

MANUAL – INSTALLATION

Linear Bar Grille

LBP

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PRICE[®]

LINEAR BAR GRILLE

TABLE OF CONTENTS

Product Overview

Overview	1
Before You Start	1
Getting Started.....	1

Installation & Mounting Instructions

General Fastening	
Countersunk 'A' and Straight Hole 'H' Mounting	2
Spring Clip 'B' Mounting.....	3
Concealed 'C' Mounting	4
Concealed Mounting Components	
Style 1 Instructions	6
Style 2 Instructions	8
Fastening with Mounting Frame	
Countersunk 'A' with Mounting Frame	11
Spring Clip 'B' Fastening with Mounting Frame.....	12
Type 'C' Fastening with Mounting Frame	13
Spring Clip 'D' Mounting.....	14
T-Bar Lay-in.....	16
Core Only	17
Parts List.....	18

LINEAR BAR GRILLE

PRODUCT OVERVIEW

Product Overview

LBP: Extruded aluminum and pressed, fixed core construction. Recommended for use in sill, sidewall, and ceiling applications.

NOTE: This product is not suitable for floor applications.

The linear grilles will have one (1) 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.

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

Getting Started

STEP 1: Remove LBP grille from shipping carton and inspect for any damage.

STEP 2: Refer to the Factory Label to determine the grille's border type. The border type can be found on the line string (see bold text in sample line strings below). Grilles with an additional mounting frame have an 'F' in the line string after the border type.

Sample line strings:

LBP-1-1//I//12.000/4.000/25B/**1000**//L//A/XX///B12

LBP-1-1//I//12.000/4.000/25B/**1000/F**//L//A/XX///B12

STEP 3: Refer to Factory Label to determine the type of fastening for the grille. The type of fastening can be found in the line string (see bold text in sample line string below). Use the following table for the appropriate reference page.

Sample line string:

LBP-1-1//I//12.000/4.000/25B/1000/F/L//**B**/XX///B12

Fastening Type	Line String Symbol	Applicable Border Type	Page Number
Countersunk holes	A	1000, 1250	2
		1000F, 1250F	11
Straight holes	H	500, 750	2
Spring Clip B	B	500, 750, 1000, 1250	3
		750F, 1000F, 1250F	12
Concealed	C	500, 750, 1000, 1250	4
		750F, 1000F, 1250F	13
Spring Clip D	D	250F, 500F	14
No Screw holes	0	250	16
		CORE	17

STEP 4: Continue to the page number listed in the table above for the installation instructions

LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

General Fastening

Countersunk 'A' and Straight Hole 'H' Mounting

Application: Ceiling, wall & sill.

'A' Fastening Borders: 1000 & 1250

'H' Straight Hole Borders: 500 & 750

Sample line string:

LBP-1-1//11/12.000/4.000/25B/1000//L//**A**/XX//B12

LBP-1-1-1//11/12.000/4.000/25B/500//L//**H**/XX//B12

STEP 1: Frame out and/or cut an opening where the grille will be placed. The opening dimensions should follow the opening size listed in the table below.

Border Type	Opening
1000 & 1250	Nominal
500 & 750	Nominal - 1/2 in.

The nominal size can be found in the line string (see bold text in the sample below).

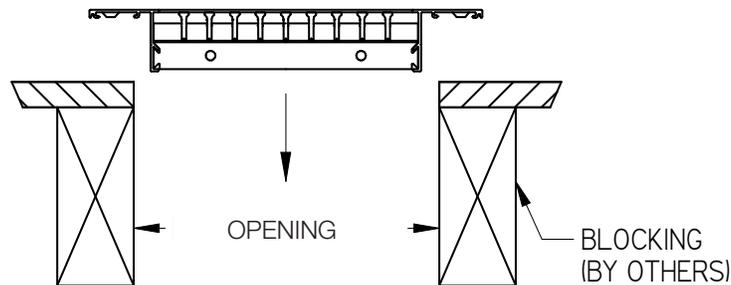
Sample line string:

LBP-1-1-1//11/**12.000/4.000**/25B/500//L//**H**/XX//B12

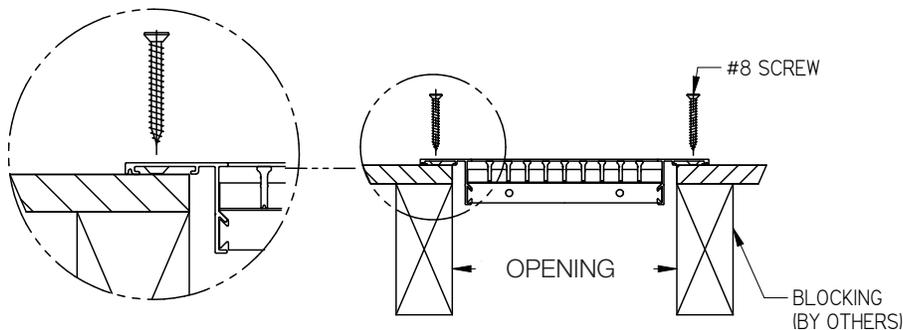
NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the application of the grille has been determined and the opening has been cut/framed out with the recommended blocking, place the grille in the opening.



STEP 3: Screw the grille into place using #8 countersunk ('A' mounting) or straight hole ('H' mounting) screws provided by Price.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Spring Clip 'B' Mounting

Application: Sill only, not to be used for ceiling or sidewall installation

Applicable Frames: 500, 750, 1000 & 1250

Sample line string:

LBP-1-1//L//12.000/6.000/26B/1250//L//**B**/XX//B12

STEP 1: Frame out and/or cut an opening where the grille will be placed. The opening dimensions should be equal to the nominal size listed in the line string (see bold text in the sample below).

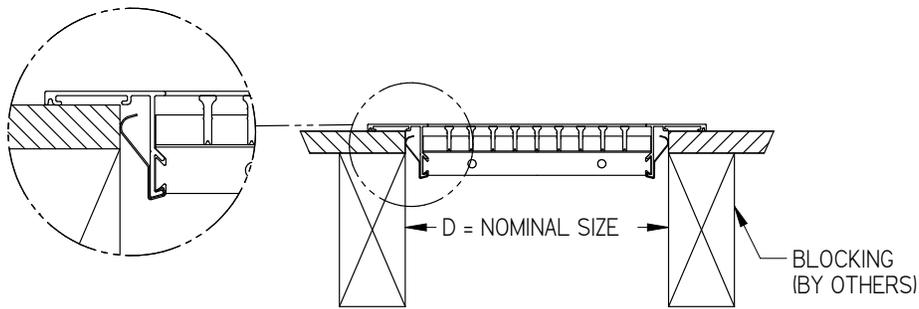
Sample line string:

LBP-1-1//L//**12.000/4.000**/25B/500//L//H/XX//B12

NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the application of the grille has been determined and the opening has been cut and framed out with the recommended blocking, lay the grille into the opening. Push the grille into the opening until the frame comes in contact with the sill.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Concealed 'C' Mounting

Application: Ceiling, sidewall, and sill.

Applicable borders: 500, 750, 1000, and 1250

Sample line string:

LBP-1-1/////12.000/6.000/15B/1000//L//**C**/XX///B12

STEP 1: Frame out and/or cut an opening where the grille will be placed. The opening dimensions should be equal to the nominal size listed on the line string (see bold text in sample below).

Sample line string:

LBP-1-1/////12.000/4.000/25B/500//L//**C**/XX///B12

NOTE: Blocking recommended if grille is laid into drywall.

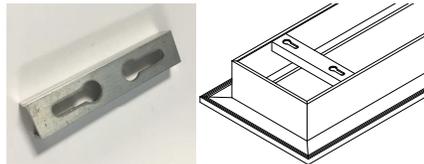
NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Open the bag with the hardware and determine the style of concealed mounting brackets provided (refer to images below). If Style 1, proceed to STEP 3. If Style 2, proceed to STEP 8.

Concealed Mounting Components:

Style 1

INNER MOUNTING BRACKET ▼



NOTE: THE INNER MOUNTING BRACKETS COME ATTACHED TO THE GRILLE.

MOUNTING SCREW ▼



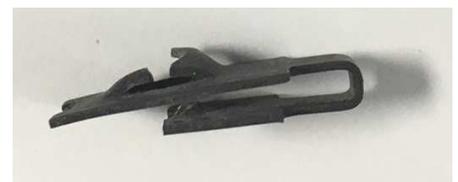
RUBBER WASHER ▼



OUTER MOUNTING BRACKET ▼



BLACK THREADED CLIP ▼



Minimum width: 2" (51mm)

Maximum width: 12" (305mm)

Minimum Length: 4" (102mm) - No directional vanes or dampers; 8" (203mm) - With directional vanes and/or dampers

Suitable blade pattern: Parallel to long dimension only ('L' in the line string)

Suitable core styles: 15B, 16B, 25B, 26B, 27B & 25C

Part Name	LBP Width 3" and under			LBP Width over 3"		
	LBP Length			LBP Length		
	< 34"	34" to 43"	44" to 72"	< 34"	34" to 43"	44" to 72"
	Part Quantity					
Inner Mounting Bracket	2	3	4	2	3	4
Mounting Screw	2	3	4	4	6	8
Rubber Washer	2	3	4	4	6	8
Outer Mounting Bracket	2	3	4	2	3	4
Black Threaded Clip	2	3	4	4	6	8

LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Style 2

INNER MOUNTING BRACKET ▼



SELF DRILLING SCREW ▼



MOUNTING SCREW ▼



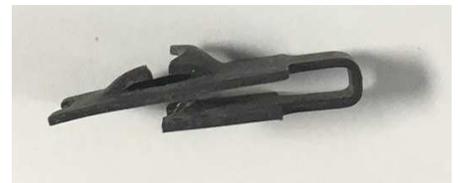
RUBBER WASHER ▼



OUTER MOUNTING BRACKET ▼



BLACK THREADED CLIP ▼



(Proceed to STEP 8)

Minimum width: 2" (51mm)

Maximum width: 18" (457mm)

Minimum Length: 4" (102mm) - No directional vanes or dampers; 8" (203mm) - With directional vanes and/or dampers

Suitable core styles: 15B, 16B, 25B, 26B, 27B & 25C

NOTE: The length, width, blade pattern, and core style can be found on the line string. See the sample line string below where the length is 12", width is 6", core style is 15B, and the blade pattern is L.

Sample line string:

LBP-1-1//12.000/6.000/15B/1250//L//C/XX//B12

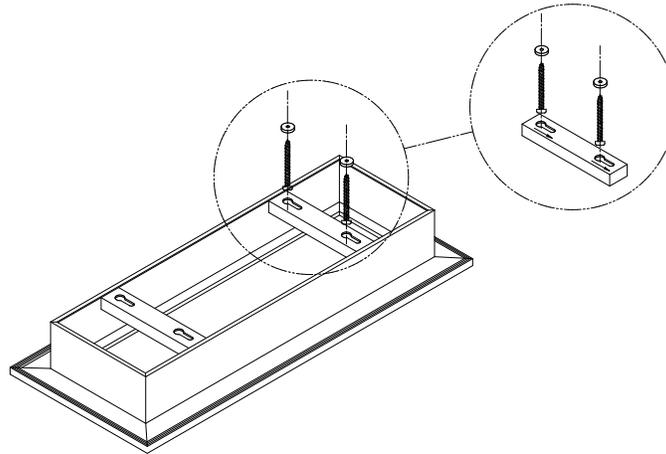
Part Name	LBP Width 3" and under			LBP Width over 3"		
	LBP Length			LBP Length		
	< 34"	34" to 43"	44" to 72"	< 34"	34" to 43"	44" to 72"
	Part Quantity					
Inner Mounting Bracket	2	3	4	4	6	8
Self Drilling Screw	4	6	8	4	6	8
Mounting Screw	2	3	4	4	6	8
Rubber Washer	2	3	4	4	6	8
Outer Mounting Bracket	2	3	4	2	3	4
Black Threaded Clip	2	3	4	4	6	8

LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

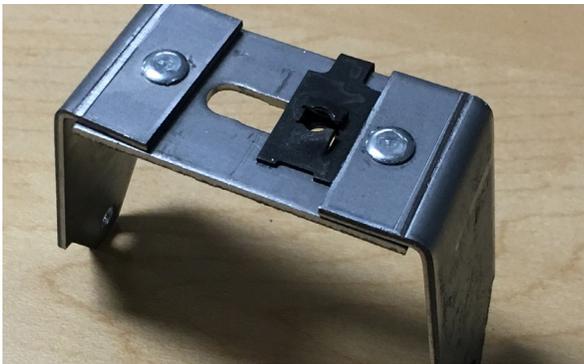
Style 1 Instructions

STEP 3: Install mounting screws through the slotted holes of the inner 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.

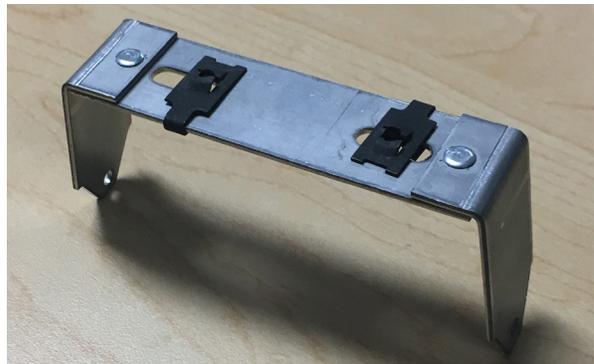


STEP 4: Place the black threaded clips on the slot(s) of the outer concealed bracket.

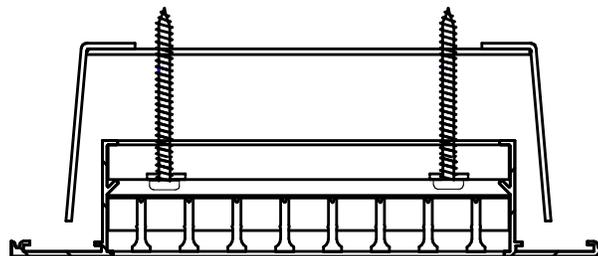
UP TO 3 IN. ▼



OVER 3 IN. ▼



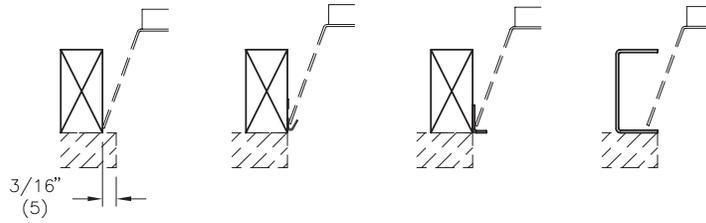
STEP 5: Place the outer brackets over the inner brackets, lining up the mounting screws with the black threaded clips of the outer brackets. With a screwdriver, turn each screw clockwise, alternating mounting screws to ensure that the outer bracket remains as parallel to the frame as possible. Keep turning the mounting screws until the outer brackets are approximately halfway down the length of the screws.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

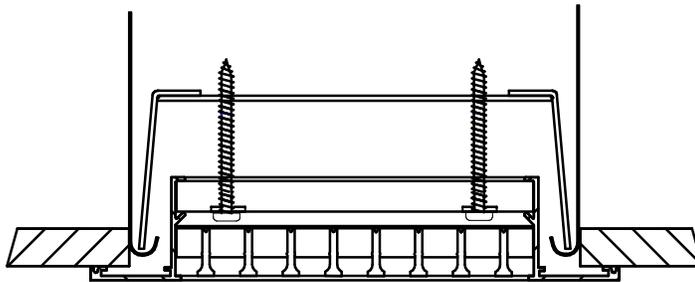
STEP 6: Install the grille with the concealed mounting brackets into the hemmed duct or wall opening.



NOTE: Ensure that the outer bracket latches onto the hem of the duct or mounting frame 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, metal stud framing.

STEP 7: Tighten concealed mounting screws until the frame comes into contact with the surface.



LINEAR BAR GRILLE

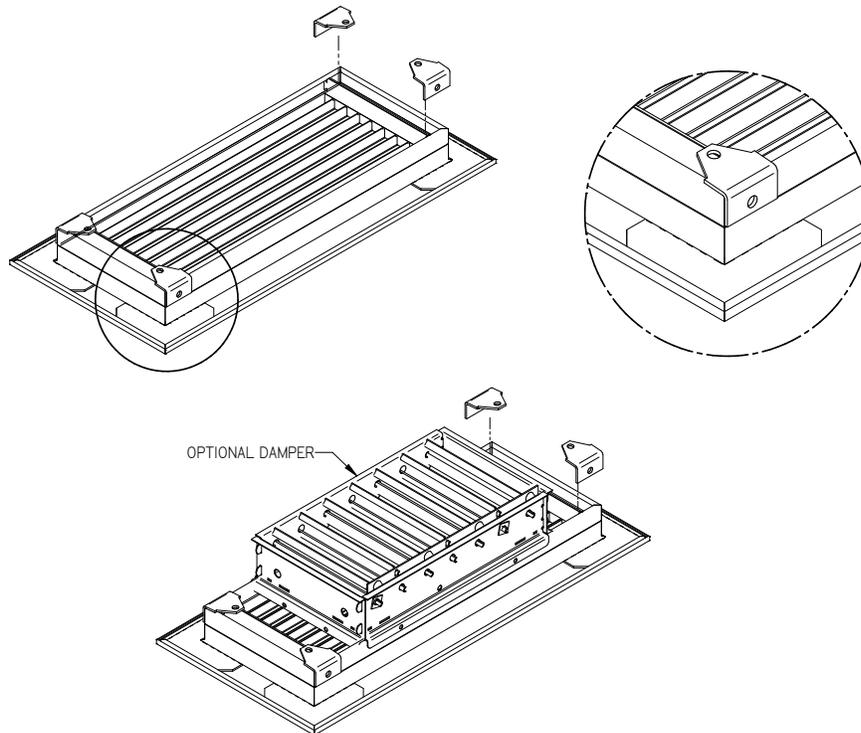
INSTALLATION & MOUNTING INSTRUCTIONS

Style 2 Instructions

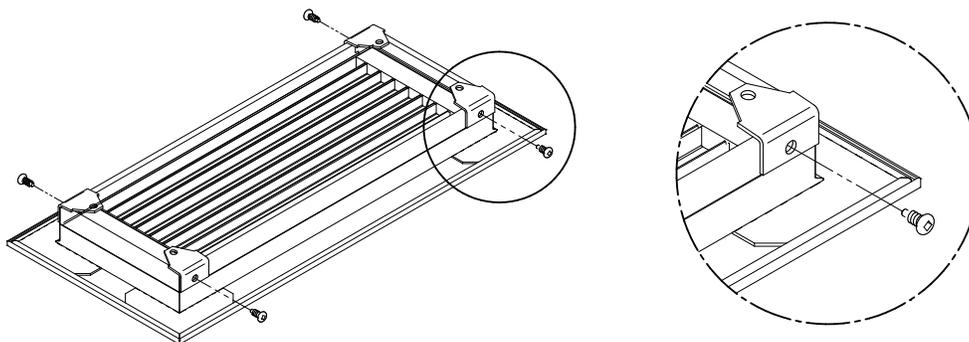
STEP 8: Determine the placement of the inner brackets. The brackets should be positioned on each end of the frame and additional brackets should be spaced evenly in-between. Align the brackets on opposite sides of the frame as much as possible. Do not place brackets directly over a support bar to ensure there is enough room to insert the mounting screws through the face of the grille.

NOTE: For grilles 3" and under, only one inner bracket is installed per bracket assembly. In this case, position a single inner bracket on either side of the frame.

NOTE: For grilles with dampers or DV1 directional vanes, position the inner brackets in the spaces between them.



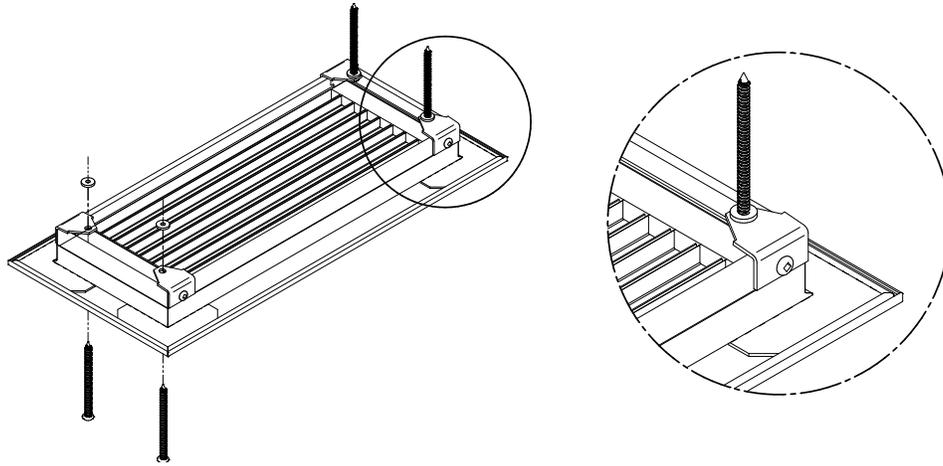
STEP 9: Place the grille on a flat, clean, protected surface to avoid damaging the face of the grille. Using the self-drilling screws provided, screw the short ends of the inner brackets into the grille's frame (see image below). Make sure to align the brackets on each side of the frame as much as possible.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

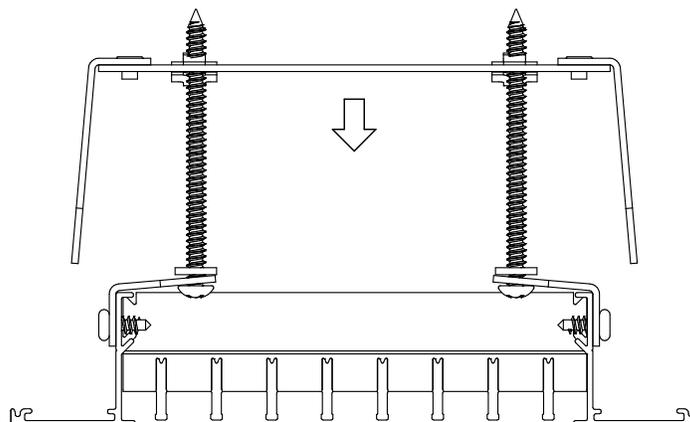
STEP 10: Insert the provided mounting screws through the face of the grille into the holes of the inner brackets and fully drive the screws into the brackets. Retain the mounting screws in place by using the provided rubber washers; slide the washers all the way down to the base of the screws.



STEP 11: Place the black threaded clips on the slot(s) of the outer concealed brackets.



STEP 12: Place the outer brackets over the inner brackets, lining up the mounting screws with the black threaded clips of 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 brackets are approximately halfway down the length of the screws.



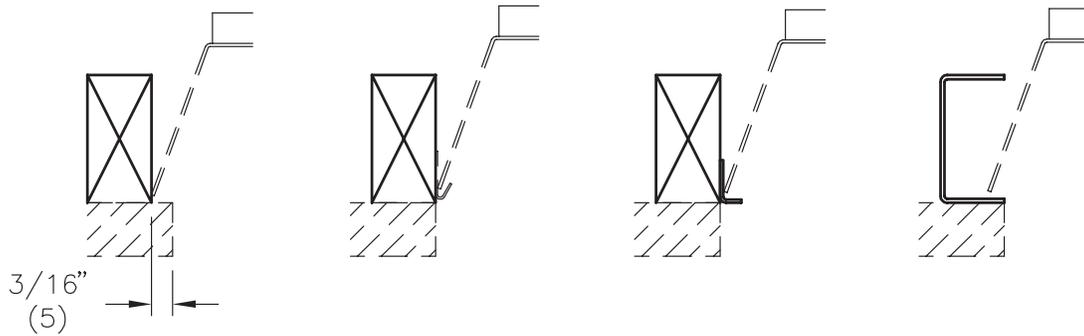
LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

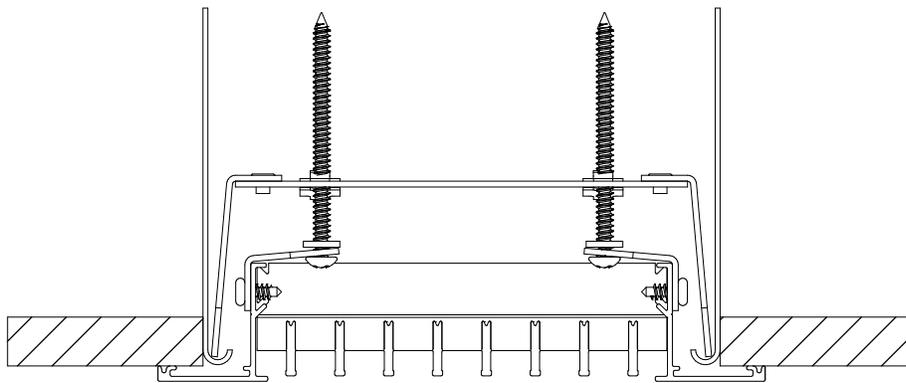
STEP 13: Install the grille with the concealed mounting brackets into the hemmed duct or wall opening.

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

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



STEP 14: Tighten concealed mounting screws until the frame comes into contact with the surface.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Fastening with Mounting Frame

Countersunk 'A' with Mounting Frame

Application: Ceiling, sidewall & sill

'A' Fastening Borders: 1000F & 1250F

Sample line string:

LBP-1-1//11/12.000/4.000/25B/1000/F/L//A/XX//B12

STEP 1: Frame out and/or cut a hole opening where the grille will be placed. Framing and opening dimension should be equal to the nominal size + 1/4 in. The nominal size can be found in the line string (see bold text in the sample below).

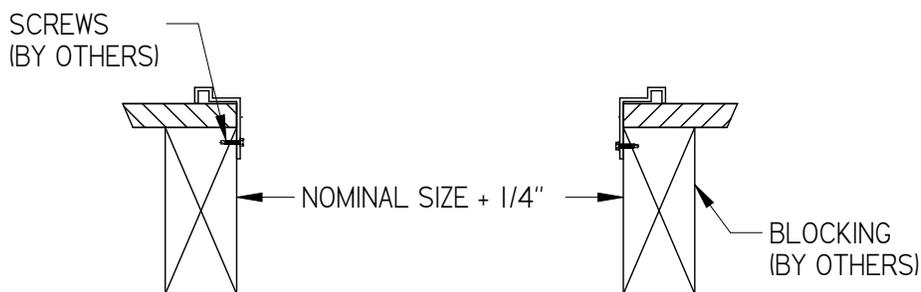
Sample line string:

LBP-1-1//11/**12.000/4.000**/25B/1000/F/L//A/XX//B12.

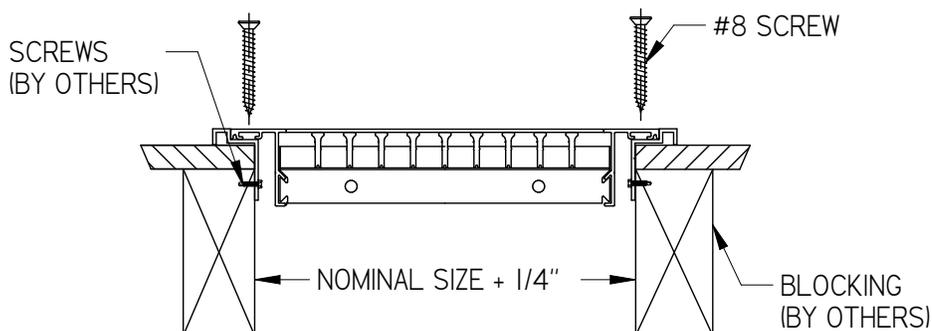
NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the opening has been cut/framed out with the recommended blocking, screw the mounting frame into the blocking to secure it into place.



STEP 3: Place the grille in the opening and screw it into place using the #8 screws provided by Price.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Concealed 'C' Fastening with Mounting Frame

Application: Ceiling, sidewall, and sill

Applicable borders: 750F, 1000F & 1250F

Sample line string:

LBP-1-1//12.000/6.000/15B/1000/F/L//**C**//XX//B12

STEP 1: Frame out and/or cut an opening where the grille will be placed. The opening dimensions should follow the opening size listed in the table below.

Unsuitable core styles: 15A, 16A, 26C or 27C.

Suitable core styles: 15B, 16B, 25B, 25C, 26B & 27B

Frame Type	Opening
750F	Nominal + 1/8 in.
1000F	Nominal + 1/4 in.
1250F	Nominal + 1/4 in.

The nominal size can be found in the line string (see bold text in the sample below).

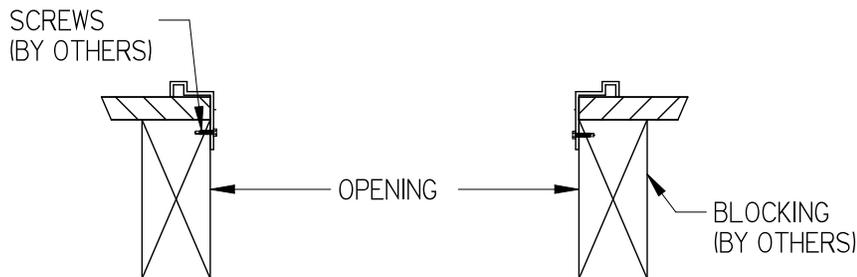
Sample line string:

LBP-1-1//12.000/6.000/15B/1000/F/L//**C**//XX//B12

NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the opening has been cut/framed out with the recommended blocking, screw the mounting frame into blocking to secure it in place.



STEP 3: Continue to page 4, STEP 2 of Concealed 'C' Mounting and follow the instructions.

LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Spring Clip 'D' Mounting

Application: Recommended for sill only

Applicable borders: 250F & 500F

Sample line string:

LBP-1-1//11/12.000/6.000/26B/500/F/L//**D**/XX//B12

250F Border

STEP 1: Frame out where the grille will be placed. The opening dimensions should be equal to the nominal size listed on the line string (see bold text in the sample below).

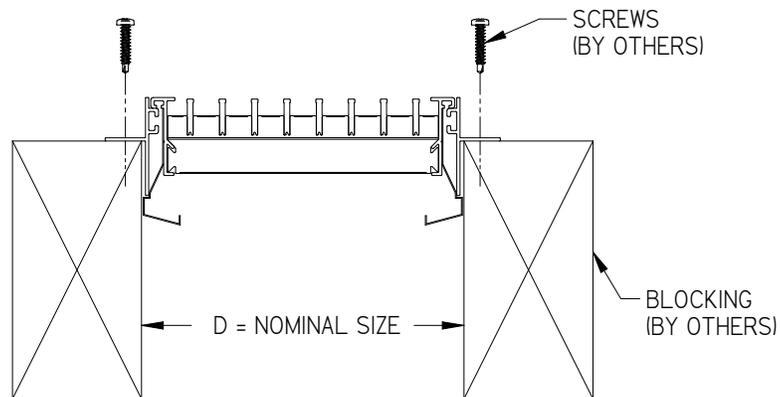
Sample line string:

LBP-1-1//11/**12.000/6.000**/26B/250/F/L//D/XX//B12

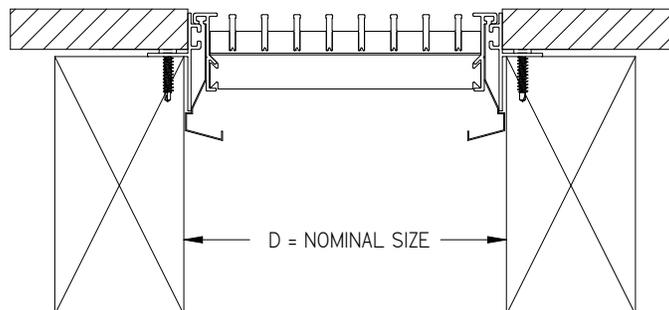
NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the application of the grille has been determined and the opening has been framed out with the recommended blocking, screw the mounting frame into the blocking to secure it in place.



STEP 3: Install the drywall around the frame as required.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

500F Border

STEP 1: Frame out and/or cut an opening where the grille will be placed. The opening dimensions should be equal to the nominal size listed on the line string (see sample below).

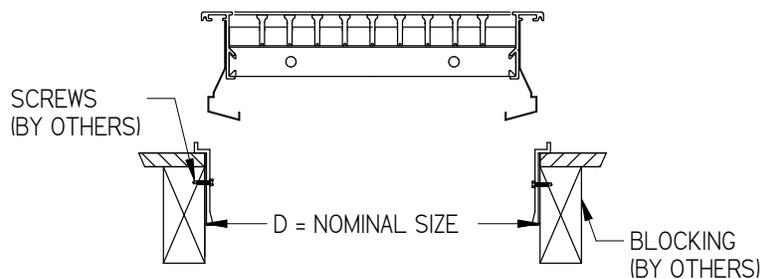
Sample line string:

LBP-1-1//11/12.000/6.000/26B/500/F/L//D/XX//B12

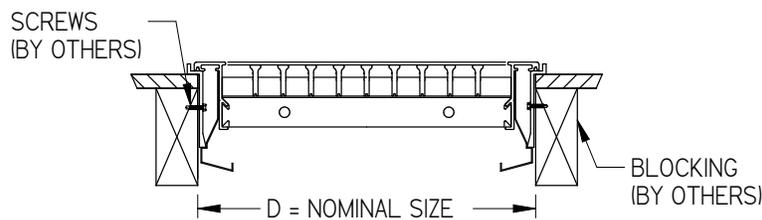
NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the application of the grille has been determined and the opening has been framed out with the recommended blocking, screw the mounting frame into the blocking to secure it in place.



STEP 3: Press the grille into the opening until the spring clips snap onto the mounting frame. Install the drywall around the frame as required.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

T-Bar Lay-in

No Screw Holes '0' Mounting

Application: T-bar lay-in only

Applicable borders: 250

Sample line string:

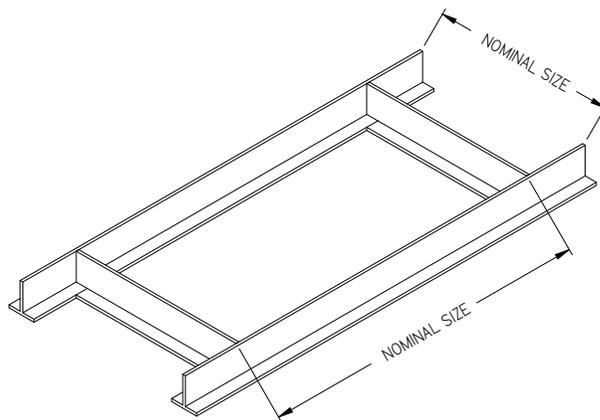
LBP-1-1//1/24.000/12.000/26B/250//L//**0**/XX//B12

STEP 1: Install the ceiling grid. The ceiling grid dimensions should be equal to the nominal size listed on the factory label. The nominal size can be found on the line string (see bold text in the sample below).

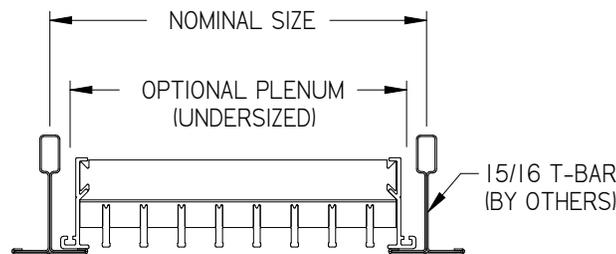
Sample line string:

LBP-1-1//1/**24.000/12.000**/26B/250//L//0/XX//B12

NOTE: Only 15/16" T-bar ceiling grid is recommended.



STEP 2: Lay the grille into the ceiling grid. A plenum (if required) can be attached to the back of the grille before being laid into the ceiling grid. Ensure the plenum dimensions are undersized from the nominal size to avoid interference with the ceiling grid.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Core Only

No Screw Holes '0' Mounting

Application: Sil only

Applicable borders: CORE

Sample line string:

LBP-1-1///12.000/6.000/26B/**CORE**//L//0//YY///B12

NOTE: Core only grille requires additional supports by others.

STEP 1: Frame out where the grille will be placed. The opening dimensions should be equal to the nominal size listed on the line string (see bold text in the sample below).

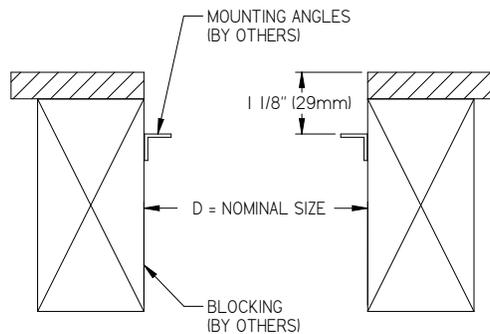
Sample line string:

LBP-1-1///12.000/6.000/26B/**CORE**//L//0//YY///B12

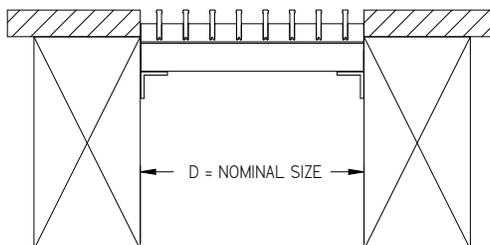
NOTE: Blocking recommended if grille is laid into drywall.

NOTE: Ensure blocking does not interfere with duct work.

STEP 2: Once the application of the grille has been determined and the opening has been cut/framed out with the recommended blocking, install mounting angles (by others) into the blocking.



STEP 3: Lay the core into the mounting angles.



LINEAR BAR GRILLE

INSTALLATION & MOUNTING INSTRUCTIONS

Part List

A & H Mounting

Part Name	Finish	Part Number
A Mounting Screws	B12 - White	900179-001
	B15 - Metallic Gray	900179-002
	B17 - Black	900179-003
H Mounting Screws	MILL - Unpainted	900179-004
	-	031948-999

B Mounting

Part Name	Part Number
B Spring Clip	026423-002

D Mounting

Part Name	Part Number
D Spring Clip	026425-001

Concealed Mounting Parts

Part Name	Description	Part Number
Inner Bracket		238079
Inner Bracket, Style 2		205831-004
Outer Bracket		205798
Hardware		205824
Hardware Parts		205824
Mounting Screw	SMS #8-2.00 A Quad FI ZP	031936-004
Mounting Screw	SMS #8x2.5 A PH PN PL	031949-001
Threaded clips	#8 J-Nut Tinn DC-8042-8-4	032160-001
Washer	Washer NPRN #2629	033363-001
Sheet metal screws	#6-20x.375 DS RB PN PL	031011-001

Accessories

Part Name	Description	Part Number
Splice Plate	Alignment Splice Plate for Frames 500 and 750	237964-001
	Alignment Splice Plate for Frames 1000 and 1250	237964-002

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For the most up-to-date product information, please go to priceindustries.com

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