Primacoustic®

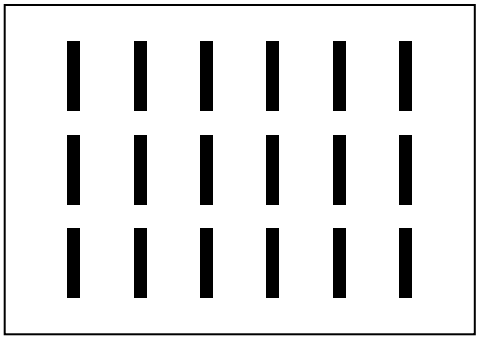
ECOSCAPES

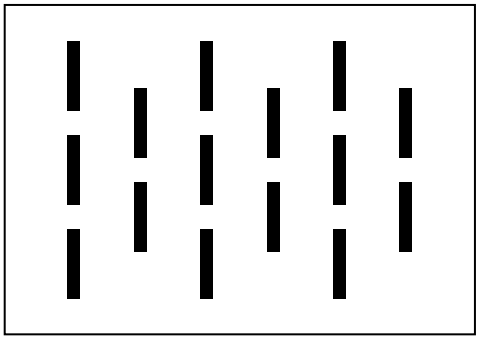
Dimensional Baffles Installation Manual

Installation Tips

Density

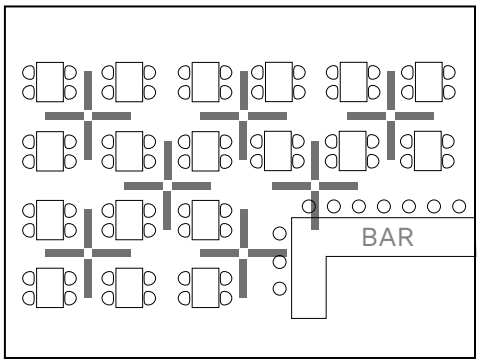
The number of baffles in a given area will determine the rate of sound absorption. This can vary depending on room size and noise levels. For optimum acoustic performance, 12" (305mm) between the face of each baffle is recommended.

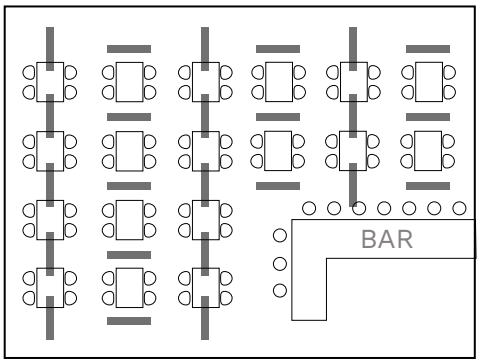




Pattern

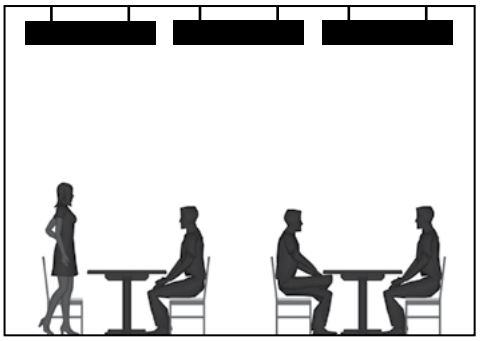
Spread evenly for general sound control, or alternate baffle direction to absorb sound waves moving in multiple directions. Using a grid-like 'tic-tac-toe' layout will improve the performance as more random energy will be absorbed in the room. Notice that the baffles are suspended in both X and Y axes so that noise will be captured in both directions.

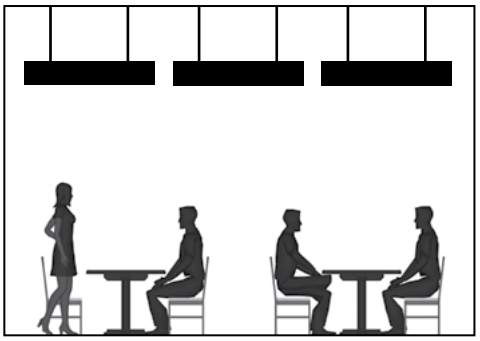




Suspension Height

Leave a minimum 3" (76mm) of air space between the baffle and ceiling, up to a maximum of 24" (610cm).





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EcoScapes Blades are versatile enough to be installed on most common ceiling types. The installation method and hardware required will vary depending on your ceiling type and the method you use to suspend them.

Suspending from a Standard Ceiling with Cable


Eye Bolt
4 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


SlipNot Cable
2 per baffle


Butterfly Anchors
2 per baffle
Sold separately

Suspending directly from a Standard Ceiling


Eye Bolt
2 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


J-Hook
2 per baffle


Butterfly Anchors
2 per baffle
Sold separately

Suspending with Looped Cable


Eye Bolt
2 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


SlipNot Cable
2 per baffle


Loop Attachment
2 per baffle

Suspending from Unistrut with Cable


Eye Bolt
4 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


SlipNot Cable
2 per baffle


UniStrut Spring Nut
2 per baffle

Suspending directly from Unistrut


Eye Bolt
2 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


J-Hook
2 per baffle


UniStrut Spring Nut
2 per baffle

Suspending from Unistrut with Threaded Rod


Bolt
2 per baffle


Washer
4 per baffle


¼", 20 TPI Coupling Nut
2 per baffle


¼", 20 Threaded Rod
2 per baffle


UniStrut Spring Nut
2 per baffle

Suspending from T-Bar with Cable


Eye Bolt
2 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


SlipNot Cable
2 per baffle


T-Bar Clip
2 per baffle

Suspending directly from T-Bar


Eye Bolt
2 per baffle


Washer
4 per baffle


Wing Nut
2 per baffle


J-Hook
2 per baffle


¼", 20 TPI Coupling Nut
2 per baffle

T-Bar Clip
2 per baffle

Suspending from T-Bar with Threaded Rod

Bolt
2 per baffle

Washer
4 per baffle

¼", 20 TPI Coupling Nut
4 per baffle

¼", 20 Threaded Rod
2 per baffle

T-Bar Clip
2 per baffle

Tools Required

Stepladder/Scaffolding, Measuring Tape, Bubble Level, Drill, Screwdriver, Hammer, Wire Clippers

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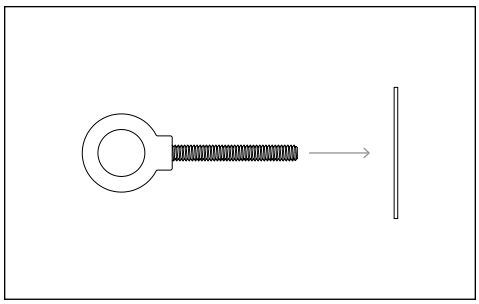
1. Preparing the Baffles

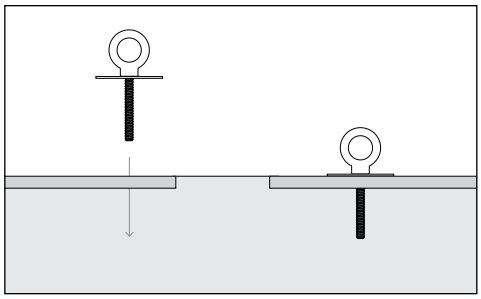
1. Attach the Baffle Hardware

Depending on your suspension method, choose one of the following options:

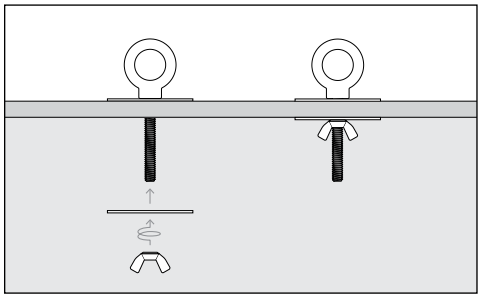
a. Suspending with SlipNot Cable:



Take one of the Washers and insert an Eye Bolt through the hole in the centre.



Take the Eye Bolt and Washer, and slot them into the channel in the centre of the Baffle.

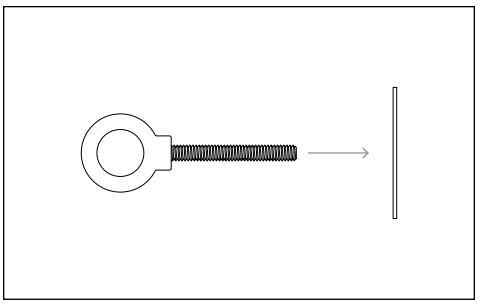


Place another Washer onto the Bolt, then twist on one of the Wing Nuts.

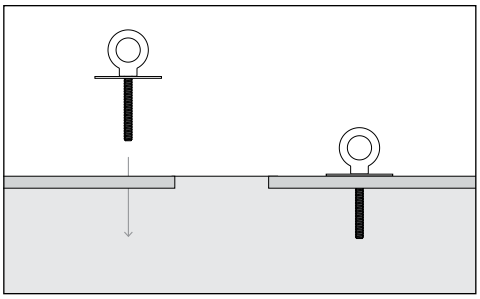
Repeat for the other side of the Baffle.

The position of the attachments can be adjusted by loosening the Wing Nut and sliding the attachment along the channel.

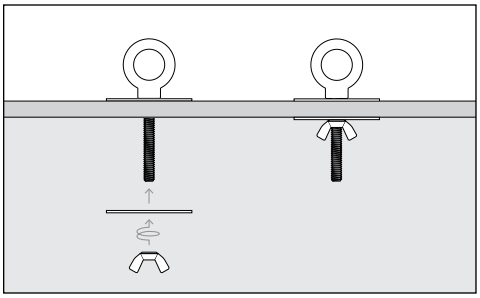
b. Suspending directly



Take one of the Washers and insert an Eye Bolt through the hole in the centre.



Take the Eye Bolt and Washer, and slot them into the channel in the centre of the Baffle.

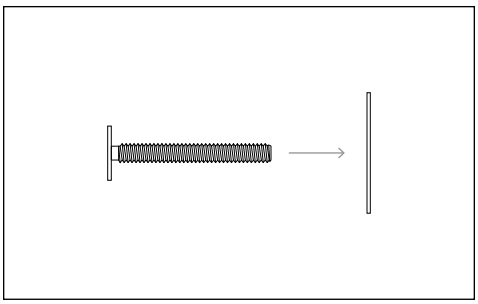


Place another Washer onto the Bolt, then twist on one of the Wing Nuts.

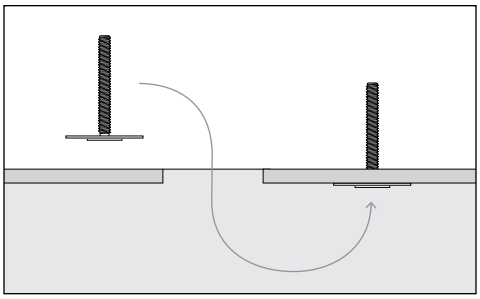
Repeat for the other side of the Baffle.

The position of the attachments can be adjusted by loosening the Wing Nut and sliding the attachment along the channel.

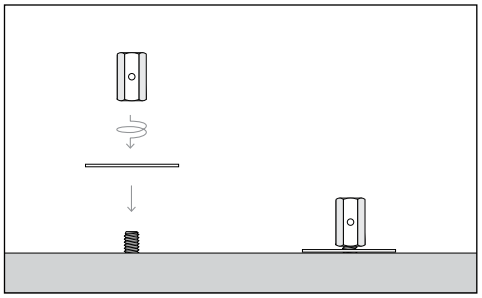
c. Suspending with T-Bar:



Take one of the Washers and insert a Bolt through the hole in the centre.



Take the bolt and Washer, and slot them up through the channel in the centre of the Baffle.



Place another Washer onto the Bolt. Then twist on one of the Coupling Nuts (don't overtighten the Coupling Nut - the bolt should still be able to rotate freely).

The position of the attachment can be adjusted by sliding the attachment along the channel.

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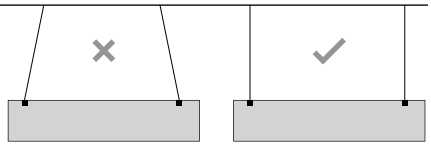
2A. Suspending the Baffles from a Standard Ceiling



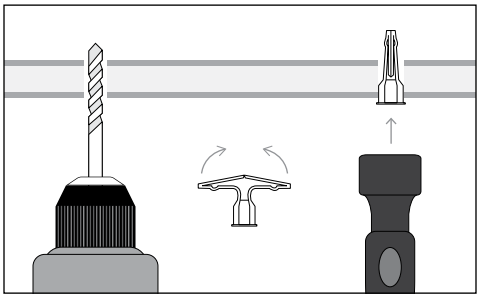
1. Mark the Ceiling

Measure and mark your ceiling for suspension point locations. Pay close attention to where you want the Baffle to be located. Each anchor location should be spaced to mirror the distance between the Baffle attachments (this can be refined later once the cables are attached), so the SlipNot Cables hang straight, down, creating a dead hang.

2. Determine the Ceiling Type

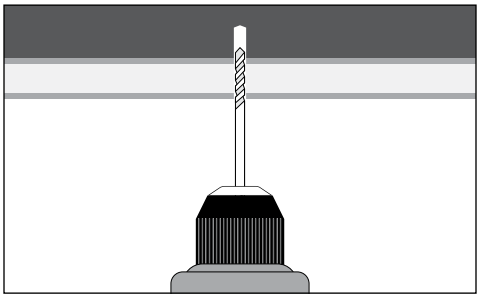
The next steps will vary, depending on the type of ceiling you are suspending your Baffles from. Using a hammer, tap a nail into each ceiling anchor location to determine whether your ceiling has a solid or hollow backing.

a. Hollow-backed Ceiling:



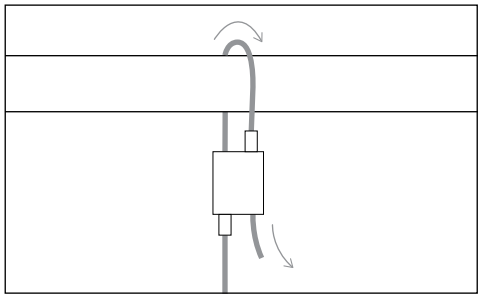
If the backing above your ceiling is hollow, use a 5/16" (7.9mm) drill bit to make a hole for a Butterfly Anchor. Fold the Butterfly Anchor and hammer it into place. Make sure you choose an anchor with sufficient weight capacity for your Baffle. Go to step 3

b. Solid-backed Ceiling:



If one or more of your ceiling anchor locations are on a solid backing, such as a joist, no Butterfly Anchors are required. Simply use a 1/8" (3.2mm) drill bit to make a pilot hole. Go to step 3

c. Looped:



You also have the option to loop the SlipNot Cable over an element such as a pipe, joist, or beam. Before doing so, please check the maximum weight the element you are suspending the panel can hold.

Thread the unterminated end of the SlipNot Cable through one hole in the Loop Attachment and pull enough cable through to loop around your element.

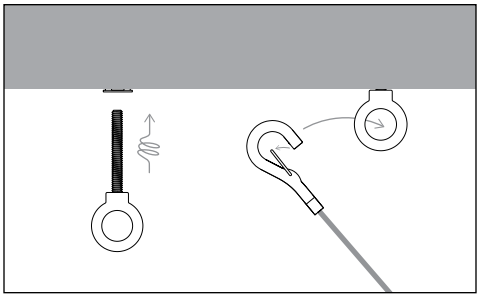
Loop the SlipNot Cable loosely over the element, then thread it back though the second hole in the Loop Attachment.

Finally, pull the SlipNot Cable tight around the element. Then repeat for the other SlipNot Cable.

3. Attach the Ceiling Hardware

Then, depending on your suspension method, choose one of the following options:

a. Suspending with Cable:

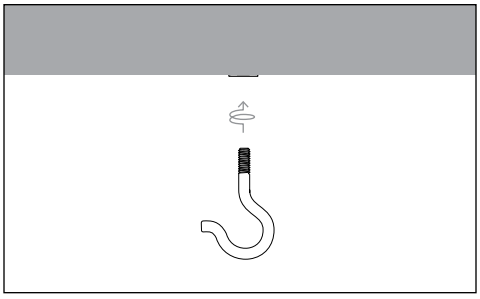


Screw an Eye Bolt into each anchor/hole.

Take one of the SlipNot Cables, and clip the carabiner attachment (the non-adjustable side) onto the Eye Bolt.

Repeat for the other anchor point.

b. Suspending Directly:

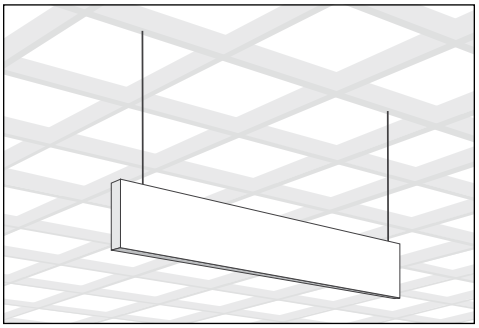


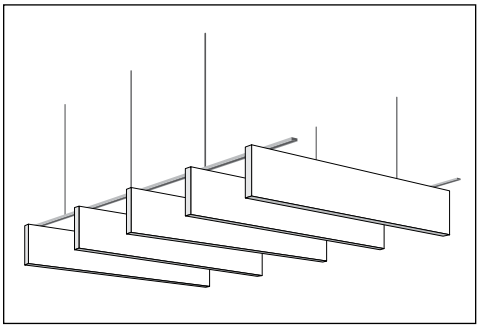
Twist a J-Hook into each anchor/hole.

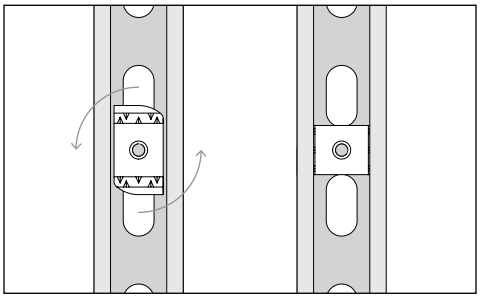
2B. Suspending the Baffles from UniStrut

Arrays

As an alternative to suspending the baffles directly from a pre-existing Unistrut system, you can also use Unistrut to create large baffle arrays. The array can be built on the ground, and then suspended in one go, requiring far fewer mount points on the ceiling. Be sure to check the weight limits for your ceiling before beginning.







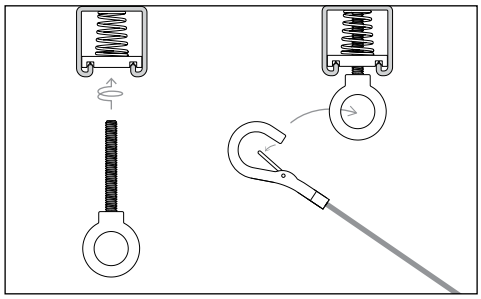
1. Attach the Spring Nuts

Take a Spring Nut and press it (spring first) into the channel of your UniStrut. If the UniStrut is perforated, try to choose an area between the holes. Twist the Spring Nut counter-clockwise 90° until it sits securely in the UniStrut rail. Repeat for the other Spring Nut, making sure the two nuts are parallel to one another.

2. Attach the UniStrut Hardware

Then, depending on your suspension method, choose one of the following options:

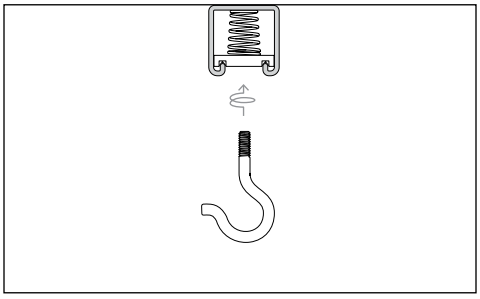
a. Suspending with Cable



Twist an Eye Bolt into each of the Spring Nuts until secure.

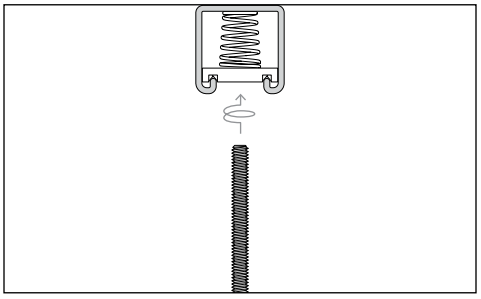
Take one of the SlipNot Cables, and clip the carabiner attachment onto the Eye Nut. Repeat for the other SlipNot Cable.

b. Suspending Directly



Twist a J-Hook into each of the Spring Nuts until secure.

c. Suspending with Threaded Rod

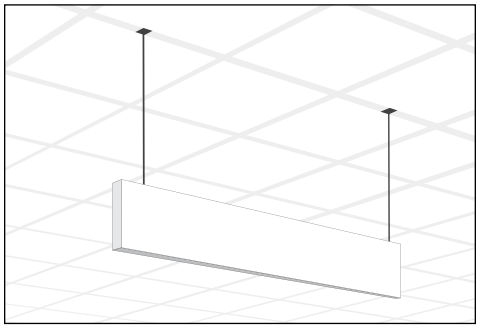


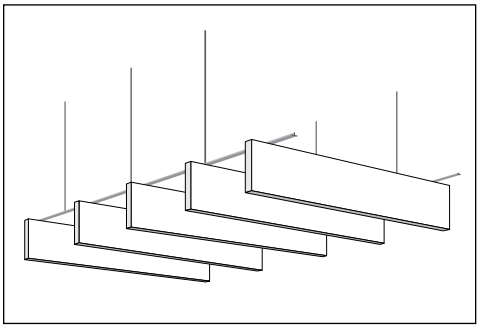
Screw the Threaded Rods into each Spring Nut until secure.

2C. Suspending the Baffles from a T-Bar Ceiling

Arrays

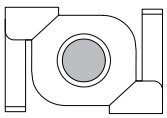
As an alternative to suspending the baffles directly from a pre-existing T-Bar ceiling, you can also use T-Bar to create large baffle arrays. The array can be built on the ground, and then suspended in one go, requiring far fewer mount points on the ceiling. Be sure to check the weight limits for your ceiling before beginning.



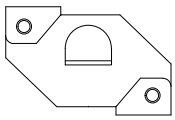


1. Attach the T-Bar Clips

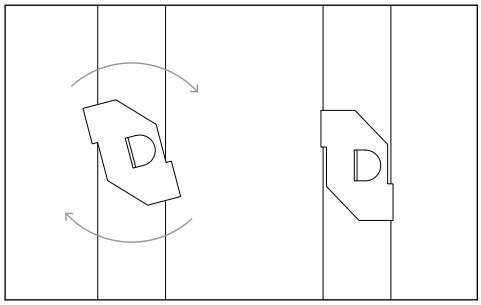
The specific design of T-Bar Clip included with your hardware will vary depending on your install method, but both types can be clipped onto the T-Bar grid in the same way.



Clip with Bolt



Clip with Loop

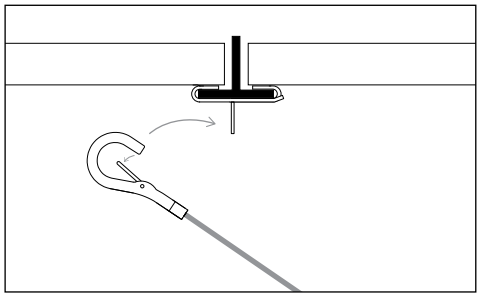


Stand below the first mount point on a stable surface within easy reach of the ceiling struts. Press the first T-Bar Clip against the strut at a slight anti-clockwise angle (10 o'clock). Gradually twist the T-Bar Clip clockwise onto the strut (12 o'clock). This shouldn't require excess pressure and can be done by hand. You may need to briefly push up the surrounding ceiling tiles to allow space for the T-Bar Clip.

2. Attach the T-Bar Hardware

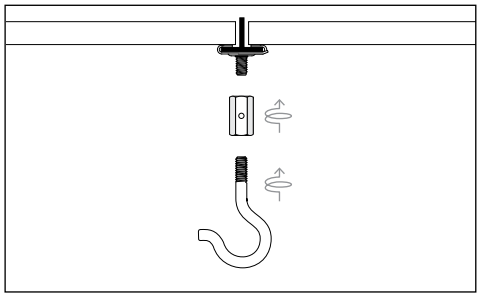
Then, depending on your suspension method, choose one of the following options:

a. Suspending with SlipNot Cable



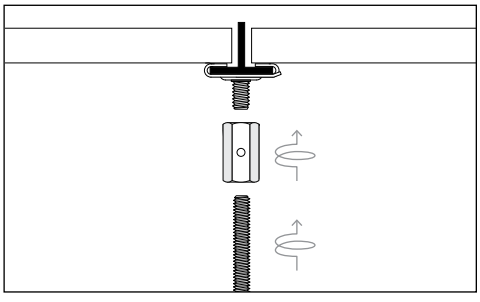
Take one of the SlipNot Cables, and clip the carabiner attachment through the hole on the T-Bar Clip. Repeat for the other cable.

b. Suspending Directly



Twist a Coupling Nut onto the bolt at the bottom of each T-Bar Clip, followed by a J-Hook.

c. Suspending with Threaded Rod



Twist a Coupling Nut onto the bolt at the bottom of each T-Bar Clip, followed by a Threaded Rod.

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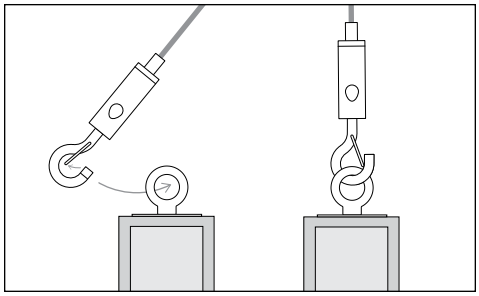
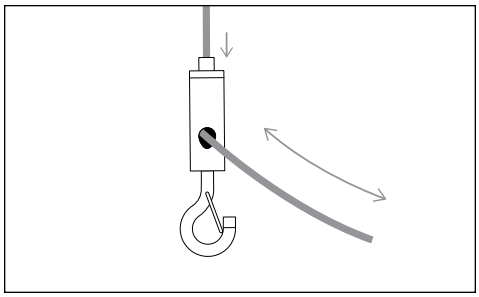
3A. Suspending the Baffles with SlipNot Cable



1. Attach the Baffle

Lift the Baffle until it is level with the hanging ends of the SlipNot Cables, parallel with the ceiling. Clip the carabiner end of the SlipNot onto the Eye Bolt.

Attach both cables before letting go of the panel.

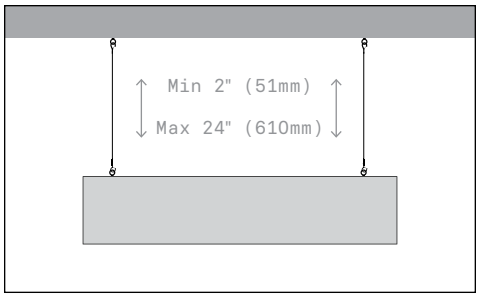


2. Adjust

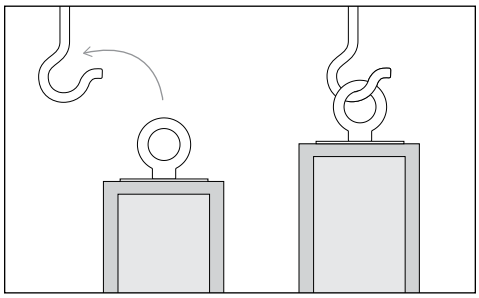
With the Baffle suspended, you can fine-tune the lengths of the SlipNot Cable by pressing the centre pin of the carabiner to release the cable, and pulling it out through the hole in the side. Level the Baffle and set the spacing between the ceiling and the Baffle. For the best acoustic performance, maintain a minimum spacing of 2" (51mm).

Trim any protruding cable with the wire clippers.

You can also fine-tune the horizontal position of the Baffle attachments at this stage, by loosening the Eye Nuts and sliding them along the channels until the SlipNot Cable hangs perfectly vertically.



3B. Suspending the Baffles Directly from the Ceiling



1. Attach the Baffle

Lift the Baffle until it is level with the J-Hooks, parallel with the ceiling. Hook the Eye Bolts on to the J-Hooks.

Attach both sides before letting go of the panel.

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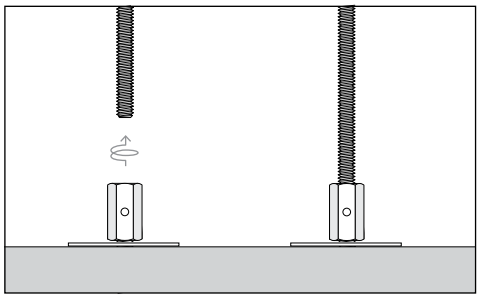
3C. Suspending the Baffles with Threaded Rod



1. Attach the Baffle

Lift the Baffle until it is level with the Threaded Rod, parallel with the ceiling.

Rotate the Coupling Nut to screw it onto the Threaded Rod. Attach both Coupling Nuts before letting go of the panel.

If necessary, adjust the position of the Bolts until the Threaded Rods are perfectly vertical.

Limited Warranty

Please inspect products immediately after receiving your purchase. Primacoustic acoustic products are guaranteed to be free of manufacturing defects for a period of 3 years after purchase. In the unlikely event that a defect is uncovered, please call 604-942-1001 to obtain a RA number (Return Authorization number) from Primacoustic before the 3 year warranty period expires. Once you have obtained a RA number you must return the product, freight prepaid, within fifteen (15) days after the date the RA number is issued. Please return the product in the original packaging (or another, affording an equal degree of protection) with all of the following: (1) RA number clearly marked on the returned package; (2) a receipt or bill of sale showing proof of purchase from an authorized seller; plus (3) a letter describing the defect. Please include your name, address, telephone number and the applicable RA number. You are solely responsible for all shipping and insurance costs for returning the product to Primacoustic, and you will not be reimbursed or compensated for any loss or damage incurred during return shipping. Primacoustic will at its sole discretion repair or replace the product. Should the product no longer be available, Primacoustic reserves the right to exchange this with a product of similar performance and value. Due to different dye lots, Primacoustic cannot guarantee exact color match. This Warranty shall solely extend to the original owner and is limited to manufacturing defects and excludes damage due to improper installation, freight handling, wear and tear, abuse, misuse, misapplication, color fading or deterioration due to prolonged exposure to ultra violet light, smoke, humidity or other environmental factors. It is understood that the use and suitability of the product is entirely the responsibility of the buyer or specifying engineer and as such, these parties agree to hold Primacoustic, or its associated company, and/or officers, harmless from any responsibility whatsoever other than what is clearly outlined in this warranty.

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