USG Ceiling Solutions

Paraline® Baffles in different widths and depths, custom color (computer generated image)

USG PARALINE®
BAFFLES LINEAR METAL CEILING SYSTEM

INSTALLATION GUIDE

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USG Ceiling Solutions

USG PARALINE® BAFFLES

LINEAR METAL CEILING SYSTEM

USG Paraline® Baffles is a flexible and customizable linear metal system that can achieve numerous design aesthetics and is supported for a variety of installation requirements. It is integrated with an array of components and accessories to meet visual design and installation needs.

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FOR MORE INFORMATION

Technical Service
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Website
usg.com or cgcinc.com

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SYSTEM OVERVIEW

WARRANTY

The USG Paraline® Baffles system has been tested based on the installation procedures described in this document. Failure to follow these installation instructions and guidelines will result in the voidance of the USG Ceilings Commercial Application Warranty (SC2102).

INSTALLATION REQUIREMENTS

The Paraline® Baffles system requires minimum plenum clearance above the system installation. Following the recommended installation instructions and guidelines, installation does not require the components enter the plenum space more than a typical suspended ceiling installation.

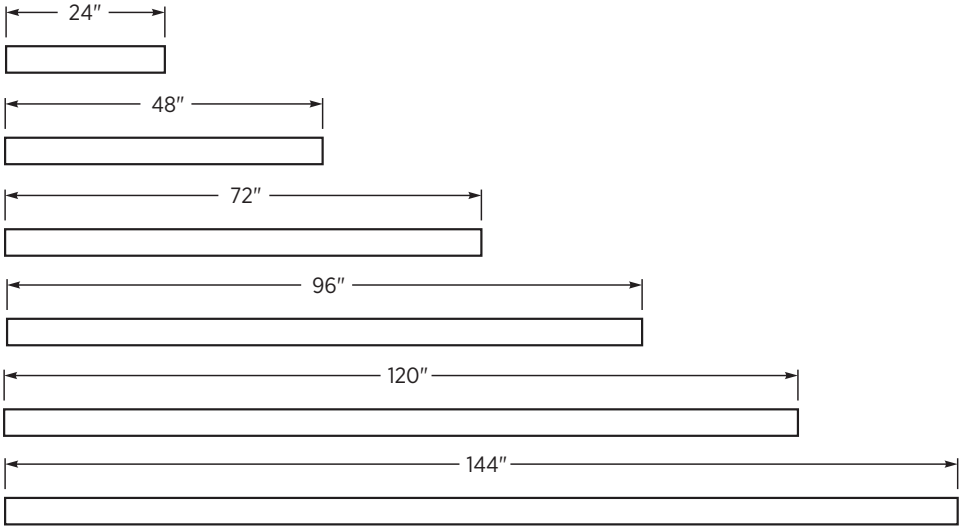
CLEANING INSTRUCTIONS

Refer to USG Metal Ceiling Panels Handling Guide IC518.

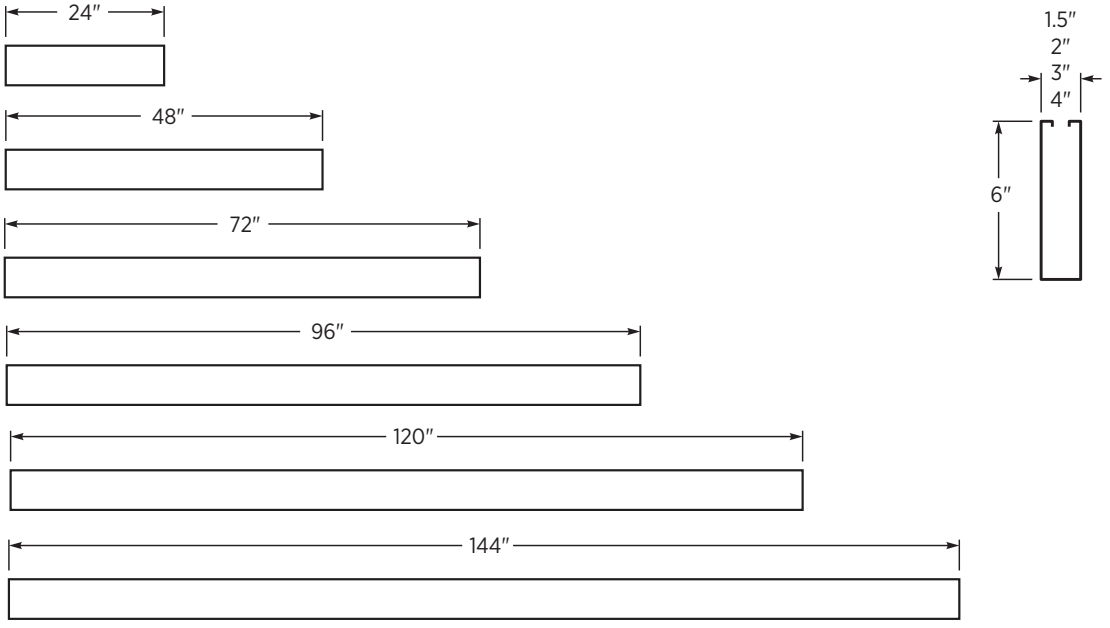
DETAILS

BAFFLE SIZES

4 in. high Profile

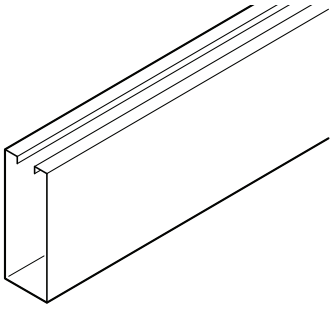
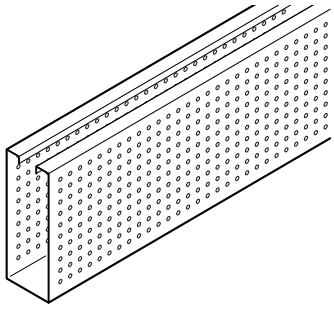
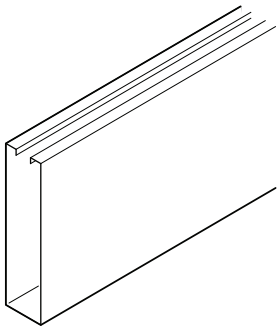
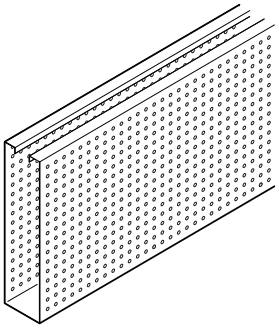
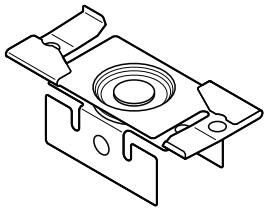
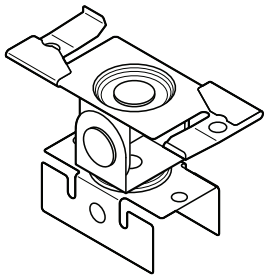
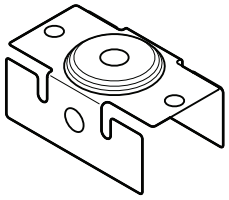
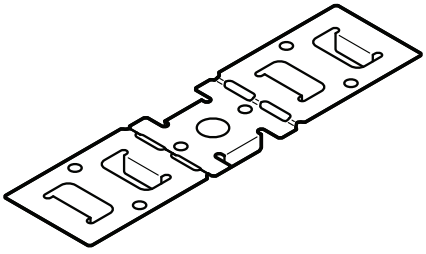


6 in. high Profile



DETAILS

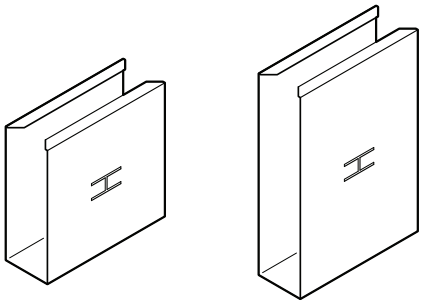
COMPONENTS

1.5 in wide x 4 in. high Baffle, Unperforated	1.5 in wide x 4 in. high Baffle, Perforated
	
1.5 in wide x 6 in. high Baffle, Unperforated	**1.5 in wide x 6 in. high Baffle, Perforated**
	
Grid Attachment Clip	**USG Curvatura™ Attachment Clip**
	
Free Attachment Clip	**Joining Clip**
	

DETAILS

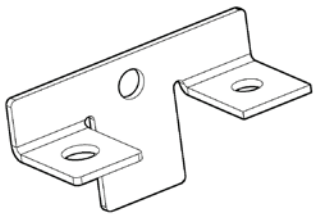
COMPONENTS

1.5 in wide x 4 in. high/ 6 in. high Splice

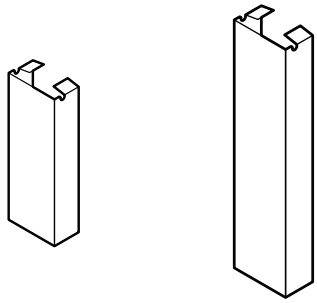


Grouping Bar Baffle Fixing Bracket

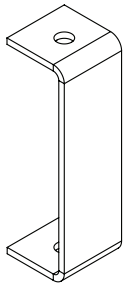
Required for seismic application.
Required for baffles wider than 1-1/2".



1.5 in wide x 4 in. high End Plug / 6 in. End Plug

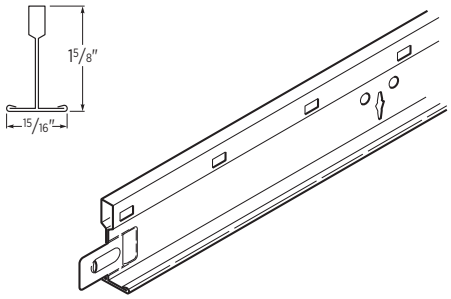


Wall Mount Batten End Cap

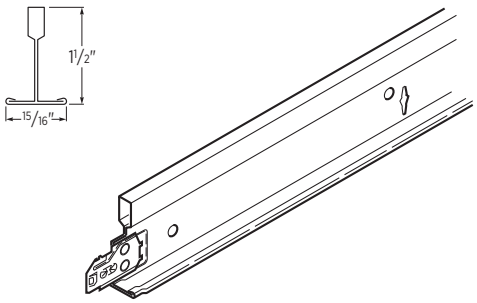


SUSPENSION SYSTEM

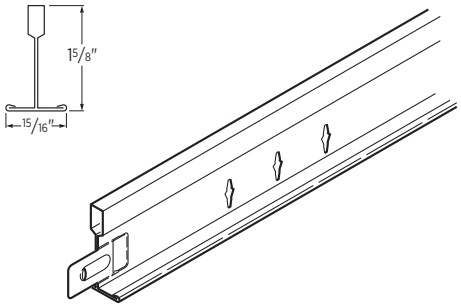
DX® Main Tee



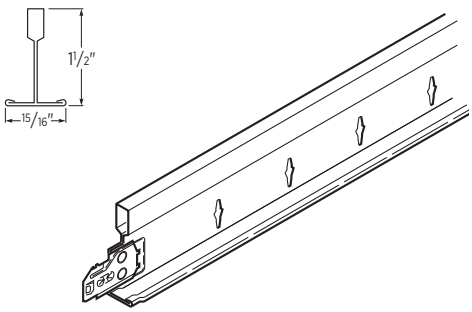
DX® Cross Tee



Gridware™ Main Tee



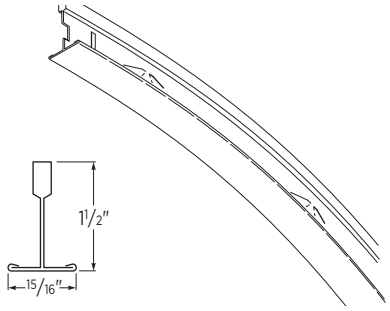
Gridware™ Cross Tee



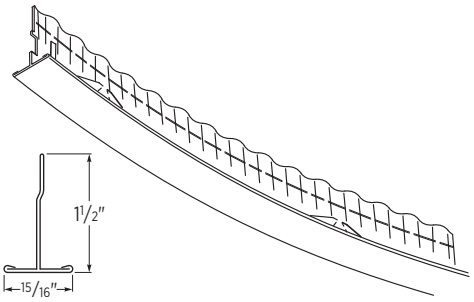
DETAILS

SUSPENSION SYSTEM

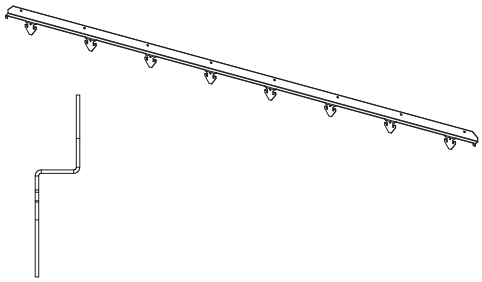
Curvatura™ Vault Main Tee



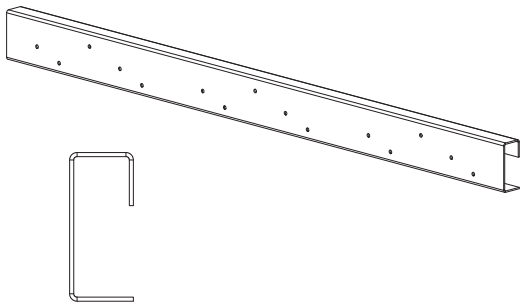
Curvatura™ Valley Main Tee



Grouping Bar 2′ and 4′ (shown)
(4″, 6″, 8″ or 12″ On Center baffles)

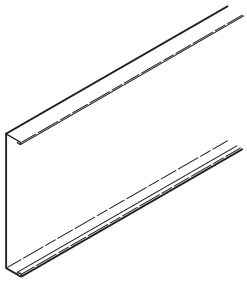


Wall Mount Batten available 2′
(4″ or 6″ On Center baffles)

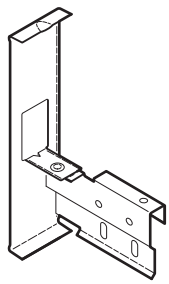


PERIMETER

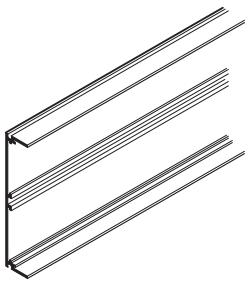
Compässo™ Standard Trim



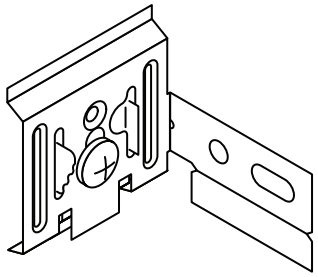
Compässo™ Standard Trim Clip



Compässo™ Elite Trim



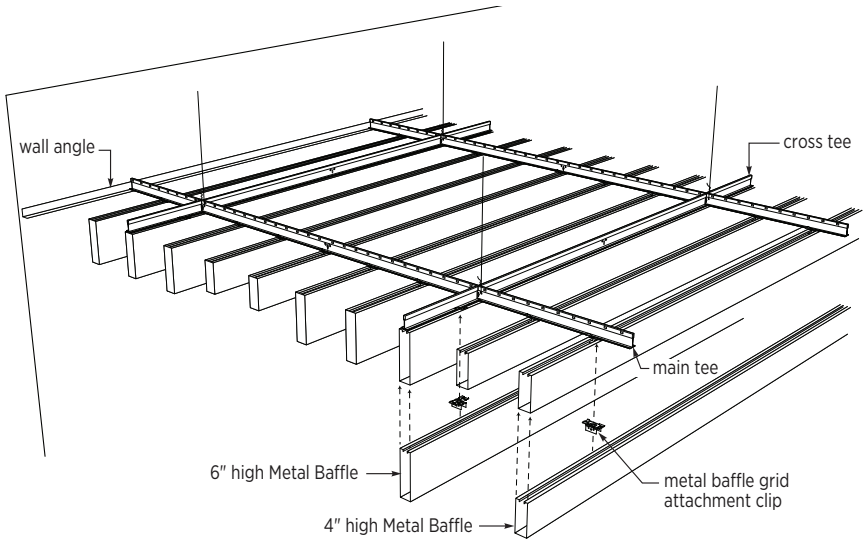
Compässo™ Elite Trim Clip



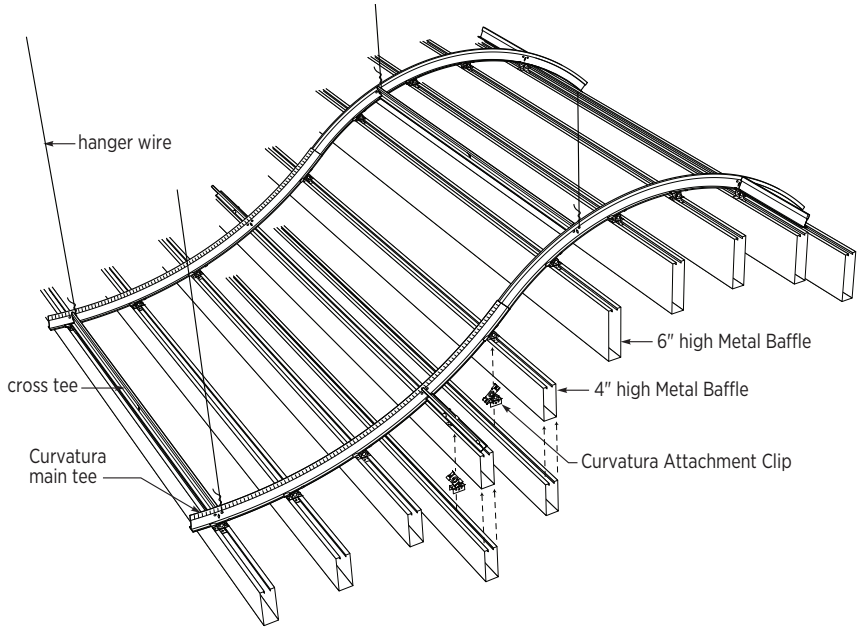
DETAILS

ASSEMBLY

Flat Grid Assembly - Grid Attachment Clip



Curvatura™ Grid Assembly



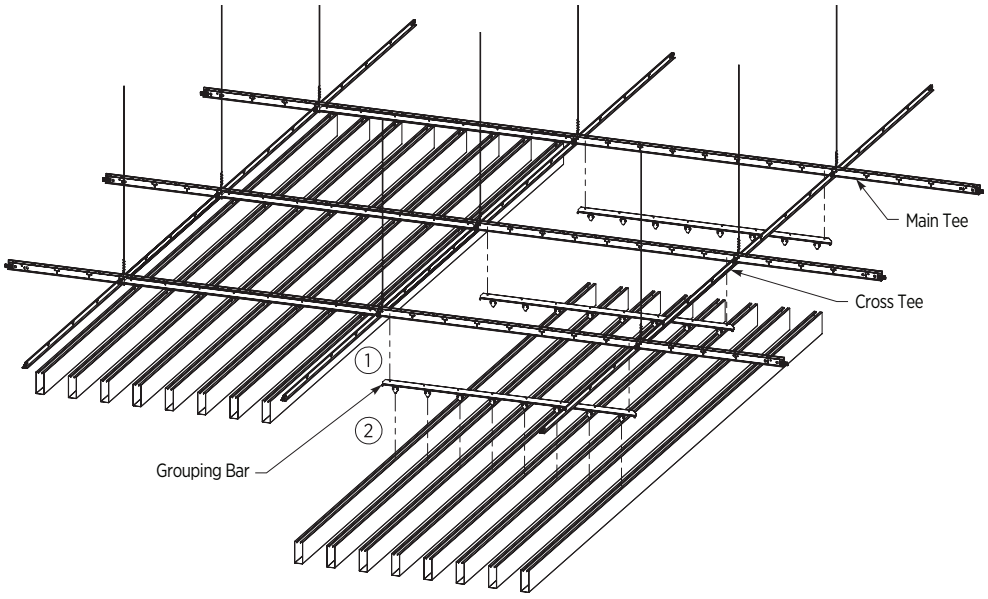
Notes:

1. Installation of baffles requires the use of a mechanical fastener to attach the Curvatura™ Attachment Clip to the Curvatura™ suspension system in all curved installations.
2. USG recommends the use of a 7/16″ self tapping pan head screw for attachment of the various clips to the baffle and to the grid system, as needed.
3. Recommended clip spacing is at 4′ on center for Baffles over 7′ long. Depending on Baffle length a third attachment clip is required.

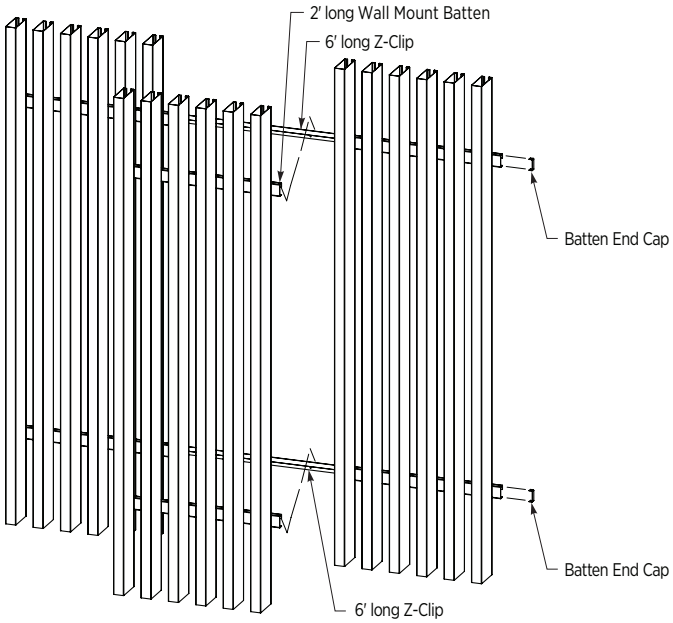
DETAILS

ASSEMBLY

Grouping Bar



Wall Mount Assembly



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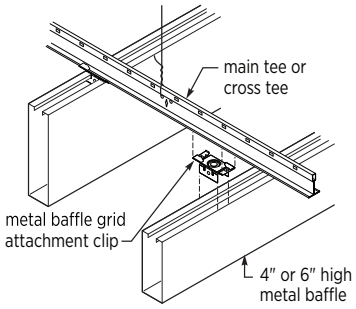
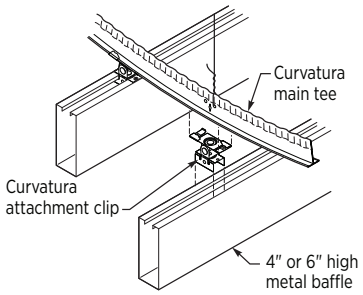
DETAILS

ASSEMBLY

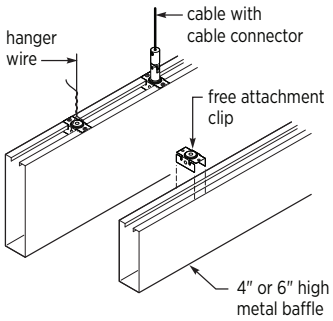
Grid Attachment Clip Assembly



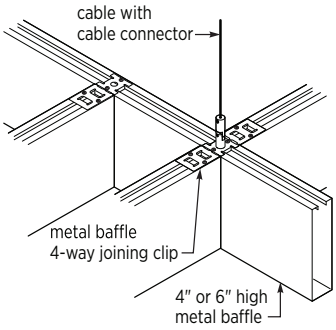
Curvatura™ Attachment Clip Assembly



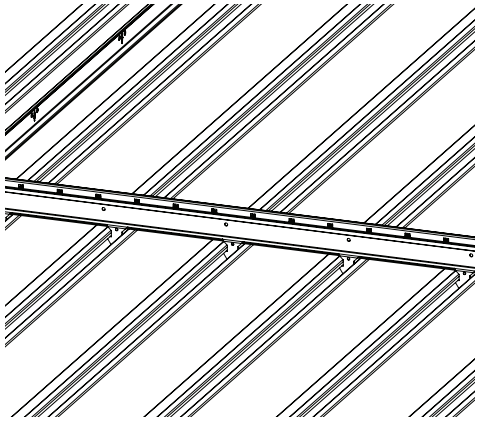
Free Attachment Clip Assembly



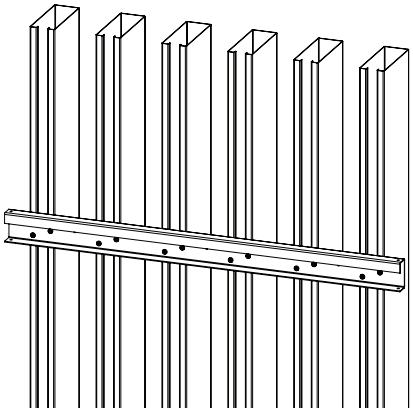
Joining Clip Assembly



Grouping Bar Assembly
(4", 6", 8" or 12" On Center baffles)



Wall Mount Batten Assembly
(4" or 6" On Center baffles)



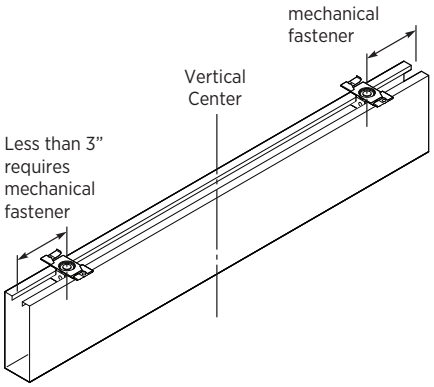
Notes:

1. Installation of baffles requires the use of a mechanical fastener to attach the Curvatura™ Attachment Clip to the Curvatura™ suspension system in all curved installations.
2. USG recommends the use of a 7/16" self tapping pan head screw for attachment of the various clips to the baffle and to the grid system, as needed.
3. Recommended clip spacing is at 4' on center for Baffles over 7' long. Depending on Baffle length a third attachment is required.

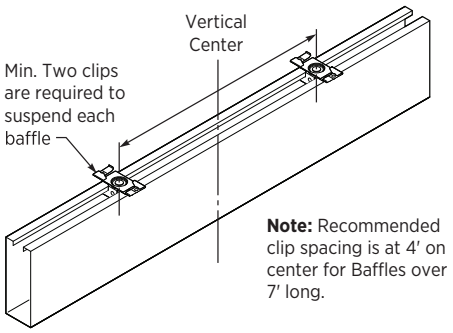
DETAILS

SUSPENSION SYSTEM

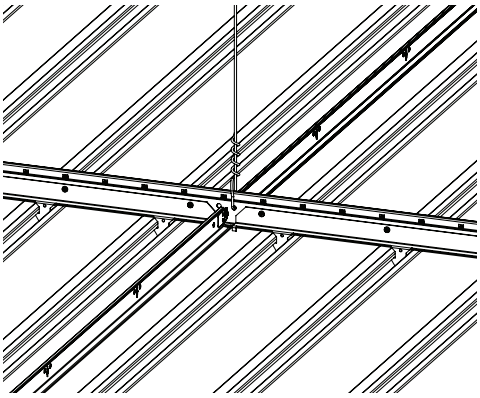
Clip Placement Detail - Requirements



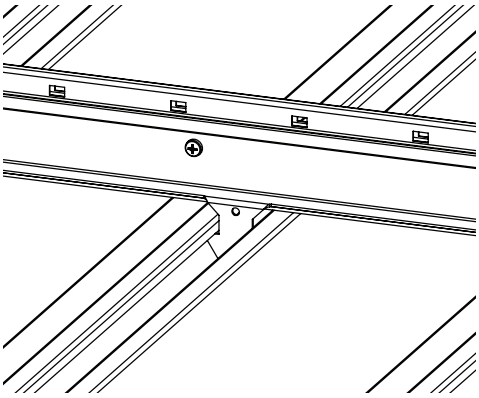
Clip Placement Detail - End Location



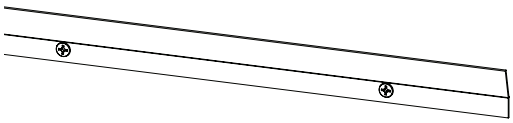
Grouping Bar Detail - Alignment with Grid



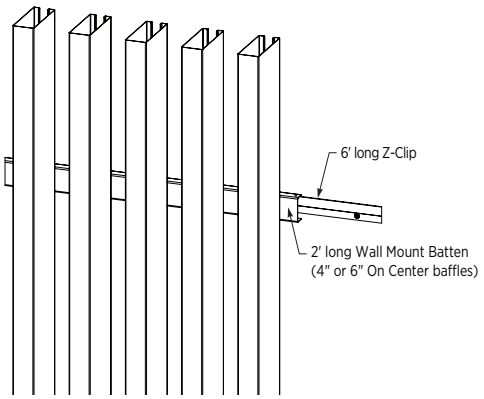
Grouping Bar Detail - Attachment to Grid



Wall Mount Detail - Z-Clip (6′ long)



Wall Mount Detail - Batten/Z-Clip Engagement



Notes:

1. Installation of baffles requires the use of a mechanical fastener to attach the Curvatura™ Attachment Clip to the Curvatura™ suspension system in all curved installations.
2. USG recommends the use of a 7/16″ self tapping pan head screw for attachment of the various clips to the baffle and to the grid system, as needed.
3. Recommended clip spacing is at 4′ on center for Baffles over 7′ long. Depending on Baffle length a third attachment clip is required.

ASSEMBLY

GENERAL BAFFLE & CLIP ASSEMBLY

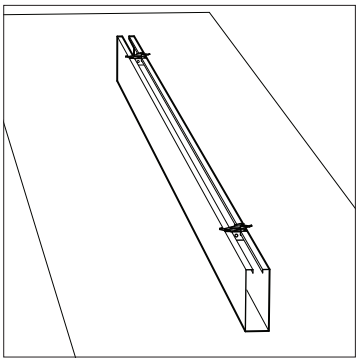
Assemble Baffle and Clips.

Paraline® Baffles are attached to the DX 15/16 grid systems using specific attachment clips. Safety gloves are recommended when handling the clips.

Generally, installation is simplest when a baffle is assembled on the ground and then attached to the grid system as a completed assembly.

A grid attachment clip should be slid into the open baffle end and then placed in the approximate location of the assembled grid structure.

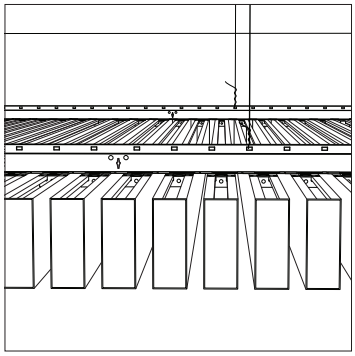
Note: A minimum of two clips are required to suspend each individual baffle from the grid system. Clips should be installed with 4′ on center spacing for Baffles over 7′ long as noted in the Clip Placement Detail - End Location and secured, as needed, as noted in Clip Placement Detail - Requirements.

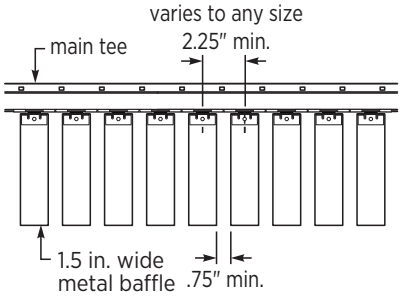


LAYOUT SPACING

Minimum centerline spacing for 1.5 in. wide baffles.

For 1.5 in. wide baffles, a minimum centerline spacing of approximately 2.25 in. applies to all baffle assemblies. This results in a spacing between adjacent baffles sides of approximately 0.75 in. Progressive installation and access to plenum should be considered when installing at min. distance between adjacent baffles.





STANDARD & CURVATURA™ GRID INSTALLATION

STEP 1

Grid system installation.

Refer to the project documents and the USG Acoustical System Installation Guide (WL576) or USG Curvatura™ 2x2 Ceiling System Installation Guide (IC461) for the installation of the grid suspension system.

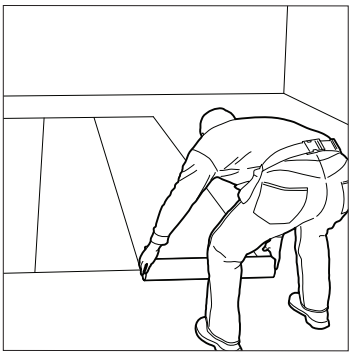
Install the ceiling as per WL576/IC461, ensuring that all recommendations for installation are followed and the finished ceiling is square and level.

STEP 2

Locate the panel layout per architectural drawings.

STEP 3

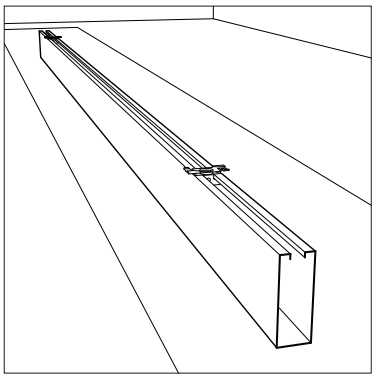
Protect the floor with a suitable tarp of construction paper, as needed.



STEP 4

Assemble the baffles.

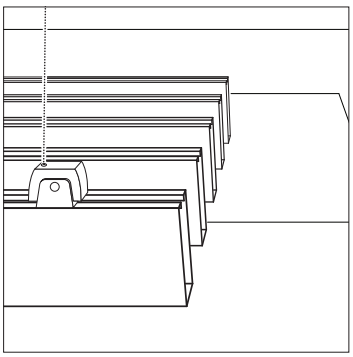
Assemble the baffles on the floor per the assembly instructions and the panel layout.



STEP 5

Determine baffle attachment points.

Determine and plumb up the baffle attachment points to the installed grid structure.



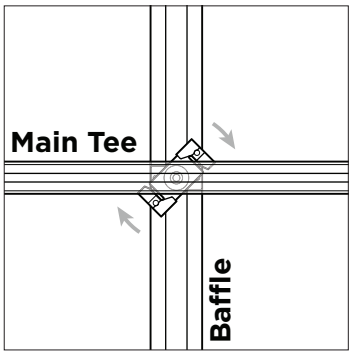
STANDARD & CURVATURA™ GRID INSTALLATION

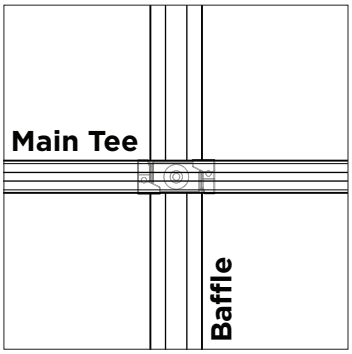
STEP 6

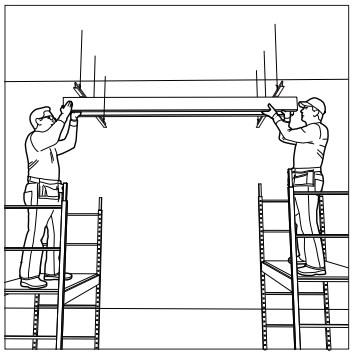
Attach the baffle to grid.

Rotate clip such that required grid member runs through diagonal openings.

Press clip to grid member and rotate until all four tabs of the clip securely snap into place over the grid flange. Repeat with remaining clips until the entire baffle assembly is supported by the grid structure.



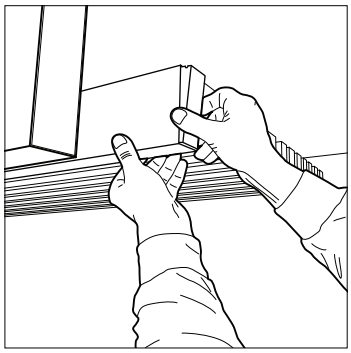




STEP 7

Insert end plugs.

Where required, insert the baffle end plug into the baffle end opening and press in until the end plug is flush with the baffle end.

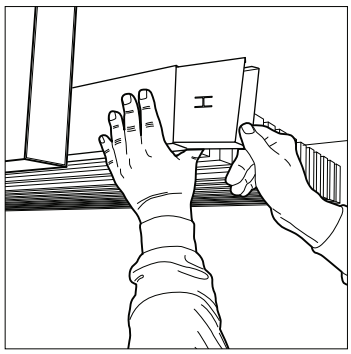


STEP 8

Insert splices.

Where required, insert the baffle splice into the baffle end opening and press in until approximately 3 in. of the baffle splice is

inserted into the suspended baffle and approximately 3 in. of the splice protrudes for installation into the subsequently installed baffle.

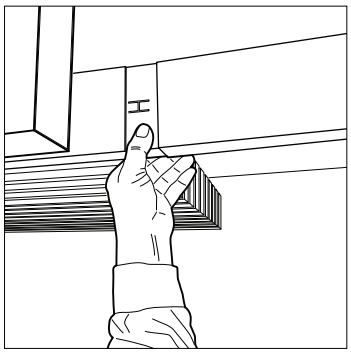


STEP 9

Install subsequent baffles.

Install the subsequent baffle onto the grid system, following Step 6. Press the new baffle onto the protruding splice until baffles sit flush together.

Note: baffles with spliced connections are not independently accessible. To create independent access areas, install baffles without splices or with end caps on both baffle ends.



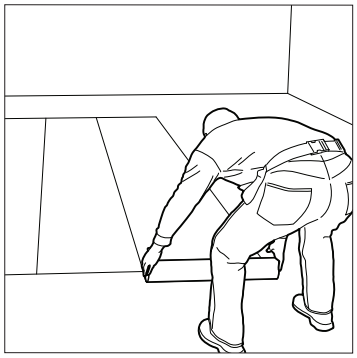
INDEPENDENTLY SUSPENDED SYSTEM INSTALLATION

STEP 1

Locate the panel layout per any architectural drawings.

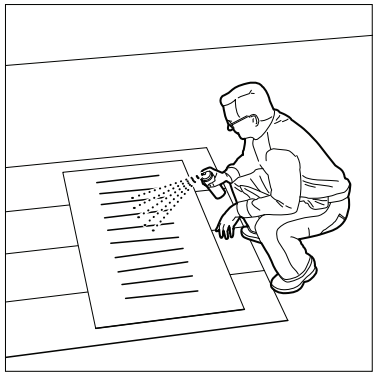
STEP 2

Protect the floor with a suitable tarp of construction paper, as needed.



STEP 3

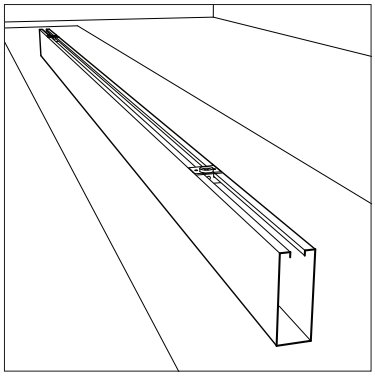
Black out hanger wire if desired.



STEP 4

Assemble the baffles.

Assemble the baffles on the floor per the assembly instructions and the panel layout.



STEP 5

Determine finished ceiling height.

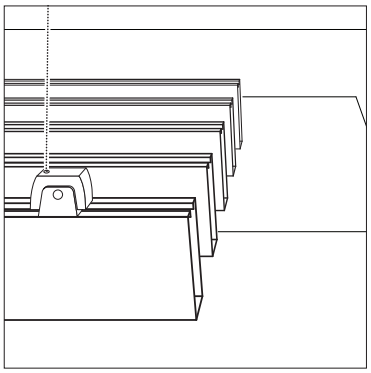
Note: for hanger wire, the hanger attachment point is 3-1/2″ in. above the baffle face for 4 in. baffles and 5-1/2″ in. above the baffle face for 6 in. baffles.

INDEPENDENTLY SUSPENDED SYSTEM INSTALLATION

STEP 6

Determine baffle attachment points.

Determine and plumb up the baffle attachment points to the ceiling deck.



STEP 7

Install suspension wire or cables to attachment points, as appropriate.

STEP 8

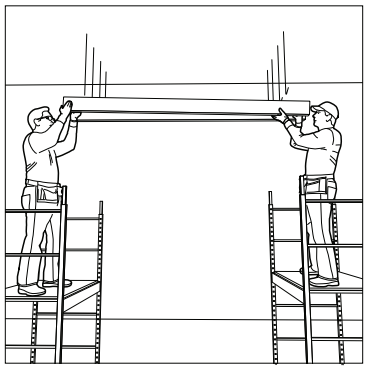
Locate baffle height and bend hangers.

STEP 9

Install baffles.

For hanger wire, bend hanger wire through holes in free attachment clip and tie per code. Repeat with remaining clips until the entire baffle assembly is supported by the structure above.

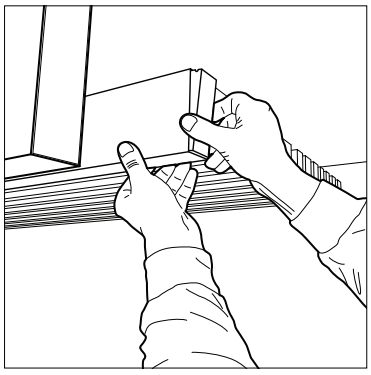
For cable, insert cable through holes of free attachment clip, level, and fasten with their preferred method. Repeat with remaining clips until the entire baffle assembly is supported by the structure above.



STEP 10

Insert end plugs.

Where required, insert the baffle end plug into the baffle end opening and press in until the end plug is flush with the baffle end.

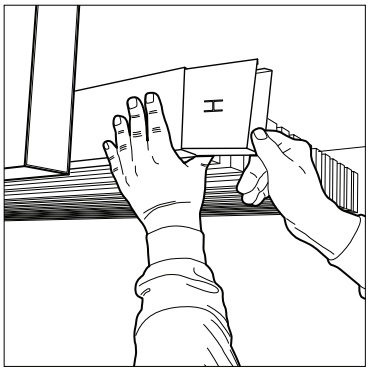


INDEPENDENTLY SUSPENDED SYSTEM INSTALLATION

STEP 11

Insert splices.

Where required, insert the baffle splice into the baffle end opening and press in until approximately 3 in. of the baffle splice is inserted into the suspended baffle and approximately 3 in. of the splice protrudes for installation into the subsequently installed baffle.

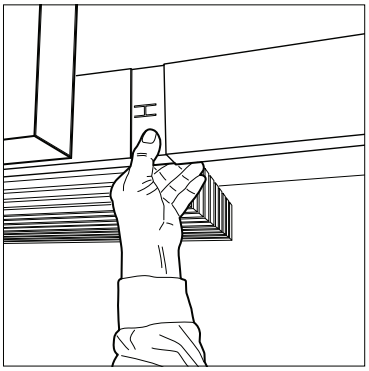


STEP 12

Install subsequent baffles.

Install the subsequent baffle onto the grid system, following Step 6. Press the new baffle onto the protruding splice until baffles sit flush together.

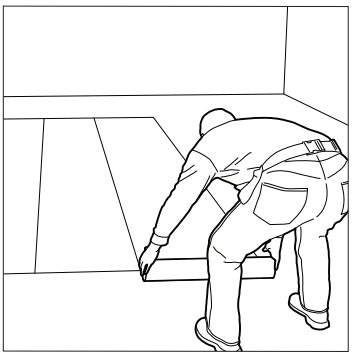
Note: baffles with spliced connections are not independently accessible. To create independent access areas, install baffles without splices or with end caps on both baffle ends.



GROUPING BAR INSTALLATION

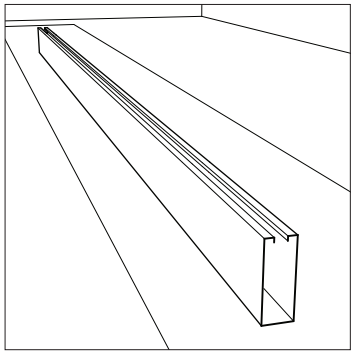
STEP 1 **Locate the panel layout per architectural drawings.**

STEP 2 **Protect the floor with a suitable tarp of construction paper, as needed.**



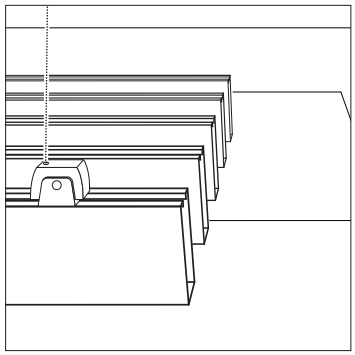
STEP 3 **Layout baffles.**

Determine where the baffles position within the ceiling system and the ceiling layout.



STEP 4 **Determine baffle attachment points.**

Determine and plumb up the baffle attachment points to determine the grid and grouping bar location.



STEP 5 **Grid system installation.**

Refer to the project documents and the USG Acoustical System Installation Guide (WL576) grid suspension system.

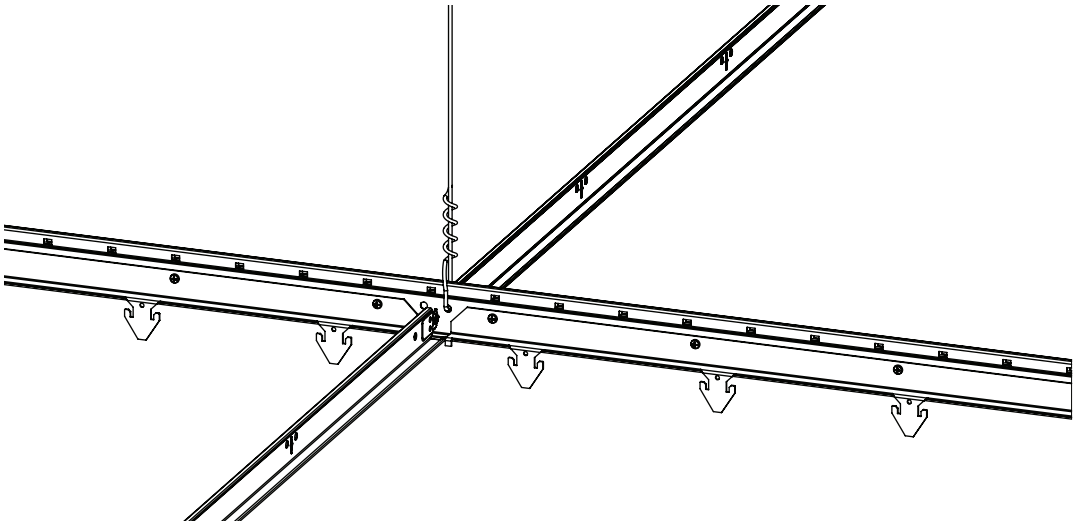
Install the ceiling as per WL576, ensuring that all recommendations for installation are followed and the finished ceiling is square and level.

GROUPING BAR INSTALLATION

STEP 6

Attach the Grouping Bar to Grid.

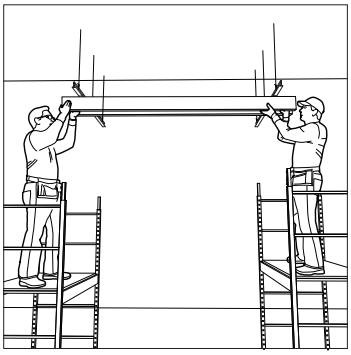
Use a self tapping metal screw to attach the Grouping Bar to the grid web at all locations where the grouping bar is pre-punched.

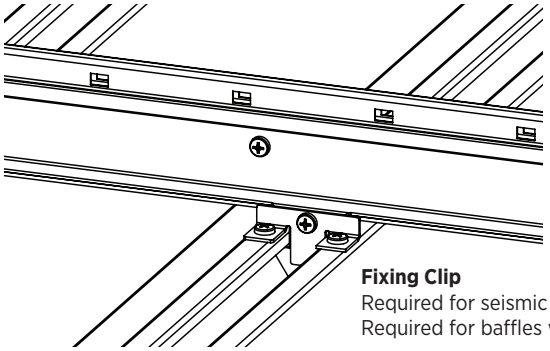


STEP 7

Snap baffle to Grouping Bar.

Push the baffle onto the arrowhead head of the Grouping Bar. Squeeze the baffle slightly and lower to engage the Grouping Bar. The Baffle Fixing Clip (optional) can be screw attached.



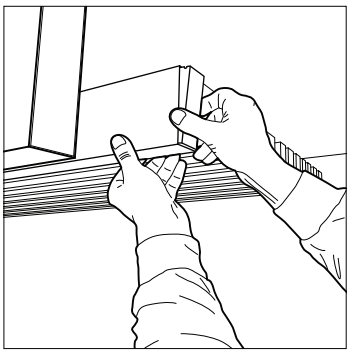


Fixing Clip
Required for seismic applications.
Required for baffles wider than 1-1/2".

STEP 8

Insert end plugs.

Where required, insert the baffle end plug into the baffle end opening and press in until the end plug is flush with the baffle end.

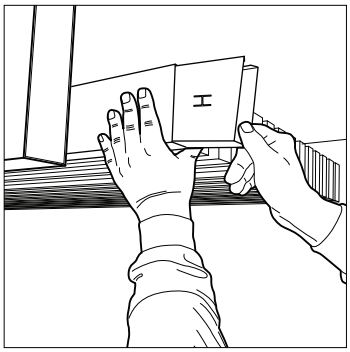


GROUPING BAR INSTALLATION

STEP 9

Insert splices.

Where required, insert the baffle splice into the baffle end opening and press in until approximately 3 in. of the baffle splice is inserted into the suspended baffle and approximately 3 in. of the splice protrudes for installation into the subsequently installed baffle.

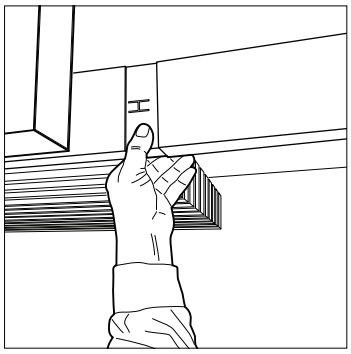


STEP 10

Install subsequent baffles.

Install the subsequent baffle onto the grid system. Press the new baffle onto the protruding splice until baffles sit flush together.

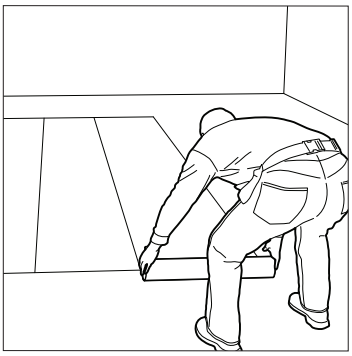
Note: baffles with spliced connections are not independently accessible. To create independent access areas, install baffles without splices or with end caps on both baffle ends.



WALL MOUNT INSTALLATION

STEP 1 **Locate the panel layout per architectural drawings.**

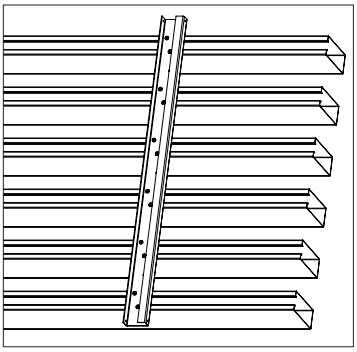
STEP 2 **Protect the floor with a suitable tarp of construction paper, as needed.**

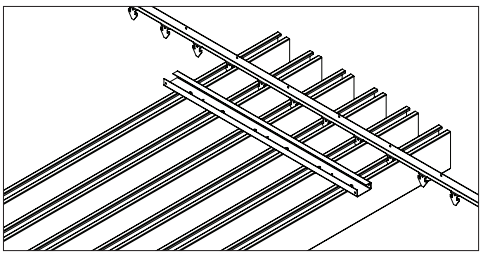


STEP 3 **Layout baffles.**

Determine spacing of baffles and attach the Wall Mount Batten with 7/16″ self tapping metal screws.

Hint: Use a Grouping Bar with the same spacing to help align and maintain consistent spacing. The Grouping Bar is for spacing only and should be removed prior to install.

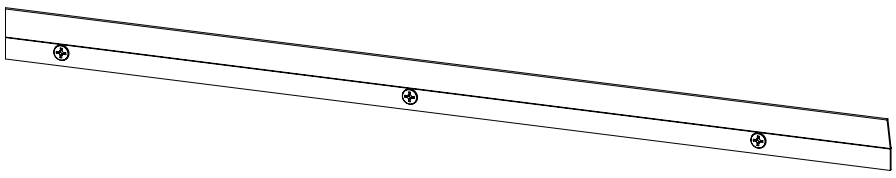




STEP 4 **Determine location of the baffles and install Z-Clip.**

Determine baffle mounting height. Locate the Z-Clip on the wall in accordance with the location of the Wall Mount Batten attached to the baffles. Screw the Z-Clip to the wall studs or blocking with the predefined holes spaced 8″ OC.

2 z clips recommend per baffle grouping, spacing per architectural layout (minimum separation is 50% total length)



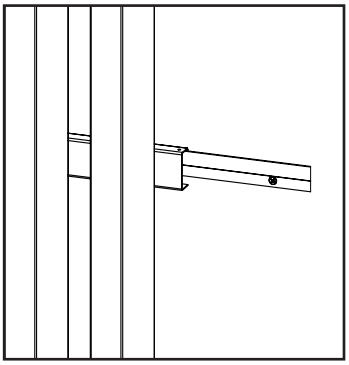
WALL MOUNT INSTALLATION

STEP 6

Attach Wall Mount Batten to Z-Clip

Lift baffles and engage the Wall Mount Batten to the Z-Clip. Slide the assembly to the desired position. Run self tapping metal screws through the Wall Mount Batten into the Z-Clip at the holes provided.

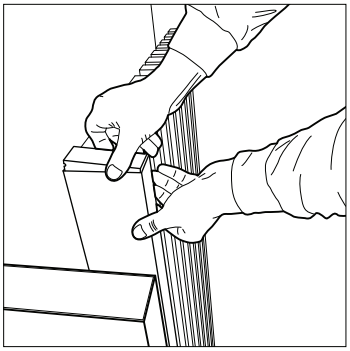
Where required, insert the Wall Mount Batten End Plug flush with the end of the batten. Use a 7/16" self tapping metal screw to secure the End Cap.



STEP 7

Insert end plugs.

Where required, insert the baffle end plug into the baffle end opening and push until flush with the end of the baffle.

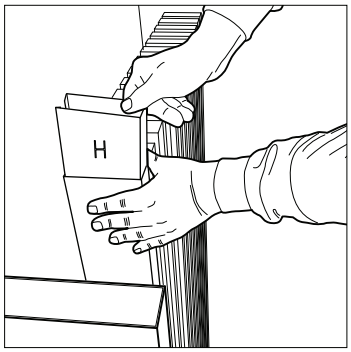


STEP 9

Insert splices.

Where required, insert the baffle splice into the baffle end opening and press in until approximately 3 in. of the baffle splice is

inserted into the suspended baffle and approximately 3 in. of the splice protrudes for installation into the subsequently installed baffle.

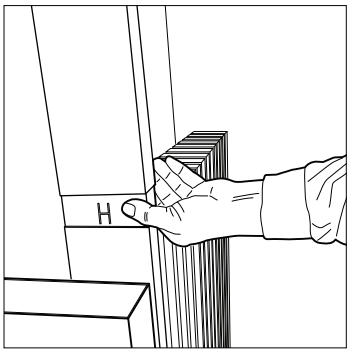


STEP 10

Install subsequent baffles.

Install the subsequent baffle onto the grid system. Press the new baffle onto the protruding splice until baffles sit flush together.

Note: baffles with spliced connections are not independently accessible. To create independent access areas, install baffles without splices or with end caps on both baffle ends.



PRODUCT IDENTIFICATION SYSTEM

PRODUCT IDENTIFICATION

USG has a descriptive nomenclature for identifying Paraline® Baffles

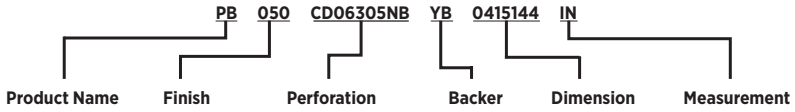
Coding for this system consists of the following six components

Attribute	Classification	Example A	Example B
Product Name	PB (Paraline® Baffles)	PB	PB
Finish	Color Code	050	3708
Perforation	No or Perforation Code	CD06305NB	N
Backer	No or Yes with Color (Black or White)	YB	N
Dimension	H x W x L (given in inches or millimeters)	0415144	061572
Measurement	Inches or Millimeters	IN	IN

EXAMPLE A

PB050CD06305NBYB0415144IN

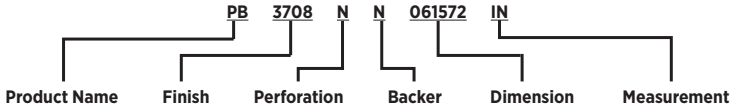
A 4 in. x 1.5 in. x 144 in. Paraline Baffle in Flat White with CD06305NB perforation and black Acoustibond™ backer



EXAMPLE B

PB3708NN061572IN

A 6 in. x 1.5 in. x 72 in. Paraline Baffle in Matte White with no perforations or backer



Notice Regarding Availability:
Most USG Paraline® Baffle configurations are readily available in all markets, but there can be exceptions. Consult your local sales representative for details and questions about custom configurations.

NOTES

Technical Service
800 USG.4YOU

Website
usg.com

Samples/Literature E-mail
samplit@usg.com
866 528.7089

Customer Service
800 950.3839

PRODUCT INFORMATION
Data Page: IC700
System Guide: IC701
Field Cutting Instructions: IC718
See usg.com or cgcinc.com for the most up-to-date product information.

INSTALLATION
Must be installed in compliance with ASTM C636, ASTM E580, CISCA and standard industry practices, within all applicable code requirements. Alternative assemblies and installation methods may be utilized when approved by the authority having jurisdiction. USG recommends checking with the authority having jurisdiction prior to designing and installing a suspended ceiling system.

CODE COMPLIANCE
The information presented is correct to the best of our knowledge at the date of issuance. Because codes continue to evolve, check with a local official prior to designing and installing a ceiling system. Other restrictions and exemptions may apply.

NOTICE
We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

COLOR VARIATIONS
Some commercially acceptable color variation may occur between lots and between different size canopies of the same color.

SEISMIC APPLICATIONS
Refer to Seismic Technical Guide, Specialty Decorative Ceilings (SC2494) for more information on architectural components.

SAFETY FIRST!
Follow good safety/industrial hygiene practices during installation. Wear appropriate personal protective equipment. Read SDS and literature before specification and installation.

WARRANTY
One (1) year limited warranty. See USG Ceilings Commercial Application Warranty (SC2102) for additional details. For Canadian product needs, please contact your local sales representative.

TRADEMARK
The trademarks USG, ACOUSTIBOND, COMPÄSSO, CURVATURA, DX, GRIDWARE, PARALINE, ZXLA, IT'S YOUR WORLD. BUILD IT., the USG logo, the design elements and colors, and related marks are trademarks of USG Corporation or its affiliates.

IC702/rev 4-23

Manufactured by
USG Interiors, LLC
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Chicago, IL 60661

USG CGC