



BREEZ IOM

Installation & Operation Manual

April 29, 2026



Introducing BREEZ

BREEZ is a high induction perforated duct diffuser designed for specific heating, cooling and ventilation needs. Advanced research and development led to a complete software allowing us to tailor a solution for virtually any application.

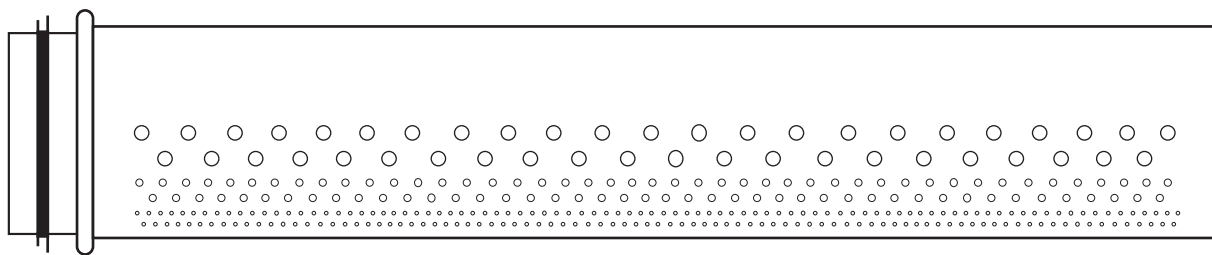
Perforation patterns are carefully selected for your application with our software, then precisely cut into the metal prior to rolling the duct.

The resulting high induction air diffusion ensures homogeneity of air temperature and humidity in the room, thus improving system performance and occupants comfort.

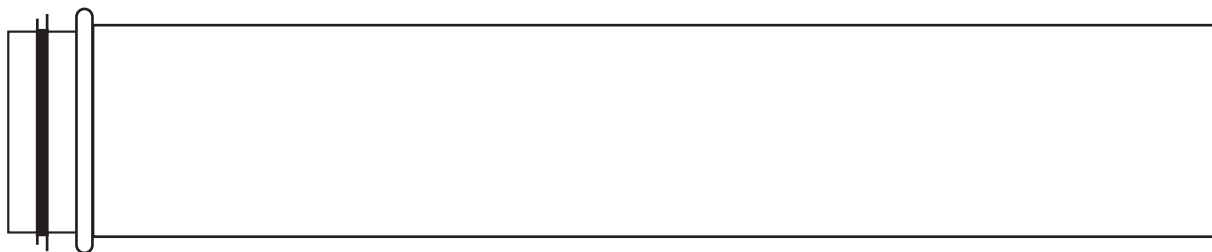
BREEZ Perforated Duct Diffusers are constructed in diameters ranging from 8 inches (200 mm) up to 60 inches (1500 mm). Duct sections are assembled using pre-installed sleeves with integrated EPDM gasket to ensure a proper seal and circular integrity of the duct.

The overall sleek look of the continuous metal duct, combined with a high quality powder coat, provides great architectural appeal and endless design possibilities.

Matching passive duct sections without holes and multiple fittings are also available in order to ensure the uniformity of the duct network.



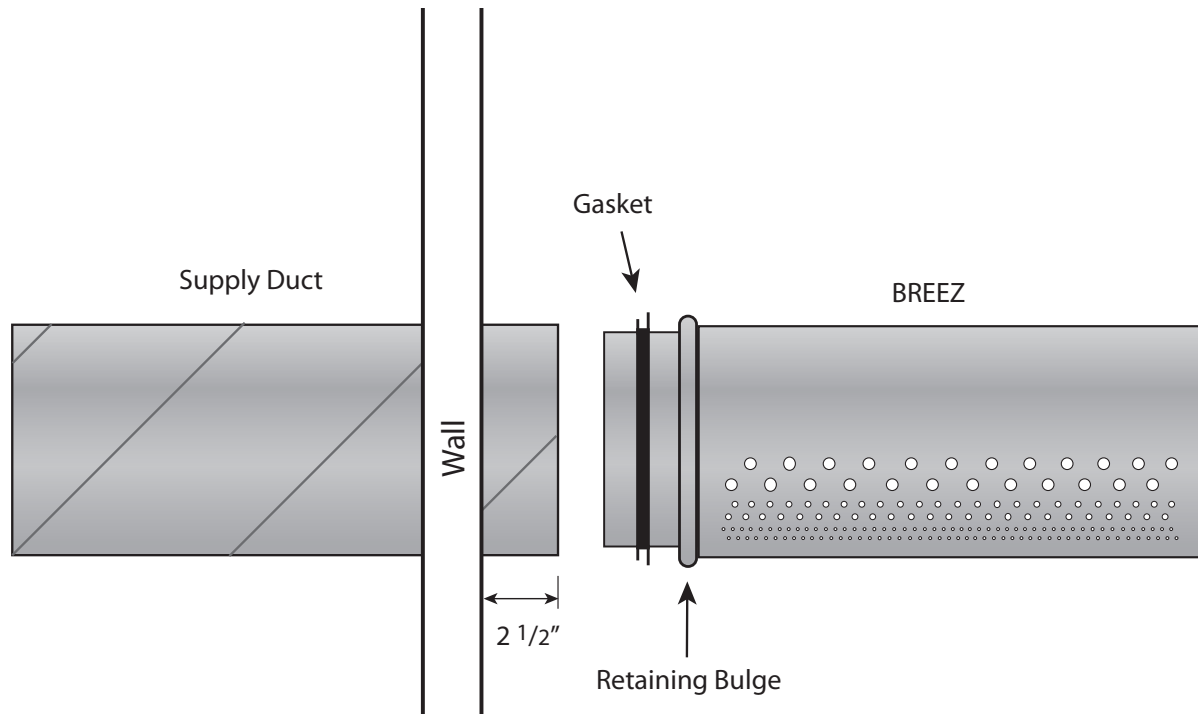
BREEZ - Perforated Duct Diffuser



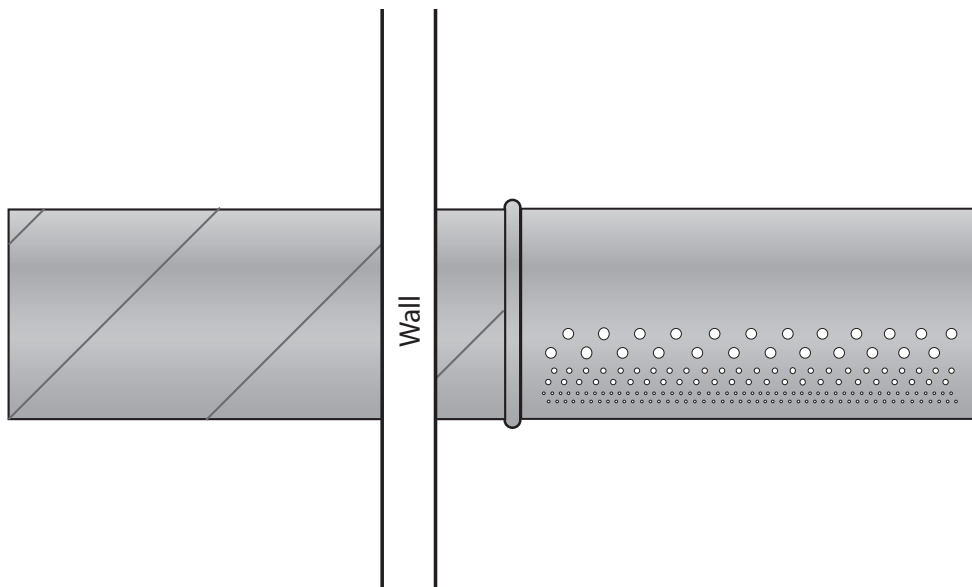
BREEZ-P - Passive Duct Section

Connecting to the Supply Duct

When connecting BREEZ Perforated Duct Diffusers to a supply duct coming out of the wall, it is important that the length of duct coming out of the wall is $2\frac{1}{2}$ " long.

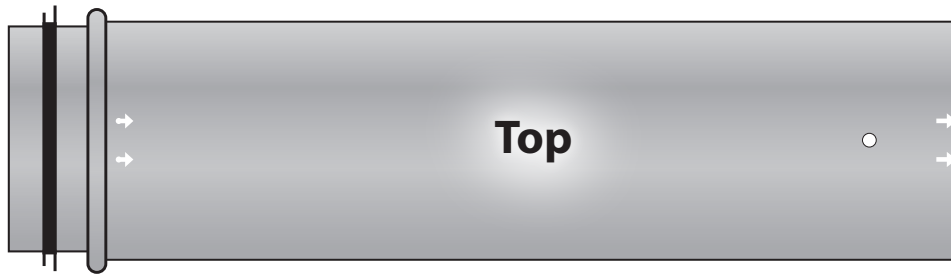


Make sure that the male part of the BREEZ is fully inserted into the supply duct, meaning that the gasket is inside the duct and that the retaining bulge rests on the supply duct's edge.



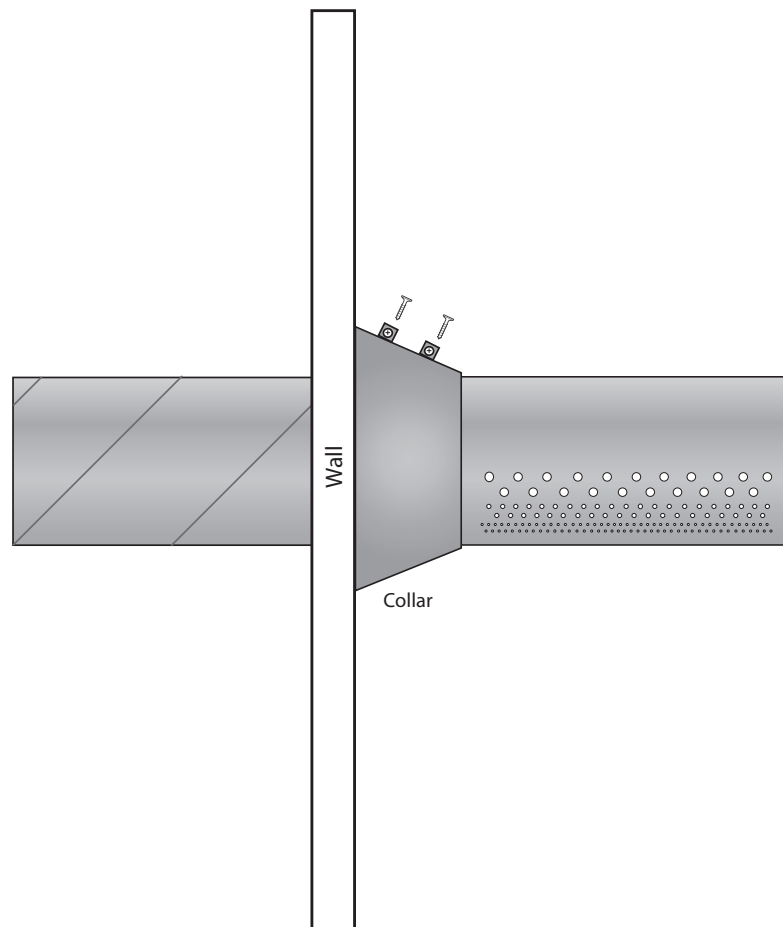
It is important to make sure that the arrows and seam lock lines are facing towards the top. This alignment of the first section must be accurate as it will affect the rest of the length.

Note: if you are using a Threaded Rod, Ceiling Rail or Suspended Rail mounting system, the top hole used for attachment bolt will automatically be facing the top and proper alignment will therefore be automatic.



Open the inlet collar and wrap it around the duct, forming a cone with the large end resting on the wall.

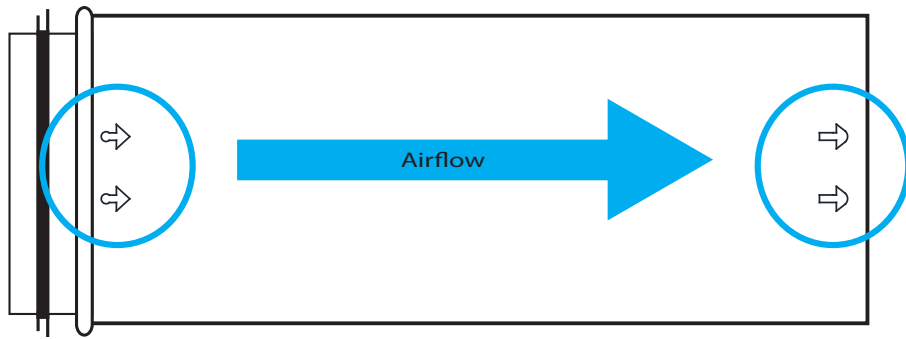
Close the collar with the two bolts and nuts provided.



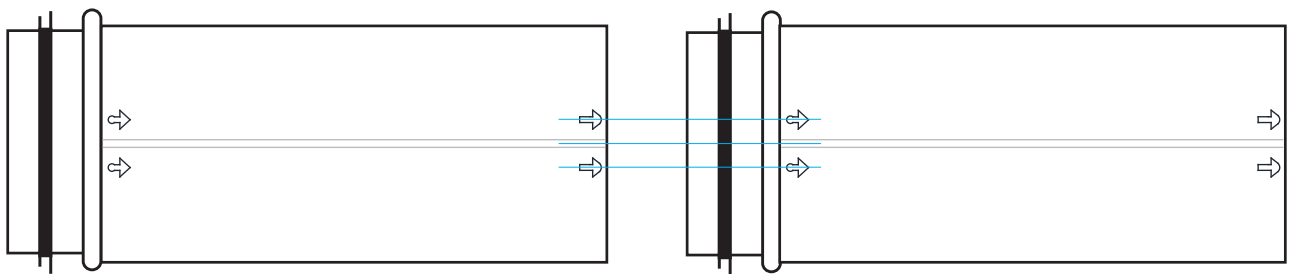
Alignment and Connection of Duct Sections

BREEZ sections are shipped with a pre-installed sleeve creating a male connector on the inlet side, and female on the outlet side. The same applies to all fittings.

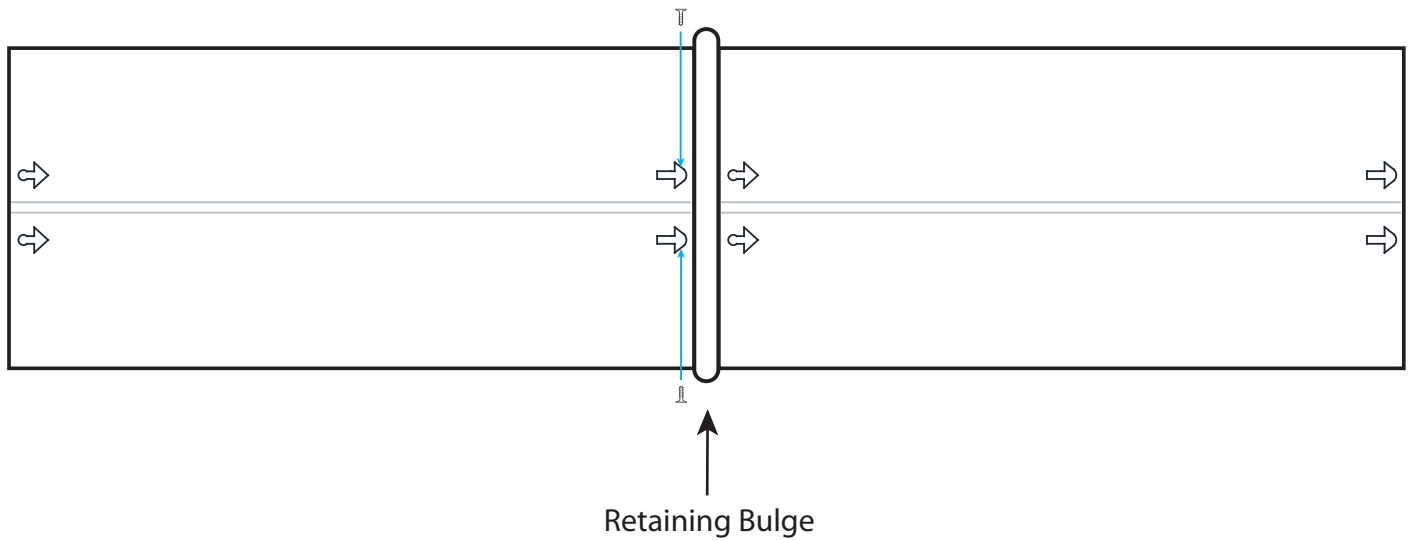
BREEZ sections have arrows on top showing the direction of the airflow. It is very important to always respect the direction of the airflow when installing new sections as hole patterns may not always be symmetrical.



1. When connecting BREEZ duct sections, make sure that the arrows and seam lock lines are properly aligned, therefore ensuring a perfect alignment of diffusion patterns.



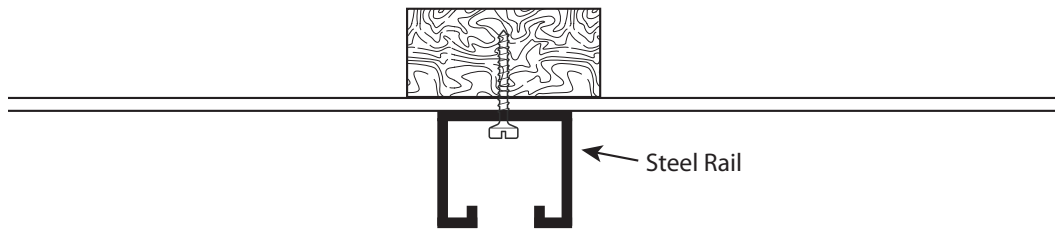
2. Insert the male part of the second duct section into the first duct section. Make sure that the gasket is fully in and that the duct's edge is resting on the sleeve's retaining bulge.



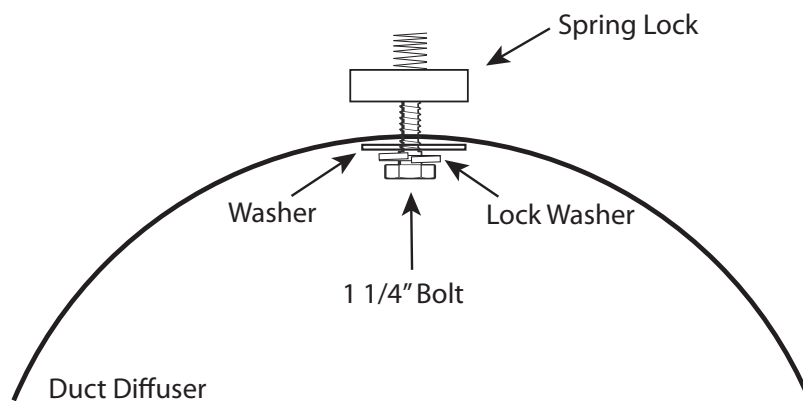
3. Secure both duct sections using two metal screws through the duct arrows and sleeve holes. The metal screws are larger than the sleeve holes on purpose, in order to ensure an air tight installation.

Installation of the Duct Diffuser Using Ceiling Rails

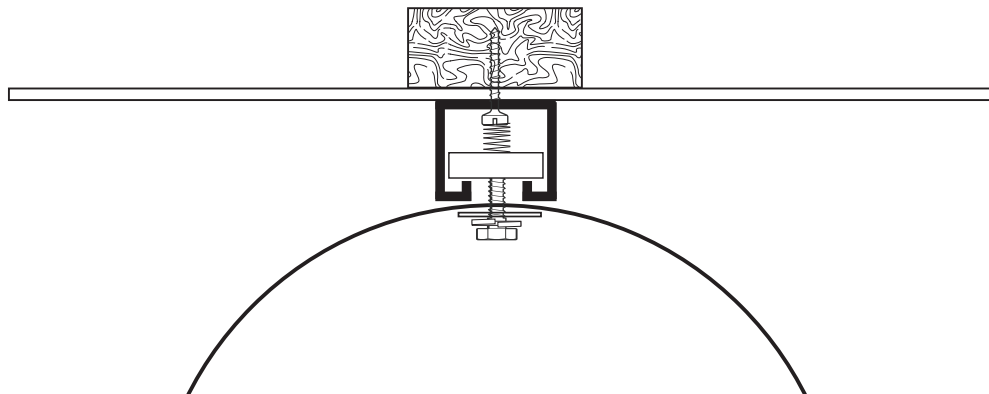
1. Secure DRAILC steel rails to the ceiling using screws or anchors suitable for the ceiling type.



2. Attach the Spring Lock to the Duct Diffuser using a 1 1/4" Bolt through the 3/8" hole on top of the Duct Diffuser. From the inside, tighten the Bolt using a Washer and Lock Washer as illustrated below. Tighten enough to secure the assembly, but do not fully tighten. Some loose is required for the duct to be secured to the rail.

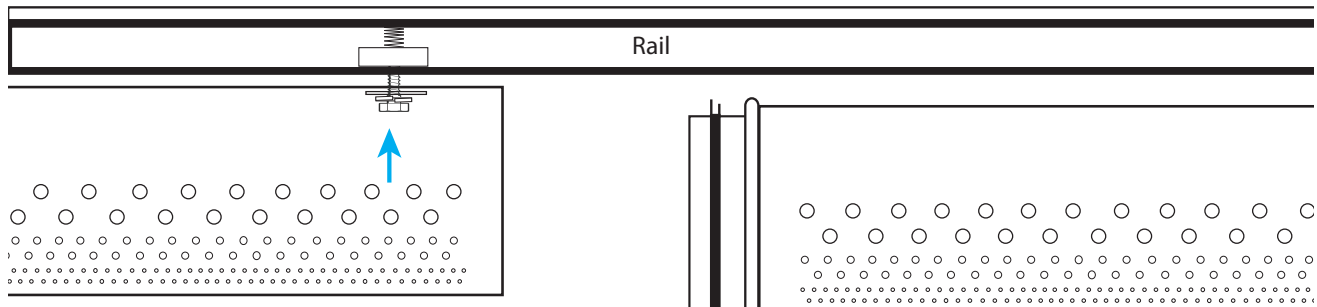


3. Insert the Spring Lock inside the Rail, then turn the Bolt 1/4 turn clockwise in order to lock the Spring Lock in place. Slide the diffuser in the rail to connect to the previous section, then tighten the bolt from inside the duct to secure the assembly.

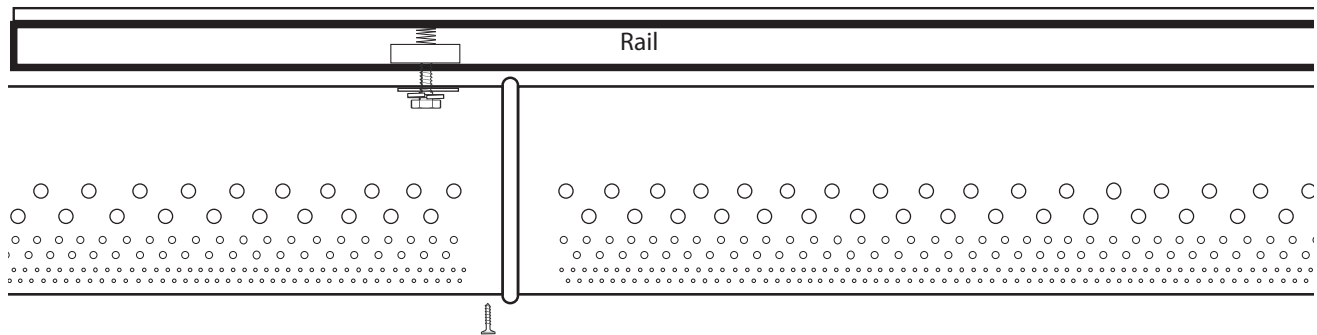


Note: it is also possible to insert the Spring Lock in the Rail prior to securing it to the Duct Diffuser. The spring will provide enough force to hold the Spring Lock while you insert and tighten the Bolt.

4. Install the first duct diffuser section, then tighten the bolt from inside the duct to secure the duct diffuser.



5. Insert the male part of the new duct section into the female part of the already installed duct, and push until the edge of the duct fully rests on the sleeve's retaining bulge. Secure with metal screws $\frac{1}{2}$ " away from the bulge, on the side of the duct that was already installed.



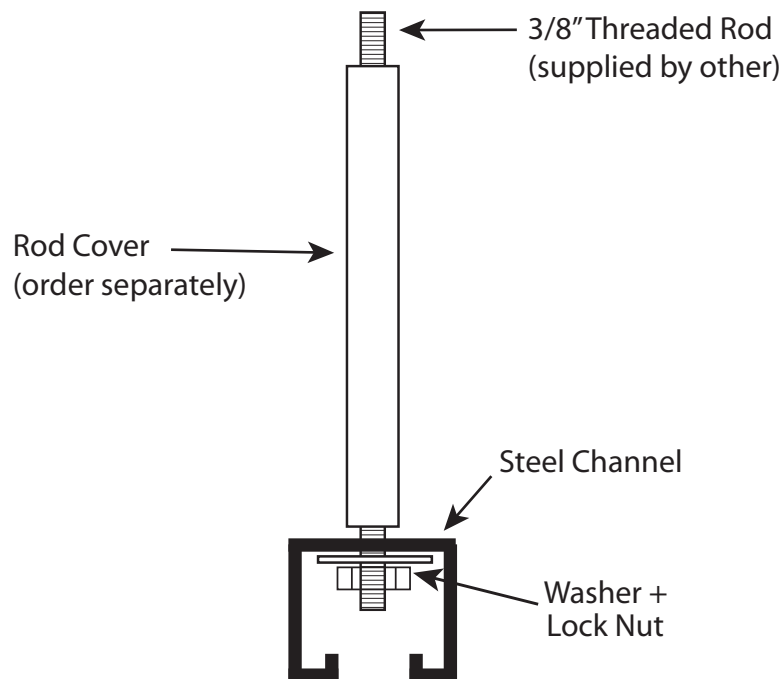
Apply step #4 to the newly installed section, and keep repeating until all sections are installed.

Installation of the Duct Diffuser Using Rails Suspended From the Ceiling with Threaded Rods

1. Installation of the Threaded Rods and Covers

Measure and cut 3/8" Threaded Rods (supplied by others) to ensure proper installation height of the Duct Diffusers. When calculating the length, make sure to plan an extra 1/2" to attach the rail. Rod Covers shall be at least 1 1/2" shorter than the Threaded Rods.

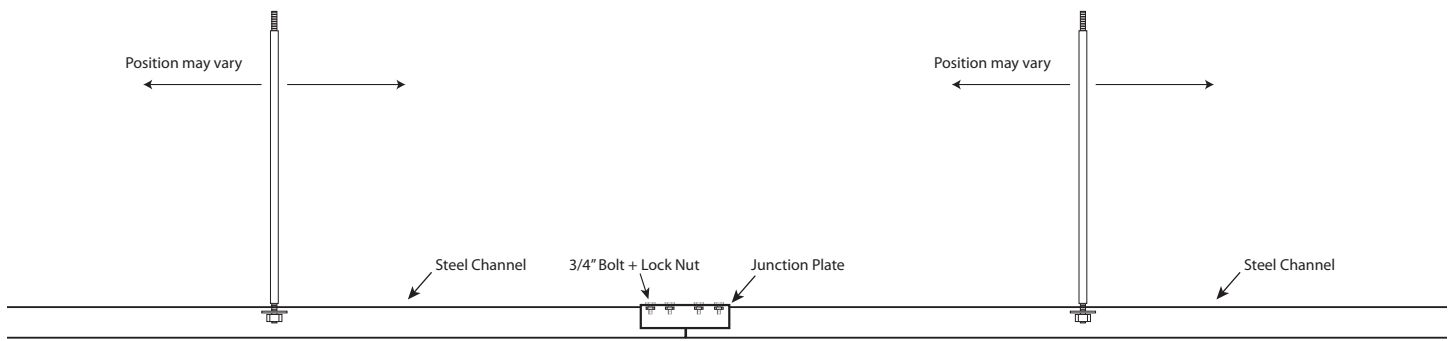
Attaching rail to the ceiling with a threaded rod



2. Installation of the DRAILS Suspended Rail

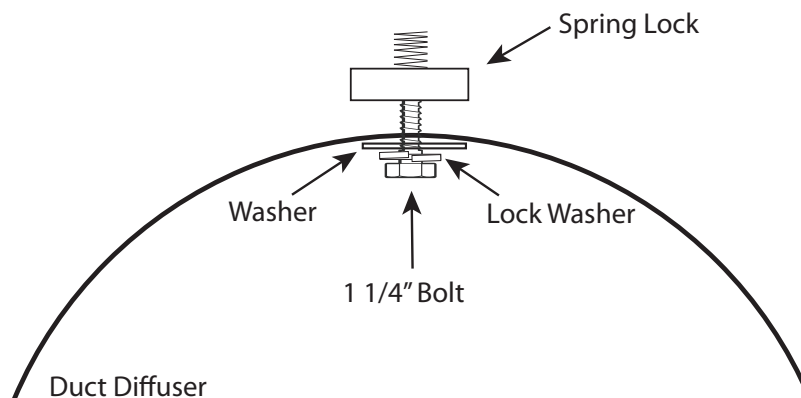
Insert the rod through the proper slot on top of the rail, then secure the assembly using a Washer and a Lock Nut. Secure rail ends with other connecting rails using the Coupler and four (4) 3/4" bolts and nuts provided with the rail.

Important: do not rely solely on rail couplers to suspend a rail section. Each 10 ft length must be attached to at least one Threaded Rod.

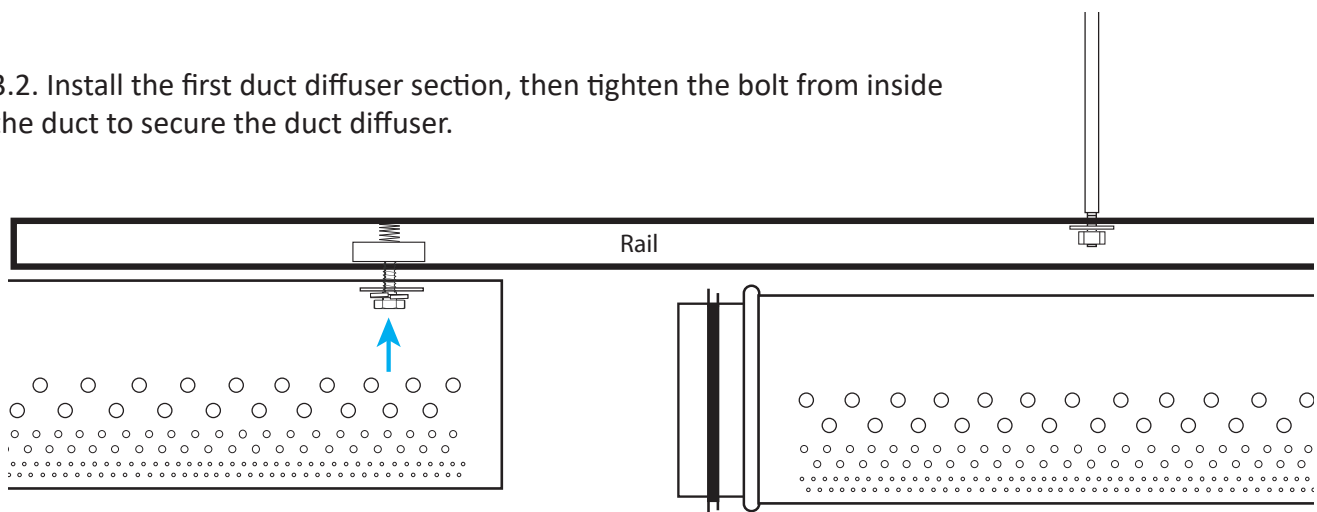


3. BREEZ Installation

3.1. Attach the Spring Lock to the Duct Diffuser using a 1 1/4" Bolt through the 3/8" hole on top of the Duct Diffuser. From the inside, tighten the Bolt using a Washer and Lock Washer as illustrated below. Tighten enough to secure the assembly, but do not fully tighten. Some loose is required for the duct to be secured to the rail.



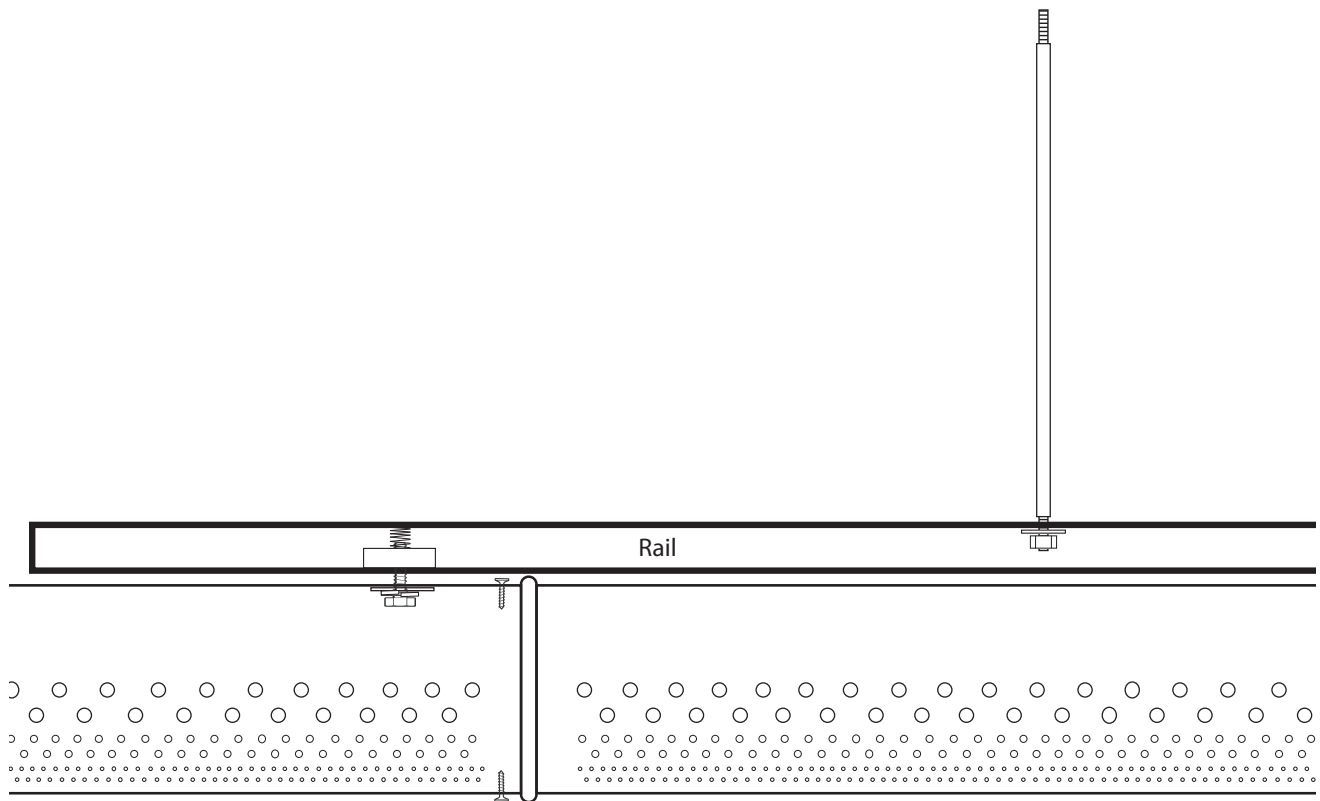
3.2. Install the first duct diffuser section, then tighten the bolt from inside the duct to secure the duct diffuser.



3.3. Insert the male part of the new duct section into the female part of the already installed duct, and push until the edge of the duct fully rests on the sleeve's retaining bulge. Secure with metal screws $\frac{1}{2}$ " away from the bulge, on the side of the duct that was already installed.

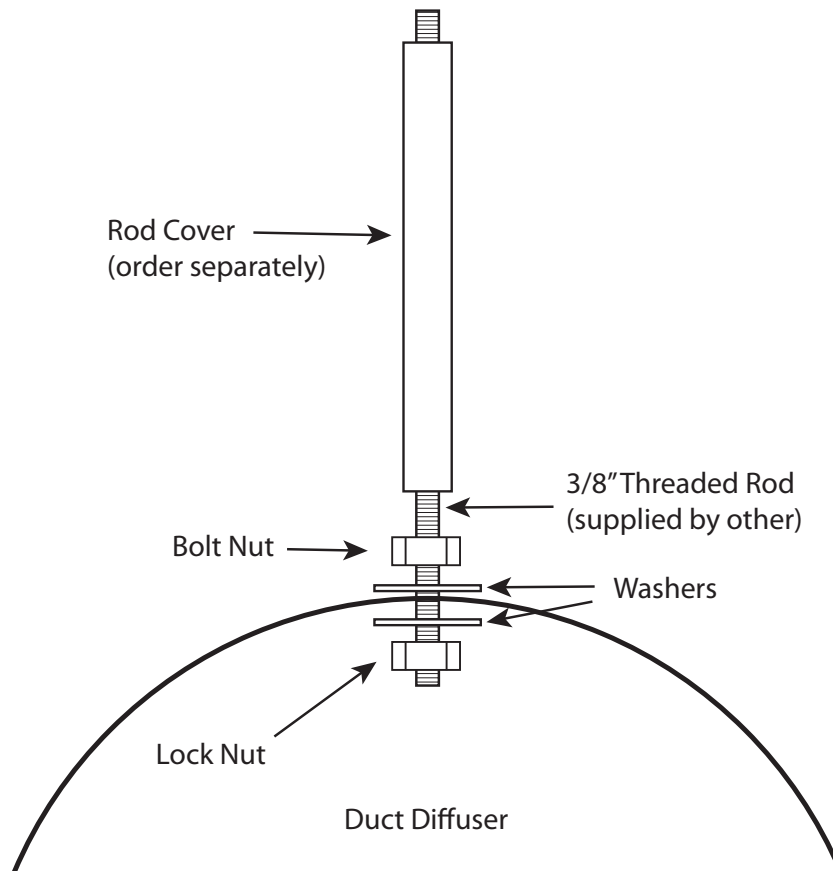
Add additional metal screws as needed in order to ensure a perfect alignment of larger duct diameters.

Important: use the matching painted metal screws provided with the duct diffuser.



Apply step #3.2 to the newly installed section, and keep repeating until all sections are installed.

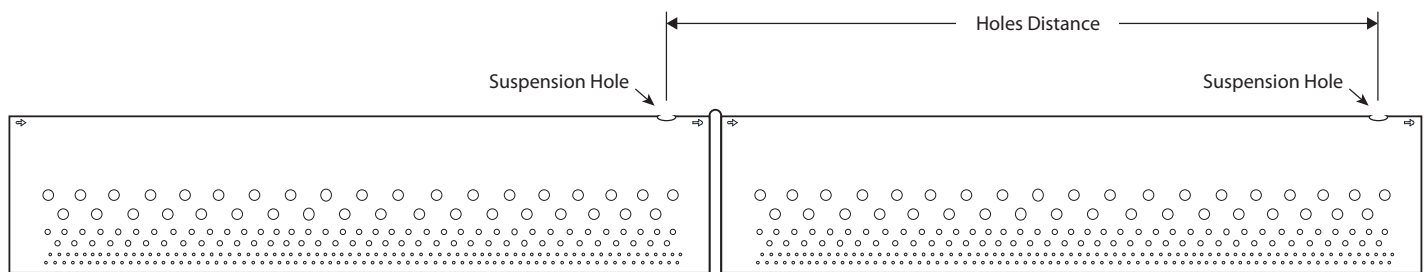
Suspension of the Duct Diffuser Using Threaded Rods Only



1. Installation of the Threaded Rods and Covers

1.1. Spacing the Rods

Anchor 3/8" threaded rods to the ceiling. Threaded rods and anchors are not supplied by EffectiV. BREEZ sections have pre-cut suspension holes on top. Each section has one hole located 4 inches away from the end of the duct through which the air exits. The distance between the holes for two standard 60" sections including the connecting sleeve is exactly 60". However some sections can be less than 60", therefore we highly recommended measuring the distance between the holes prior to anchoring the rods to the ceiling.



1.2. Rods and Rod Cover Lengths

Measure and cut the 3/8" Threaded Rods to ensure proper installation height of the Duct Diffusers. Threaded Rods shall be 1 1/2" longer than the desired height and Rod Covers shall be 1" shorter than the desired height (2 1/2" shorter than the Threaded Rods). Secure Threaded Rods to the ceiling, then slide Rod Covers in and secure with bolt nut.

2. Duct Diffuser Installation

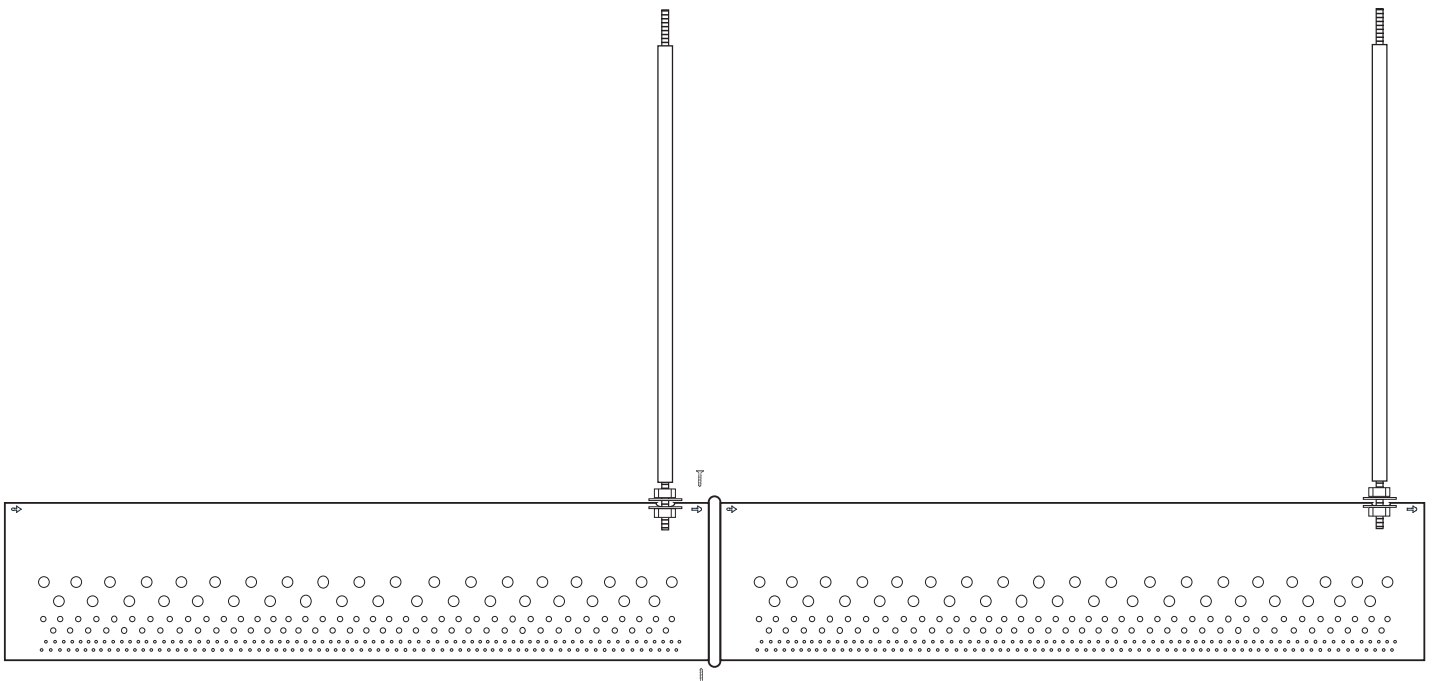
Insert the male part of the new duct section into the female part of the already installed duct, and push until the edge of the duct fully rests on the sleeve's retaining bulge.

Inserting a disc in the threaded rod, and then the threaded rod into the suspension hole located on the top of the diffuser. Insert another disc and the lock nut. Tighten the lock nut, raising the duct section until the desired height is achieved.

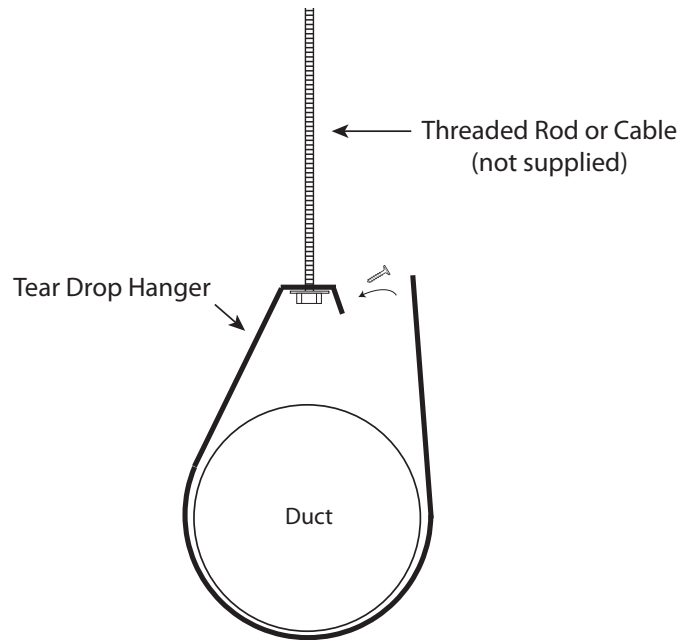
Once the section is properly installed, secure to the previously installed section with two metal screws in the arrows 1/2" away from the bulge, on the side of the duct that was already installed.

Add additional metal screws as needed in order to ensure a perfect alignment of larger duct diameters.

Important: use the matching painted metal screws provided with the duct diffuser.



Suspension of the Duct Diffuser Using Tear Drop Hangers



1. Suspend the Tear Drop Hangers to the desired duct height using threaded rod or cable (not supplied by EffectiV). Use one hanger per duct section.
2. Insert the BREEZ duct section into the Tear Drop Hanger. Make sure the duct section is properly aligned and connected with the previously installed section, secure the section with the previous one using screws in the arrows on top of the duct, then close and secure the Tear Drop Hanger.

