

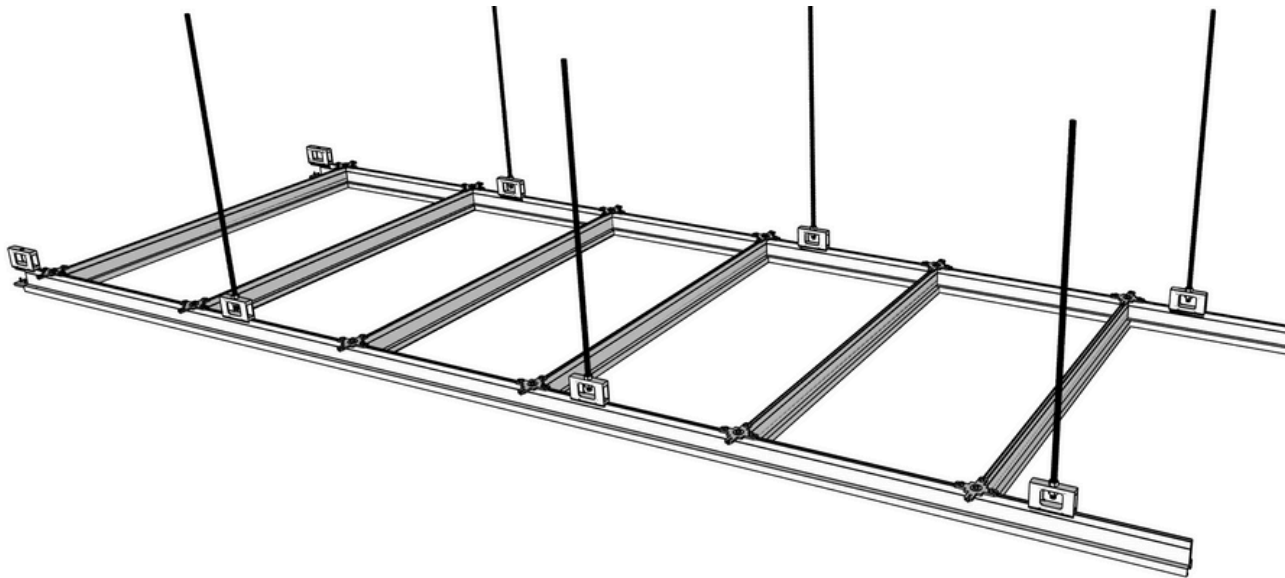


PICS Global Channel Structural Ceiling Installation Guide

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Installation Guide
PRODUCT TYPE
Structural Ceiling

DATE CREATED
2025

SEQUENCE OF INSTALLATION OVERVIEW



- 1) PREPARE THE ROOF WITH SUPPORT POINTS - TYPICALLY ROWS OF STRUT TO PRECAST TEES OR TO TRUSS/BEAMS.
- 2) ADD THE PERIMETER WALL ANGLE USING LASER FOR SETTING ELEVATION.
- 3) HANG THE RODS; CUT TO 4" ABOVE CEILING ELEVATION USING LASER GUIDE. ADD NUT AT 5-1/4" ABOVE CEILING ELEVATION.
- 4) ASSEMBLE 12' MAINS WITH HAT BRACKETS.
- 6) INSTALL 12' MAINS SPACED EVERY 4'; SECURE WITH WASHERS & HEX NUTS TO RODS AND WITH SET SCREWS TO GRID STICK.
- 7) INSTALL 4' NOTCHED CROSS TEES BETWEEN 12' MAINS.
- 8) ADD NOTCHED CROSS TEES TO PERIMETER.
- 9) ADD EDGE TRIM PIECES TO WALL ANGLE BETWEEN PERIMETER NOTCHED CROSS TEES.

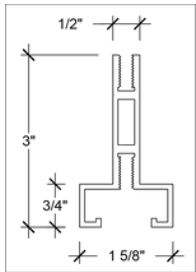


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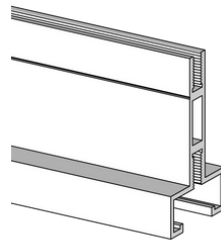
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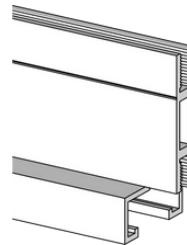
MAIN COMPONENTS



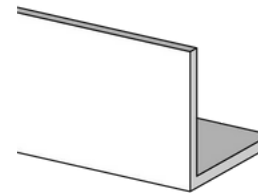
PICS Global Profile



PICS Global 12' Main,
1-5/8" x 3" x 144" L
(SKU: PICGMR-05A-144-1)



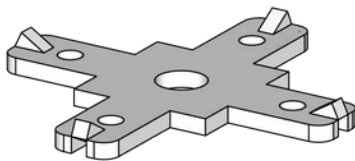
PICS Global Notched Cross Tee,
1-5/8" x 3" x 47-1/2" L
(SKU: PICGCTN-05A-47.5-1)



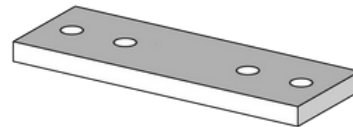
PICS Global Wall L-Angle,
1-1/2" x 1-1/2" x 144" Length
(SKU: PXAL125ANG150X150)



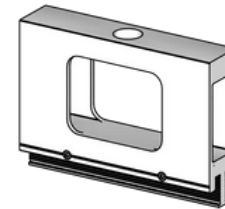
PICS Global Edge Trim w/ Tape,
3/4" x 3/4" L-Angle
(SKU: PICG-EDGETRIM-A-XXX-T)



PICS Global 4-Way Connectors,
4" x 4" x 1/8"
(SKU: PICG-4WBSP-P-1)



PICS Global Main Splice Plate,
1-3/8" x 4" x 1/4"
(SKU: PICG-MSSSP-P-1)



PICS Global Rod Hat Bracket,
4" x 0.89" x 2.87"
(SKU: PICG-EXHATB-1)
Patent Pending



PICS Global Lite Tee Hold Down Clip,
0.63" x 0.87" x 1.90"
(SKU: PICSLT-HOLD1)

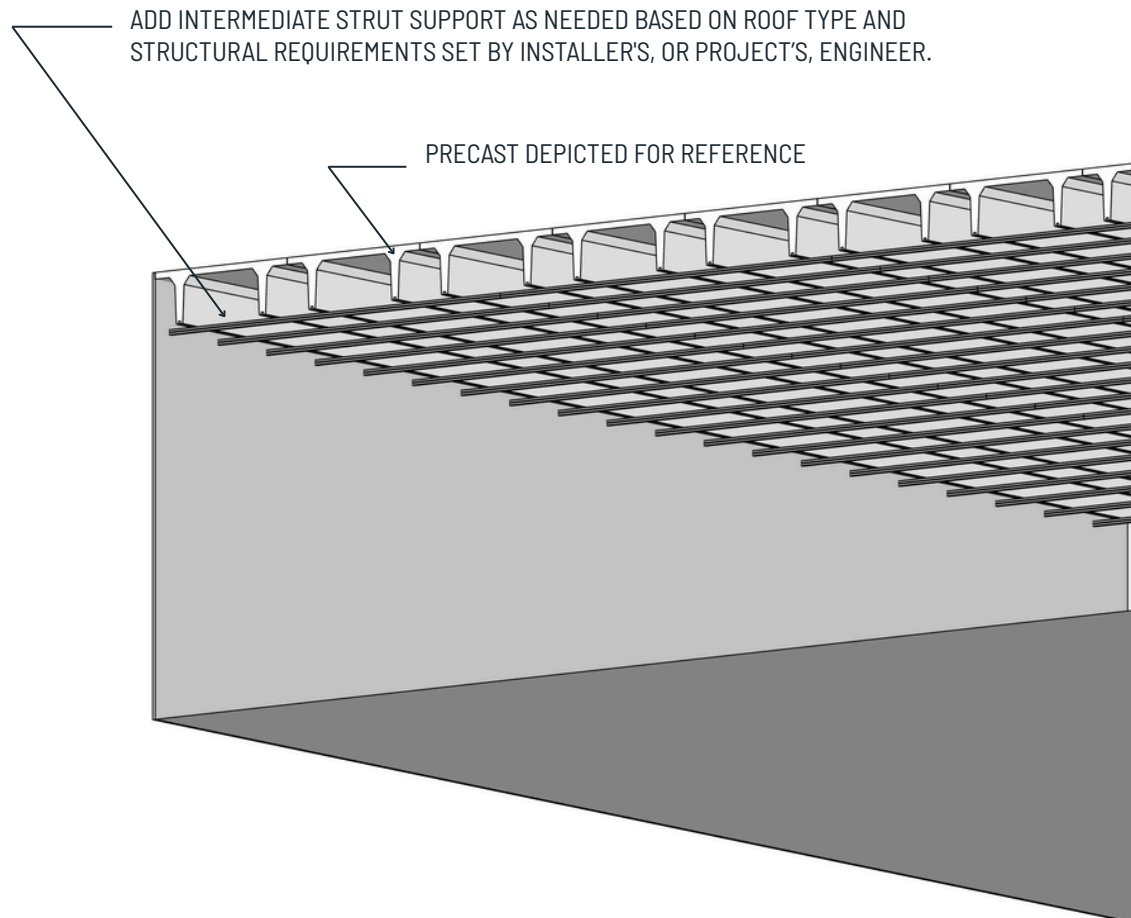


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PREPARING ROOF CONDITIONS





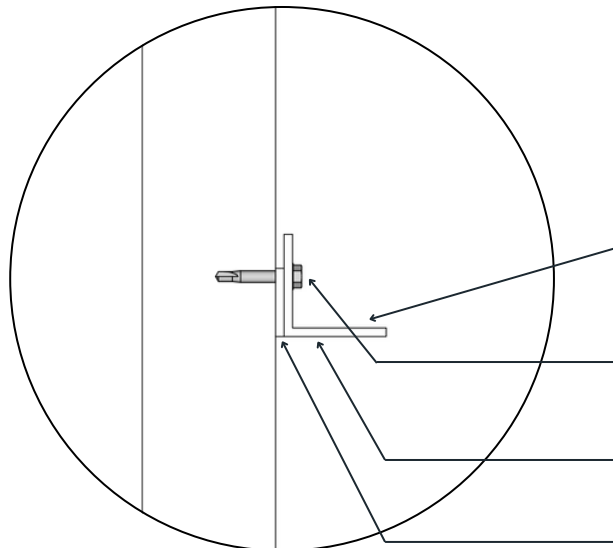
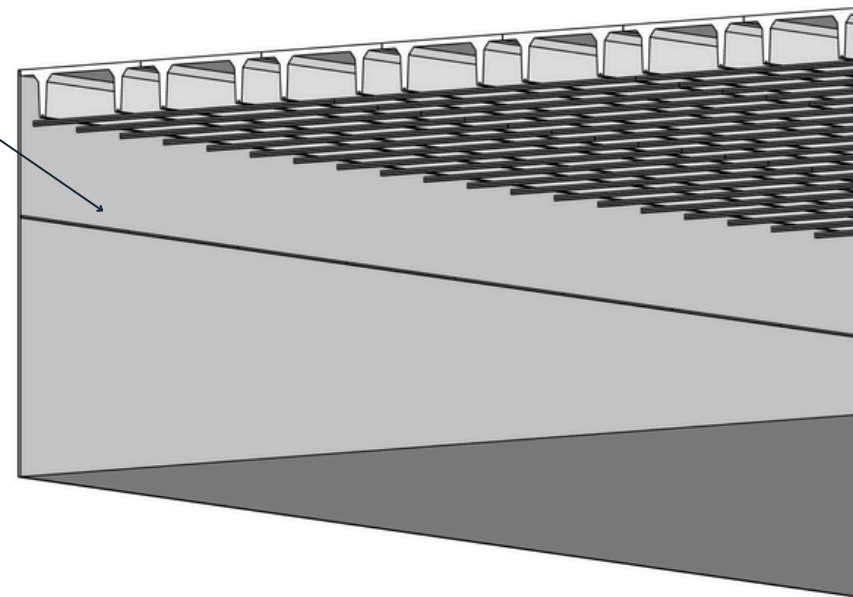
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ADDING PERIMTER WALL ANGLE

ADD WALL ANGLE WITH TOP OF
HORIZONTAL FLANGE AT CEILING
ELEVATION (FOR FIXED PERIMETER)



CEILING ELEVATION AT TOP SIDE OF WALL ANGLE

METAL WALL STUDS: MINIMUM #10 SHEET SCREWS, EVERY 2.0' ON CENTER

CONCRETE WALLS: 0.157" DIAMETER PAF, 1.5" EMBEDMENT, EVERY 2.0' ON CENTER

LOCATION 1/8" BELOW CEILING ELEVATION

LOCATION 1/8" BELOW CEILING ELEVATION



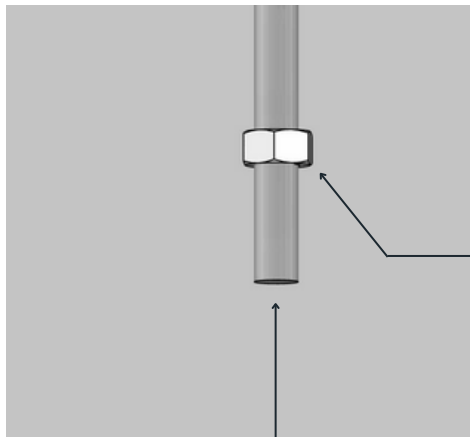
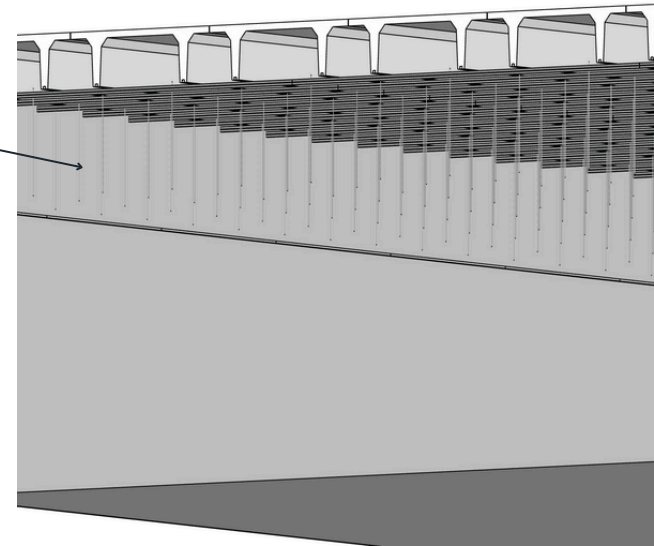
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HANGING THREADED RODS

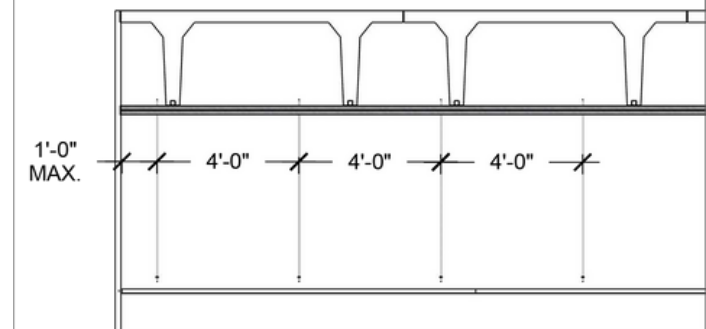
HANG THREADED ROD FROM UNISTRUT.
SELECTION OF ROD SIZE BY INSTALLER'S, OR
PROJECT'S, ENGINEER. CUT ROD TO
APPROXIMATELY 4" ABOVE CEILING ELEVATION.
SECURE UPPER HEX NUT TO ROD. THE BOTTOM
OF THE HEX NUT SHOULD BE 5-1/4" ABOVE
CEILING ELEVATION.



LOCATION 5-1/4"
ABOVE CEILING
ELEVATION

LOCATION 4" ABOVE
CEILING ELEVATION

ROD SPACING 4' ON CENTER & 1' MAX.
FROM WALL. SPLICES ON 12' MAINS.





PICS Globa Channel Structural Ceiling Installation Guide

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JIG TABLE & ASSEMBLY

FIELD ASSEMBLE JIG TABLE ON WHICH
THE 12' PICS GLOBAL MAINS ARE BUILT
ON (SUPPLIED BY OTHER)

ATTACH SPLICE PLATE TO ONE END OF
PICS GLOBAL 12' MAIN WITH (2) 1/4-20 X
3/4" HEX HEAD BOLTS (STEEL, FULLY
THREADED), TIGHTENED TO 50 IN-LBS

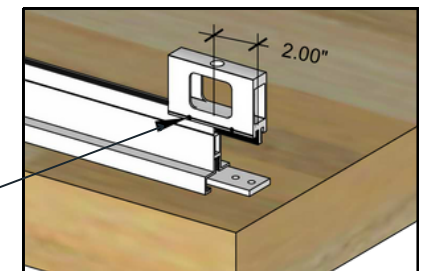
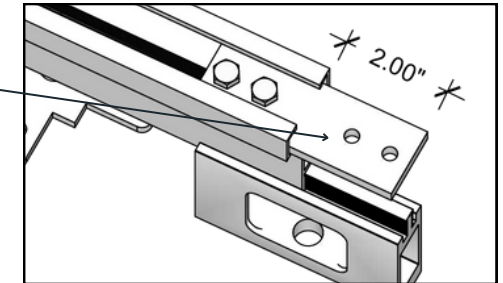
PICS GLOBAL 12' MAIN

PICS GLOBAL HAT/ROD
MOUNTING BRACKET &
UPPER SPLICE

SET ROD HAT BRACKET IN SPECIFIED
ARRAY. SET SCREWS CAN BE
LOOSELY TIGHTENED TO HELP KEEP
POSITION DURING INSTALL.

NOTE ALIGNMENT STRIPES THAT
ENSURE PROPER ORIENTATION.

HAND TIGHTEN SPLICE
SET SCREW WITH 5/16"
HEX DRIVE TO HOLD
POSITION.



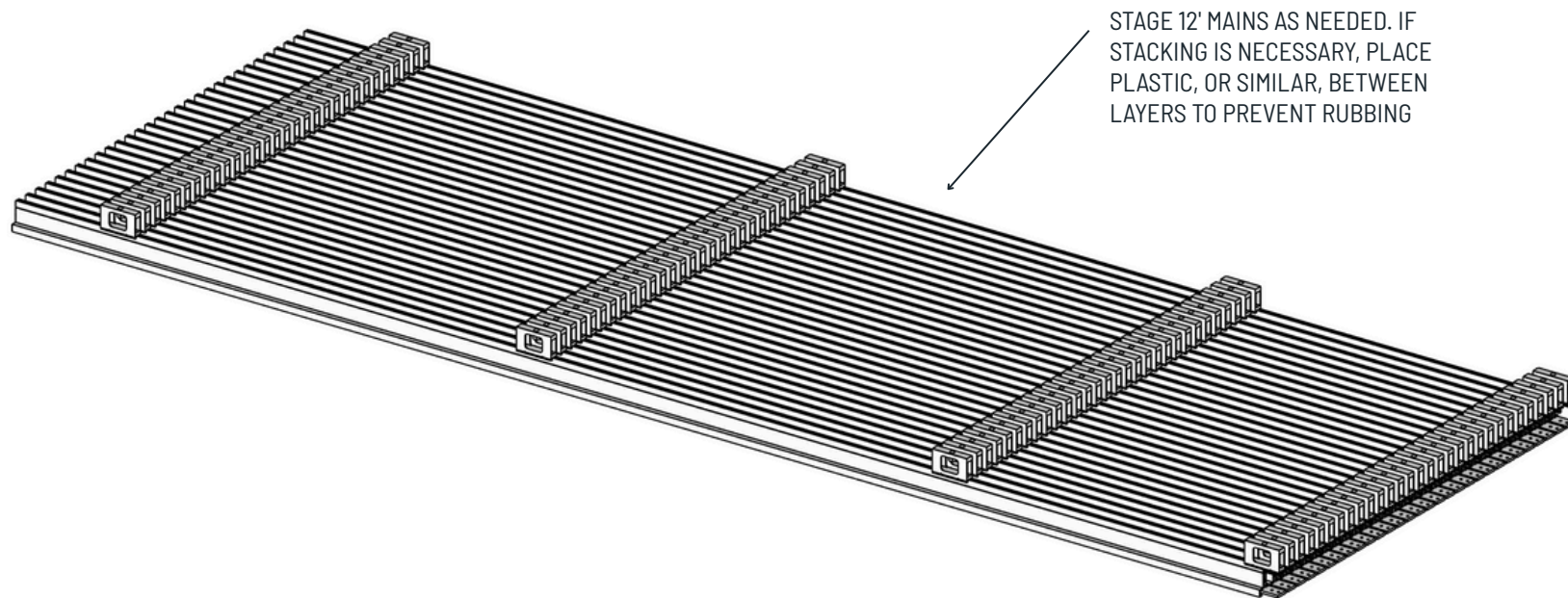


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STAGE PREBUILT SECTIONS



STAGE 12' MAINS AS NEEDED. IF
STACKING IS NECESSARY, PLACE
PLASTIC, OR SIMILAR, BETWEEN
LAYERS TO PREVENT RUBBING

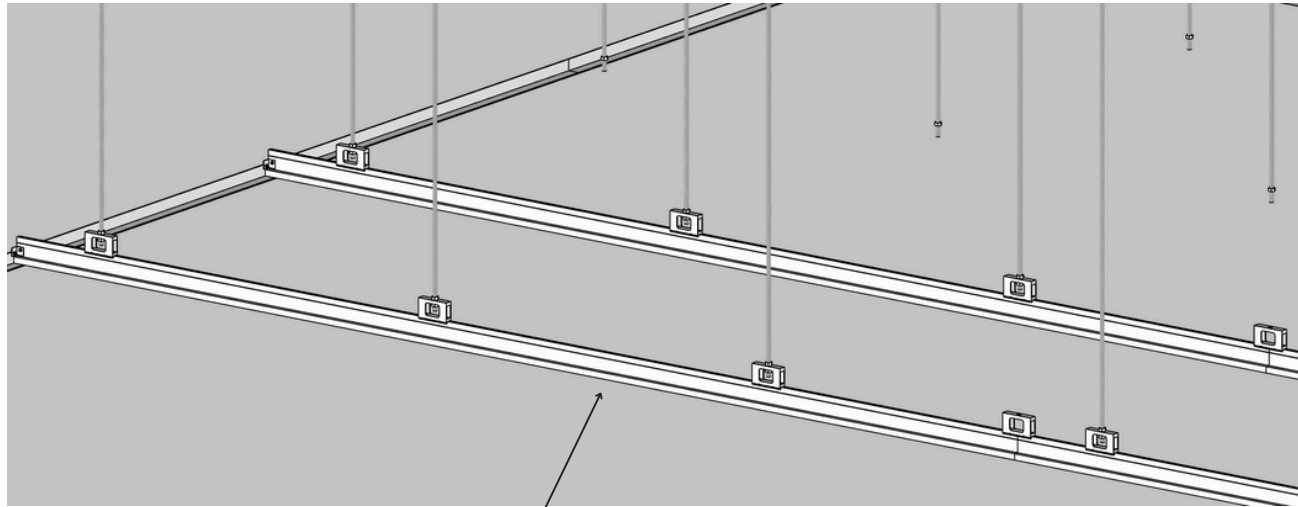


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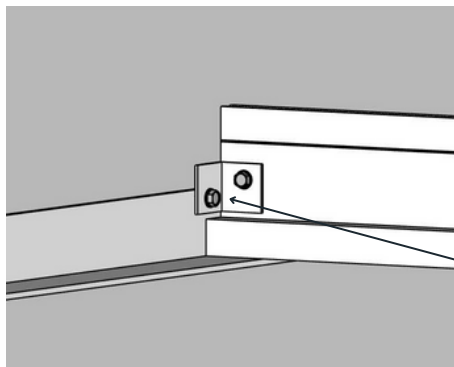
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INSTALL 12' MAINS

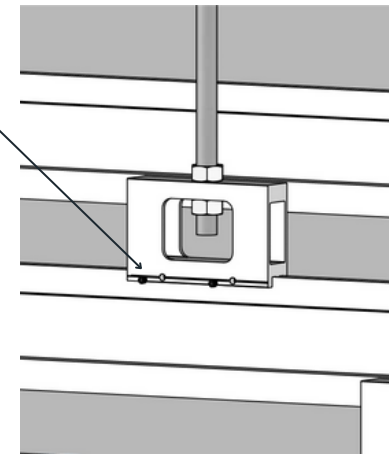


PICS GLOBAL HAT/ROD MOUNTING
BRACKET & UPPER SPLICE



SECURE THE PICS GLOBAL ROD HAT
BRACKETS IN POSITION WITH THE
(2) PREINSTALLED #8-32 X 3/16" SET
SCREWS WITH 5/16" HEX DRIVE.
TIGHTEN FLUSH TO EXTRUSION, DO NOT
OVER TIGHTEN

PICS GLOBAL HAT/ROD MOUNTING
BRACKET & UPPER SPLICE



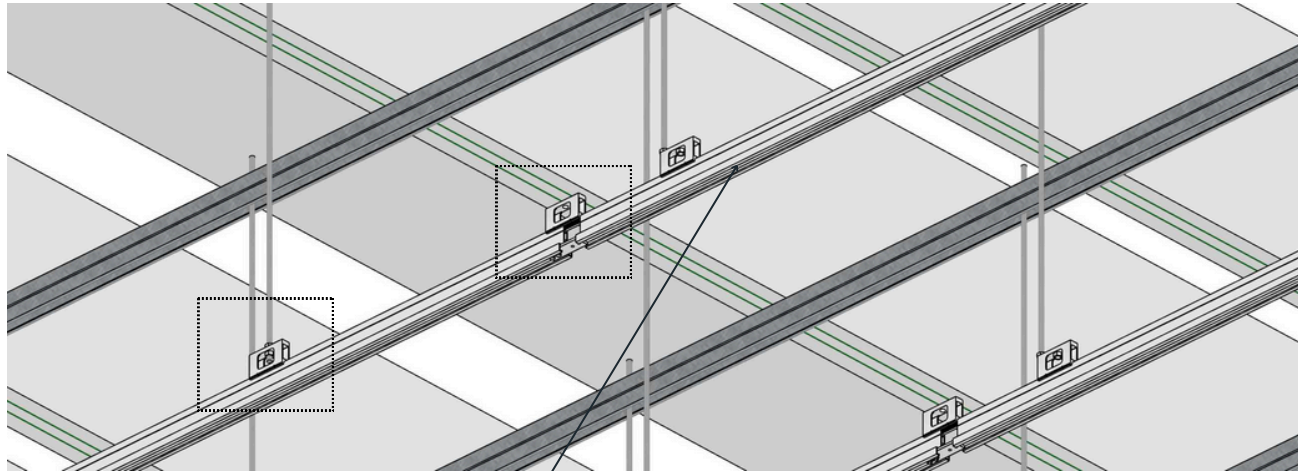


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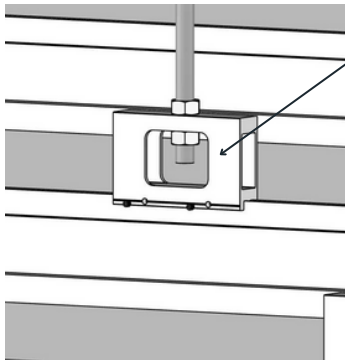
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INSTALL 12' MAINS NOTE: ALL SPLICE CONNECTIONS MUST BE WITHIN 12" OF MOUNTING ROD LOCATION.

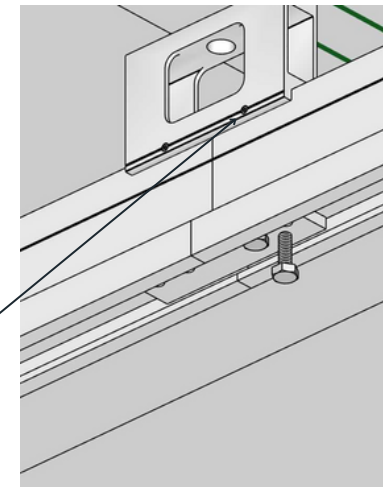


RAISE THE NEXT 12' MAIN; INSERT UPPER/LOWER SPLICES INTO OPEN END OF 12' MAIN (NOTING ALIGNMENT STRIPES) AND SECURE IN PLACE.



SECURE THE PICS GLOBAL ROD HAT BRACKETS IN POSITION WITH THE (2) PREINSTALLED #8-32 X 3/16" SET SCREWS WITH 5/16" HEX DRIVE. TIGHTEN FLUSH TO EXTRUSION, DO NOT OVER TIGHTEN.

CONNECT THE SECTIONS TOGETHER BY FASTENING THE BOTTOM SPLICE PLATE TO BOTH MAINS USING (2) 1/4-20 X 3/4" HEX HEAD BOLTS (STEEL, FULLY THREADED), TIGHTENED TO 50 IN-LBS. SECURE UPPER SPLICE INTO POSITION MAKING SURE BOTH SET SCREWS ARE TIGHTENED FLUSH TO EXTRUSION.



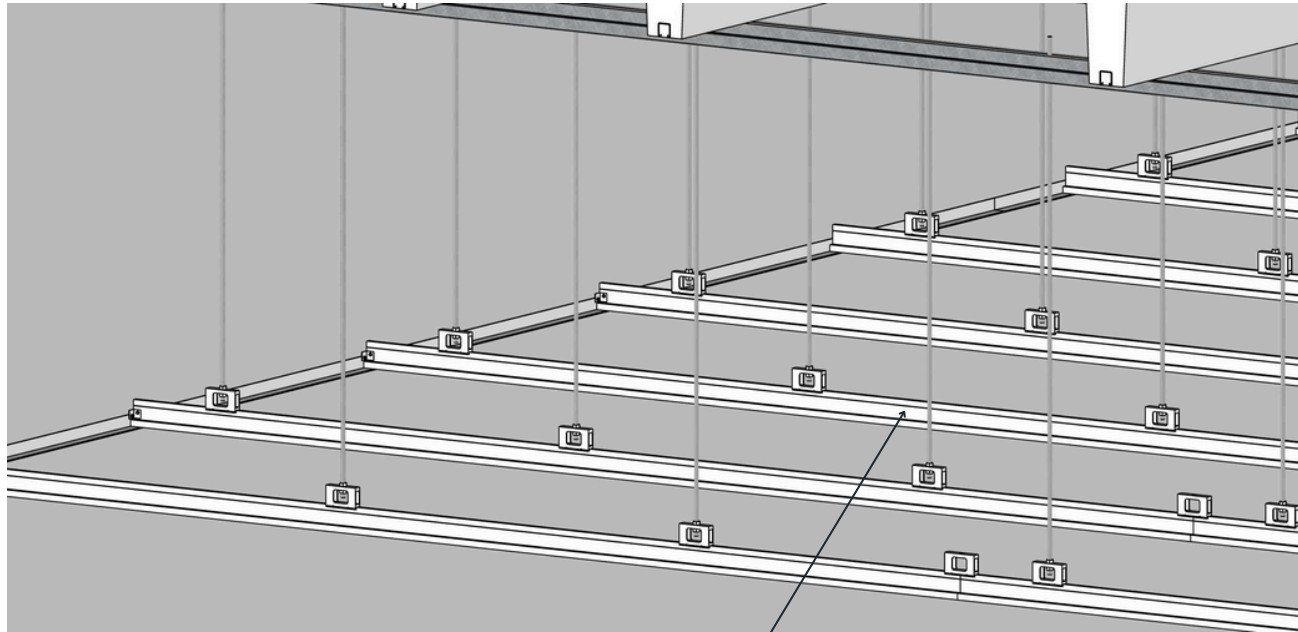


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INSTALL 4' X 12' SECTIONS



INSTALL NEXT ROW OF 12' MAINS FOLLOWING
THE PREVIOUS STEPS UNTIL ALL ROWS HAVE
BEEN COMPLETED.

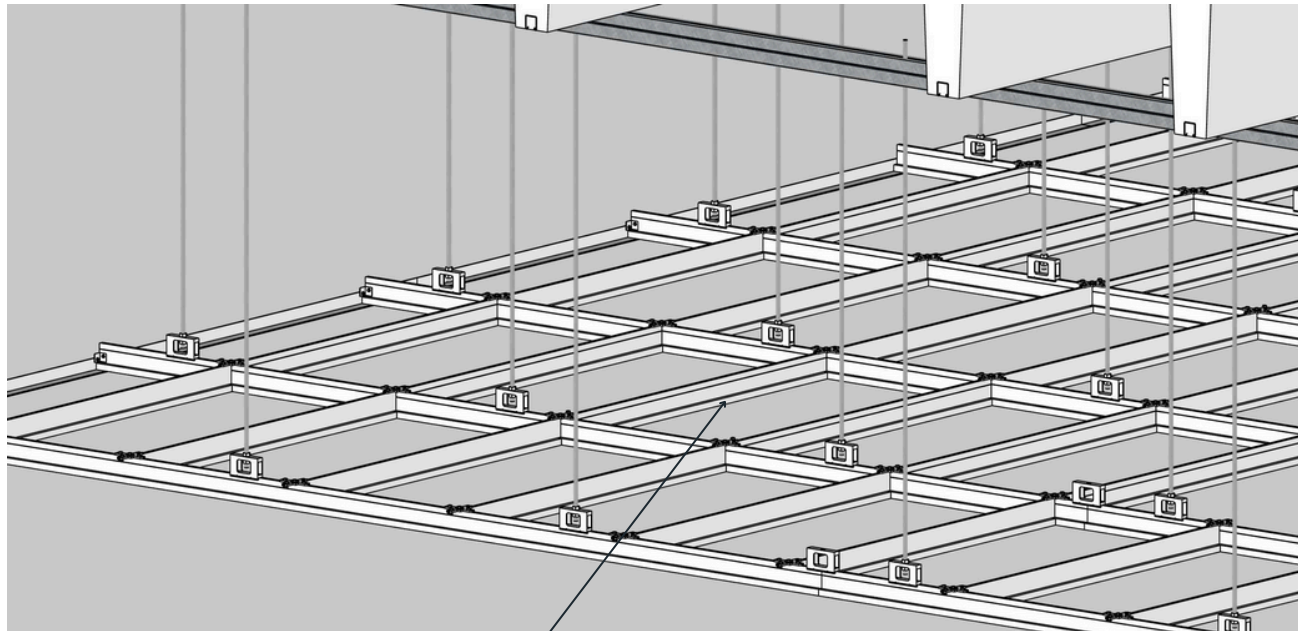


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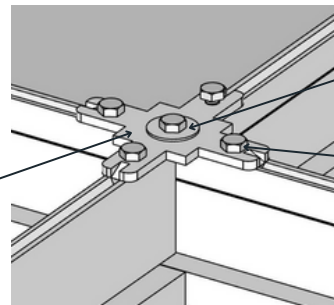
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INSTALL PICS GLOBAL 4' NOTCHED CROSS TEE



INSTALL NEXT ROW OF 12' MAINS FOLLOWING
THE PREVIOUS STEPS UNTIL ALL ROWS HAVE
BEEN COMPLETED.

INSTALL NEXT ROW OF 12' MAINS FOLLOWING
THE PREVIOUS STEPS UNTIL ALL ROWS HAVE
BEEN COMPLETED.



OVERSIZED WASHER FOR
CENTER BOLT

1/4-20 X 3/4" HEX HEAD BOLTS
(STEEL, FULLY THREADED),
TIGHTENED TO 50 IN-LBS

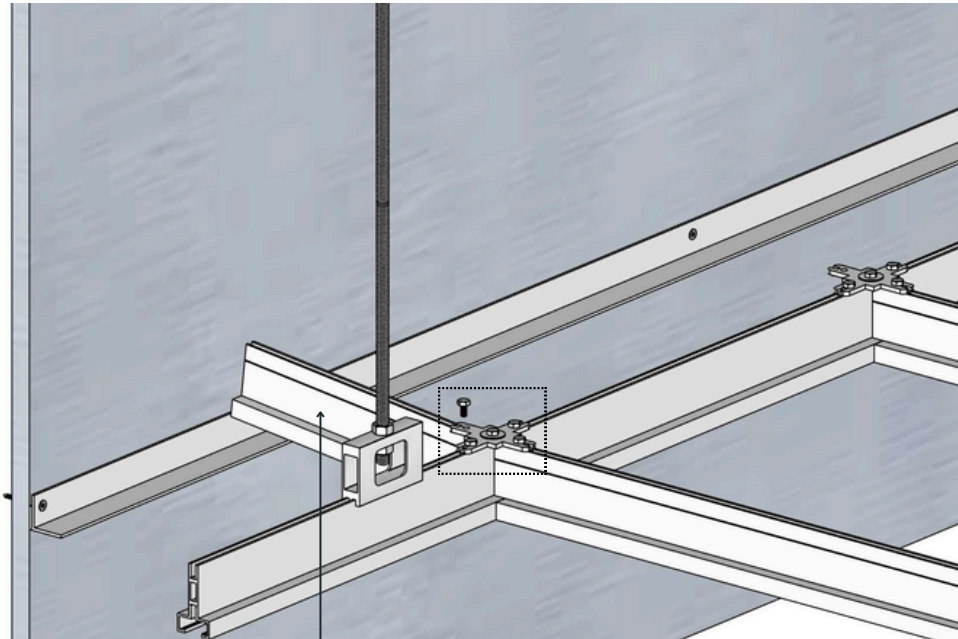


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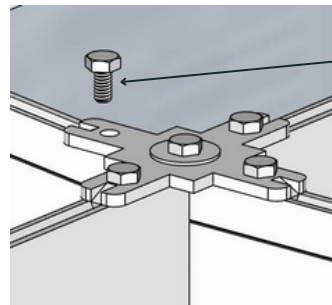
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INSTALL CROSS TEE TO PERIMETER



INSTALL NEXT ROW OF 12' MAINS FOLLOWING
THE PREVIOUS STEPS UNTIL ALL ROWS HAVE
BEEN COMPLETED.



1/4-20 X 3/4" HEX HEAD BOLT
(STEEL, FULLY THREADED),
TIGHTENED TO 50 IN-LBS

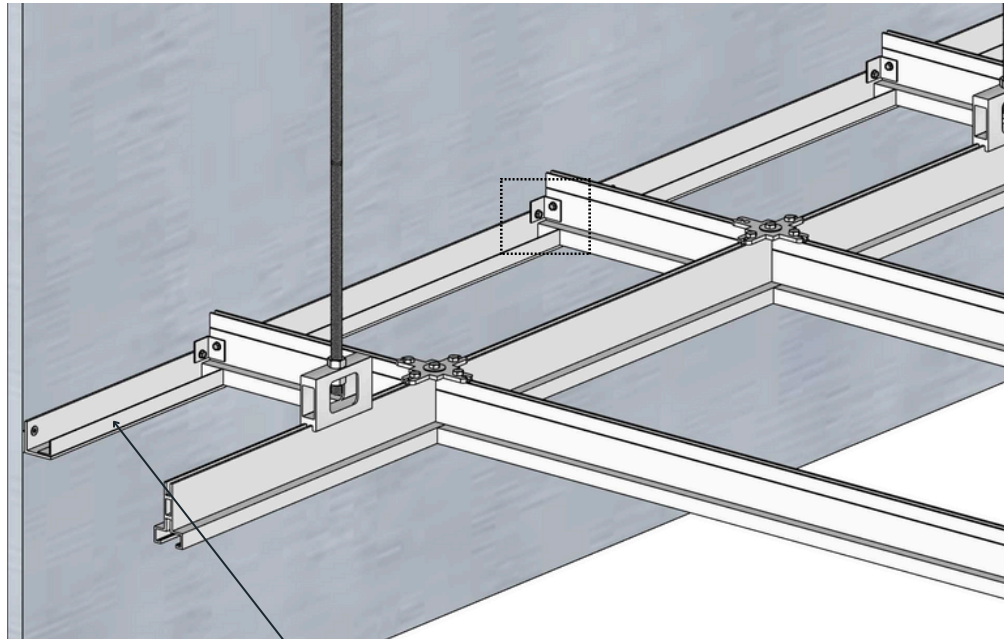


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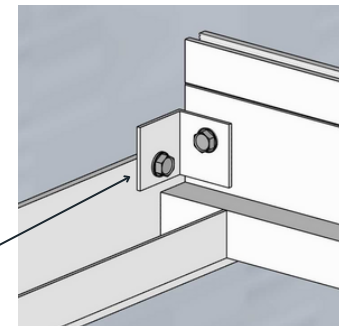
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INSTALL EDGE TRIM



INSTALL 3/4" X 3/4" EDGE TRIM PIECES. THESE ARE CUT TO 46.36" (OR 46.96" FOR CREEP) LENGTHS AND ARE PROVIDED WITH DOUBLE SIDED TAPE PRE-ATTACHED.

FOR FIXED PERIMETER, USE 1" X 1" L-RACKETS AND SELFDRILLING SCREWS TO SECURE EDGE TEES TO PERIMETER WALL ANGLE (NOT NEEDED FOR TEES SHORTER THAN 12").



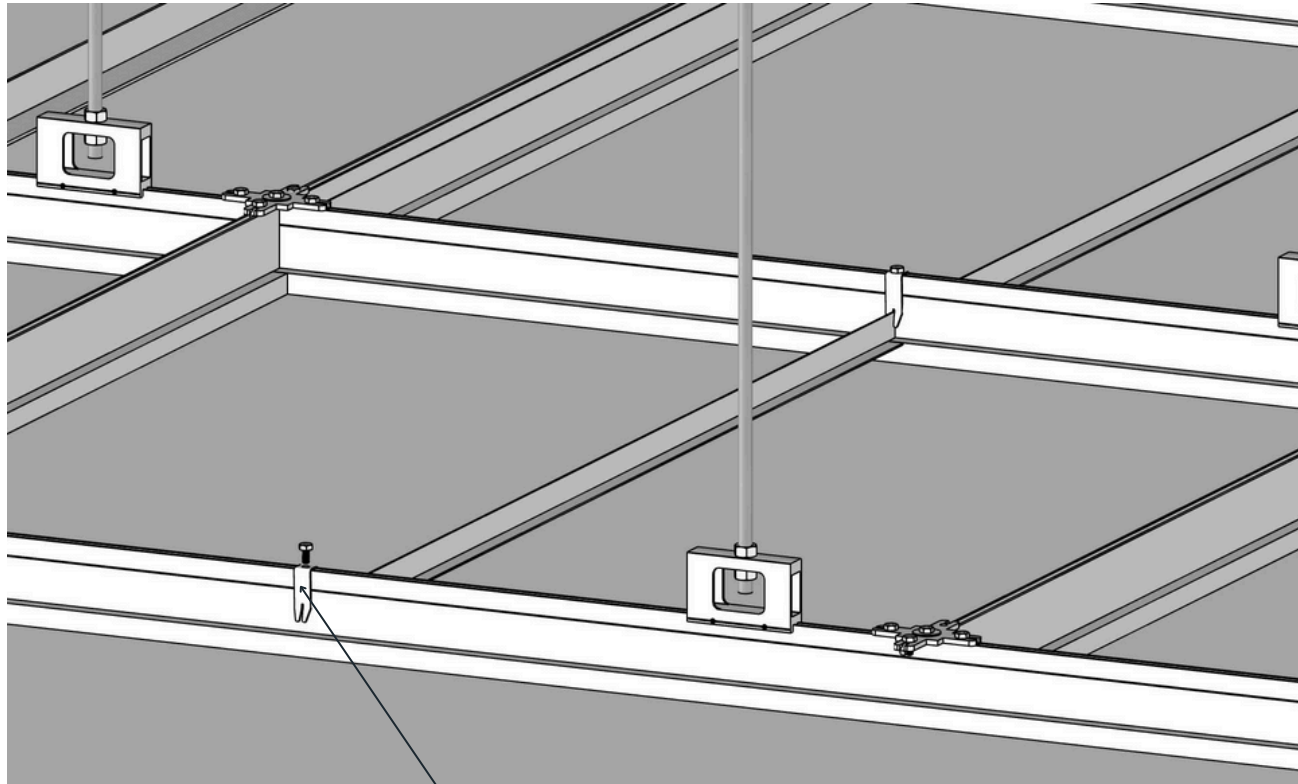


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(OPTIONAL) INSTALL LITE TEE



IF SPECIFIED, INSTALL NOTCHED LITE TEE IN PLACE OF STRUCTURAL CROSS TEES WHERE NEEDED. SECURE IN PLACE WITH LITE TEE HOLD DOWN CLIP & (1) 1/4"-20 X 1/2" SCREW TIGHTENED TO 50IN-LBS.