Axiom® Vector® Trim

Assembly and Installation Instructions

1. GENERAL

1.1 Product Description

Axiom® Vector® is a unique perimeter trim system designed specifically for use with the Vector family of ceiling panels from Armstrong. It is intended for use only with full panel installations.

Axiom Vector duplicates the 1/4" panel reveal at the edges of installations that do not extend to the walls of a space.

Six profile heights are available. AX2VESTR, nominal 2" profile height; AX4VESTR, nominal 4" profile height; AX6VESTR, nominal 6" profile height; AX8VESTR, nominal 8" profile height; AX10VESTR, nominal 10" profile height; and AX12VESTR, nominal 12" profile height. Outside and inside corner posts are also available for each profile height. All Vector ceiling panels install on 15/16" wide T-Bar suspension systems.

These instructions are divided into sections detailing material delivery and identification, component assembly, installation, and final detailing. Please carefully review all appropriate sections before proceeding with installation.

2. MATERIAL DELIVERY AND IDENTIFICATION

2.1 Delivery

Axiom Vector components and hardware are delivered to the jobsite in specially designed packaging. Exercise appropriate care to protect the finished surfaces of the channel trim.

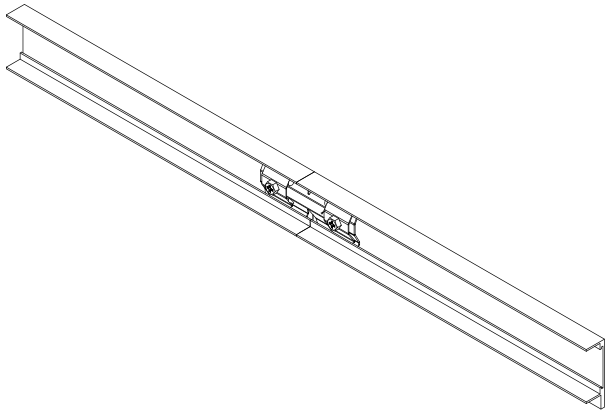
2.2 Review

Review the packing slip to ensure that the complete order has been delivered to the site.

3. COMPONENT ASSEMBLY

3.1 Splice Plates

Steel splice plates are used to align and secure all joints between sections of Axiom Vector trim. The 2" high profile will require one AXSPLICE2 plate at each joint. The 4" and 6" high profiles require two AXSPLICE2s at each joint. The 10" and the 12" high profiles require three AXSPLICE2s at each joint. Splice plates are secured to the trim sections using factory-installed setscrews. Where desired, it may be beneficial to caulk or tape the backside of the joints to prevent light transmission. ***(Fig 1)***



AXSPLICE2 - Splice Plate with Setscrews

(Fig 1)

Armstrong®
World Industries

Typical Procedure

3.1.1 Position the splice plate in the bosses on the inside of the trim.

3.1.2 Tighten the setscrews that secure the splice to the trim. CAUTION: Do not overtighten these screws to the point where they distort the face of the trim.

3.2 Corner Assembly

3.2.1 Factory-mitered inside corners and outside corner posts are available.

3.2.2 Axiom® Vector® can be field mitered using a power miter saw equipped with a blade designed to cut aluminum.

3.2.3 Bend the splice plate at the center notches to form the desired angle.

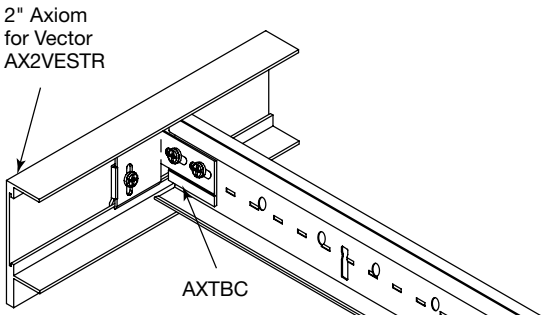
3.2.4 Pre-mitered inside corner sections are installed using AXSPLICE splice plates (2 screw) at the mitered corner and AX4SPLICEB plates (4 screw) where the corner elements join the straight trim sections. The outside corner posts ship with the AXSPLICE already built into the corner piece and is connected to straight pieces using the splice plate built into the outside corner post.

3.3 T-Bar Connector Clips

T-Bar Connector Clips are used to attach the Axiom Vector trim to the supporting suspension system members. These two-piece clips are supplied as an assembled unit with the steel locking screw factory installed. One clip is required at each location where the suspension system intersects the channel trim.

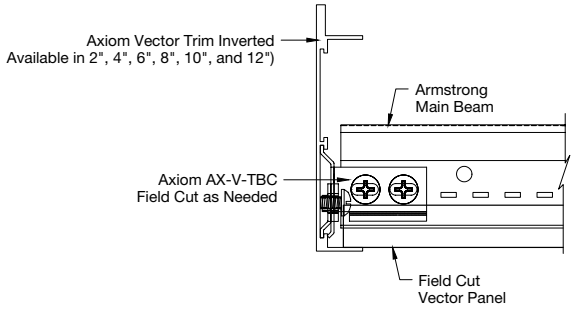
There are three versions of the T-Bar connector clip:

The AXTBC is used in installations where the grid will rest flush on the Axiom® flange (e.g. drywall, lay-in, full size Vector® and tegular panels) or need to be raised 1/4" (e.g. cut tegular panels, Silhouette® grid). ***(Fig 2a)***



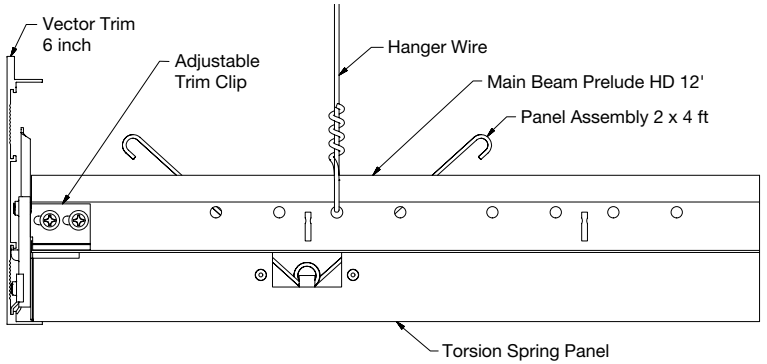
(Fig 2a) AXTBC – T-Bar Connector Clip

The AXVTBC is used in installations where the grid will need to be raised 3/8" or 1/2" (cut Vector panels). The AXVTBC must be requested at the time of order in lieu of the AXTBC clips. ***(Fig 2b)*** Please see Section 4 of this guide for additional interface details.



(Fig 2b)

The ATC (Adjustable Trim Clip; item 7239) can be used in various installations to accommodate a range of grid offsets. This clip can be adjusted to install grid at 0" to 3-3/4" above the flange of the Axiom at 1/8" increments. This adjustability enables Axiom to be installed with a range of WoodWorks®, MetalWorks™, and other and other Armstrong specialty products. It is recommended that 6" Axiom Vector or taller be used to enable the full range of adjustment. If 4" is used, the adjustability is limited to 1-1/4" and the ATC is not compatible with 2" Axiom. ***(Fig 2c)***



(Fig 2c)

T-Bar connector clips are attached to the suspension system members using screws supplied by the installer. Framing screws (#6 × 7/16" or 1/2" lg.) are typical. See detail drawings for alignment of the connector clip with the suspension system member.

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Typical Procedure

3.3.1 Cut suspension system to length.

3.3.2 Attach clip to suspension system member.

3.3.3 Engage clip in lower channel bosses and tighten locking screw. Refer to the Axiom® Accessory Quick Reference Guide for Inverted installation considerations.

4. GENERAL INSTALLATION PROCEDURES

4.1 Lay out and install the suspension system according to the reflected ceiling plan.

4.2 Cut and install the suspension system to maintain precisely 23-1/16" between the outer edge of the 15/16" T-Bar suspension system and the inner edge of the Axiom trim.

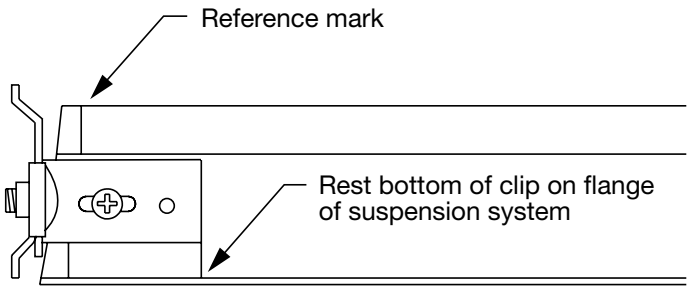
4.3 The correct length for the Axiom trim, when measured along the inside edge, will be 15/16" less than the nominal dimension of the full panel installation.

EXAMPLE: The nominal dimension of a four panel wide cloud would be 96". The Axiom trim should be cut to 95-1/16" measured along the inside edge.

4.4 Attach the T-Bar Connector Clips

4.5 Install the Axiom Trim – Traditional Method

4.5.1 Hang the sections of channel trim onto the suspension system by engaging the top ear of the connector clips under the boss of the channel trim. Slide the back plate downward to engage the lower boss on the trim and secure by tightening the locking screw. ***(Fig 3)***



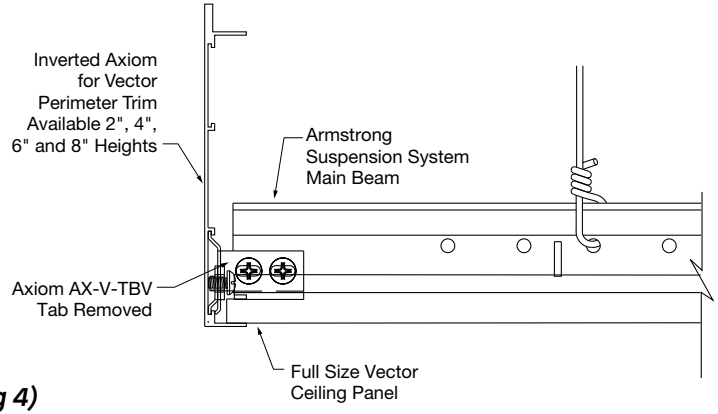
(Fig 3)

4.5.2 Complete the installation of all channel trim sections. Install and secure the splices.

4.5.3 Make adjustments as necessary to properly align the complete installation. Insert a second framing screw in each of the connector clips.

4.6 Install the Axiom Trim – Inverted Method

4.6.1 Hang the sections of inverted channel trim onto the suspension system by engaging the top ear of the connector clips under the boss of the channel trim. Slide the back plate downward to engage the lower boss on the trim and secure by tightening the locking screw. ***(Fig 4)***



(Fig 4)

4.6.2 Complete the installation of all channel trim sections. Install and secure the splices.

4.6.3 Make adjustments as necessary to properly align the complete installation. Insert a second framing screw in each of the connector clips.

4.7 Add additional hanger wires as required.

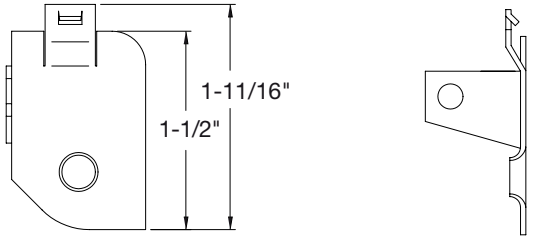
4.7.1 The manufacturer requires that Axiom systems and their supporting suspension systems be installed and supported in a manner that complies with all applicable codes and standards. Typically, this requires the use of #12 Ga. galvanized, soft-annealed steel wire or equivalent. Specification and approval of alternate materials should be by design professionals familiar with the project. Installers should exercise care in the application of hangers to minimize the visual impact on the finished installation. Wire wraps should be tight and neat, and where appropriate, the wires may be painted to blend into the background as much as possible.

4.7.2 Main beams must be supported 4' on center or by calculation based on actual ceiling weight.

4.7.3 Cross tees located on each side of a joint in the channel trim and then at 4' centers must be supported by wires closer to the trim than the midpoint of the cross tee.

4.7.4 Installations in areas requiring seismic restraint may require wires attached to each suspension system member within 8" of the cut end. This practice is highly recommended for all installations. Lateral force bracing shall be consistent with locally-approved standards, or as detailed in the specifications.

4.7.5 The weight of wood Vector® panels may require additional support at the perimeter of the installation. In this situation, two hanger wires, connected to Hanging Clips (AX2HGC), will be required for each section of channel trim. ***(Fig 5)***

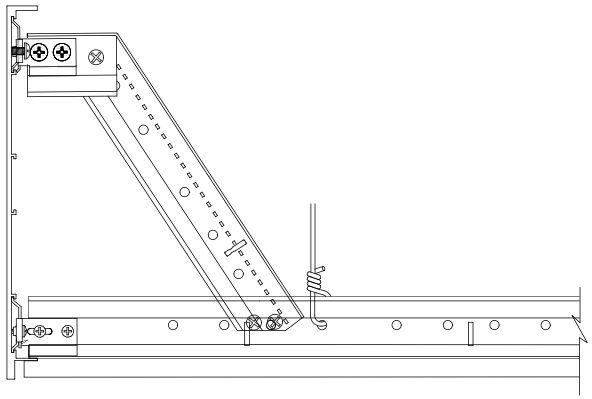


(Fig 5)

AX2HGC – Hanging Clip

4.8 Brace 10" and 12" Channel Trims

The 10" and 12" high profiles require diagonal bracing to keep the face of the trim vertical. The spacing of this bracing will be dependent on the layout of the Axiom trim. Straight sections should be braced every 4'. Radius sections will require less bracing as the radius becomes smaller. Fabricate the braces from the T-Bar suspension system and attach to the trim as shown below. ***(Fig 6)***

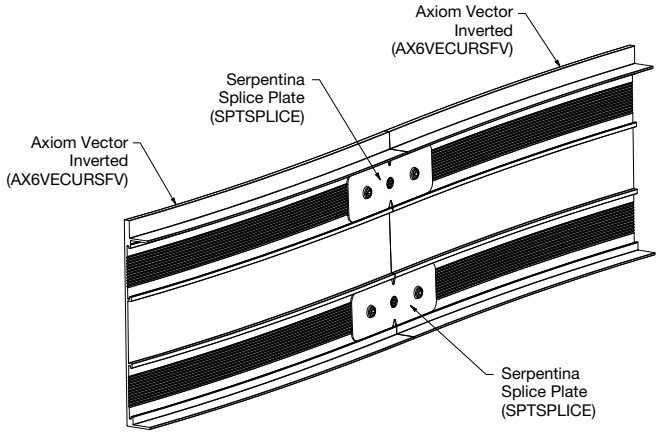


(Fig 6)

5. FOR VERTICAL CURVING APPLICATIONS

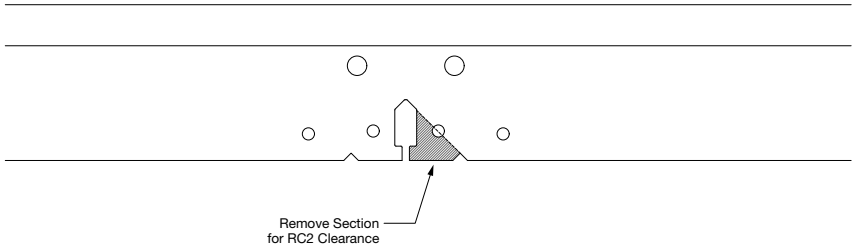
5.1 Reference faceted installation instructions for acoustical or Metalworks™ Linear applications.

5.2 SPTSplice is used to splice vertical curved Axiom® trim pieces together. SPTSplice should be used in each channel trim boss. ***(Fig 7)***



(Fig 7)

5.3 If using support hanger to strengthen perimeter cross tees to support perimeter trim, the RC2 clip may require additional clearance. Remove additional material from the support hanger bulb knockout. ***(Fig 8)***



(Fig 8)

6. FINAL DETAILING

6.1 Check and adjust the alignment of Axiom® components and ceiling panels.

6.2 Clean exposed surfaces as required. Painted Axiom components may be wiped down with a mild household cleaner to remove fingerprints, oil, etc.

6.3 Touch up painted components as required.

6.4 For light cove applications, a white latex chalk or tape should be applied to the inside of all seams, if light leaks are apparent.

MORE INFORMATION

For more information, or for an Armstrong 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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