

HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

Overview

NOTES

- 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.



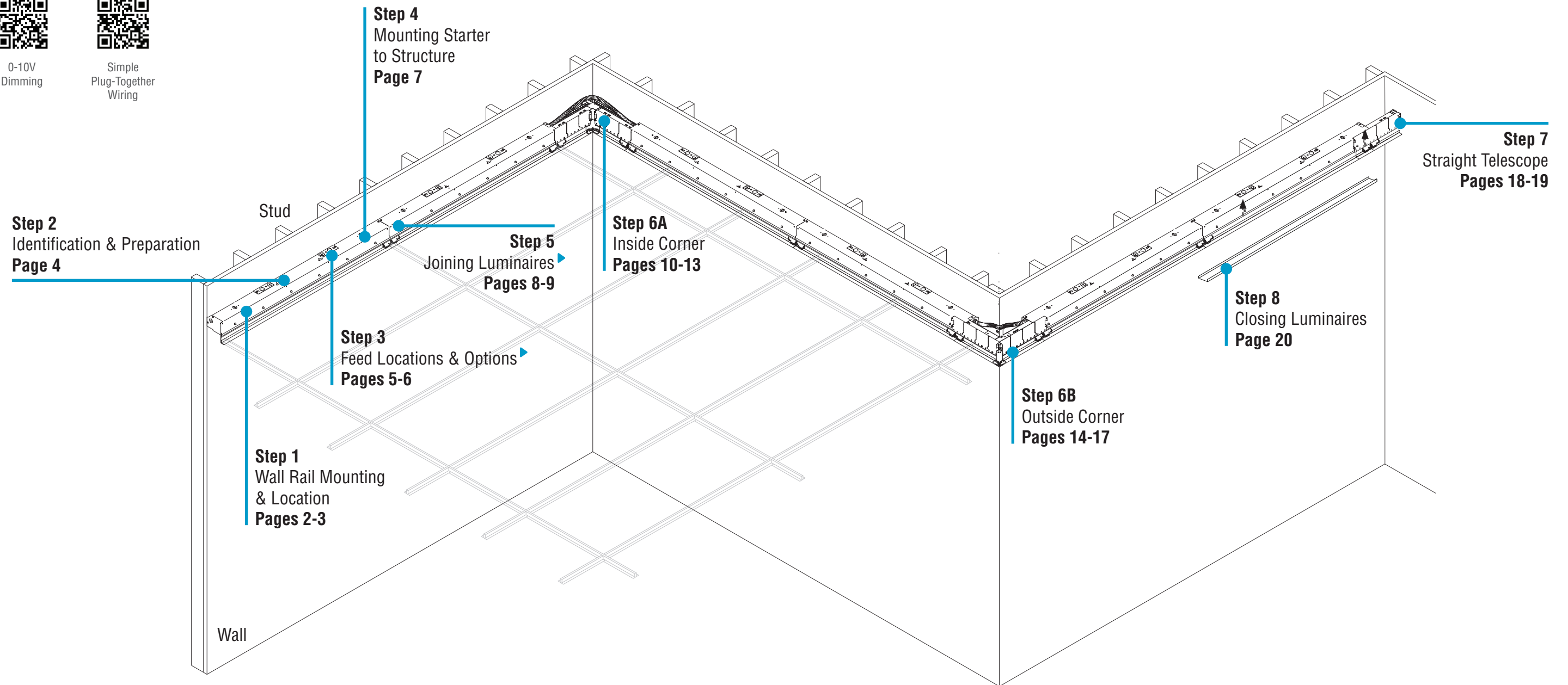
HELPFUL
VIDEOS



0-10V
Dimming



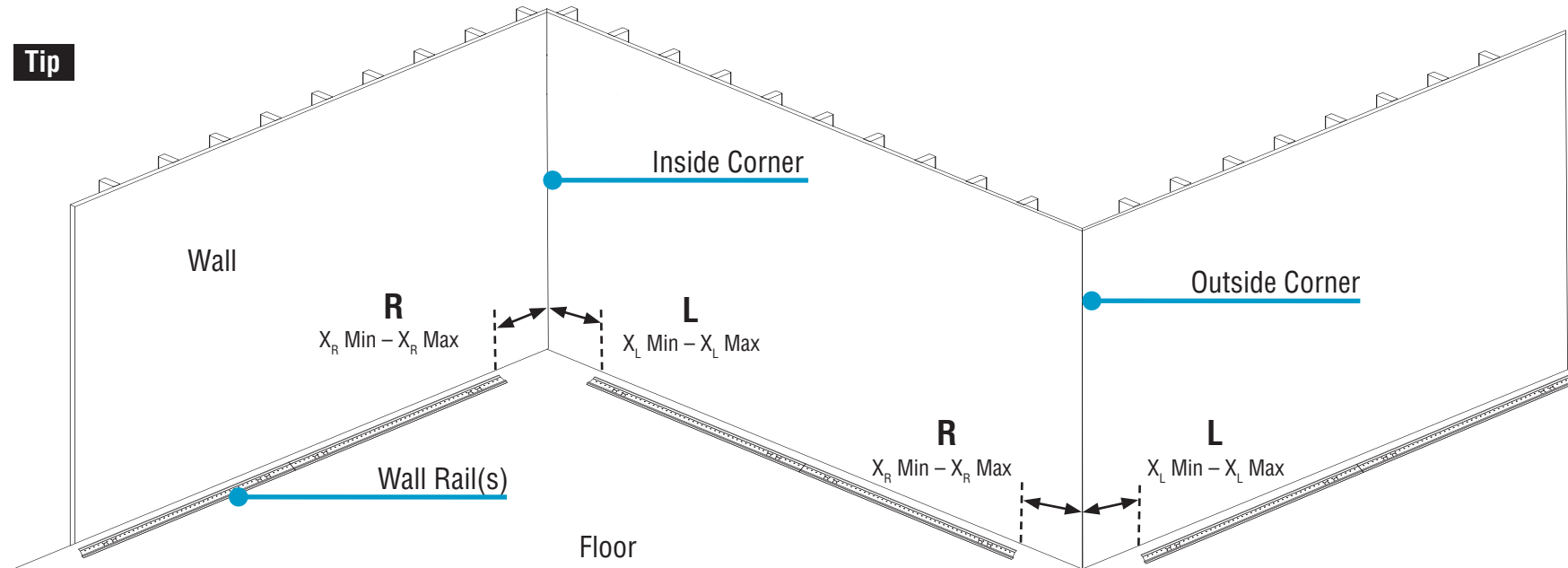
Simple
Plug-Together
Wiring



HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

Step 1 - Wall Rail Mounting Location

Tip



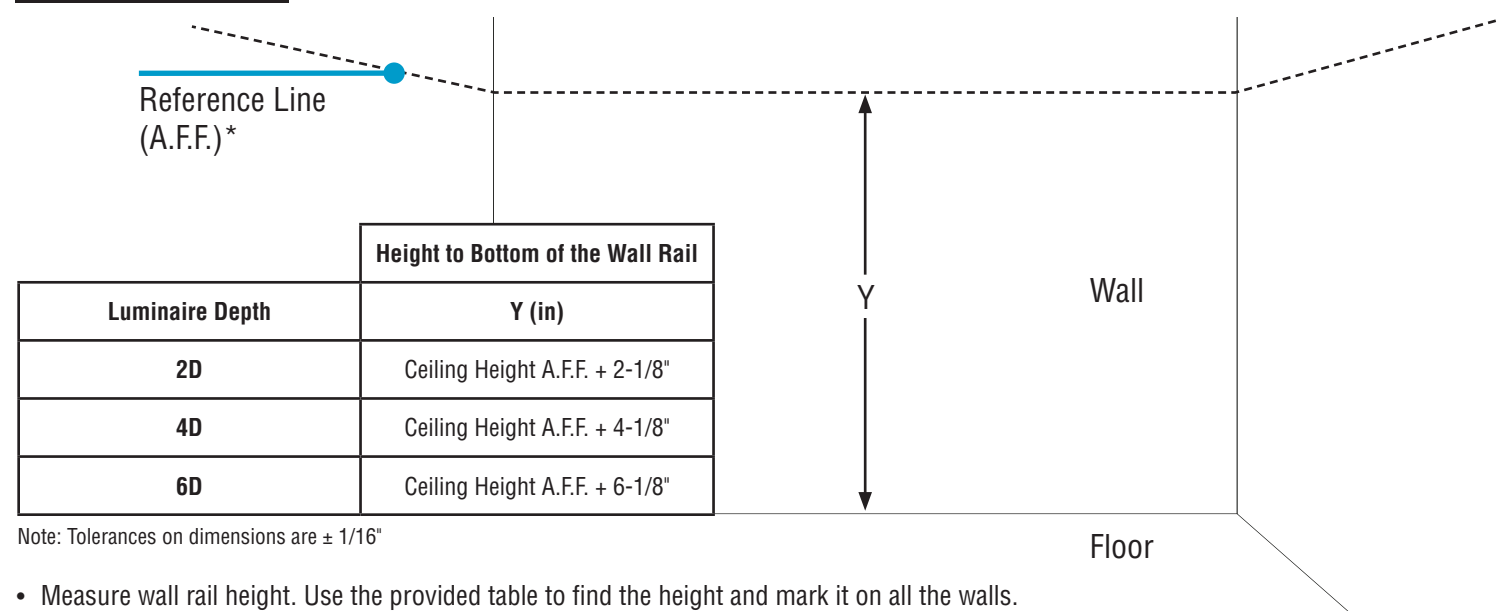
Distance between wall rail and nearest perpendicular wall.

Luminaire Width Configuration	Inside Corner: X_R Min - X_R Max = End of wall rail to wall	
	X_R Min	X_R Max
4"W	8"	14"
6"W	10"	16"

Luminaire Width Configuration	Outside Corner: X_L Min - X_L Max = End of wall rail to wall	
	X_L Min	X_L Max
4"W	1"	8"
6"W	1"	7"

- Lay out all wall rails on the floor in front of the wall they will be mounted on.
- Place them end-to-end, using the table to check the amount of gap you need between the end rails and their closest perpendicular wall, equal on each side.

A. Measure Height

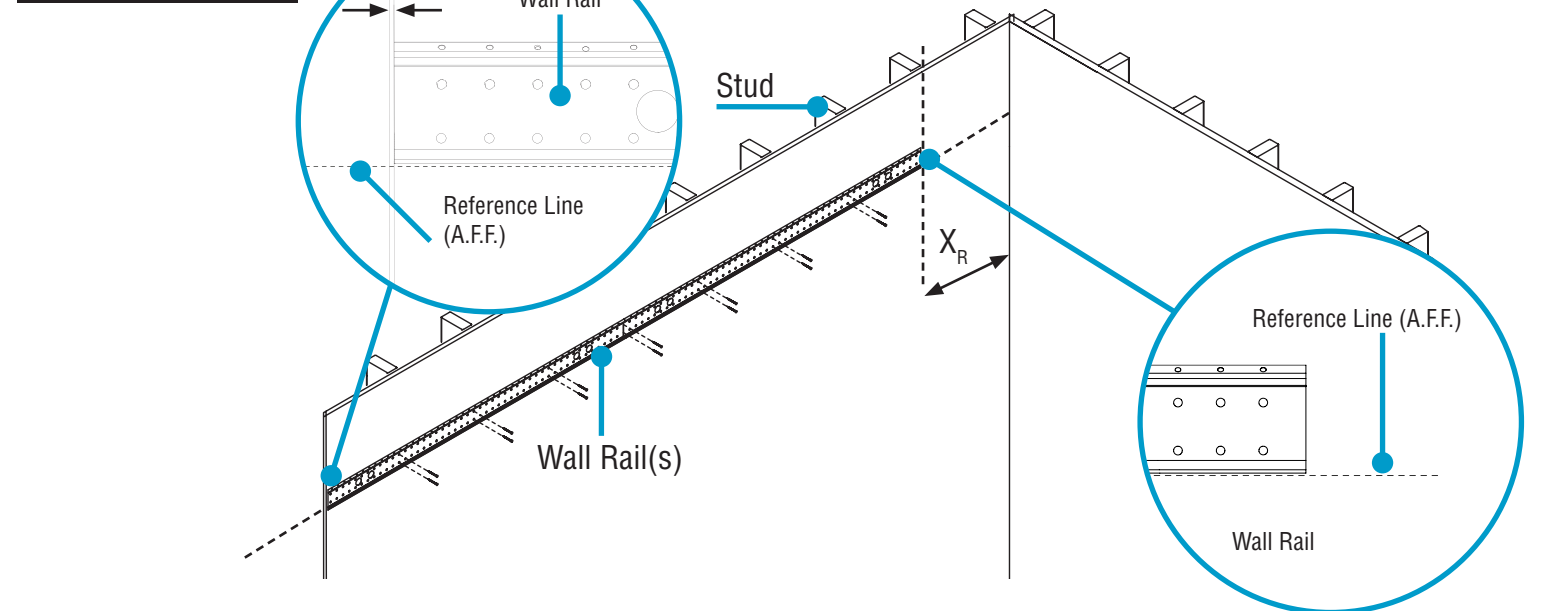


Note: Tolerances on dimensions are $\pm 1/16"$

- Measure wall rail height. Use the provided table to find the height and mark it on all the walls.

*A.F.F. - Above Finished Floor

B. Install Wall Rail



- Install the wall rail(s), using appropriate #10 screws to wall studs.
- **NOTE:** For X_R reference use chart above.

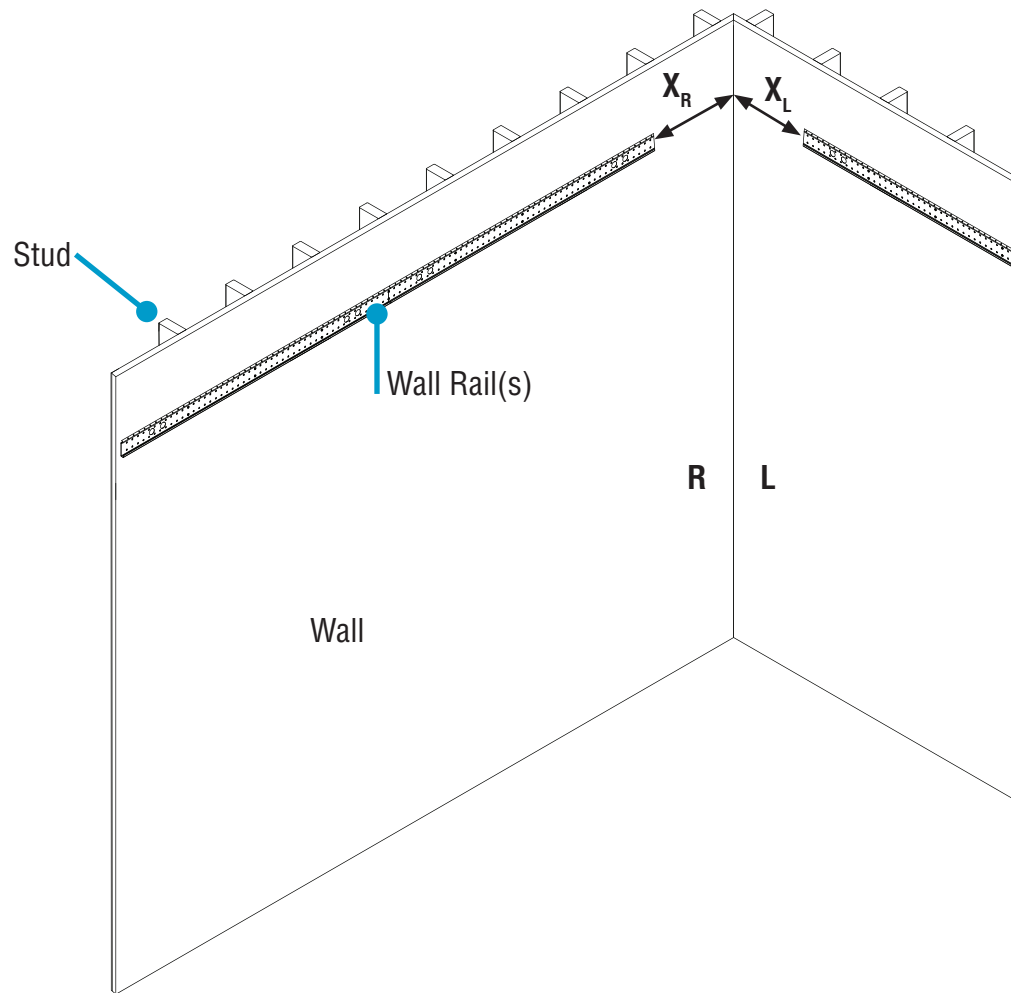
 #10 Screws
(by others)

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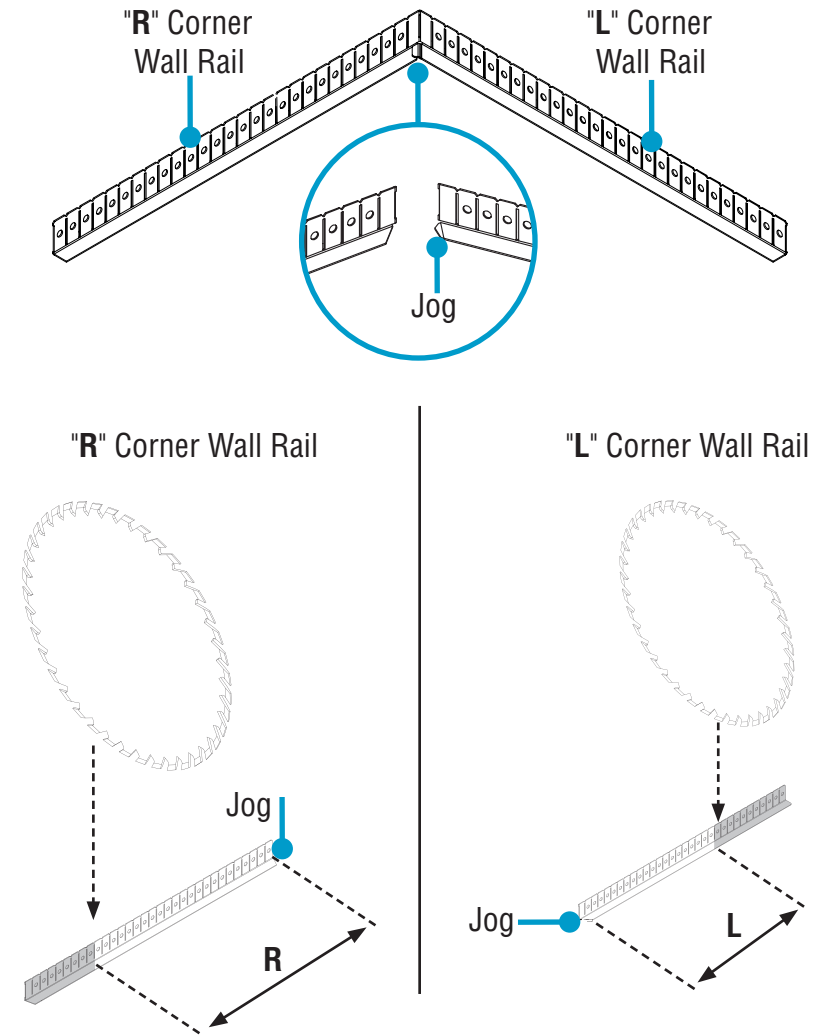
Step 1 - Wall Rail Mounting Location

C. Mounting



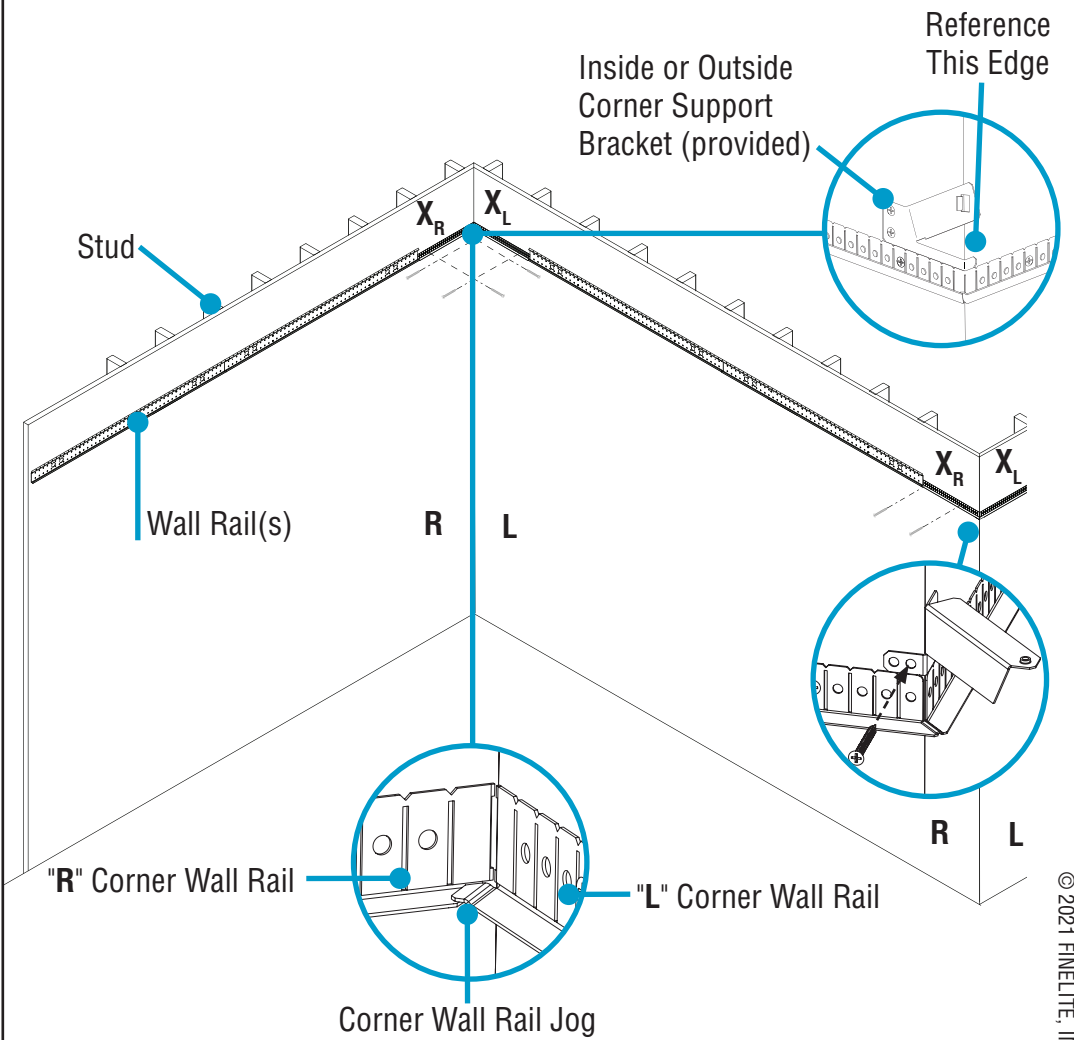
- Measure gaps X_L and X_R as indicated above.

D. Corner Wall Rail

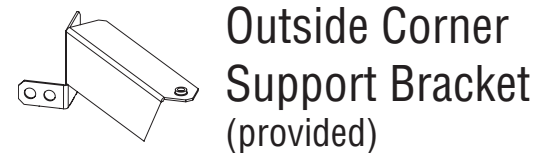
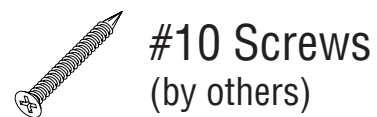


- Separate the corner wall rail in half.
- Using a chop saw (carbide tipped blade recommended) cut the L corner wall rail to length L, referencing the mitered end with a jog.
- Then cut the R corner wall rail to length R, referencing the mitered end.
- **CRITICAL:** Repeat Steps 1D and 1E for all walls.

E. Install Corner Wall Rails



- Install the corner wall rails using appropriate #10 screws.
- Where the corner wall rails meet at a corner, make sure the L corner wall rail jog feature overlaps the R corner wall rail.
- Install the wall support corner bracket by sitting it on top of the corner wall rails and using appropriate #10 screws to attach it to the corner.
- **CRITICAL:** Repeat for all corners.



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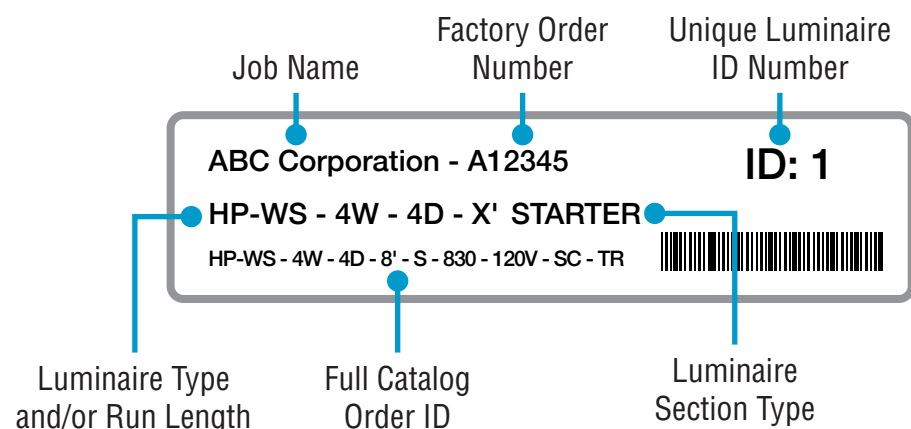
Step 2 - Identification & Preparation

A. Identify Luminaires

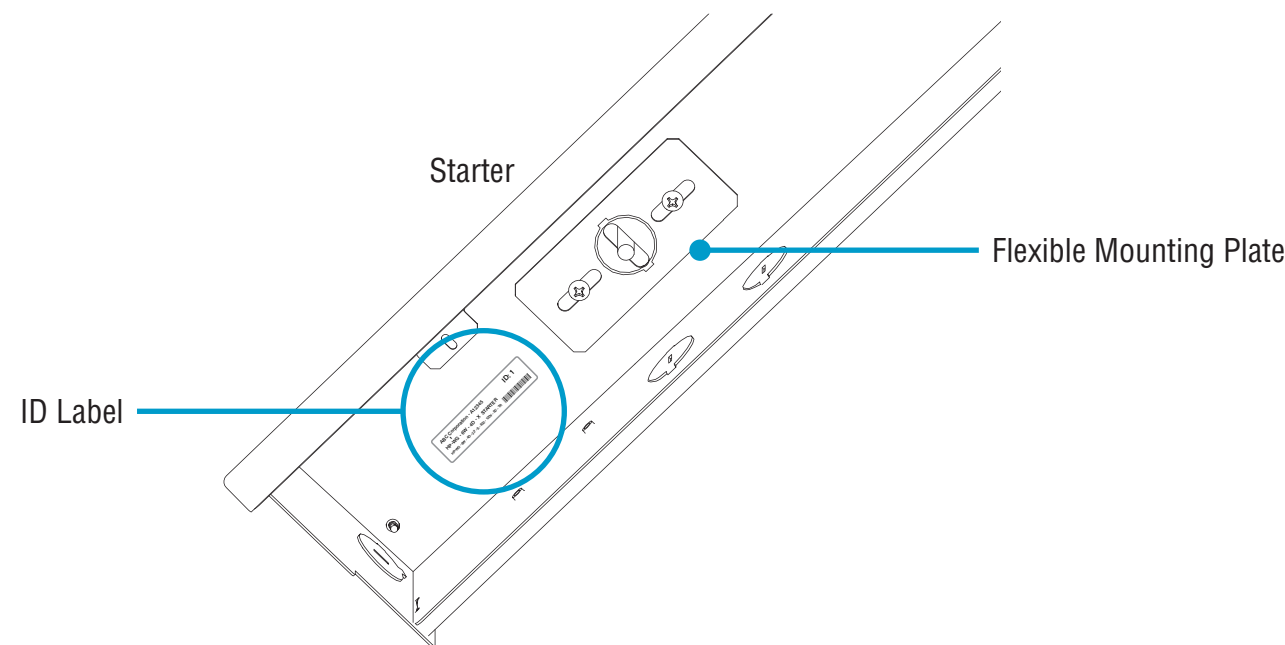


CAUTION

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



Bottom-Up View



- Identify all luminaires by their ID label that can be found on the box 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.

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.



#8-18 x 1/4" Screw

Part# 69026
 Feed Locations & Options p. 5, Step 3
 Mounting Starter to Structure p. 7-8, Step 4
 Joining Luminaires p. 9, Step 5
 Inside Corner p. 10-13, Step 6A
 Outside Corner p. 14-17, Step 6B
 Straight Telescope p. 19, Step 7
 Closing Luminaires p. 20, Step 8



#10-32 Screw

Part# 94144
 Feed Locations & Options p. 5, Step 3

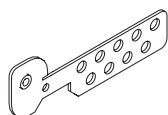


#4-24 x 1/4" Self-Drilling Screws

Part# 94416
 Mounting Starter to Structure p. 7, Step 4
 Closing Luminaires p. 20, Step 8

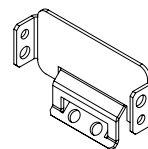


Nut
 Part# 62071
 Inside Corner p. 12, Step 6A
 Outside Corner p. 16, Step 6B



T-Bar Bracket

Part# 11303
 Closing Luminaires p. 20, Step 8



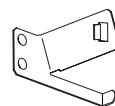
Extrusion Joiner Bracket

Part# 11302
 Inside Corner p. 12, Step 6A
 Outside Corner p. 16, Step 6B
 Straight Telescope p. 19, Step 7



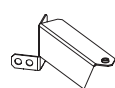
Extrusion Cut Guide

Part# 11999
 Inside Corner p. 11, Step 6A
 Outside Corner p. 15, Step 6B



Inside Corner Support Bracket

Part# 11905 - 4" Width
 Part# 11906 - 6" Width
 Wall Rail Mounting Location p. 3, Step 1
 Inside Corner p. 10, Step 6A



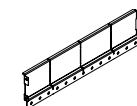
Outside Corner Support Bracket

Part# 11919 - 4" Width
 Part# 11920 - 6" Width
 Wall Rail Mounting Location p. 3, Step 1



Corner Telescope T-Bar Extrusion

Part# 11923
 Inside Corner p. 11-12, Step 6A
 Outside Corner p. 15, Step 6B
 Straight Telescope p. 19, Step 7



Telescope Vertical Cover

Part# 11894 - 2" Depth
 Part# 11895 - 4" Depth
 Part# 11896 - 6" Depth
 Inside Corner p. 13, Step 6A
 Outside Corner p. 17, Step 6B



Outside Telescope Vertical Cover Joiner Bracket

Part# 11913 - 2" Depth
 Part# 11914 - 4" Depth
 Part# 11915 - 6" Depth
 Outside Corner p. 17, Step 6B



Brush Gasket

Part# 11869
 Inside Corner p. 12-13, Step 6A
 Outside Corner p. 16-17, Step 6B



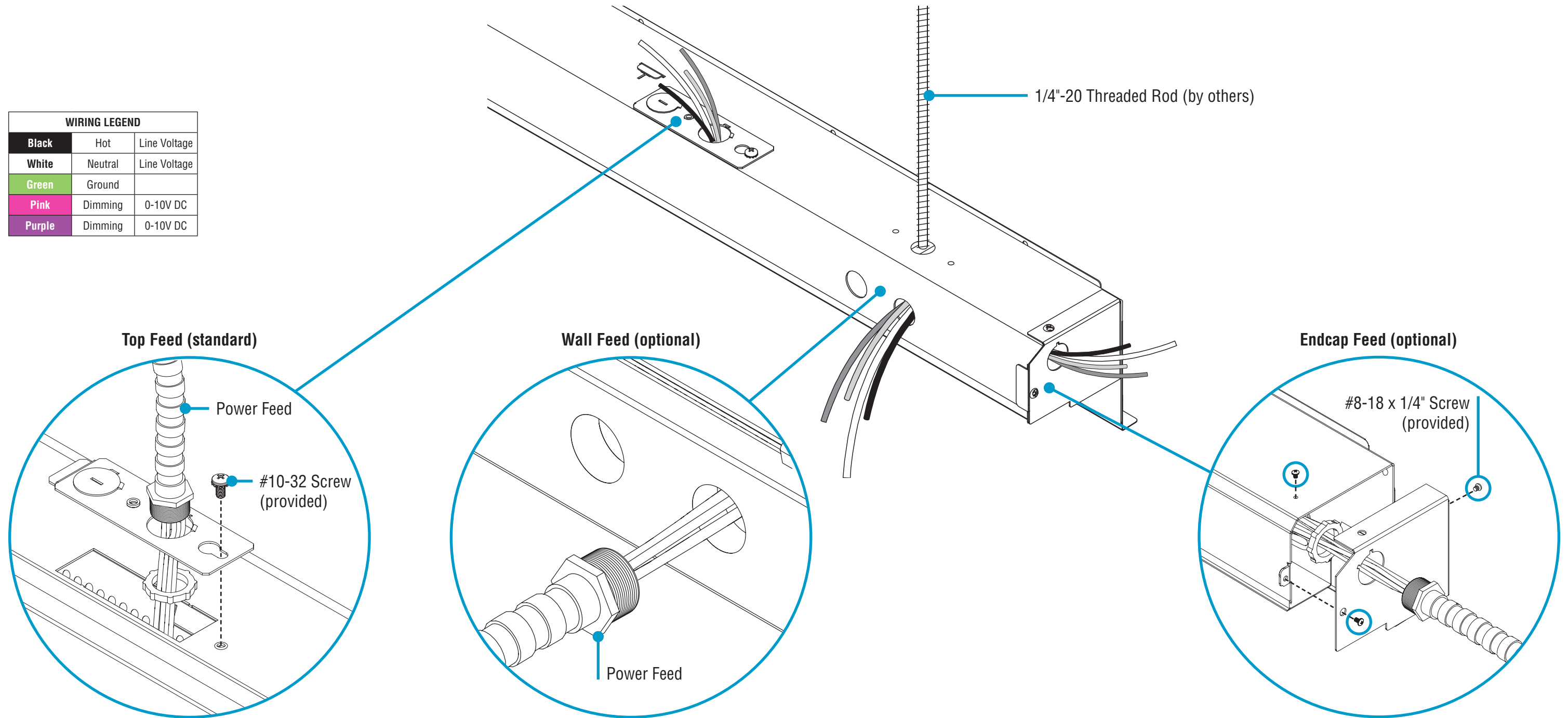
Inside Telescope Vertical Cover Joiner Bracket


Part# 11902 - 2" Depth
 Part# 11903 - 4" Depth
 Part# 11904 - 6" Depth
 Inside Corner p. 13, Step 6A


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Step 3 - Feed Locations & Options

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



 #8-18 x 1/4" Screw (provided)

 #10-32 Screw (provided)

CONTINUED



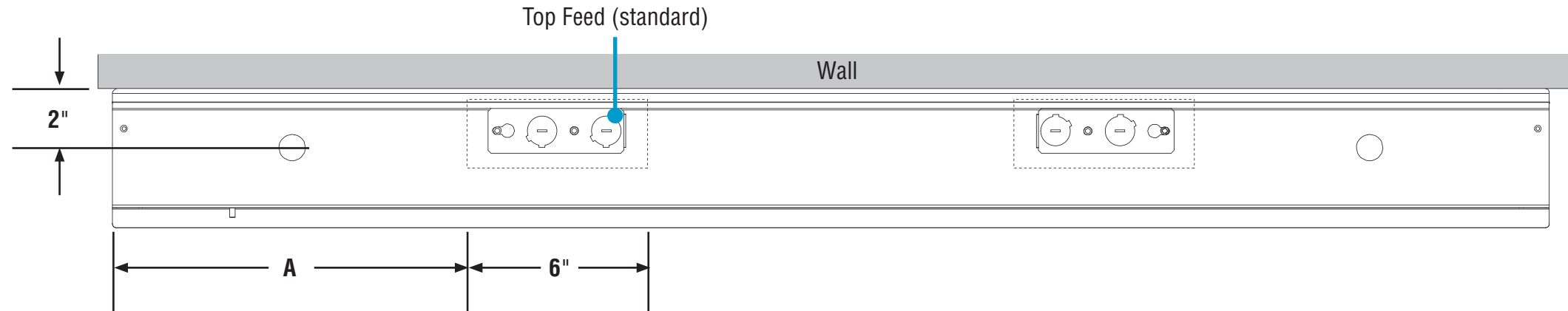
0-10V Dimming

HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

Step 3 - Feed Locations & Options

Top Feed Top View

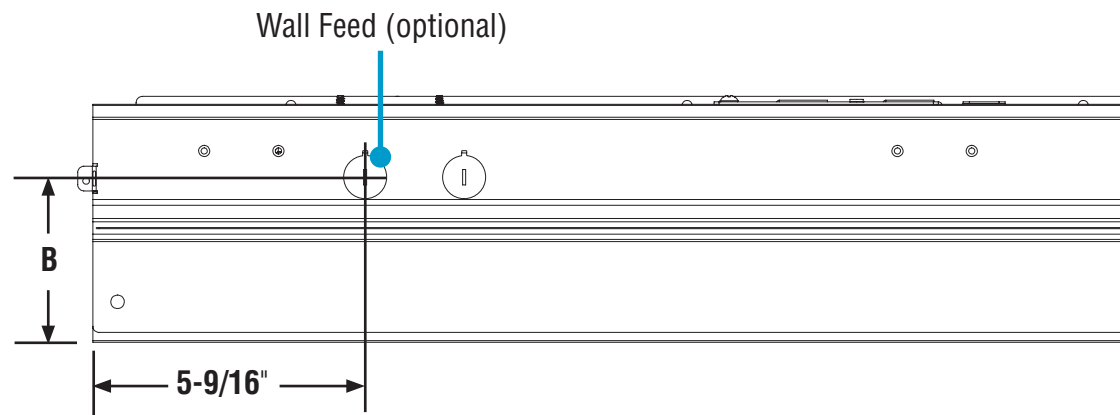
Luminaire Length	A (in)
2'	5
3'	5
4'	12
8'	12



Top Feed Location (standard)

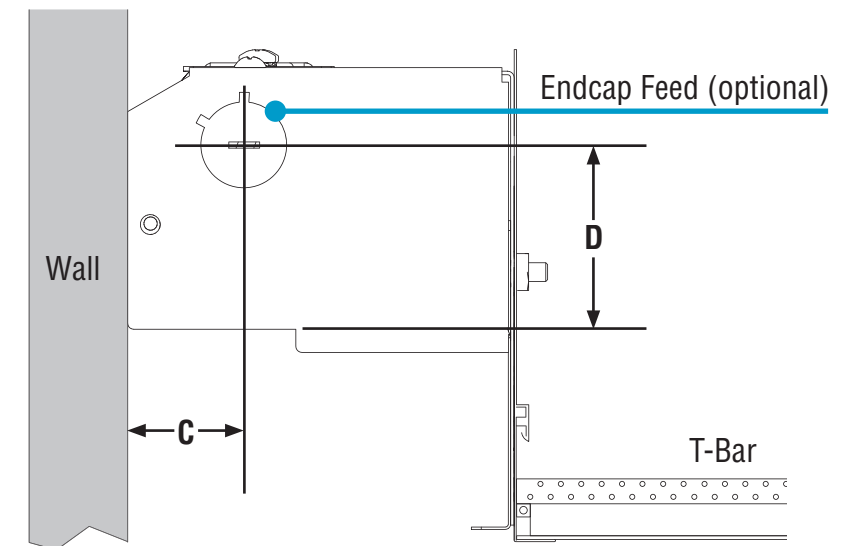
- Use chart above to find measurement of **A** for feed location.
- NOTE:** For tailored length luminaire power feed locations, contact factory.

Wall Feed Back View



Luminaire Depth	B (in)
2"	3-5/16
4"	5-5/16
6"	7-5/16

Endcap Feed Side View

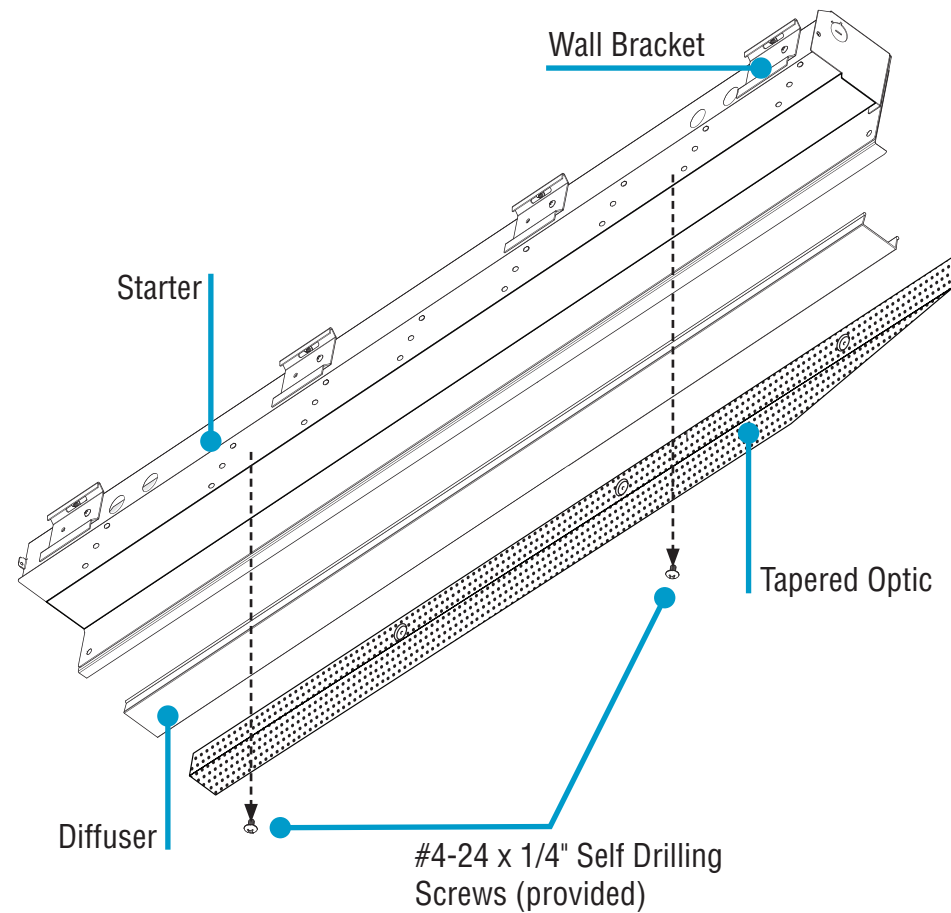


Luminaire Width	C (in)	D (in)
4"	1-3/16	1-7/8
6"	2	1-7/8

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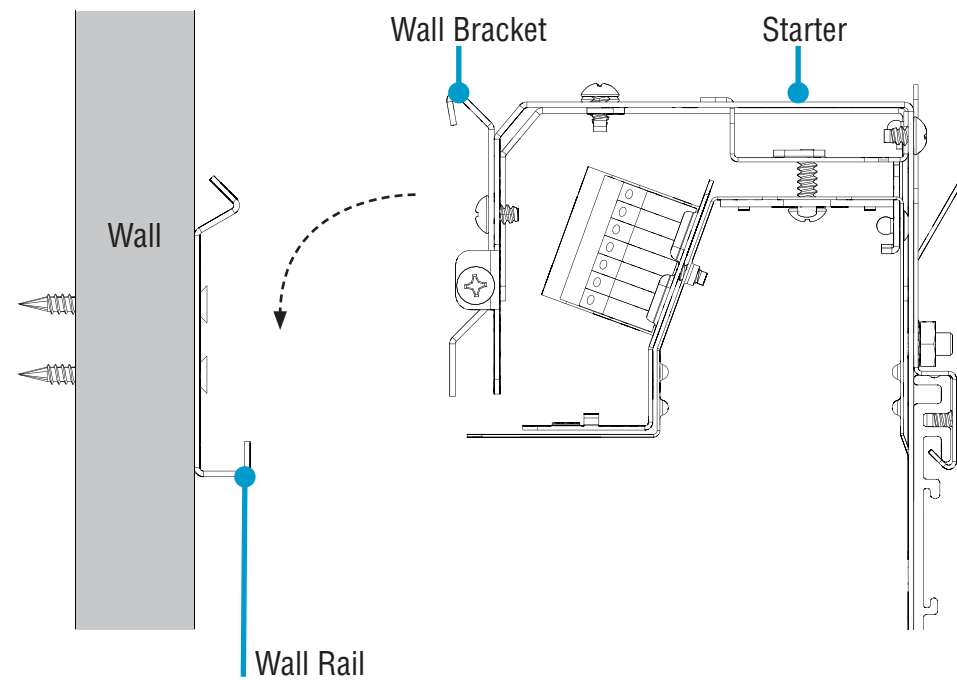
Step 4 - Mounting Starter to Structure

A. Remove Tapered Optic & Diffuser Bottom-Up View



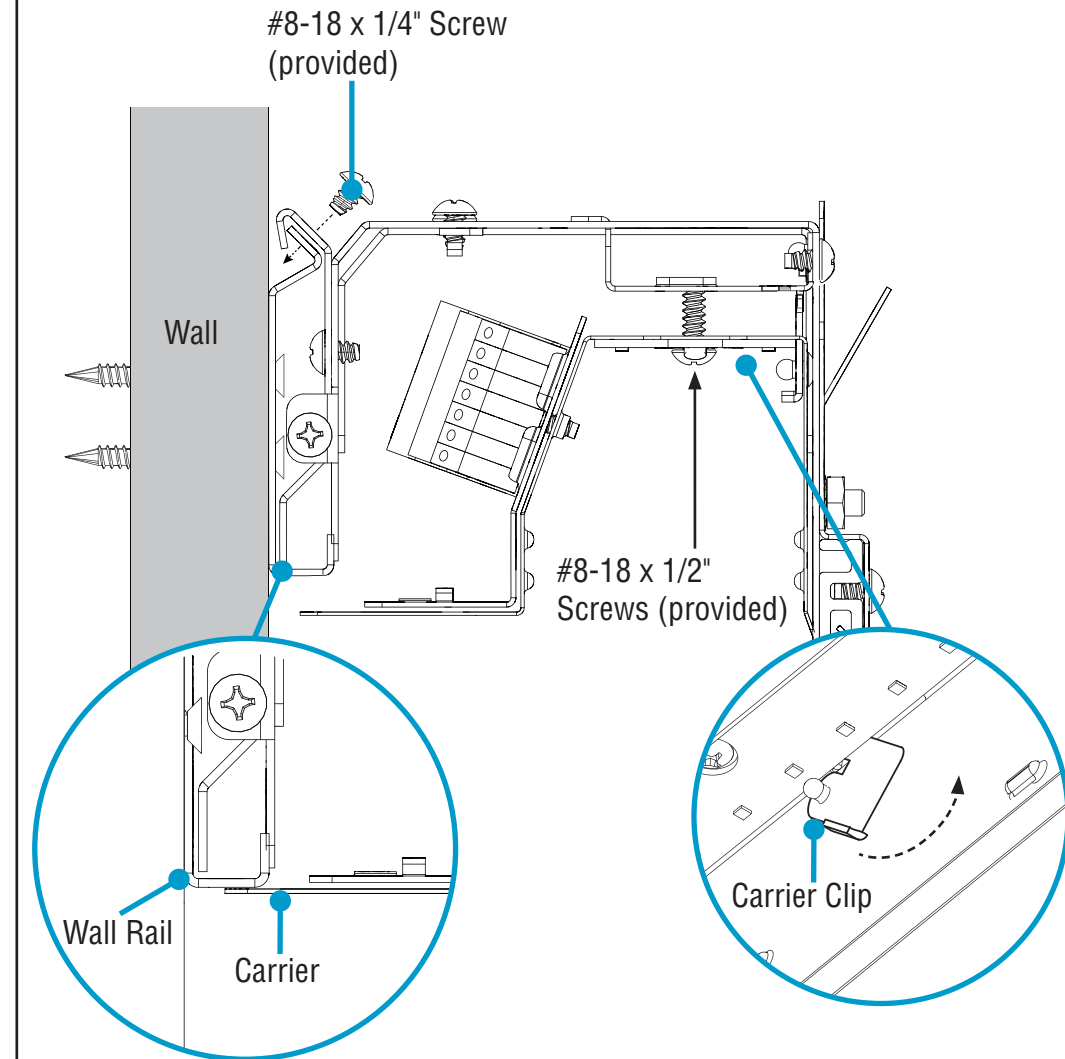
- Make electrical connections according to feed location and options.
- If using tapered optics, remove #4-24 x 1/4" self drilling screws. Set screws aside.
- Remove diffusers and set aside to prevent them from getting dirty or damaged.

B. Mounting on the Wall Rail Side View





- Mount starter luminaire to wall rail by ensuring wall bracket grabs top of wall rail.
- Align end of starter luminaire to start of main wall rail.


C. Mounting on the Wall Rail Side View



- On the starter luminaire, tighten the #8-18 x 1/2" screws that go through the carrier assembly until the carrier meets the bottom surface of the wall rail.
- Secure the starter luminaire to the wall rail with the #8-18 x 1/4" screws going through the wall brackets.
- Secure all carrier clips by rotating them 90° degrees counter-clockwise.

 #4-24 x 1/4" Self Drilling Screws (provided)

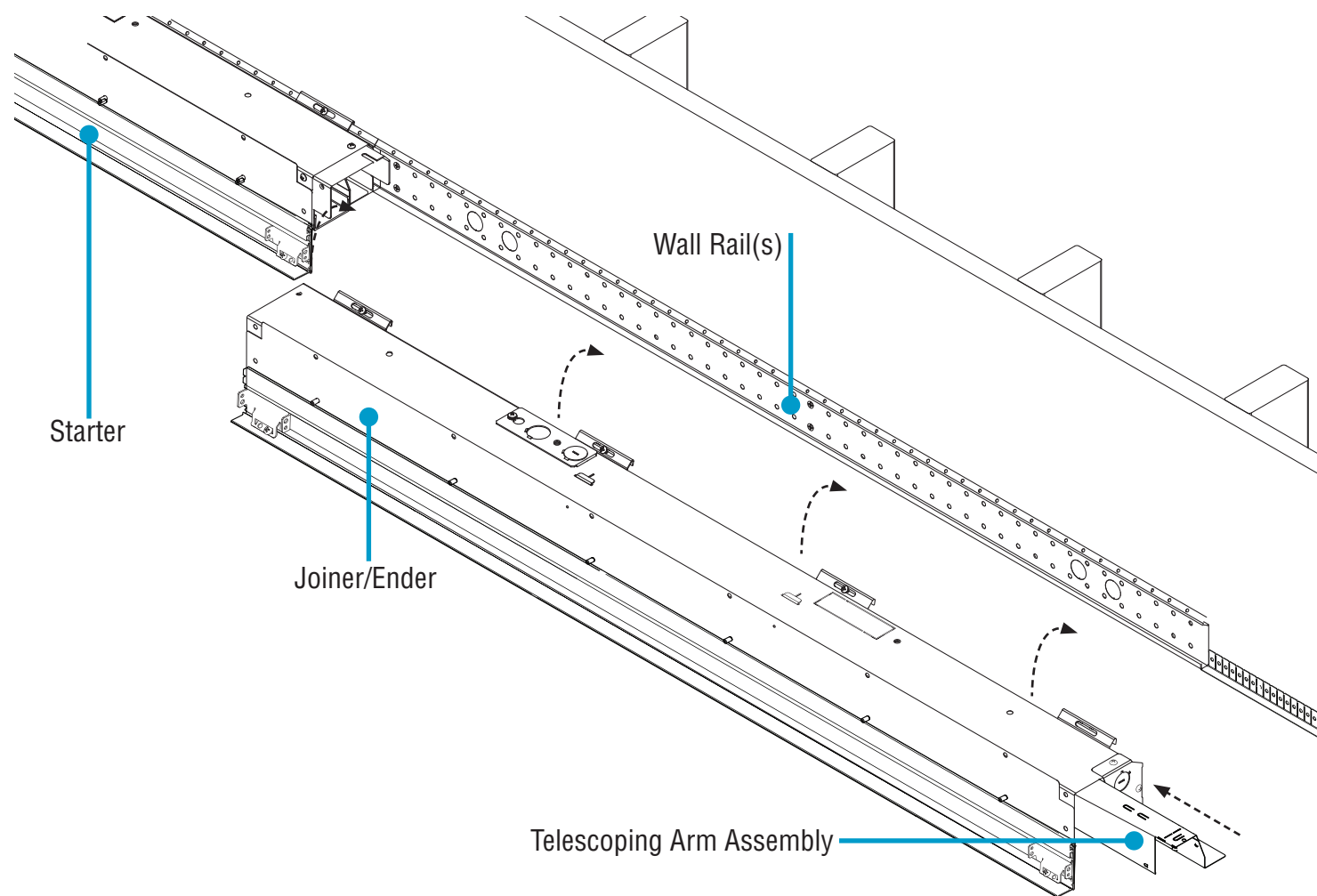
 #8-18 x 1/4" Screw(s) (provided)

 #8-18 x 1/2" Screw(s) (provided)


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Step 5 - Joining Luminaires

A. Align Starter and Joiner/Ender Top View

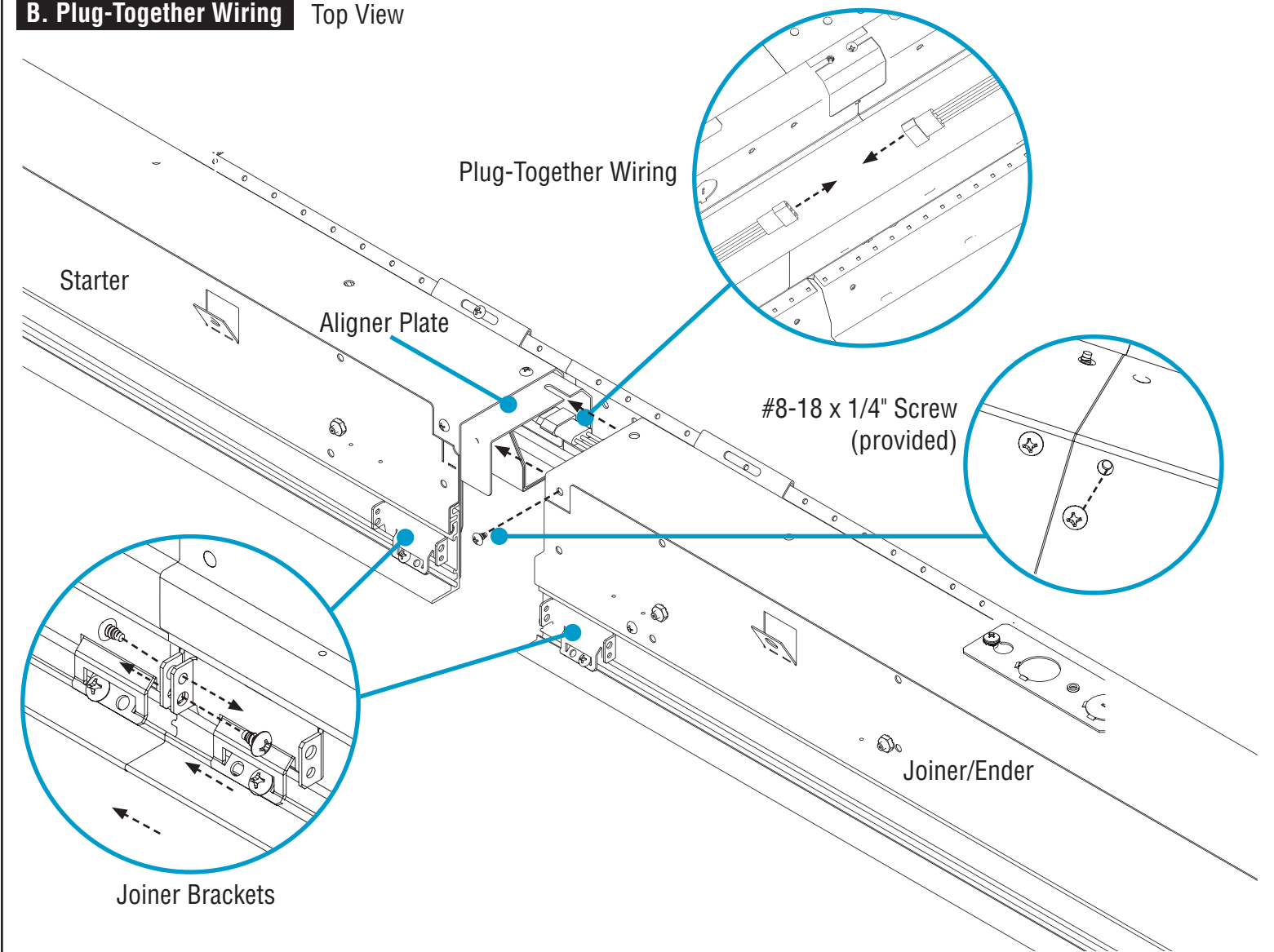


- **CRITICAL:** If your joiner/ender has a telescoping arm assembly, retract it to ensure it will not be damaged during install.
- Mount the luminaire to the wall rail as shown. Make sure the wall brackets grab the top of the wall rail.

 #8-18 x 1/4" Screw(s)
(provided)

 Extrusion Joiner Bracket
(provided)

B. Plug-Together Wiring Top View



- Connect the plug-together wiring.
- Slide the joiner/ender luminaire over the aligner plate on the installed luminaire.
- Make sure the holes are aligned on the plate, then fasten the joiner/ender luminaire to the aligner plate using #8-18 x 1/4" screw.

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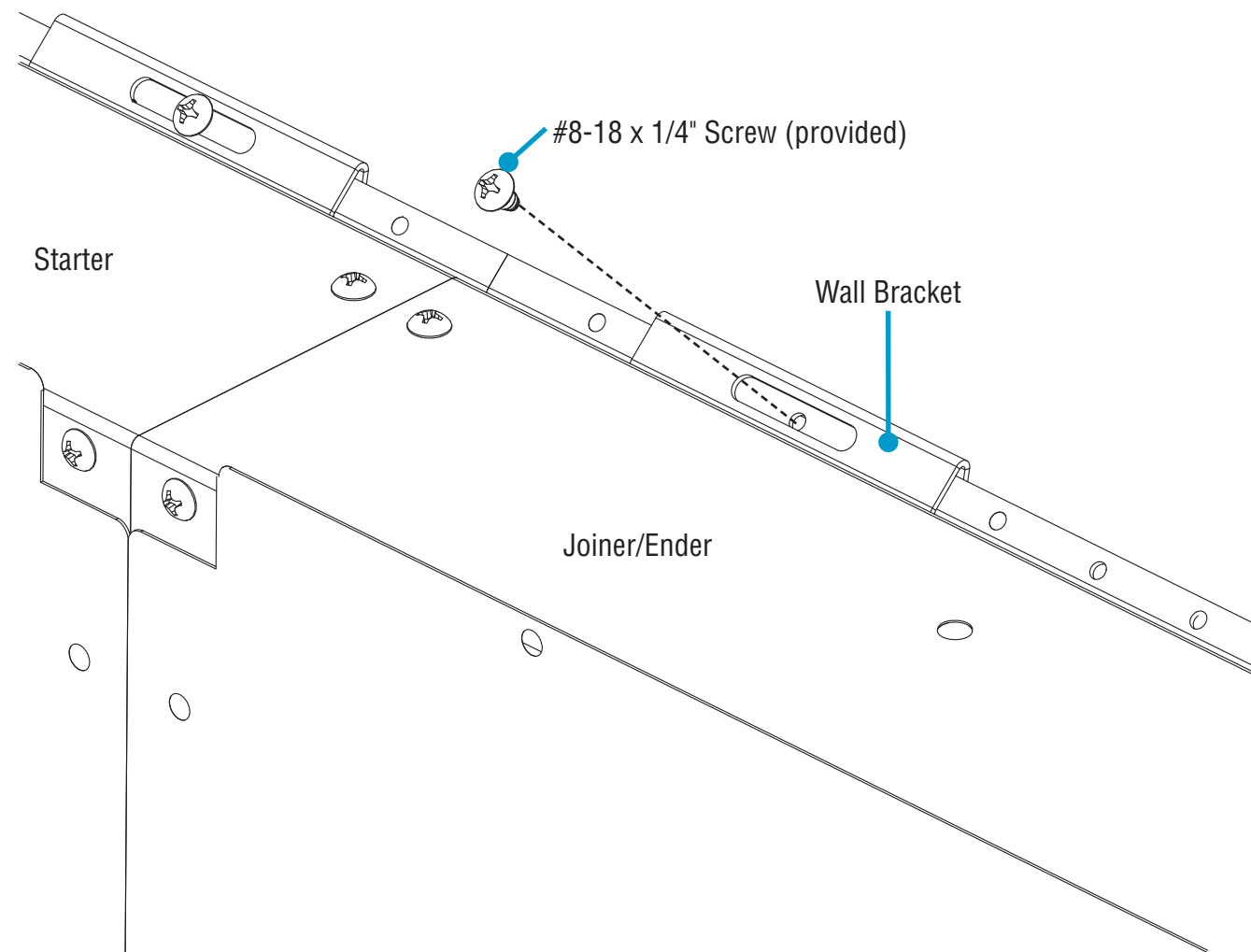
Simple
Plug-Together
Wiring

8 of 20


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Step 5 - Joining Luminaires

C. Secure Joiner/Ender Top View

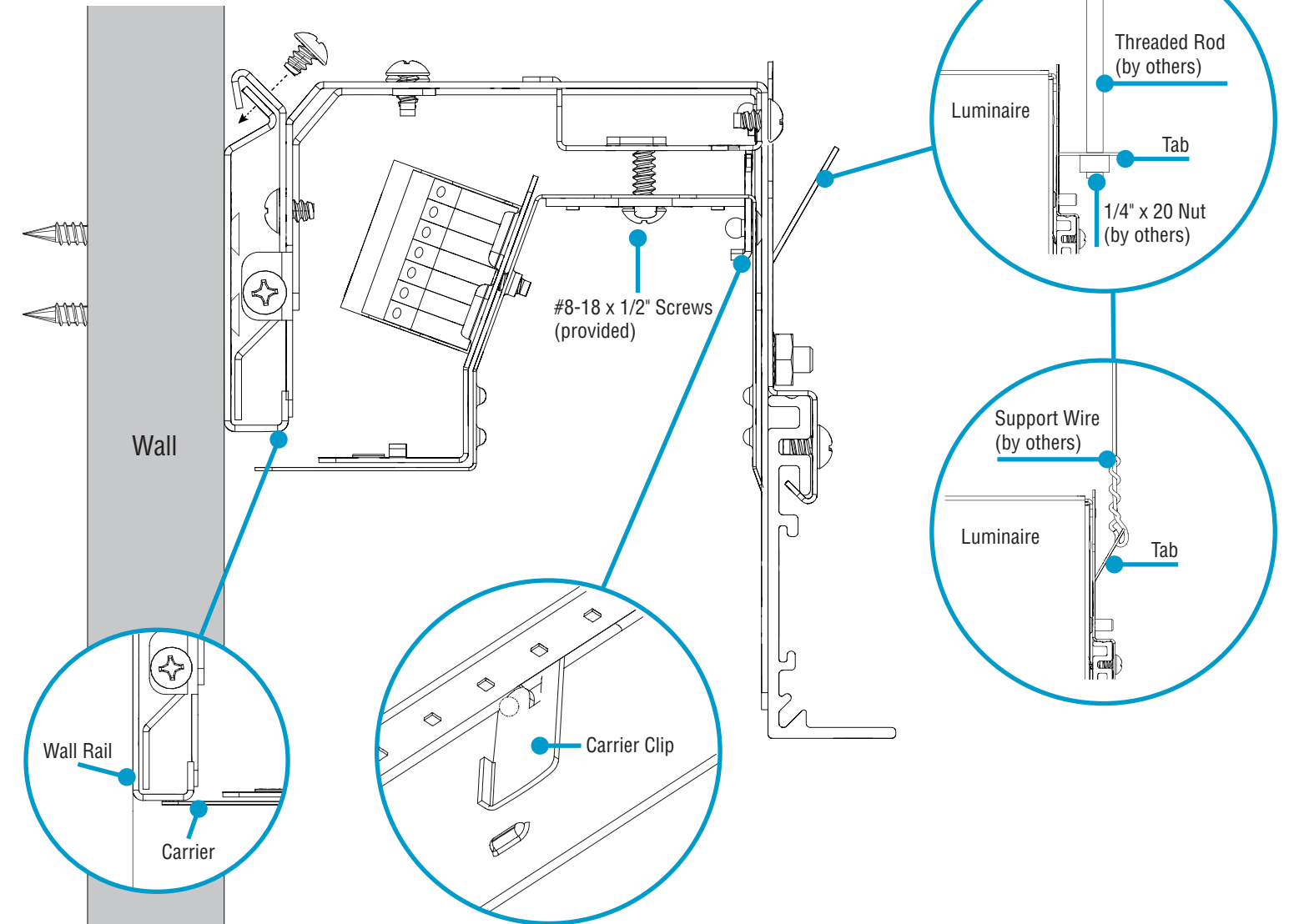


- Secure the joiner/ender luminaire to the wall rail with #8-18 x 1/4" screws going through the wall brackets.
- Repeat Step 5 if you have a long run with more luminaires on the same wall.
- Repeat Step 4 for the next wall.

 #8-18 x 1/4" Screw(s)
(provided)

 #8-18 x 1/2" Screw(s)
(provided)

D. Secure the Carrier Assembly Side View

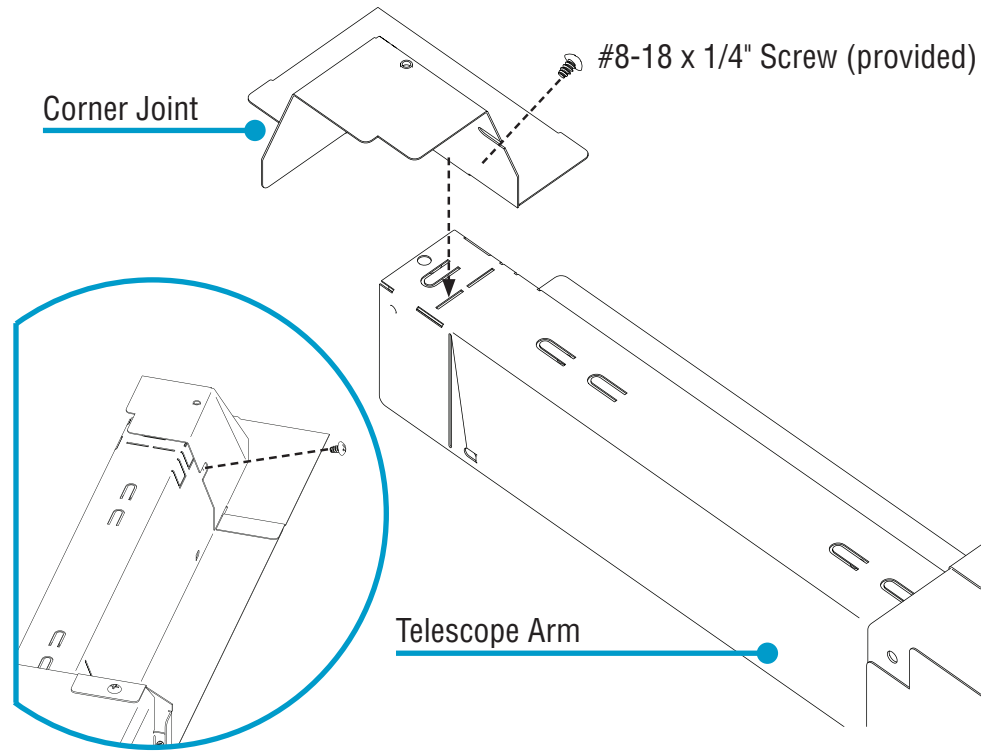


- On all mounted luminaires, tighten the #8-18 x 1/2" screws that go through the carrier assembly until the carrier meets the bottom surface of the wall rail.
- Secure carrier clips by rotating them 90° degrees counter-clockwise.
- Secure the starter luminaire to structure by using tie-wire or 1/4"-20 threaded rod on all support tabs.

HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

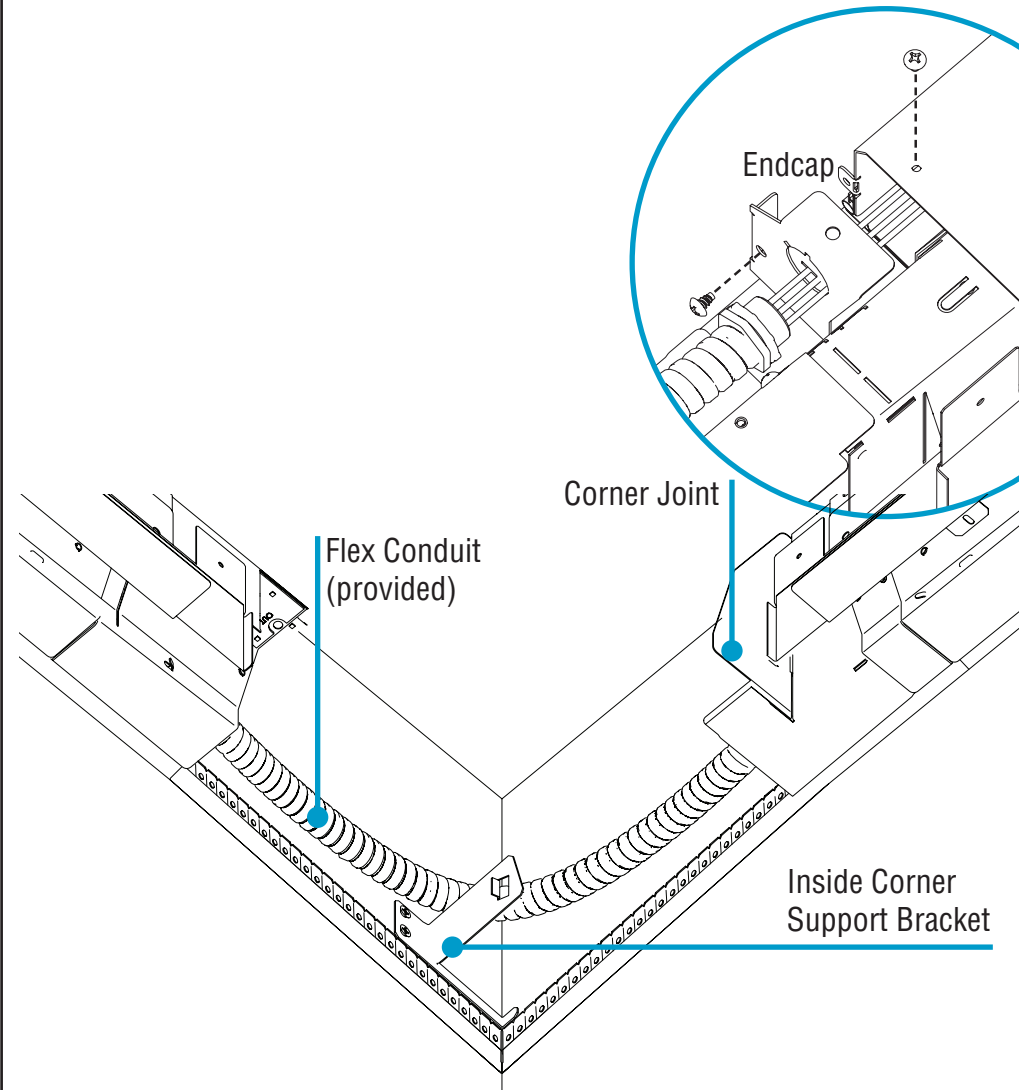
Step 6A - Inside Corner

A. Connect Corner Joint Top-Down View



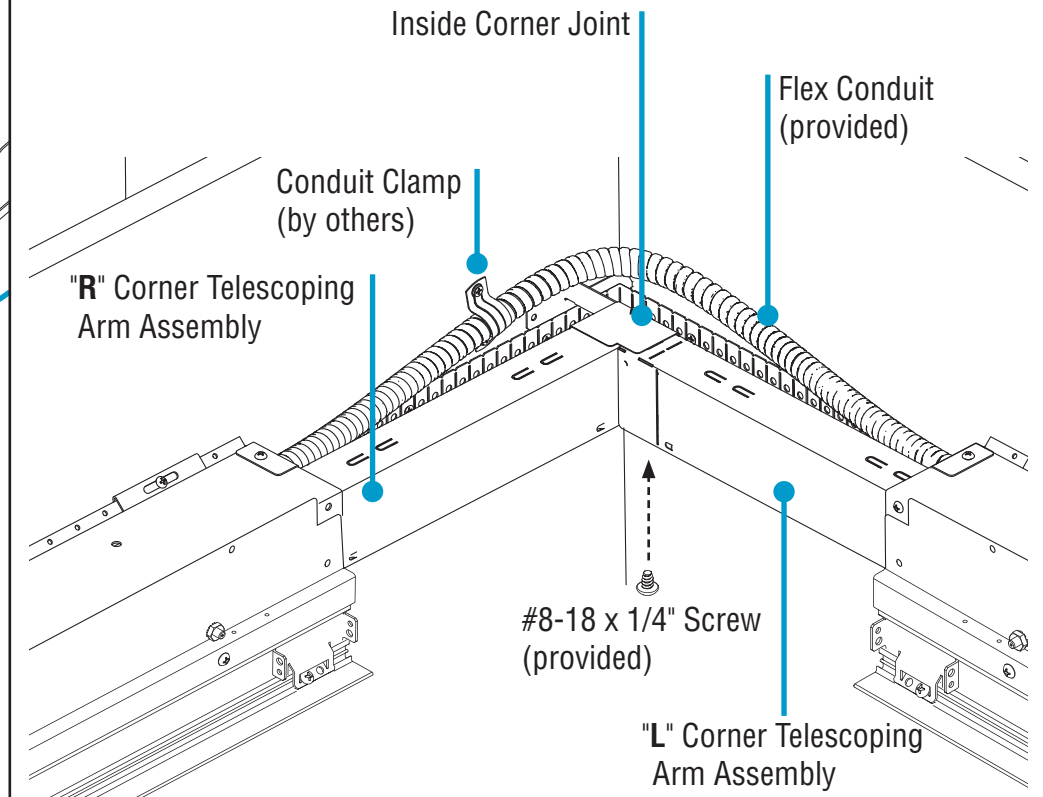
- Connect the corner joint to the right telescope arm using #8-18 x 1/4" screw.

B. Connect Flex Conduit Bottom-Up View




- Connect the through wiring using flex conduit and make sure the flex conduit goes above the corner support bracket.
- To connect flex conduit, remove two #8-18 x 1/4" screws from telescope endcaps for access.

C. Connect Flex Conduit Top-Down View



- For all non-power feed corners that need through wiring, connect the wiring for the two wall runs using a flex conduit and telescope endcaps.
- The endcaps are connected using #8-18 x 1/4" screws.
- Connect wiring from both luminaire ends to the flex conduit.
- Then, extend the telescoping arm assembly from the luminaire on the L corner up until it meets the wall support corner bracket.
- Extend the telescoping arm assembly from the luminaire on the R corner so it aligns with the inside corner joint as shown.
- Pin the telescoping arms together from below the luminaire using a #8-18 x 1/4" screw.

 #8-18 x 1/4" Screw(s) (provided)

 Inside Corner Support Bracket (provided)

 Flex Conduit (by others)

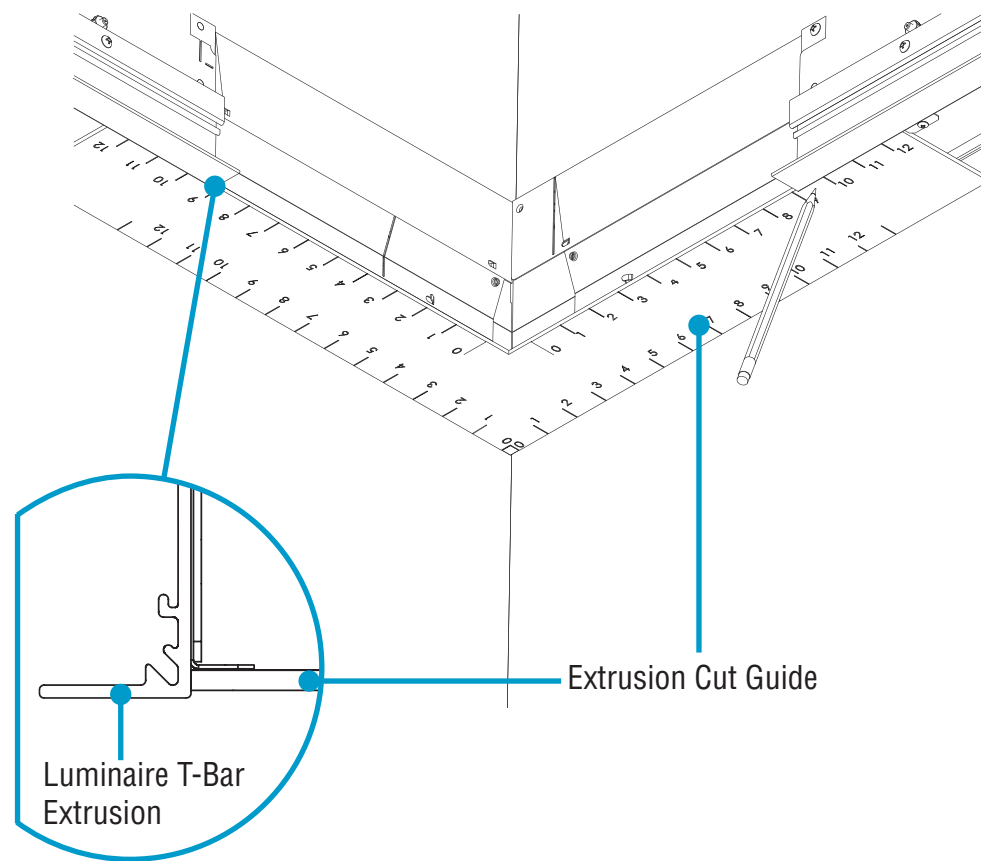
 Conduit Clamp (by others)

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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

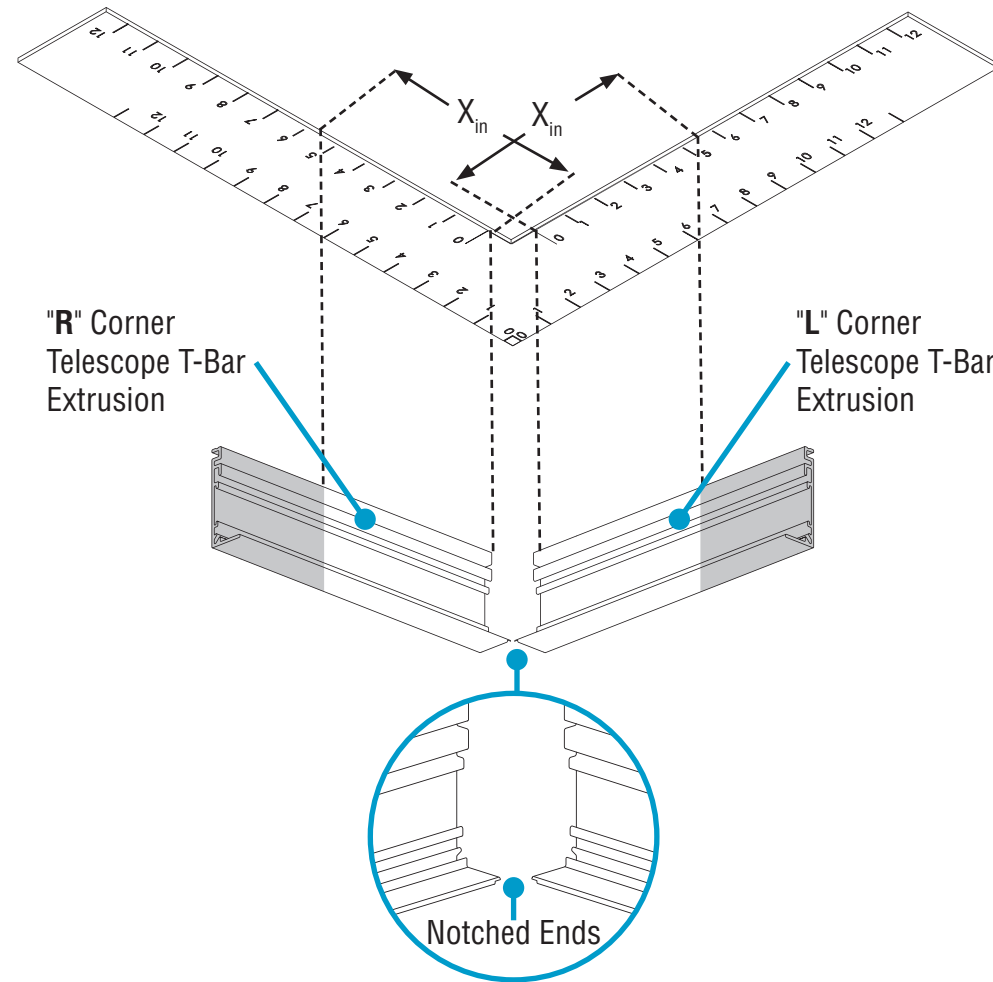
Step 6A - Inside Corner

D. Extrusion Cut Guide Bottom-Up View



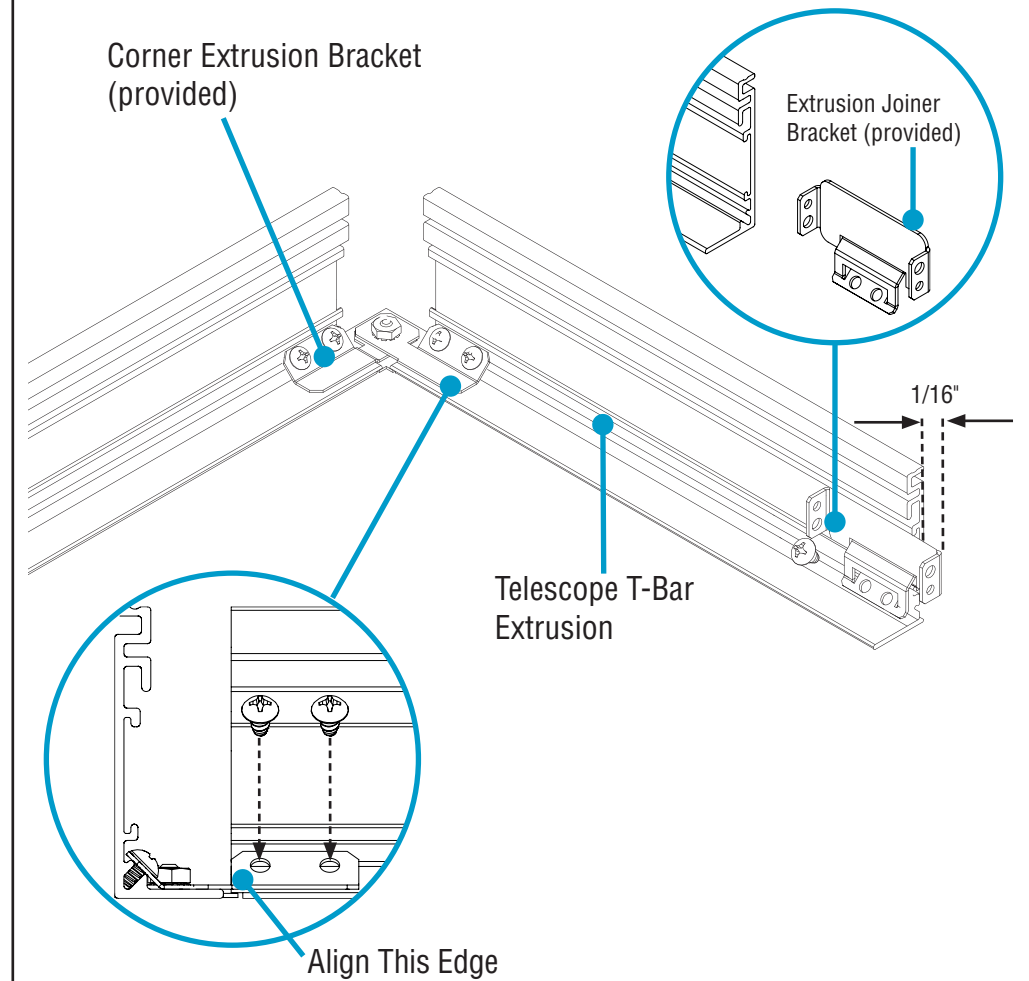
- Use the extrusion cut guide by placing it on the inner-side of the luminaire T-Bar extrusion just above the T-Bar flange.
- Mark where the extrusion ends for both sides.

E. Cut Telescope T-Bar Extrusion to Length

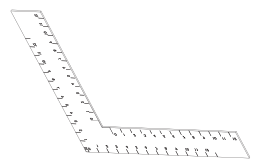


- Use the measurements found in the previous step to cut the telescope T-Bar extrusions to length.

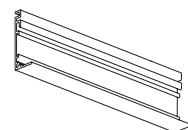
F. Telescope T-Bar Extrusion Subassembly Top-Down View



- Make sure the corner extrusion bracket is fastened to both pieces of the telescope T-Bar extrusion by lining up the bracket to the edge of the extrusion.
- Fasten using #8-18 x 1/4" screws.
- Slide the extrusion joiner bracket into the telescope T-Bar extrusion as shown.
- Pin with #8-18 x 1/4" screws.
- Make sure to leave a 1/16" gap from the extrusion joiner bracket to the end of the telescope T-Bar extrusion.



Extrusion Cut Guide
(provided)



Corner Telescope
T-Bar Extrusion
(provided)



#8-18 x 1/4" Screw(s)
(provided)

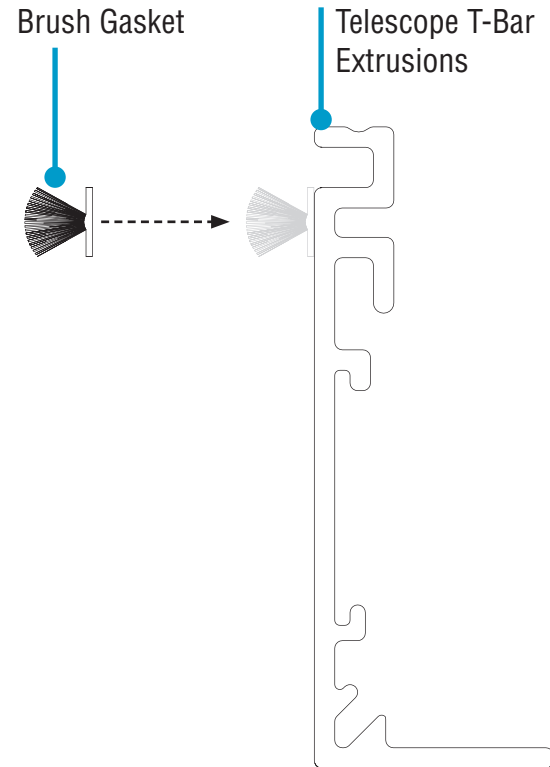
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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

Step 6A - Inside Corner

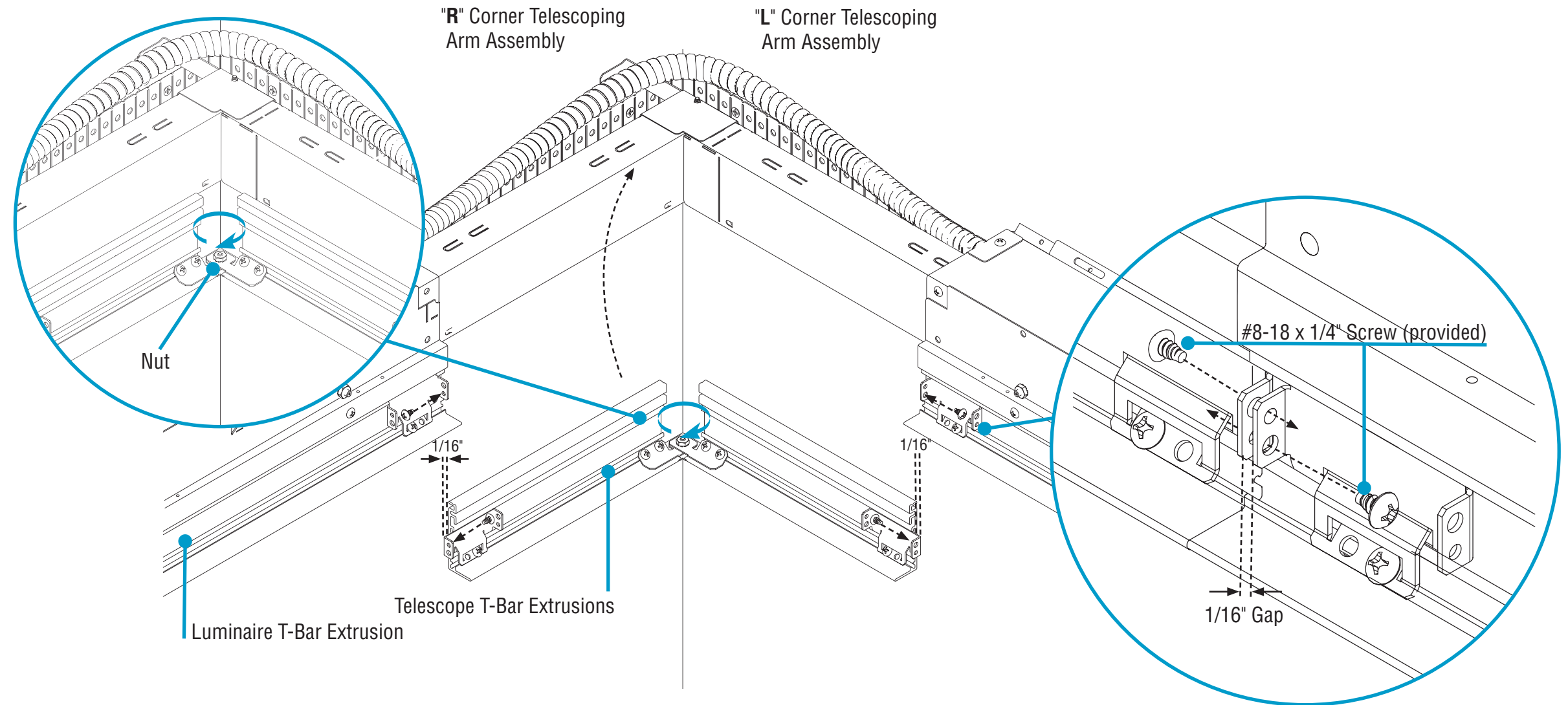
G. Brush Gasket Installation - 2" Depth

! Luminaire with 2" depth - brush gasket install on extrusion bracket only

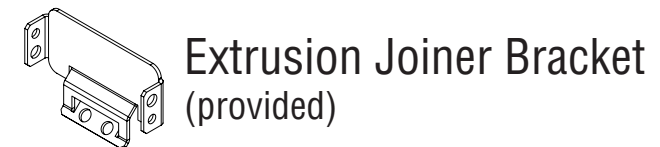
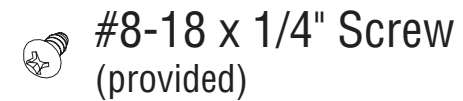
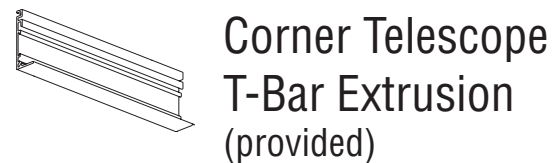


- Remove adhesive backing from brush gasket to expose the adhesive.
- Attach brush gasket to the top of the telescope T-Bar extrusions, near the open channel as shown above.

H. Attach Telescope T-Bar Extrusion Top-Down View



- Join the telescope T-Bar extrusions to the luminaire T-Bar extrusions using #8-18 x 1/4" screws to pull together the adjacent extrusion joiner brackets.
- Leave a 1/16" gap between the two extrusion joiner brackets.
- Tighten nut to solidify telescope T-Bar extrusion corner joint.

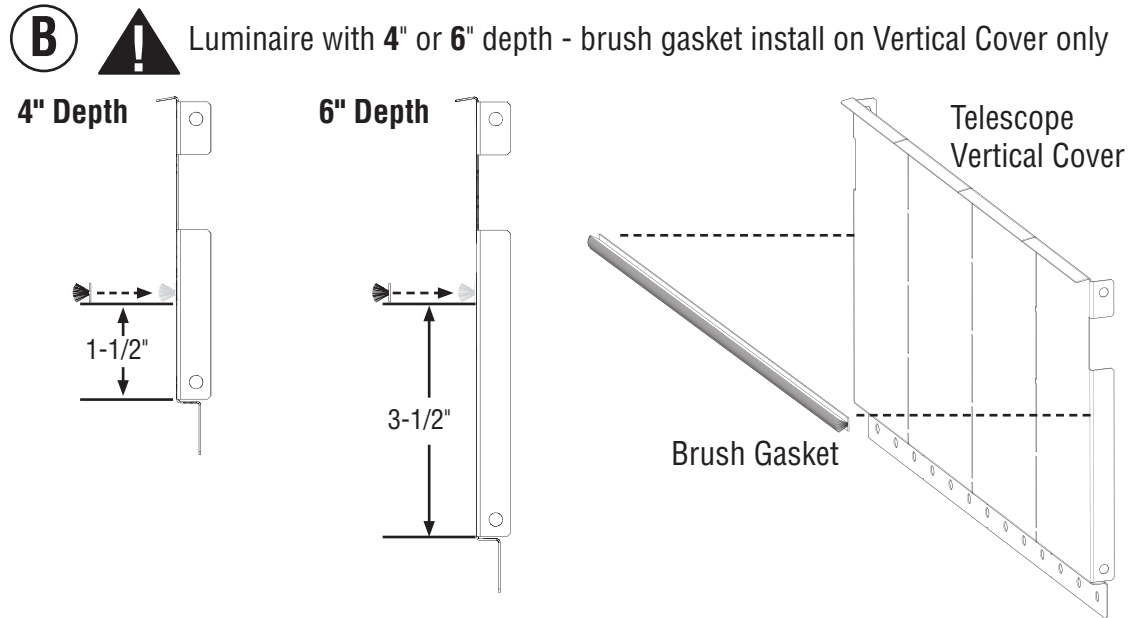
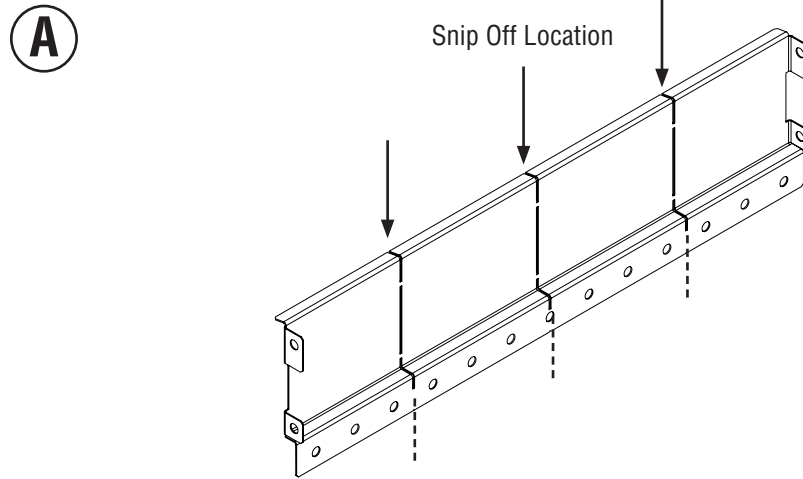


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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

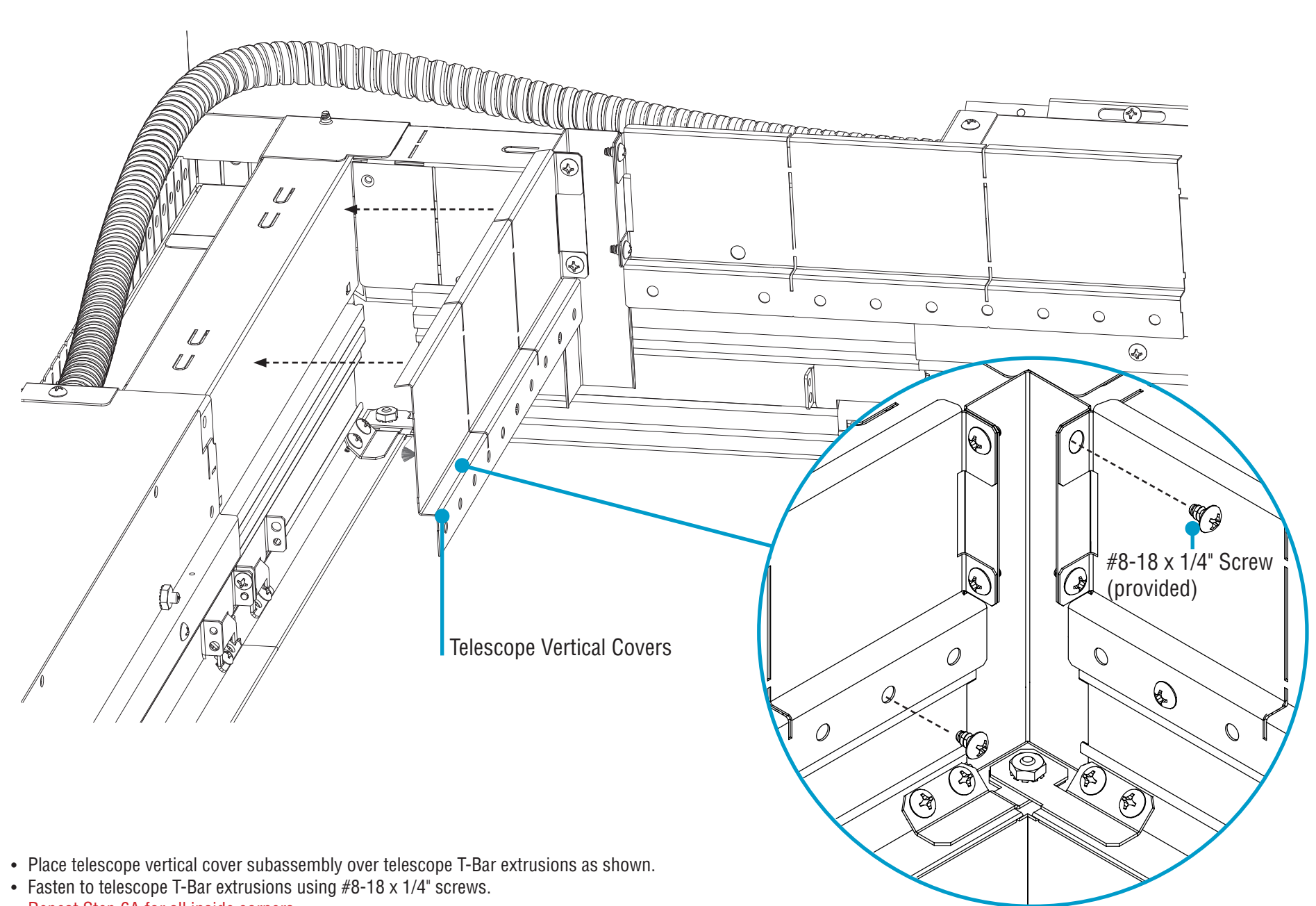
Step 6A - Inside Corner

I. Vertical Cover & Brush Gasket Installation - 4" or 6" Depth

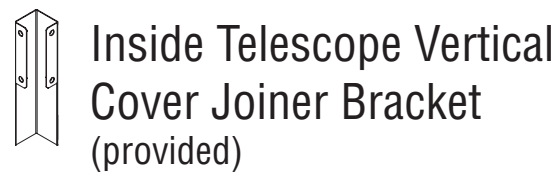
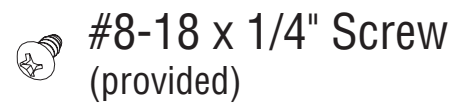


- **A.** If necessary, snip off perforated sections of the vertical cover.
- **B.** Remove adhesive backing from brush gasket to expose the adhesive. Attach brush gasket to telescope vertical cover, according to above measurements.

J. Secure Telescope Vertical Covers to Joiner and Enders Top View



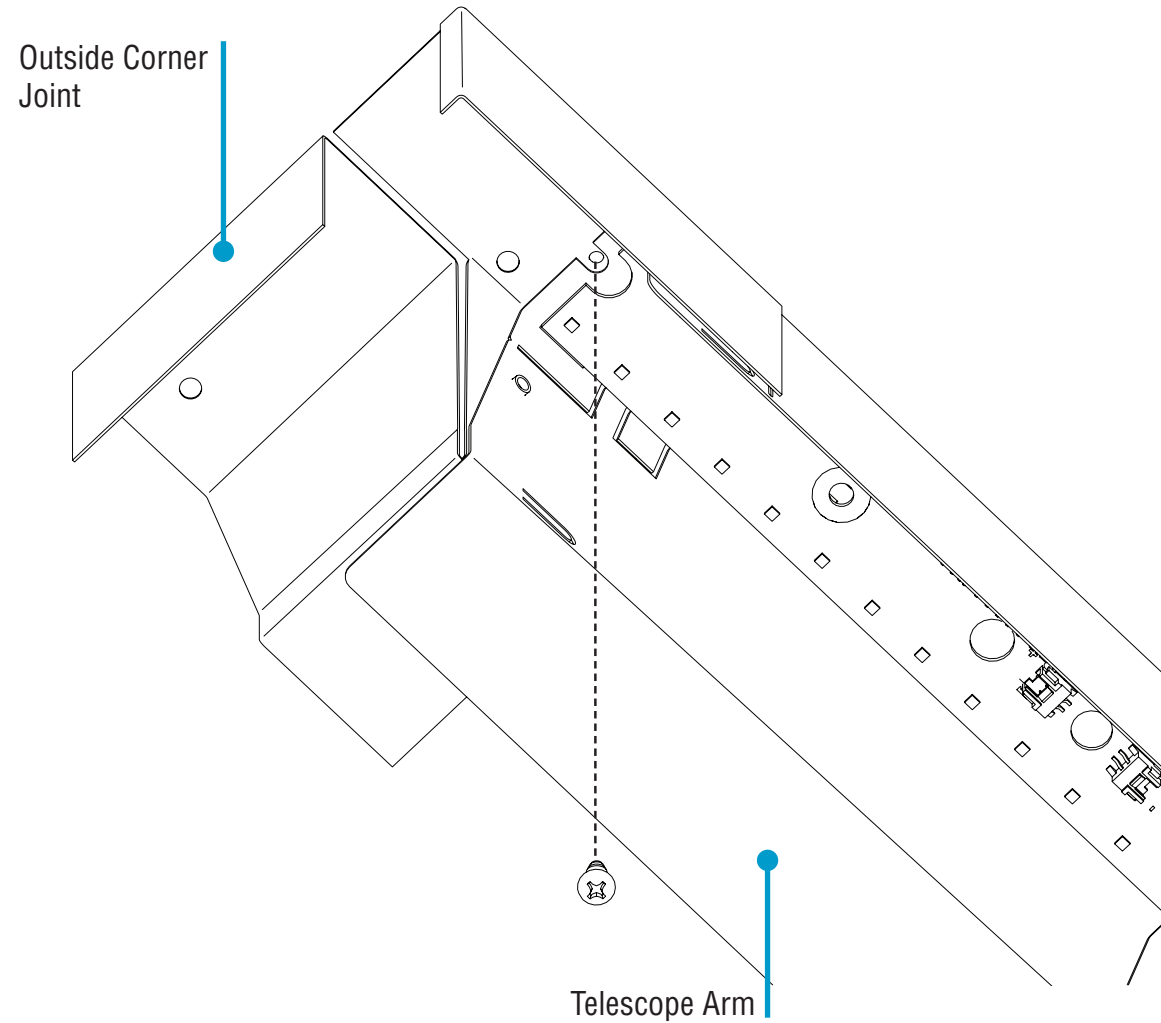
- Place telescope vertical cover subassembly over telescope T-Bar extrusions as shown.
- Fasten to telescope T-Bar extrusions using #8-18 x 1/4" screws.
- **Repeat Step 6A for all inside corners.**



HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

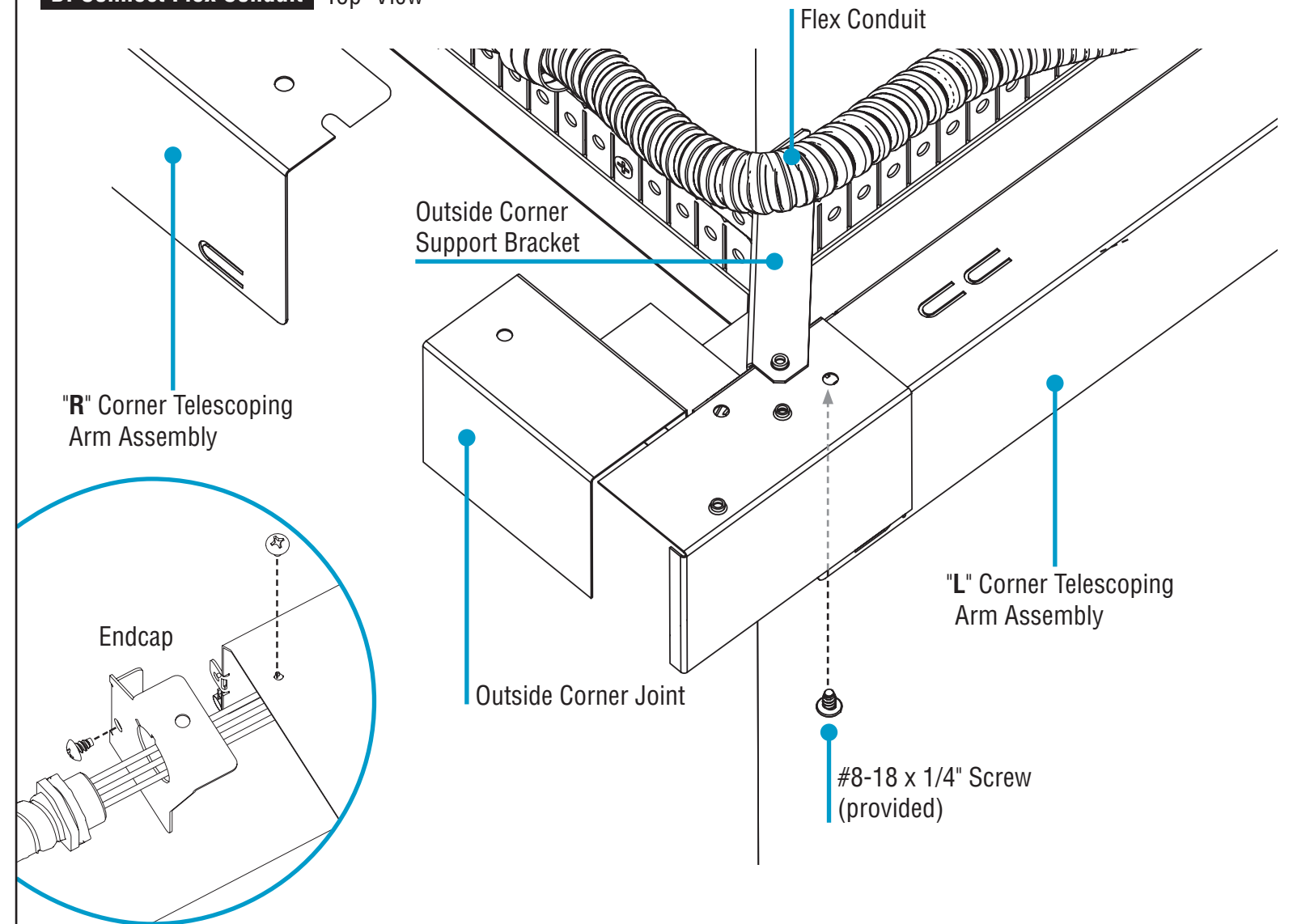
Step 6B - Outside Corner

A. Connect Corner Joint Bottom-Up View




- Connect the corner joint to the right telescope arm using #8-18 x 1/4" screw.

B. Connect Flex Conduit Top View



- Connect the through wiring using flex conduit and be sure the flex conduit goes above the corner support bracket.
- To connect flex conduit, remove two #8-18 x1/4" screws from telescope endcap for access.
- Extend the telescoping arm assembly from the L corner luminaire until you have room to attach the outside corner joint.
- Pin the outside corner joint to the L corner telescoping arm assembly with #8-18 x 1/4" screw.
- Then, extend the telescoping arm assembly from the R corner luminaire so it aligns with the outside corner joint as shown.

 #8-18 x 1/4" Screw(s)
(provided)

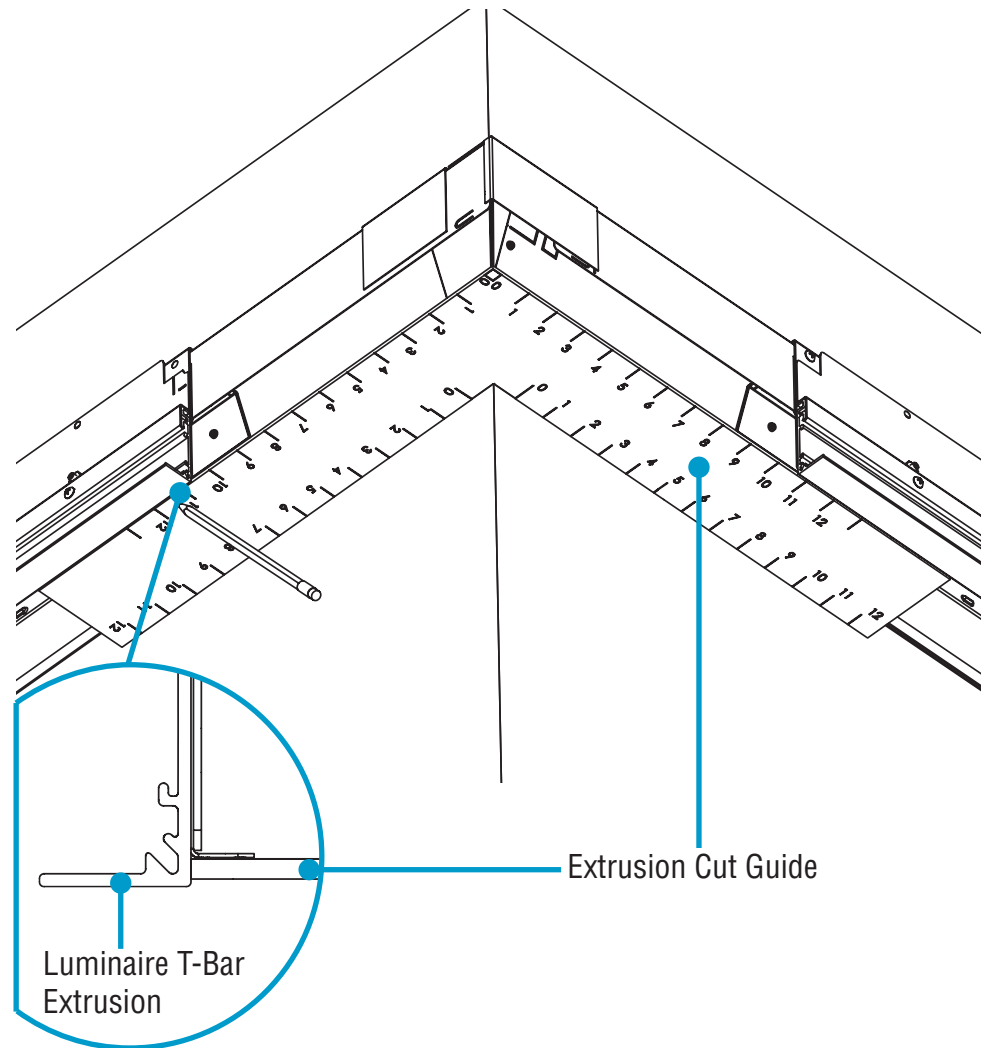
 Outside Corner
Support Bracket
(provided)

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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

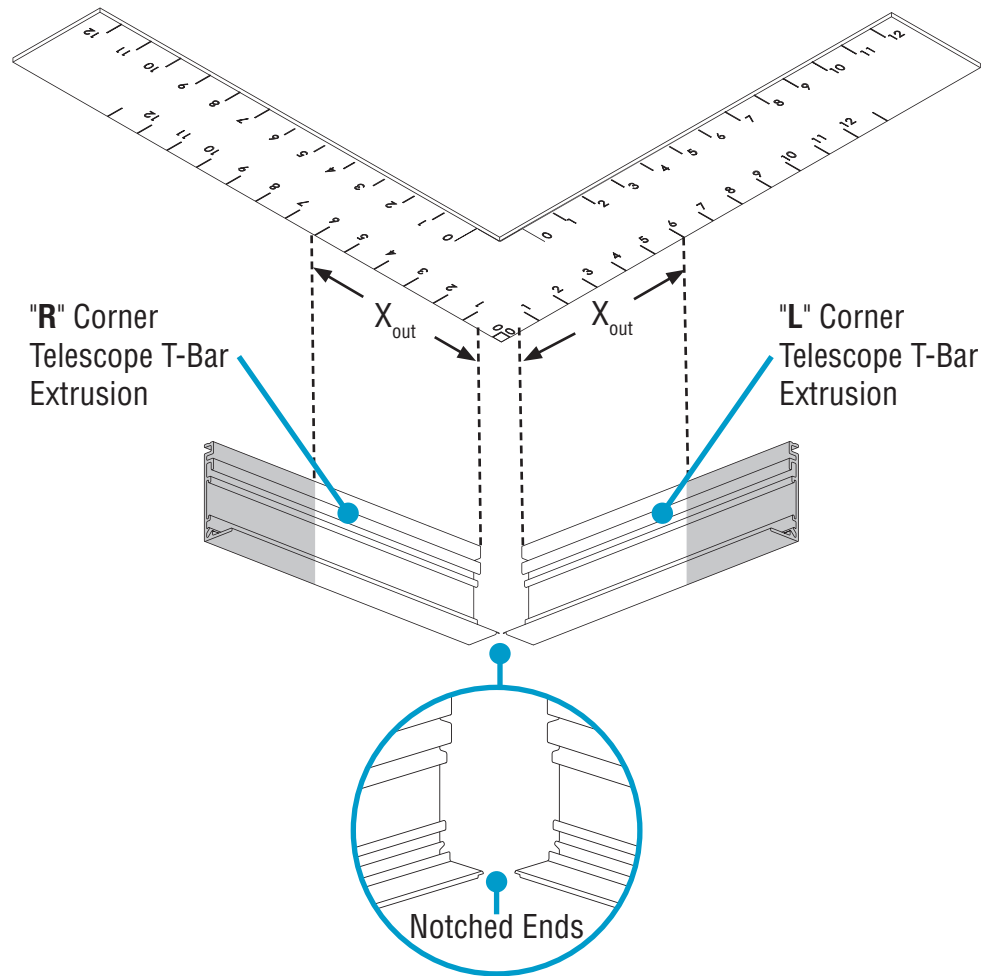
Step 6B - Outside Corner

C. Extrusion Cut Guide Bottom-Up View



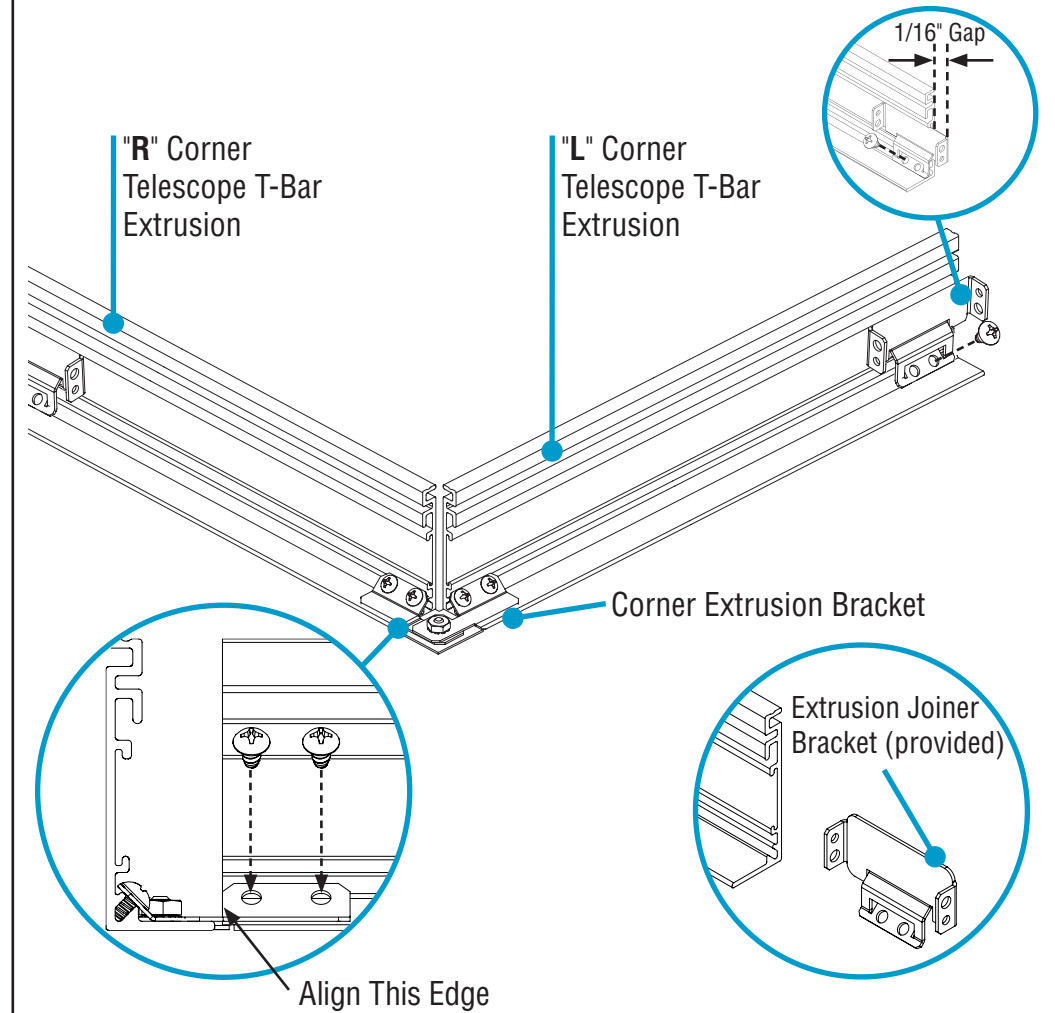
- Use the extrusion cut guide by placing it on the inner-side of the luminaire T-Bar extrusion just above the T-Bar flange.
- Mark where the extrusion ends for both sides.

D. Cut Telescope T-Bar Extrusion to Length

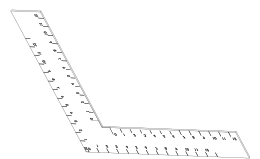


- Use the measurements found in the previous step to cut the telescope T-Bar extrusions to length.

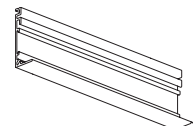
E. Attach Telescope T-Bar Extrusion Top-Down View



- Make sure the corner extrusion bracket is fastened to both pieces of the telescope T-Bar extrusion by lining up the bracket to the edge of the extrusion.
- Fasten using #8-18 x 1/4" screws.
- Slide the extrusion joiner bracket into the telescope T-Bar extrusion as shown.
- Pin with #8-18 x 1/4" screws.
- Make sure to leave a 1/16" gap from the extrusion joiner bracket to the end of the telescope T-Bar extrusion.



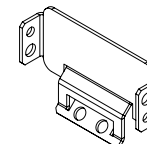
Extrusion Cut Guide
(provided)



Corner Telescope
T-Bar Extrusion
(provided)



#8-18 x 1/4" Screw(s)
(provided)



Extrusion Joiner Bracket
(provided)

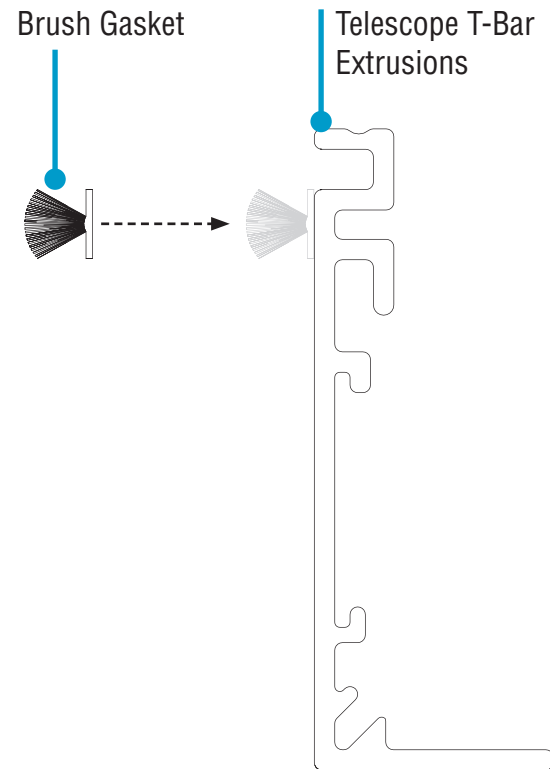
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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

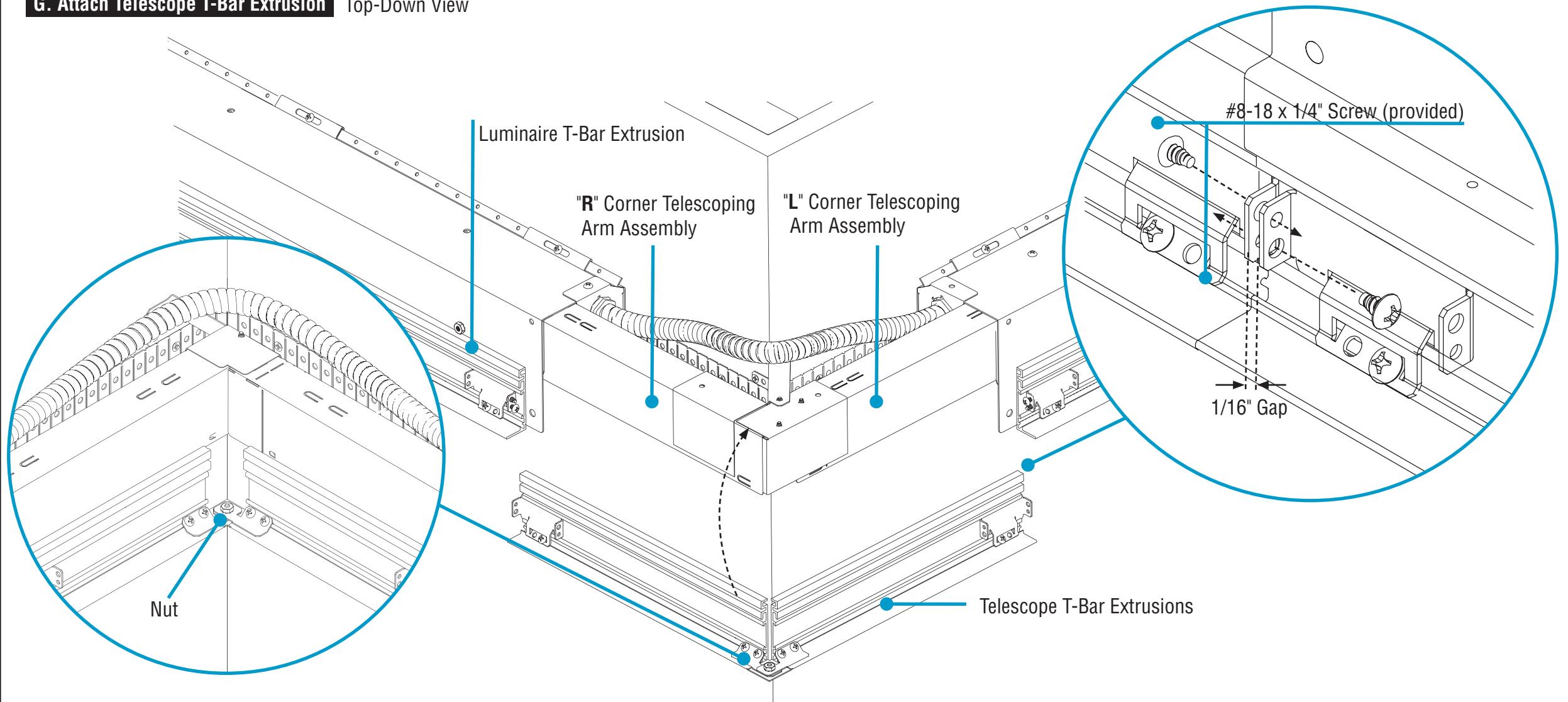
Step 6B - Outside Corner

F. Brush Gasket Installation - 2" Depth

! Luminaire with 2" depth - brush gasket install on extrusion bracket only

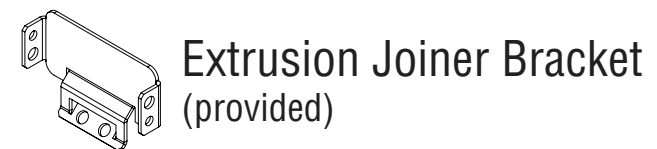
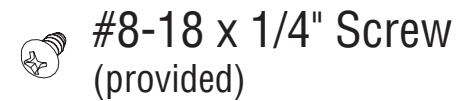
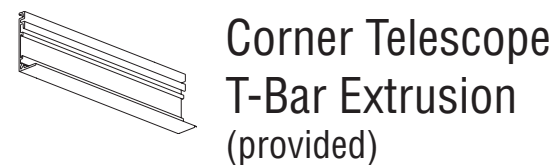


G. Attach Telescope T-Bar Extrusion Top-Down View



- Remove adhesive backing from brush gasket to expose the adhesive.
- Attach brush gasket to the top of the telescope T-Bar extrusions, near the open channel as shown above.

- Join the telescope T-Bar extrusions to the luminaire T-Bar extrusions using #8-18 x 1/4" screws to pull together the adjacent extrusion joiner brackets.
- Leave a 1/16" gap between the two extrusion joiner brackets.
- Tighten nut to solidify telescope T-Bar extrusion corner joint.

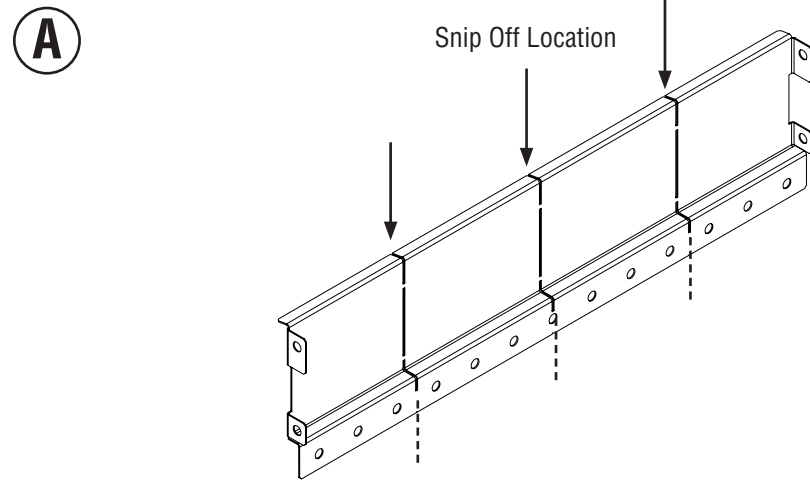


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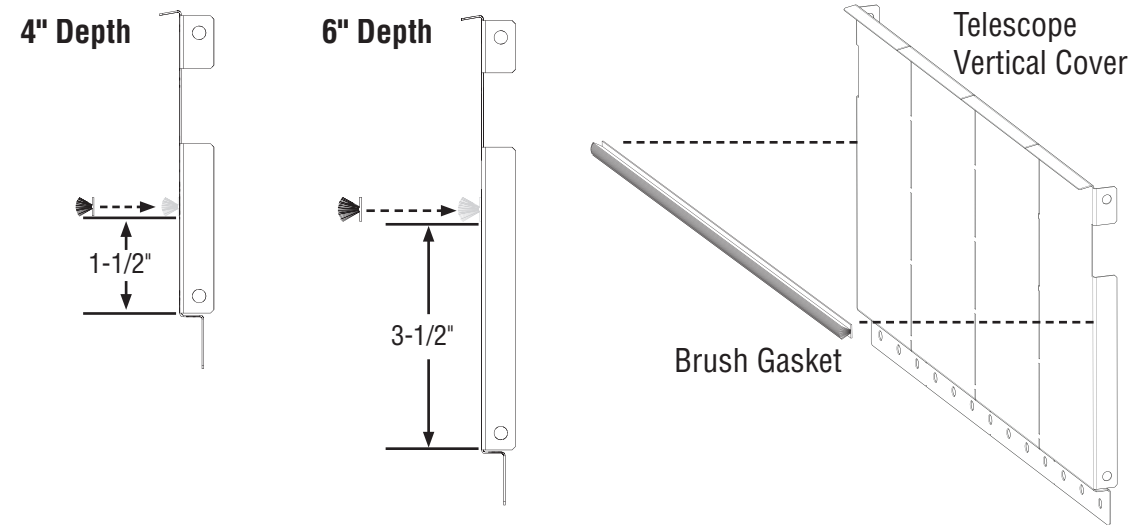
HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

Step 6B - Outside Corner

H. Vertical Cover & Brush Gasket Installation - 4" or 6" Depth

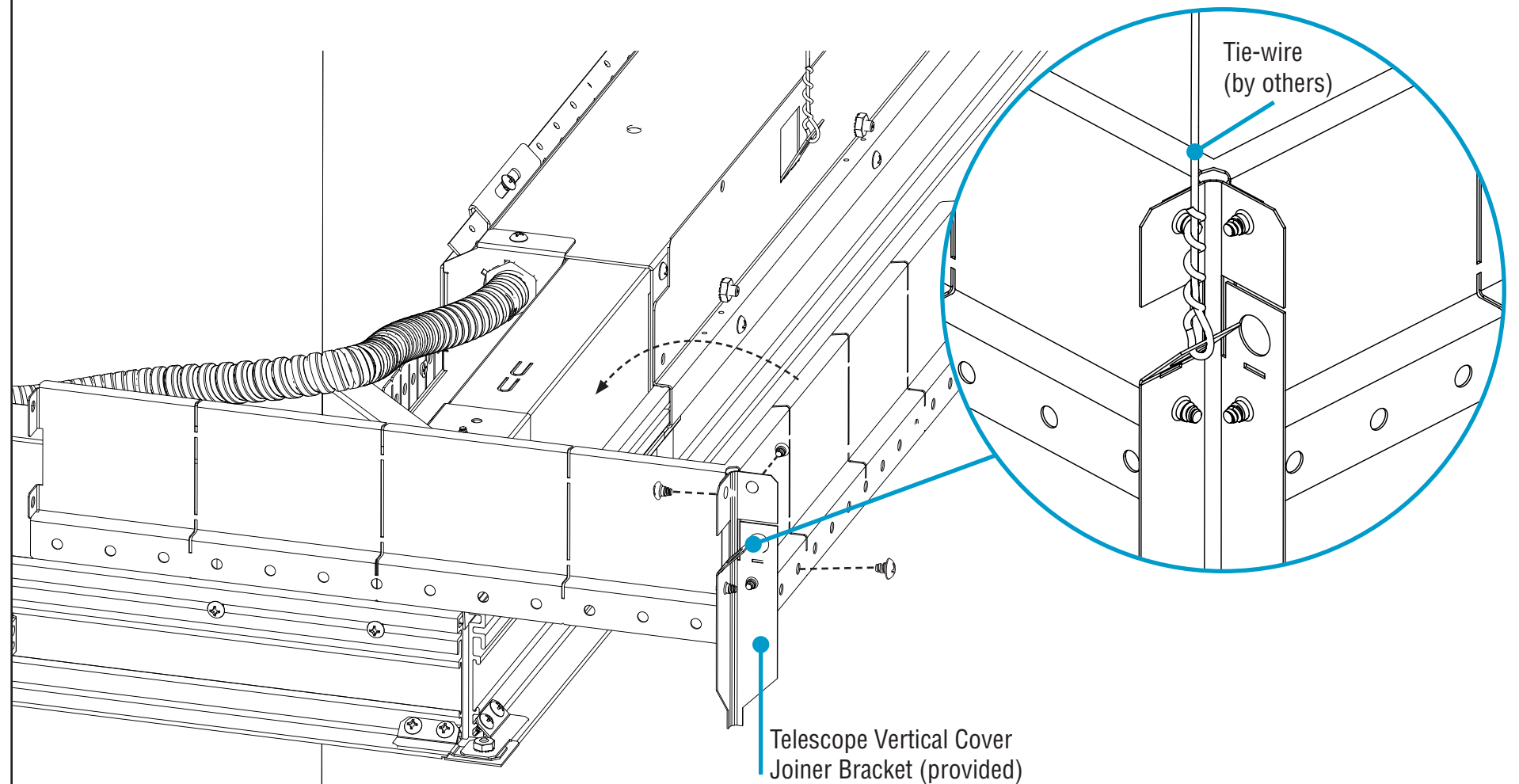


B Luminaire with 4" or 6" depth - brush gasket install on Vertical Cover only

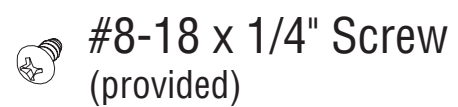


- **A.** If necessary, snip off perforated sections of the vertical cover.
- **B.** Remove adhesive backing from brush gasket to expose the adhesive. Attach brush gasket to telescope vertical cover, according to above measurements.

I. Secure Telescope Vertical Covers to Joiner and Enders Top-Down View



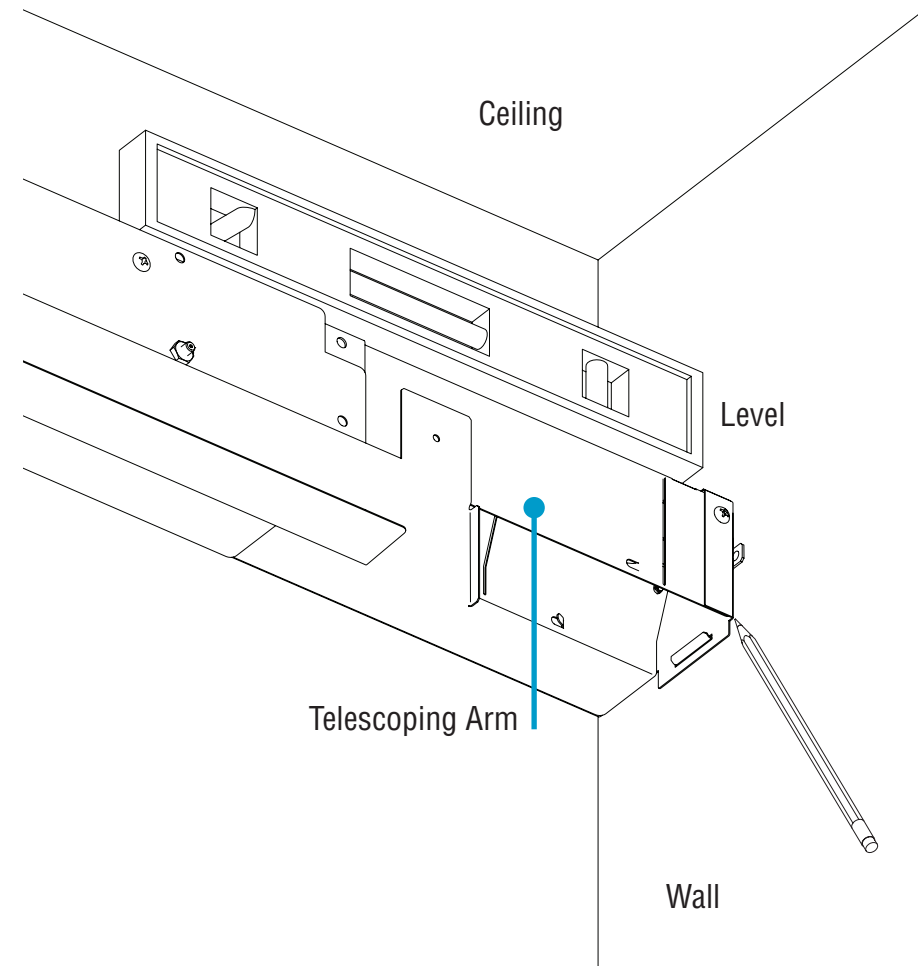
- Place telescope vertical cover subassembly over telescope T-Bar extrusions as shown.
- If necessary, snip off perforated sections of the telescope vertical cover.
- Fasten to telescope T-Bar extrusions using #8-18 x 1/4" screws.
- Support the telescope vertical cover corner assembly to structure.
- **Repeat Step 6B for all outside corners.**



HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

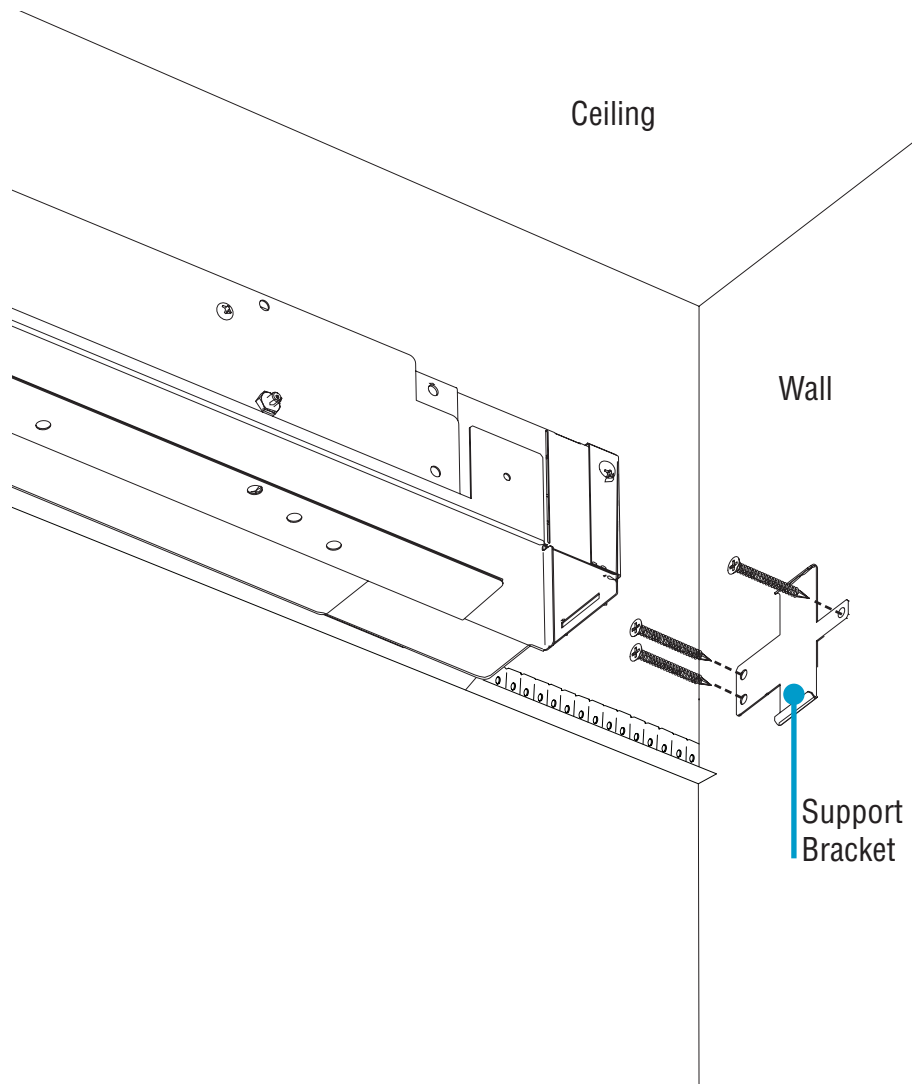
Step 7 - Straight Telescope

A. Extend Straight Telescope Bottom-Up View



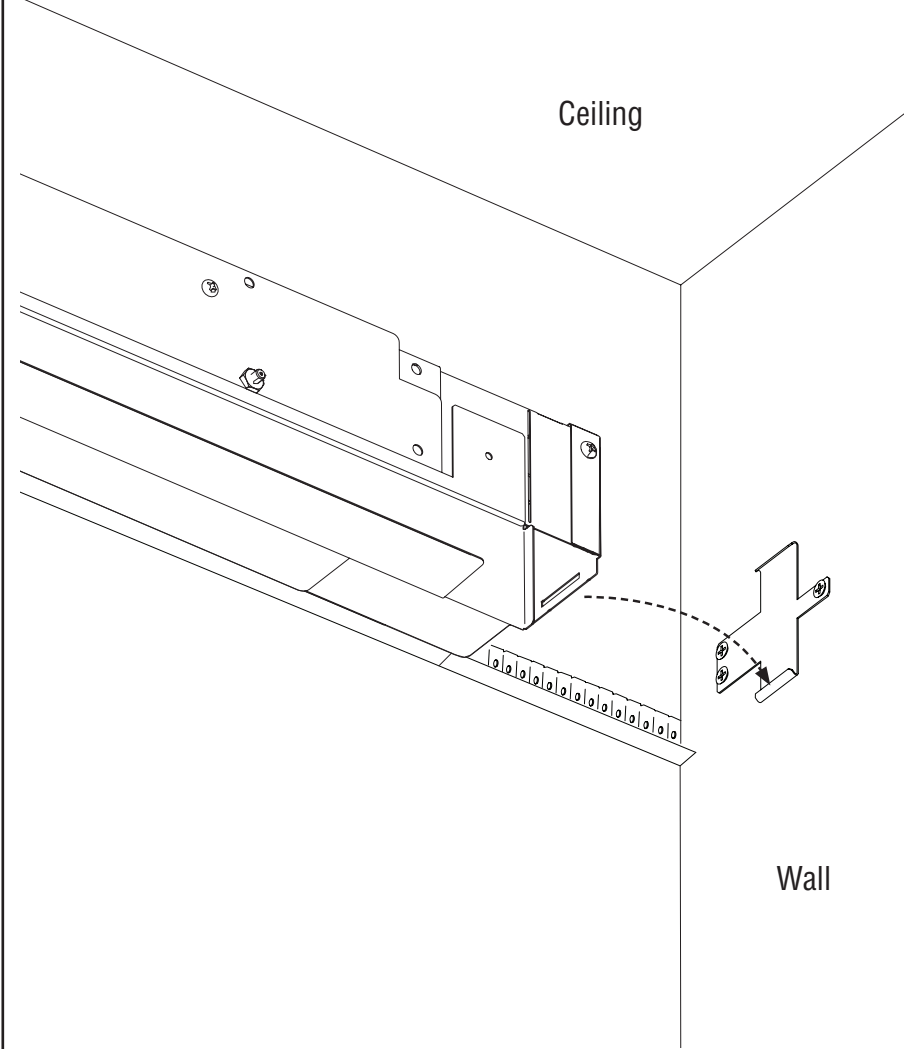
- Extend telescope arm to wall, ensuring it is level.
- Mark where the telescope wall support bracket will be mounted.

B. Mount Support Bracket Bottom-Up View

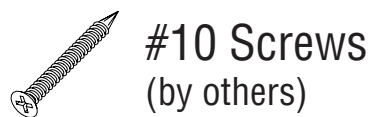


- Mount support bracket to wall using appropriate #10 screws.

C. Hook Telescope Bottom-Up View



- Hook the telescope arm onto the support bracket using the slot provided.

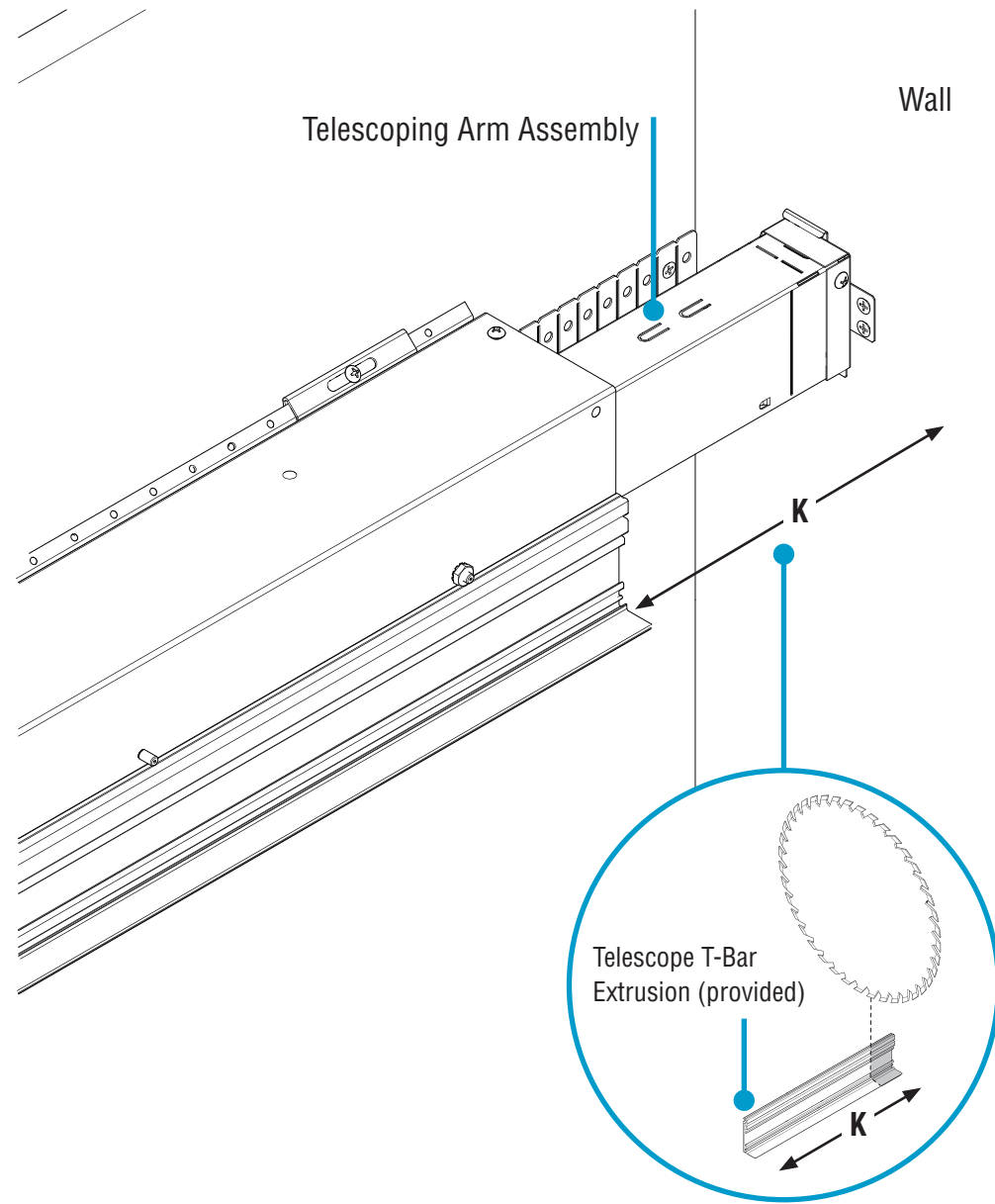


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HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

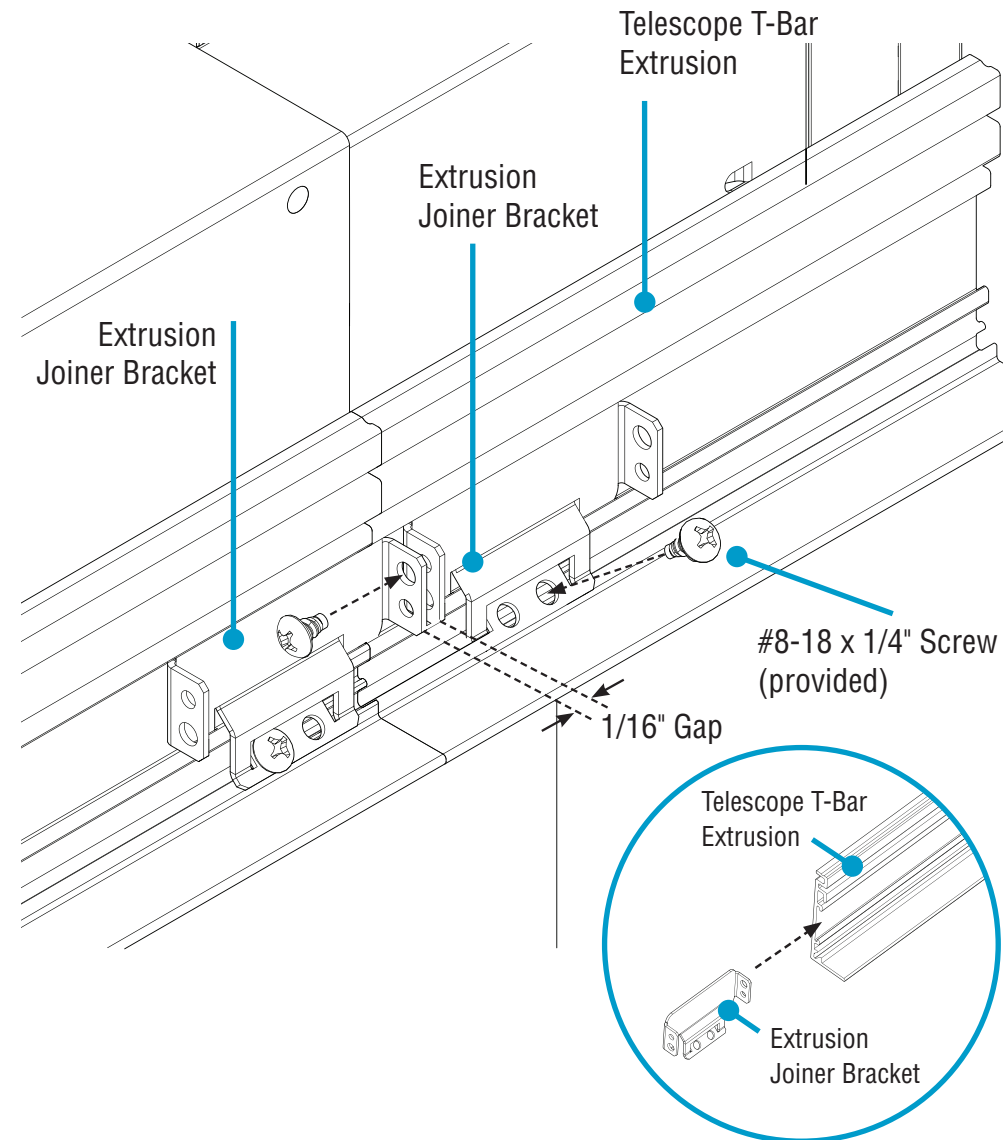
Step 7 - Straight Telescope

D. Telescope T-Bar Extrusion Assembly Side View



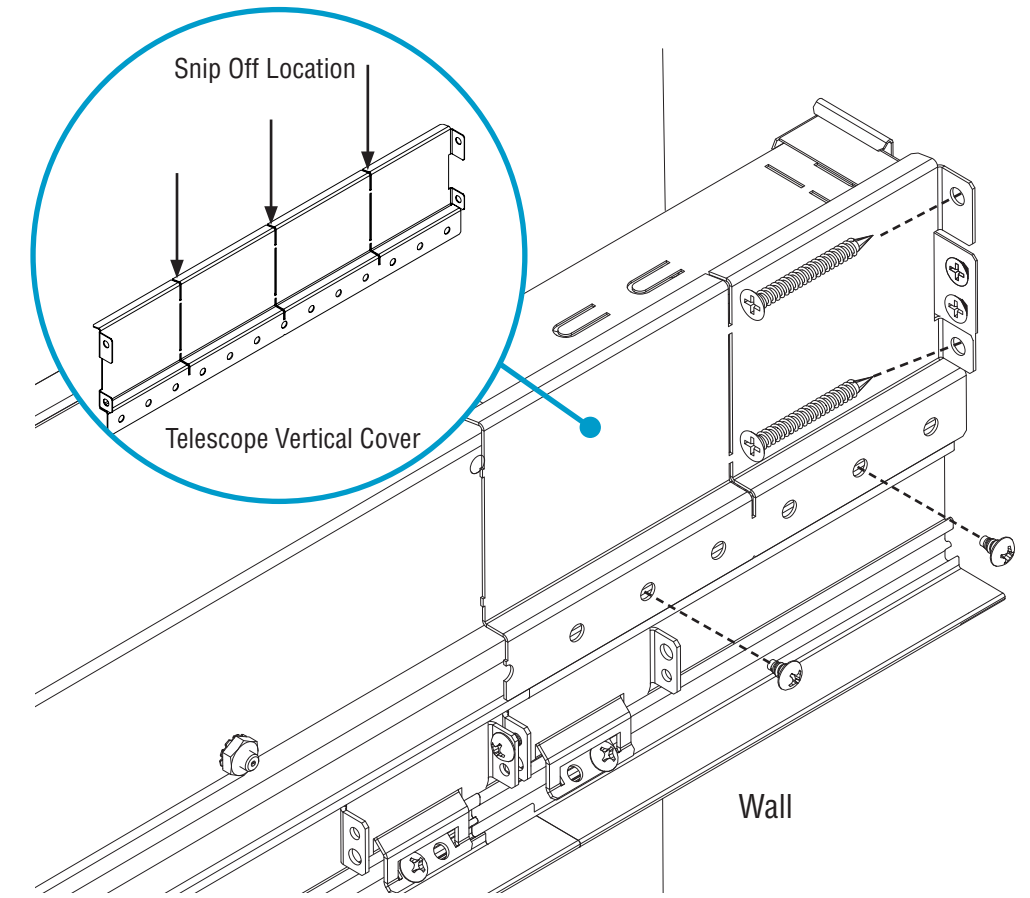
- Measure distance from extrusion to wall and cut telescope T-Bar extrusion to **K**.

E. Telescope T-Bar Extrusion Assembly Side View

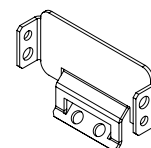
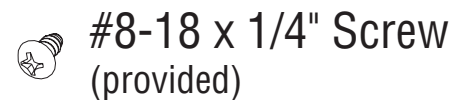
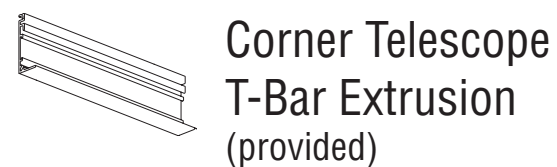


- Insert extrusion joiner bracket into telescope T-Bar extrusion.
- Attach extrusion joiner bracket to telescope T-Bar extrusion using #8-18 x 1/4" screw.
- Make sure to leave 1/16" gap between two extrusion joiner brackets.
- Mount telescope T-Bar extrusion to adjacent extrusion piece using extrusion joiner bracket and #8-18 x 1/4" screw.

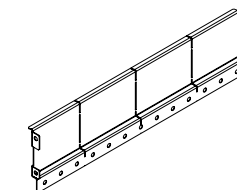
F. Install Telescope Vertical Cover Top View



- Cut the necessary sections off of the telescope vertical cover.
- Remove enough of telescope vertical cover so it doesn't overlap nearest stud/nut.
- Tin snips are recommended to snip then break off sections as necessary.
- Fasten telescope vertical cover to telescope T-Bar extrusion using #8-18 x 1/4" screws as necessary.
- Secure to wall using appropriate #10 screws.



Extrusion Joiner Bracket (provided)



Telescope Vertical Cover (provided)

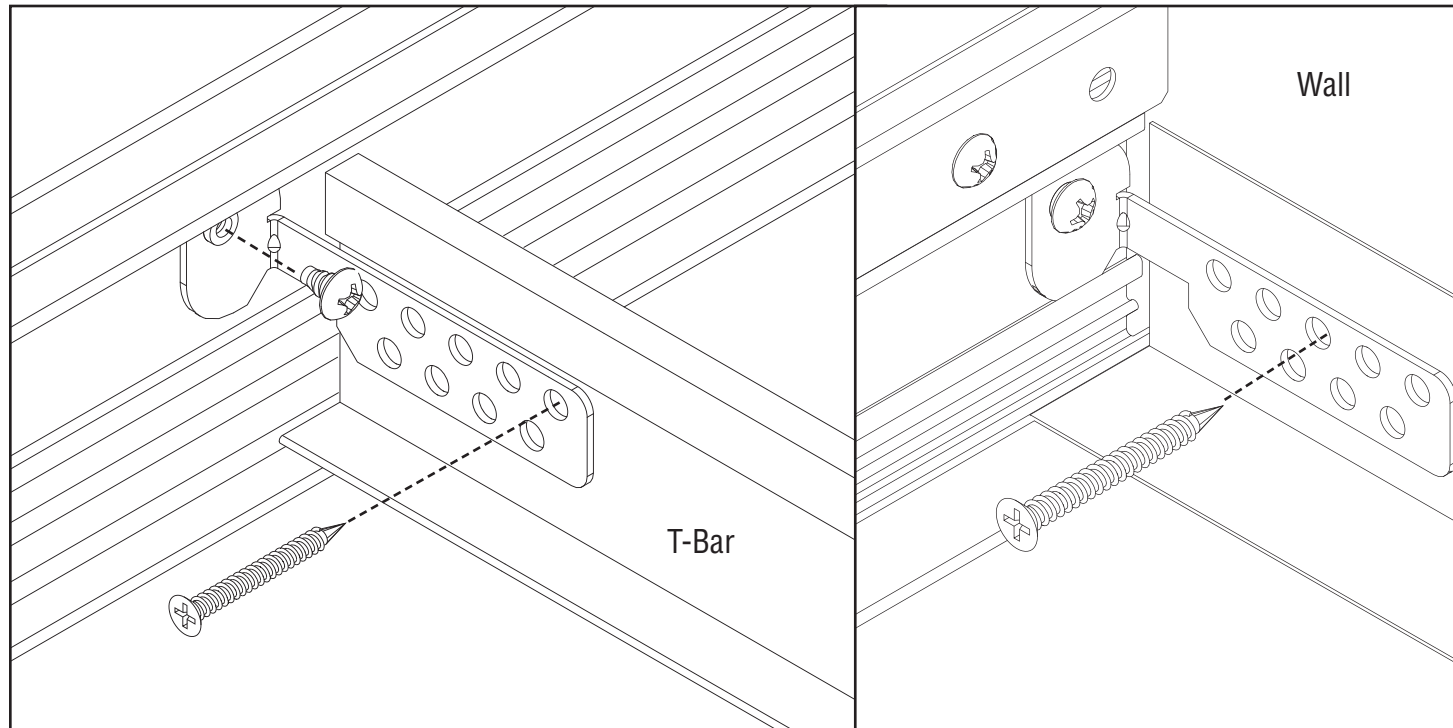
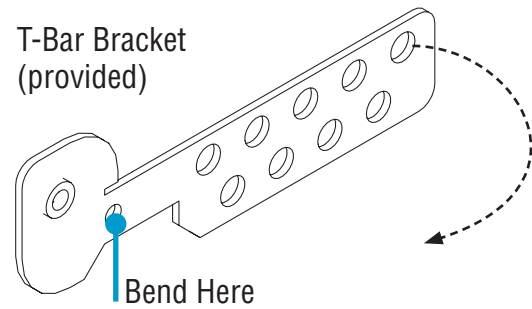


#10 Screws (by others)

HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

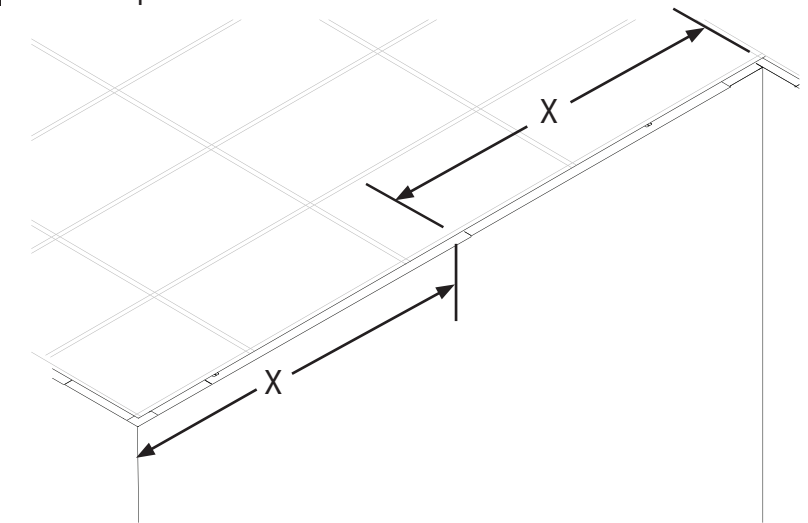
Step 8 - Closing Luminaires

A. Connect to T-Bar Side View

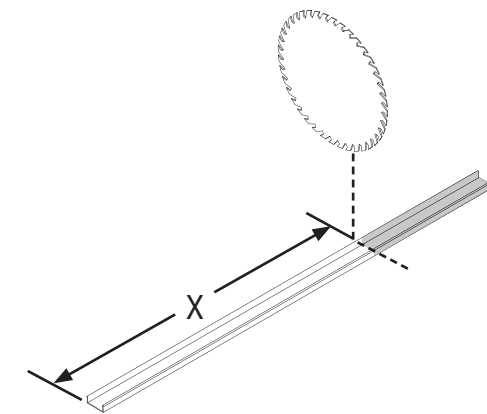


- Fasten T-Bar to T-Bar extrusion using T-Bar brackets.
- Twist brackets into extrusion and pin them to the T-Bar extrusion using #8-18 x 1/4" screws.
- Secure T-Bar to T-Bar brackets using self-drilling screws.
- For edging at the wall, use appropriate #10 screws through brackets and edging into wall (this also supports the telescope T-Bar extrusion to the wall).

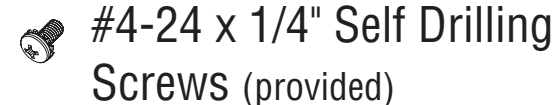
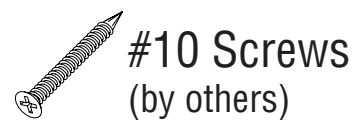
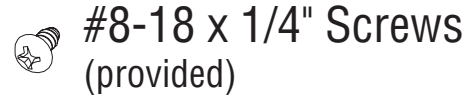
B. Measure Diffusers Bottom-Up View



- Diffuser measurement **X** will vary.



- Diffuser length **X** is always measured along the longest edge.
- Measure the overall length for square-edged lengths.
- Measure from the square edge to the tip of a mitered edge.
- Cut the diffuser to **X** minus 1/16". For example, if **X** is 8'6", cut the diffuser to 8' 5-15/16".
- This difference accounts for thermal expansion and helps to avoid light leaks. Diffusers should be cut at a room temperature between 70°F and 73°F. Contact the factory if cutting at temperature outside that range.

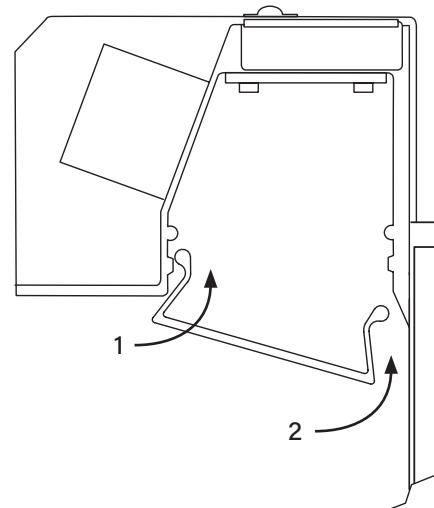


HP-WS Perimeter Slot Wall Bracket Mount T-Bar Installation Instructions

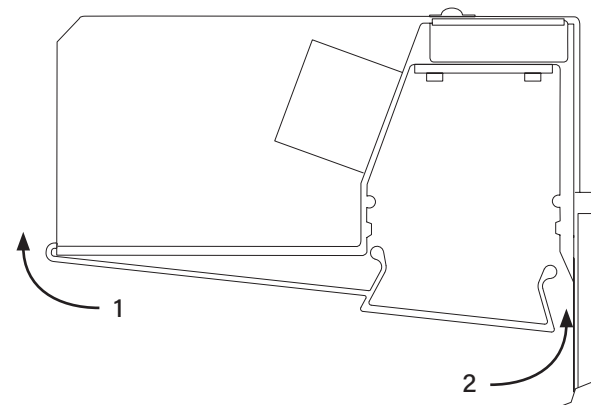
Step 8 - Closing Luminaires

C. Replace Diffusers Side View

4W Only

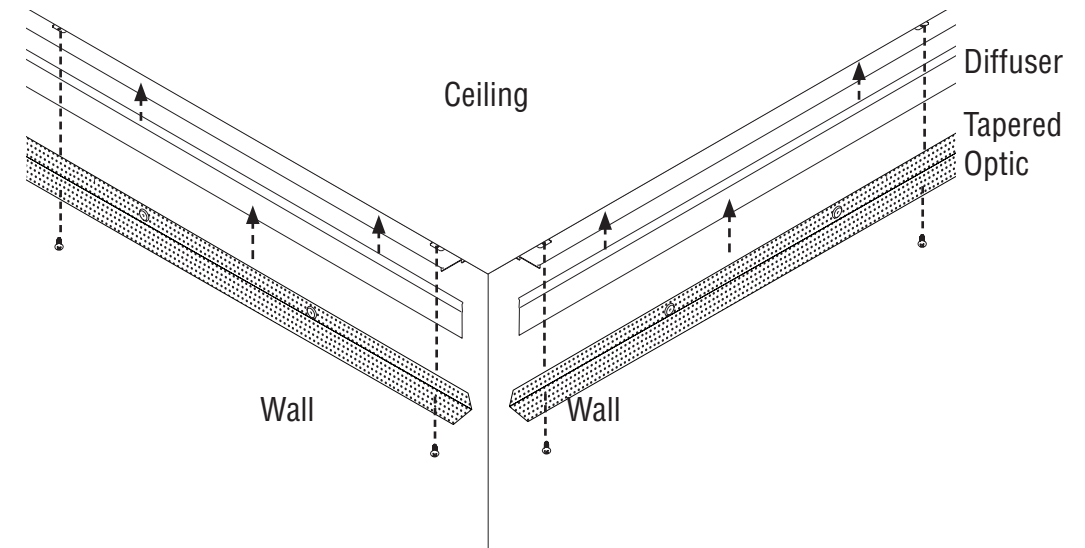


6W Only

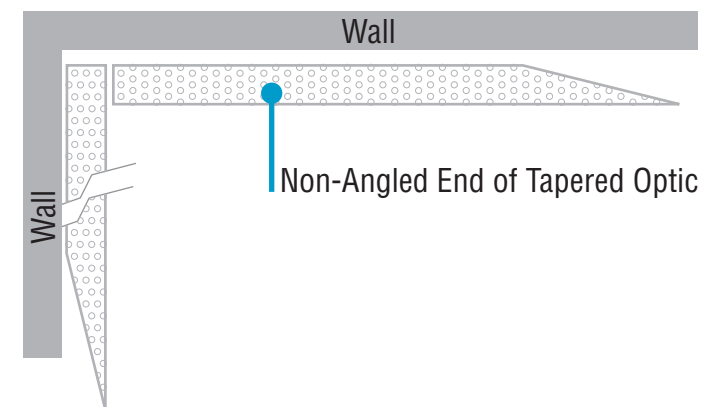


- Replace diffusers

Install Tapered Optic to Inside Corner Bottom-Up View



Bottom-Up View



For Inside Corner Only

- Install diffusers and tapered optics using #4-24 x 1/4" screws at inside corner
- Non-angled end of tapered optic to be placed at ends of luminaire closest to perpendicular wall.
- Turn power on to luminaire.