

# AXIOM® Indirect Field Light Coves

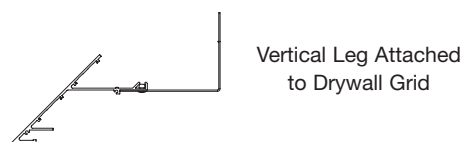
## Assembly and Installation Instructions

### 1. GENERAL

#### 1.1 Description

The Axiom® Indirect Field Light Cove system is a pre-engineered lighting solution designed to be used at a ceiling-to-wall condition or a ceiling-to-ceiling transition and integrate with Armstrong® acoustical or drywall ceiling systems. The system consists of an extruded aluminum component and a brake-formed sheet metal component, and is designed to integrate with Armstrong drywall grid and drywall to create the vertical leg of the light cove. Designed with a notched channel for perfect integration with Axis Lighting, Litecontrol or Vode Lighting.

**NOTE:** Axiom Indirect Field Light Coves are designed to integrate with Axis CovePerfekt™, Litecontrol ACOVE15AL, or Vode® ZipWave™ | LED | 707 light fixtures only.

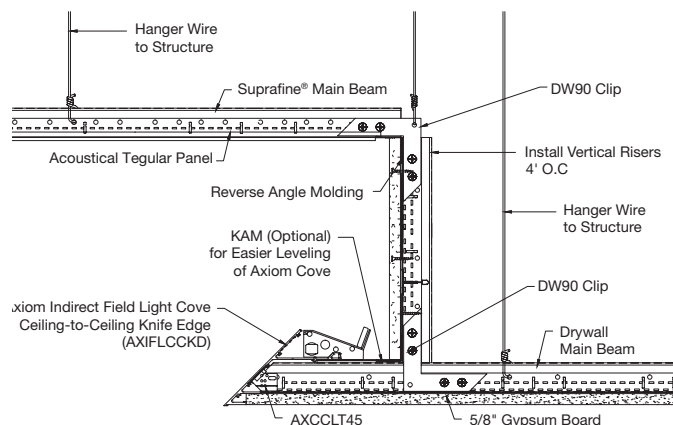


Component Description:

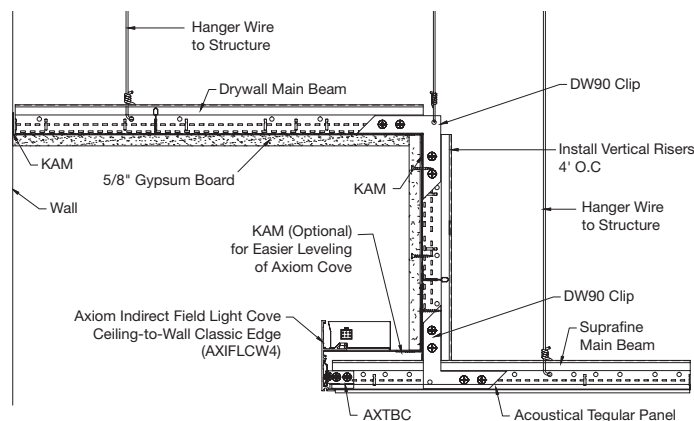
#### Axiom Indirect Field Light Coves:

Extruded aluminum face factory assembled with rigid sheet aluminum designed to integrate with Drywall Grid and drywall create a vertical leg, and forming an indirect light cove with distinct architectural features, creating a 2-sided light cove at the wall and at a ceiling-to-ceiling transition. Special bosses are provided to connect AXTBC T-Bar Connector Clips and AX4SPlice splice plates to provide positive attachment with no visible fasteners. There are two profile designs with face edge options to accommodate acoustical or drywall ceiling integration. The Knife Edge® trim option can be order with an acoustical or drywall flange where the Classic trim options only comes with an acoustical flange. Note the Axiom Bottom trim piece allows for easy drywall integration into the Classic trim option.

#### Ceiling-to-Ceiling Knife Edge

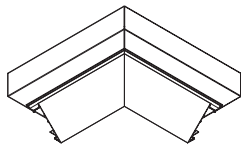


#### Ceiling-to-Wall Classic

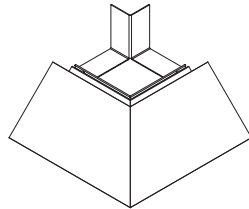


Axiom Indirect Light Cove corners can be ordered in both the knife edge and classic trim for both the ceiling to wall cove and the ceiling to ceiling cove. The pre-made factory finished inside and outside corners are made to match the trim option of the straight indirect field cove sections. Each corner section is 12" by 12" square (dimension taken on the face of the extrusion)

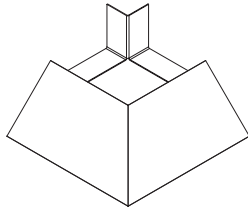
## CORNERS for Knife Edge® Profiles



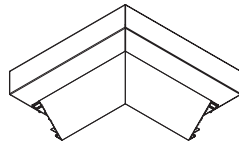
Ceiling-to-Ceiling  
Drywall Inside Corner



Ceiling-to-Ceiling  
Drywall Outside Corner

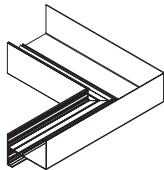


Ceiling-to-Wall  
Drywall Inside Corner

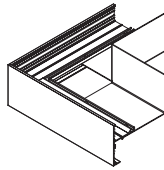


Ceiling-to-Wall  
Drywall Outside Corner

## CORNERS for Classic Profiles



Classic  
Ceiling-to-Ceiling  
Inside Corner



Classic  
Ceiling-to-Wall  
Inside Corner

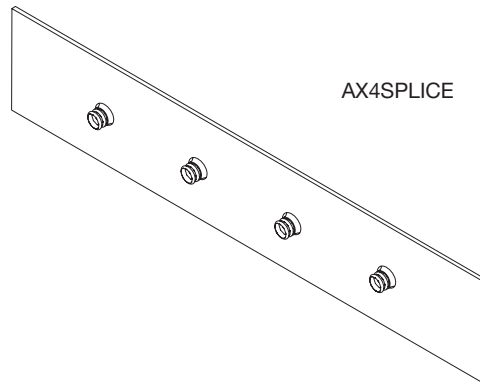
## 2. MATERIAL DELIVERY AND IDENTIFICATION

Axiom Indirect Field Light Coves are packaged and delivered in the quantities ordered. All hardware and instructions for assembly will be included in the packaging. Custom projects may include shop drawings as well. Identify all parts listed in the drawings and verify they are delivered to the site before starting the installation. Exercise care to protect the finished surfaces of the trim.

## 3. COMPONENT ASSEMBLY

### 3.1 Splice Plates

Steel splice plates are used to align and secure joints between sections of the light cove trim. Each joint requires a splice plate at every set of bosses for proper trim alignment. Join straight sections of cove together using the AX4SPLICE splice plate. Splice plates are secured to the trim sections using factory-installed setscrews. A 1/8" hex key is included with the hardware.



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

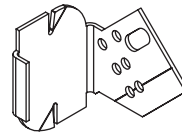
### 3.2 T-Bar Connector Clips

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

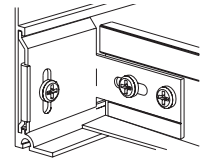
1. AXTBC is used with drywall, lay-in, Tegular, concealed tile, and installations of Vector® panels that are FULL or FAST SIZED tile. These are INCLUDED with each shipment.
2. AXCCLT45 is used with Axiom® Knife Edge® Light Cove trim.

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.

See general installation instructions for alignment of AXTBC or AXCCLT45 connector clip to the suspension system member.



AXCCLT45: Used with Axiom®  
Knife Edge® Trim



AXTBC: Provides positive  
mechanical lock with  
factory-installed screw

### Typical Procedure

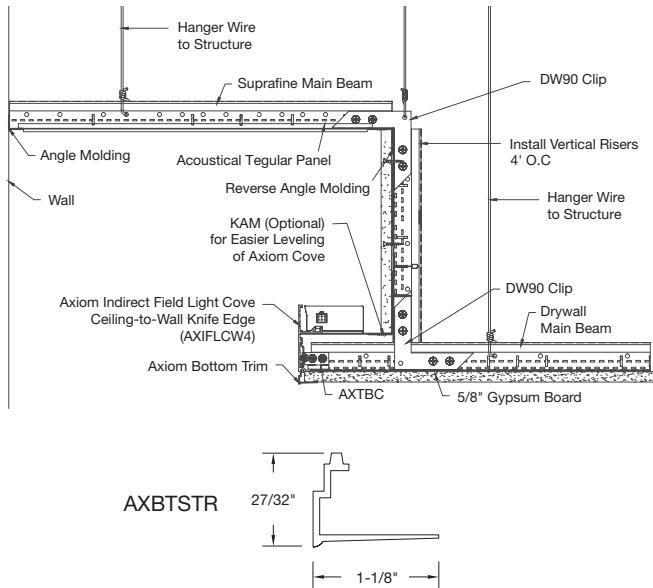
1. Cut suspension system to length.
2. Attach AXTBC clip to suspension system member.
3. Engage AXTBC clip in channel bosses and tighten locking screw.
4. For Axiom Knife Edge trim, use the AXCCLT45 clip.

See section 5.1 (Attaching to Suspension System) for alignment and installation methods for the AXTBC clip and associated suspension system components.

### 3.3 Drywall Trim

Drywall bottom trim (AXBTSTR) is added to finish the edges of 5/8" drywall applied to the bottom surface of the Axiom Indirect Field Light Cove with a classic face detail.

**NOTE:** For drywall applications with the Knife edge face detail order the Knife Edge Drywall (KD) edge detail. Drywall trim is fastened using standard drywall screws applied through the taping flange of the trim into the drywall suspension system. The trim is finished using standard drywall materials and techniques.



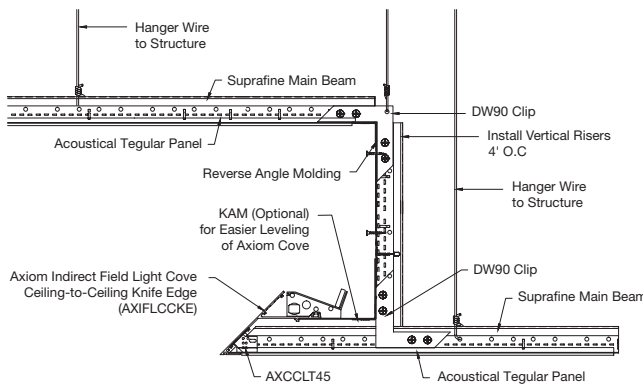
### Typical Procedure

1. Attach the drywall suspension system to the light cove trim with an AXTBC clip.
2. Install Axiom bottom drywall trim (AXBTSTR).
3. Attach 5/8" drywall to the system.
4. Tape and finish drywall.
5. Paint.

## 4. GENERAL INSTALLATION INSTRUCTIONS

### 4.1 Axiom Indirect Field Light Cove Installation

The pocket is the main component of the Axiom Indirect Field Light Cove System.



### Typical Procedure for the Axiom Indirect Field Light Cove

1. Install the lower acoustical or drywall grid ceiling supporting main beams, cross tees, etc. as noted in its product specific installation instructions.
2. Install the upper acoustical or drywall grid ceiling supporting main beams, cross tees, wall attachment methods, etc. as noted in its product specific installation instructions.
3. Build the vertical rise of the indirect field light cove using drywall grid and two DW90 clips. The exact height of the vertical rise should match the dimension specified by the project specific architectural drawings.

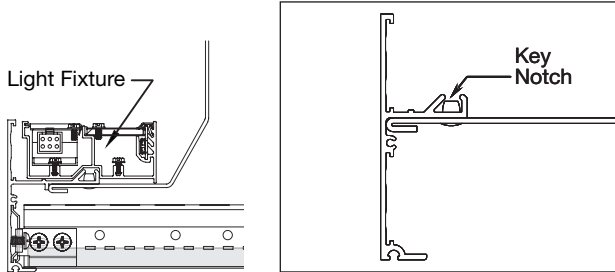
**NOTE:** The recommended minimum ceiling-to-ceiling or ceiling-to-wall elevation change is 6" (6-5/8" for Knife Edge Drywall).

1. Attached the DW90 clips to the drywall grid using two single point screws.
2. DW90 clip placement and orientation should be as shown on the detail in Section 4.1
3. **NOTE:** The bulb (top part) of the acoustical or drywall grid installed on the lower ceiling will have to be crimped to allow for a positive attachment of the DW90 clip.
4. Attached the drywall grid vertical risers to the upper and lower ceilings by attaching the DW90 clips to the grid components every 4' on center using single point screws.
5. (OPTIONAL) Using a laser level, install KAM against the vertical drywall grid riser. For Classic Edge and Knife Edge Acoustical edge details, the bottom of the KAM should be installed 2" above the bottom of the lower ceiling grid. For Knife Edge Drywall edge details the bottom of the KAM should be installed 1.75" above the bottom of the lower ceiling grid.
6. For attachment to an upper acoustical ceiling install reverse angle molding at the top of the drywall grid vertical riser. For attachment to an upper drywall grid ceiling install KAM at the top of the drywall grid vertical riser.
7. Attached the Axiom Field Cove to the front of the lower ceiling using the AXTBC or AXCCLT45 clips. The back of the Axiom Field cove should sit tight against the drywall vertical rise. If optional KAM's installed, this will help to level the cove. Screw attached the back of the Axiom Field cove to the drywall grid vertical riser using single point screws.
8. Install Drywall board against the drywall grid vertical risers using single point attachment screw. Mud, tape, sand and paint drywall as required to finished vertical rise per architectural specifications.
9. The cove can be supported with 12 gauge wire as shown in the above diagram. Hanger wires should be attached to the upper DW90 clip. Hanger wire spacing should not exceed 48". **NOTE:** 20 gauge studs are required in lieu of hanger wires in Seismic Design Category D, E, F areas and CBS hangers attached to black are required in NYC installations.
10. AX4SPLICE plates should be used to attach multiple sections of the Axiom Field cove together.
11. Axiom Field Covs are shipped in 10' straight lengths and as 12"x12" corners. Straight lengths of the Axiom Field Cove can be cut to size in the field using a 12" compound miter saw.

## 5 INSTALLING COMPATIBLE LIGHT FIXTURES

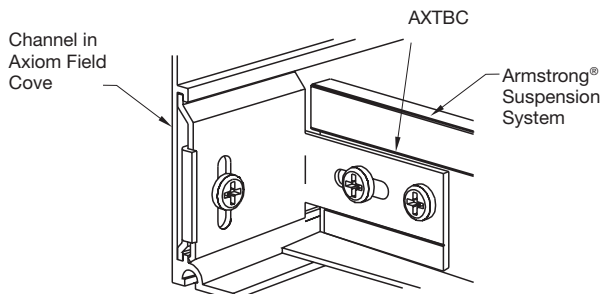
Axiom® Indirect Field Light Coves are designed to work exclusively with Axis CovePerfekt™, Litecontrol ACOVE15AL, or Vode® ZipWave™ | LED | 707 light fixtures only. Please refer to the lighting manufacturer's specific installation instructions for details on light installation.

**NOTE:** A key notch is located in the cove and the compatible lighting fixture to ensure proper alignment.



### 5.1 Attaching to Suspension System

Axiom Field Light Coves are installed before acoustical or drywall suspension systems. Most acoustical and drywall systems will attach directly to the light cove. There are several options for the Axiom connector clip used to attach the suspension system to the cove. Carefully review these options based on 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 Axiom Light Cove.
3. Install the suspension system so it will rest 3/8" on the light cove flange.
4. Select the correct Axiom T-Bar Connector Clip (AXTBC or AXCLT45) for your suspension system.
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 cove channel trim. Slide the lower leg downward to engage the lower boss on the trim and secure by tightening and locking the 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.

## 5.2 Axiom® Connector Clip Options

**5.2.1 Prelude® XL® and Suprafine® T-Bar suspension systems** will rest on the lower flange of the light cove. Prelude and Suprafine suspension systems are used with flat lay-in and some Tegular applications. For a T-Bar suspension system that will rest on the lower flange of the Axiom trim, use AXTBC Connector Clip.

**5.3 Silhouette® XL®, Interlude® XL® HRC, and Sonata® XL®** (systems with 5/16" shoulder height) will require the clip to be modified to be held 1/4" above the light cove flange. Modify the clip by cutting 1/4" off the bottom of the clip at the score line. This can be done with a regular pair of snips.

Silhouette XL, Interlude XL HRC, and Sonata XL suspension systems (with a 5/16" shoulder height), use Tegular panels with the panel face resting on the trim flange, and 5/8" concealed tile – use AXTBC Connector Clip.

## 6. AXIOM INDIRECT FIELD LIGHT COVE COMPONENT SUPPORT

The manufacturer requires the Axiom Field Light Cove and ceiling suspension system be installed and supported in a manner that complies with all applicable codes and standards.

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

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

**7.2** Treat exposed cut edges of ceiling panels as detailed in the product specifications.

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

## 8. FINAL DETAILING

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

**8.2** Clean exposed surfaces as required. Painted Axiom components may be wiped down with rubbing alcohol or a mild soap solution to remove fingerprints, oil, etc.

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

## 9. SEISMIC INSTALLATION

**9.1** Axiom Indirect Light Coves and Axis CovePerfekt™, Litecontrol ACOVE15AL, and Vode® ZipWave™ | LED | 707 light fixtures are all suitable for Seismic Design Category D, E, F installations.

Ask your Armstrong Installation Specialist for bracing requirements.

## 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/fieldcoves](http://armstrongceilings.com/fieldcoves)

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