Axiom® Indirect Light Coves

Assembly and Installation Instructions

1. GENERAL

1.1 Product Description

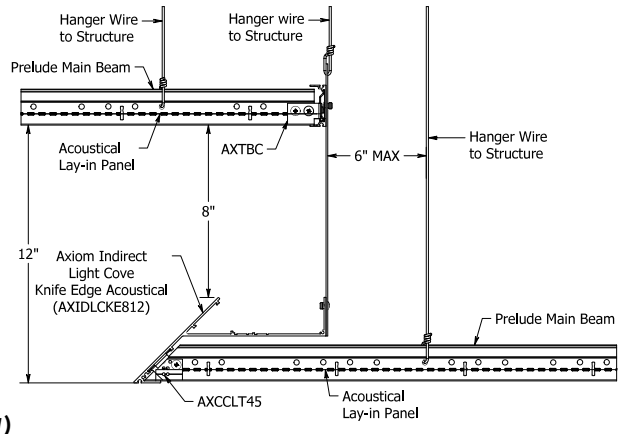
The Axiom® Indirect Light Cove system is a pre-engineered lighting solution designed to be used at a wall condition or a ceiling transition and integrate with Armstrong® acoustical or drywall ceiling systems. The system consists of an extruded aluminum component and a brake-formed sheet metal component, and the coves allow light fixtures to be placed independently. It is designed with a set of alignment grooves to accommodate the Axiom Light Fixture Alignment Clip (ALFAC) that accepts pre-engineered lights manufactured and provided by Axis Lighting, Litecontrol, or Vode® Lighting.

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

1.2 Component Description

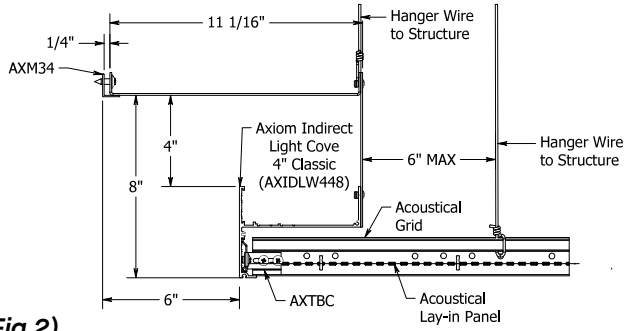
Axiom Indirect Light Coves

Extruded aluminum face factory assembled with rigid sheet aluminum to form 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 varying elevations and face edge options to accommodate most situations – Ceiling coves and Wall coves. Both coves have Knife Edge® and Classic trim options. The Ceiling coves can be ordered with a 12" or 14" elevation. The Wall coves can be ordered with an 8" or 10" elevation change. Additional Ceiling cove elevations and plenum air slot openings for Ceiling and Wall coves can be requested as a custom option. ***(Figs 1 and 2)***.



(Fig 1)

Ceiling Indirect Light Cove- Knife Edge®



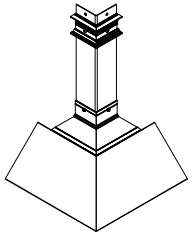
(Fig 2)

Wall Indirect Light Cove - Classic

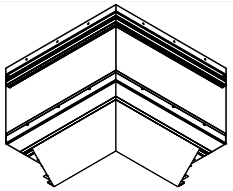
Armstrong®
World Industries

Pre-manufactured Corners

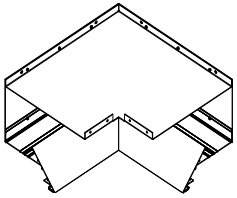
Axiom® Indirect Light Cove corners can be ordered in both the knife edge and classic trim for both ceiling and wall applications. The pre-made factory finished inside and outside corners are made to match the elevation of your straight indirect cove sections, and include the same alignment grooves to accept the ALFAC, when needed. Each corner section is 12" by 12" square (dimension taken on the face of the extrusion) ***(Fig 3)***.



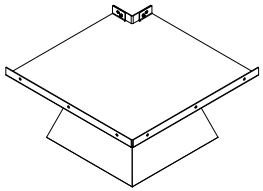
Knife Edge® Ceiling Inside Corner



Knife Edge® Ceiling Outside Corner



Knife Edge® Wall Inside Corner



Knife Edge® Wall Outside Corner

(Fig 3)

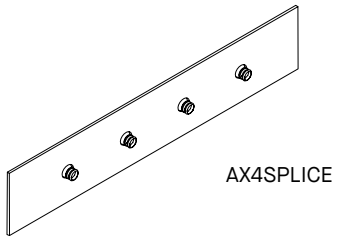
2. MATERIAL DELIVERY AND IDENTIFICATION

Axiom Indirect 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 ***(Fig 4)***.



AX4SPLICE

(Fig 4)

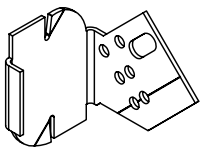
NOTE: Splice plates can slide completely into the channel bosses and then slide into the adjoining section after the cove is aligned. This will aid splice plate connections for the last piece.

3.2 T-Bar Connector Clips

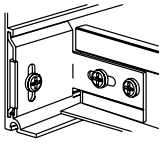
There are two versions of the T-Bar Connector Clip:

- AXTBC is used with drywall, lay-in, Tegular, concealed tile, and installations of Vector® panels that are FULL SIZED tile. These are INCLUDED with each shipment.
- AXCCLT45 is used with Axiom® Knife Edge® Light Cove trim.
- AX-V-TBC is used with CUT Vector panels. These will need to be ordered separately.

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, AXCCLT45, or AX-V-TBC connector clip to the suspension system member ***(Fig 5)***.



AXCCLT45: Used with Axiom Knife Edge Trim



AXTBC: Provides positive mechanical lock with Factory-installed screw

(Fig 5)

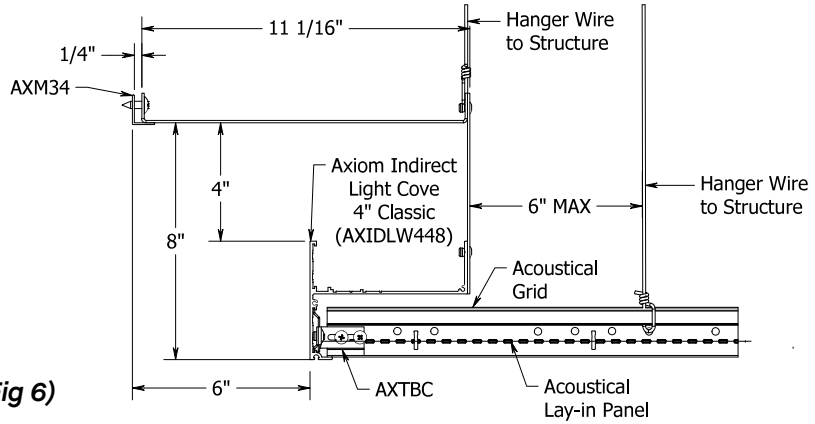
Typical Procedure

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.

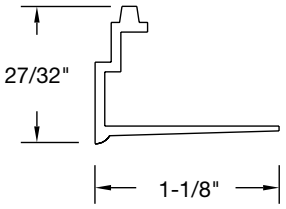
See section 5.1 (Attaching to Suspension System) for alignment and installation methods for the AXTBC clip and associated suspension system components.

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 Light Cove. 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 ***(Figs 6 & 7)***.



(Fig 6)



(Fig 7)

AXBTSTR

Typical Procedure

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

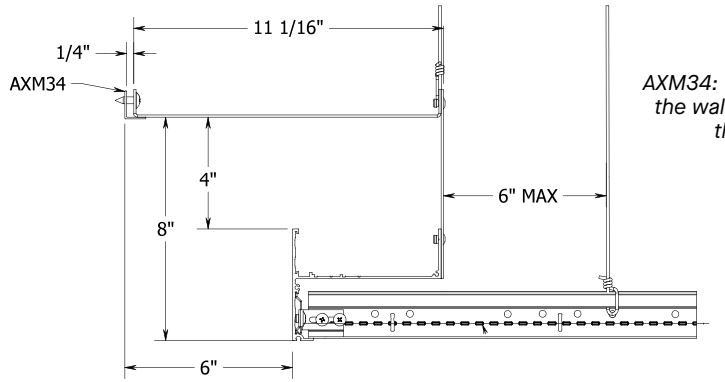
Tapable Flange Installation

1. Install the moldings after the gypsum board is mounted in place.
2. Provide backing so that the moldings may be attached with #6 drywall screws 16" O.C. for horizontal applications.
3. Prior to taping, the attachment flanges should be cleaned using a non-abrasive cleaner and soft rag. When veneer plaster is specified, the flanges must be treated with a bonding agent.
4. Be sure the tape does not overlap the edge of the reveal and an 8" wide trowel is used to apply the final skim coat.

NOTE: Fiberglass self-adhesive drywall tape with a setting-type joint compound are required for joint finishing. To further ensure proper joint treatment adhesion, lightly sand the taping flange or use a bonding agent (i.e. plaster weld or spray adhesive) before applying joint compound to reduce the possibility of cracking.

3.4 Axiom Straight Wall Molding (AXM34)

Used with Wall Indirect Light Coves ***(Fig 8)***.



AXM34: Used to attach the wall light cove to the wall.

(Fig 8)

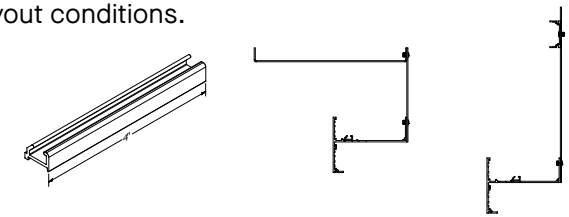
3.5 Axiom® Light Fixture Alignment Clip (ALFAC)

Field installed alignment clip to ensure perfect positioning of Axis CovePerfekt™ or Vode® ZipWave™ light fixtures in wall and ceiling cove applications ***(Fig 9)***.

Typical Procedure

1. Remove adhesive backing on the clip.
2. Place into front alignment grooves (open side) for wall applications and rear alignment grooves (wall side) for ceiling applications.
3. Minimum two clips per fixture. Add additional clips as needed for layout conditions.

(Fig 9)

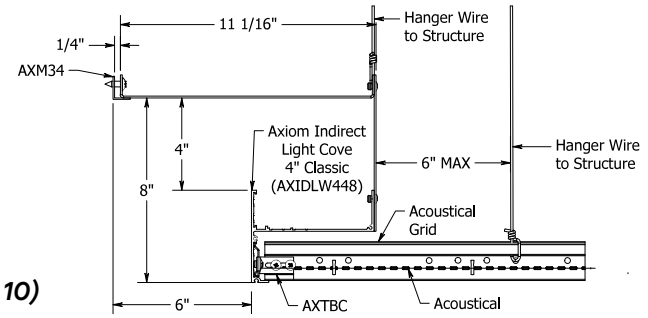


4. GENERAL INSTALLATION INSTRUCTIONS

4.1 Axiom Light Cove Installation

The pocket is the main component of the Axiom Indirect Light Cove System. In cases where the pocket can be directly attached to the wall structure, you may need to shim to correct any irregularities ***(Fig 10)***.

(Fig 10)



Typical Procedure for the Wall Light Cove

1. Attach AXM34 wall molding to the wall structure with appropriate fasteners. Shim as required.
2. Pre-drill clearance holes every 16" to 24", or as needed, along the wall molding.
3. Use a laser to level the wall molding along the wall and secure it to the blocking every 16" to 24", or as required.

4a. The cove can be supported with 12 gauge wire as shown in the above diagram. Hanger wires should be attached to the light cove and ceiling suspension system and shall be within 6" of the light cove. 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.

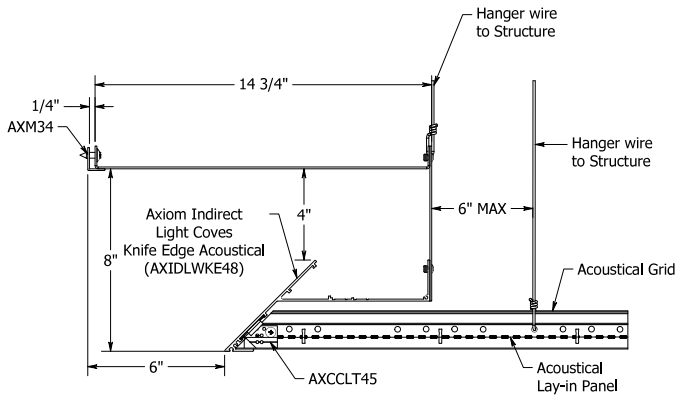
4b. CBS hangers can be used for NYC installations. CBS hangers shall be within 12" of the light cove.

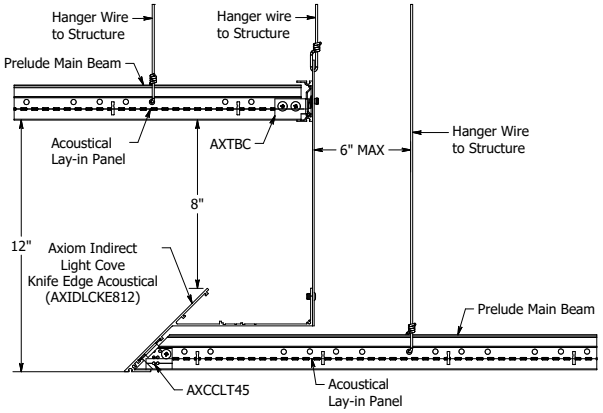
5. AX4SPLICE plates should be used to attach multiple sections of the Axiom Indirect Light Coves together.
NOTE: Inserting a short section of hanger wire into the screw slots at the end of the profile and sliding it into an adjoining section can help ensure the cove is properly aligned and minimized the gaps in the finished product.
6. Leave a 1/4" gap between the light cove and the wall molding to accomodate for variations in wall flatness.

Typical Procedure for the Wall Light Cove Corners

1. Attach the AXM34 wall molding to the wall structure with appropriate fasters. Use a laser to level the wall molding along the wall and secure it to blocking every 16"-24" as required, pre-drill holes in wall molding as needed. Shim as required.
2. The light cove can be support with 12 gauge wires attached to structure. Hanger wires shall be attached to the light cove and ceiling suspension system and shall be within 6" of the light cove.
3. The Wall light cove corner should be installed before the Wall light cove straight sections ***(Fig 11)***.

(Fig 11)





(Fig 12)

Typical Procedure for the Ceiling Light Cove

1. Pre-drill hanger holes every 48" as required, or use the slots in the sheet metal along the top of the light cove (above the extrusion) as shown in the above drawing. ***(Fig 12)***.
2. Hang wires to structure at least every 48".
3. Using a laser level, bend wires at the appropriate height and hang light cove. Hanger wires should be attached to the light cove and the ceiling suspension system and shall be within 6" of the light cove.
   NOTE: 20 gauge studs are required in lieu of hanger wires in Seismic Design Category D, E, F areas.

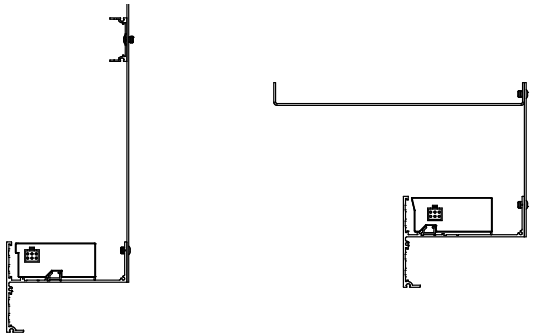
Typical Procedure for the Ceiling Light Cove Corners

1. Pre-drill hanger holes every 48" as required, or use the slots in the sheet metal along the top of the light cove.
2. Using a laser level, bend wires at the appropriate height and hang light cove corner. 12 gauge hanger wires should be attached to the light cove and the ceiling suspension system.
3. The Ceiling light cove corners can be installed before or after the Ceiling light cove straight sections, dependent on field conditions.

5. INSTALLING COMPATIBLE LIGHT FIXTURES

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

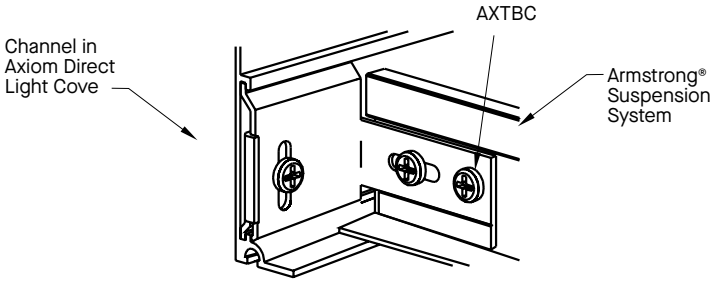
NOTE: Alignment grooves are located in the cove to position the ALFAC for ceiling and wall cove applications to ensure proper alignment of the compatible lighting fixture. ***(Fig 13)***.



(Fig 13)

5.1 Attaching to Suspension System

Axiom Indirect 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 ***(Fig 14)***.



(Fig 14)

AXTBC - TEE-BAR CONNECTION

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 AXCCLT45) for your suspension system (AX-V-TBC Connector Clip should be used with cut Vector® border panels or AXCCLT45 for use with Axiom® Knife Edge® Light Cove profiles).
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 LIGHT COVE COMPONENT SUPPORT

The manufacturer requires the Axiom 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

7.1 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 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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