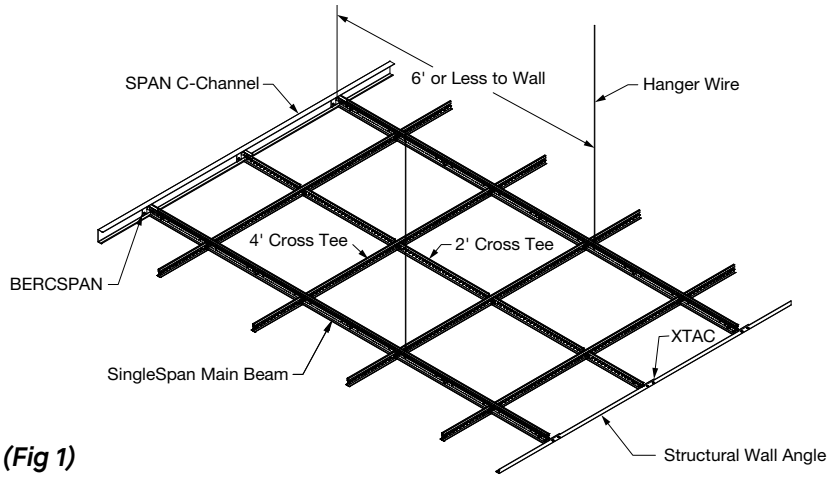
SingleSpan™ Acoustical Corridor System

Assembly and Installation Instructions

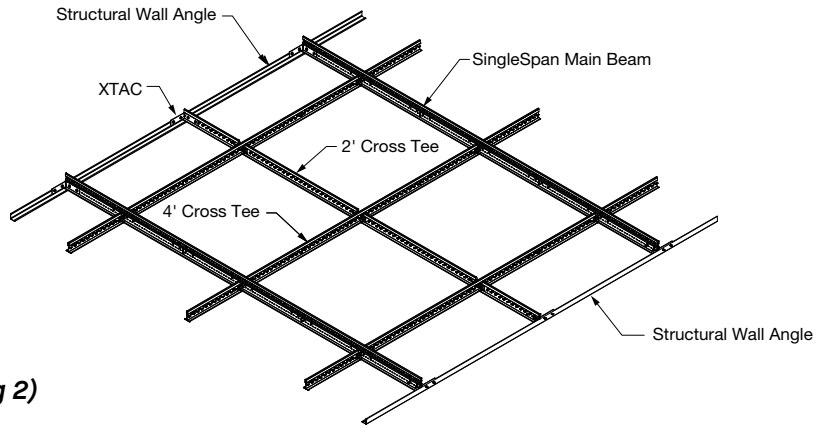
1. SYSTEM OVERVIEW

The SingleSpan™ Acoustical Corridor System allows you to reduce or eliminate hanger wires in acoustical corridor installations where crowded plenums are a challenge ***(Fig 1).***



(Fig 1)

2. NON-SEISMIC INSTALLATION INSTRUCTIONS (Fig 2)



(Fig 2)

2.1 Install Structural Wall Angle

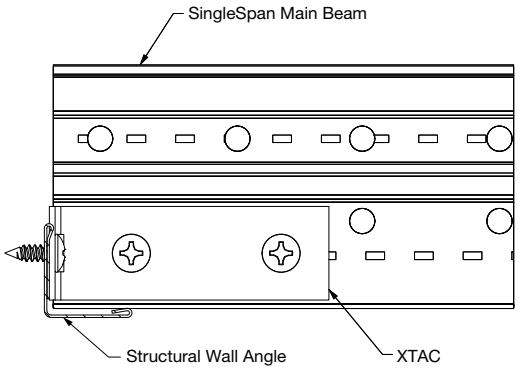
Attach the structural wall angle to the studs every 16” or 24” O.C. with #8 × 1-1/4” or similar self-drill screws on both sides of the corridor.

2.2 Install Main Beams

2.2.1 Installation with SingleSpan Main Beams (Fig 3)

- 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 × 3/4” or similar screws.
- Secure the XTAC clip to the main beam with a steel pop rivet or screw equivalent.
- Install the balance of the grid.

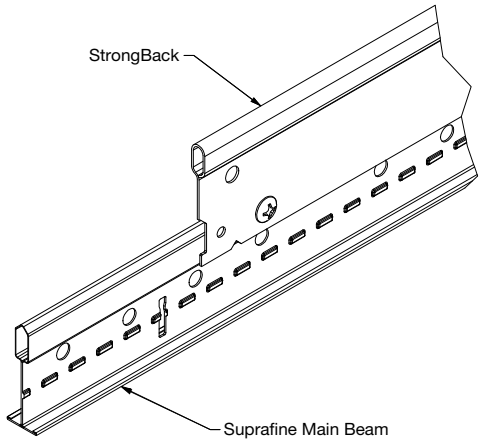
Armstrong®
World Industries



(Fig 3)

2.2.2 Installation with 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 × 1/2" or similar self-drilling screws placed every 2' along the entire length of the StrongBack ***(Fig 4).*** Once complete, follow instructions in 2.2.1 for installation procedure of the main beam. **NOTE:** Do not cover rout holes on the main beam with StrongBack.



(Fig 4)

2.3 Perimeter Cross Tees

- Using an XTAC, secure the cross tee to the structural wall angle with recommended #8 × 3/4" or similar screws.
- Secure the XTAC clip to the cross tee with a steel pop rivet or screw equivalent.

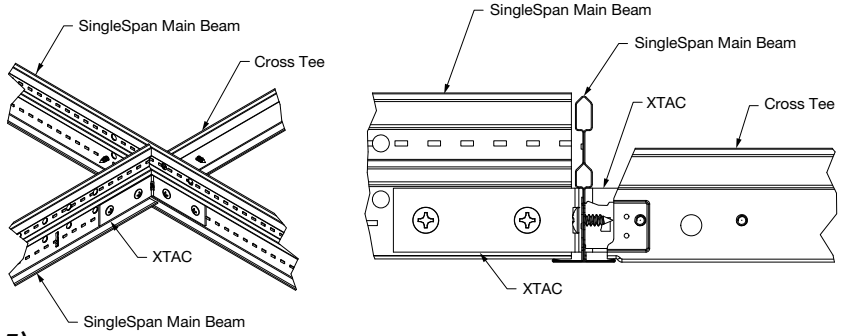
2.4 Install Hanger Wire Along Main Beams

Determine hanger wire spacing to be used based on expected loading (see chart below). Hanger wire may not be more than 6 ft. from corridor wall. When only using one hanger wire, max corridor width is 8'6".

Face	Item No.	Hanger Spacing Lbs./Lin. Ft.			Main Beam O.C. Spacing	Hanger Spacing – Maximum Load in Lbs./Sq. Ft.			Lin. Ft./ Ctn.
SingleSpan Prelude® Main Beams with PeakForm® Plus		**4 Ft.**	**5 Ft.**	**6 Ft.**		**4 Ft.**	**5 Ft.**	**6 Ft.**	
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 76018 HD	–	26.1	14.7	24" 48"	–	13.05 6.52*	7.35 3.67	240 240
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 (Fig 5)

- When approaching a turn or intersection, simply install a SingleSpan™ or StrongBack™ modified heavy-duty main beam where a cross tee would normally be installed.
- 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, #8 × 1/2" self-drilling screw, or other screw equivalent.

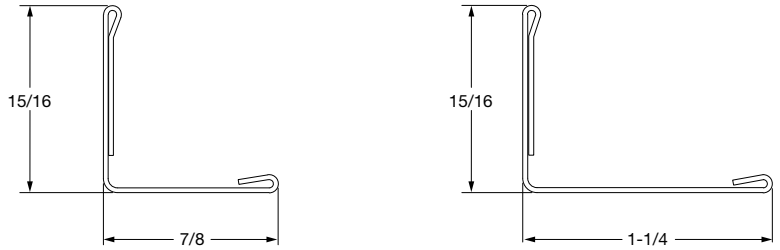


(Fig 5)

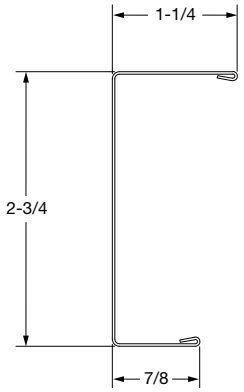
3. SEISMIC INSTALLATIONS INSTRUCTIONS

3.1 Determine Seismic Requirements

Typical installations may allow for perimeter molding to be 7/8" in width, but others may indicate the need for 1-1/4" trim to accommodate a cross tee running on the perimeter trim parallel to the wall. In those specialized scenarios, the SPAN C-Channel (7836) can be rotated to use the 1-1/4" leg on the bottom ***(Fig 6)***, and the typical structural wall angle (SWA9878) can be substituted for the wider style (SWA9854) as needed ***(Fig 7).*** There is a rout located a 1/2" from the end of the SingleSpan™ which is to be utilized during these specialized installs.



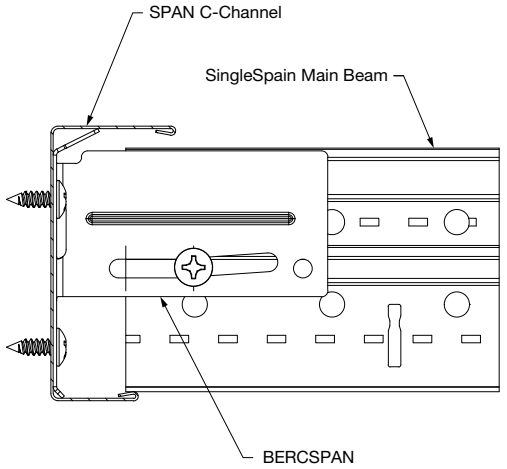
(Fig 6)



(Fig 7)

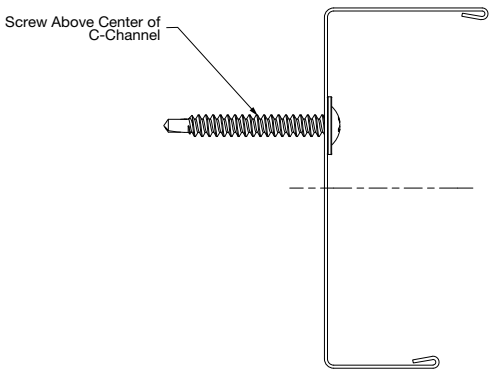
3.2 SingleSpan™ Main Beam Installation

3.2.1 Float Wall Installation for Typical Seismic Installations (Fig 8)



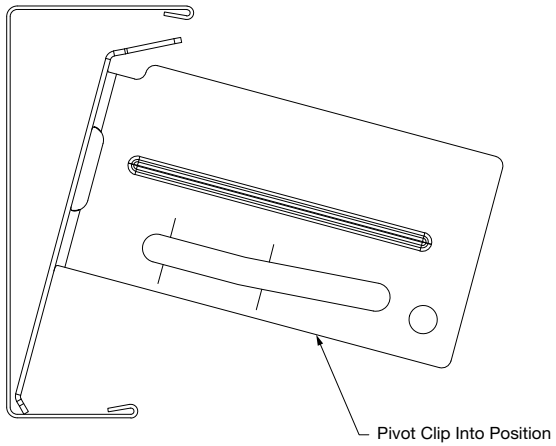
(Fig 8)

- Attach the C-Channel to the float wall and structural wall angle to the fixed wall with #8 × 1-1/4" self-drilling screws to the studs every 16" O.C. Ensure the screws are in the top half of the channel. ***(Fig 9).***



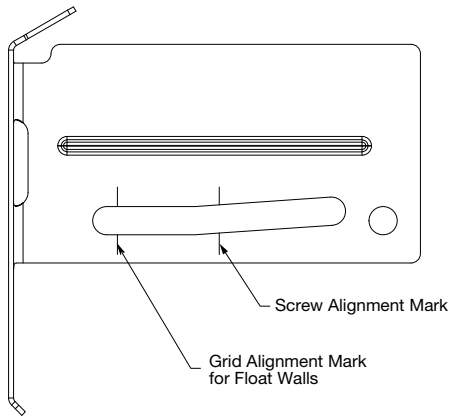
(Fig 9)

- Insert a BERCSPAN clip into the C-Channel by pivoting the lower edge ***(Fig 10).***



(Fig 10)

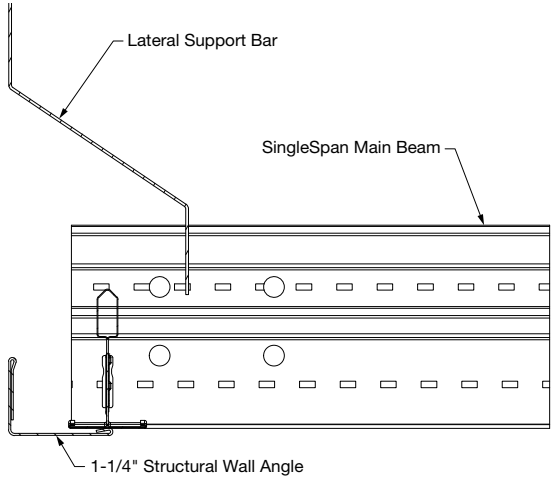
- Once the clip is located, position the main beam so that it aligns with the first marked line on the clip. This will give you the 3/4” spacing that is needed (if meeting Category C seismic requirements, space it at least 3/8”).
- Secure the clip to the main beam with one #8 × 1/2” self-drilling screw in line with the second marked line on the clip ***(Fig 11).***



(Fig 11)

- Secure the clip to the C-Channel with two #8 self-drilling screws in the two horizontal slots. Slots are provided to allow for precision adjustment if needed.

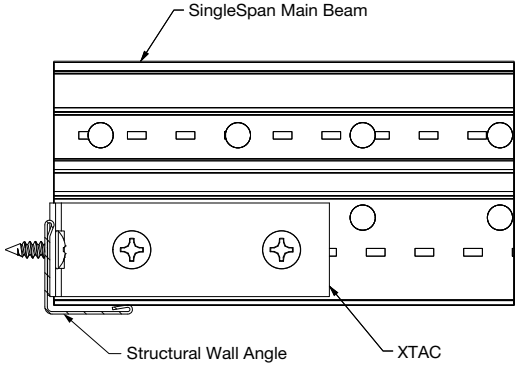
3.2.2 Float Wall Installation for HCAI/OSHPD Requirements (Fig 12)



(Fig 12)

- Depending on specific requirements, install the 7/8” or 1-1/4” structural wall angle with #8 × 1-1/4” self-drilling screws to the studs every 16” O.C. on both the fixed and float walls.
- On the float wall, allow 3/4" clearance for the main beam in seismic D, E, F. In seismic C, allow 3/8" clearance.

3.2.3 Fixed Wall Installation (Fig 13)

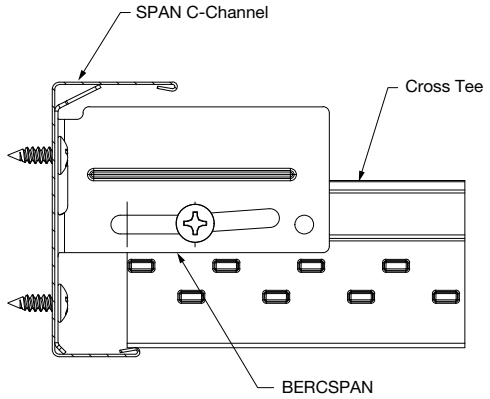


(Fig 13)

- Secure the opposite end of the main beam to the structural wall angle with an XTAC clip.
- Secure the XTAC clip to the structural wall angle with recommended #8 × 3/4” or similar screws.
- Secure the XTAC clip to the main beam with a steel pop rivet or screw equivalent.
- Install the balance of the grid.

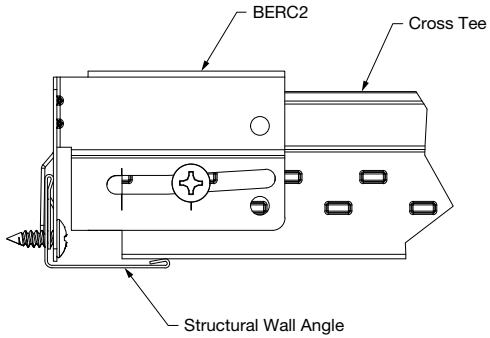
3.3 Cross Tee Installation

- Install the remaining 4’ and 2’ cross tees.
- Directions for installing per section 3.3.1 only: For perimeter cross tees, use an XTAC on the fixed wall and BERCSPAN on the float wall ***(Fig 14).*** Continue to utilize the first marked line for proper spacing from the wall.



(Fig 14)

- Directions for installing per section 3.3.2 only: For perimeter cross tees, use the XTAC on the fixed wall and BERC2 on the float wall ***(Fig 15).***



(Fig 15)

NOTE: For applications that have 48” spaced main beams and are utilizing the rout a 1/2” from the end of the main beam for a cross tee riding parallel to and on top of the Structural Wall Angle, an STAC will be needed to connect the cross tee positioned perpendicular to the wall and into the rout of the other cross tee.

3.4 Hanger Wire Installation

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. When only using one hanger wire, max corridor width is 8’6”.

3.5 Lateral Support Bar Installation (install only if following directions from section 3.3.2)

- 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.
- 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.
- Use 8 × 1-1/4" or similar self-drill screws to attach to the Lateral Support Bar to wall studs on 16" centers.

3.6 Installation Considerations for Intersections and Corners

In general, procedures outlined in section 2.5 should be followed. However, additional support may be required to satisfy the specific seismic requirements of a given application.

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