

H04 Recessed T-Bar Installation Instructions

Overview

NOTES

- Ensure that reflectors do not get dirty or damaged.
- If luminaire contains a sensor refer to the Sensor Addendum.
- All power connections should be installed according to local/national codes by a Certified Electrician.
- This installation requires **proper support** as each luminaire is being installed.
- **DO NOT attempt to join luminaires together on the floor.** Damage may result when lifted.



HELPFUL
VIDEOS



0-10V
Dimming



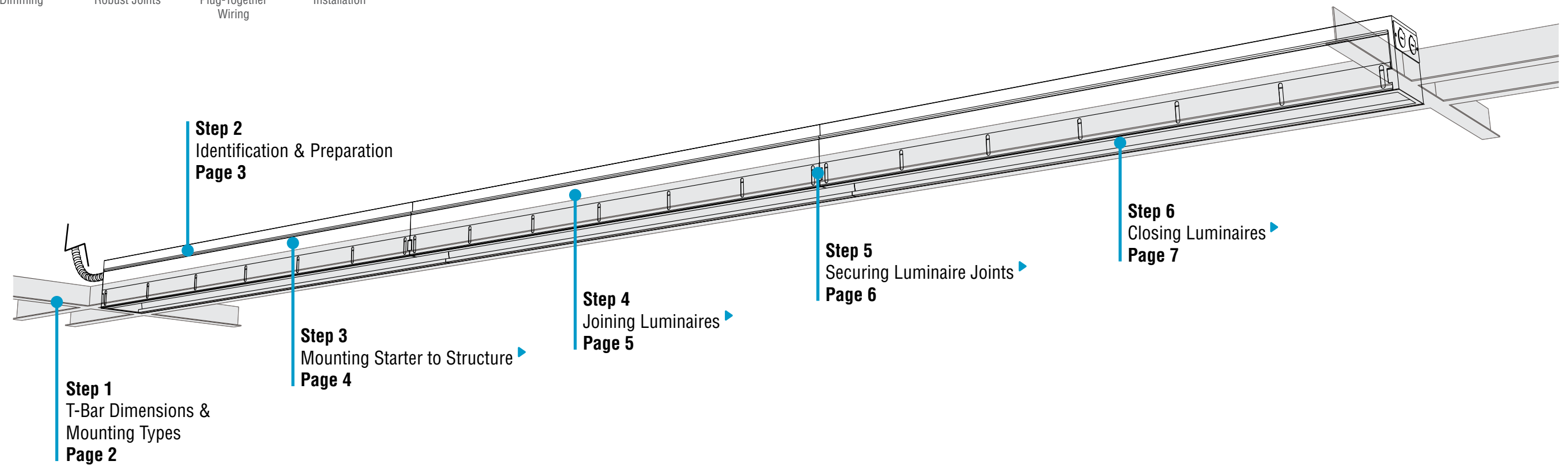
Universal &
Robust Joints



Simple
Plug-Together
Wiring



Reflector
Installation



H04 Recessed T-Bar Installation Instructions

Step 1 - T-Bar Dimensions & Mounting Types

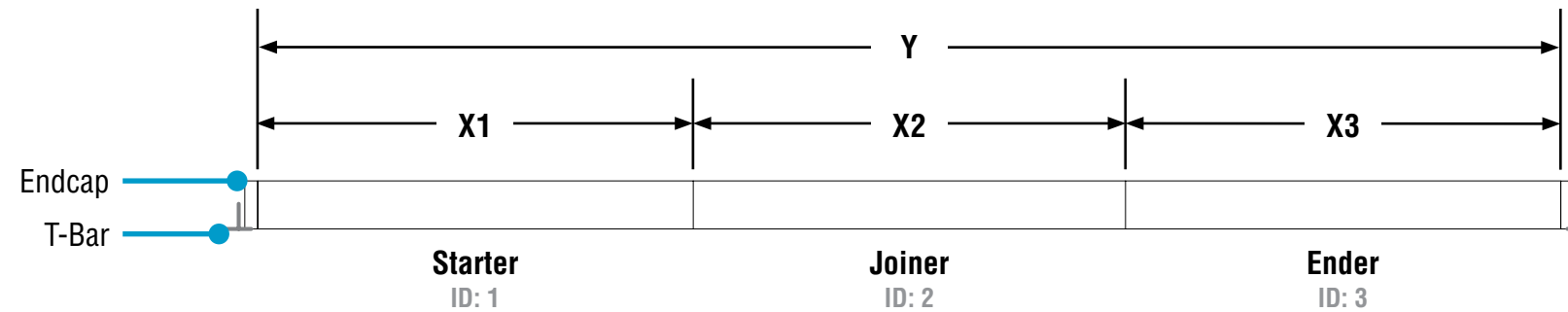
Total Run Length

X = Luminaire section length

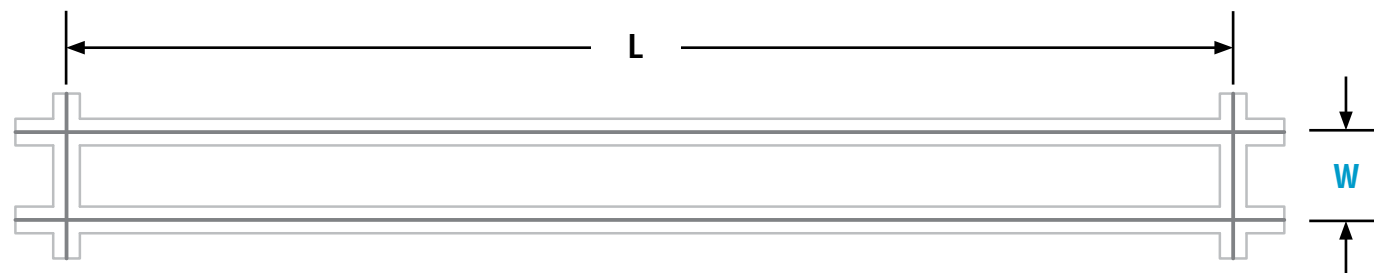
Y = X1 + X2 + X3

(X and Y measurements **do not include** endcaps)

Refer to Record Drawings and building plans to determine exact mounting, suspension points, and power feed locations.



T-Bar Build Dimensions



$L = Y + 1-1/8"$

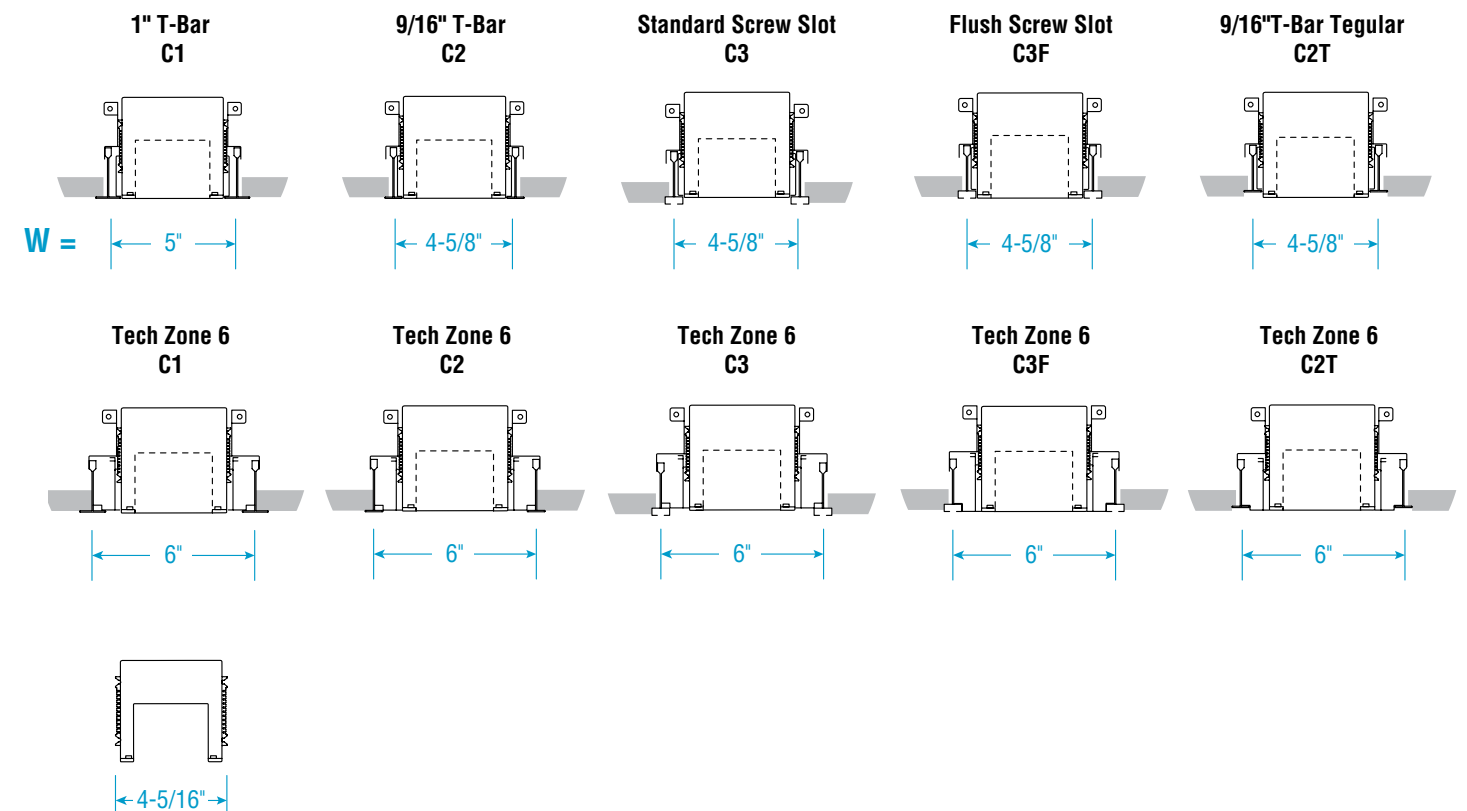
W = T-Bar spacing from centerline to centerline of grid

Center to center of T-Bar. Tolerance: +/- 1/16"

Construct T-Bar ceiling for luminaire placement based on Length and Width dimensions per diagram.

Mounting Types & Rough-Ins

Dimensions shown are for use in flangeless installations.



W = T-Bar spacing from centerline to centerline of grid

• **NOTE:** Only for standard 2x4 or 2x2 T-Bar ceiling, the starter luminaire is purposefully short by 1-1/8" to ensure fit in T-Bar types, shown above.

• The luminaire endcaps and end flanges cover any gaps and ensure smooth flush appearance at the ends.

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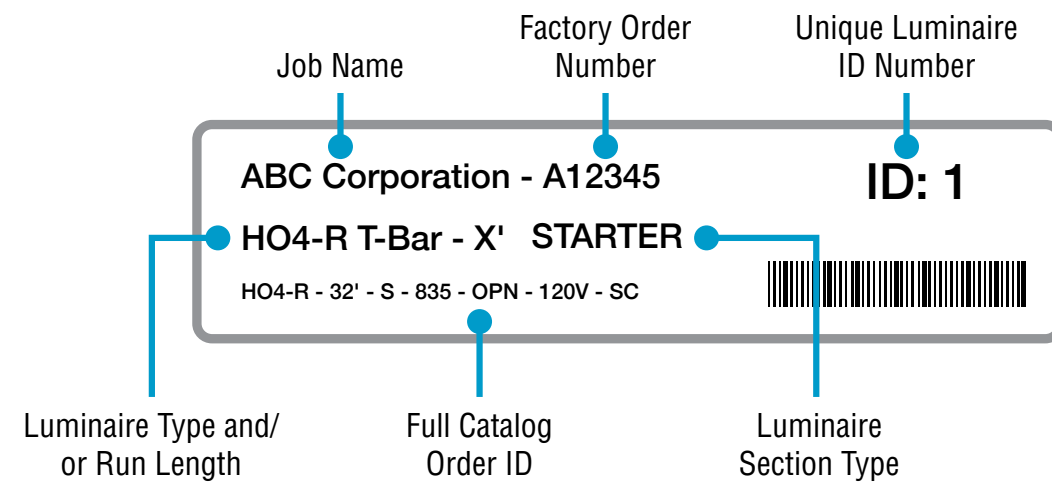
Step 2 - Identification & Preparation

A. Identify Luminaires



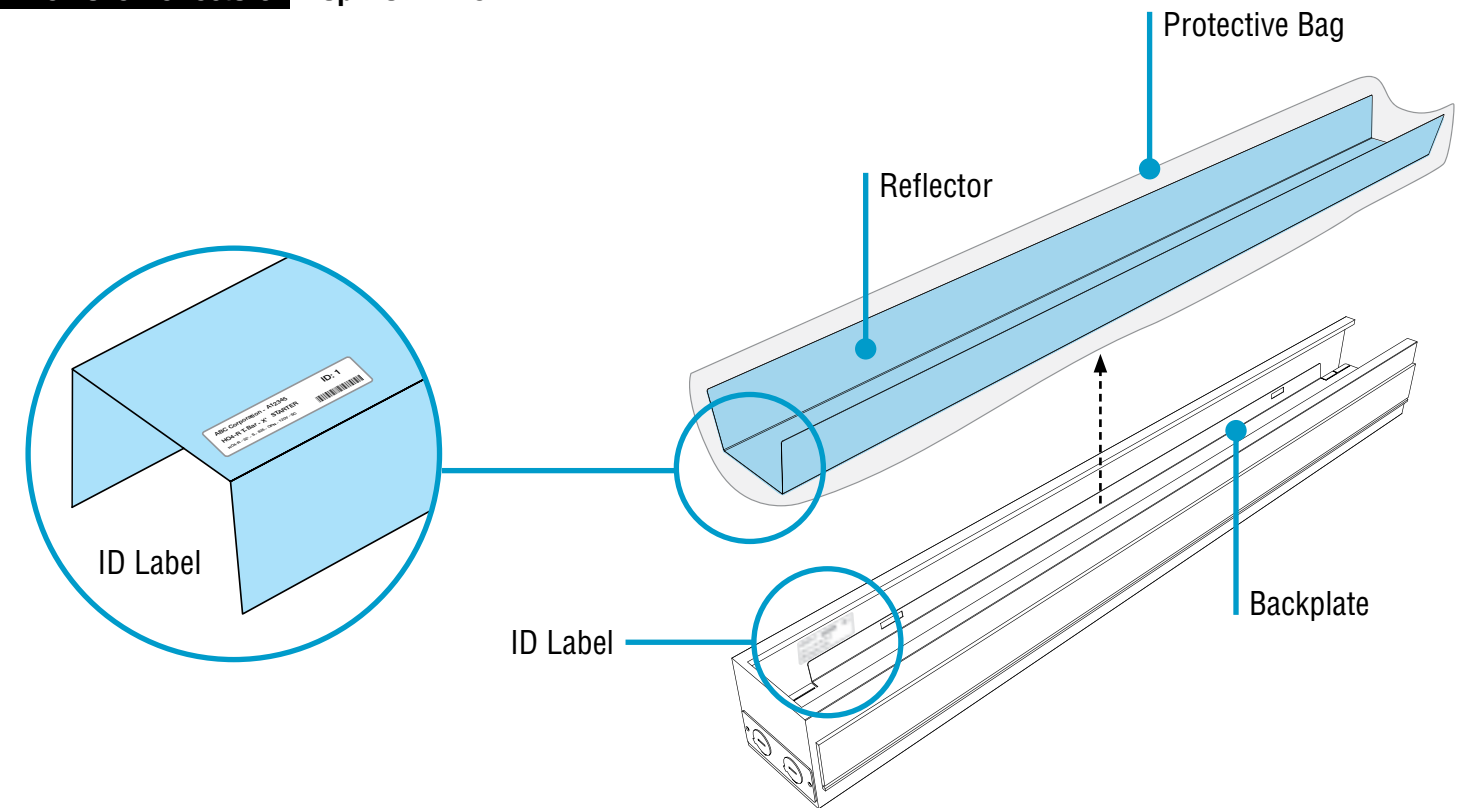
CAUTION

Arrange luminaires in order at their install locations, according to ID#.



- Identify all luminaires by their ID label that can be found on the box, on the reflector, and inside the luminaire.
- NOTE:** Exact location of labels in these areas may vary.
- Remove all luminaires from their box.
- Refer to Record Drawings that can be found in the hardware kit.

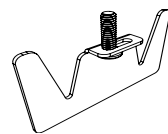
B. Remove Reflectors Top-Down View



- Carefully remove all reflectors, keeping them inside their protective bags.
- Set aside all reflectors to prevent from getting dirty or damaged.
- Ensure reflectors can be clearly identified back to its corresponding luminaire.

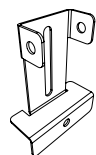
Kitted Hardware

- Finelite has provided items listed here, with their Finelite part numbers. These items can be found in separate boxes shipped with the luminaire.
- Account for all parts and set aside until they are needed.
- All other hardware needed for this installation will be by others.



Yoke Bracket
Part# 45042

#10-32 x 5/8" Screw
Part# 94144
Securing Luminaire Joints
p. 6, Step 5



T-Bar Bracket (C1, C2, C3)
Part# 45651

T-Bar Bracket (TZ4)
Part# 20510

T-Bar Bracket (C2T, C3F)
Part# 27038

T-Bar Bracket (TZ6)
Part# 27040
Closing Luminaires
p. 7, Step 6



#8 Self-Drilling Screw
Part# 94138
Closing Luminaires
p. 7, Step 6

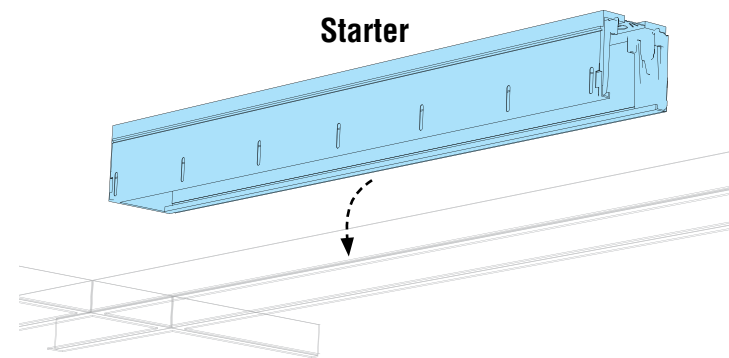


#6 Self-Drilling Screw
Part# 94054
Closing Luminaires
p. 7, Step 6

H04 Recessed T-Bar Installation Instructions

Step 3 - Mounting Starter to Structure

A. Mount Starter to Structure Bottom-Up View



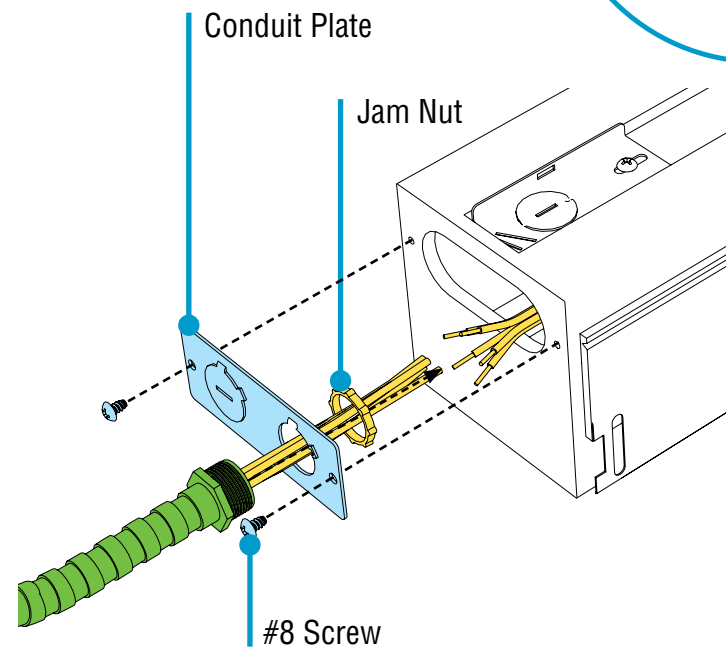
- Maneuver luminaire into ceiling space above T-Bar ceiling.
- Lower luminaire into place onto T-Bar.

B. Make Electrical Connections Top-Down View

WIRING LEGEND

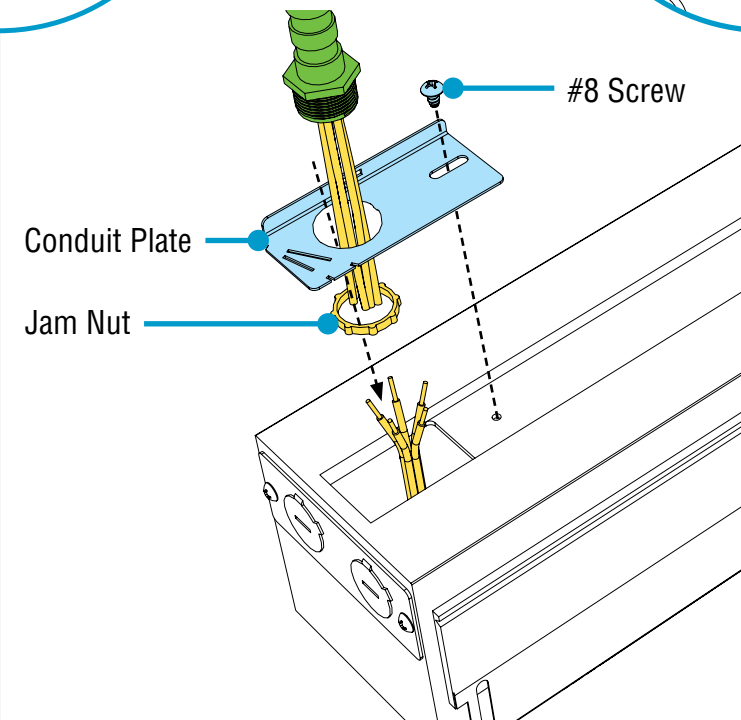
Black	Hot	Line Voltage
White	Neutral	Line Voltage
Green	Ground	
Pink	Dimming	0-10V DC
Purple	Dimming	0-10V DC

Wire-nut electrical connections.
(Typical for all options.)



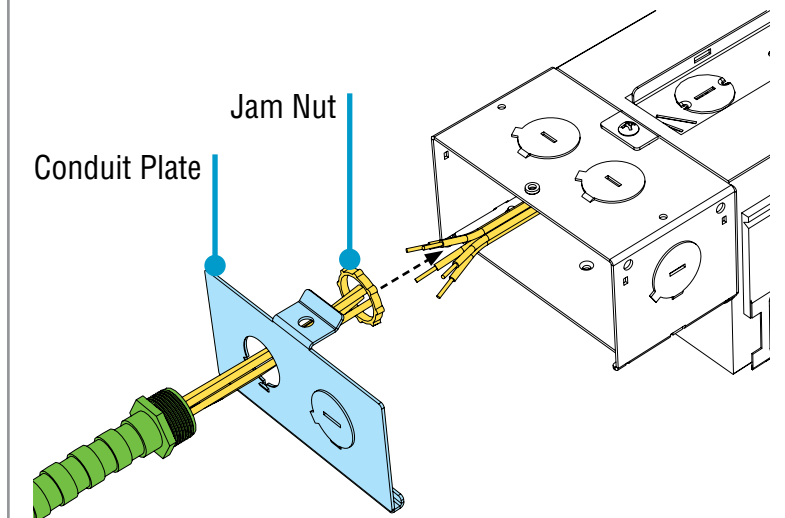
CONDUIT PLATE - ENDCAP (Standard)

- Remove two screws holding conduit plate.
- Install conduit and jam nut onto conduit plate.
- Wire-nut electrical connections. See wiring legend above.
- Reinstall conduit plate and screws. Do not damage any wires.
- **CRITICAL:** If part of an independent run, **PROCEED TO STEP 6.**




CONDUIT PLATE - TOP (Optional)

- Remove screw holding conduit plate.
- Install conduit and nut onto conduit plate.
- Wire-nut electrical connections. See wiring legend above.
- Reinstall conduit plate and screw. Do not damage any wires.
- **CRITICAL:** If part of an independent run, **PROCEED TO STEP 6.**



SPLICE BOX (Optional)

- Lift tab to unsnap and remove splice box cover.
- Install conduit and nut onto splice box cover.
- Wire-nut electrical connections. See wiring legend above.
- Reinstall splice box cover. Do not damage any wires.
- **CRITICAL:** If part of an independent run, **PROCEED TO STEP 6.**

 Flex Conduit
(by others)



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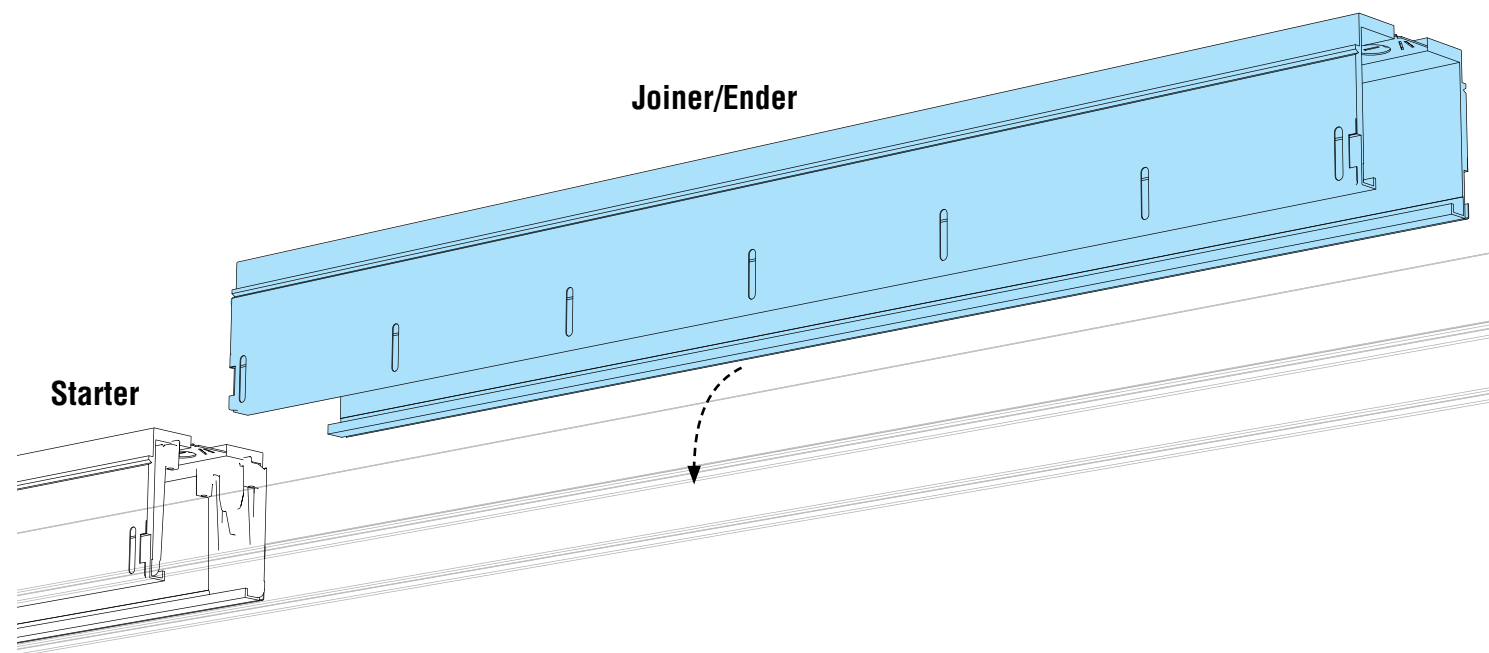
Step 4 - Joining Luminaires

A. Mount Joiner to Structure Bottom-Up View



CAUTION

DO NOT attempt to join luminaires together on the floor. Damage may result when lifted. Follow these instructions.



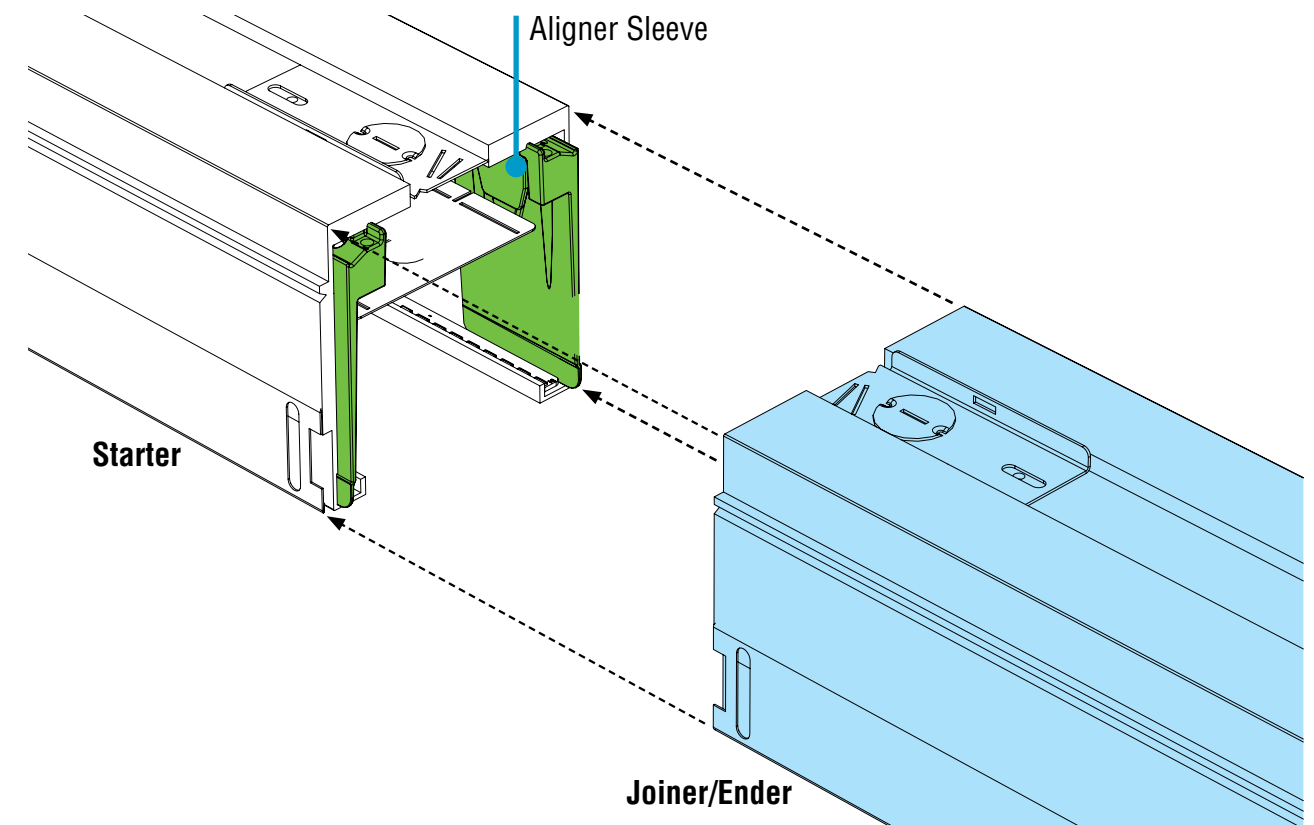
- **FOR SENSOR:** If luminaire contains a sensor at joint, refer to page 4 of Sensor Addendum before joining luminaires.
- Maneuver joiner into ceiling space above T-Bar ceiling.
- Lower joiner/ender into place onto T-Bar.

B. Make Electrical Connections Top-Down View



CAUTION

Once luminaires are aligned together, **joiner luminaire is not yet secure.** Ensure it does not slide off as it rests on the starter luminaire.



- Align joiner with aligner sleeves on starter and slide together.
- If necessary, **lift** both luminaires, then slide together. Be careful not to damage any wiring.

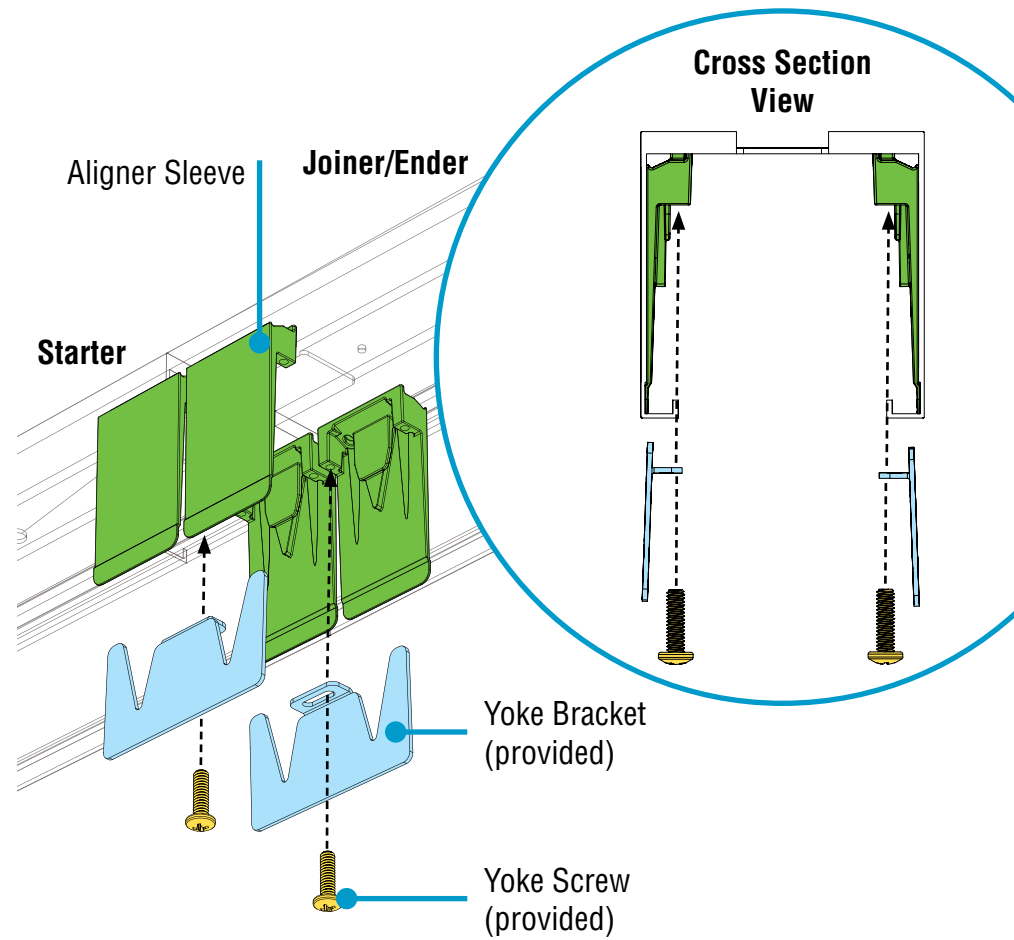


Universal &
Robust Joints

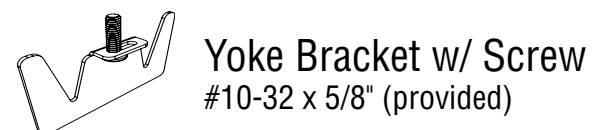
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Step 5 - Securing Luminaire Joints

A. Secure Joint with Yoke Brackets Bottom-Up View

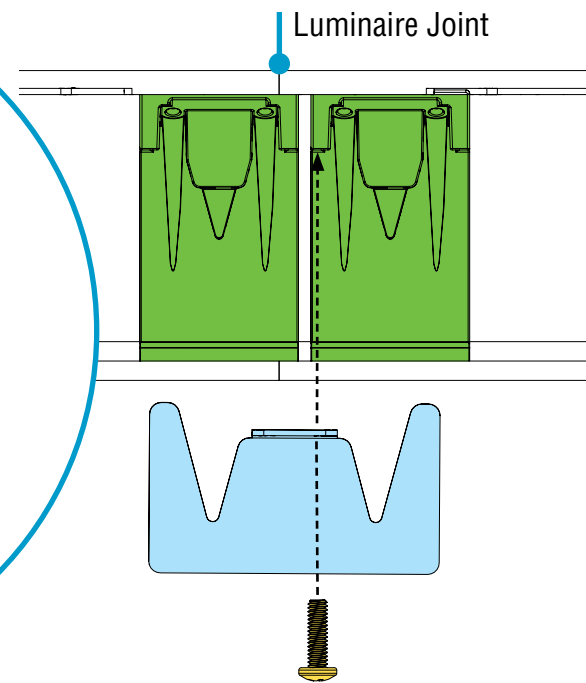


- Before installing yoke brackets, ensure the joining ends of luminaires meet flush and square.
- **CRITICAL:** Ensure yoke brackets properly engage with aligner sleeves.
- Secure joint by using a screwdriver¹ to tighten yoke screws through yoke brackets and into the aligner sleeves until joint seam of luminaire is closed.

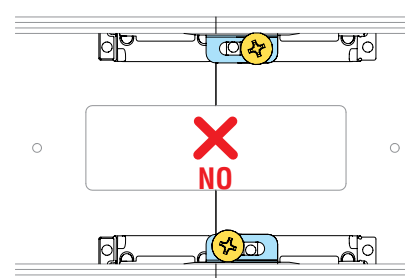


¹ Screwdriver with 6" bit required.

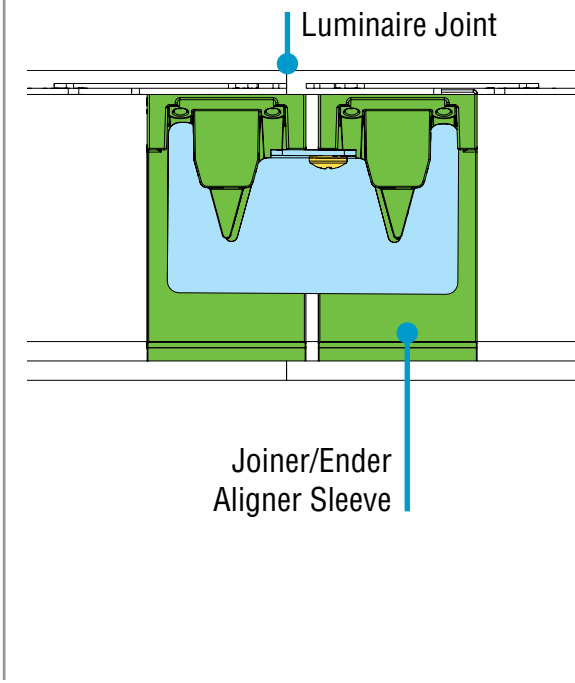
IN ALIGNMENT



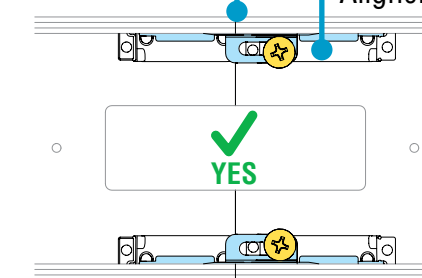
YOKE SCREW ALIGNMENT Bottom-Up View



CORRECTLY INSTALLED

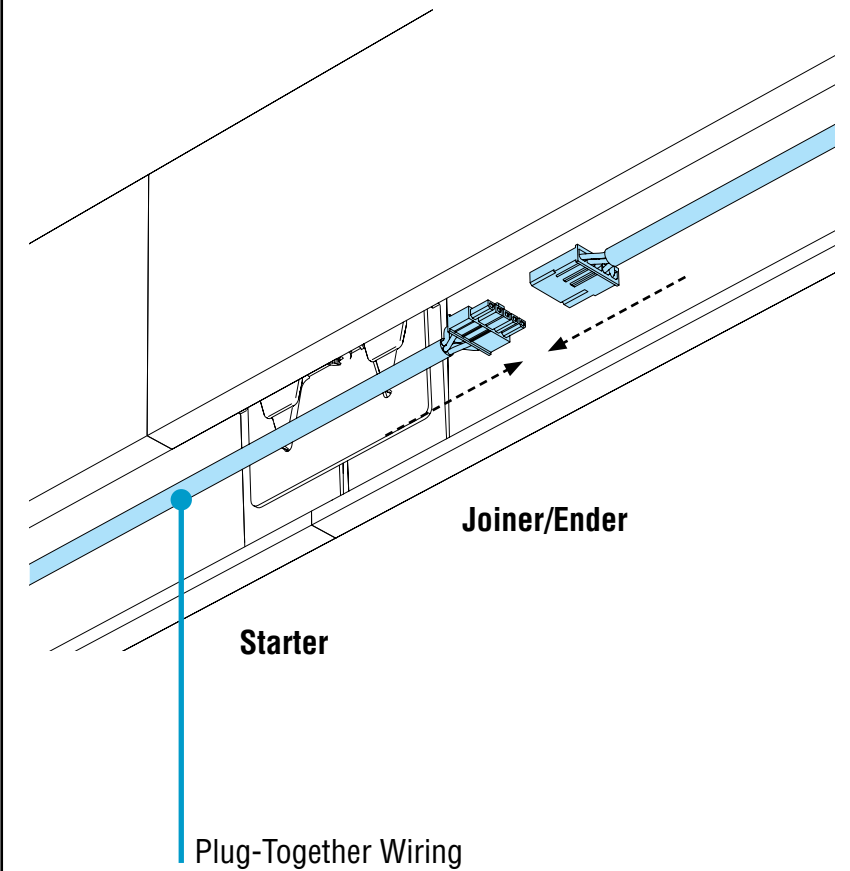


YOKE SCREW ALIGNMENT Bottom-Up View



NOTE: Yoke screws should be installed directly across from each other, not diagonally, and in holes furthest from the joint line. One yoke screw per one yoke bracket.

B. Make Electrical Connections Bottom-Up View



- Connect plug-together wiring.

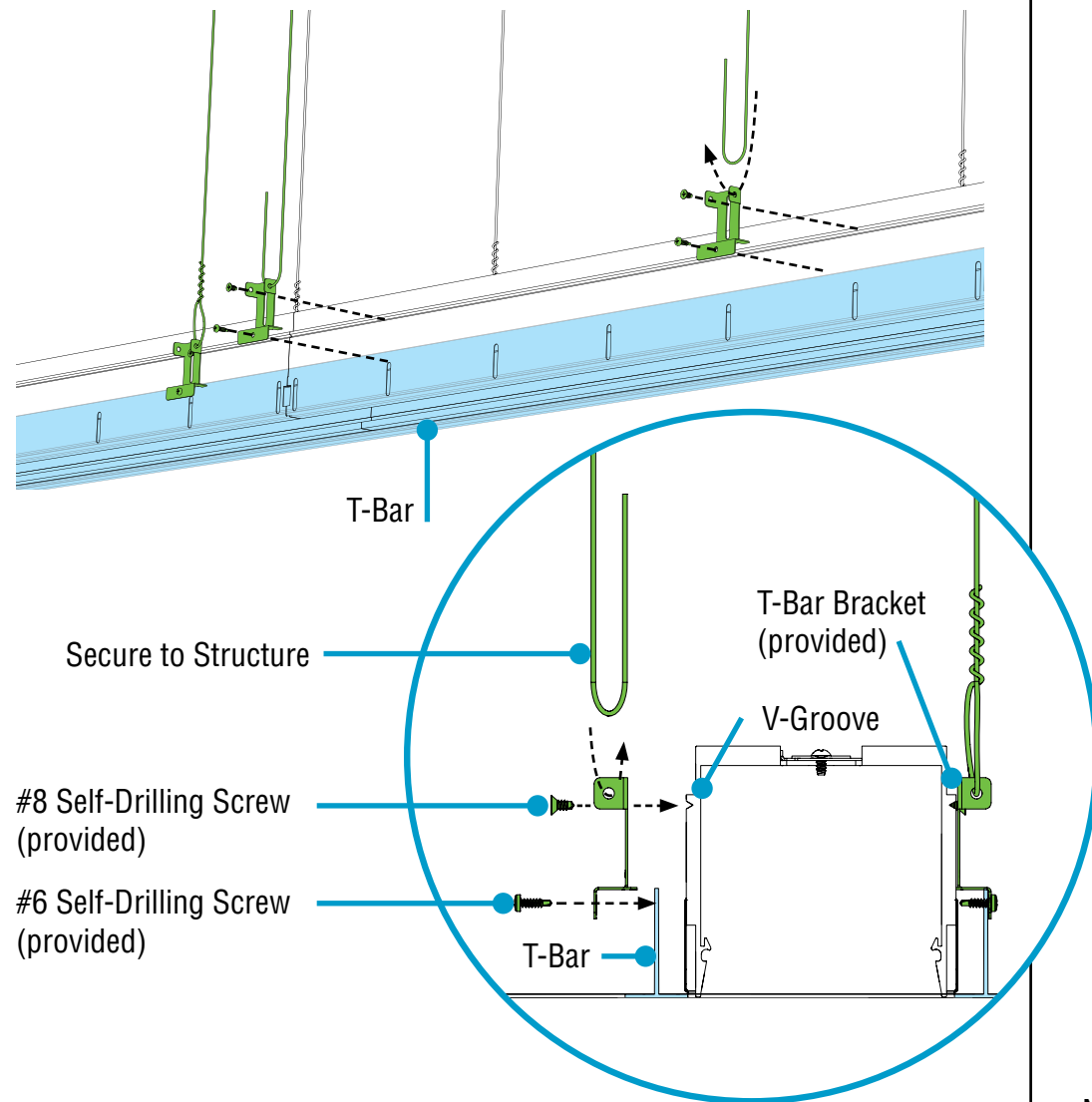


Simple
Plug-Together
Wiring

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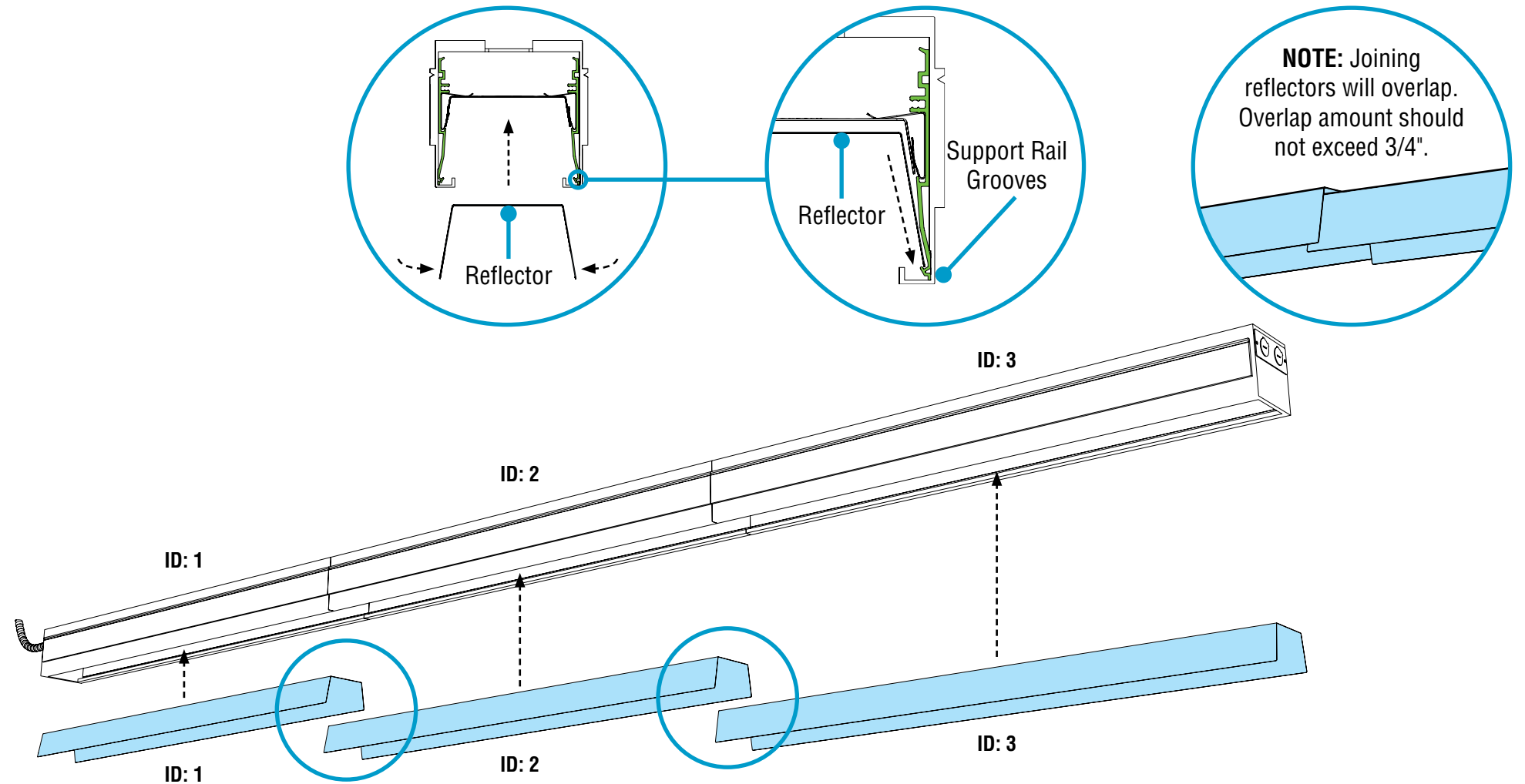
Step 6 - Closing Luminaires

A. Secure to Structure Bottom-Up View



- Use #8 self-drilling screws to mount brackets onto luminaire. Drill the screw into the v-groove screw channel.
- Secure luminaire to building structure using tie-wires, as per code.
- Use #6 self-drilling screws to mount T-Bar brackets to T-Bar ceiling.
- **CAUTION:** Do not over-tighten. Use these screws to control centering of the luminaire between the T-Bars on both sides.

B. Final Step - Install Reflectors Bottom-Up View



- **NOTE:** If your installation includes a battery backup, please see addendum (98333) that should be included with your kitting package.
- **FOR SENSOR:** If luminaire contains a sensor at joint, reinstall backplate by rotating into luminaire body and snapping into clips. Then refer to page 6 of Sensor Addendum before Closing Luminaires.
- **CAUTION:** Wear gloves to keep reflector surface clean. Be careful not to crease material. Make all adjustments to placement before settling on final position of reflector.

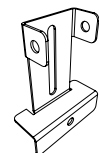
- Remove reflectors from protective plastic bag prior to installing.
- **CRITICAL:** Be sure to install correct reflector to its corresponding luminaire ID.
- Install reflector by squeezing in sides and inserting into luminaire body.
- Ensure reflector is pulled down so that its bottom edges catch the groove of the support rail.
- **NOTE:** Reflectors installed in joiner and ender luminaires are 3/4" longer. When installing the reflectors, overlap the reflector of the previous luminaire section by 3/4".
- Turn power on to luminaires.



#8 Self-Drilling Screw
(provided)



#6 Self-Drilling Screw
(provided)



T-Bar Bracket
(provided)



Reflector
Installation