

# Axiom® Building Perimeter System Lutron® Compatible Shade Pockets

## Assembly and Installation Instructions

### 1. GENERAL

#### 1.1 Description

The Axiom Building Perimeter System (AXBPS) is a pre-engineered perimeter solution to accomplish the transition between the interior of a building's perimeter and the ceiling plane. This system will consist of multiple extruded parts that interlock to form the perimeter compatible with most of the Armstrong® acoustical and drywall suspension systems.

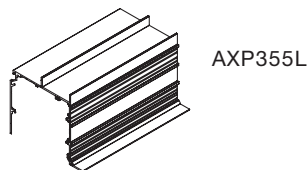
Perimeter components can incorporate drapery pockets, window shades, and air diffusers while also providing a solution for ceiling elevation changes at the perimeter.

#### **Component Descriptions:**

##### **Lutron® Compatible Shade Pocket options**

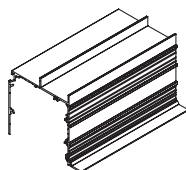
Aluminum profiles with distinct architectural detail create a 3-sided pocket with special bosses to accept a T-Bar connector clip and splice plate to provide a positive mechanical lock with no visible fasteners. Pockets can work directly with the ceiling system or can be installed in an exposed application.

##### **Motorized Shade Pockets for Attachment with 2-1/2" Studs**



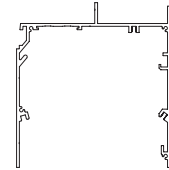
AXP355L

3-Sided Lutron Compatible Shade Pocket  
with Acoustical Flange



AXP355LS

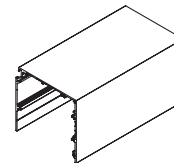
3-Sided Lutron Compatible Shade Pocket  
with Seismic Flange



AXP355LC

3-Sided Lutron Compatible Shade Pocket  
with Connection to Extension/Face Plate

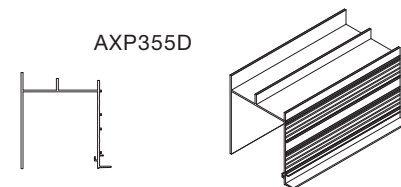
##### **Motorized Shade Pockets for Attachment with 2-1/2" Studs**



AXP355LE

3-Sided Exposed Lutron  
Compatible Shade Pocket

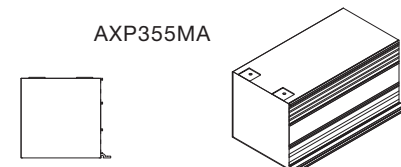
##### **Manual Shade Pockets for Attachment with 2-1/2" Studs**



AXP355D

3-Sided Shade Pocket  
with Drywall Flange

##### **Manual Shade Pockets for Traditional Framing**



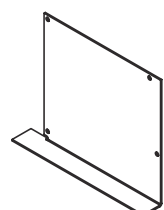
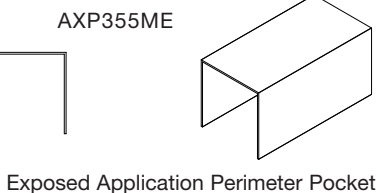
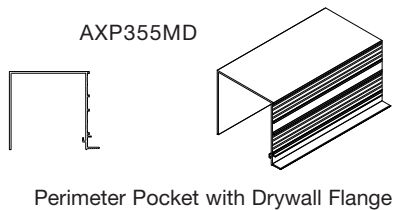
AXP355MA

Perimeter Pocket  
with Acoustical Flange

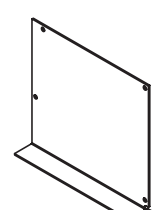
 **LUTRON®**  
Shading Solutions

Inspiring Great Spaces®

 **Armstrong®**  
CEILING SOLUTIONS

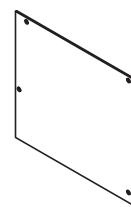


AXP355LSECR



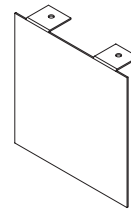
AXP355LSECL

#### Compatible End Cap for AXP355LE & AXP355LC



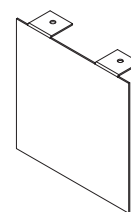
AXP355LEEC

#### Compatible End Cap for AXP355D



AXP355DEC

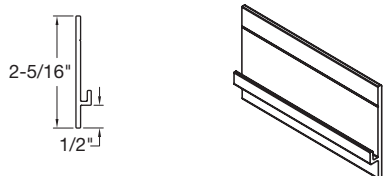
#### Compatible End Cap for AXP355MA, AXP355MD, AXP355ME, and AXP355MS



AXP355MEC

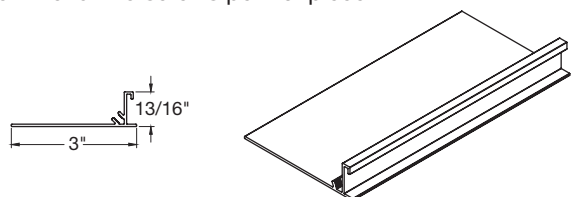
#### Perimeter Wall Clip

A wall clip (AXPWCCP2) is available for attachment to an exterior wall or window mullions. This component comes in a 2" width. Clips are designed to support the pocket and are maximum 48" centers. Added support may be required as noted later in this document.



#### Closure Clip

The aluminum closure clip helps to conceal the roller shade once installed. This clip provides an integrated screw slot for use with tether as required. The tether is provided as an option from Lutron. For the acoustical or seismic pocket, you may choose to insert a screw through the pocket wall from the outside just above the closure clip to hold it in place. We recommend two screws per 10' piece.

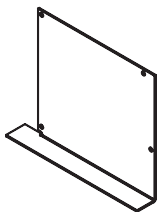


#### End Caps

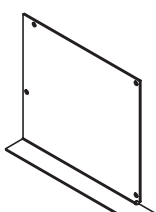
Axiom® Building Perimeter System Lutron® Compatible Shade Pockets are available with end caps. Screws are provided for easy installation.

#### Compatible End Caps for AXP355L

These end caps have a flange and are designated as either right-handed or left-handed.



AXP355LECR



AXP355LECL

#### Compatible End Caps for AXP355LS

These end caps have a flange and are designated as either right-handed or left-handed.

See Axiom Building Perimeter System Lutron® Compatible Shade Pockets data page for the complete component list, identification, and description (BPCS-5159).

AXBPS components are available in 10' long straight sections for field fabrication and assembly. This system may require field cutting and mitering. These cuts are best made using an appropriately sized sliding compound miter saw fitted with a carbide tipped blade designed for cutting non-ferrous metals.

AXBPS can be ordered as a custom fabricated assembly. Field fabrication for custom orders is limited to component assembly and minor adjustments to accommodate differences between design dimensions and actual field conditions.

These instructions are divided into sections detailing material delivery and identification, component assembly, suspended pocket and direct-applied pocket applications, and seismic installations.

Please carefully review all appropriate sections before proceeding with installation.

## 2. MATERIAL DELIVERY AND IDENTIFICATION

Standard AXBPS components are delivered in full carton quantities. All hardware and instructions to assemble AXBPS will be included in the packaging. Refer to the job site shop drawings for specific AXBPS details and components. Identify all parts listed on the drawings and verify they are delivered to the site before starting the installation.

Exercise appropriate care to protect the finished surfaces of the trim.

### (Custom Orders)

Custom Axiom Building Perimeter System orders will be shipped with detailed shop drawings. Please refer to these details for parts list and identification.

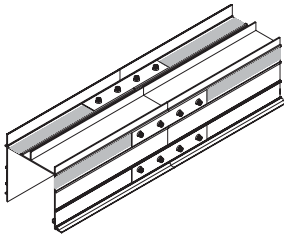
Review the shop drawings and packing slip to ensure that the complete order has been delivered to the site and to familiarize yourself with the layout of the installation.

## 3. COMPONENT ASSEMBLIES

### 3.1 Splice Plates

Steel splice plates are used to align and secure joints between sections of AXBPS trim. Each joint requires a splice plate at every set of channel bosses for the proper trim alignment. Join straight sections of AXBPS using the AX4SPLICE or AX4SPLICEB (4 screws) splice plate, depending on the part. Splice plates are secured to the trim sections using factory-installed setscrews. A 1/8" hex key is included with the hardware.

**CAUTION:** Do not over-tighten these screws. Apply only enough force to lock the components together. Over-tightening the screws can deform the exposed face of the channel trim.



#### Typical procedure

1. Insert splices into channel trim bosses
2. Close the joint
3. Tighten screws

**NOTE:** Splice plates can slide completely into the channel bosses and then slide into the adjoining section after trim is aligned. This will aid splice plate connections for the last piece or mitered intersections.

### 3.2 T-Bar Connector Clips

Axiom® T-Bar Connector Clips (AXTBC, AX-V-TBC) are used to attach the ceiling suspension systems to the AXBPS trim components.

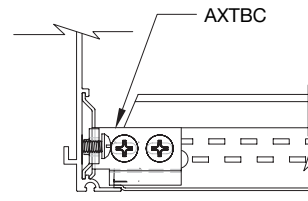
These two-piece steel clips are supplied as an assembled unit with the steel locking screw factory-installed. One clip is required at each location where the suspension system intersects the AXBPS trim.

There are two versions of the T-Bar Connector Clip:

1. AXTBC is used with drywall, lay-in, Tegular, concealed tile, and installations of Vector® panels that are all full size
2. AX-V-TBC is used with cut Vector panels

T-Bar Connector Clips are attached to the suspension system members using screws supplied by the installer. Framing screws (#6 x 7/16" or 1/2" long) are typical. Special conditions, such as open cell installations, may dictate the use of alternate methods of attachment, such as pop rivets.

See installation section for alignment of the AXTBC connector clip to the suspension system member.

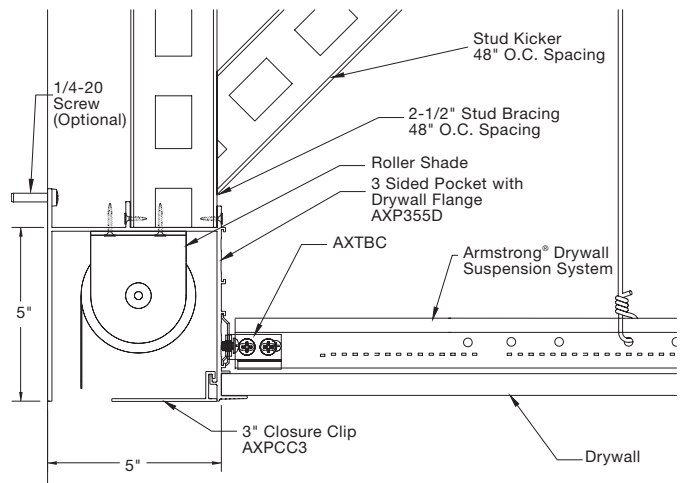


#### Typical procedure

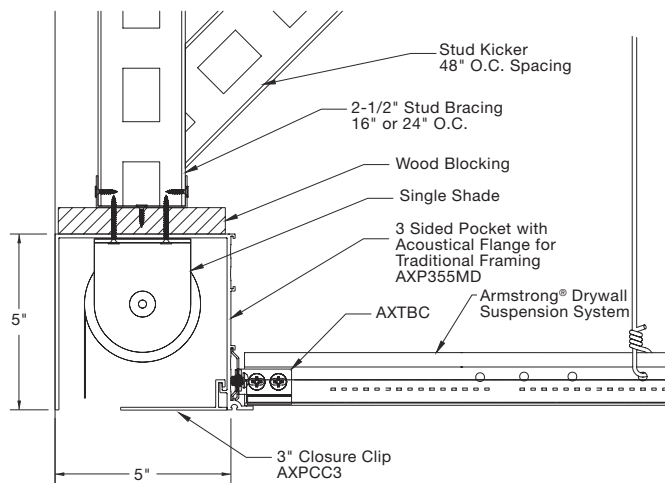
1. Cut suspension system to length
2. Attach clip to suspension system member
3. Engage clip in channel bosses and tighten locking screw

### 3.3 Drywall Flanged Pocket

For pockets that have an integrated drywall flange (AXP355D & AXP355MD), drywall trim can be fastened using standard drywall screws applied through the taping flange of the pocket into the drywall suspension system. The trim is finished using standard drywall materials and techniques.



AXP355D



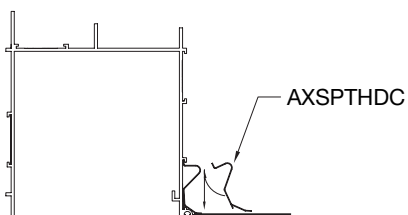
AXP355MD

#### Typical Procedure:

1. Attach the drywall suspension system to the pocket with an AXTBC clip
2. Attach 5/8" drywall to the system
3. Tape & finish drywall
4. Paint

### 3.4 Metal Panel Hold Down Clips

Metal panel hold down clips (AXSPTHDC) are used to secure the cut edges of metal ceilings at the AXBPS trim. Insert one clip for every foot of perimeter, or as needed to maintain contact between the panel edge and the flange of the trim.



#### Typical procedure

1. Install the metal panel
2. Insert the top of the clip into the channel first
3. Press up to compress the clip
4. Insert the bottom leg into the channel

### 3.5 AXBPS Perimeter Pocket Installation

The AXBPS pocket is the main component for the building perimeter trim system. The pocket is available for integration with an acoustical or drywall ceiling or there is an exposed version for installation below the ceiling.

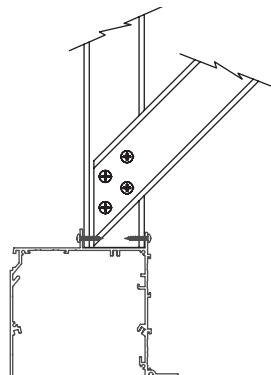
Items AXP355L, AXP355LS, and AXP355LC have an integrated sill track spaced to fit standard 2-1/2" metal studs for support or bracing to structure. The pockets have two options for mounting to the structure – free-floating from the wall or direct attached to the wall.

**NOTE:** Mechanically fastened connections at all locations are critical to the system support. Failed, damaged, or stripped fasteners must be replaced. Follow the fastener manufacturer's installation recommendations.

### 3.6 AXBPS Perimeter Pockets for Attachment with 2-1/2" Studs – Free-Floating from Wall

This attachment method is for the following pockets: AXP355L, AXP355LS, AXP355LC, and AXP355D.

**NOTE:** It is important the pockets be installed level within 1/16" over 15' for roller shade applications.



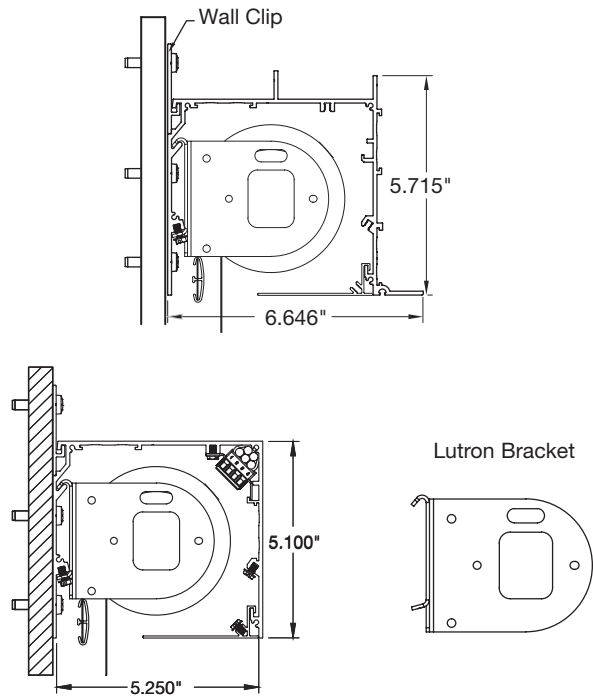
#### Typical procedure

1. Fasten a 2-1/2" track or wood blocking to the structure directly above the AXBPS perimeter pocket track location. Use appropriate fasteners along the track to carry the weight of the AXBPS.
2. Cut nominal 2-1/2" metal studs to fit between the structure track and the AXBPS pocket track.
3. Use a laser or leveling device and temporarily secure the AXBPS pocket to several studs with clamps or vice grips.
4. Use sheet metal screws, type #8 x 1/2" framing screw, to attach both sides of the stud to the AXBPS track.
5. Studs should be located every 48" inches along the track or as required by local authorities.
6. Use diagonal bracing to structure as needed to maintain the correct alignment of the AXBPS pocket.
7. Stud must be located within 6 inches of shade brackets. Brackets should not sit at interface of two pocket sections (e.g., at splice plate shown in section 3.1).

### 3.7 AXBPS Perimeter Pocket - Attached-to-Wall

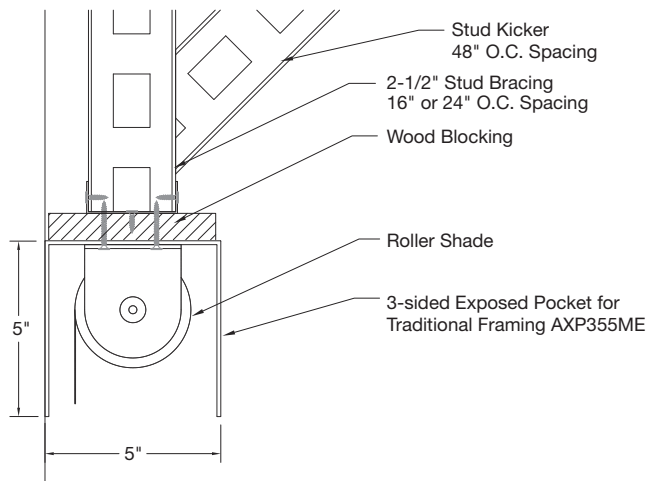
This attachment method is for the following pockets: AXP355L, AXP355LC, and AXP355LE.

Refer to the job plan to determine elevation of the AXBPS pocket. The pocket can be attached directly to the wall structure using the AXPWCCP2 (sold separately). Are there pre-drilled holes every 48" apart? Is there any extra bracing that is needed? Shim as needed to correct any wall irregularities. Attach the AXBPS Perimeter Pocket to the wall clip.



### 3.8 AXBPS Perimeter Pocket for Traditional Framing – Free Floating from Wall

The following pockets use traditional framing for attachment to structure. AXP355LE, AXP355MA, AXP355MD, AXP355MS, and AXP355ME.

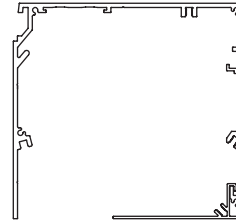


#### Typical Procedure:

1. Using stud framing, provide framing 16" or 24" O.C. Attach to the track as shown in the drawing below.
2. Attach 3/4" plywood blocking the width of the pocket
3. The height of the wood blocking should be the finished ceiling height minus the custom pocket height. Shimming will be required to level the pocket.
4. Once the framing is complete, lift the pocket into place and screw from the interior side of the pocket to hold the pocket in place.
5. Attach the suspension to the AXTBC clip and insert it into the perimeter bosses.

### 3.9 Perimeter Closure Clip

We offer a 3" Closure Clip (AXPCC3L) that fits inside the room side of the pocket to close off or reduce the opening of the pocket. The closure clip comes 10' long. The following pockets can be used with the closure clip: AXP355L, AXP355LC, AXP355LE, AXP355LS, AXP355D, AXP355MA, AXP355MD, and AXP355MS.

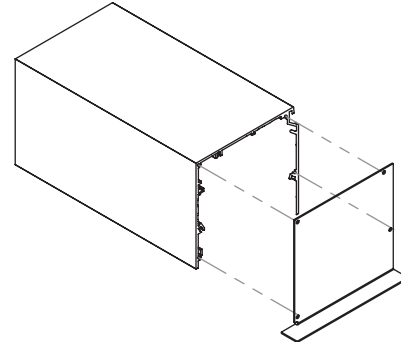


#### Typical Procedure

1. Use a full-length section or field cut as required.
2. Closure clip joints must be staggered or offset from the pocket joint by a minimum of 12" for strength and proper system alignment.
3. Install all hardware inside the pocket before installing the closure clip.
4. Insert the closure clip top hook into the channel on the inside of the pocket.
5. Lower the closure clip until the hooks engage and rest against the inside of the pocket.

### 3.10 Axiom® Perimeter End Plates

Use the end plate to close off the AXBPS pocket at open ends to conceal curtain ends, seal the pocket at partition walls, or as needed.

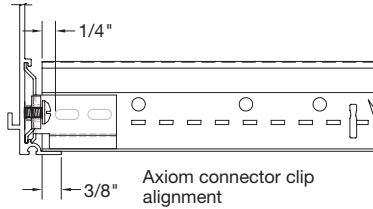


#### Typical Procedure

1. Fit end cap into the pocket with the attachment flange against the top.
2. Secure the end cap with self-drilling sheet metal screws (included #8 x 1/2") through the clearance holes in the flange.

## 4. ATTACHING SUSPENSION SYSTEM TO AXBPS

AXBPS trim components are installed before the acoustical or drywall suspension systems. Most acoustical and drywall suspension systems will attach directly to all AXBPS trims. There are several options for the Axiom® connector clip used to attach the suspension system to the AXBPS trim. Carefully review these options for the systems you are installing.

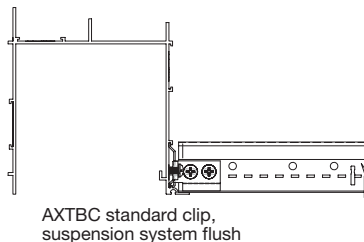


### Typical Procedure

1. Refer to the reflected ceiling plan for the suspension system layout.
2. Determine the size of the border panel next to the AXBPS trim.
3. Install the suspension system so the suspension system will rest 3/8" on the AXBPS trim flange.
4. Select the correct Axiom T-Bar Connector Clip (XTBC) for your suspension system option listed below.
5. Rest the bottom of the clip on the flange of the suspension system.
6. Attach the clips by aligning the end of the elongated hole 1/4" from the cut end of the suspension system and inserting a standard framing screw into the center of the slot.
7. Use a Phillips screwdriver to loosen the locking screw on the lower plate.
8. Engage the top ear of the connector clip under the boss of the AXBPS channel trim. Slide the lower leg downward to engage the lower boss on the trim and secure by tightening the locking screw.
9. Loosen the locking screw and adjust the clip as necessary to properly align the suspension system.
10. Insert a second framing screw through the other hole in each of the connector clips.

### 4.1 Axiom Connector Clip Options

**4.1.1 T-Bar suspension system for Prelude® XL® and Suprafine®** suspension systems will rest on the lower flange of the Axiom trim. For full-size Vector® panels, use standard XTBC.

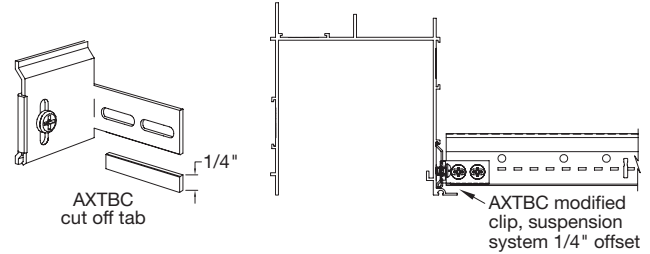


Follow steps 5 – 10 of typical procedure.

**4.1.2 Silhouette® XL®, Interlude® XL® HRC, and Sonata® XL®** (suspension systems with a 5/16" shoulder height), Tegular panels on Prelude® XL® or Suprafine with the panel face resting on the trim flange, and 5/8" concealed tile.

The suspension system must be held 1/4" above the AXBPS flange.

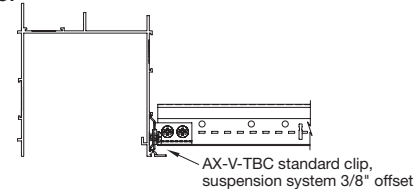
Modify the XTBC by cutting 1/4" off the bottom of the clip at the score line.



Follow steps 5 – 10 of typical procedure.

**4.1.3 MetalWorks™ Vector®** (cut panels) and 3/4" concealed tile – use standard AX-V-TBC.

The suspension system must be held 3/8" above the AXBPS flange.



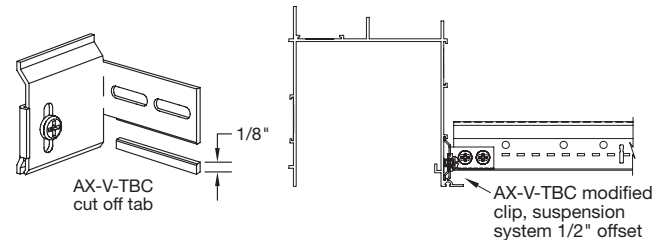
Follow steps 5 – 10 of typical procedure.

Use AXSPTHDC to hold down cut metal panel edges on AXBPS trim.

**4.1.4 Ultima®, Optima®, and WoodWorks® Vector®** (cut panels) – use AX-V-TBC.

The suspension system must be held 1/2" above the AXBPS flange.

Modify the AX-V-TBC by cutting 1/8" off the bottom of the clip at the score line.



Follow steps 5 – 10 of typical procedure.

## 5. AXBPS COMPONENT SUPPORT

The manufacturer requires that the AXBPS and the ceiling suspension systems be installed and supported in a manner that complies with all applicable codes and standards.

The following chart provides recommendations for support of AXBPS components:

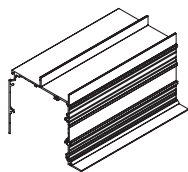
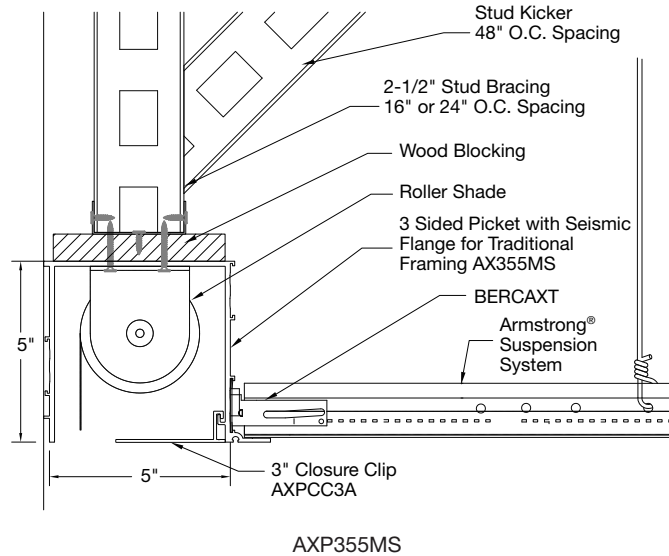
Pockets	Non-seismic	Seismic
Stud Spacing (floating pocket) for AXP355L, AXP355LC, AXP355D	4 ft O.C.	4 ft O.C.* or as required by local authority
Stud Spacing (floating pocket) for AXP355LE, AXP355MA, AXP355MD, AXP355MS	16" or 24" O.C.	16" or 24" O.C.
Minimum of 2 studs/2 hanger wires are required per section of trim. Mitered corner assemblies require one stud / hanger per assembly.		

\* 2' Stud spacing recommended

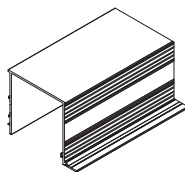
\*\* **Seismic Installations** – In severe seismic areas, professional design engineering is required for lateral force bracing. Floating AXBPS pockets require diagonal bracing to structure every 48" O.C. Seismic restraint requirements may require wires attached to each suspension system member within 8" of the cut end along the Axiom® Building Perimeter Trim. Stud must be located within 6" of shade brackets

### Seismic Components

All seismic AXBPS solutions (AXP355LS and AXP355MS) install the same way as similar standard pockets. The only difference is that the BERCAXT clip is used instead of the AXBTC clip.

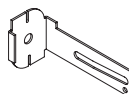


AXP355LS



AXP355MS

Beam End Retaining Clip for seismic installations (BERCAXT)



## 6. INSTALL CEILING PANELS, TILE, OR DRYWALL

**6.1** Cut and install tiles or panels using standard procedures for the specified products.

**6.2** Treat exposed cut edges of ceiling panels as detailed in the project specifications.

**6.3** For drywall applications, attach 5/8" gypsum panels to the suspension system per the manufacturer's recommendations.

## 7. FINAL DETAILING

**7.1** Check and adjust the alignment of the suspension system and ceiling panels.

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

**7.3** Touch up painted components as required. All painted custom Axiom shipments include a container of paint to be used for touch up.

## 8. SHADE INSTALLATION

Axiom® Building Perimeter System Lutron® Compatible Shade Pockets are designed to work with Lutron® Roller 100™ Shading System. The Axiom pocket eliminates the need for the Lutron sub-bracket. The Series 100 roller bracket can install anywhere along the two internal rails built into the pocket. Once in place, the brackets should be secured using the provided screws.

The pocket is compatible with the Roller 100 system, but not intended for use with just any Roller 100 bracket. Brackets have been designed for use with this pocket.

Visit [www.performanceshadingadvisor.com](http://www.performanceshadingadvisor.com) for more information on Lutron Performance Shading Solutions.

### Lutron Customer Service:

1-800-446-1503

## 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.

For the latest product selection and specification data, visit [armstrongceilings.com/lutron](http://armstrongceilings.com/lutron).

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