F/, /C/, /N/	/A/	80//I/20.000/20.000//SW/F//////////A/////////B12	6
Surface Mount with Standard Border – Concealed	/F/, /C/, /N/	/C/	80//I/20.000/20.000//SW/F//////////C/////////B12	7
Surface Mount with Mounting Frame – Countersunk	/F/ and /D/	/A/	80//I/20.000/20.000//SW/F//////////D/A/////////B12	11
Surface Mount with Mounting Frame – Concealed	/F/ and /D/	/C/	80//I/20.000/20.000//SW/F//////////D/C/////////B12	12
Surface Mount – 80FF	/SM/	/QR/, /HS/, /HL/	80FF//I/12.000/12.000//SM//O/O/1//HL//B12	13
Surface Mount – 80FH	/SM/	N/A	80//I/54.000/54.000//SW/F//////////A/////////B12	14
Exposed Duct Application with Mounting Frame – Countersunk	/ED/	/H/	80//I/12.000/12.000//SW/ED//////////H/////////VCS3/B12	16
Exposed Duct Application with Mounting Frame – Concealed	/ED/	/C/	80//I/12.000/12.000//SW/ED//////////C/////////VCS3/B12	17
Oversize Mounting – One Dimension Oversize	/F/, /C/, /N/	/A/	80//I/104.000/48.000//SW/F//////////A/////////B12	18
Oversize Mounting – Two Dimension Oversize	/F/, /C/, /N/	/A/	80//I/120.000/76.000//SW/F//////////A/////////B12	20
Accessory Installation – Opposed Blade Damper	All except CF, C and filter frames	All	80//I/24.000/24.000//SW/F//////////A/////////VCS3/B12	22

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Lay-In Application

#### No Screw Holes '0' Fastening

This sub section applies to the 80SR or when a grille is ordered with a lay-in border or lay-in panel.

#### Application: Ceiling

**Applicable Models: 80, 81, 82, 85, 80SR, and 80FF**

**Applicable Frames: F, N, NF, CH, CORE, 17, TB, QR, 3P, 3PA, 916P, 916PA, 17P, and 17PA**

#### Applicable Fastening: 0

Sample line string:

80//1/22.000/22.000//LI/F/////24/24//0/////B12

85//1/8.000/8.000//LI/3P//L//12x12/////0/////B12

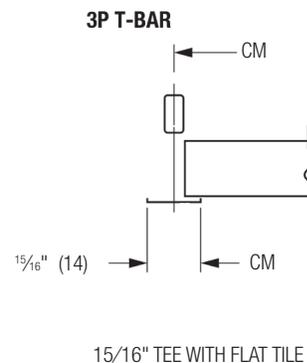
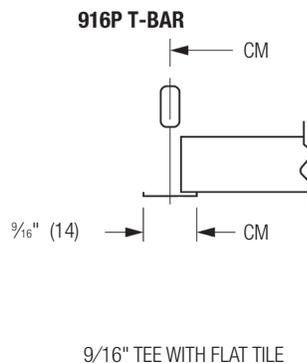
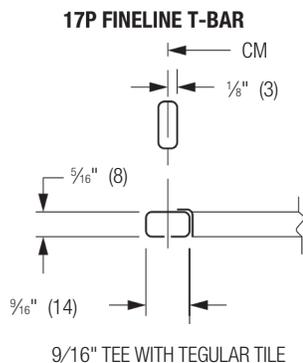
82//1/48.000/24.000//LI/CORE/////48.000/24.000//0/////B12

80//1/24.000/8.000//LI/QR/////24/8//0/////B12

80FF//1/12.000/12.000//TB//8/8/1/HL//B12

80SR//1/24/24//2//TOP/12/BN//AFI//B12

**Step 1:** Review submittal to confirm frame style is compatible with the ceiling grid type. For sizing for certain ceiling module, please refer to the product submittal.



**Step 2:** Once frame is confirmed to be compatible with the ceiling, lay the grille into the grid system of the T-bar ceiling.

**NOTE:** For T-bar applications and grilles (not including 80SR) ordered without filter frames, "0 - No Screw Hole" mounting is used as these diffusers are simply laid in into the T-bar grid.

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Surface Mount Application with Standard Border

#### Countersunk 'A' Fastening

This sub section applies to grilles for installation of surface mount drywall applications with "A – Countersunk Holes" mounting and standard borders (does not include D mounting frame).

**Application: Ceiling and Sidewall**

**Applicable Models: 80, 81, 82, and 85**

**Applicable Frames: F, N, and C**

**Applicable Fastening: A**

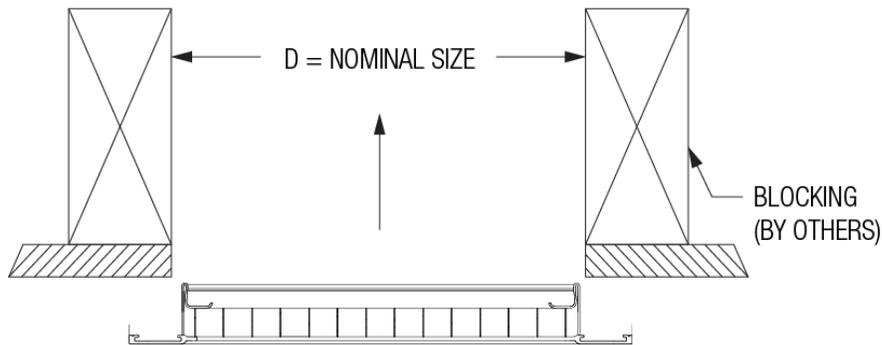
Sample line string:

81//1/24.000/24.000//SW/F////////A////////B12

85//1/24.000/18.000//SW/C//S////////A////////B12

80SS-1-1//1/10.000/6.000//SM/F/0/0/A//304/#4

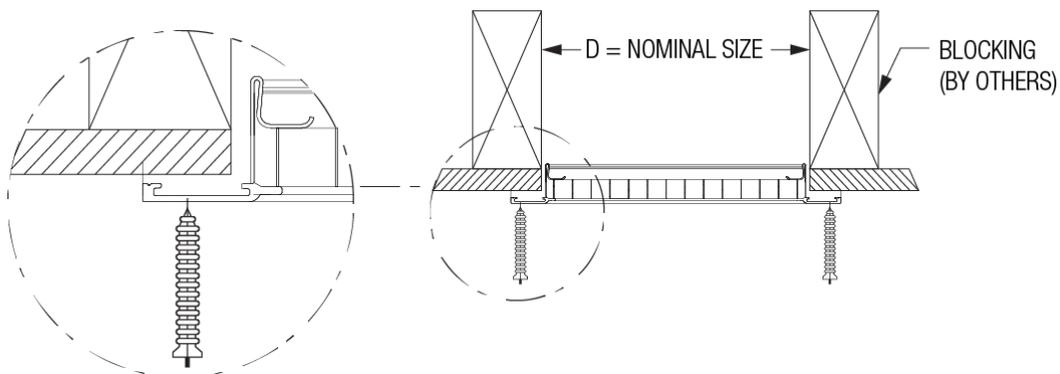
**Step 1:** Frame out or cut an opening where the grille will be placed. The size of the opening to follow duct dimension listed on Factory Label. Once opening has been cut/framed out, place the grille in the opening.



**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.

**Step 2:** Using the #8 screws provided by Price, fasten the grille into place.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Concealed "C" Fastening

This sub section applies to grilles for installation of surface mount drywall applications with "C – Concealed" mounting and standard borders (does not include D mounting frame).

**Application: Ceiling and Sidewall**

**Applicable Models: 80, 81 and 82**

**Applicable Frames: F, N, and C**

**Applicable Fastening: C**

Sample line string:

80//I/24.000/24.000//SW/C//////////C/////////B12

82//I/24.000/12.000//SW/N//////////C/////////B12

### Concealed Mounting Components

Item Number	Description	Image
1	Outer Bracket	
2A	Side Bracket Angle	
2B	Inner Bracket	
3	Mounting Screw	
4	Rubber Washer	
5	Black Threaded Clip	
6	Sheet Metal Screw	



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

**Step 1:** Frame out and cut an opening where the grille will be placed. The size of the opening to follow duct dimension listed on Factory Label.

**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.

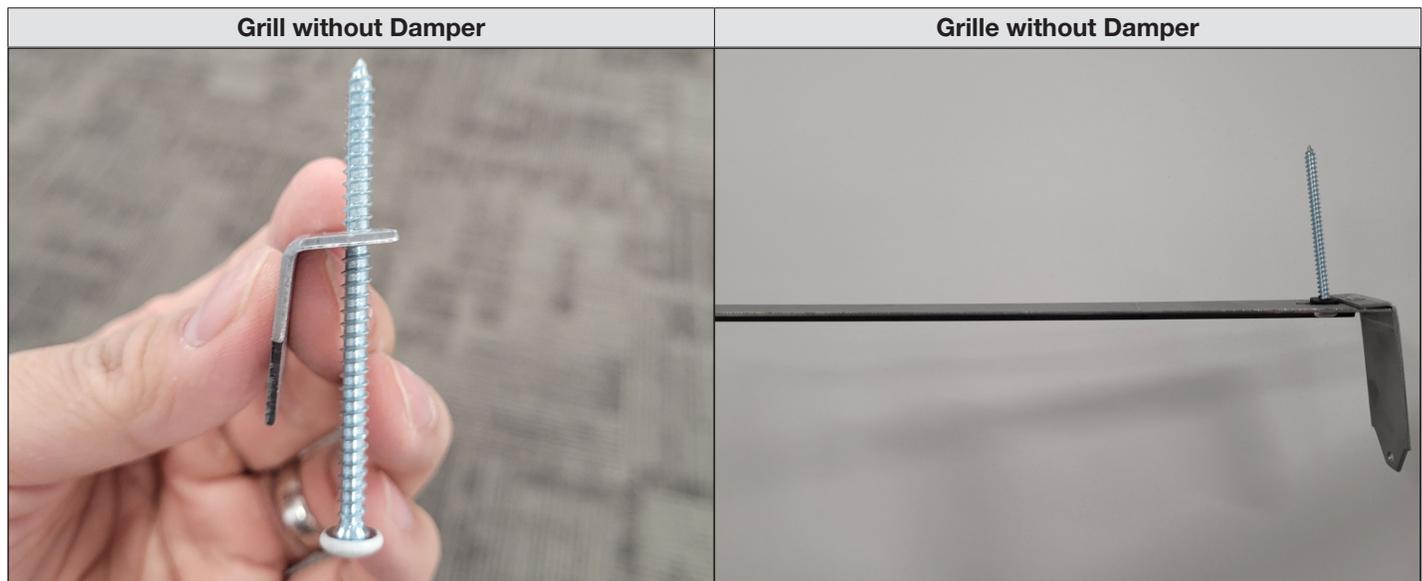
**Step 2:** Open the bag with hardware; ensure that there is the appropriate number of parts as listed in the table below. Depending on the size of the grille and if the grille was ordered with a damper, the parts and quantities of each part will differ.

Grille Type	Part Name	Item Number	Quantity	
			Size ≤ 12"	Size > 12"
Grille without Damper	CMB Outer Bracket	<b>1</b>	1	2
	CMB Side Angle Bracket	<b>2A</b>	2	4
	Mounting Screw	<b>3</b>	2	4
	Washer	<b>4</b>	2	4
	Threaded Clips	<b>5</b>	2	4
	Sheet Metal Screws	<b>6</b>	2	4
Grille with Damper	CMB Outer Bracket	<b>1</b>	1	2
	CMB Inner Bracket	<b>2B</b>	1	2
	Mounting Screw	<b>3</b>	2	4
	Washer	<b>4</b>	2	4
	Threaded Clips	<b>5</b>	2	4
	Sheet Metal Screws	<b>6</b>	2	4

**NOTE:** If an opposed blade damper was ordered, ensure that the damper is mounted to the neck of the diffuser before proceeding. Refer to section titled “Opposed Blade Damper Installation” for more information.

**Step 3:** Install mounting screws through the slotted holes of the mounting brackets by inserting the head of the screw through the larger portion of the slot of the inner mounting bracket. Slide the screw into the narrow end of the slot and retain the mounting screw in place using the provided rubber washers by sliding the washers all the way down to the base of the screw.

**NOTE:** For a grille ordered without a damper, side angle mounting bracket will be included. For a grille ordered with a damper, a long inner bracket will be included. Installation will be relatively similar between both brackets.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

**Step 4:** Slide the black threaded clips over the slot(s) of the outer bracket.



**Step 5:** Concealed mounting brackets spacing is not critical but should be adequately spaced apart. Mark the grille as needed for reference of the bracket location. The table below shows approximately how far apart the mounting brackets should be placed along the grille.

**Bracket should be parallel to either the damper blades or the short dimension of the grille.**

<p><b>Grilles 12" or less</b> – Grille will come with one set of brackets. Mark the center of the grille on both sides.</p>	
<p><b>Grilles over 12"</b> – Grille will come with two sets of brackets. Mark 2" approximately from the outside edges of the grille. If marking at a different dimension, try to place the markings between the damper blades for ease of installation.</p>	

**Step 6:** Align the side angle bracket or the inner mounting bracket to markings made in the earlier step. Fasten using self-tapping sheet metal screws while leaving about 1/2" room above the edge of the grille or damper.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

**Step 7:** Place the outer brackets over the inner/side angle bracket while lining up the mounting screws with the black threaded clips on the outer brackets. With a screwdriver, turn each screw clockwise, alternating mounting screws to ensure that the outer bracket remains as parallel to the frame as possible. Keep turning the mounting screws until the outer bracket is approximately halfway down the length of the screw.

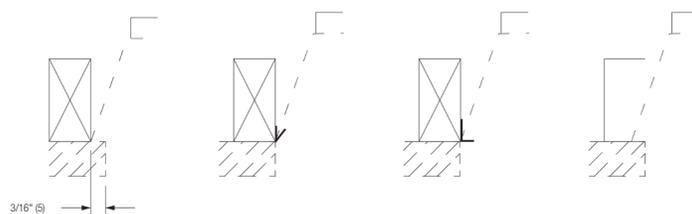
**NOTE:** If the grille has a mounted damper, fully open the damper blade.



**Step 7:** Place the grille with the concealed mounting brackets into the hemmed duct or wall opening.

**NOTE:** Ensure that the outer bracket latches onto the hem of the duct before tightening the concealed mounting screws.

**NOTE:** If the ducting/plenum is not hemmed, a ledge may be added for installing the bracket. This may be formed by the drywall, a sheet metal hem or angle or a metal stud framing.



**Step 7:** Tighten concealed mounting screws until the grille frame comes into contact with the surface. If using a mounting frame, ensure that the outer bracket latches onto the ends of the mounting frame before tightening the concealed mounting screws.

Concealed Mounting with Hem or Ledge	Concealed Mounting with 'D' Mounting Frame	Concealed Mounting with 'ED' Mounting Frame
	<p>OUTER BRACKET IN CONTACT WITH THE ENDS OF DUCT MOUNTING FRAME</p> <p>TIGHTEN THE MOUNTING SCREW UNTIL BACK SIDE OF BORDER IS FLUSHED AGAINST THE MOUNTING FRAME</p>	<p>OUTER BRACKET IN CONTACT WITH THE ENDS OF DUCT MOUNTING FRAME</p> <p>TIGHTEN THE MOUNTING SCREW UNTIL BACK SIDE OF BORDER IS FLUSHED AGAINST THE MOUNTING FRAME</p>

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Surface Mount Application with Mounting Frame

#### Countersunk "A" Fastening with "D" Mounting Frame

This sub section applies to grilles for installation of surface mount drywall applications with "A – Countersunk Holes" mounting and "D" Mounting Frame.

**Application: Ceiling and Sidewall**

**Applicable Products: 80, 81 and 82**

**Applicable Frames: F and N**

**Applicable Fastening: A with 'D' Mounting Frame**

Sample line string:

80//12.000/12.000//SW/F/////////D/A/////////B12

**Step 1:** Frame out or cut an opening where the grille will be placed. The size of the opening for a "D" Mounting Frame ONLY to follow **Duct Dimension Size on Factory Label + 1/4"**.

Example: For the line string 80//12.000/12.000//SW/F/////////D/A/////////B12, the size of the hole opening would be 12 1/4" x 12 1/4".

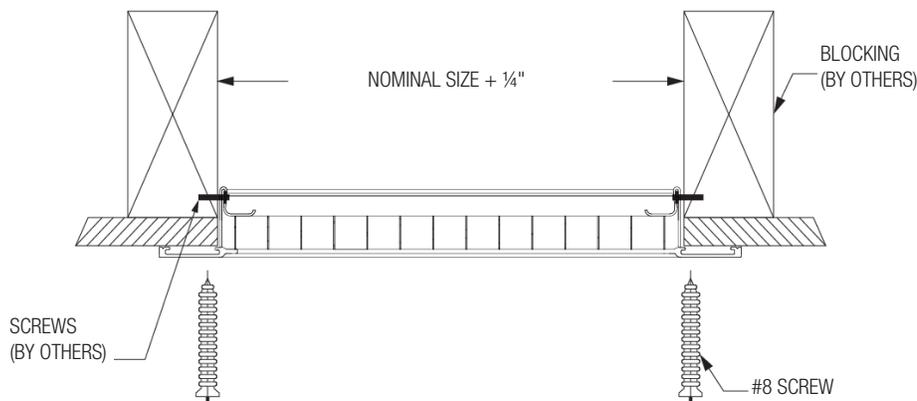
**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.

**Step 2:** Place the mounting frame in the opening and using the screws (provided by others), fasten the inside of the mounting frame into blocking.



**Step 3:** Place the grille in the opening and using the #8 screws provided by Price, screw the grille into place using the countersunk screws.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### **Concealed "C" Fastening**

This sub section applies to grilles for installation of surface mount drywall applications with "C – Concealed" mounting and "D" Mounting Frame.

### **Application: Ceiling and Sidewall**

### **Applicable Models: 80, 81 and 82**

### **Applicable Frames: F**

### **Applicable Fastening: C with 'D' Mounting Frame**

Sample line string:

80//1/12.000/12.000//SW/F/////////D/C/////////B12

**Step 1:** Frame out or cut an opening where the grille will be placed. The size of the opening for a "D" Mounting Frame ONLY to follow **Duct Dimension Size on Factory Label + 1/4"**.

Example: For the line string 80//1/12.000/12.000//SW/F/////////D/A/////////B12, the size of the hole opening would be 12 1/4" x 12 1/4".

**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.

Once the application of the grille is determined and the opening has been cut/framed out with the recommended blocking as per the **Preparation** step, screw the mounting frame into the blocking to secure it into place.

**Step 2:** Place the mounting frame in the opening and using the screws (provided by others), fasten the inside of the mounting frame into blocking.



**Step 3:** Refer to Page 7 for concealed mounting component breakdown and how to install concealed mounting bracket onto the grille and into the mounting frame.

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Surface Mount Application with Filter Frame

#### 80FF Installation

This sub-section applies to installation of the 80FF for surface mount applications.

#### Application: Ceiling and Sidewall

#### Applicable Models: 80FF

#### Applicable Frames: SM

#### Applicable Fastening: HS, HL, and QR

Sample line string:

80FF//1/24.000/24.000/SM//0/0/1/HS//B12

80FF//1/24.000/24.000/SM//0/0/1/HL//B12

80FF//1/24.000/24.000/SM//0/0/1/QR//B12

**Step 1:** Frame out or cut an opening where the grille will be placed. The size of the opening to follow duct dimension listed on Factory Label. Once opening has been cut/framed out, determine if the ceiling needs notching. Refer to Factory Label.

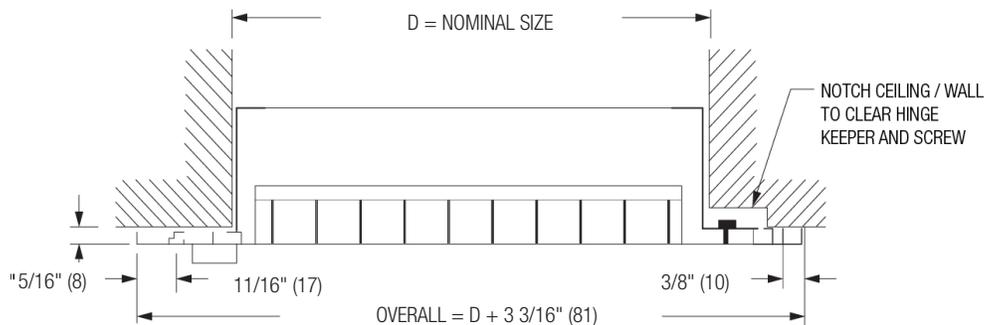
**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.



- If the line string shows either /HL/ or /HS/ like the example above, then ceiling needs to be notched. Refer to **Step 1A to 3 below**.
- If the line string shows /QR/ then ceiling does not need to be notched. Follow **Steps 2 to 3**.

**Step 1A:** For hinged 80FF, the drywall thickness interferes with the hinge. Notch into the drywall. The notch should be large enough so that the hinge keeper and screw can clear the surface without interference.

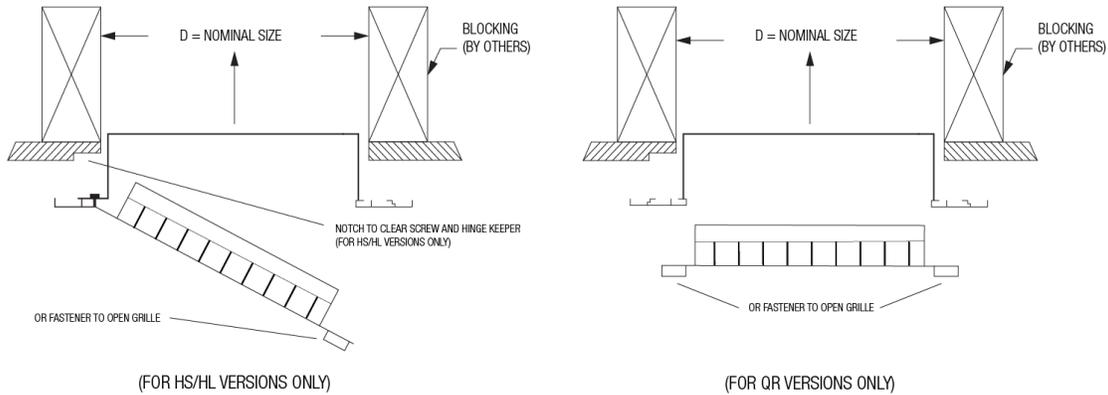


**NOTE:** For sidewall installation, hinge tabs must be at the top edge of the grill to prevent the grille door from opening abruptly.

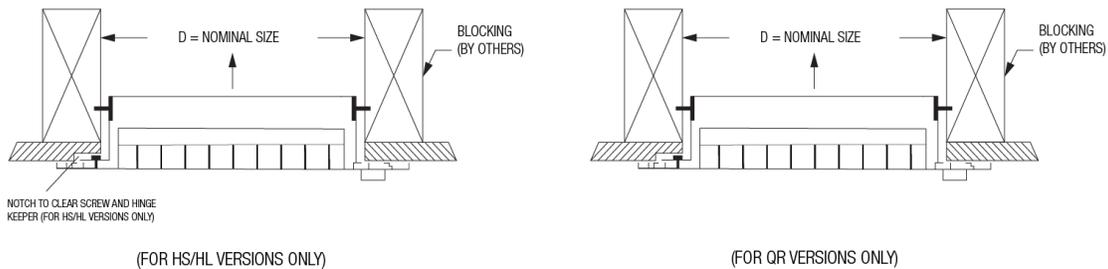
# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

**Step 2:** Open the filter frame by turning the quarter turn fasteners and place open grille into the opening. For /QR/ versions, the entire core can be removed via quarter turn fasteners.



**Step 3:** Place the grille in the opening and using the screws (provided by others), fasten the grille from the inside of the filter frame into blocking.



### 80FH Installation

This sub-section applies to installation of the 80FH for surface mount applications.

#### Application: Ceiling and Sidewall

#### Applicable Models: 80FH

#### Applicable Frames: SM

Sample line string:

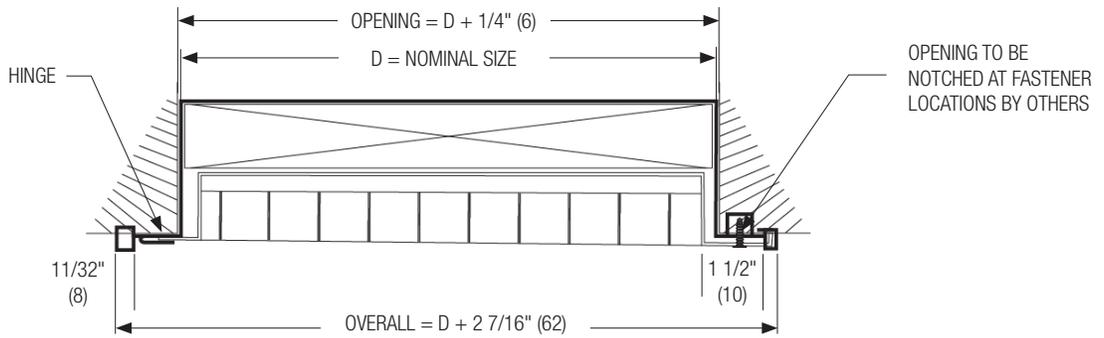
**80FH//1/24.000/24.000/SM////1//1//B12**

**Step 1:** Frame out and cut a hole opening where the grille will be placed. The size of the opening to follow **Duct Dimension Size on Factory Label** + 1/4" or  $D + 1/4"$ .

**Step 2:** For the 80FH, the drywall thickness interferes with the quick release fasteners. Notching into the drywall is required. The notch should be large enough so that the quick release fastener can clear the surface without interference.

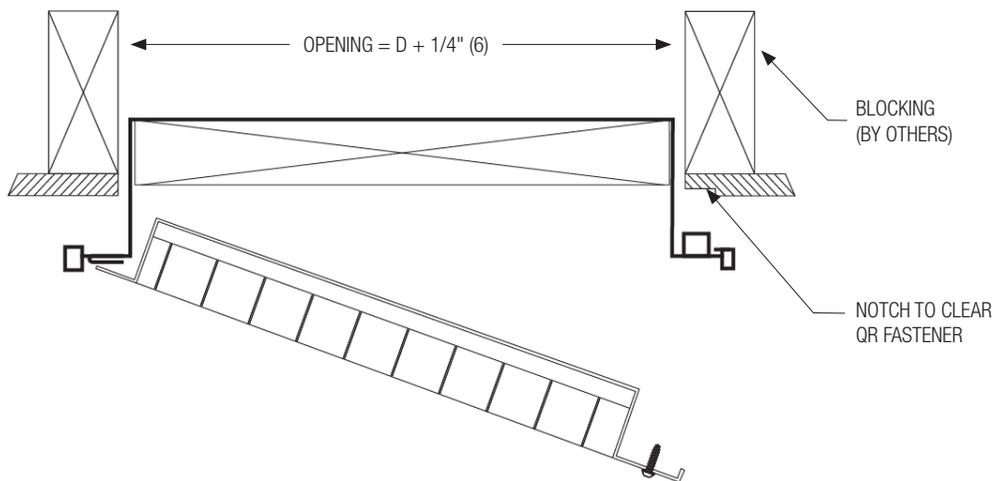
# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

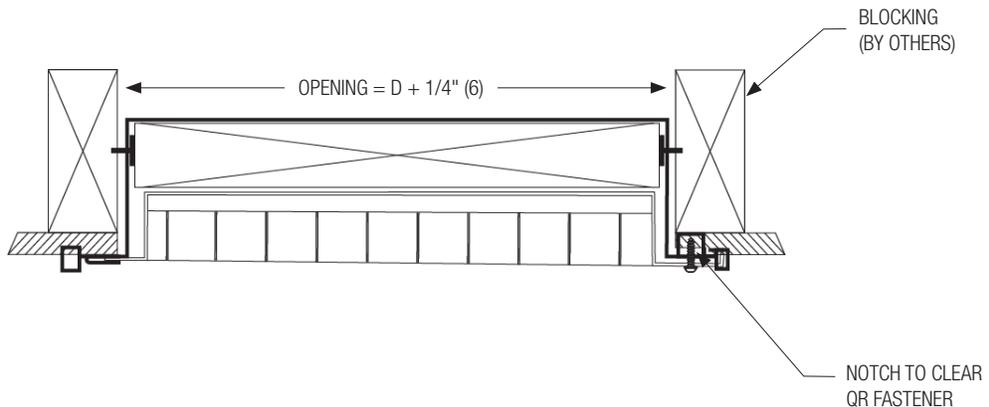


**NOTE:** For sidewall installation, hinge tabs must be at the top edge of the grille to prevent the grille door from opening abruptly.

**Step 3:** Open the filter frame by turning the quick release fasteners and place the open grille into the hole.



**Step 4:** Place the grille in the opening and using the screws (provided by others), fasten the grille from the inside of the filter frame into blocking.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Exposed Duct Application with Mounting Frame

#### Straight Hole 'H' Fastening

This sub section applies to installation of a grille with "H – Straight Hole" mounting and "ED" Mounting Frame to the end of a duct.

#### **Application: Exposed Duct**

#### **Applicable Models: 80, 81, and 82**

#### **Applicable Frames: ED**

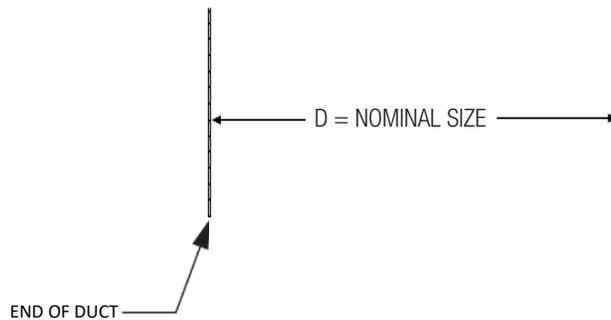
#### **Applicable Fastening: H**

Sample line string:

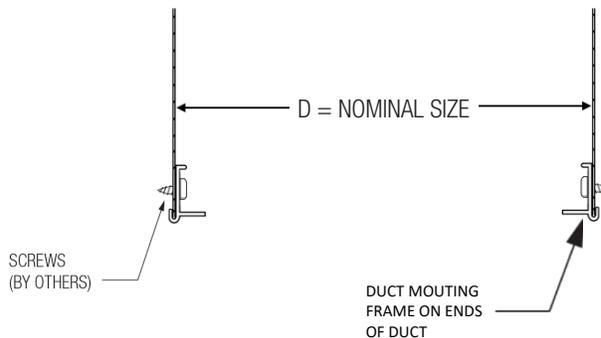
80//1/12.000/12.000//SW/ED//////////H////////VCS3/B12

82//1/24.000/8.000//SW/ED//////////H/////////B17

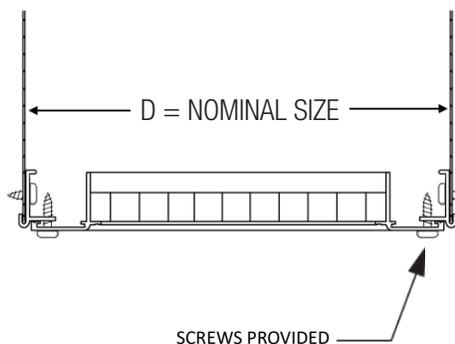
**Step 1:** Locate the end of the duct run where the grille is to be placed and ensure the opening is free of any obstructions or debris.



**Step 2:** Place the mounting frame onto the end of the duct and fasten the frame to the walls of the duct via screws (provided by others).



**Step 3:** Place the grille into the end of the duct run and using the screws provided, fasten the grille border to the flange of the mounting frame.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Exposed Duct Application with Mounting Frame

#### Concealed 'C' Fastening

This sub section applies to installation of a grille with "C – Concealed" mounting and "ED" Mounting Frame to the end of a duct.

#### Application: Exposed Duct

#### Applicable Models: 80, 81, and 82

#### Applicable Frames: ED

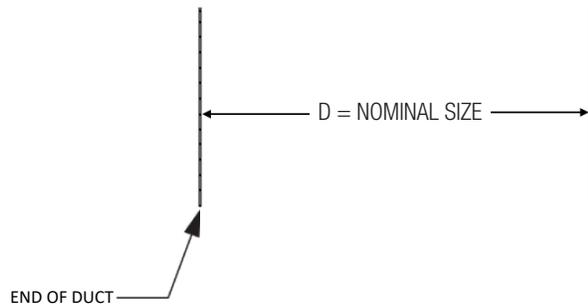
#### Applicable Fastening: C

Sample line string:

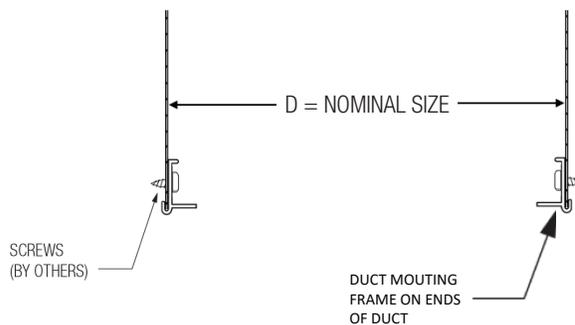
80//12.000/12.000//SW/ED/////////C////////VCS3/B12

82//12.000/8.000//SW/ED/////////C/////////B17

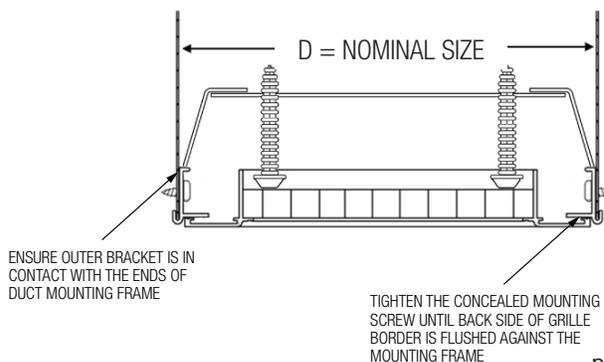
**Step 1:** Locate the end of the duct run where the grille is to be placed and ensure the opening is free of any obstructions or debris.



**Step 2:** Place the mounting frame onto the end of the duct and fasten the frame to the walls of the duct via screws (provided by others)



**Step 3:** Refer to Page 7 for concealed mounting component breakdown and how to install concealed mounting bracket onto the grille and into the mounting frame.



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Oversized Grilles

The maximum single section size for any 80 series grilles is 96" x 48". For a singular dimension (either length OR width) that is oversized, please refer to the section "Mounting for One Dimension Oversize". For a grille that is oversized in both length and width, please refer to the section "Mounting for Two Dimension Oversize". For example:

Mounting for One Dimension Oversize: 80//104.000/46.000//SW/F////////A////////B12

Mounting for Two Dimension Oversize: 80//124.000/84.000//SW/F////////A////////B12

### Mounting for One Dimension Oversize

This sub section applies to grilles that are ordered with a length above 96" or width above 48" (not both) and will be installed for surface mount drywall applications with "A – Countersunk Holes" mounting.

#### Application: Ceiling and Sidewall

#### Applicable Models: 80, 81 and 82

#### Applicable Frames: F and N

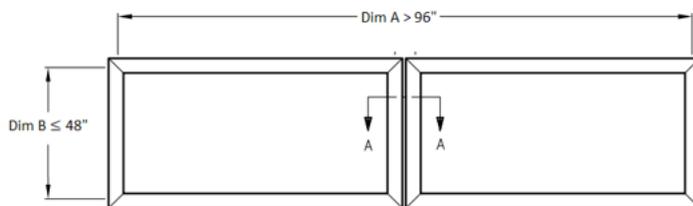
#### Applicable Fastening: A

Sample line string:

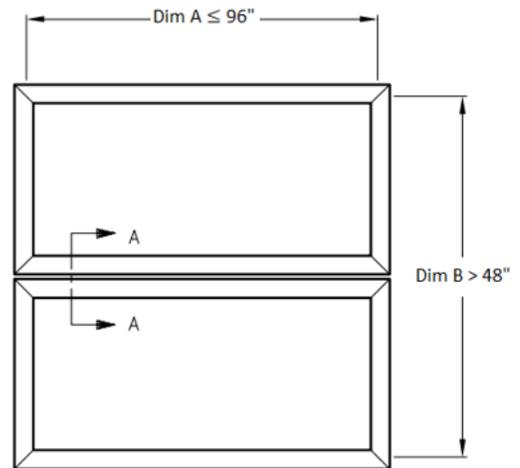
80//104.000/46.000//SW/F////////A////////B12

81//84.000/64.000//SW/N////////A////////B12

**Step 1:** : Frame out or cut a hole opening where the grille will be placed. The size of the opening to follow nominal size listed on Factory Label. If Dimension A is over 96" but Dimension B is equal to or below 48" then proceed to **Step 1A**. If Dimension B is over 48" but Dimension A is equal to or below 96" then proceed to **Step 1B**.



LENGTH OVER 96" (2438)  
 WIDTH EQUAL TO BELOW 48" (1219)  
 SIZES UP TO 192" x 48" (4876 x 1219)  
 TWO SECTIONS WITH DUCT CHANNEL  
**PROCEED TO STEP 1A**



WIDTH OVER 48" (1219)  
 LENGTH EQUAL TO BELOW 96" (2438)  
 SIZES UP TO 96" x 96" (2438 x 2438)  
 TWO SECTIONS WITH DUCT CHANNEL  
**PROCEED TO STEP 2A**

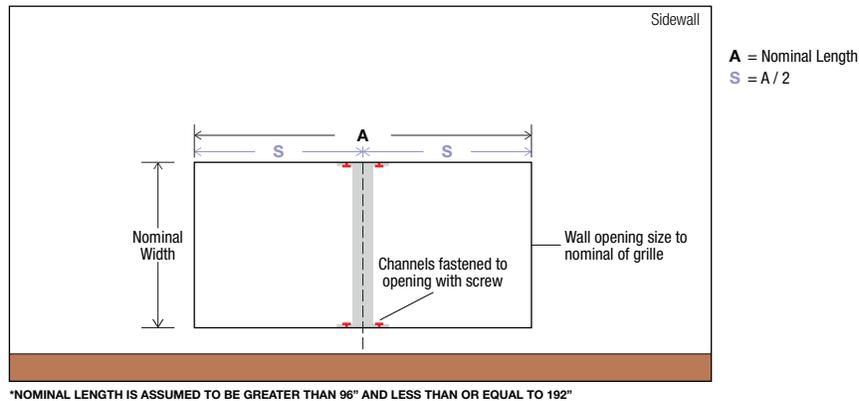
**NOTE:** Blocking recommended if grille is laid into drywall.

**NOTE:** Ensure blocking does not interfere with duct work.

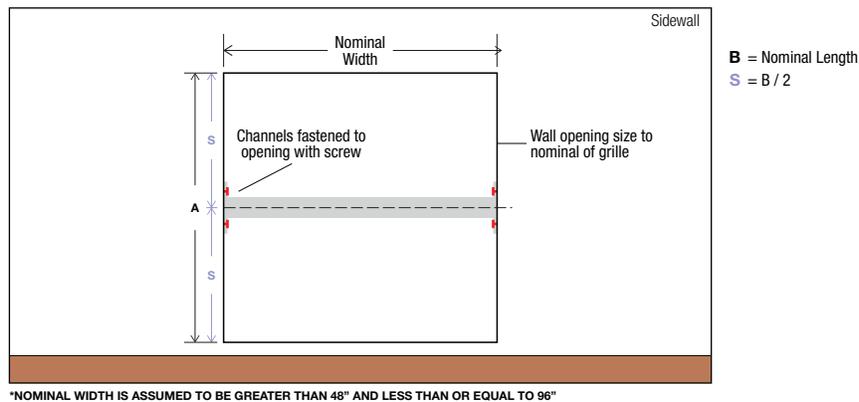
# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

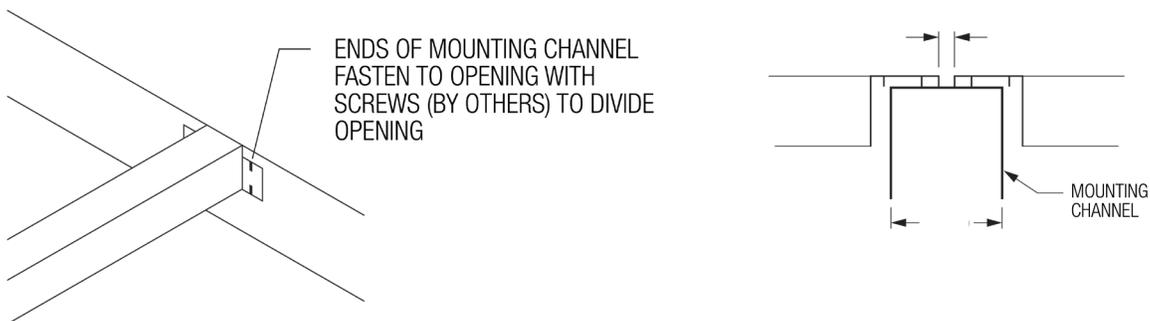
**Step 1A:** For grilles with length above 96" and width equal to or below 48", the order should come with one mounting channel equal the size of the width. Position the mounting channel in the center and parallel to width of opening.



**Step 1B:** For grilles with length equal to or below 96" and width above 48", the order should come with one mounting channel equal the size of length. Position the mounting channel in the center and parallel to length A of opening.



**Step 2:** Once duct channels are positioned, fasten the ends to the opening using screws provided by others.



**Step 3:** Place a grille in the gap in between the mounting channel and fasten the grille to the mounting channel and drywall/framing.



DETAIL A

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Mounting for Two Dimension Oversize

This sub section applies to grilles ordered with both the length above 96" and the width above 48" and will be installed for surface mount drywall applications with "A – Countersunk Holes" mounting.

#### Application: Ceiling and Sidewall

#### Applicable Models: 80, 81 and 82

#### Applicable Frames: F and N

#### Applicable Fastening: A

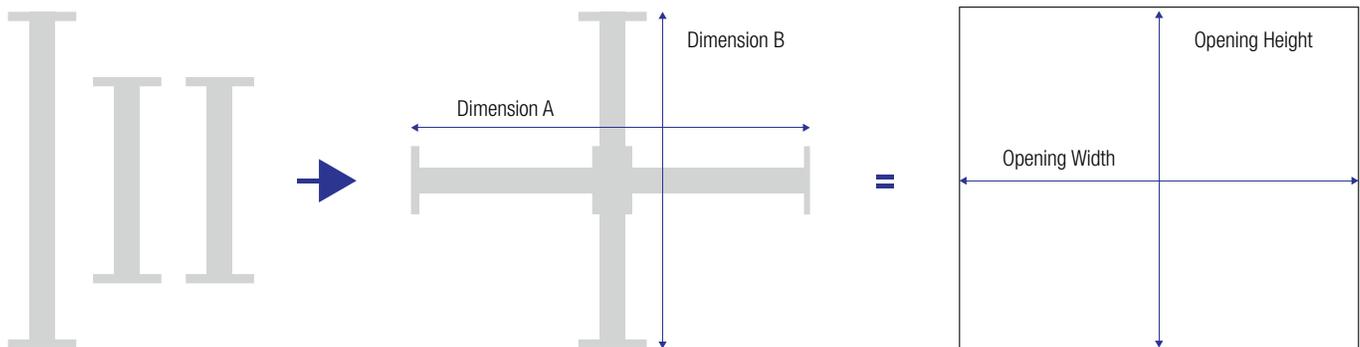
Sample line string:

80//1104.000/54.000//SW/F////////A////////B12

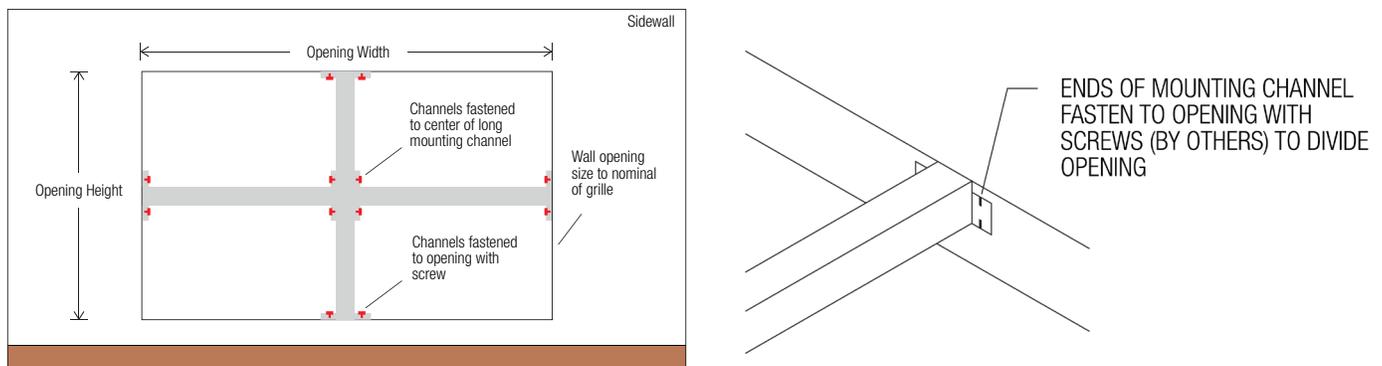
81//120.000/61.000//SW/N////////A////////B12

**Step 1:** Frame out or cut a hole opening where the grille will be placed. The size of the opening to follow nominal size listed on Factory Label.

**Step 2:** An 80 series grille that is oversized in both Dimension A and Dimension B will come with multiple mounting channels as seen below. Position the mounting channels together into a grid-like pattern where the overall dimensions of the mounting channels match the overall dimensions of the opening as seen below.



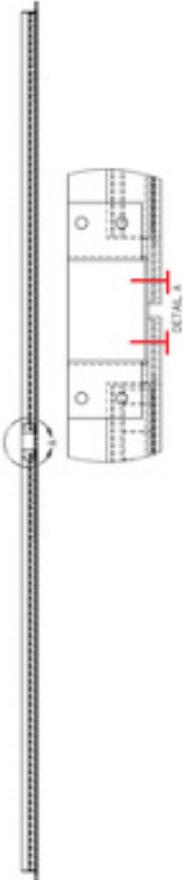
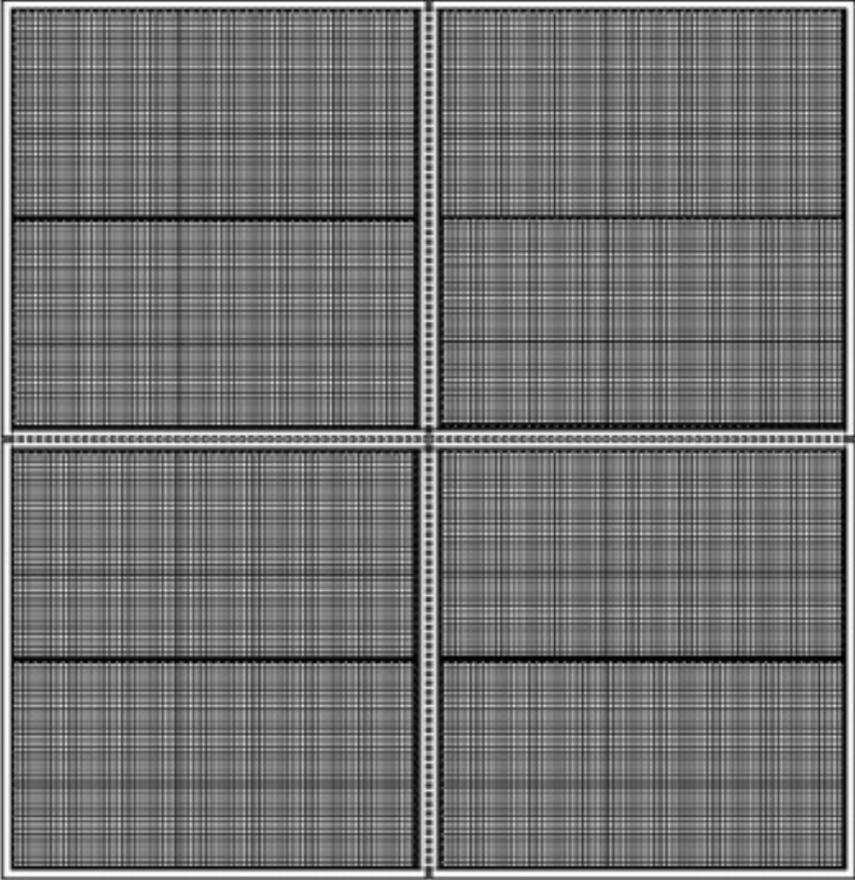
**Step 3:** Referencing orientation of the mounting channels from the previous step, place the channels in the opening. Fasten the ends of the mounting channel to the opening and into each other using screws provided by others.



**Step 4:** Place a grille in the gap in between the mounting channel(s) and fasten the grille to the mounting channel and drywall/framing.

# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS



# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

### Accessory Installation

#### **Opposed Blade Damper (Accessory Option)**

This applies when a damper is ordered as an accessory option with the grille.

**Applicable Models: 80/81/82 grilles**

**Applicable Frames: All except CH and C**

**Applicable Fastening: All except HL, HS, and QR**

Sample line string:

80//1/24.000/24.000//SW/F////////A/////VCS3/B12

81//1/11.000/11.000//LI/NF////////12/12//0/////VCS3AL/B12

**Step 1:** Inspect the damper for any damage. The damper ordered should come readily mounted on the neck of the grille. If damper is not found in the shipment, refer to step 1A.

**Step 1A:** Ensure that the line string states that a damper should be included. The line string for the product will have either VCS3, VCS3AL or VCS3SS as seen in bold below:

80//1/24.000/24.000//SW/F////////A/////VCS3/B12

81//1/11.000/11.000//LI/NF////////12/12//0/////VCS3AL/B1

If damper is unable to be found, contact your local Price representative.

#### **Opposed Blade Damper (Ordered Separately)**

This applies when a damper is ordered as a separate product for field installation.

**Applicable Models: 80/81/82 grilles**

**Applicable Frames: All except CH and C**

**Applicable Fastening: All except HL, HS, and QR**

Sample line string:

VCS3-1-1//1/12.000/12.000/A/MILL

VCS3AL-1-1//1/8.000/8.000/E/MILL

**Step 1:** Inspect the damper for any damage and ensure that the operator is functioning properly to adjust the damper blades.

**Step 2:** Align the damper on the neck of the grille. For installation without z-clips, refer to step 3A for installation with z-clips, refer to step 3B.



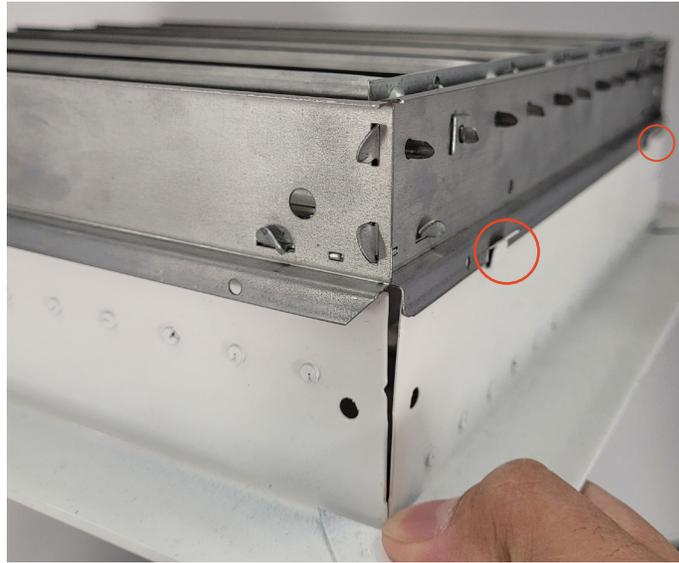
# 80 SERIES GRILLE

## INSTALLATION & MOUNTING INSTRUCTIONS

**Step 3A:** If z-clips are not ordered for the damper, secure the damper to the neck of the grille using self-tapping sheet metal screws.

**Step 3B:** The Z-clips are press fitted to the edge of the grille neck.. The damper should then snap in place as seen below:

Grille Size	Number of Damper Sections	Number of Z Clips
4" to 24"	1	4
Above 24" to 48"	2	8



# 80 SERIES GRILLE

## PARTS LIST

### "A" – Countersunk Mounting Parts

Part Name	Description	Part Number
A Mounting Screws (Steel)	Steel #8 x 1.5 Type "A" Screws, B12 White	900179-001
A Mounting Screws (Steel)	Steel #8 x 1.5 Type "A" Screws, B12 Mill	900179-004
A Mounting Screws (Aluminum)	Aluminum #8 x 1.5 Type "A" Screws, Mill	031720-003
A Mounting Screws (Stainless Steel)	Stainless Steel #8 x 1.5 Type "A" Screws, Mill	031746-002

### "C" – Concealed Mounting Parts

Grille Type	Grille Size	Description	Part #	QTY
Grille without Damper - 205775	Grilles 12" and Less	CMB Outer Bracket	205798-999	1
		CMB Side Angle Bracket	205831-004	2
		Mounting Screw #8 x 2.500 Bracket Screw	031948-002	2
		Washer NPRN #2629	033363-001	2
		Threaded Clip #8 J-Nut Tinn DC-8042-8-4	032160-001	2
		Sheet Metal Screw #6-20x.375 DS RB PN PL	031011-001	2
	Grilles above 12"	CMB Outer Bracket	205798-999	2
		CMB Side Angle Bracket	205831-004	4
		Mounting Screw #8 x 2.500 Bracket Screw	031948-002	4
		Washer NPRN #2629	033363-001	4
		Threaded Clip #8 J-Nut Tinn DC-8042-8-4	032160-001	4
		Sheet Metal Screw #6-20x.375 DS RB PN PL	031011-001	4
Grille with Damper - 205776	Grilles 12" and Less	CMB Outer Bracket	205802-999	1
		CMB Inner Bracket	205806-999	1
		Mounting Screw #8 x 2.500 Bracket Screw	031948-002	2
		Washer NPRN #2629	033363-001	2
		Threaded Clip #8 J-Nut Tinn DC-8042-8-4	032160-001	2
		Sheet Metal Screw #6-20x.375 DS RB PN PL	031011-001	2
	Grilles above 12"	CMB Outer Bracket	205802-999	2
		CMB Inner Bracket	205806-999	2
		Mounting Screw #8 x 2.500 Bracket Screw	031948-002	4
		Washer NPRN #2629	033363-001	4
		Threaded Clip #8 J-Nut Tinn DC-8042-8-4	032160-001	4
		Sheet Metal Screw #6-20x.375 DS RB PN PL	031011-001	4

### Accessories

Model #	Part Name	Part Number
IS Insect Screen	Insect Screen	900089
LS Light Screen	Light Screen	505590







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This document contains the most current product information as of this printing.  
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