

SINGLESPAN™ Acoustical Corridor Suspension System

Assembly and Installation Instructions

1. NON-SEISMIC INSTALLATION INSTRUCTIONS

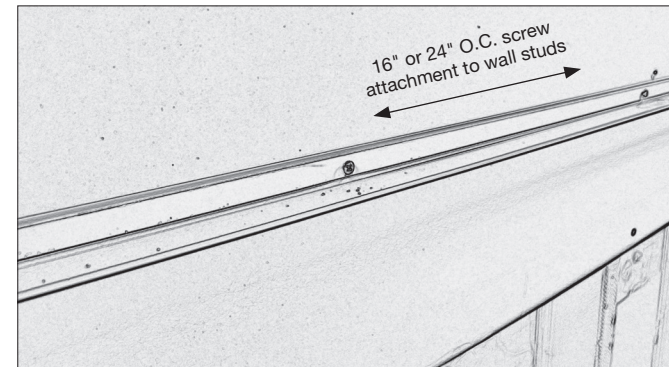
1.1 Install Structural Wall Angle

- Screw attach the structural wall angle to studs every 16" or 24" on center with #8 x 1-1/4" or similar self-drill screws. (Fig 1)

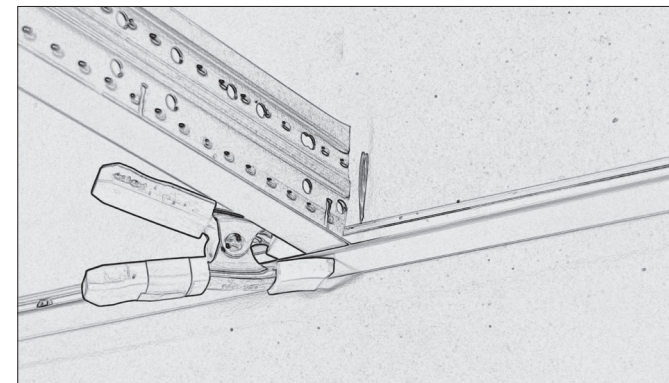
2. INSTALLATION USING PEAKFORM® PLUS MAIN BEAMS

2.1 Installation of PeakForm Plus Main Beams

- Secure both ends of the main beam to the structural wall angle with XTAC clips.
- Secure the XTAC clip to the structural wall angle with recommended #8 x 3/4" or similar self-drill screws.
- Secure the XTAC clip to the main beam with a steel pop rivet.
- Install the balance of the grid. (Fig 2)



(Fig 1)



(Fig 2)

2.2 Installation Using Armstrong Heavy-duty Main Beams with StrongBack™ Support

To add SingleSpan strength to Armstrong heavy-duty main beams, screw attach StrongBack SB12 to the main beam with 2 - #8 x 1/2" or similar self-drilling screws placed every 2' along the entire length of the StrongBack. (Fig 3)

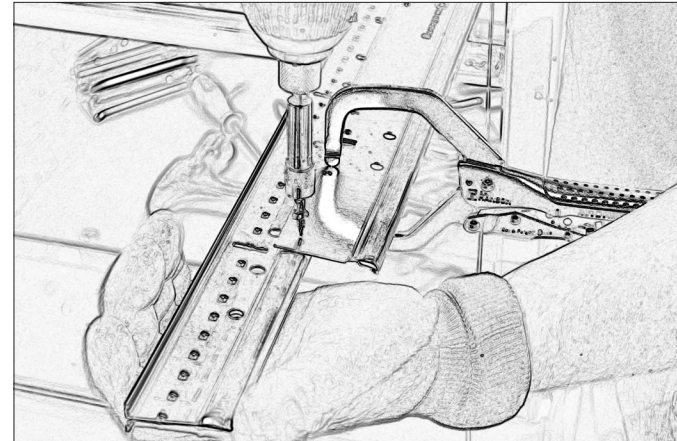
Do not cover rout holes on the main beam with StrongBack.

2.3 Cross Tee Attachment to Wall Angle

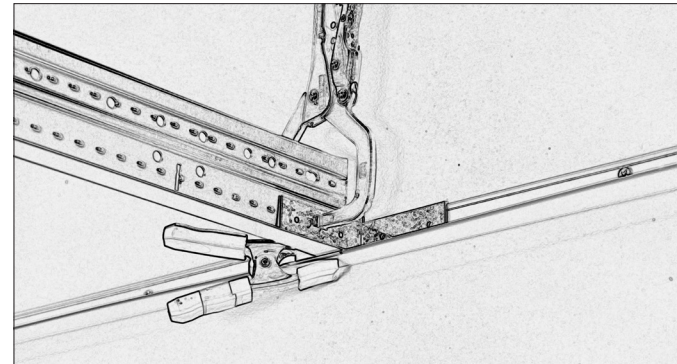
- Secure the cross tee to the wall angle with #8 x 1-1/4" or similar self-drill screws. (Fig 4)

2.4 Install Hanger Wires Along Main Beams

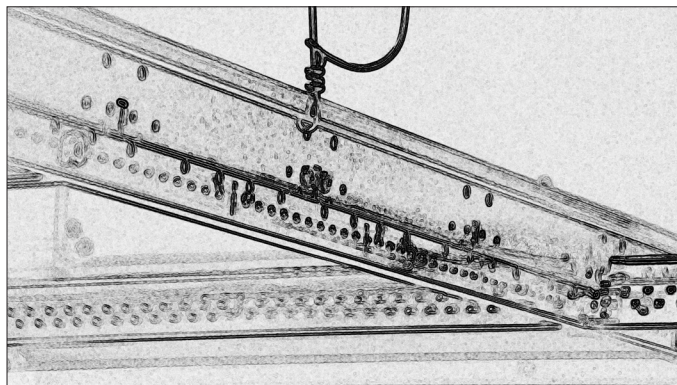
- Determine hanger wire spacing to be used based on expected loading (See chart below). (Fig 5)



(Fig 3)



(Fig 4)

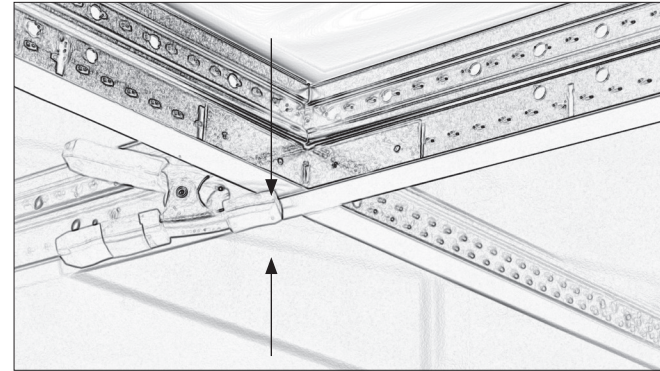


(Fig 5)

Face	Item No.	Hanger Spacing Lbs./Lin. Ft.			Main Beam O.C. Spacing	Hanger Spacing – Maximum Load in Lbs./Sq. Ft.			Lin. Ft./ Ctn.
		4 Ft.	5 Ft.	6 Ft.		4 Ft.	5 Ft.	6 Ft.	
SingleSpan Prelude® Main Beams with PeakForm® Plus									
15/16"	730098HRC	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	81.6
15/16"	730102HRC	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	85
15/16"	730144HRC	41.1	18.6	12.8	24" 48"	20.55 10.27	9.3 4.65*	6.4 3.2	120
StrongBack™ Compatible Heavy-duty Main Beam Options (Specify StrongBack Support pieces separately)									
Interlude® 9/16"	6101 HD	–	24.5	14.5	24" 48"	–	12.5 6.12*	7.25 3.62	240
Silhouette® 9/16"	7601 HD	–	26.1	14.7	24" 48"	–	13.05	7.35	240
	76018 HD						6.52*	3.67	240
Suprafine® 9/16"	7501 HD	–	23.8	13.7	24" 48"	–	11.9 5.95*	6.85 3.42	240
Prelude® 15/16"	7301 HD	–	27.64	14.42	24" 48"	–	13.5 6.75*	7.21 3.60	240
StrongBack Support Hangers (Use with 9/16" Heavy-duty Main Beams above)									
	SB12	–	–	–	–	–	–		144 pcs

2.5 Installation Considerations for Intersections and Corners

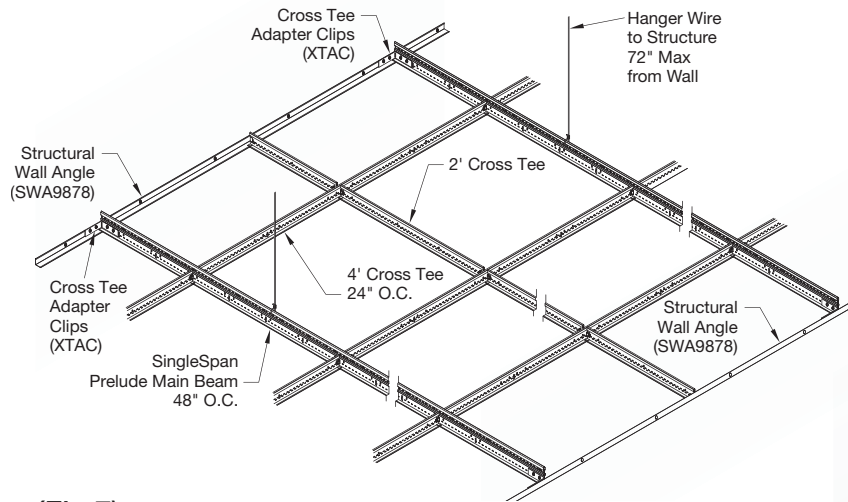
- When approaching a turn or intersection, simply install a PeakForm® Plus or StrongBack™ modified heavy-duty main beam where a cross tee would normally be installed. (Fig 6)
- Attach the main beam at the cross tee location with two XTAC clips positioned opposite of each other at the “main-to-main” junction.
- Secure XTAC clips with 1/8" steel pop rivets or #8 x 1/2" or similar self-drill screws.



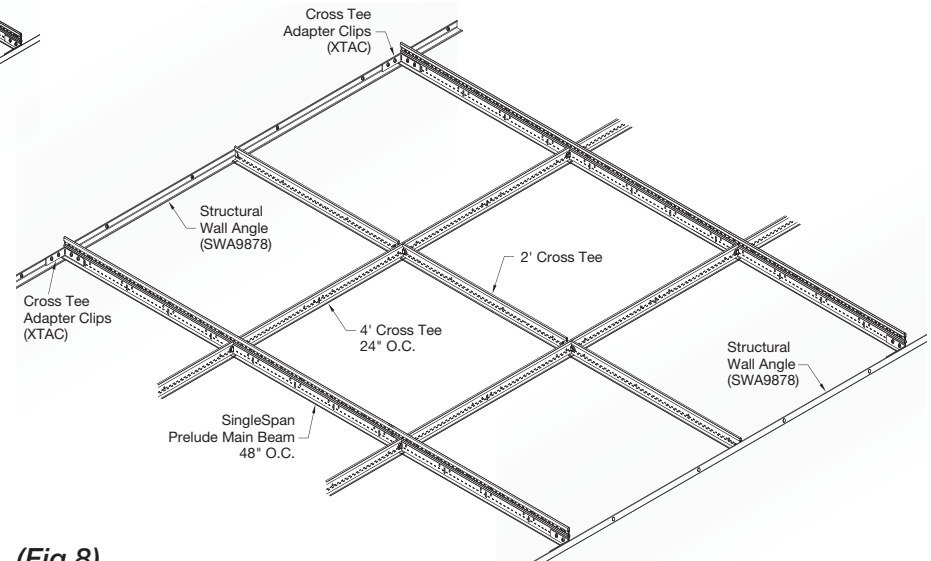
(Fig 6)

2.6 Non-Seismic Installation 8' Corridor (Fig 7)

2.7 Non-Seismic Installation 6' Corridor (Fig 8)



(Fig 7)



(Fig 8)

3. SEISMIC C & D, E, F INSTALLATIONS

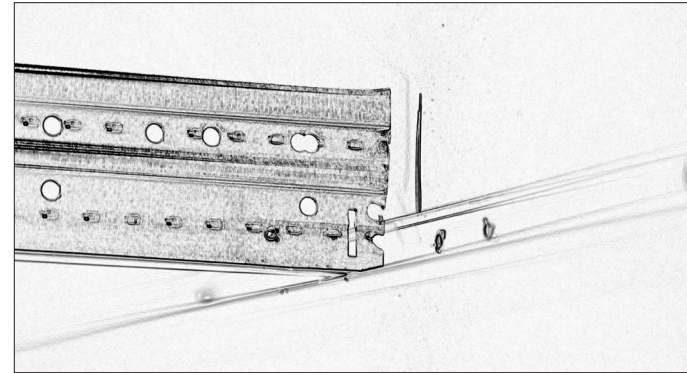
- Install the structural wall angle (per section 1.1)
- Determine if you will be using Prelude® PeakForm Plus main beams or heavy-duty main beams with StrongBack (per section 2.1 or 2.2) (Fig 9)

3.1 Float Wall Installation

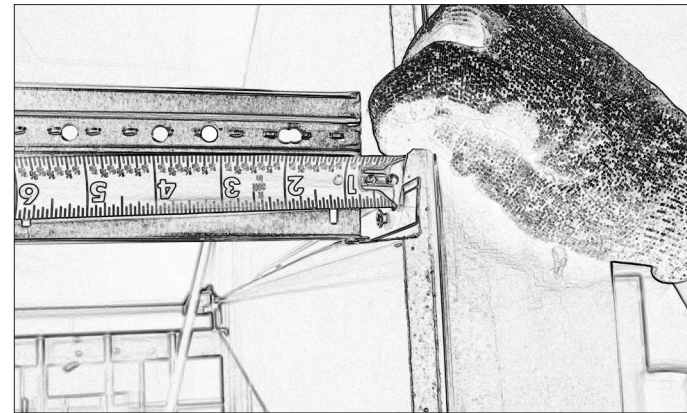
On the float wall, allow 3/4" clearance for the main beam in seismic D, E, F. In seismic C, allow 3/8" clearance. (Fig 10)

3.2 Fixed Wall Installation

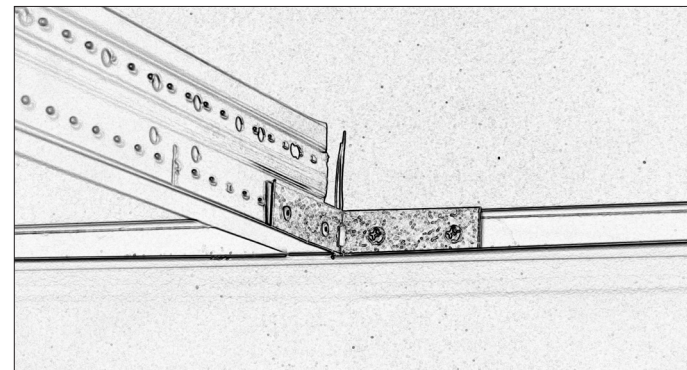
Attach the fixed wall main beam to the structural wall angle with XTAC clips using #8 x 1/2" or similiar self-drilling screws. No main-to-tee clearance is required on the fixed wall. 1/8" steel pop rivets or #8 screws are acceptable to secure cross tees to the wall angle. (Fig 11)



(Fig 9)



(Fig 10)



(Fig 11)

3.3 Cross Tee Installation

Next, install the remaining 4' and 2' cross tees. *(Fig 12)*

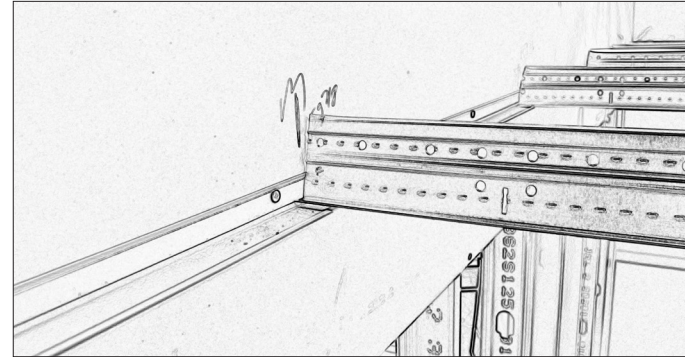
3.4 Install Hanger Wires

Hanger wires may be attached anywhere along the axis of the main beam as long as the wire is within 6' of a corridor wall. For heavy-duty installations – within 5' of a corridor wall. *(Fig 13)*

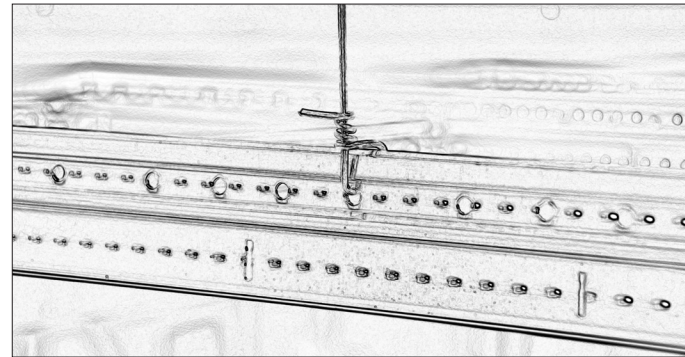
3.5 Installation of the Lateral Support Bar

The Lateral Support Bar (LSB4, 6, 8, 10, or 12) eliminates all perimeter wires in a seismic installation.

To install, use pliers to bend open the rout locations along the length of the Lateral Support Bar, then fit the bar over the top bulb of the main beam. *(Fig 14)*



(Fig 12)



(Fig 13)



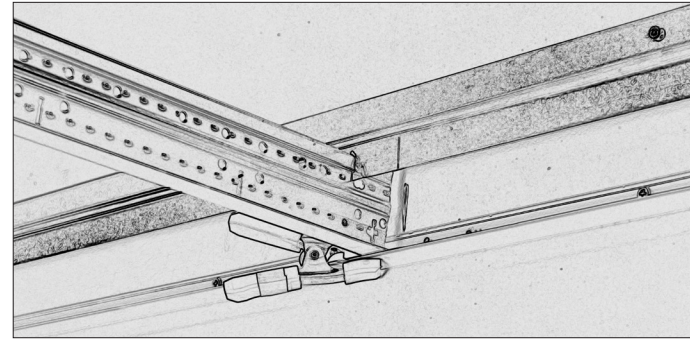
(Fig 14)

Use pliers to close the rout to ensure the main beam bulb is securely captured in the Lateral Support Bar. The Lateral Support Bar will not engage cross tees. **(Fig 15)**

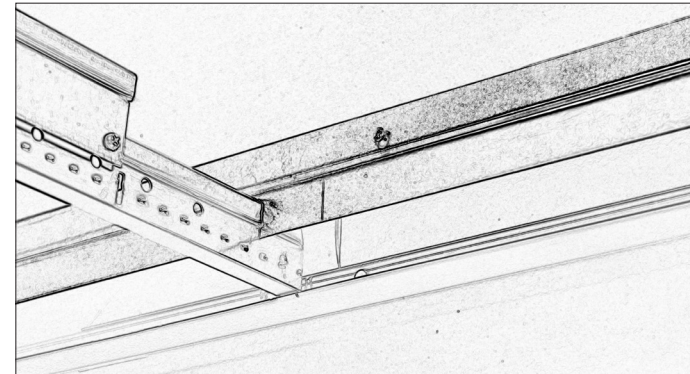
If modifying heavy-duty main beams with StrongBack™ SB12, the routs of the Lateral Support Bar should engage the bulb of the main beam, not the bulb on the SB12.

Use 8 x 1-1/2" or similar self-drill screws to attach to the Lateral Support Bar to wall studs on 16" centers. **(Fig 16)**

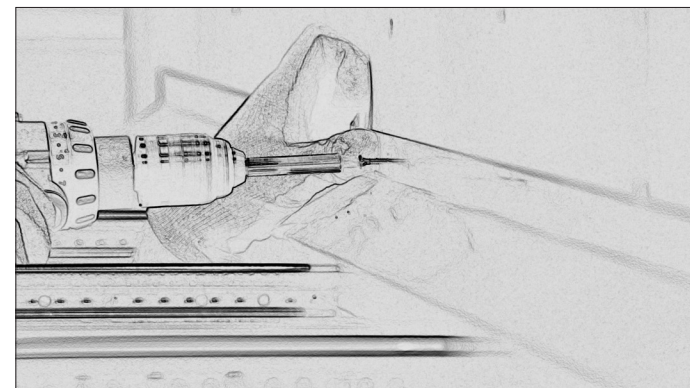
When using PeakForm® Plus main beams, locate the top edge of the Lateral Support Bar 5.23" above the horizontal flange of the wall angle. When using StrongBack™ modified 7301 / 7501 main beams, the top edge of the Lateral Support Bar is 4.39" above the structural wall angle. Locate the Lateral Support Bar 4.64" above 7601 / 6101 main beams. **(Fig 17)**



(Fig 15)



(Fig 16)

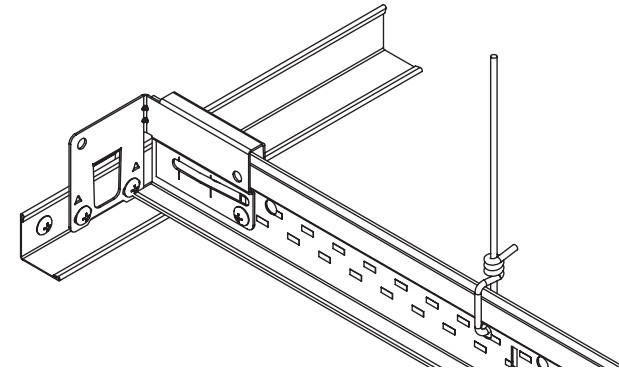


(Fig 17)

3.6 Installation of BERC2 Clip

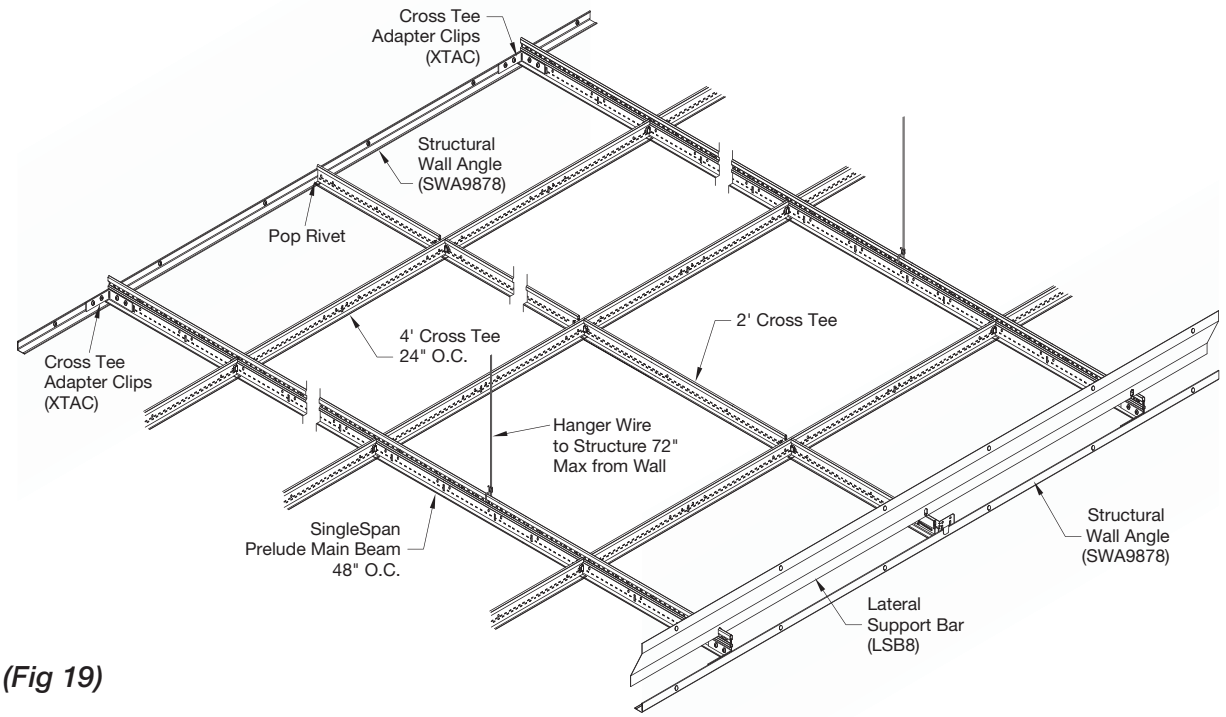
When Prelude® PeakForm® Plus main beams are installed on 4' centers, cross tees will not engage in the Lateral Support Bar routs. Secure tees to the wall angle with the BERC2 clip or pop rivet. Loosely install a #8 screw into the lateral slot of the BERC2.

On the fixed wall, secure tees to the wall angle with BERC2 clips or pop rivets. Secure tees to BERC2 with #8 x 1/2" or similar screw through a fixed pilot hole in the lower right side of the BERC2 clip. (Fig 18)



(Fig 18)

3.7 Seismic Installation 8' Corridor (Fig 19)



(Fig 19)

MORE INFORMATION

For more information, or for an Armstrong Ceilings representative, call 1 877 276-7876.

For complete technical information, detail drawings, CAD design assistance, installation information, and many other technical services, call TechLine customer support at 1 877 276-7876 or FAX 1 800 572-TECH.

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