

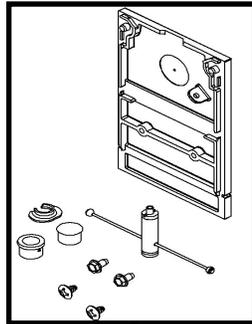
System Overview

These instructions review how to install TruGroove suspended fixtures. TruGroove 4ft, 6ft and 8ft modules can be installed as individual standalone units, or they can be joined together to create continuous runs. The graphics below show the components required to install a typical run of TruGroove suspended fixtures.

IMPORTANT: Read all instructions before beginning installation.

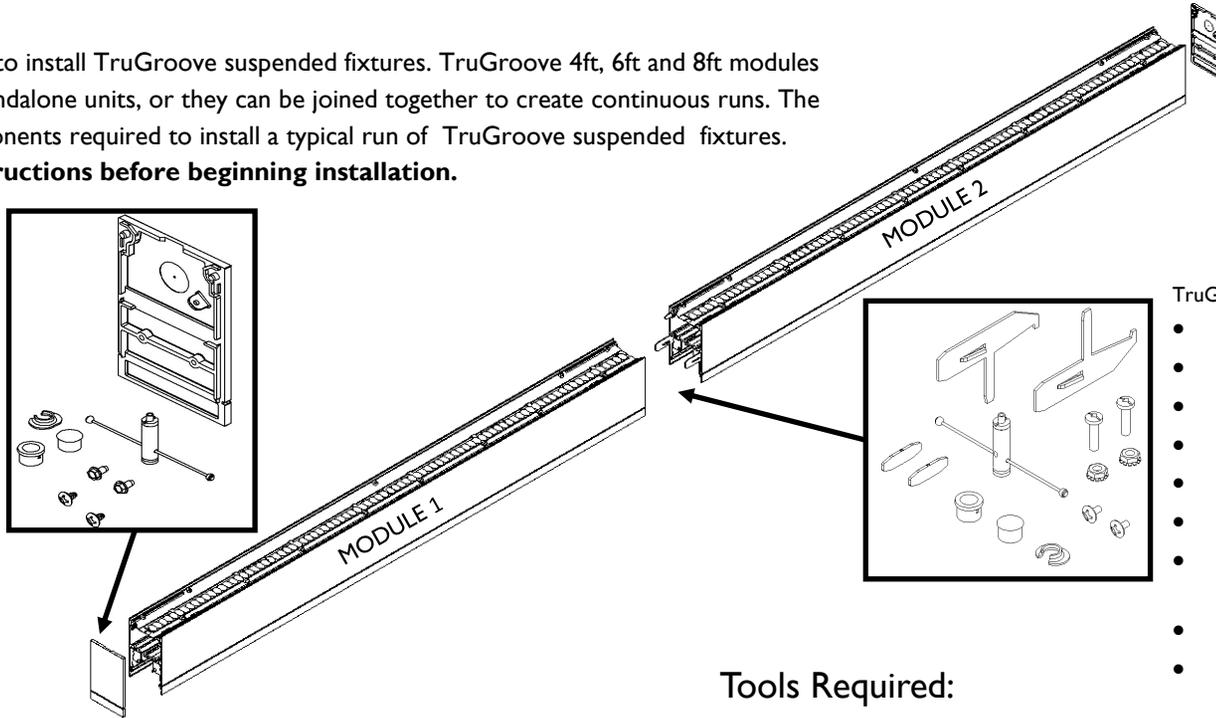
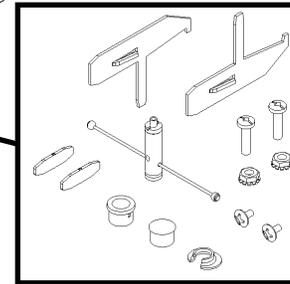
TruGroove Endcap Kit(s)

- TG D/I endcap (x1)
- Sling cable assembly (x1)
- #8 sheet metal screws (x2)
- #8-32 x 5/16" hex screw (x2)
- Cable Strain Relief (x1) (Heyco #7418)
- 1/2" Bushing (x1)
- 1/2" Plug (x1)



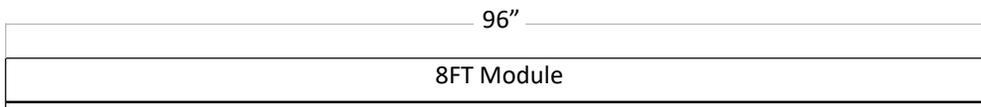
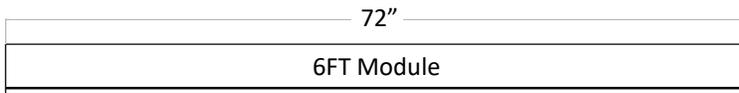
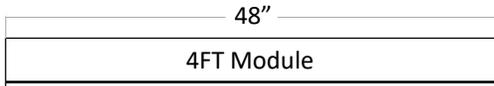
TruGroove Joint Kit(s)

- Sling cable assembly (x1)
- Joiner aligner (x2)
- Joiner biscuits (x2)
- #8 sheet metal screws (x2)
- #10-32 x 3/4" (x2)
- #10-32 hex lock nut (x2)
- Cable Strain Relief (x1)(Heyco #7418)
- 1/2" Bushing (x1)
- 1/2" Plug (x1)



Module Lengths

TruGroove suspended fixtures come in 4ft, 6ft and 8ft modules. Overall module lengths are shown below. Add 0.2" for each endcap for accurate run length.

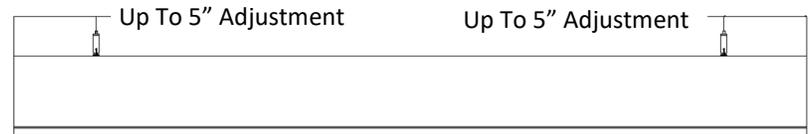


Tools Required:

- 1/4" Nut Driver
- 3/8" Nut Driver
- Phillips Screwdriver
- Flat or #2 Robertson Screwdriver

Mount Spacing

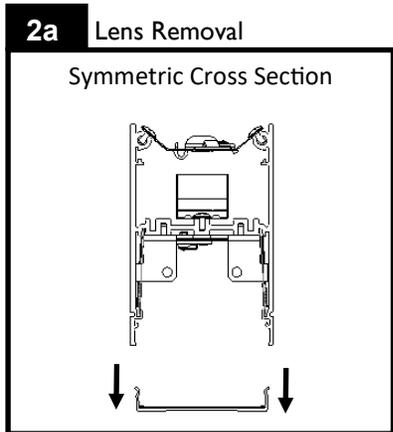
TruGroove fixture modules are designed for exact on-grid mounting. For non-accessible ceilings, mounts are adjustable within 5" of each module end.



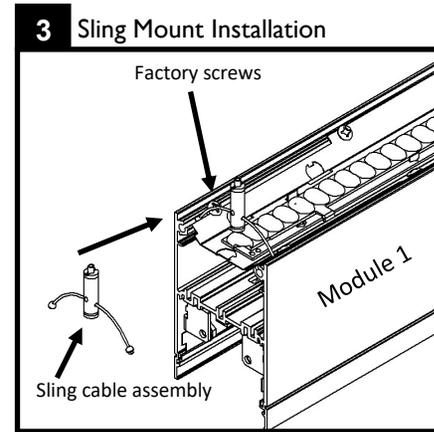
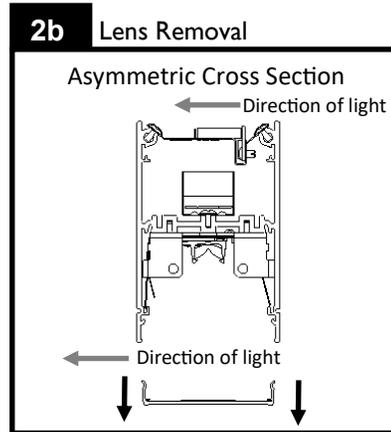
Mounts are adjustable to within 5" of module end(s).

! ATTENTION: Install in accordance with national and local building and electrical codes.

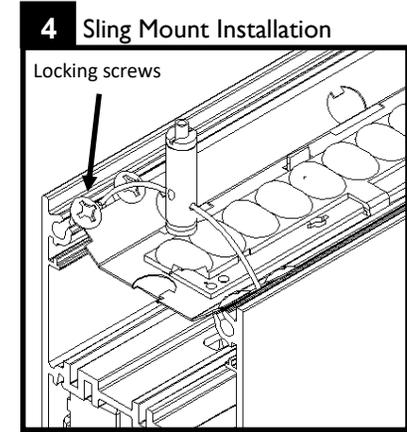
1 Arrange boxed fixture on floor in specified mounting location, remove fixtures from boxes. Install all ceiling mounting components and vertical aircraft cables using separate installation instruction for Aircraft Cable Mounting (supplied).



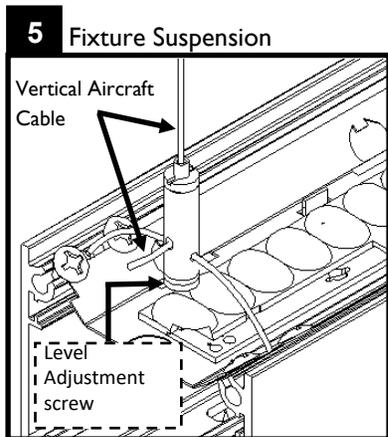
Remove lens from fixture and set aside until fixture installation is complete. Use cotton gloves to handle lenses and keep in a clean environment. **Note:** Do not mix symmetric fixture lenses with asymmetric fixture types as they are different.



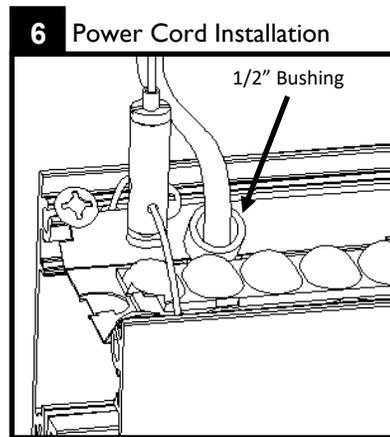
With module 1 on the ground, slide sling cable assembly into top fixture screw chase on both ends of the fixture.



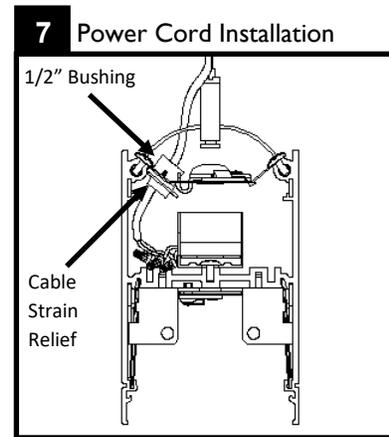
Attach #8 sheet metal screws to secure sling cable assemblies to housing during assembly process.



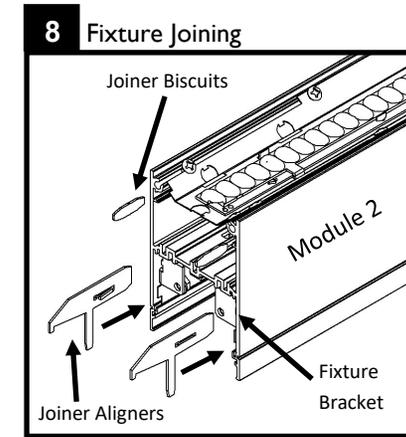
Raise fixture to installed level and insert vertical aircraft cable inside sling cable assembly. Ensure end of aircraft cable exits from sling cable assembly as shown.



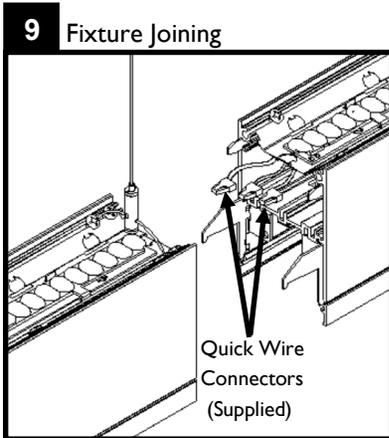
Determine power feed location and open 1/2" electrical knockout at required end. Install 1/2" bushing from inside fixture as shown. Feed power cord from above into fixture wiring cavity.



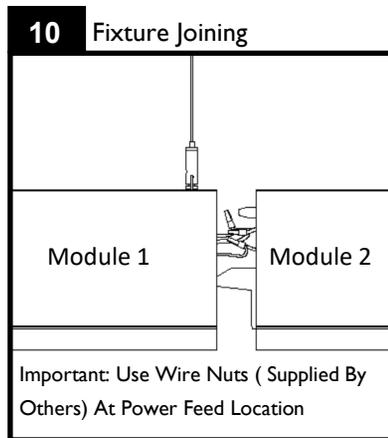
Install and crimp provided cable metal strain relief bushing to secure power cord below fixture reflector. Use the Heyco PN0019(R12) crimping tool to ensure proper installation. If installing a standalone fixture, skip to step 13.



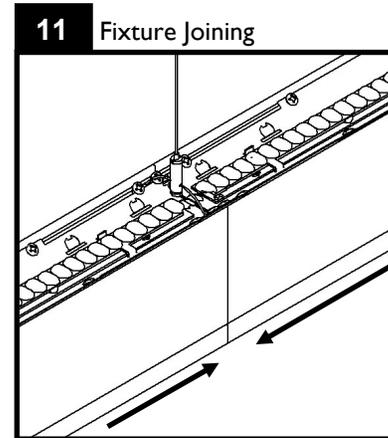
With module 2 on the ground, tap biscuit aligners inside top screw chase. Ensure biscuit aligners are inserted more than half way inside fixture housing. Insert joiner aligners inside lower screw chase as shown. Ensure orientation is correct for locking tab to engage and lock inside fixture bracket.



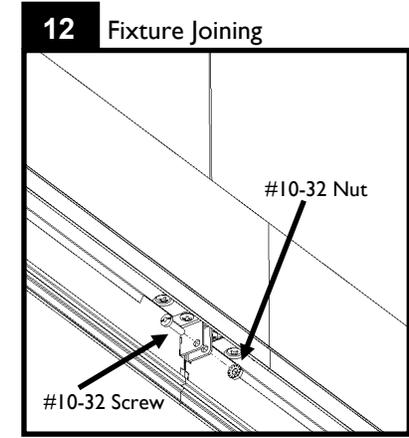
9 Fixture Joining
Raise module 2 to installed module 1 position.



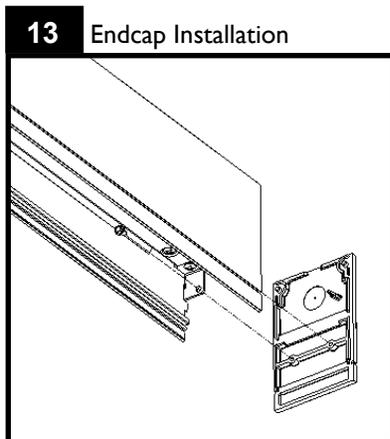
10 Fixture Joining
Bring modules together and engage joiner aligners in module 2 on fixture bracket in module 1. With fixtures modules supporting each other, complete wiring connections between modules.
Important: Use Wire Nuts (Supplied By Others) At Power Feed Location



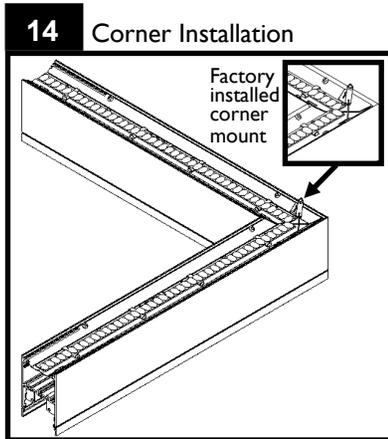
11 Fixture Joining
Ensure all connections are secure and all wires are neatly tucked inside fixture wiring cavity. Slide fixture modules together gently.



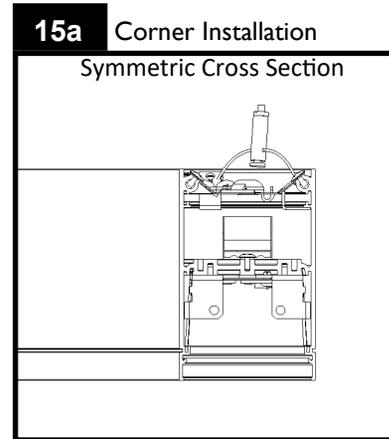
12 Fixture Joining
Secure fixture modules together using the two #10-32 machine screws and the two #10-32 nuts supplied. Tighten until joint seam is tight. **Note: Do not overtighten.**



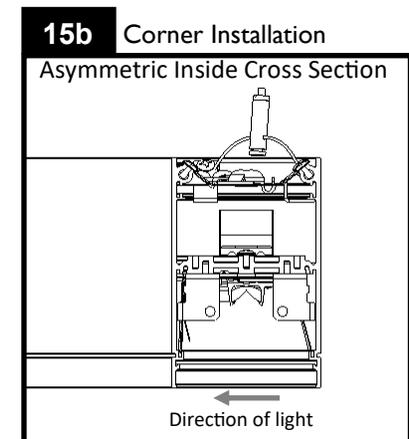
13 Endcap Installation
Slide endcap onto end of fixture module and secure from below using two #8-32 X 5/16" screws. Ensure excess aircraft cable does not interfere with endcap attachment. Tighten screws until endcap seam is tight. **Note: Do not overtighten.**



14 Corner Installation
If a corner is required, it is recommended the 2'X2' corner module be installed first. All corners come with a factory installed cable sling assembly in the middle. Refer to supplied corner run layout drawings and figures 15a, 15b and 15c for correct locations and corner orientation.

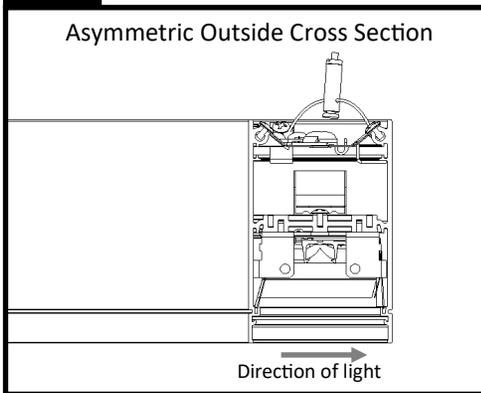


15a Corner Installation
Symmetric Cross Section
Graphic above shows a symmetric corner cross-section. Refer to supplied layout drawings for mounting locations.



15b Corner Installation
Asymmetric Inside Cross Section
Graphic above shows the direct/indirect inside asymmetric corner cross-section. This corner directs all lower light toward the inside of the corner. Refer to supplied layout drawings for required corner orientation (direction of light) and mounting locations.

15c Corner Installation

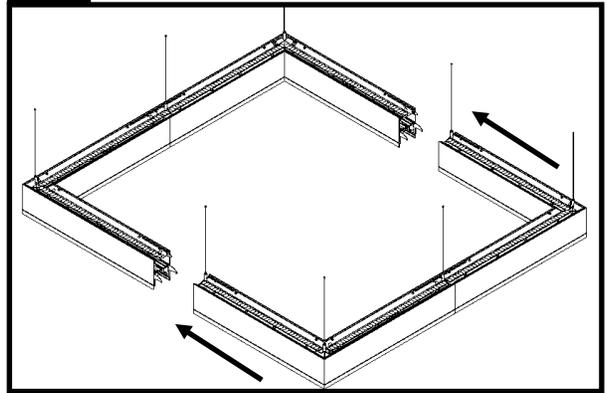


Graphic above shows the outside asymmetric corner cross-section. This corner directs all lower light toward the outside of the corner. Refer to supplied layout drawings for required corner orientation (direction of light) and mounting locations.

16 Corner Installation

- To install a corner module, begin at step 3 of these instructions.
- Follow the rest of the steps as required to attach power feed, join additional fixtures or attach endcaps.

17 Closed Pattern Installation

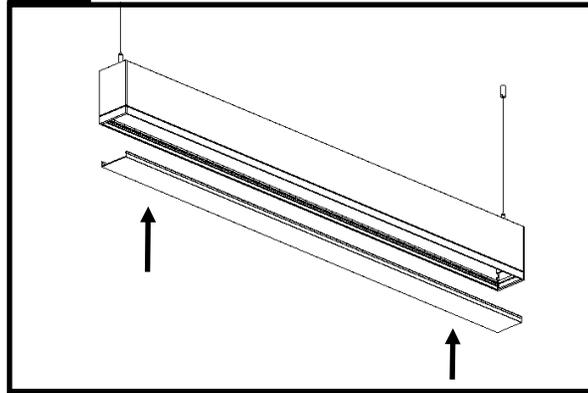


If installing a square or rectangular closed pattern, it is recommended to install opposite U-shaped fixture/corner patterns first and complete the installation by bringing U-shaped sections together as shown.

18 Finishing

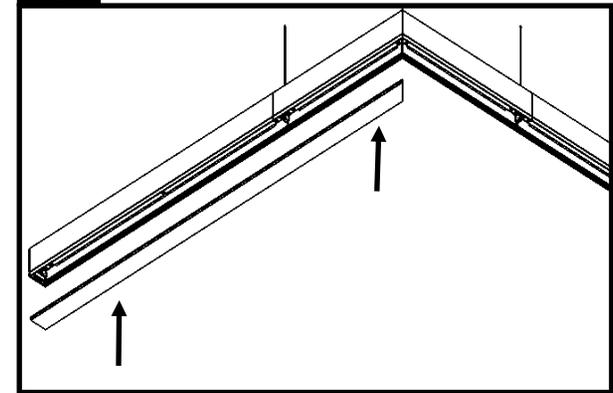
- Ensure all fixtures and corners are level and in line with each other.
- For on-grid mounting or as required, remove locking screws installed in step 4 to bring vertical aircraft cable to level.
- Trim excess vertical aircraft cable installed in step 5.
- If horizontal leveling is required, loosen adjustment screw shown in step 5, level fixture and re-tighten screw.
- Check that all joint or endcap screws are installed and all seams are tight.
- Use spare 1/2" plug(s) provided to close any open 1/2" electrical knockout location(s) in top reflector.

19 Fixture Lens Installation



Install lenses removed in step 1 by snapping inside extrusion housing. Installation Tip: For easier installation, start at a housing end or a joint by squeezing lens in slightly from both sides and guiding inside housing.

20 Corner Lens Installation



In continuous runs requiring corners, refer to supplied layout drawings for lens type required and lens location. Note: Corner run lenses ship separately and are specifically made for corner configurations. Installation Tip: For easier installation of corner lenses, start at the corner and work outward to complete the run.

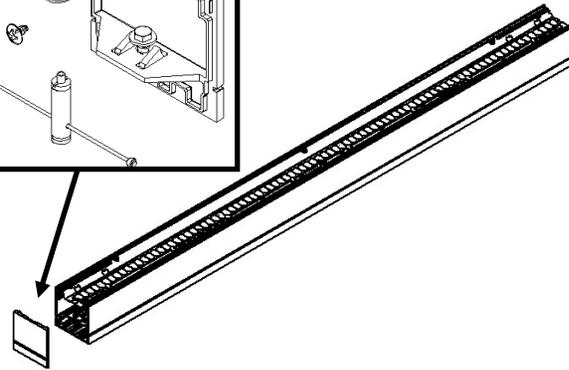
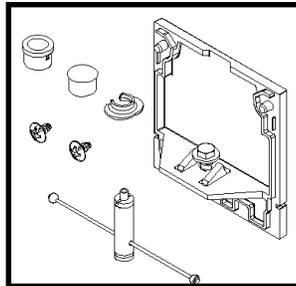
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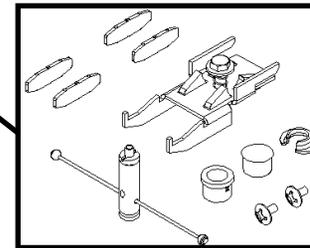
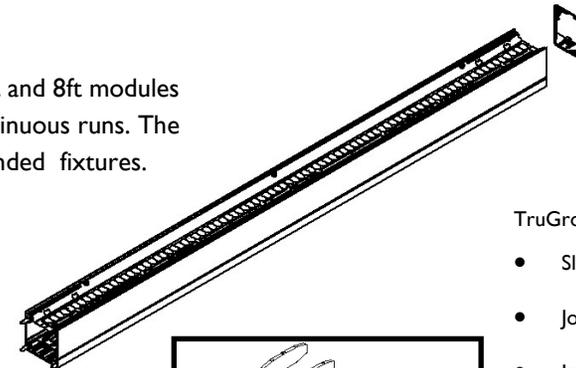
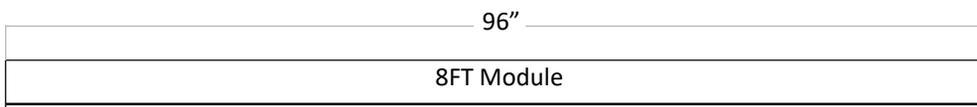
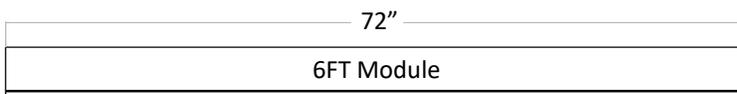
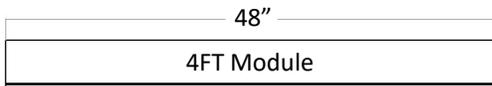
TruGroove Endcap Kit(s)

- TG Indirect endcap (x1)
- Sling cable assembly (x1)
- #8 sheet metal screws (x2)
- Cable Strain Relief (x1) (Heyco #7418)
- 1/2" Bushing (x1)
- 1/2" Plug (x1)



Module Lengths

TruGroove suspended fixtures come in 4ft, 6ft and 8ft modules. Overall module lengths are shown below. Add 0.2" for each endcap for accurate run length.



TruGroove Joint Kit(s)

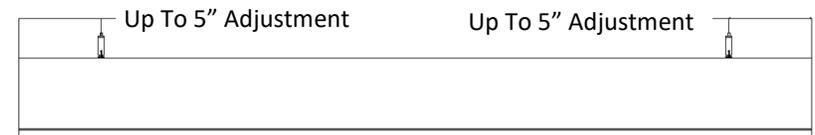
- Sling cable assembly (x1)
- Joiner Bracket (x1)
- Joiner biscuits (x4)
- #8 sheet metal screws (x2)
- Cable Strain Relief (x1)(Heyco #7418)
- 1/2" Bushing (x1)
- 1/2" Plug (x1)

Tools Required:

- 1/4" Nut Driver
- Phillips Screwdriver
- 3/8" Nut Driver
- Flat or #2 Robertson Screwdriver

Mount Spacing

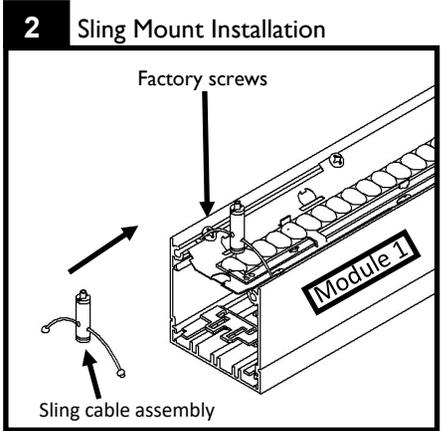
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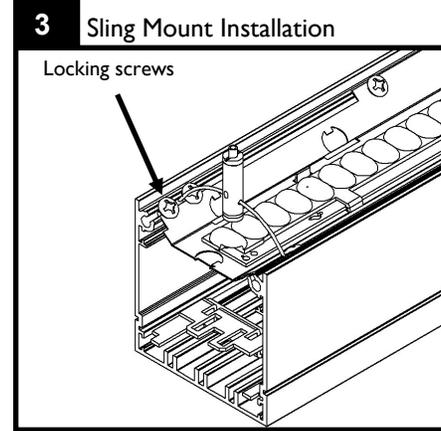
Mounts are adjustable to within 5" of module end(s).

! ATTENTION: Install in accordance with national and local building and electrical codes.

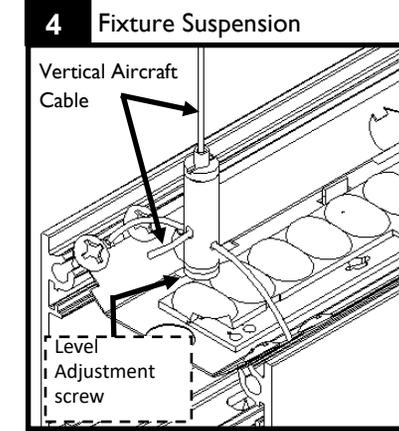
1 Arrange boxed fixture on floor in specified mounting location, remove fixtures from boxes. Install all ceiling mounting components and vertical aircraft cables using separate installation instruction for Aircraft Cable Mounting (supplied).



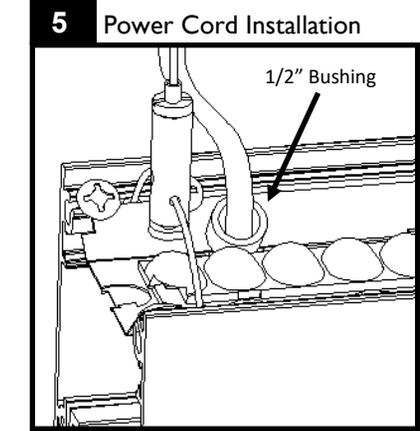
With module 1 on the ground, slide sling cable assembly into top fixture screw chase on both ends of the fixture.



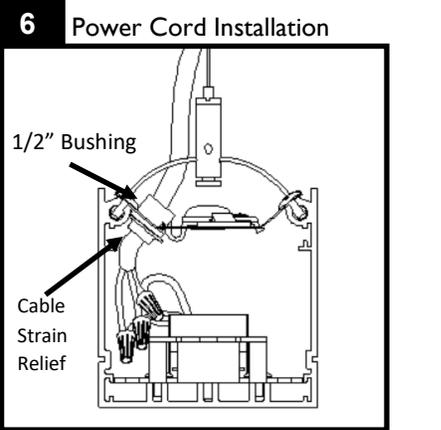
Attach #8 sheet metal screws to secure sling cable assemblies to housing during assembly process.



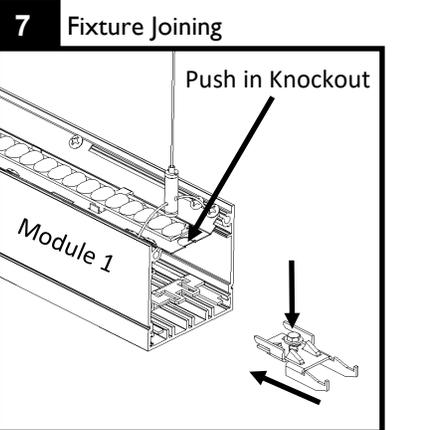
Raise fixture to installed level and insert vertical aircraft cable inside sling cable assembly. Ensure end of aircraft cable exits from sling cable assembly as shown.



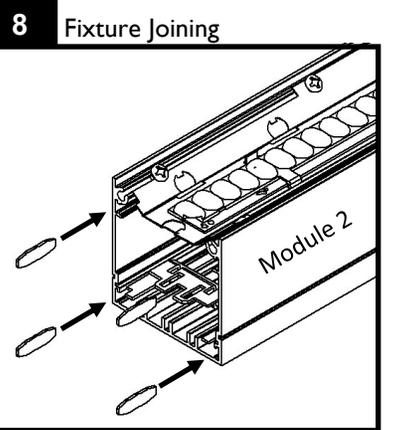
Determine power feed location and open 1/2" electrical knockout at required end. Install 1/2" bushing from inside fixture as shown. Feed power cord from above into fixture wiring cavity.



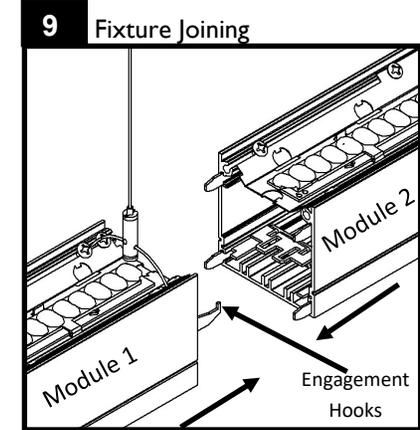
Install and crimp provided cable metal strain relief bushing to secure power cord below fixture reflector. Use the Heyco PN0019(R12) crimping tool to ensure proper installation. If installing a standalone fixture, skip to step 16.



Slide joiner bracket into fixture bracket until it locks in position. Push in 1/2" knockout in top reflector.

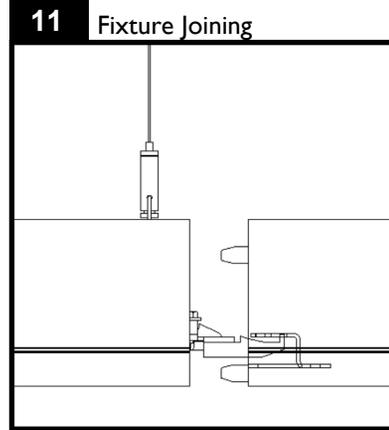
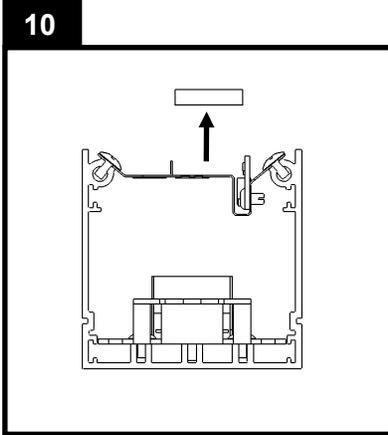


With module 2 on the ground, tap biscuit aligners inside top screw chase. Ensure biscuit aligners are inserted more than half way inside fixture housing.

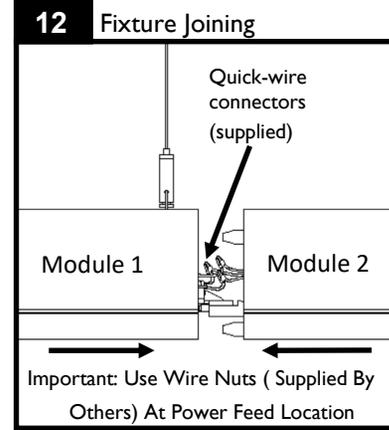


Raise Module 2 to installed module 1 position.

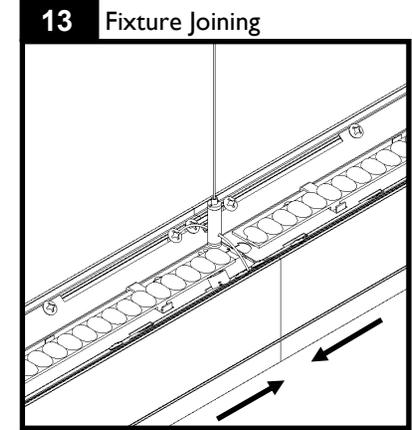
! ATTENTION: Install in accordance with national and local building and electrical codes. Page 2



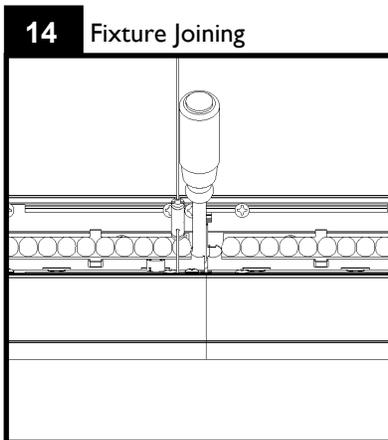
11 Fixture Joining
Bring modules together and engage joiner bracket in module 1 on fixture bracket in module 2. Ensure slots in module 2 fixture bracket lock on hooks of module 1 joiner bracket.



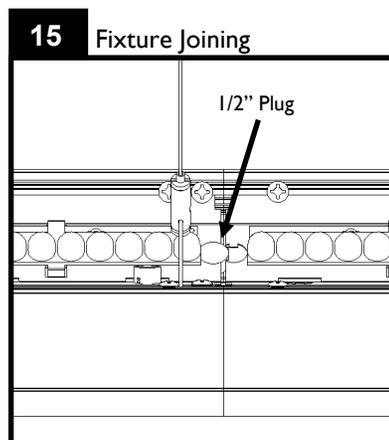
12 Fixture Joining
Quick-wire connectors (supplied)
Module 1 Module 2
Important: Use Wire Nuts (Supplied By Others) At Power Feed Location
With fixtures modules supporting each other, complete wiring connections between modules.



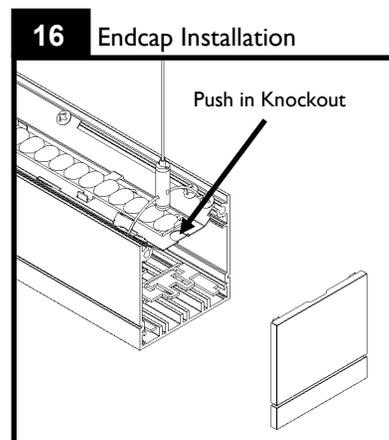
13 Fixture Joining
Ensure all connections are secure and all wires are neatly tucked inside fixture wiring cavity. Slide fixture modules together gently.



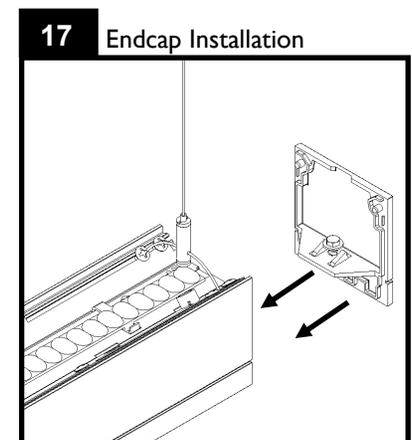
14 Fixture Joining
Insert 5/16" nut driver through 1/2" hole in top of reflector and tighten screw. Check that joint seam is tight.



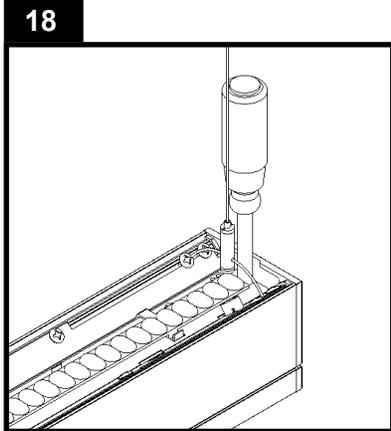
15 Fixture Joining
1/2" Plug
After joint is tightened insert 1/2" plug provided to seal top reflector.



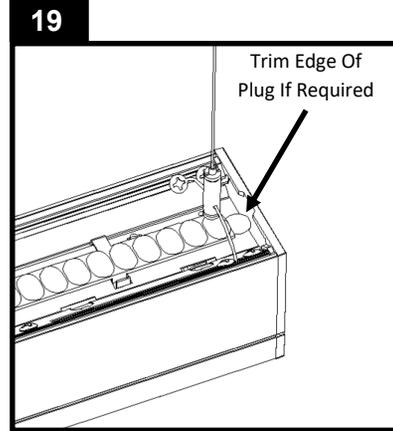
16 Endcap Installation
Push in Knockout
Push in and break off 1/2" knockout in top reflector.



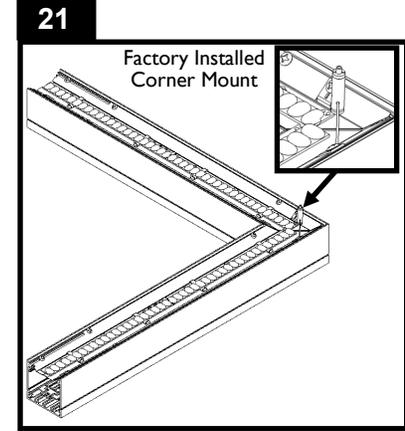
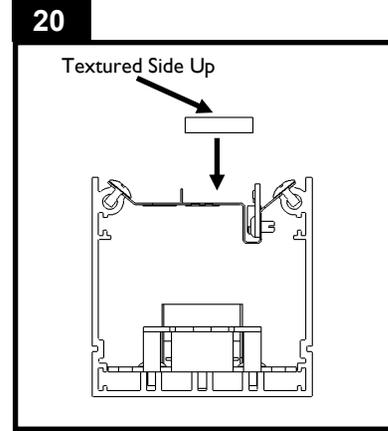
17 Endcap Installation
Slide endcap towards fixture bracket until it engages and clicks in place.



Insert 5/16" nut driver through 1/2" hole in top reflector and tighten screw until endcap seam is tight.



After endcap is tightened, install 1/2" plug provided to seal top reflector. Trim plug on endcap side as required.

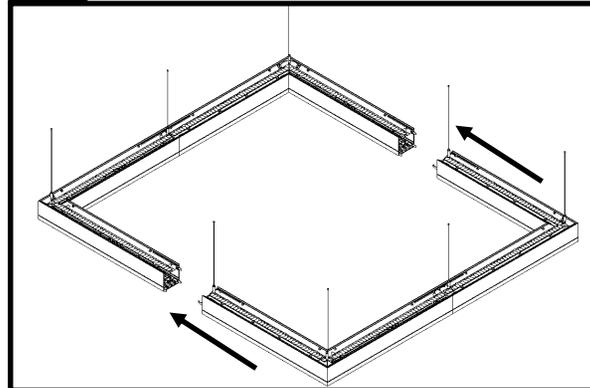


If a corner is required, it is recommended the 2'X2' corner module be installed first. All corners come with a factory installed cable sling assembly in the middle. Refer to supplied corner run layout drawings for correct locations and corner orientation.

22 Corner Installation

- To install a corner module, begin at step 3 of these instructions.
- Follow the rest of the steps as required to attach power feed, join additional fixtures or attach endcaps.

23 Closed Pattern Installation



If installing a square or rectangular closed pattern, it is recommended to install opposite U-shaped fixture/corner patterns first and complete the installation by bringing U-shaped sections to-

24 Finishing

- Ensure all fixtures and corners are level and in line with each other.
- For on-grid mounting or as required, remove locking screws installed in step 4 to bring vertical aircraft cable to level.
- Trim excess vertical aircraft cable installed in step 5.
- If horizontal leveling is required, loosen adjustment screw shown in step 5, level fixture and re-tighten screw.
- Check that all joint or endcap screws are installed and all seams are tight.
- Use spare 1/2" plug(s) provided to close any open 1/2" electrical knockout location(s) in top reflector.