AXIOM® Indirect Field Light Coves

Assembly and Installation Instructions

1. GENERAL

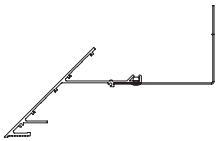
1.1 Product Description

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 Ceilings acoustical or drywall ceiling systems. The system consists of an extruded aluminum component and a brake-formed sheet metal component, which integrates 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. Curved options available in 4" classic. Curved light coves do not have key notches to allow the lights to be placed independently.

NOTE: Axiom Indirect Field Light Coves are designed to integrate with Axis CovePerfekt™, i2System Compose™ Litecontrol ACOVE15AL, or Vode® ZipWave™ | LED | 707 light fixtures only.

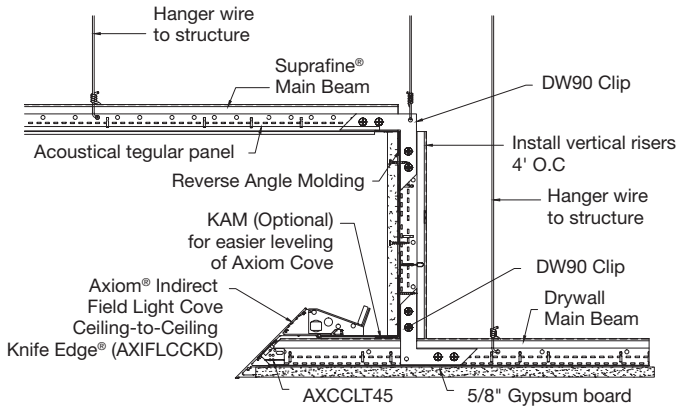
Component Description:

Axiom Indirect Field Light Coves:
Extruded aluminum face, factory-assembled with rigid sheet aluminum, creates a vertical leg, and forms an indirect light cove with distinct forming 2-sided light cove at the wall or 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. Axiom® Knife Edge® trim can be ordered with an acoustical or drywall flange, while Axiom® Classic trim is only available with an acoustical flange. ***(Figs 1 - 3)***



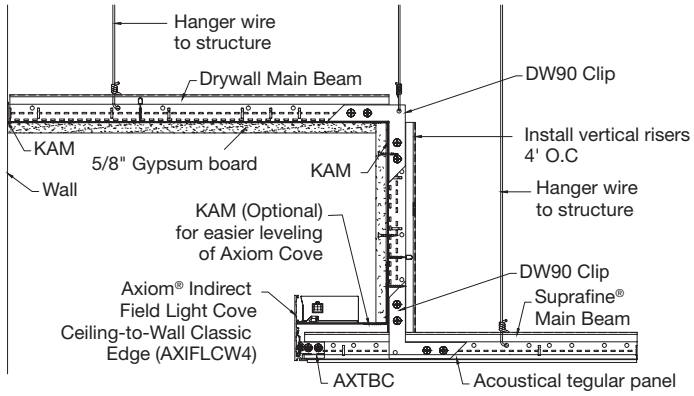
Vertical Leg Attached to Drywall Grid

NOTE: The Axiom bottom trim piece allows for easy drywall integration into Axiom Classic trim.



Ceiling-to-Ceiling Knife Edge®

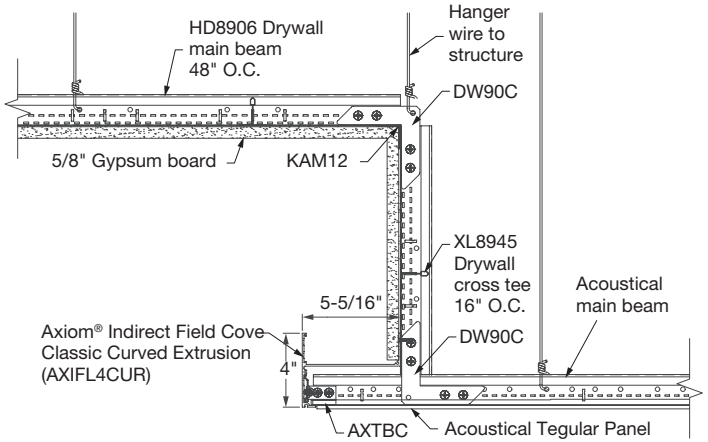
(Fig 1)



Ceiling-to-Wall Classic

(Fig 2)

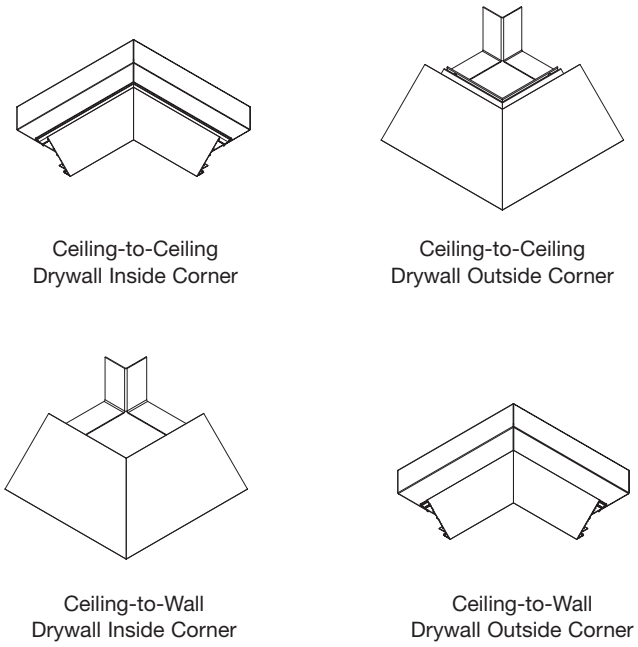
Armstrong®
World Industries



(Fig 3)

Axiom® Indirect Field Light Cove corners can be ordered in both Knife Edge® and Classic trim for both the ceiling-to-wall and the ceiling-to-ceiling coves. Pre-made factory-finished inside and outside corners are made to coordinate with the straight Indirect Field Light Cove sections. Each corner section is 12" by 12" square (dimension taken on the face of the extrusion). ***(Figs 4 & 5)***

Corners for Knife Edge® Profiles



Ceiling-to-Ceiling
Drywall Inside Corner

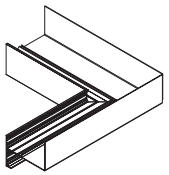
Ceiling-to-Ceiling
Drywall Outside Corner

Ceiling-to-Wall
Drywall Inside Corner

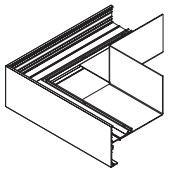
Ceiling-to-Wall
Drywall Outside Corner

(Fig 4)

Corners for Classic Profiles



Classic Ceiling-to Ceiling
Inside Corner



Classic Ceiling-to-Wall
Inside Corner

(Fig 5)

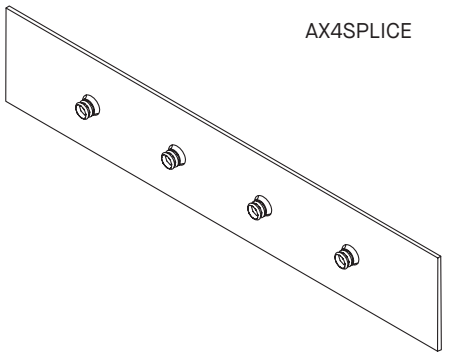
2. MATERIAL DELIVERY AND IDENTIFICATION

Axiom Indirect Field Light Coves are packaged and shipped in the quantities ordered. All hardware and instructions for assembly are 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 set screws. A 1/8" hex key is included with the hardware. ***(Fig 6)***



(Fig 6)

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

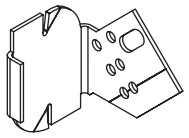
3.2 T-Bar Connector Clips

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 Made-to-Order. These are INCLUDED with each shipment.
2. AXCCLT45 is used with Axiom® Knife Edge® Light Cove trim.

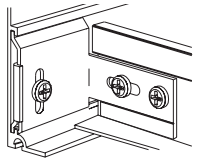
T-Bar Connector Clips are attached to suspension system members using screws supplied by the installer. Framing screws (#6 × 7/16" or 1/2" long) are typical.

See general installation instructions for alignment of AXTBC or AXCCLT45 connector clip to the suspension system member. ***(Figs 7 & 8)***



AXCCLT45: Used with Axiom® Knife Edge® Trim

(Fig 7)



AXTBC: Provides positive mechanical lock with factory-installed screw

(Fig 8)

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.

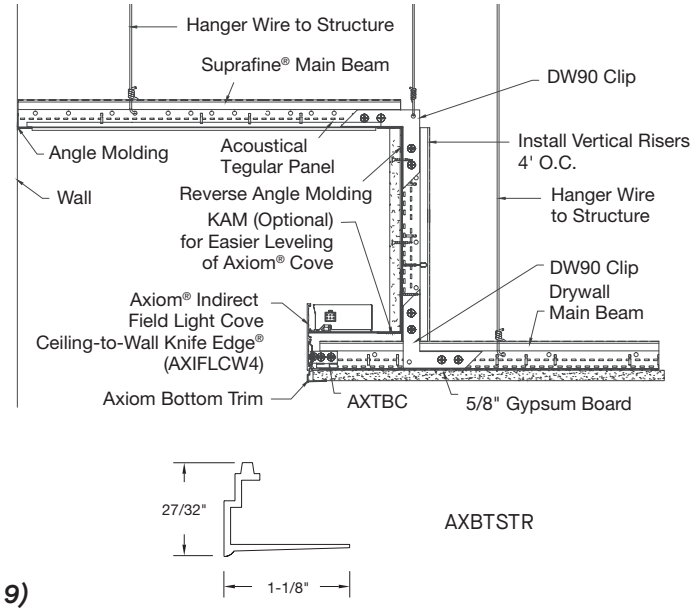
NOTE: For Axiom® Knife Edge® trim, use the AXCCLT45 clip.

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

Add drywall bottom trim (AXBTSTR) to finish the edges of 5/8" drywall and to the bottom surface of the Axiom Indirect Field Light Cove with classic face detail. ***(Fig 9)***

NOTE: For drywall applications with the Knife Edge face detail, order the Knife Edge Drywall (KD) edge detail. Fasten drywall trim using standard drywall screws through the taping flange of the trim into the drywall suspension system. Finish using standard drywall materials and techniques.



(Fig 9)

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

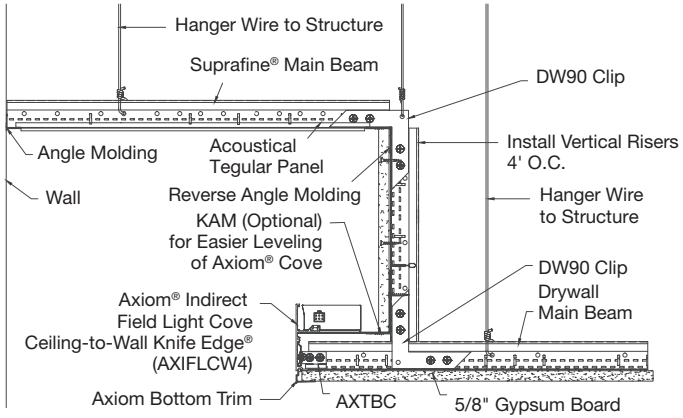
1. Install the moldings after the gypsum board is mounted in place.
2. Provide backing so that the moldings may be attached with #6 drywall screws 16" O.C. for horizontal applications.
3. Prior to taping, the attachment flanges should be cleaned using a non-abrasive cleaner and soft rag. When veneer 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.

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. ***(Fig 10)***



(Fig 10)

Typical Procedure for installing the Axiom Indirect Field Light Cove

1. Install the lower acoustical or drywall grid ceiling-supporting main beams, cross tees, etc. as noted in 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 product-specific installation instructions.
3. Build the vertical rise of the Axiom 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. Attach 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

NOTE: The bulb (top part) of the acoustical or drywall grid installed on the lower ceiling must be crimped to allow for positive attachment of the DW90 clip.

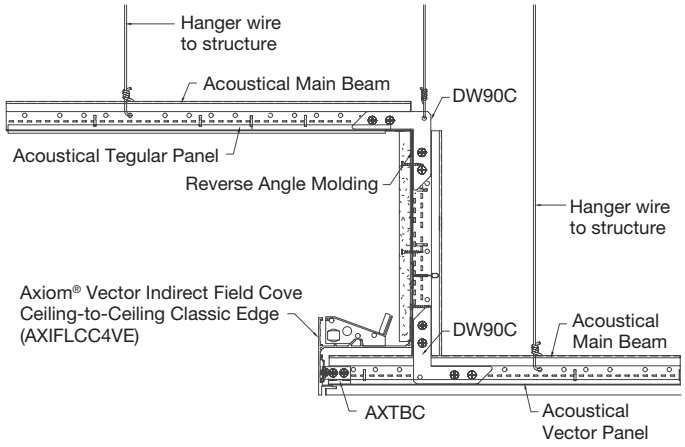
4. Attach the drywall grid vertical risers to the upper and lower ceilings by attaching the DW90 clips to the grid components every 4' O.C. using single point screws.
5. (OPTIONAL) Using a laser level, install KAM against the vertical drywall grid riser. For Classic and Knife Edge Acoustical edge trim 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 1-3/4" above the bottom of the lower ceiling gird.
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. Attach the Axiom® Indirect Field Light Cove to the front of the lower ceiling using the AXTBC or AXCCLT45 clips. The back of the Axiom Indirect Field Light Cove should sit tight against the drywall vertical rise. If optional KAM is installed, this will help to level the cove. Screw-attach the back of the Axiom Indirect Field Light 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 screws. 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 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. CBS hangers attached to black iron are required in NYC installations.

10. AX4SPLICE plates should be used to attach multiple sections of the Axiom Indirect Field Light Cove together.
11. Axiom Indirect Field Light Coves are shipped in 10' straight lengths and as 12" x 12" corners. Straight lengths of the Axiom Indirect Field Light Cove can be cut to size in the field using a 12" compound miter saw.

Indirect Field Light Cove for use with Vector® Panels

1. Refer to Optima®, Ultima®, Calla®, and Lyra® Vector® Assembly and Installation Instructions BPLS-297843.
2. Made-to-Order ceiling panels are required for any non-full-size ceiling panel applications along the Indirect Field Light Cove when Vector panels are used.



Vector Classic Edge – Ceiling-to-Ceiling

(Fig 11)

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 Indirect 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 OR DRYWALL

7.1 Cut and install ceiling 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 Field Light Coves, Axis CovePerfekt™, i2Systems Compose™, 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.

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