

# Construction Detail Manual



## EXTREME PANEL TECHNOLOGIES

800-977-2635  
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**Structural Insulated  
Panel Association**



# TOOLS & MISCELLANEOUS ITEMS NEEDED FOR CONSTRUCTION

8D-2" X .113" GALV. RING SHANK NAILS  
 1 1/2" SCREWS (#8 OR #9)  
 3" CONSTRUCTION LAGS OR #9 x 3" SCREWS  
 10D OR 16D X .131" NAILS  
 MINIMAL EXPANDING FOAM & FOAM GUN  
 SIP SEALANT (20 oz. SAUSAGE PACK)  
 MANUAL OR MILWAUKEE CORDLESS CAULKING GUN(FOR 20 oz. SAUSAGE PACK)  
 ELECTRIC FOAM CUTTER  
 EXTREME SIP PULLER KIT  
     OR 2" NYLON LOAD STRAP (WITH FLAT HOOK)  
 LIFTING PLATES FOR ROOF & TALL WALL SIPs  
 PRE-CUT TREATED BOTTOM PLATE FOR WIDTH OF SIP  
 MILWAUKEE 22° CORDLESS OR AIR NAILER  
 3/8" DRILL OR IMPACT DRIVER (CORDLESS)  
 1/2" DRILL OR IMPACT (FOR LONG SIP SCREWS)  
 CIRCULAR SAW(s)  
 RECIPROCATING SAW (6" & 12" BLADES)  
 POWER PLANER  
 1 1/4" OR 1 1/2" CHIPPER BIT (FOR ELECTRICAL CHASE THROUGH PLATES)  
 T25 & T30 TORX DRIVER BIT  
 4'-0" LEVEL (min)  
 CHALK LINE  
 DRILL BIT FOR ANCHOR HOLES IN BOTTOM PLATE  
 HAMMER

## MATERIAL TERMS IN GUIDE DETAILS VS. ACTUAL ITEMS SENT

.113" X 2.5" NAILS	8D-2" X .113" RING SHANK(ENGINEER APPROVED)
10D OR 16D .131" NAILS	1 1/2" BTX SCREWS FOR STICHING (ACQ APPROVED) 10D OR 16D .131" NAILS(SUPPLIED BY OTHER) TYP-12" O.C. IN 2 ROWS STAGGERED 3" CTX CONSTRUCTION LAG SCREWS TYP-24" O.C. IN 2 ROWS STAGGERED #9X3" BTX SCREWS AS REQUESTED TYP-12" O.C. IN 2 ROWS STAGGERED
SIP SCREWS	TRUFAST PANEL SCREWS
SIP SEALANT	SIP-SEAL SEALANT
SIP TAPE	SIP-SEAL VAPOR TAPE

# SPECIAL CONSIDERATIONS

- EXTREME SIPs, AS WITH MOST BUILDING COMPONENTS, MAY BE EXPOSED TO RAIN AND OR SNOW DURING THE INSTALLATION OF A PROJECT. MOISTURE MUST BE ALLOWED TO DISSIPATE AND THE SIPs MUST BE DRY PRIOR TO FINISHING, INCIDENTAL EXPOSURE TO PRECIPITATION IS NOT PROBLEMATIC. IT IS STILL RECOMMENDED THAT PROLONGED WATER EXPOSURE BE MINIMIZED AND THAT WEATHER RESISTIVE MATERIALS BE PLACED OVER THE SIPs AS SOON AS POSSIBLE.
- **DO NOT UNDER ANY CONDITION, COVER TOP SIDE OF ROOF SIPs ENTIRELY WITH ANY PEAL & STICK NON-PERMEABLE PRODUCT** (ICE & WATER SHIELD) MATERIAL OTHER THAN WHERE REQUIRED BY CODE. THIS WILL VOID ANY WARRANTY OF SIPs. CONSULT EXTREME PANELS WITH ANY CLARIFICATION OR QUESTIONS.
- FIELD CUTTING AND TRIMMING OF SIPs MAY BE REQUIRED DUE TO THE IMPERFECTIONS OF BUILDING MATERIALS. SIPs TEND TO GROW IN LENGTH AS THEY ARE PUT TOGETHER. FIELD MEASURE SIPs AS THEY ARE INSTALLED TO MAKE SURE CRITICAL DIMENSIONS ARE MET, FOR EXAMPLE, CENTERLINES OF WINDOWS AND STRUCTURAL BEARING POINTS.
- ANY BUILDING SIDEWALL THAT HAS 60'-0" OR MORE WITH NO PARTITIONS MUST HAVE PROPER BRACING FROM RAFTER TO SIDEWALL FOR STRUCTURAL STRENGTH. EXAMPLE: SPECIAL TRUSS CONNECTIONS, KNEE BRACING, PARTITION WALL, OR TEMPORARY BRACING UNTIL SUCH BRACING IS COMPLETED.

# ELECTRICAL INSTALLATION HINTS

1. USE VERTICAL CHASES WHENEVER POSSIBLE.
2. USE A REMODELER'S BOX THAT CLAMPS THE WIRE SECURELY TO THE BOX AND HAS FLANGES SO THAT THE BOX CAN BE FASTENED TO THE SIP SKIN.
3. DO NOT CUT LONG GROOVES IN THE SIP SKINS. (IF ABSOLUTELY NECESSARY USE A 24" DRILL AND GO FROM ONE 4" ACCESS HOLE TO ANOTHER ACCESS HOLE.)
4. USE INTERIOR STUD WALLS WHENEVER POSSIBLE. NAIL 2x BLOCKING TO THE STUD THAT ABUTS THE WALL SIP IN ORDER TO BRING THE ELECTRICAL BOX OUT FROM THE CORNER. RATHER THAN TRYING TO BEND AROUND A 90° TURN, DRILL A LONG DIAGONAL HOLE FROM THE STUD THROUGH THE WALL SIP AND INTO THE HORIZONTAL CHASES. WIRES WILL SLIDE MUCH EASIER THROUGH THIS CONFIGURATION.
5. PUSH ALL WIRES THROUGH A CHASE AT THE SAME TIME. WITH ELECTRICIAN'S PLIERS, FOLD AND CRIMP THE LONGEST WIRE BACK ON ITSELF ABOUT 1". USE ELECTRICAL TAPE AND COVER THAT END. STAGGER THE ENDS OF ANY ADDITIONAL WIRES AND TAPE OVER THESE. KEEP ALL WIRES FLAT WHEN TAPING TOGETHER. HAVE 8"-10" OF STRAIGHT WIRE TO SLIDE INTO THE ELECTRICAL CHASE HOLES.
6. TO GAIN ACCESS AT ELECTRICAL CHASE INTERSECTIONS USE A 4" HOLE SAW. USE A FLAT BLADE SCREWDRIVER TO PRY OUT PLUG. NAIL THE PLUG TO THE WALL FOR LATER REINSTALLATION. AFTER ALL WIRES ARE PULLED, SPRAY FOAM THE HOLE AND REPLACE THE PLUG.
7. AVOID HORIZONTAL RUNS BETWEEN OUTLETS AND SWITCHES UNLESS THE DISTANCE IS SHORT (8' OR LESS) OR THERE ARE NO OTHER OPTIONS. IT IS USUALLY QUICKER AND MORE ECONOMICAL TO USE THE VERTICAL CHASES TO GO INTO FLOOR AND ROOF SYSTEM.

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INSTRUCTIONS FOR APPLYING TOW-PART EXPANDING FOAM SEALANT  
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# 100 Series: General Details



**EXTREME PANEL**  
**TECHNOLOGIES**



**ALLOWABLE IN-PLANE RACKING SHEAR STRENGTH FOR SIP SHEAR WALLS  
4 1/2" THROUGH 12 1/4" SIP THICKNESS WIND AND SEISMIC LOADS. <sup>1</sup>**

SPLINE TYPE <sup>2</sup>	Mark	FRAMING MINIMUM SG <sup>3</sup>	MINIMUM FACING CONNECTIONS <sup>3</sup>			SHEAR STRENGTH <sup>4</sup> (plf)	SEISMIC DESIGN CATEGORIES
			Chord	Plate	Spline		
Block or Lumber Spline		0.50	0.113" x 2-1/2" nails, 6" O.C.	0.113" x 2-1/2" nails, 6" O.C.	(7/16" OSB - 3" Box/Block Spline) 0.113" x 2-1/2" nails, 6" O.C.	410	A,B,C <sup>5,6</sup>
		0.50	0.113" x 2-3/8" nails, 6" O.C. stagger (2 rows)	0.113" x 2-3/8" nails, 6" O.C.	(7/16" OSB - 3" Box/Block Spline) 0.113" x 2-3/8" nails, 6" O.C.	460	A,B,C <sup>5,6</sup>
		0.42	0.113" x 2-3/8" nails, 6" O.C. stagger (2 rows)	0.113" x 2-3/8" nails, 4" O.C. stagger (2 rows)	(7/16" OSB - 3" Box/Block Spline) 0.113" x 2-3/8" nails, 4" O.C.	700	A,B,C <sup>5,6</sup>
		0.42	0.148" x 2-3/8" nails, 6" O.C. stagger (2 rows)	0.148" x 2-3/8" nails, 3" O.C.	(23/32" OSB - 3" Box/Block Spline) 0.148" x 2-3/8" nails, 3" O.C. stagger (2 rows)	1000	A,B,C <sup>5,6</sup>
		0.50	0.113" x 2-1/4" nails, 6" O.C.	0.113" x 2-1/4" nails, 3" O.C.	(7/16" OSB - 3" Box/Block Spline) 0.113" x 2-1/2" nails, 6" O.C.	360	A,B,C,D, E,F <sup>7,8,9</sup>
		0.50	0.113" x 2-1/4" nails, 6" O.C.	0.113" x 2-1/4" nails, 6" O.C.	(23/32" OSB - 3" Box/Block Spline) 0.113" x 2-1/4" nails, 6" O.C.	360	A,B,C,D, E,F <sup>7,8,9</sup>
		0.50	0.113" x 2-3/8" nails, 3" O.C. stagger (2 rows)	0.113" x 2-3/8" round head nails, 3" o.c. stagger (2 rows)	(23/32" OSB - 3" Box/Block Spline) 0.113" x 2-3/8" nails, 3" O.C. stagger (2 rows)	720	A,B,C,D, E,F <sup>7,8,10</sup>
		0.50	0.113" x 2-3/8" nails, 2" O.C. stagger (2 rows)	0.113" x 2-3/8" round head nails, 2" o.c. stagger (2 rows)	(23/32" OSB - 3" Box/Block Spline) 0.113" x 2-3/8" nails, 2" O.C. stagger (2 rows)	920	A,B,C,D, E,F <sup>7,8,10</sup>

For **SI**: 1 inch = 25.4 mm; 1 plf = 14.6 N/m.

- Chords, holdowns and connections to other structural elements must be designed by a registered design professional in accordance with accepted engineering practice.
- Spline type at SIP-to-SIP joints, solid chord members are required at each end of each shear wall segment. When lumber splines are used they must be interconnected using 10d common nails [0.148-inch-diameter x 3 inches (3.8 mm x 76 mm)] spaced 5-inches (127 mm) on center. Lumber spline fastening to be verified by a registered design professional.
- Required connections must be made on each side of the SIP. Dimensional or engineered lumber shall have an equivalent specific gravity not less than specified.
- For design to resist seismic forces, shear wall height-width ratios greater than 2:1, but not exceeding 3.5:1, are permitted for assemblies using lumber splines provided the allowable shear strength values in this table are multiplied by 2w/h.
- Shear strength values, as published, are limited to assemblies resisting wind or seismic forces when the aspect ratio (height:width) does not exceed 2:1.
- Reference ICC-ES ESR-4524 Evaluation Report for additional information.

**SPECIFIC TO SEISMIC DESIGN CATEGORIES A,B,C,D,E AND F:**

- Shear strength values are limited to assemblies resisting wind or seismic forces where the aspect ratio (height:width) does not exceed 1:1 for Type 'S' SIP connections or 2:1 for Type 'L' SIP connections.
- The shear wall configurations are permitted in Seismic Design Categories D,E, and F. Such walls shall be designed using the seismic design coefficients and limitations provided in ASCE 7 for light-framed walls sheathed with wood structural panels rated for shear resistance. These SIPs shall use the following factors for design: Response Modification Coefficient,  $R = 6.5$ ; System Overstrength Factor,  $\Omega_0 = 3.0$ ; Deflection Amplification Factor,  $C_d = 4.0$ .
- Reference ICC-ES ESL-1208 Listing Report for additional information.
- Reference ICC-ES ESL-1207 Listing Report for additional information.

N.T.S.

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**EPT -100S**

**ICC-ES EVAL. REPORT ESR-4524  
ICC-ES SIP SHEAR WALL ASSEMBLIES**

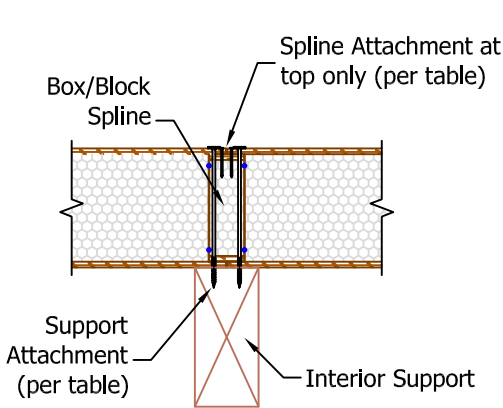


**MAXIMUM ALLOWABLE IN-PLANE SHEAR  
FOR DIAPHRAGMS SUBJECTED TO WIND OR SEISMIC LOADING <sup>1</sup>**

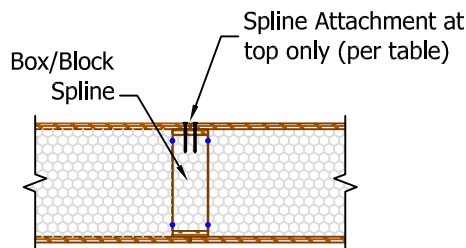
MINIMUM CONNECTIONS <sup>2</sup>					ALLOWABLE SHEAR LOAD (plf)	G' APPARENT SHEAR STIFFNESS (lbf/in)	MAXIMUM ASPECT RATIO
Mark	Interior Supports <sup>2</sup> (Figure A)	Box/Block Spline <sup>3</sup> (Figure B)	Boundary <sup>4</sup> (Figure C)				
			Support	Spline			
	No. 14 SIP Screw with 1" penetration 12" on center	0.113" x 2.5" nails, 3" on center 7/16" OSB - 3" Box/Block Spline	No. 14 SIP Screw with 1" penetration 12" on center	0.113" x 2.5" nails, 6" on center	430	24000	4:1
	No. 14 SIP Screw with 1" penetration 12" on center	0.113" x 2.5" nails, 3" on center, 2 rows, staggered 7/16" OSB - 3" Box/Block Spline	No. 14 SIP Screw with 1" penetration 3" on center	0.113" x 2.5" nails, 4" on center	460	30300	4:1
	No. 14 SIP Screw with 1" penetration 2" on center	0.113" x 2.5" nails, 3" on center, 2 rows, staggered 7/16" OSB - 3" Box/Block Spline	No. 14 SIP Screw with 1" penetration 2" on center	0.113" x 2.5" nails, 1.5" on center	655	41300	4:1
	No. 14 SIP Screw with 1" penetration 4" on center	0.113" x 2.5" nails, 3" on center, 2 rows, staggered 7/16" OSB - 3" Box/Block Spline	No. 14 SIP Screw with 1" penetration 4" on center	0.113" x 2.5" nails, 3" on center	795	93700	3:1
	No. 14 SIP Screw with 1" penetration 4" on center	0.113" x 2.5" nails, 6" on center, 2 rows, staggered 23/32" OSB - 4" Box/Block Spline	No. 14 SIP Screw with 1" penetration 4" on center	0.113" x 2.5" nails, 6" on center	1130	110600	3:1

For **SI**: 1 inch = 25.4 mm; 1 lb = 4.45 N; 1 plf = 14.6 N/m.

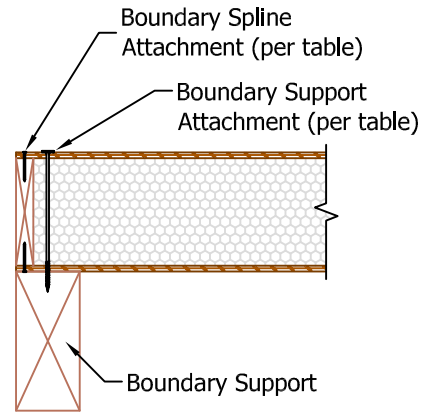
- The maximum diaphragm length-to-width ratio shall not exceed 4:1. Load may be applied parallel to continuous panel joints.
- Interior supports shall be spaced not to exceed 12 feet (3.66 m) on center and have a minimum width of 3 1/2 inches (88.9 mm) and a specific gravity of 0.42 or greater. Specified fasteners are required on both sides of panel joint where panels are joined over a support. See Figure A.
- Box/Block Spline fastened at top only, at interior panel-to-panel joints. Specified fasteners are required on both sides of panel joint. See Figure B.
- Boundary spline shall be solid 1 1/2 inches (38.1 mm) wide, minimum, and have a specific gravity of 0.42 or greater. Boundary supports shall have a minimum width of 3 1/2 inches (88.9 mm) and a specific gravity of 0.42 or greater. Specified spline fasteners are required through both facings. See Figure C.
- Diaphragms shall be specified in accordance with accepted engineering practices.



**FIGURE A -  
INTERIOR SUPPORT**



**FIGURE B -  
BOX/BLOCK SPLINE**

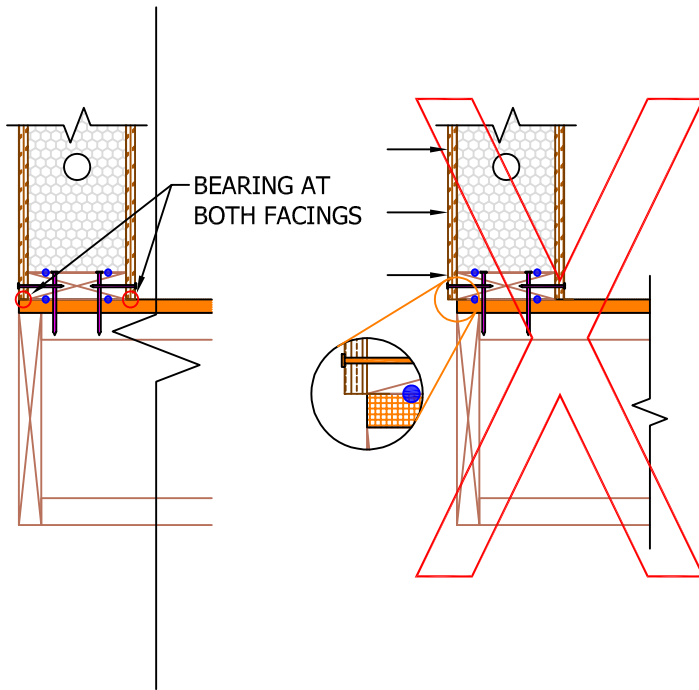


**FIGURE C -  
BOUNDARY**

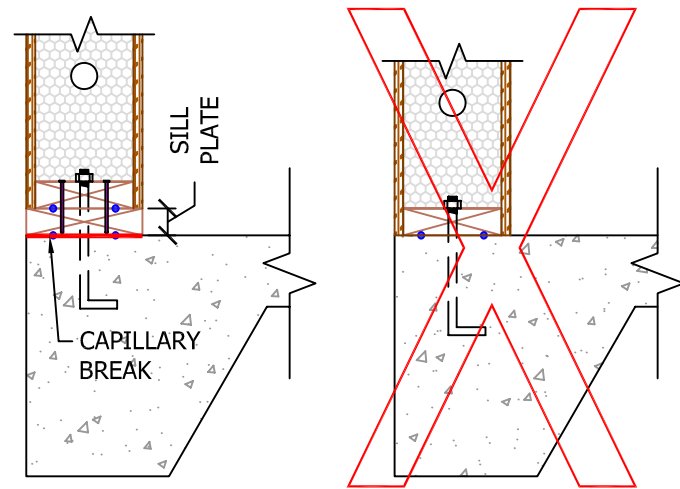
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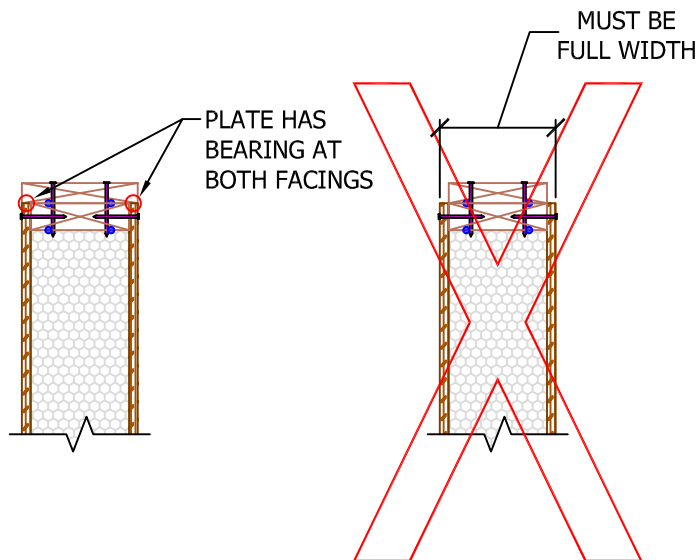
BOTH SIP WALL FACINGS MUST HAVE FULL BEARING. EXTERIOR FACING MUST NOT HANG OVER EDGE OF FLOOR SYSTEM OR OTHER BEARING.



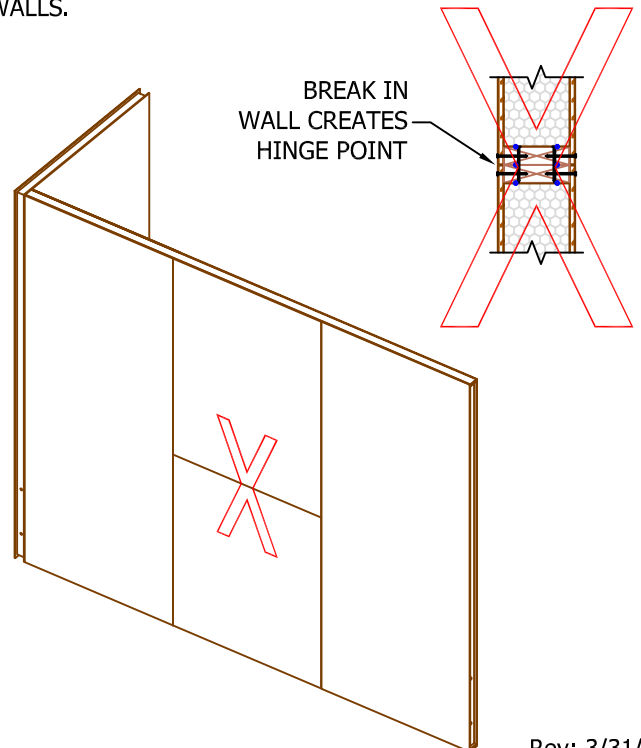
BOTH SIP WALL FACINGS CANNOT COME IN DIRECT CONTACT WITH CONCRETE. BEST PRACTICE IS TO USE A TREATED SILL PLATE BETWEEN CONCRETE AND BOTH SIP FACINGS. THERE MUST BE A CAPILLARY BREAK BETWEEN CONCRETE AND BOTH SIP FACINGS.



CAP PLATES INSTALLED TO TOP OF SIP WALL MUST BE FULL WIDTH OF SIP.



DO NOT HAVE UNSUPPORTED HORIZONTAL JOINTS IN WALL UNLESS SPECIFIC CONDITION IS DESIGNED BY A LICENSED STRUCTURAL ENGINEER. I.E. DON'T STACK WALLS.



N.T.S.

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EPT-101A

SIP BEST PRACTICES EXAMPLES



## SIP BEST PRACTICES:

1. HANDLE SIPS WITH APPROPRIATE CARE. PROTECT SIP CORNERS AND AVOID LIFTING SIPS BY EDGE OF TOP FACING.
2. STORE SIPS AND ACCESSORIES A MINIMUM OF 3 INCHES ABOVE GROUND/SURFACE. SUPPORT SIPS FLAT ON MINIMUM OF 3" WIDE STICKERS WITH LENGTH EQUAL TO THE WIDTH OF THE SIPS WITH STICKERS PLACED NO FURTHER THAN FOUR FEET ON CENTER, OR EQUIVALENT.
3. PROTECT SIPS AND ACCESSORIES FROM WEATHER WITH BREATHABLE OPAQUE, WHITE, OR LIGHT-COLORED COVERINGS. IMPORTANT! DO NOT USE CLEAR OR COLORED PLASTIC FILMS TO COVER SIPS. KEEP SIPS COVERED TO AVOID EXPOSURE TO WEATHER FOR AN EXTENDED PERIOD OF TIME. EXPOSURE TO MOISTURE CAN CAUSE WOOD PRODUCTS TO SWELL MAKING INSTALLATION MORE DIFFICULT. PROTECT SIPS FROM WEATHER AS SOON AS PRACTICAL AFTER INSTALLATION.
4. INSTALL FASTENERS FLUSH TO SIP FACING SURFACE. BE SURE NOT TO OVERDRIVE SCREW HEADS INTO SIP FACINGS.
5. IF FIELD CUTTING OPENINGS BE SURE THAT THE EDGE OF THE OPENING CUTS STOP AT A COMMON CORNER. CONTINUATION OF THE CUT PAST THE CORNER SIGNIFICANTLY DECREASES THE STRUCTURAL CAPACITY OF THE SIP.
6. PROVIDE LEVEL AND SQUARE FOUNDATIONS AND/OR SUPPORTING FLOORS. REMOVE DEBRIS FROM SILL PLATE BEFORE SIP INSTALLATION.
7. INSTALL SIPS IN ACCORDANCE WITH APPROVED DRAWINGS. DOUBLE CHECK SIP SIZES AND ELECTRICAL CHASE ORIENTATION WITH SIP SHOP DRAWINGS BEFORE INSTALLATION.
8. DETAILS SPECIFYING SIP TAPE AND SEALANT APPLICATION MUST BE FOLLOWED.
9. PROVIDE ADEQUATE BRACING OF SIPS DURING INSTALLATION.
10. FOLLOW PROPER NAILING REQUIREMENTS ACCORDING TO DETAILS AND JOB SPECIFIC ENGINEERING. BE SURE TO ADJUST YOUR NAIL GUN SO THAT NAIL HEAD IS FLUSH TO SIP FACINGS.
11. USE FACTORY PROVIDED ELECTRICAL CHASES IN SIP CORE OR SURFACE MOUNT CONDUIT. FACINGS SHOULD NOT BE CUT HORIZONTALLY OR VERTICALLY IF ADDITIONAL CHASES ARE REQUIRED. CONSULT YOUR SIPS REPRESENTATIVE TO DISCUSS OPTIONS.
12. MAKE SURE TO PRE-DRILL TOP AND BOTTOM PLATES FOR THE VERTICAL ELECTRICAL CHASES IN THE WALL SIPS. PRE-DRILL DRILL VERTICAL MEMBERS AT HORIZONTAL CHASE LOCATIONS.
13. SIPS CAN BE HEAVY. LIFT AND PLACE SIPS WITH APPROPRIATE EQUIPMENT.
14. WHEN USING 2X, ENGINEERED WOOD, OR I-JOIST SPLINES, USE ONLY CONTINUOUS MEMBERS; STRUCTURAL SPLINES MUST BE CONTINUOUS BETWEEN SUPPORTS.
15. PROVIDE APPROPRIATE BEARING FOR ROOF SIPS PER DETAILS.
16. BEFORE COVERING ROOF SYSTEM MAKE CERTAIN THAT OSB MOISTURE CONTENT OF TOP + BOTTOM FACINGS, AND SPLINE MATERIAL DOESN'T EXCEED APA MAXIMUM MOISTURE CONTENT RECOMMENDATIONS.
17. MAKE SURE SIPS ARE CLEAN AND DRY BEFORE APPLYING INTERIOR OR EXTERIOR MATERIALS.
18. ALL SIP ROOF PENETRATIONS SHOULD BE REVIEWED BY A LICENSED STRUCTURAL ENGINEER.
19. USE CODE RECOGNIZED FLASHINGS AND EXTERIOR WALL AND ROOF COVERINGS.
20. USE CODE RECOGNIZED THERMAL BARRIERS ON INTERIOR PER BUILDING CODES.
21. PLUMBING SHOULD NOT BE INSTALLED WITHIN SIPS; SEE EPT-112 AND EPT-111 FOR ALTERNATIVES.
22. FILL ALL VOIDS WITH LOW EXPANDING FOAM COMPATIBLE WITH EPS.
23. SIP STRUCTURES SHOULD BE REVIEWED BY A LICENSED STRUCTURAL ENGINEER. SIP SUPPLIER IS NOT RESPONSIBLE FOR ERRORS IN DESIGN OR ENGINEERING.
24. ENGINEERED DETAILS TAKE PRECEDENCE OVER GENERIC DETAILS.
25. PROJECT MUST MEET LOCAL CODE.
26. FIELD MODIFICATIONS TO SIPS, SUCH AS OPENINGS AND PENETRATIONS, SHOULD BE REVIEWED BY A LICENSED N.T.S. STRUCTURAL ENGINEER.

Rev: 9/19/2022

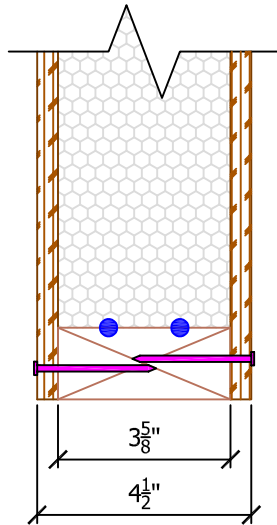
EPT-101B

SIP BEST PRACTICES NOTES

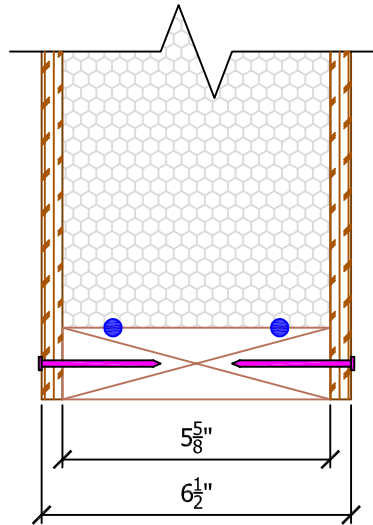


**NOTES:**

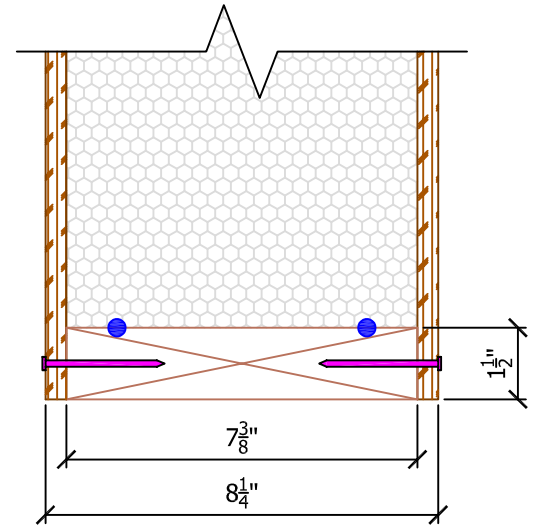
1. SIPS ARE AVAILABLE IN THICKNESSES FROM 4-1/2" THROUGH 12-1/4".
2. SIPS ARE SIZED TO USE STANDARD 2X LUMBER PLATING DIMENSIONS + 1/8" TO ACCOMMODATE LUMBER MILL VARIATIONS.
3. SIP CORE THICKNESS WILL NEVER CHANGE. STANDARD FACINGS ARE 7/16" OSB ON BOTH SIDES.



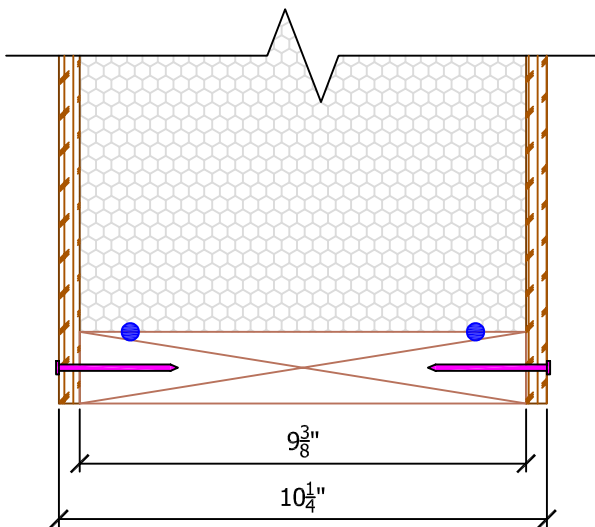
R-VALUE		
	EPS	
75° F	15	
40° F	16	



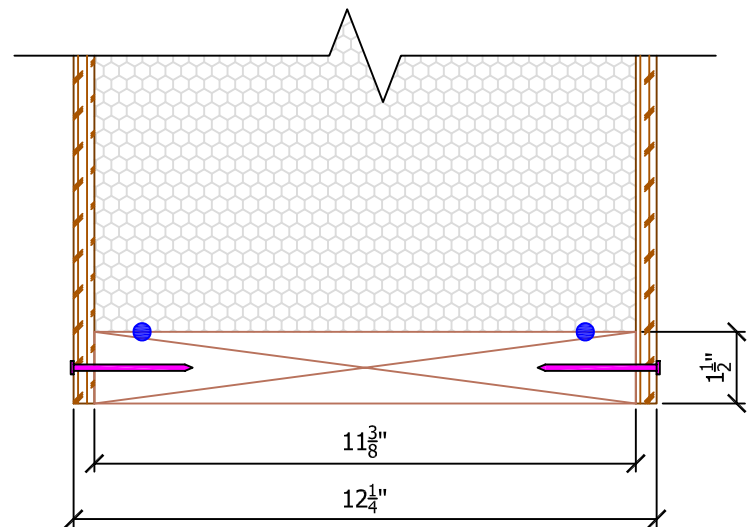
R-VALUE		
	EPS	
75° F	23	
40° F	25	



R-VALUE		
	EPS	
75° F	30	
40° F	32	



R-VALUE		
	EPS	
75° F	37	
40° F	40	



R-VALUE		
	EPS	
75° F	45	
40° F	49	

N.T.S.

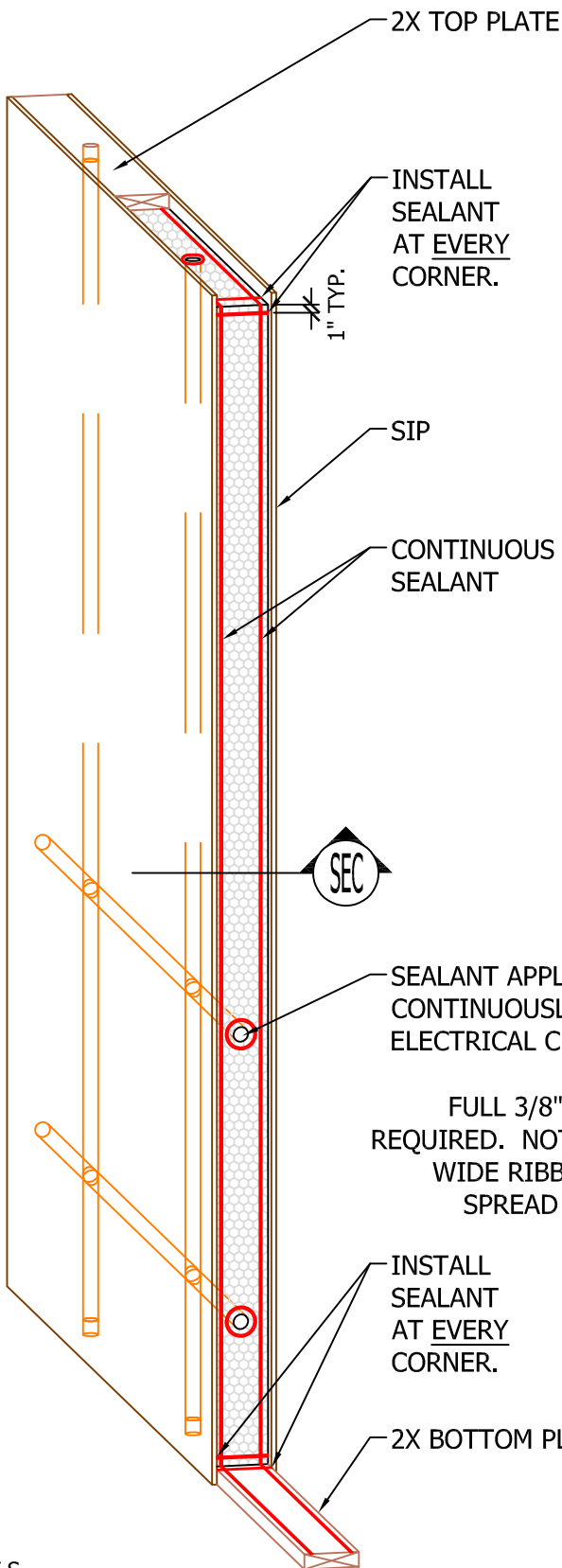
\* SIP THICKNESSES ARE NOMINAL INCHES

Rev: 12/10/2021

EPT - 102

SIP THICKNESS AND R-VALUE

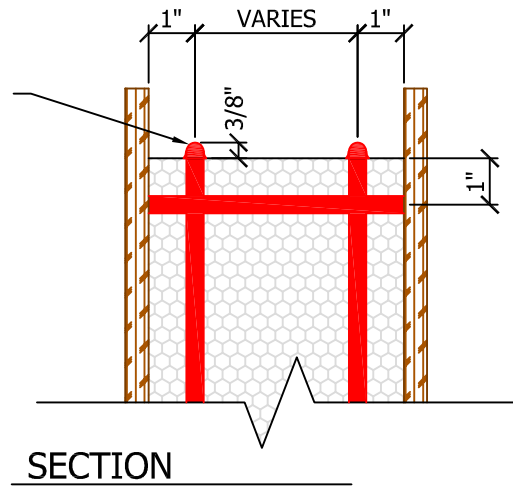




**NOTES:**

1. IT IS CRITICAL SIPs ARE SEALED FOLLOWING DETAILS TO PREVENT POTENTIAL MOISTURE DAMAGE.
2. MAKE CERTAIN SURFACES ARE CLEAN, DRY, AND FREE OF DIRT AND FOREIGN MATERIALS PRIOR TO PLACEMENT OF SEALANT.
3. ALWAYS APPLY 3/8" DIAMETER CONTINUOUS BEAD
4. ALWAYS APPLY SEALANT IN A STRAIGHT LINE OFFSET 1" FROM FACE OF OSB.
5. STORE SEALANT IN A WARM AREA PRIOR TO INSTALLATION DURING COLD WEATHER.
6. REFER TO SEALANT SAFETY DATA SHEETS.
7. ONE 20 OUNCE TUBE OF SEALANT APPLIED AT A 3/8"  $\phi$  BEAD WILL YIELD 27 LINEAL FEET. PERIODICALLY CHECK YOUR APPLICATION TO ENSURE THAT YOU ARE APPLYING SEALANT AT THE CORRECT RATE.
8. AFTER SIP SHOP DRAWINGS ARE COMPLETE WE WILL INCLUDE ENOUGH SEALANT TO APPLY (2) 3/8" BEADS AROUND THE ENTIRE FABRICATED SIP PERIMETER INCLUDING OPENINGS. IF YOU REQUIRE ADJUSTMENT TO THE SEALANT PROVIDED BE SURE TO NOTIFY EXTREME PANEL PRIOR TO SIGNING A CONTRACT OF SALE.
9. FAILURE TO FOLLOW SEALANT APPLICATION INSTRUCTIONS WILL VOID WARRANTY. IT IS CRITICAL THAT SIPs ARE SEALED CORRECTLY TO PREVENT MOISTURE FROM CONDENSING INSIDE THE SIPs. ADEQUATE AIR EXCHANGE EQUIPMENT WILL SIGNIFICANTLY REDUCE THIS RISK, CHECK WITH A MECHANICAL ENGINEER FOR SPECIFIC REQUIREMENTS FOR YOUR STRUCTURE.

FULL 3/8"  $\phi$  BEAD SEALANT IS REQUIRED. NOT A FLATTENED 3/8" WIDE RIBBON. SEALANT WILL SPREAD DURING ASSEMBLY.



N.T.S.

Rev: 1/18/2023

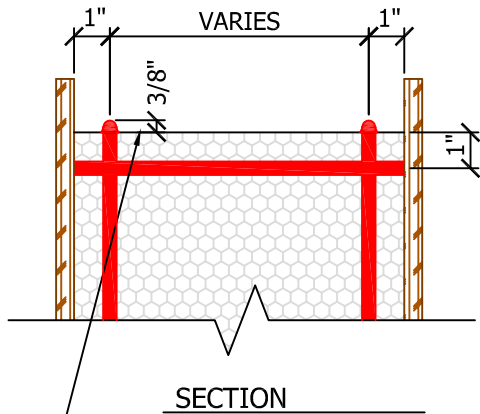
EPT -103

**SIP SEALANT APPLICATION WALLS**



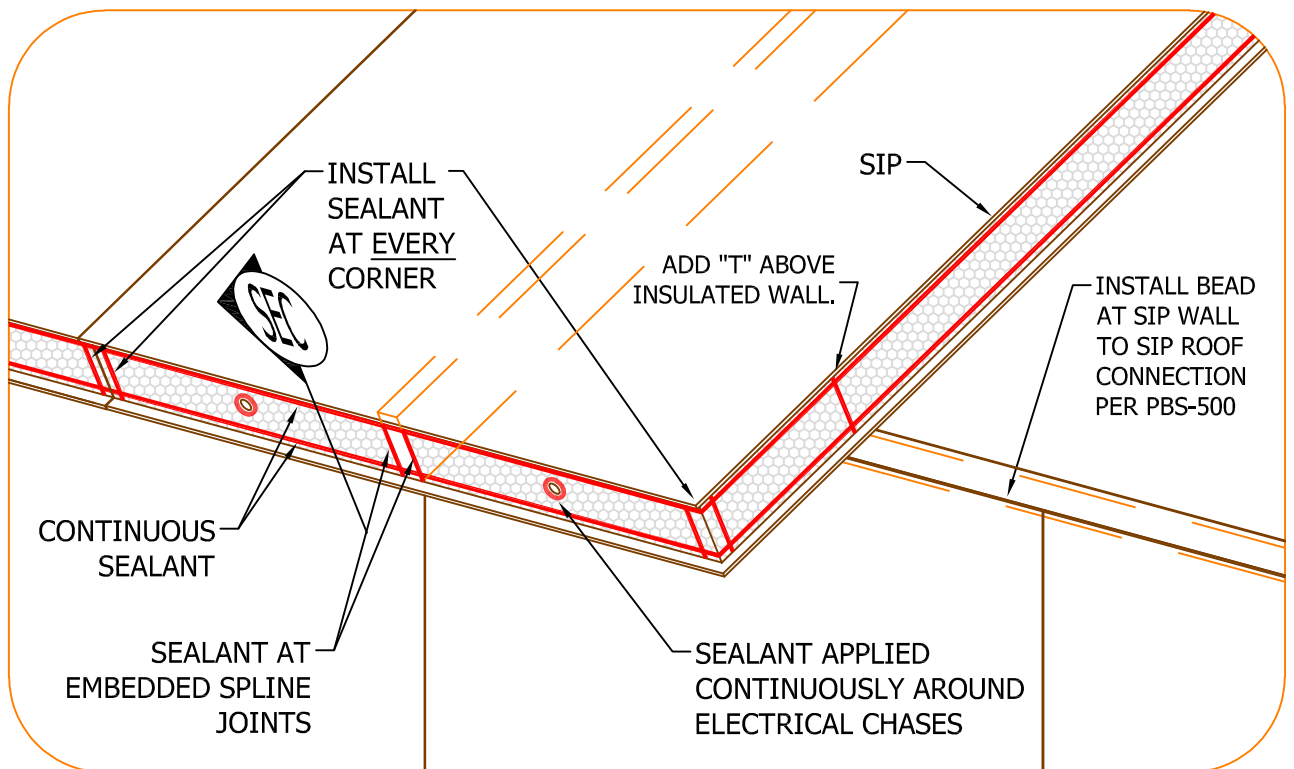


## NOTES:



FULL 3/8"  $\phi$  BEAD SEALANT IS REQUIRED. NOT A FLATTENED 3/8" WIDE RIBBON. SEALANT WILL SPREAD DURING ASSEMBLY.

1. IT IS CRITICAL SIPs ARE SEALED FOLLOWING DETAILS TO PREVENT POTENTIAL MOISTURE DAMAGE.
2. MAKE CERTAIN SURFACES ARE CLEAN, DRY, AND FREE OF DIRT AND FOREIGN MATERIALS PRIOR TO PLACEMENT OF SEALANT.
3. ALWAYS APPLY 3/8" DIAMETER CONTINUOUS BEAD.
4. ALWAYS APPLY SEALANT IN A STRAIGHT LINE OFFSET 1" FROM FACE OF OSB.
5. STORE SEALANT IN A WARM AREA PRIOR TO INSTALLATION DURING COLD WEATHER.
6. REFER TO SEALANT SAFETY DATA SHEETS.
7. ONE 20 OUNCE TUBE OF SEALANT APPLIED AT A 3/8"  $\phi$  BEAD WILL YIELD 27 LINEAL FEET. PERIODICALLY CHECK YOUR APPLICATION TO ENSURE THAT YOU ARE APPLYING SEALANT AT THE CORRECT RATE.
8. AFTER SIP SHOP DRAWINGS ARE COMPLETE WE WILL INCLUDE ENOUGH SEALANT TO APPLY (2) 3/8" BEADS AROUND THE ENTIRE FABRICATED SIP PERIMETER INCLUDING OPENINGS. IF YOU REQUIRE ADJUSTMENT TO THE SEALANT PROVIDED BE SURE TO NOTIFY EXTREME PANEL PRIOR TO SIGNING A CONTRACT OF SALE.
9. FAILURE TO FOLLOW SEALANT APPLICATION INSTRUCTIONS WILL VOID WARRANTY. IT IS CRITICAL THAT SIPs ARE SEALED CORRECTLY TO PREVENT MOISTURE FROM CONDENSING INSIDE THE SIPs. ADEQUATE AIR EXCHANGE EQUIPMENT WILL SIGNIFICANTLY REDUCE THIS RISK, CHECK WITH A MECHANICAL ENGINEER FOR SPECIFIC REQUIREMENTS FOR YOUR STRUCTURE.



N.T.S.

Rev: 2/15/2023

EPT-104

SIP SEALANT APPLICATION  
ROOF

  
**EXTREME PANEL**  
TECHNOLOGIES

NOTES:

*SURFACE PREPARATION*

ALL SURFACES MUST BE CLEAN, DRY AND FREE OF DUST, DIRT, GREASE, OIL, AND ANY OTHER CONTAMINANTS THAT MAY INTERFERE WITH ADHESION. SURFACE TEMPERATURE OF THE SIP TAPE BEING APPLIED MUST BE 20° F OR WARMER.

*TAPE INSTALLATION*

POSITION SIP TAPE SO THAT IT IS CENTERED OVER SIP JOINT. WHILE UNROLLING SIP TAPE ALONG CENTER LINE OF SIP JOINT, REMOVE RELEASE FILM AT A 45° ANGLE AND CONTINUE TO PRESS SIP TAPE INTO PLACE. TO ENSURE A TIGHT SEAL AND MINIMIZE AIR BUBBLES AND WRINKLES, SIP TAPE MUST BE PRESSED FIRMLY BY HAND AT THE CENTER, WORKING OUTWARD WITH A SMOOTHING MOTION TO THE EDGES. A ROLLER OR SIMILAR TOOL MUST THEN BE USED TO ROLL OVER THE ENTIRE SIP TAPE SURFACE TO FIRMLY MATE TO SIP SURFACE.

*OVERLAPS AND "T" JOINTS*

TAPE FOR SIP TO SIP CORNERS AND SIP JOINTS OVER BEAMS SHOULD BE INSTALLED BEFORE IN PLANE SIP JOINTS. OVERLAP TAPE A MINIMUM OF 3" AT "T" JOINTS AND WHEN CONTINUING A SEAM TO INSURE AN AIRTIGHT SEAL.

NOTE: SIP TAPE IS TYPICALLY NOT PROVIDED FOR SIP FLOOR SPLINE OR SIP FLOOR TO SIP WALL CONNECTIONS. HOWEVER, IF GYPCRETE IS TO BE APPLIED TO TOP OF SIP FLOOR WE DO RECOMMEND THE APPLICATION OF 4" SIP TAPE AT ALL JOINTS. PLEASE CONTACT EXTREME PANEL TO REQUEST THE ADDITION OF SIP TAPE IF DESIRED.

REFERENCE ACCOMPANYING APPLICATION SEQUENCE DETAIL FOR ADDITIONAL INSTRUCTIONS.

N.T.S.

Rev: 3/31/2022

EPT -105

SIP TAPE APPLICATION NOTES



**NOTE:**

PRIOR TO ANY INTERIOR SIP TAPE APPLICATION, ALL EXTERIOR ROOF AND WALL SURFACES MUST HAVE WEATHER RESISTANT BARRIERS APPLIED TO ROOF AND WALLS. SIP TAPE SHALL BE INSTALLED EITHER INTERIOR OR EXTERIOR BASED ON CODE REQUIREMENTS AND LOCAL CLIMATE CONDITIONS. CONSULT WITH A BUILDING SCIENCE PROFESSIONAL TO DETERMINE THE LOCATION OF SIP TAPE APPLICATION ON YOUR STRUCTURE. REFER TO EPT-105B FOR EXTERIOR APPLICATION.

**TAPE APPLICATION SEQUENCE:**

**1. APPLY TAPE TO JOINTS OVER BEAMS**

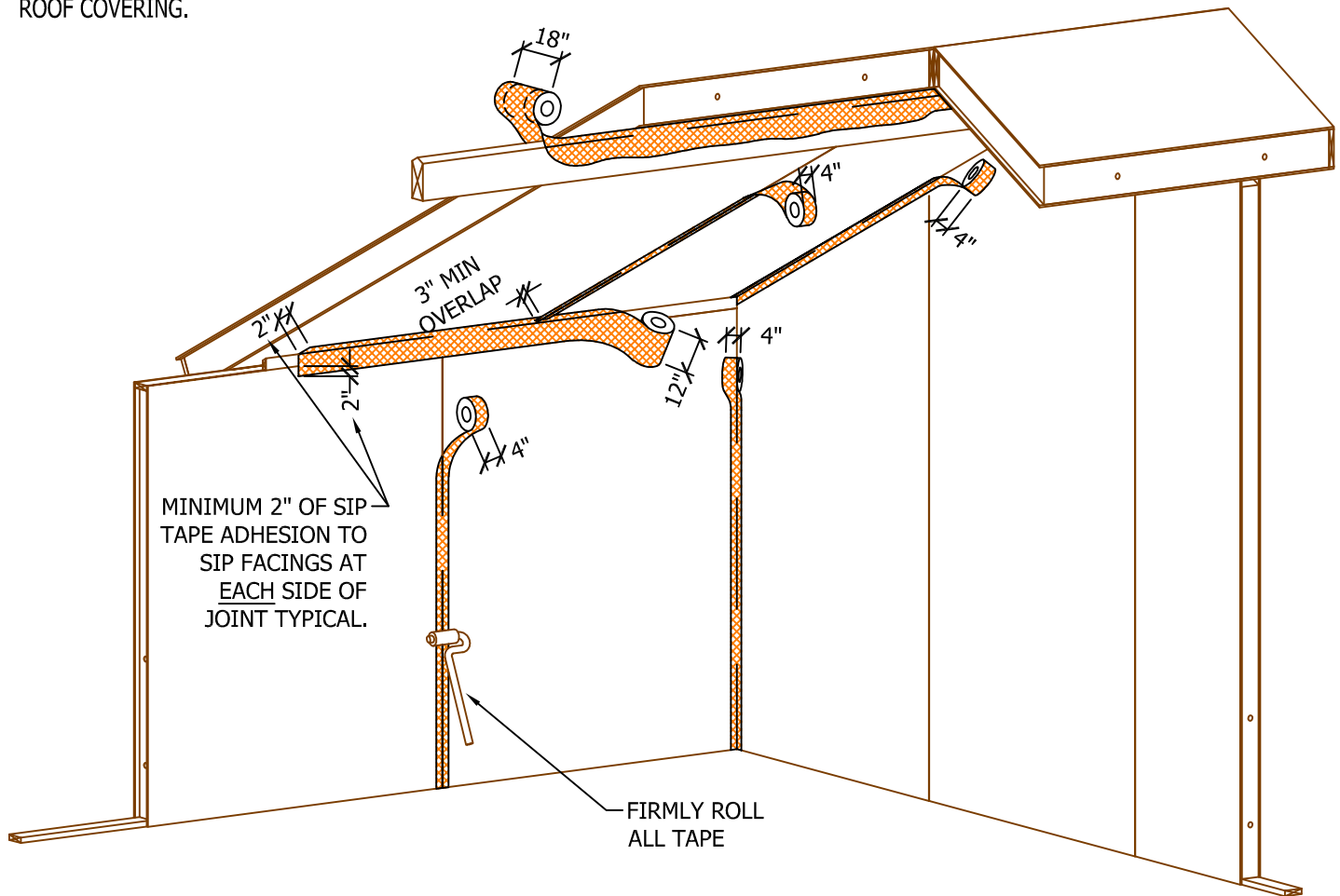
ROLL OUT TAPE CENTERED OVER BEAM PRIOR TO SIP INSTALLATION AND SECURE TEMPORARILY WITH STAPLES. AFTER SIPS ARE INSTALLED AND SECURED OVER TAPE, REMOVE BACKING, PRESS FIRMLY INTO PLACE, AND FIRMLY ROLL.

**2. INSTALL SIPS**

IF RAIN IS OCCURRING AT TIME OF SIP ROOF INSTALLATION RUN A BEAD OF SEALANT AT EXTERIOR SIP JOINT TO PREVENT MOISTURE PENETRATION INTO SPLINE JOINT. IF YOU BELIEVE RAIN WILL BE LIKELY DURING INSTALLATION CONTACT YOUR SIP REPRESENTATIVE TO PURCHASE ADDITIONAL SEALANT.

**3. APPLY SIP TAPE TO WALLS AND ROOF SIPS**

DO NOT APPLY SIP TAPE ON THE UNDERSIDE OF ROOF SIPS PRIOR TO THE INSTALLATION OF ROOFING UNDERLAYMENT AND ROOF COVERING.



N.T.S.

Rev: 12/10/2021

EPT-105A

SIP TAPE APPLICATION  
INTERIOR



**NOTE:**

SIP TAPE SHALL BE INSTALLED EITHER INTERIOR OR EXTERIOR BASED ON CODE REQUIREMENTS AND LOCAL CLIMATE CONDITIONS. CONSULT WITH A BUILDING SCIENCE PROFESSIONAL TO DETERMINE THE LOCATION OF SIP TAPE APPLICATION ON YOUR STRUCTURE. REFER TO EPT-105A FOR INTERIOR APPLICATION.

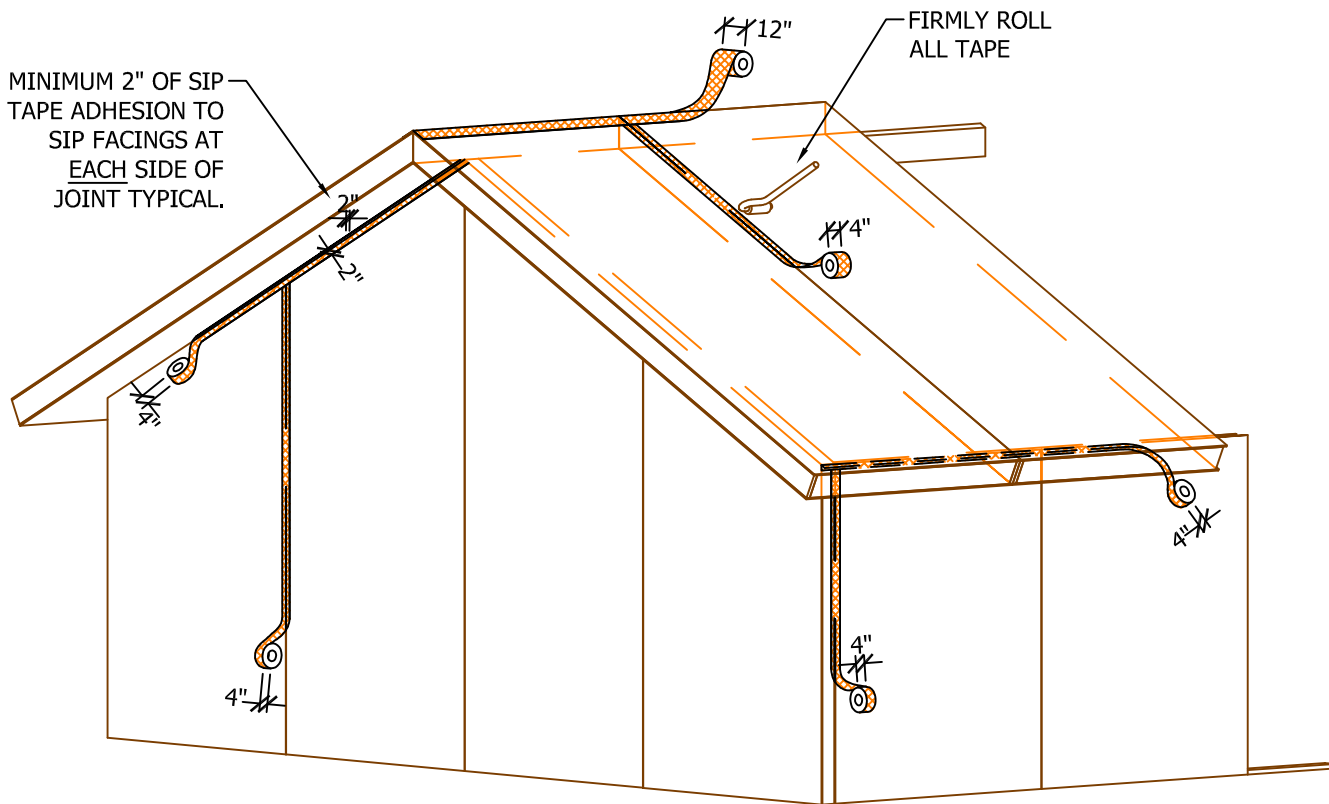
**TAPE APPLICATION SEQUENCE:**

**1. INSTALL SIPS**

IF RAIN IS OCCURRING AT TIME OF SIP ROOF INSTALLATION RUN A BEAD OF SEALANT AT EXTERIOR SIP JOINT TO PREVENT MOISTURE PENETRATION INTO SPLINE JOINT. IF YOU BELIEVE RAIN WILL BE LIKELY DURING INSTALLATION CONTACT YOUR SIP REPRESENTATIVE TO PURCHASE ADDITIONAL SEALANT.

**2. APPLY SIP TAPE TO WALLS AND ROOF SIPS**

INSTALL TAPE FROM THE TOP TO THE BOTTOM OF THE SIP JOINTS BEGINNING WITH THE WALL CONNECTIONS, FOLLOWED BY WALL TO ROOF CONNECTIONS, AND THE ROOF JOINT SIP TAPE TO BE APPLIED LAST.



N.T.S.

Rev: 12/10/2021

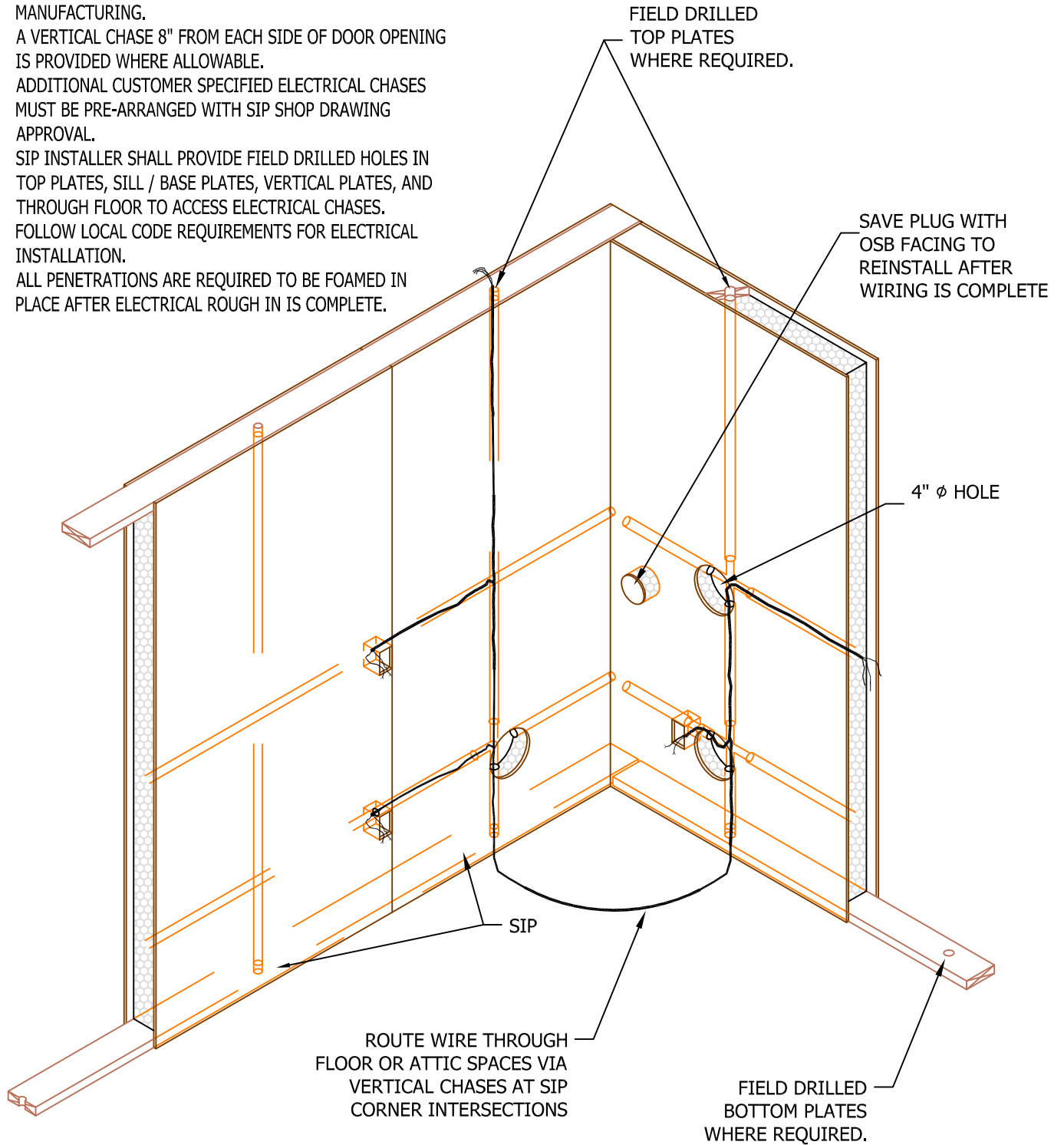
**EPT -105B**

**SIP TAPE APPLICATION  
EXTERIOR**



**NOTES:**

1. STANDARD HORIZONTAL ELECTRICAL CHASES ARE PROVIDED AT 17-1/2" AND 44" FROM BOTTOM OF SIP AND ROUGHLY 48" O.C. VERTICALLY UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE BEFORE SIP MANUFACTURING.
2. A VERTICAL CHASE 8" FROM EACH SIDE OF DOOR OPENING IS PROVIDED WHERE ALLOWABLE.
3. ADDITIONAL CUSTOMER SPECIFIED ELECTRICAL CHASES MUST BE PRE-ARRANGED WITH SIP SHOP DRAWING APPROVAL.
4. SIP INSTALLER SHALL PROVIDE FIELD DRILLED HOLES IN TOP PLATES, SILL / BASE PLATES, VERTICAL PLATES, AND THROUGH FLOOR TO ACCESS ELECTRICAL CHASES.
5. FOLLOW LOCAL CODE REQUIREMENTS FOR ELECTRICAL INSTALLATION.
6. ALL PENETRATIONS ARE REQUIRED TO BE FOAMED IN PLACE AFTER ELECTRICAL ROUGH IN IS COMPLETE.



N.T.S.

Rev: 12/10/2021

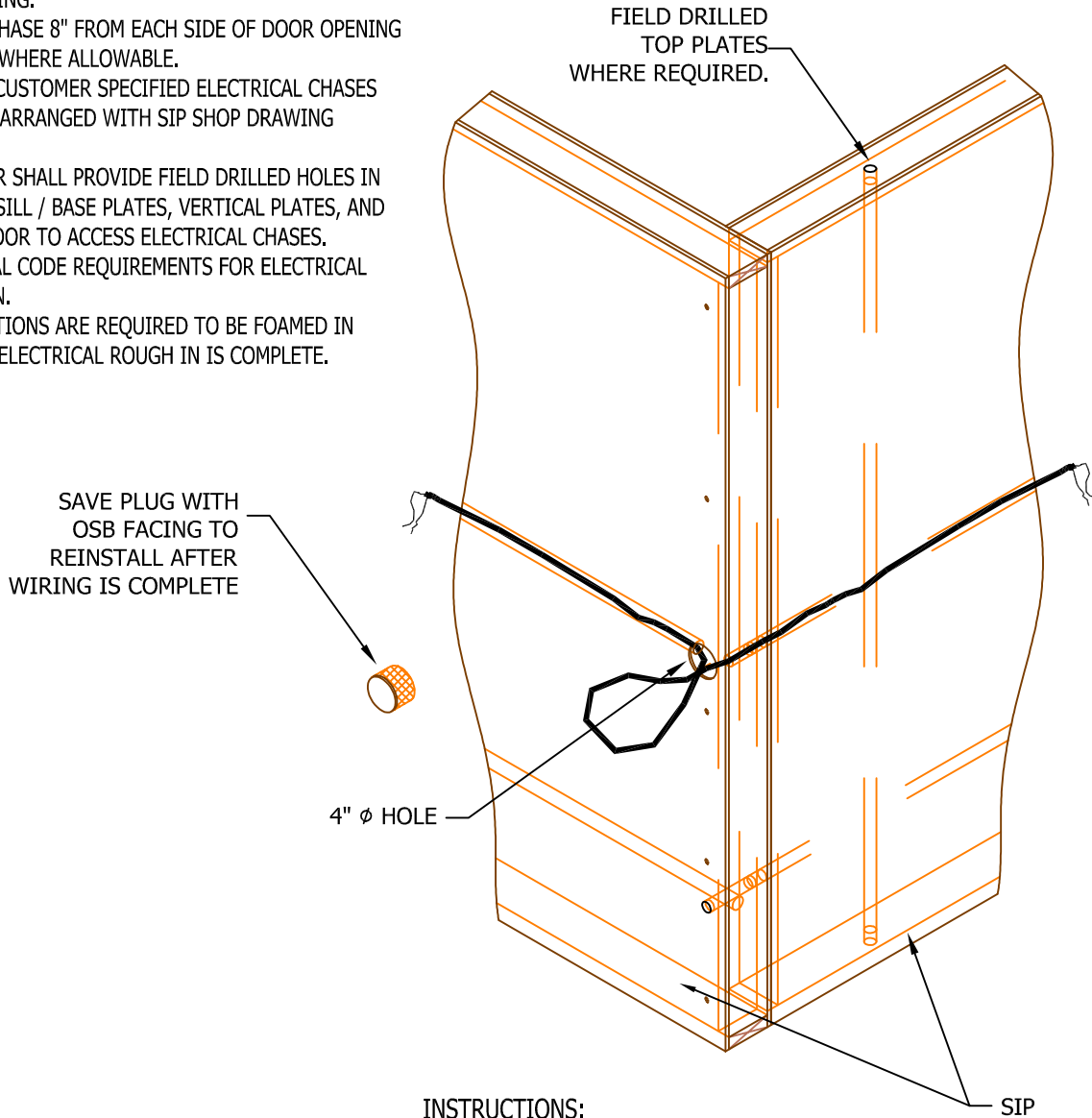
EPT-106

# WALL ELECTRICAL CHASES CORNER ROUTED THROUGH FLOOR



**NOTES:**

1. STANDARD HORIZONTAL ELECTRICAL CHASES ARE PROVIDED AT 14" AND 42" FROM BOTTOM OF SIP AND ROUGHLY 48" O.C. VERTICALLY UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE BEFORE SIP MANUFACTURING.
2. A VERTICAL CHASE 8" FROM EACH SIDE OF DOOR OPENING IS PROVIDED WHERE ALLOWABLE.
3. ADDITIONAL CUSTOMER SPECIFIED ELECTRICAL CHASES MUST BE PRE-ARRANGED WITH SIP SHOP DRAWING APPROVAL.
4. SIP INSTALLER SHALL PROVIDE FIELD DRILLED HOLES IN TOP PLATES, SILL / BASE PLATES, VERTICAL PLATES, AND THROUGH FLOOR TO ACCESS ELECTRICAL CHASES.
5. FOLLOW LOCAL CODE REQUIREMENTS FOR ELECTRICAL INSTALLATION.
6. ALL PENETRATIONS ARE REQUIRED TO BE FOAMED IN PLACE AFTER ELECTRICAL ROUGH IN IS COMPLETE.



**INSTRUCTIONS:**

1. CUT HOLE IN CORNER WITH HOLE SAW TO ACCESS CHASES AT INTERSECTION.
2. PUSH WIRE TO CORNER HOLE.
3. PULL THE REQUIRED AMOUNT OF WIRE THROUGH THE CREATED CORNER HOLE.
4. PUSH THE WIRE THROUGH ADJACENT HOLE TO NEXT NEEDED INTERSECTION OR BOX.

N.T.S.

Rev: 12/10/2021

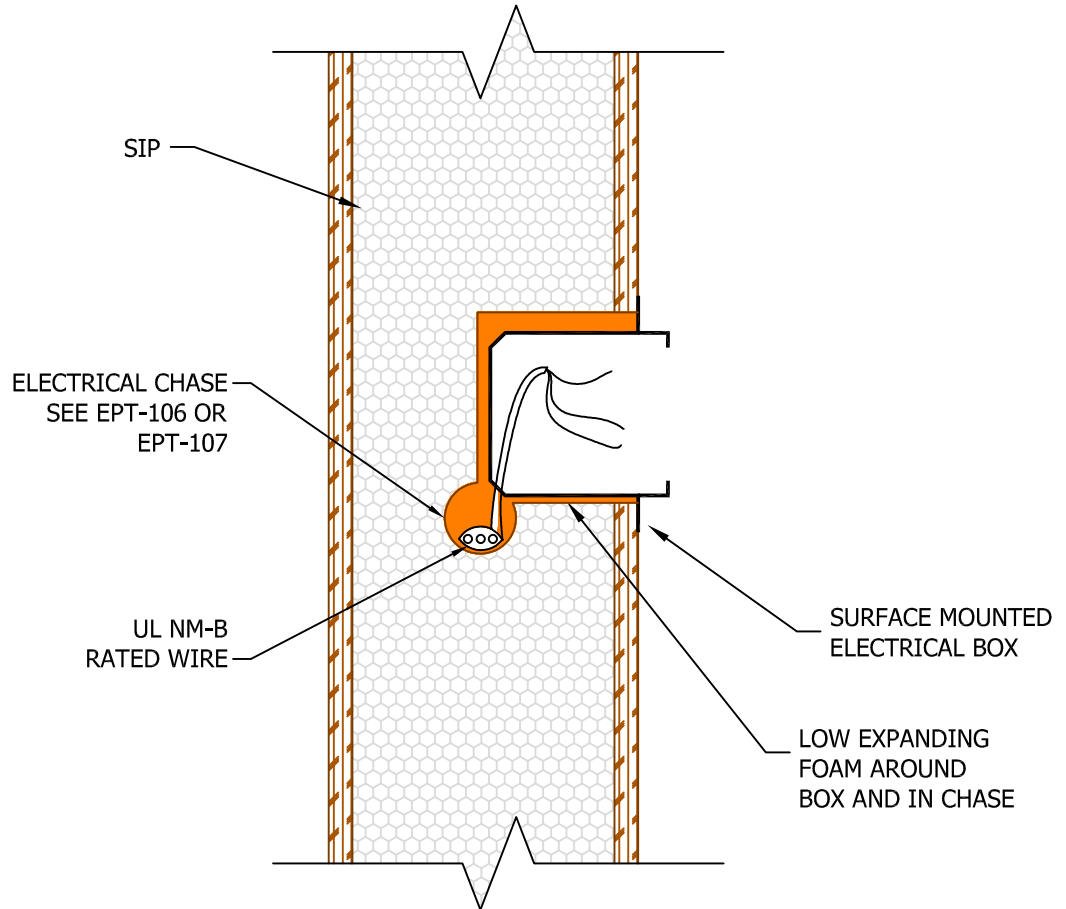
EPT-107

**WALL ELECTRICAL CHASES  
CORNER ROUTED THROUGH EXTERIOR**



**NOTES:**

1. USE OF LOW EXPANDING FOAM AFTER ELECTRICAL INSTALLATION IS CRITICAL FOR AIR SEALING



N.T.S.

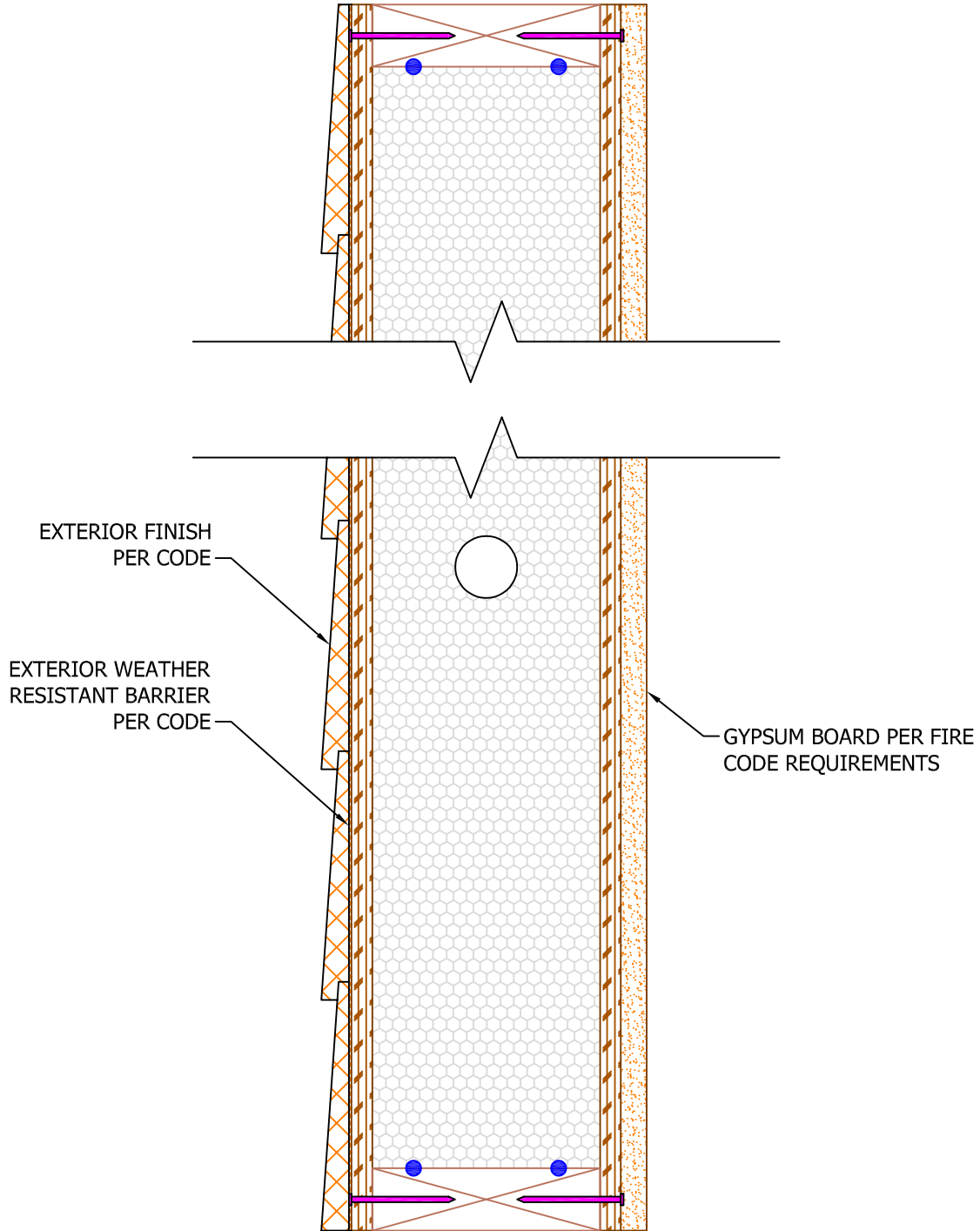
Rev: 12/10/2021

**EPT -108**

**ELECTRICAL BOXES**

**NOTES:**

- 1. USE IN CONJUNCTION WITH PBS-400



N.T.S.

Rev: 12/10/2021

EPT - 109

SIP WALL FINISHES



FOR TYPICAL CABINET LOADINGS FASTEN CABINET TO SIPs FOLLOWING CABINET MANUFACTURER'S RECOMMENDATIONS. FOR EXTREME CABINET LOADS CONSULT AN ENGINEER.

PLUMBING VENT THROUGH ROOF PER CODE.

FASTEN INTERIOR WALL TO SIP WITH #8 WOOD SCREWS @ 8" O.C. STAGGERED. ALTERNATE: USE SIP SCREWS FASTENED FROM EXTERIOR AND PROVIDE EPT WITH QUANTITY OF SCREWS TO ADD TO YOUR ORDER PRIOR TO SIGNING A CONTRACT OF SALE.

DRILL THROUGH SIP TO ACCESS SIP ELECTRICAL CHASES IF NEEDED. SEE EPT-106

SIP WALL

INTERIOR STICK FRAMED WALL.

DRAIN

LOCATE 90° AS HIGH AS POSSIBLE (INSIDE CABINET).

NO FIXTURES UPSTREAM OF DRAIN, ONLY CLEAN OUT.

SHADED PLUMBING DENOTES TYPICAL ISLAND VENT PLUMBING RUN BELOW FLOOR AND THEN THROUGH INTERIOR WALL OR VOID IN SIP WALL PER EPT-112. (NO PLUMBING RUN THROUGH SIP WALL)

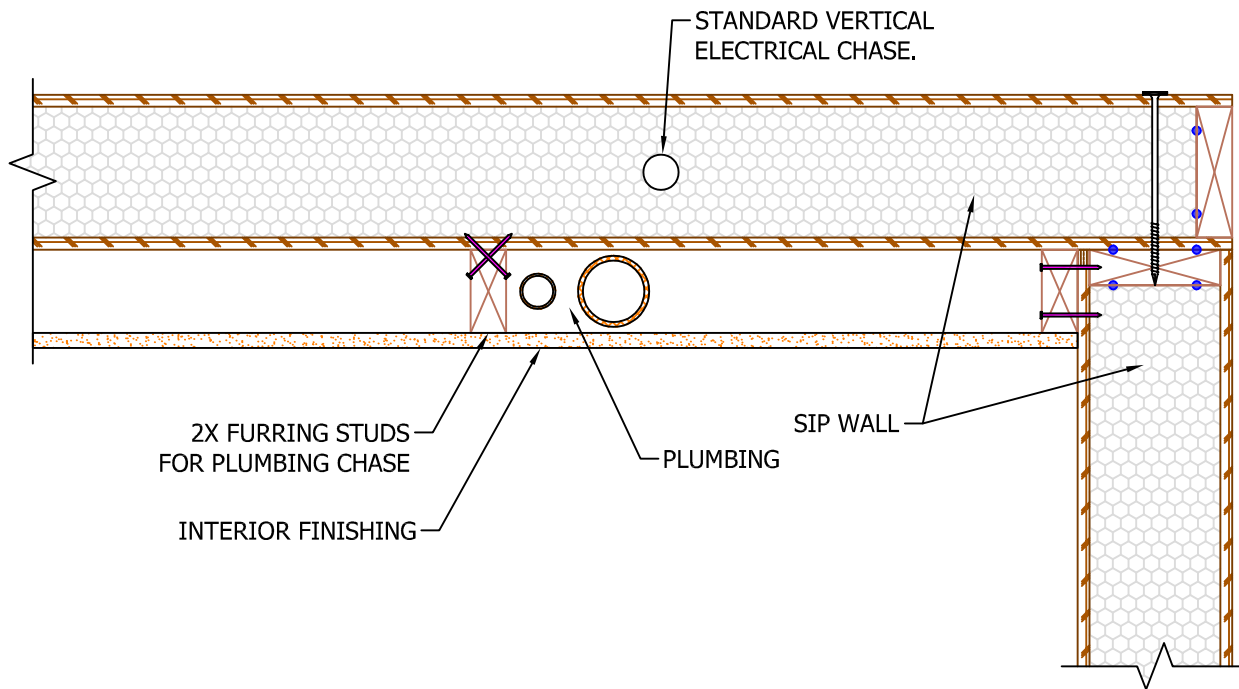
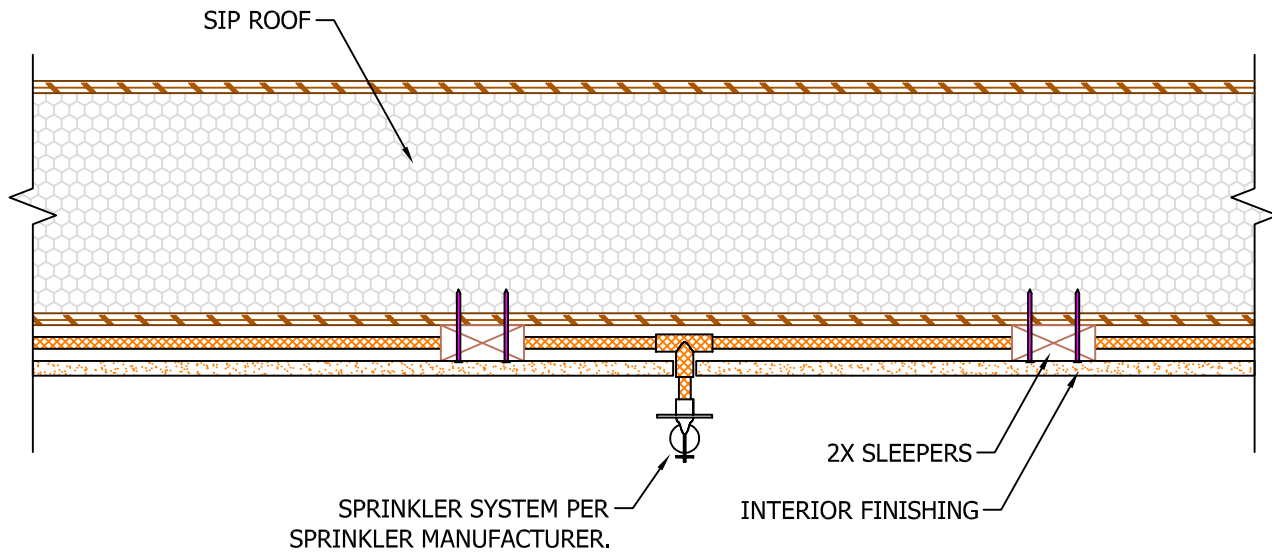
N.T.S.

Rev: 12/10/2021

EPT-110

SIP WALL INTERIOR DETAILS

**NOTE:**  
FASTENER / ADHESIVE ATTACHMENT OF 2X'S AND SPRINKLER SYSTEM TO BE SPECIFIED BY AN ENGINEER.



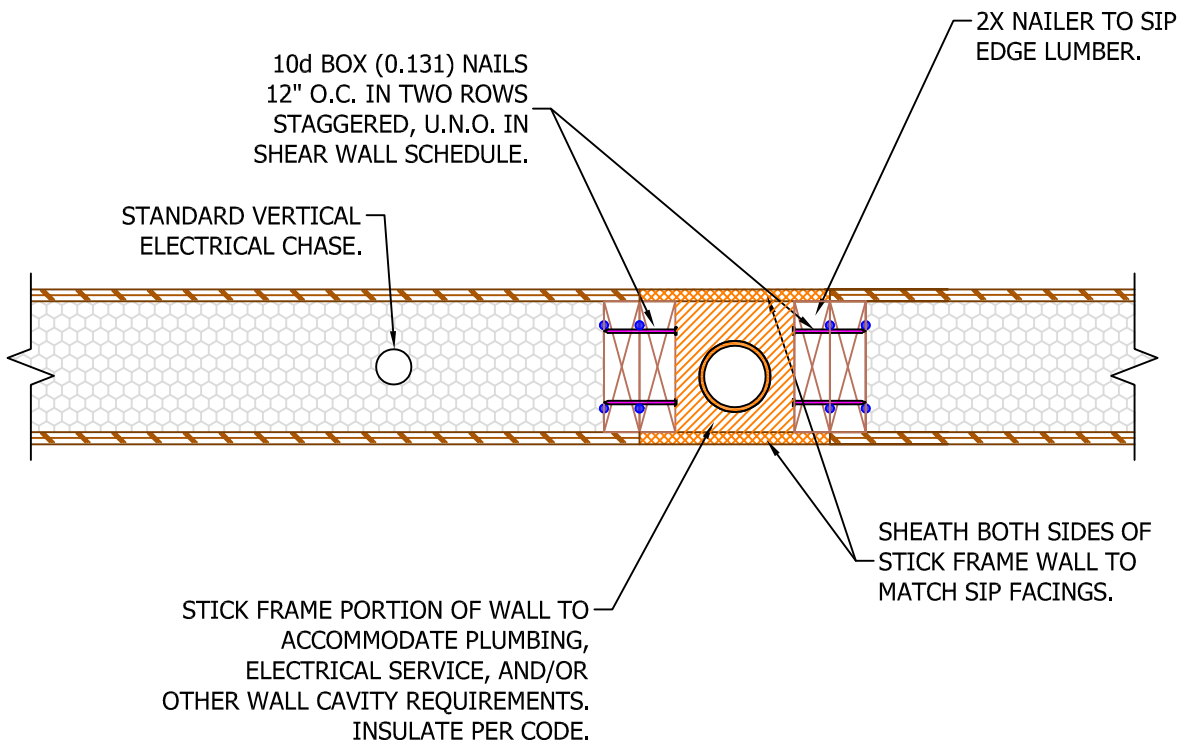
N.T.S.

Rev: 12/10/2021

EPT-111

SIP FURRING





N.T.S.

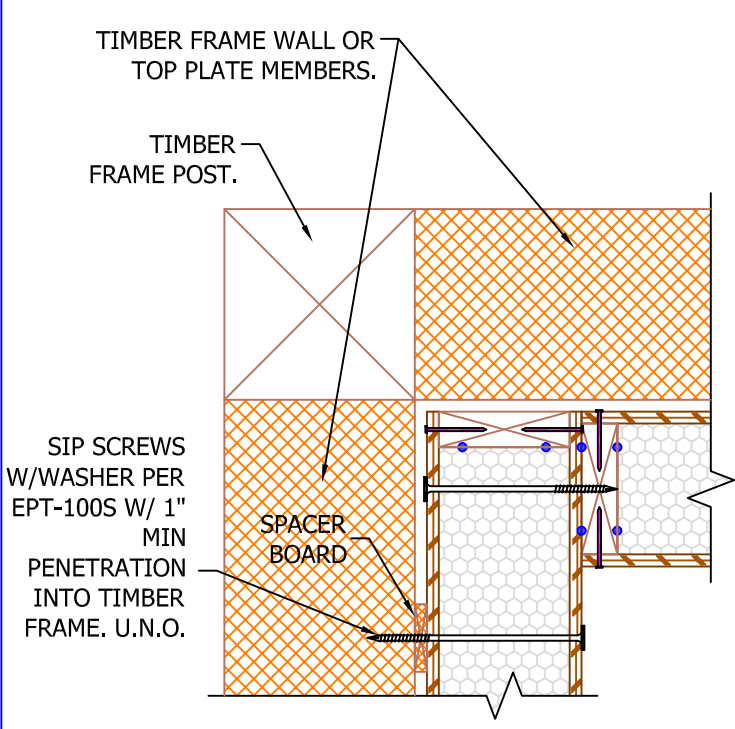
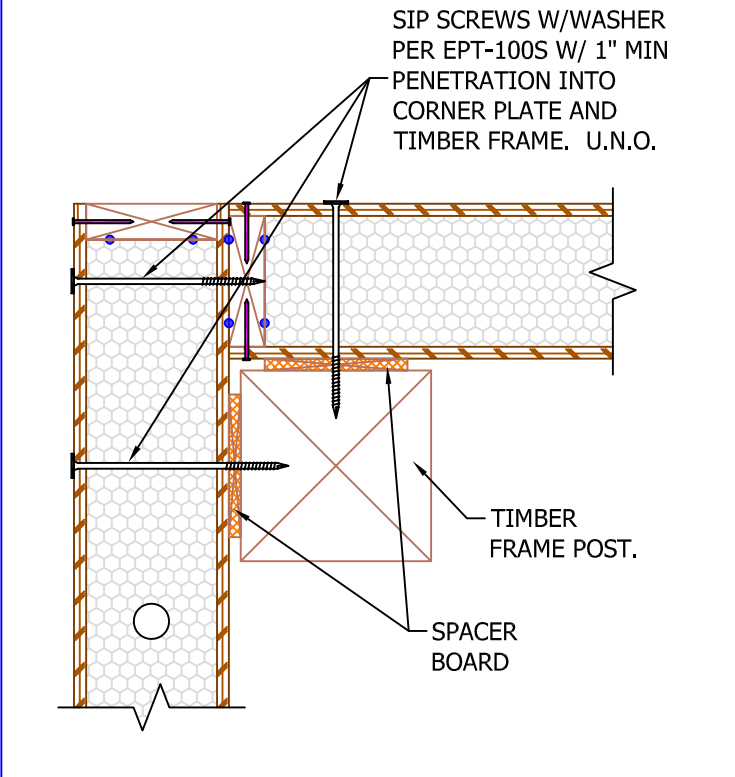
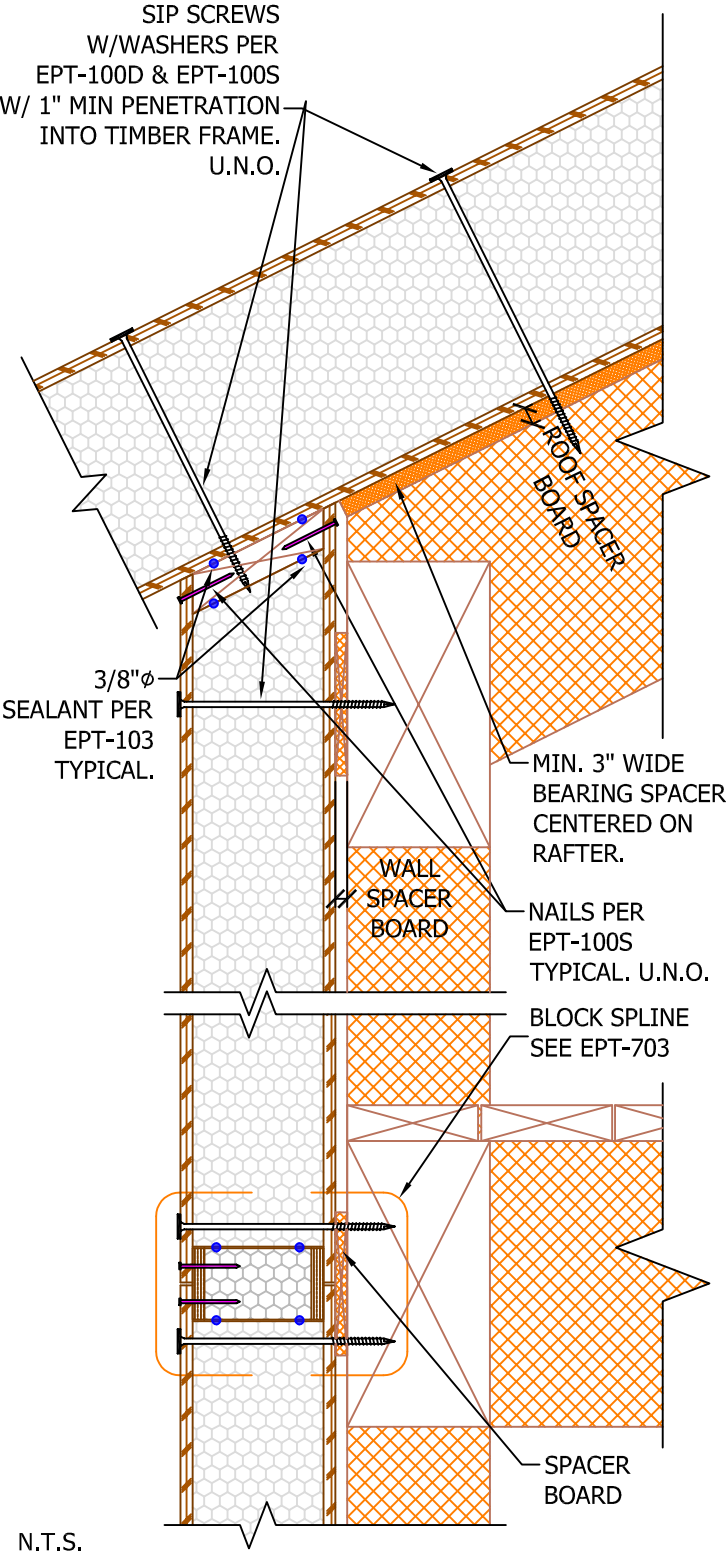
Rev: 12/10/2021

EPT-112

VOID IN SIP WALL

**NOTES:**

1. SIP TAPE MAY BE IMPOSSIBLE TO APPLY IN TIMBER FRAME APPLICATIONS. CONSULT A BUILDING DESIGN PROFESSIONAL FOR SPECIFICATION OF AN ALTERNATE VAPOR BARRIER.
2. A SPACER BOARD MATCHING DEPTH OF INTERIOR FINISH MAY BE USED BETWEEN TIMBER FRAME AND SIP SO THAT FINISH CAN BE TUCKED IN BETWEEN FRAME AND SIP FACING.



Rev: 9/19/2022

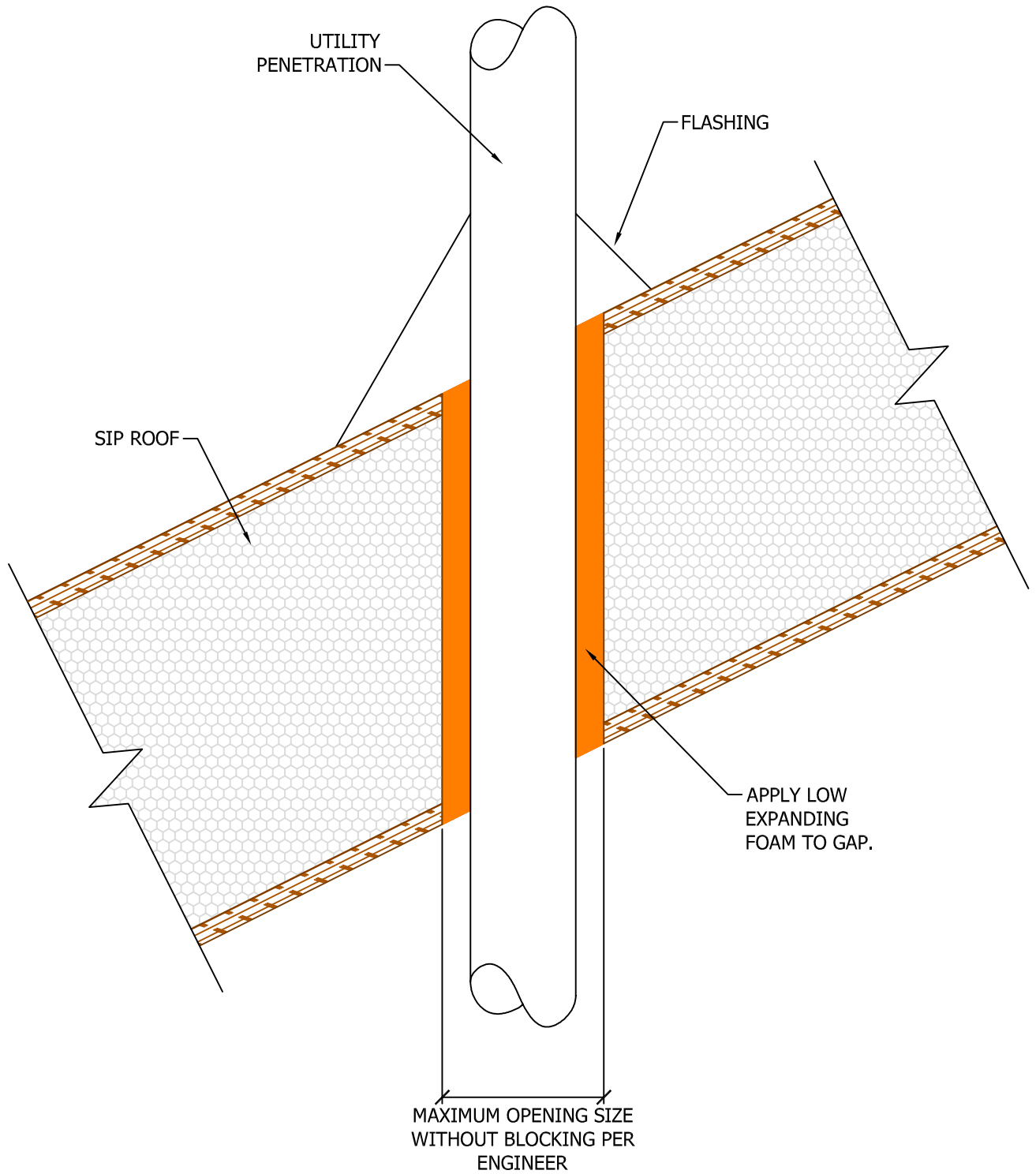
EPT-113

SIP TO TIMBER FRAME DETAILS



**NOTE:**

PROTECT SIP CORE FROM TEMPERATURES OF 160°F OR ABOVE. USE ZERO CLEARANCE INSULATING MATERIAL DESIGNED FOR HIGH TEMPS AS REQUIRED.



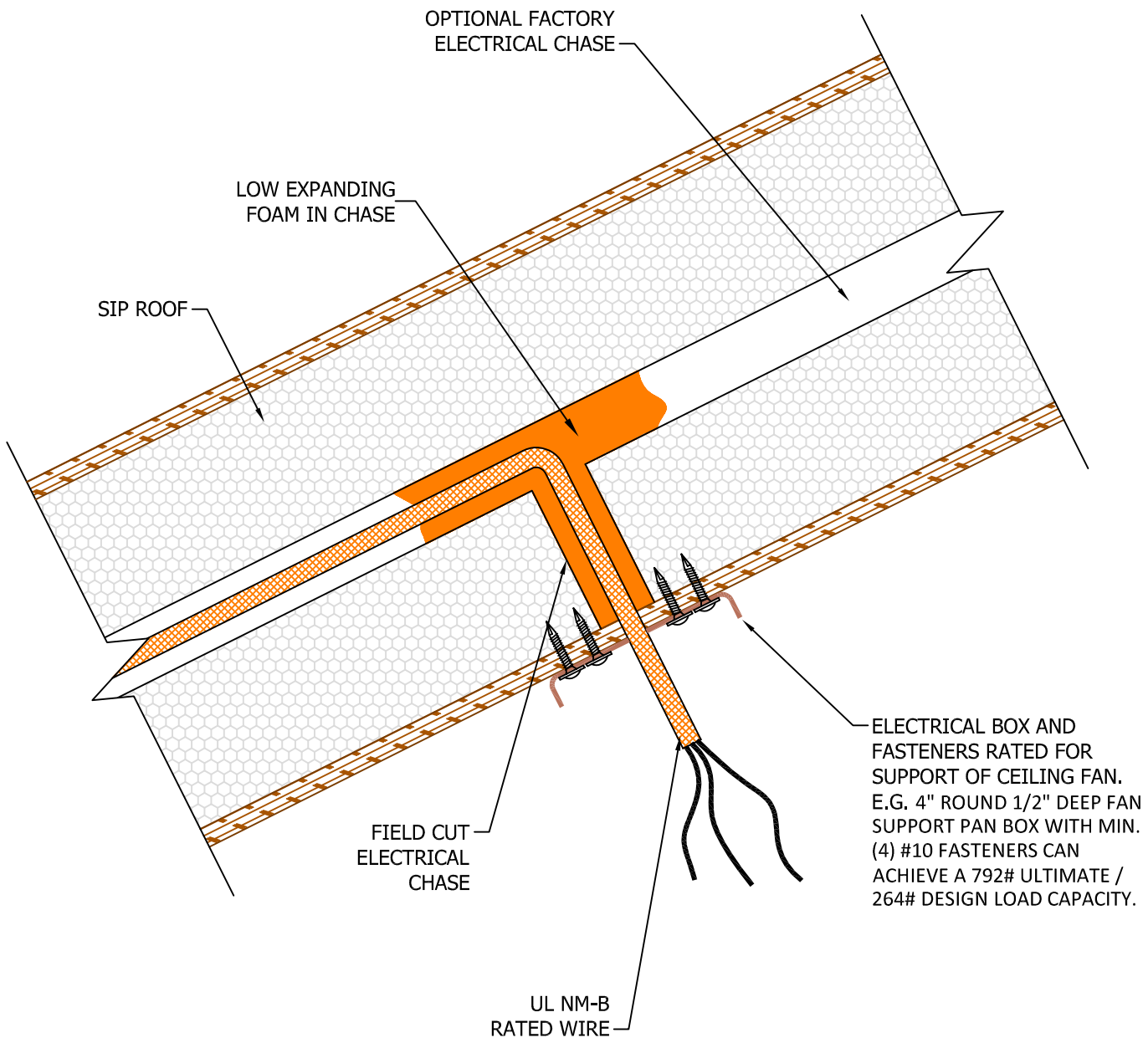
N.T.S.

Rev: 9/19/2022

EPT -114

SIP ROOF PENETRATIONS





N.T.S.

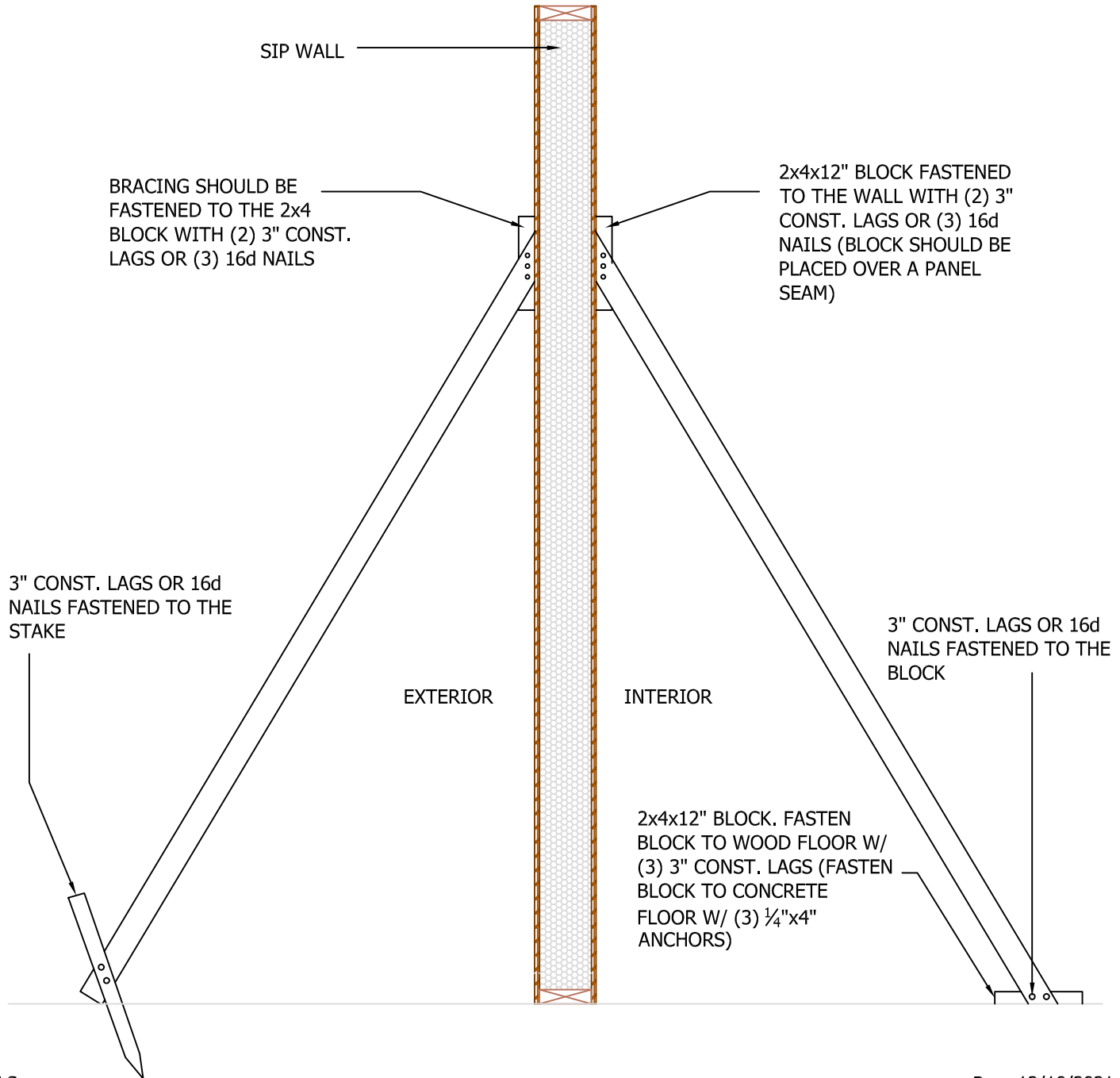
Rev: 12/10/2021

EPT - 115

CEILING FAN ATTACHMENT



1. RECOMMENDED BRACING SHOULD BE PLACED EVERY 12'-0".
2. RECOMMENDED BRACE THICKNESS:
  - \* 8'-0" TO 10'-0" PANEL - 2x4
  - \* 12'-0" TO 16'-0" PANEL - 2x6
3. KEEP THE TOP 2x4x12" BLOCK WITHIN 2'-0" FROM THE TOP OF THE PANEL.
4. RECOMMENDED BRACE LENGTH SHOULD BE  $\frac{2}{3}$  THE HEIGHT OF THE PANEL.
5. THE BRACING INSIDE AND OUTSIDE SHOULD BE LEFT ASSEMBLED UNTIL THE ROOF IS IN PLACE AND PROPERLY FASTENED.



N.T.S.

Rev: 12/10/2021

EPT-117

WALL BRACING





# 200 Series: Spline Details

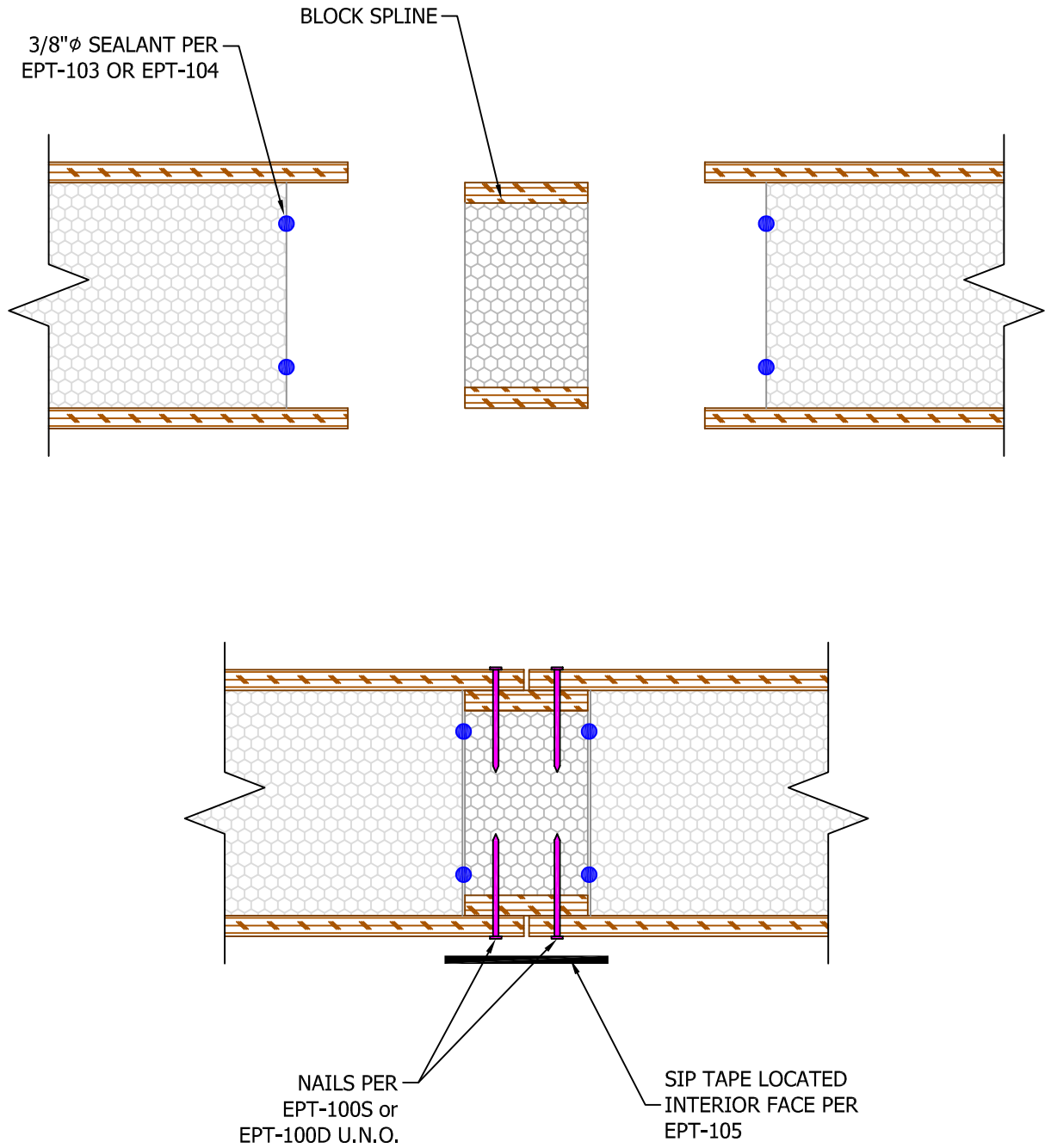


**EXTREME PANEL**  
**TECHNOLOGIES**



**NOTE:**

BLOCK SPLINES ARE NOT REQUIRED TO BE CONTINUOUS ALONG TOTAL LENGTH OF SPLINE CONNECTION. CUT BLOCK SPLINES AS NEEDED TO COMPLETE CONNECTION.



N.T.S.

Rev: 2/16/2023

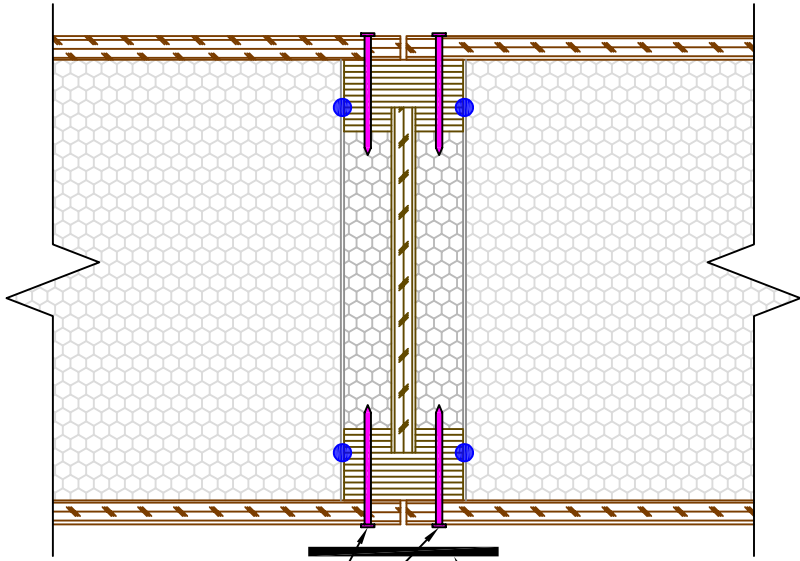
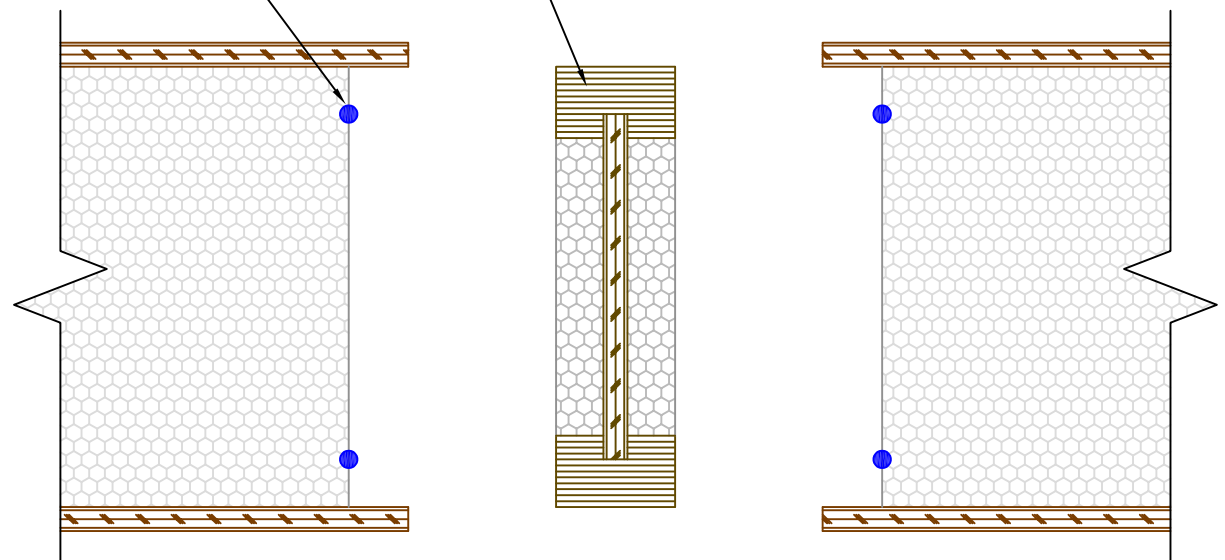
EPT - 200

TYPE S (BOX/BLOCK) SPLINE



3/8"φ SEALANT PER  
EPT-104

CONTINUOUS I-JOIST  
SPLINE SUPPLIED BY  
SIP MANUFACTURER



NAILS PER  
EPT-100D U.N.O.

SIP TAPE LOCATED  
INTERIOR FACE PER  
EPT-105

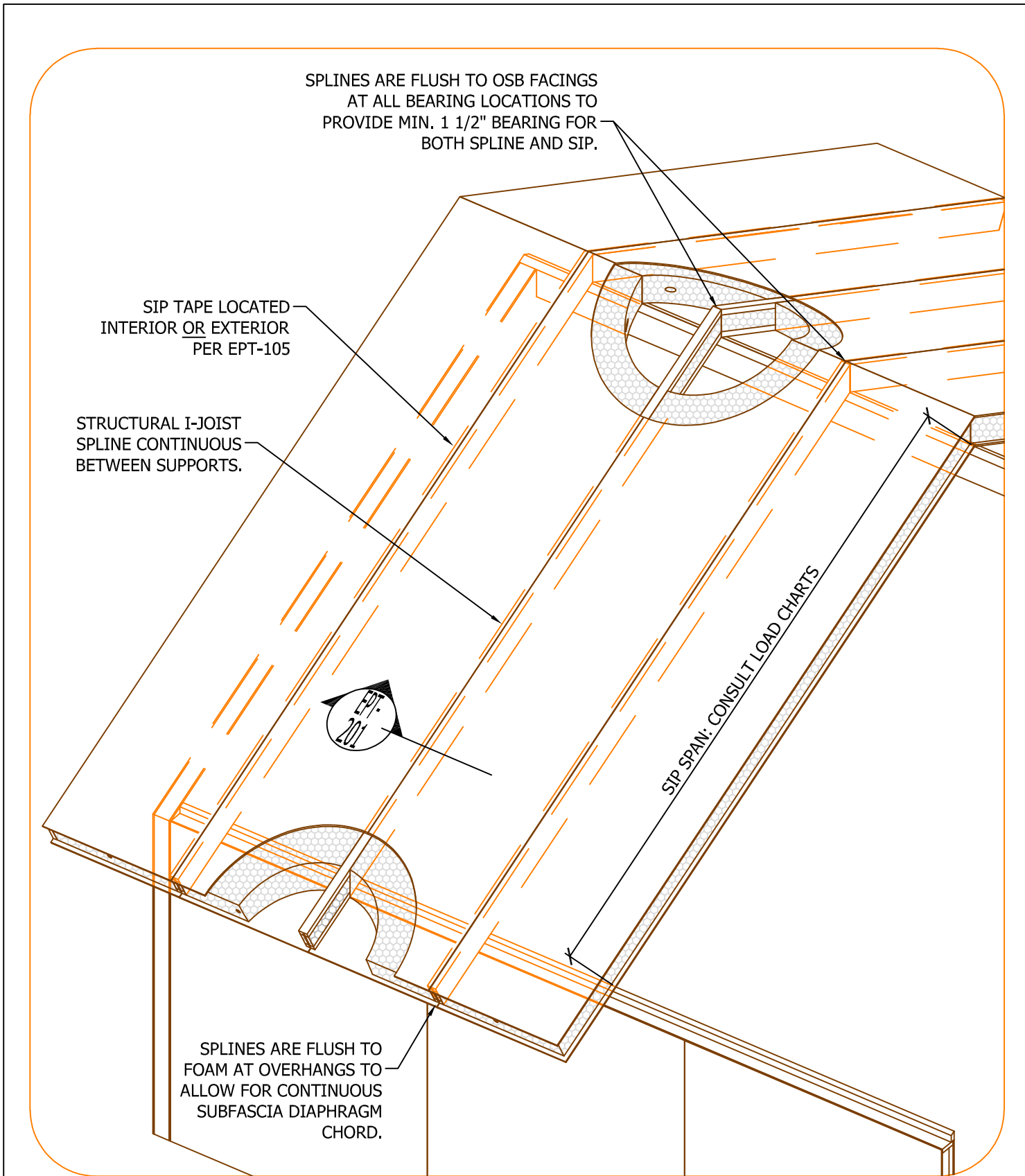
N.T.S.

Rev: 12/10/2021

EPT-201

TYPE I (I-JOIST) SPLINE





N.T.S.

Rev: 7/19/2022

EPT-203

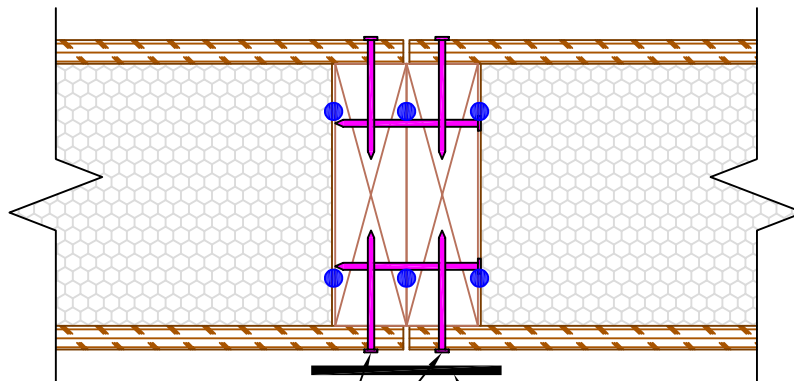
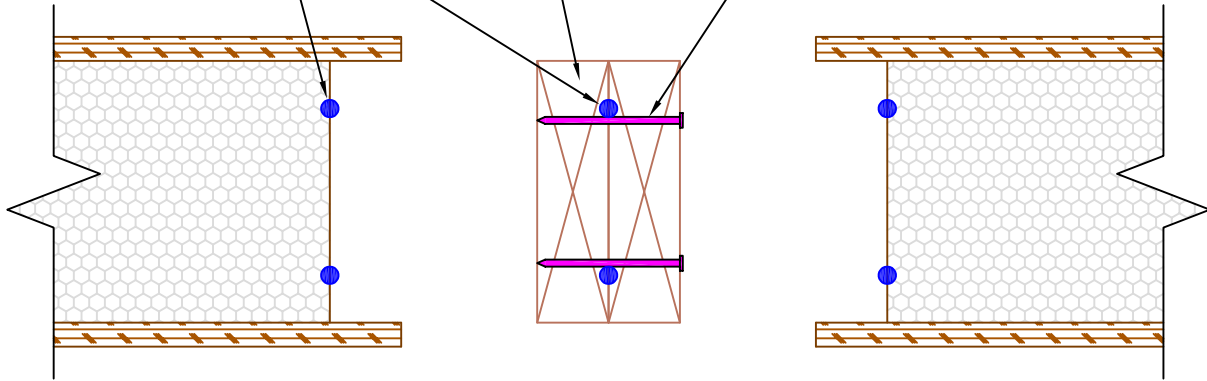
I-JOIST SIP CONNECTION



3/8"φ SEALANT AT EACH MEMBER PER EPT-103 OR EPT-104

CONTINUOUS DOUBLE 2X SPLINE.

10d BOX (0.131) NAILS 12" O.C. IN TWO ROWS STAGGERED FOR EACH MEMBER, U.N.O. IN SHEAR WALL SCHEDULE



NAILS INTO EACH MEMBER PER EPT-100S or EPT-100D U.N.O.

SIP TAPE LOCATED INTERIOR FACE PER EPT-105

N.T.S.

Rev: 12/10/2021

EPT-204

TYPE L (2X) SPLINE

SPLINES ARE FLUSH TO OSB FACINGS  
AT ALL BEARING LOCATIONS TO  
PROVIDE MIN. 1 1/2" BEARING FOR  
BOTH SPLINE AND SIP.

SIP TAPE LOCATED  
INTERIOR OR EXTERIOR  
PER EPT-105

ALL MEMBERS OF  
STRUCTURAL 2X SPLINE  
CONTINUOUS BETWEEN  
SUPPORTS.

EPT-  
204

SIP SPAN: CONSULT LOAD CHARTS

SPLINES ARE FLUSH TO  
FOAM AT OVERHANGS TO  
ALLOW FOR CONTINUOUS  
SUBFASCIA DIAPHRAGM  
CHORD.

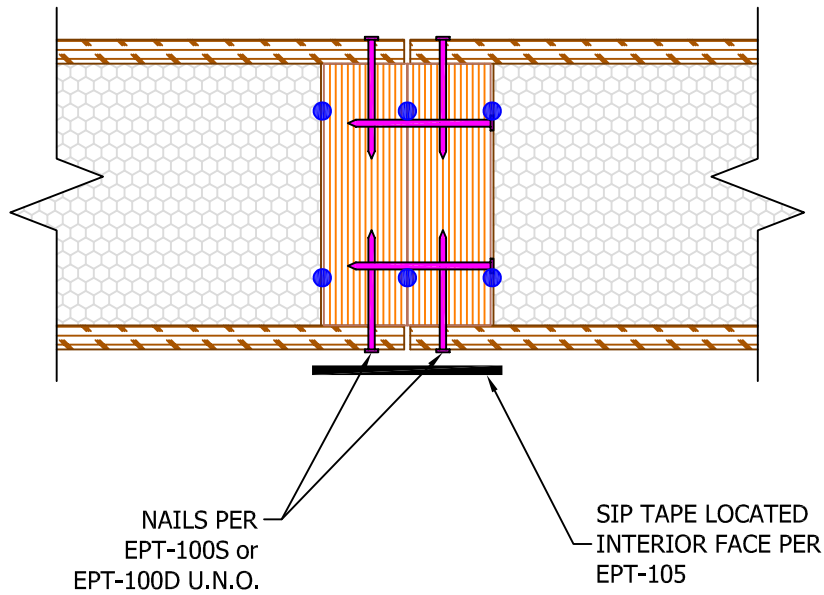
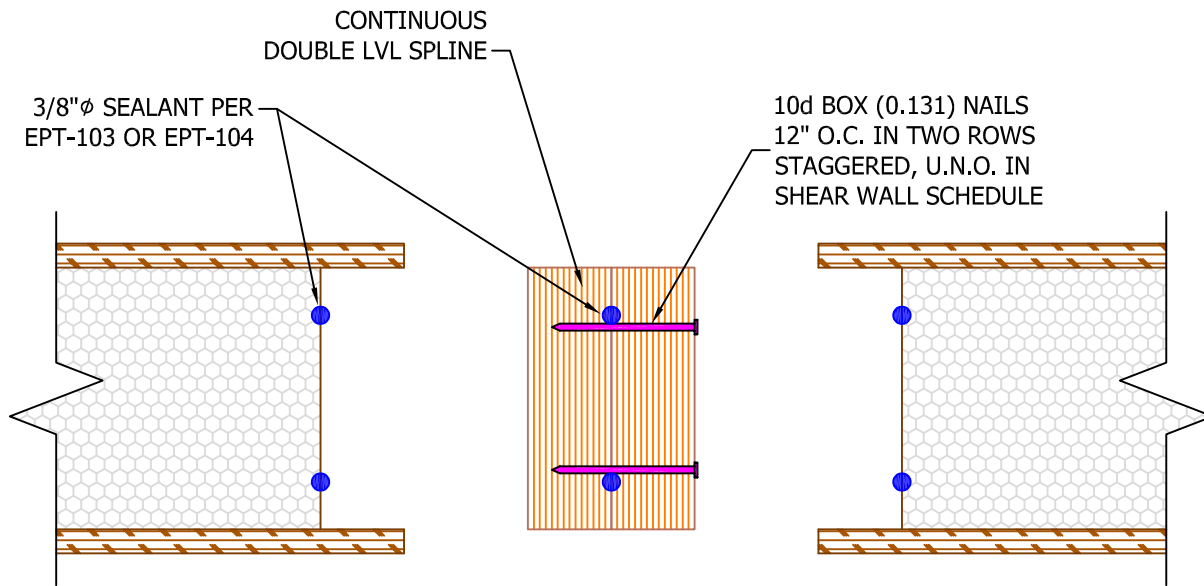
N.T.S.

Rev: 7/10/2022

EPT -205

2X SIP CONNECTION





N.T.S.

Rev: 12/10/2021

EPT-206

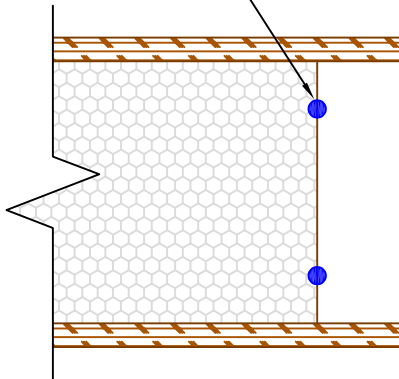
LVL SPLINE



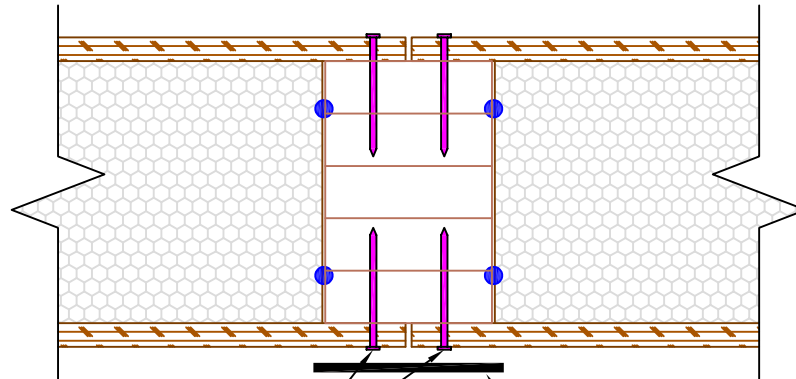
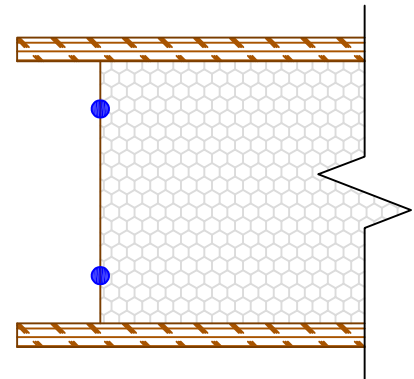


# SINGLE MEMBER LUMBER SPLINE:

3/8"  $\phi$  SEALANT PER  
EPT-103 OR EPT-104



CONTINUOUS SINGLE  
MEMBER GLU-LAM  
SPLINE

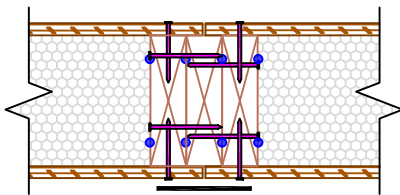


NAILS PER  
EPT-100S or  
EPT-100D U.N.O.

SIP TAPE LOCATED  
INTERIOR FACE PER  
EPT-105

## (ODD NUMBERED) 2X SPLINE:

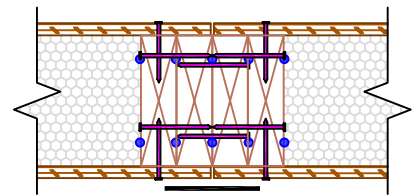
NAIL SPLINE ASSEMBLY TOGETHER WITH 10d BOX (0.131)  
NAILS 12" O.C. IN TWO ROWS STAGGERED FOR EACH MEMBER,  
U.N.O. IN SHEAR WALL SCHEDULE. FACING TO SPLINE NAILING  
PER EPT-100S or EPT-100D U.N.O.



N.T.S.

## (EVEN NUMBERED) 2X SPLINE:

NAIL SPLINE ASSEMBLY TOGETHER WITH 10d BOX (0.131)  
NAILS 12" O.C. IN TWO ROWS STAGGERED FOR EACH MEMBER,  
U.N.O. IN SHEAR WALL SCHEDULE. FACING TO SPLINE NAILING  
PER EPT-100S or EPT-100D U.N.O.



Rev: 6/3/2022

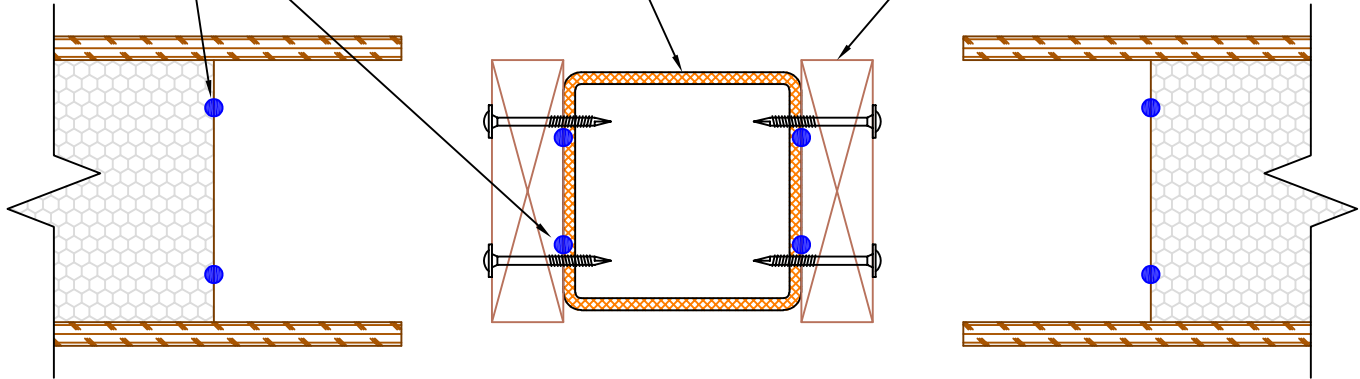
EPT-208

ALTERNATE LUMBER SPLINES

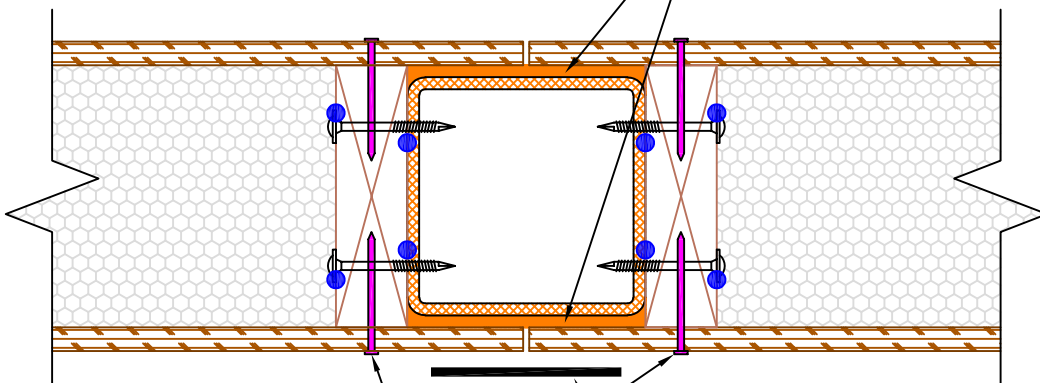
3/8"φ SEALANT  
PER EPT-103 OR  
EPT-104

TUBE STEEL  
PER PLAN

2X NAILER ATTACHED TO STEEL  
WITH SIMPSON TB1460S SELF  
TAPPING SCREWS SPACED PER  
ENGINEER. U.N.O.



USE EXPANDING SPRAY  
FOAM TO FILL GAP AT  
FRONT AND BACK.



NAILS INTO EACH  
MEMBER PER  
EPT-100S U.N.O.

SIP TAPE LOCATED  
INTERIOR FACE PER  
EPT-105

N.T.S.

Rev: 7/26/2022

EPT-209

HSS 2X SPLINE

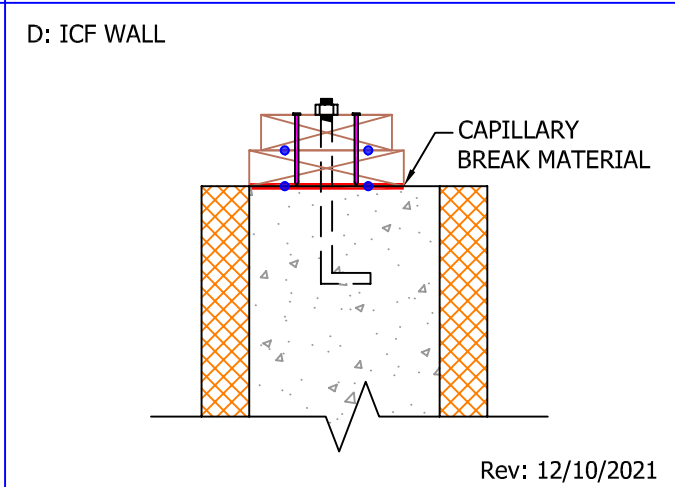
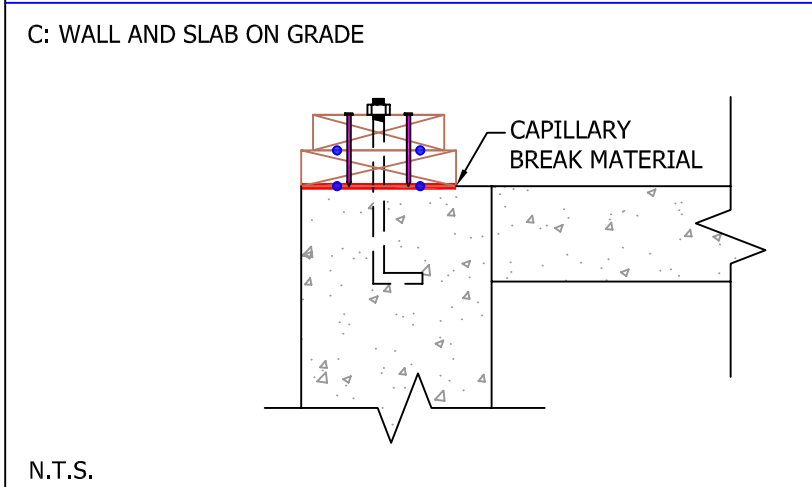
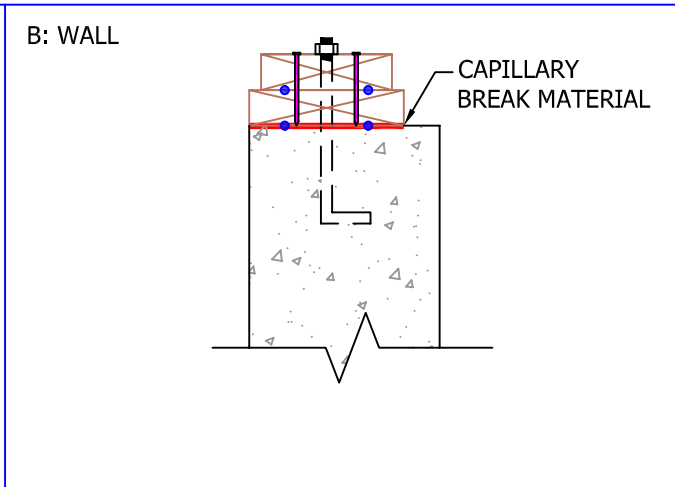
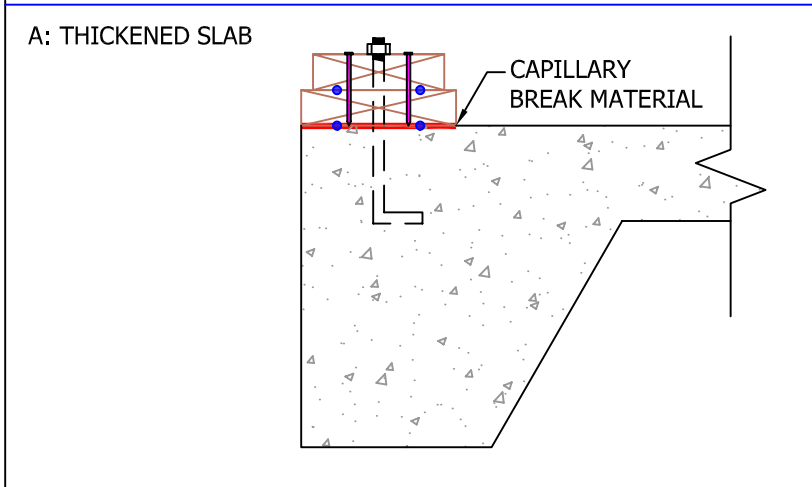
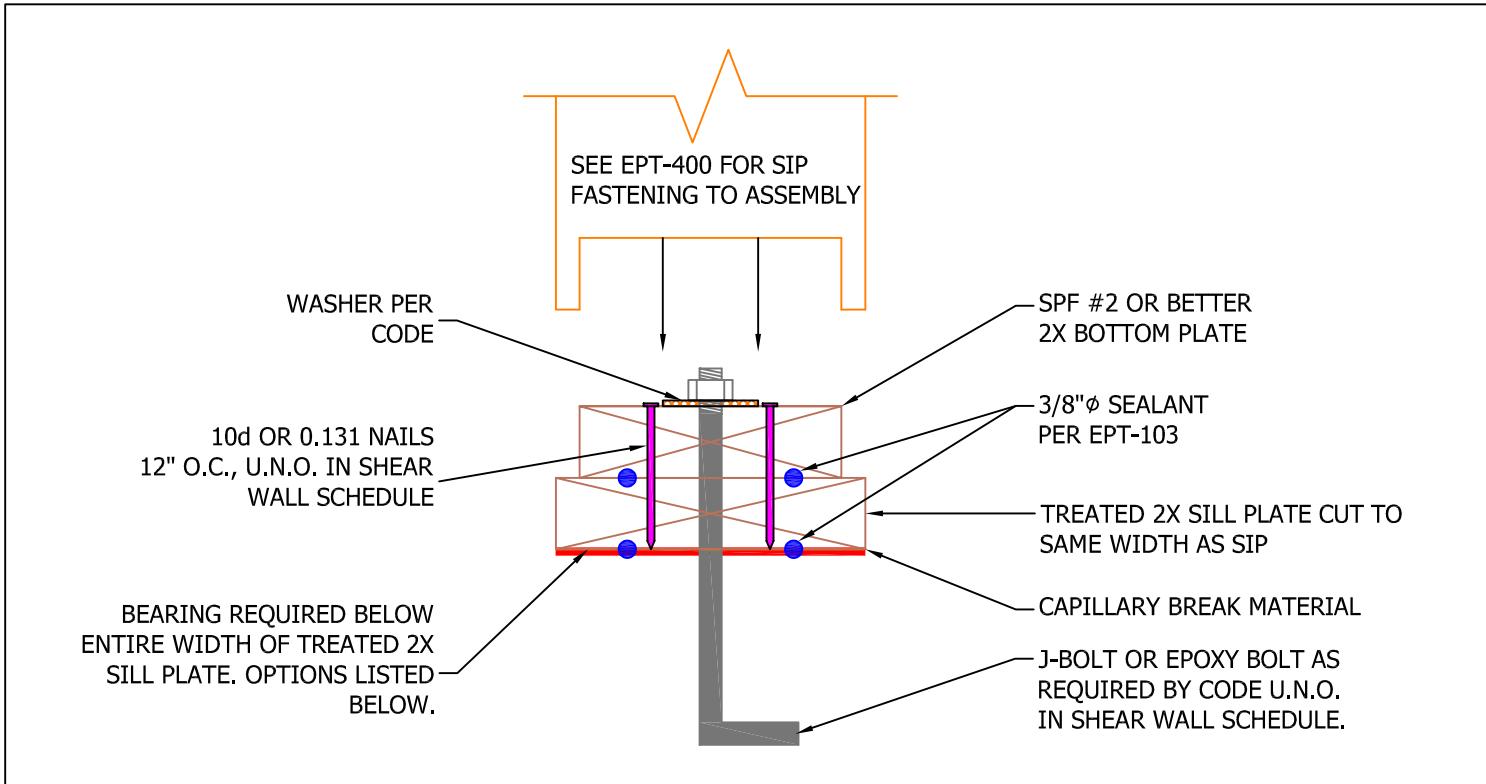


# 300 Series: SIP to Foundation Details



**EXTREME PANEL**  
**TECHNOLOGIES**





N.T.S.

Rev: 12/10/2021

EPT-301

2X SILL/BOTTOM PLATE  
FOUNDATION CONNECTION



SEE EPT-400 FOR SIP  
FASTENING TO ASSEMBLY

WASHER PER  
CODE

SPF #2 OR BETTER  
2X BOTTOM PLATE

3/8"  $\phi$  SEALANT  
PER EPT-103

10d OR 0.131 NAILS  
12" O.C., U.N.O. IN SHEAR  
WALL SCHEDULE

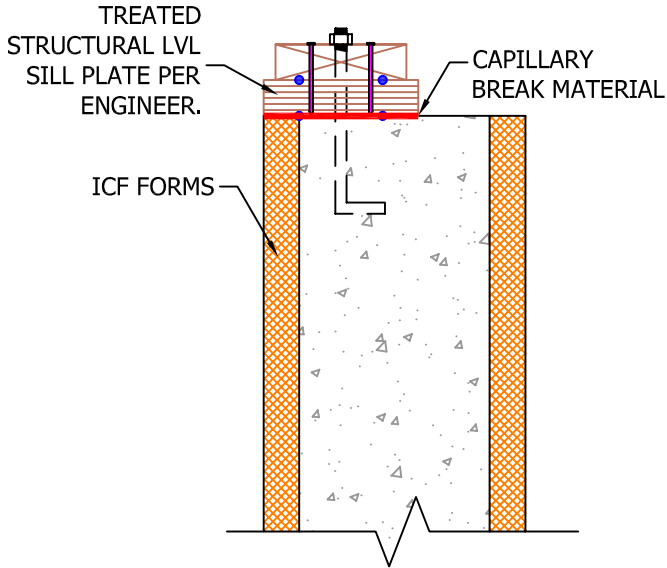
TREATED 2X SILL PLATE CUT TO  
SAME WIDTH AS SIP

CAPILLARY BREAK MATERIAL

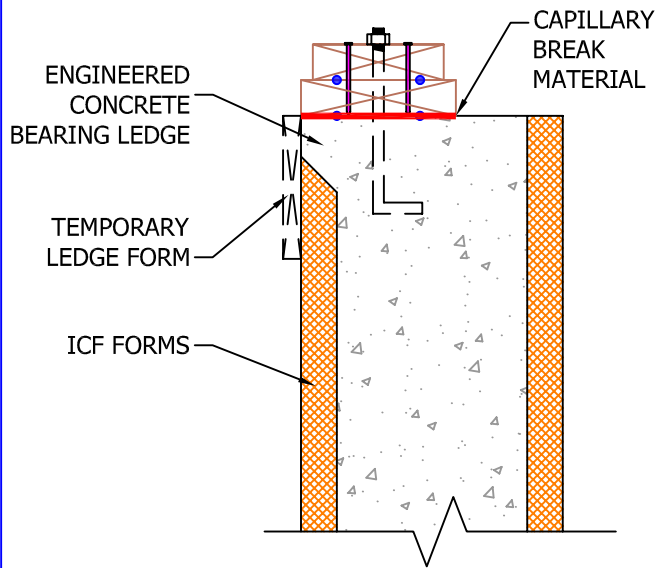
BEARING REQUIRED BELOW  
ENTIRE WIDTH OF TREATED 2X  
SILL PLATE. OPTIONS LISTED  
BELOW.

J-BOLT OR EPOXY BOLT AS  
REQUIRED BY CODE U.N.O.  
IN SHEAR WALL SCHEDULE.

A: CANTILEVERED STRUCTURAL SILL PLATE



B: ICF BEARING LEDGE



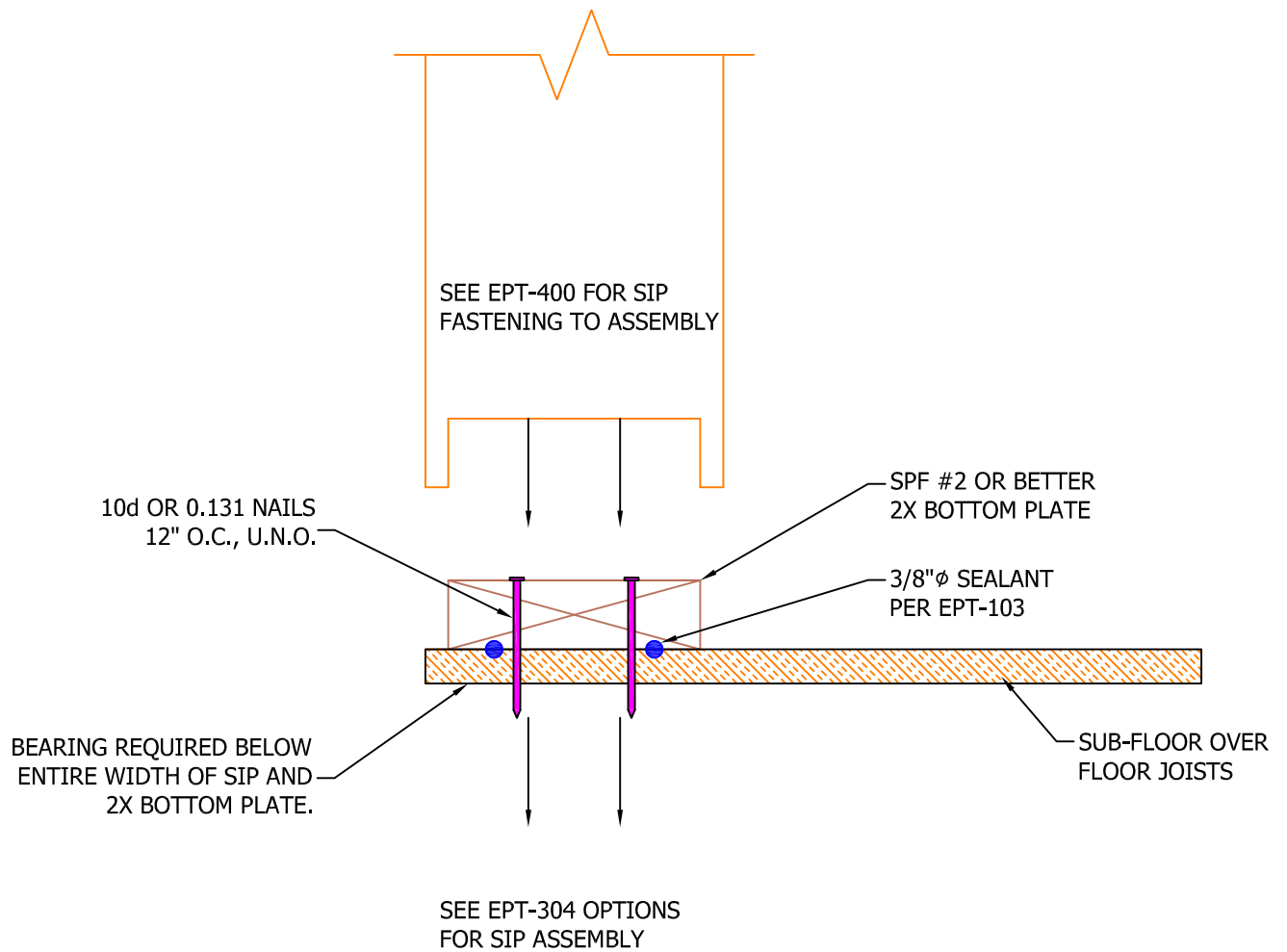
N.T.S.

Rev: 9/19/2022

EPT-302

CANTILEVERED SILL/BOTTOM PLATE  
FOUNDATION CONNECTION

  
**EXTREME PANEL  
TECHNOLOGIES**



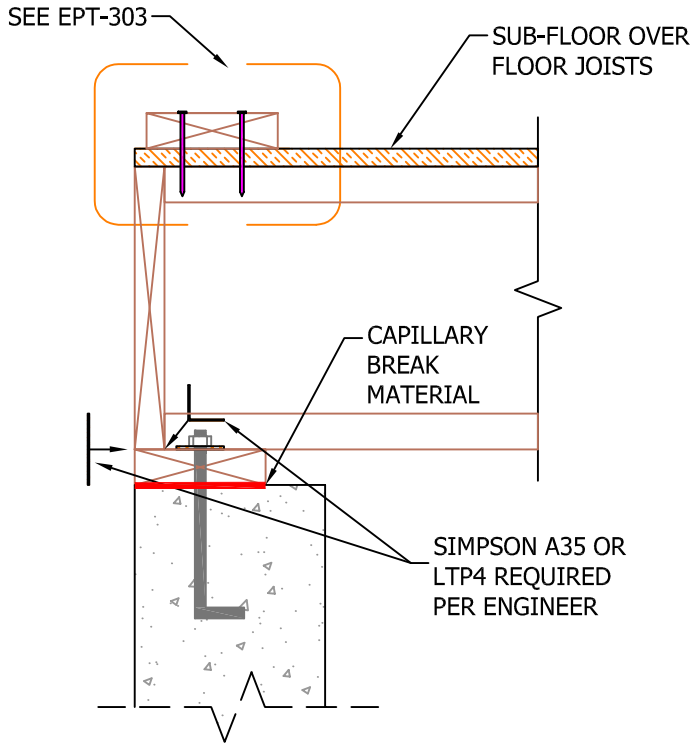
N.T.S.

Rev: 12/10/2021

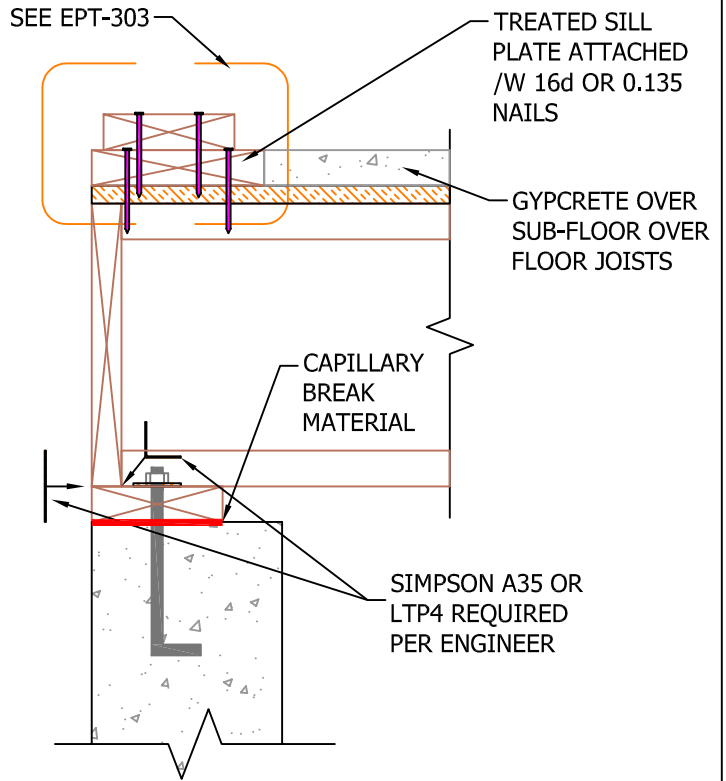
EPT -303

BOTTOM PLATE

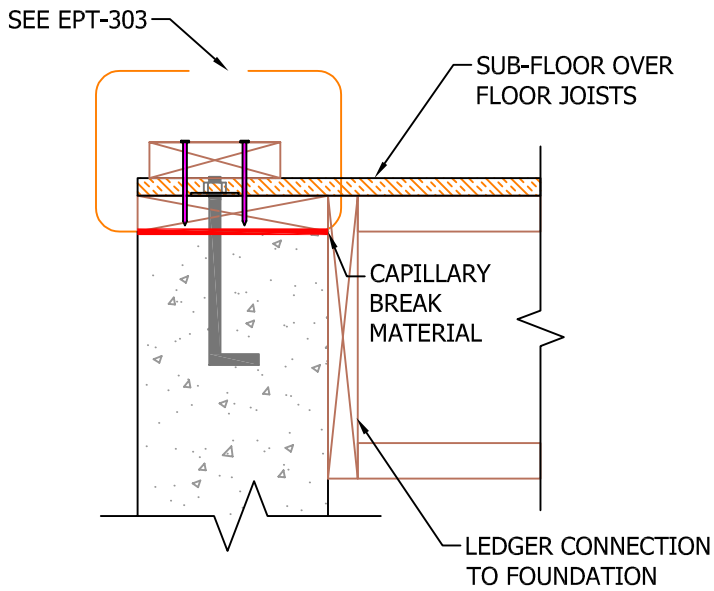
A: CONVENTIONAL FLOOR SYSTEM



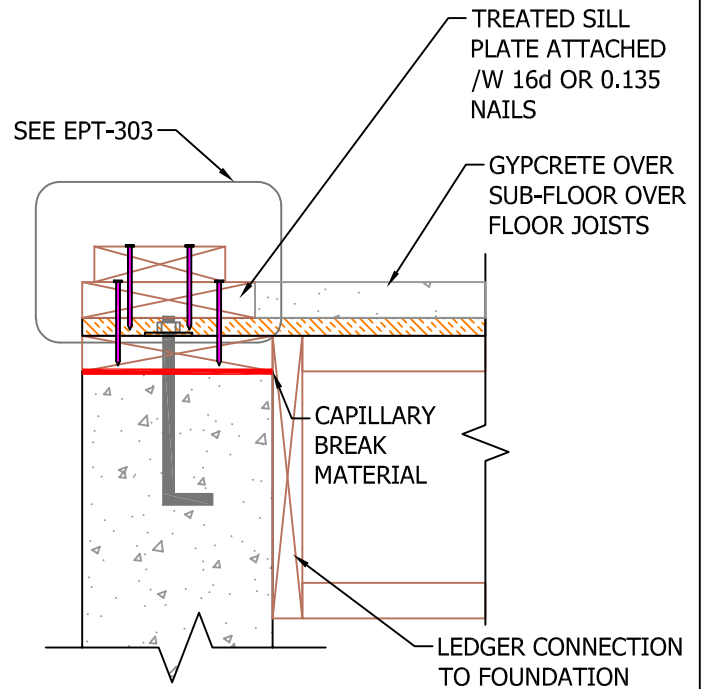
B: CONVENTIONAL FLOOR W/ GYPCRETE



C: HANGING FLOOR SYSTEM



D: HANGING FLOOR SYSTEM W/ GYPCRETE



N.T.S.

Rev: 9/19/2022

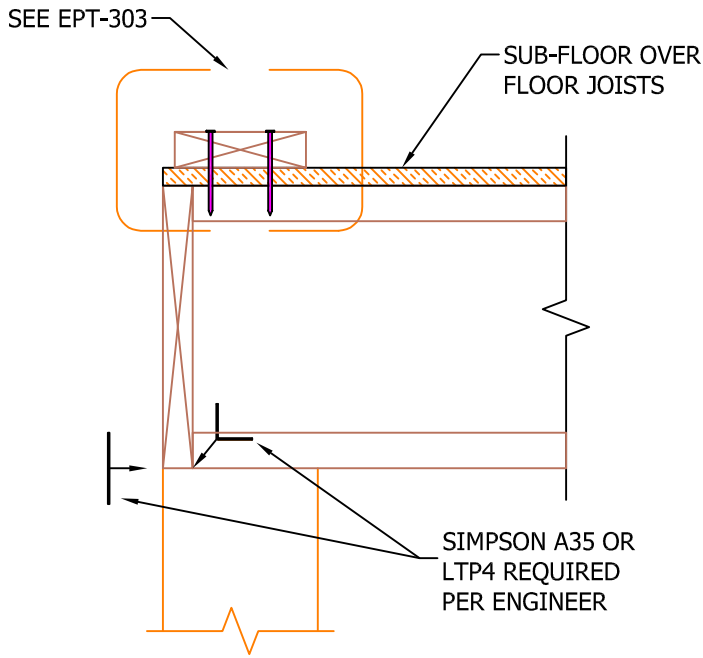
EPT-304A-D

BOTTOM PLATE  
FLOOR JOIST TO CONCRETE

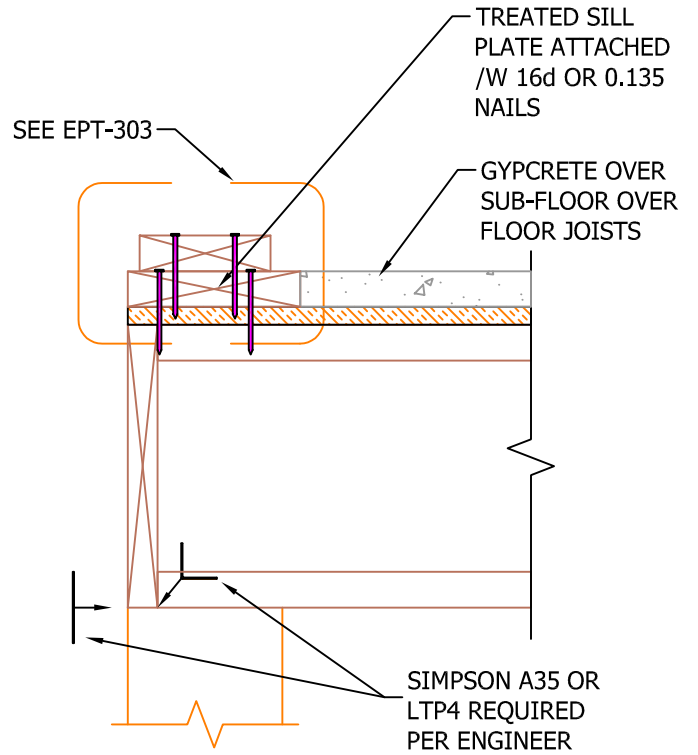




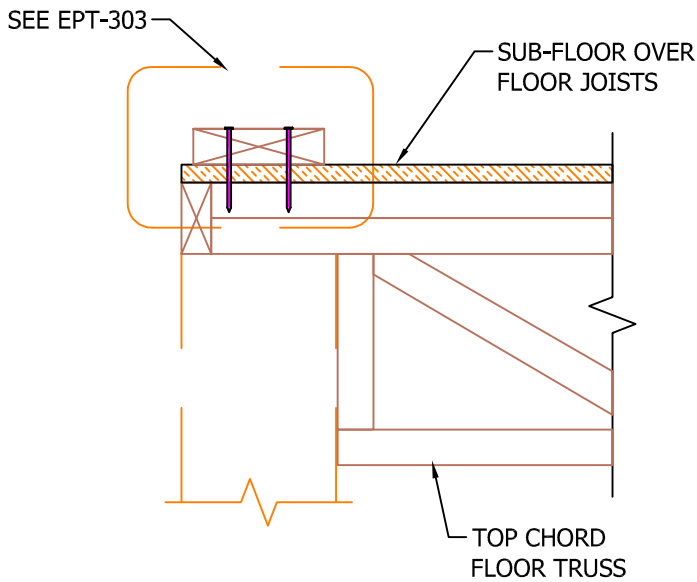
E: CONVENTIONAL FLOOR SYSTEM



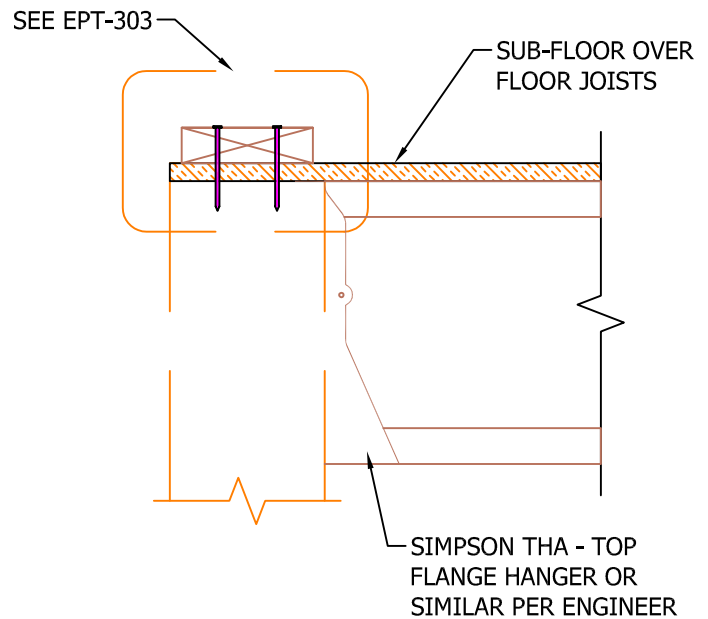
F: CONVENTIONAL FLOOR SYSTEM W/ GYPCRETE



G: TOP CHORD FLOOR SYSTEM



H: HANGING FLOOR SYSTEM



N.T.S.

Rev: 2/21/2023

EPT -304E-H

BOTTOM PLATE  
FLOOR JOISTS TO WALL



REFERENCE SIP SHOP DRAWINGS FOR CORNER LAP CONFIGURATION.

GAP BETWEEN BOTTOM PLATES TO ACCOMMODATE SIP FACING

TREATED SILL PLATE INSTALLED FLUSH TO OUTSIDE FACE OF FOUNDATION WALL. SEE EPT-300 OR EPT-301

INSET BOTTOM PLATE SIP FACING THICKNESS, TYPICALLY 7/16"

EQUAL  
EQUAL

STANDARD 2X BOTTOM PLATE

TREATED SILL PLATE RIPPED TO FULL WIDTH OF SIP.

WIDTH OF FOUNDATION WALL

ANCHOR BOLT CENTERED IN SILL AND BOTTOM PLATE WITH SUFFICIENT HEIGHT TO CAPTURE BOTH SILL PLATE AND BOTTOM PLATE. SEE EPT-300 OR EPT-301

ANCHOR BOLTS AS REQUIRED BY CODE U.N.O. IN SHEAR WALL SCHEDULE.

### SUB FLOOR INSTALLATION SIMILAR:

STANDARD 2X BOTTOM PLATE

PLATES OFFSET FROM EDGE OF DECK AND AT BUTT JOINTS THE THICKNESS OF SIP FACING.

SUB FLOOR

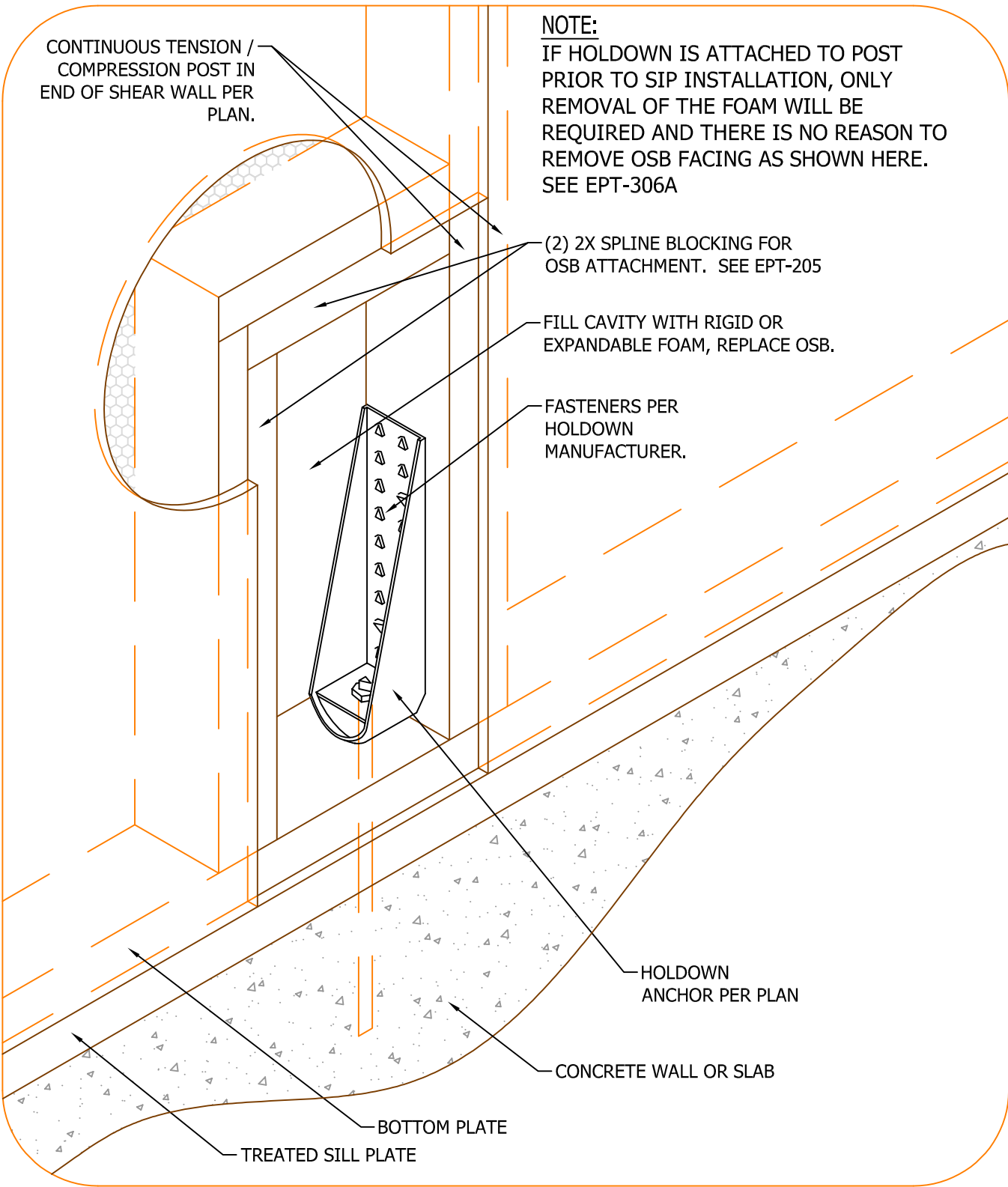
N.T.S.

Rev: 12/10/2021

EPT-305

BOTTOM PLATE PLACEMENT





**NOTE:**  
 IF HOLDOWN IS ATTACHED TO POST PRIOR TO SIP INSTALLATION, ONLY REMOVAL OF THE FOAM WILL BE REQUIRED AND THERE IS NO REASON TO REMOVE OSB FACING AS SHOWN HERE. SEE EPT-306A

CONTINUOUS TENSION /  
 COMPRESSION POST IN  
 END OF SHEAR WALL PER  
 PLAN.

(2) 2X SPLINE BLOCKING FOR  
 OSB ATTACHMENT. SEE EPT-205

FILL CAVITY WITH RIGID OR  
 EXPANDABLE FOAM, REPLACE OSB.

FASTENERS PER  
 HOLDOWN  
 MANUFACTURER.

HOLDOWN  
 ANCHOR PER PLAN

CONCRETE WALL OR SLAB

BOTTOM PLATE

TREATED SILL PLATE

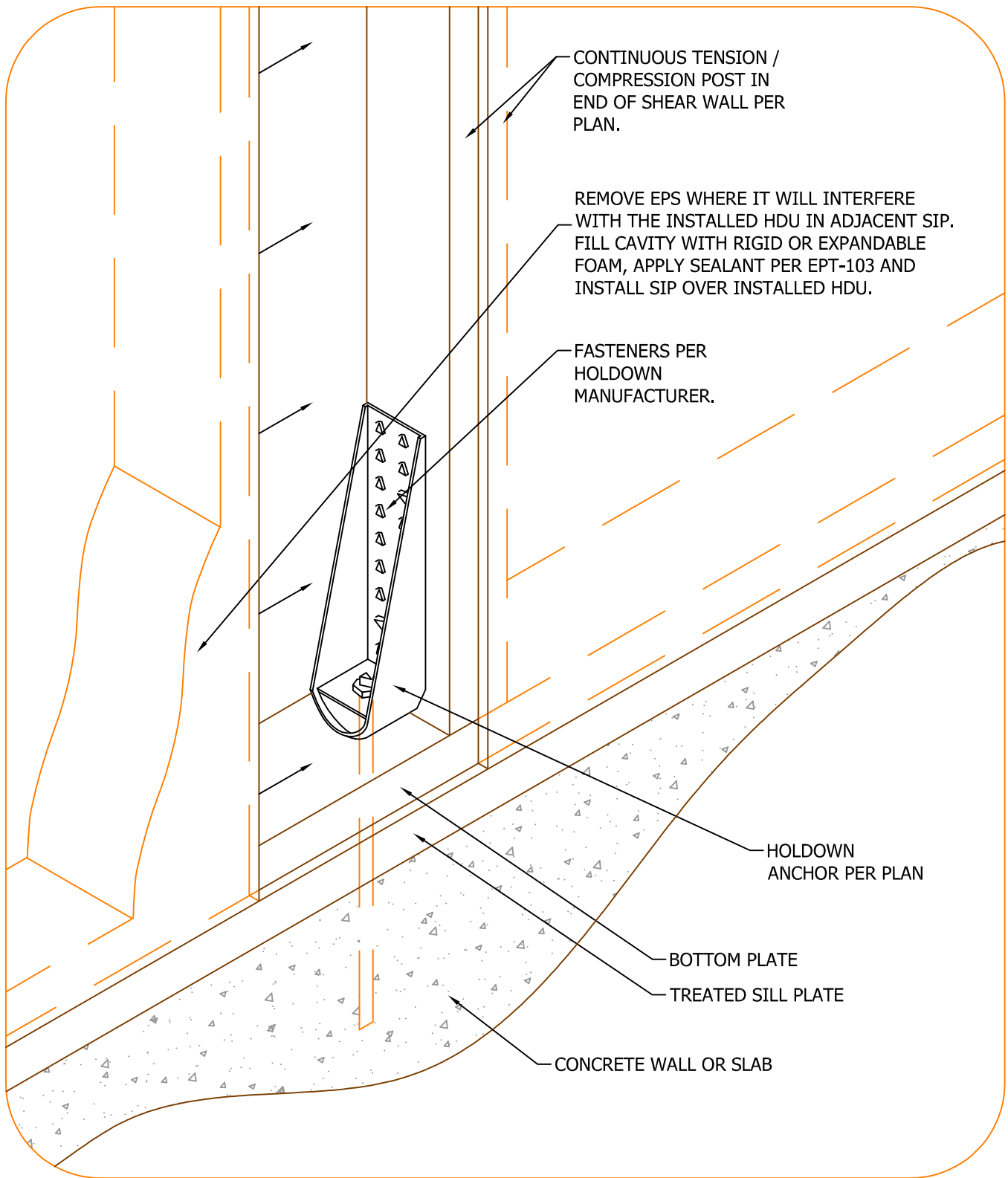
N.T.S.

Rev: 12/10/2021

**EPT -306**

**HDU TYPE HOLDOWN**





CONTINUOUS TENSION / COMPRESSION POST IN END OF SHEAR WALL PER PLAN.

REMOVE EPS WHERE IT WILL INTERFERE WITH THE INSTALLED HDU IN ADJACENT SIP. FILL CAVITY WITH RIGID OR EXPANDABLE FOAM, APPLY SEALANT PER EPT-103 AND INSTALL SIP OVER INSTALLED HDU.

FASTENERS PER HOLDOWN MANUFACTURER.

HOLDOWN ANCHOR PER PLAN

BOTTOM PLATE

TREATED SILL PLATE

CONCRETE WALL OR SLAB

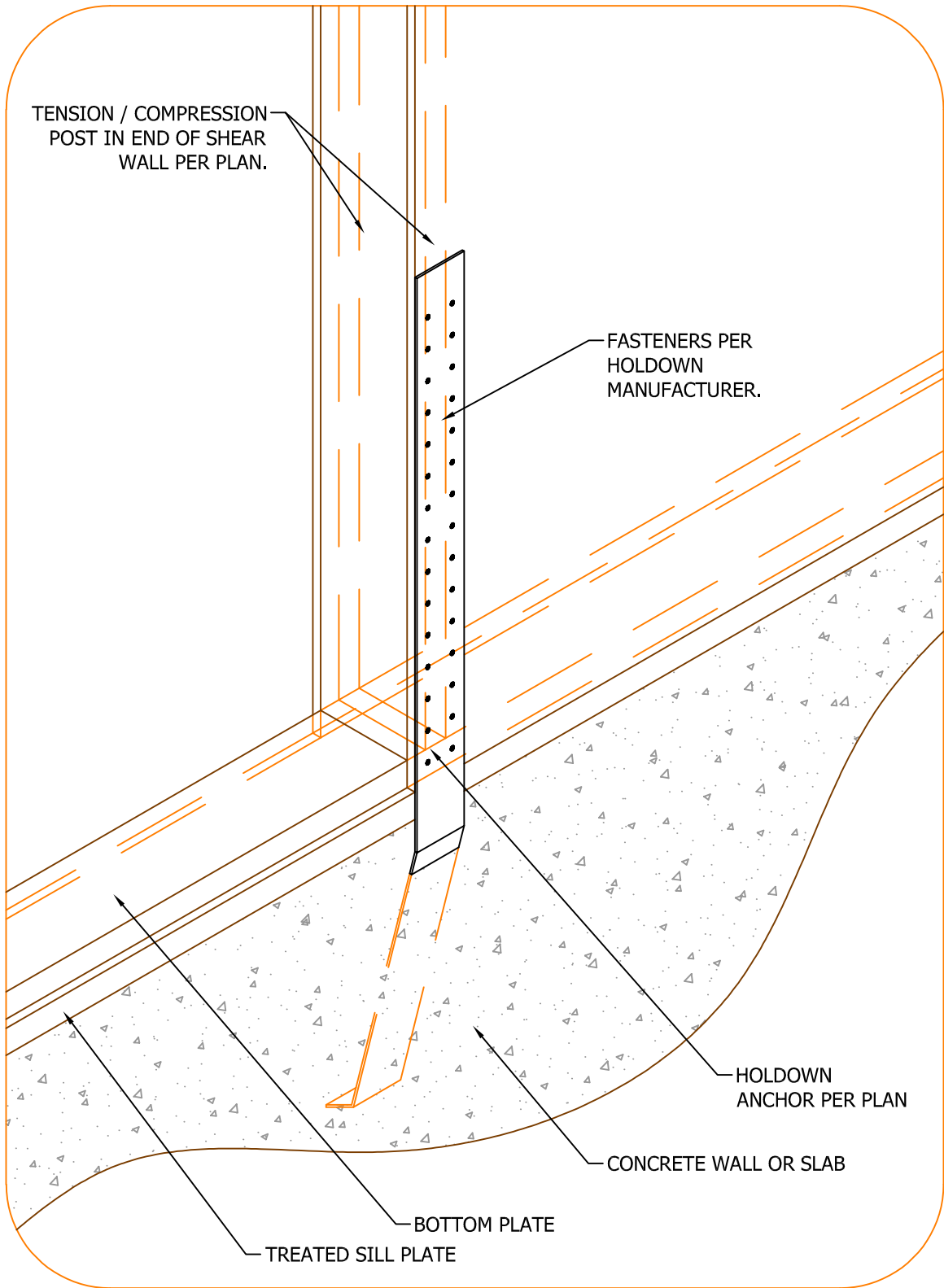
N.T.S.

Rev: 12/10/2021

EPT-306A

HDU TYPE HOLDOWN  
INSTALLED PRIOR TO SIP





N.T.S.

Rev: 12/10/2021

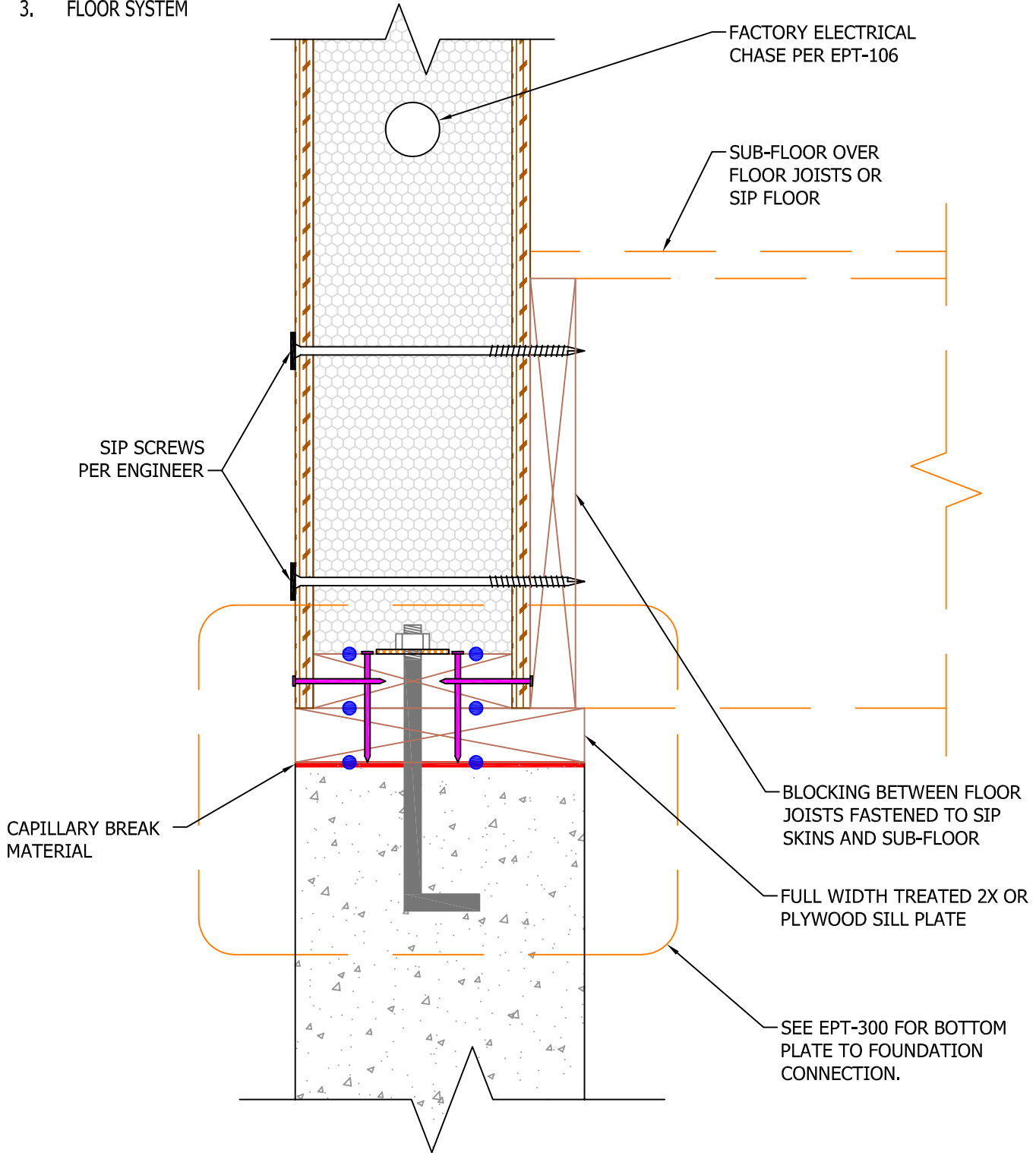
EPT -307

STRAP HOLDOWN



**ASSEMBLY SEQUENCE:**

1. SILL AND BOTTOM PLATE TO FOUNDATION
2. SIP WALL
3. FLOOR SYSTEM



N.T.S.

Rev: 9/19/2022

EPT-308

**BOTTOM PLATE INSULATED RIM  
FOUNDATION CONNECTION**



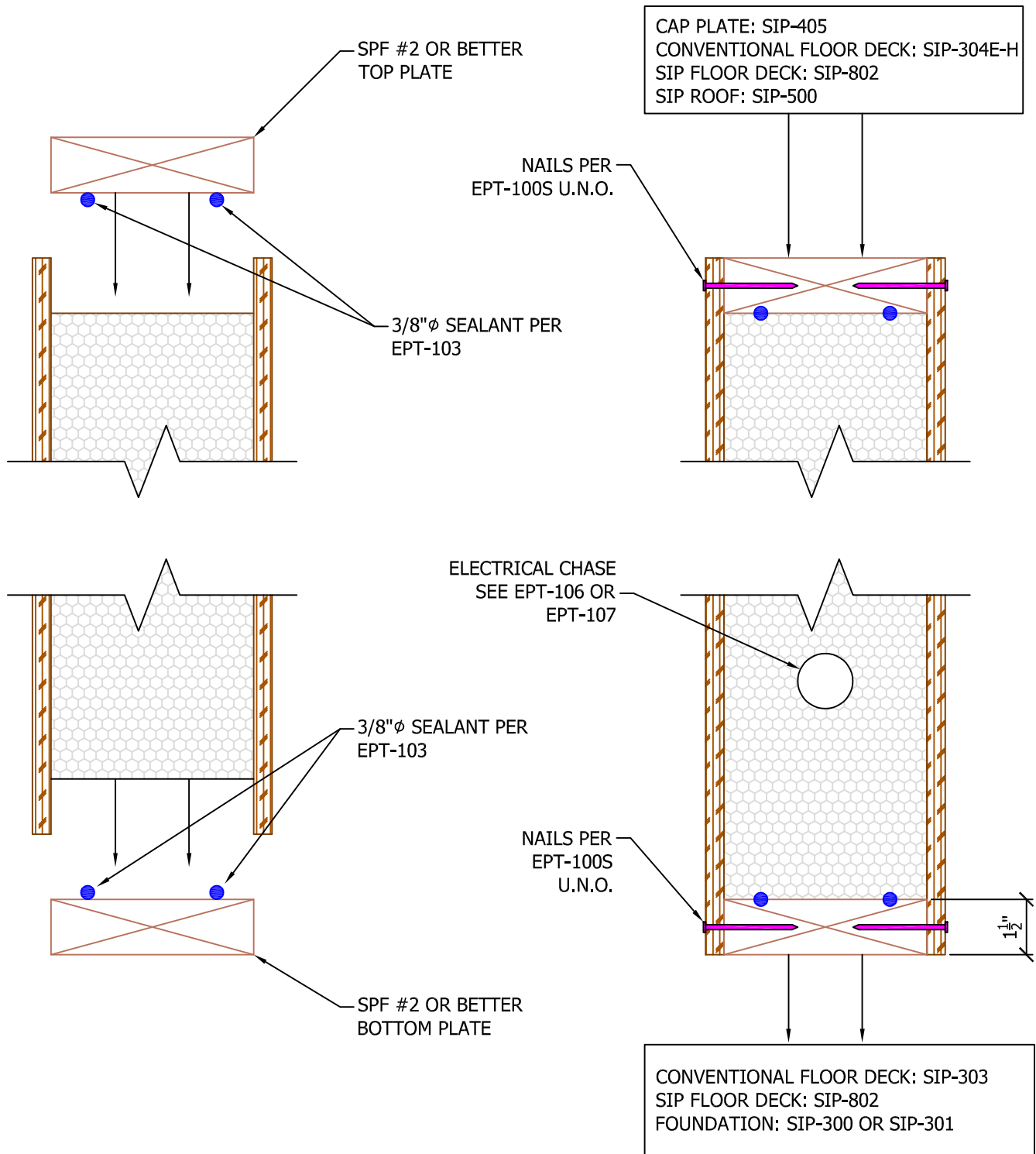
# 400 Series: Wall Details



**EXTREME PANEL**  
**TECHNOLOGIES**







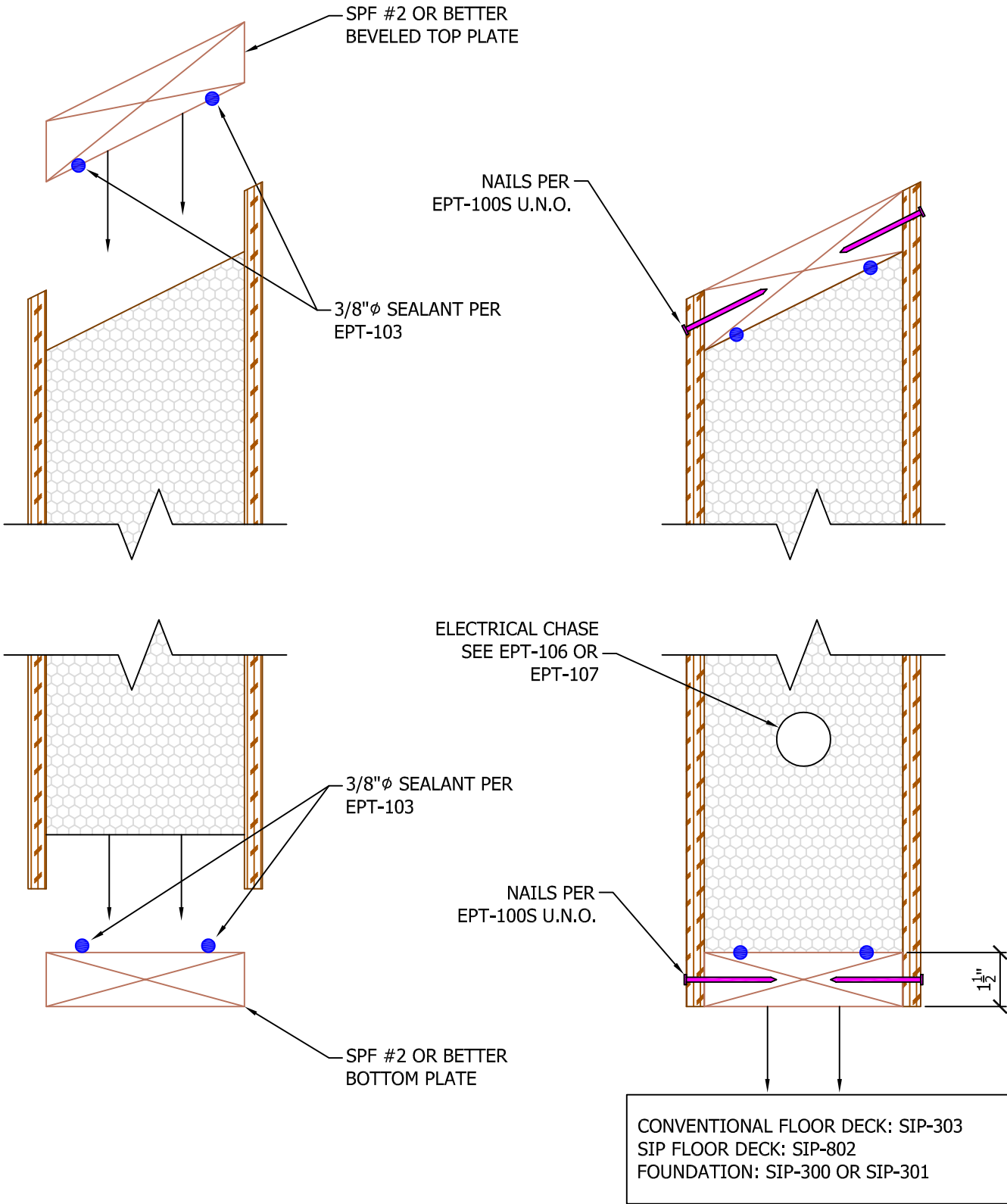
N.T.S.

Rev: 12/10/2021

EPT-400

SIP WALL PLATE





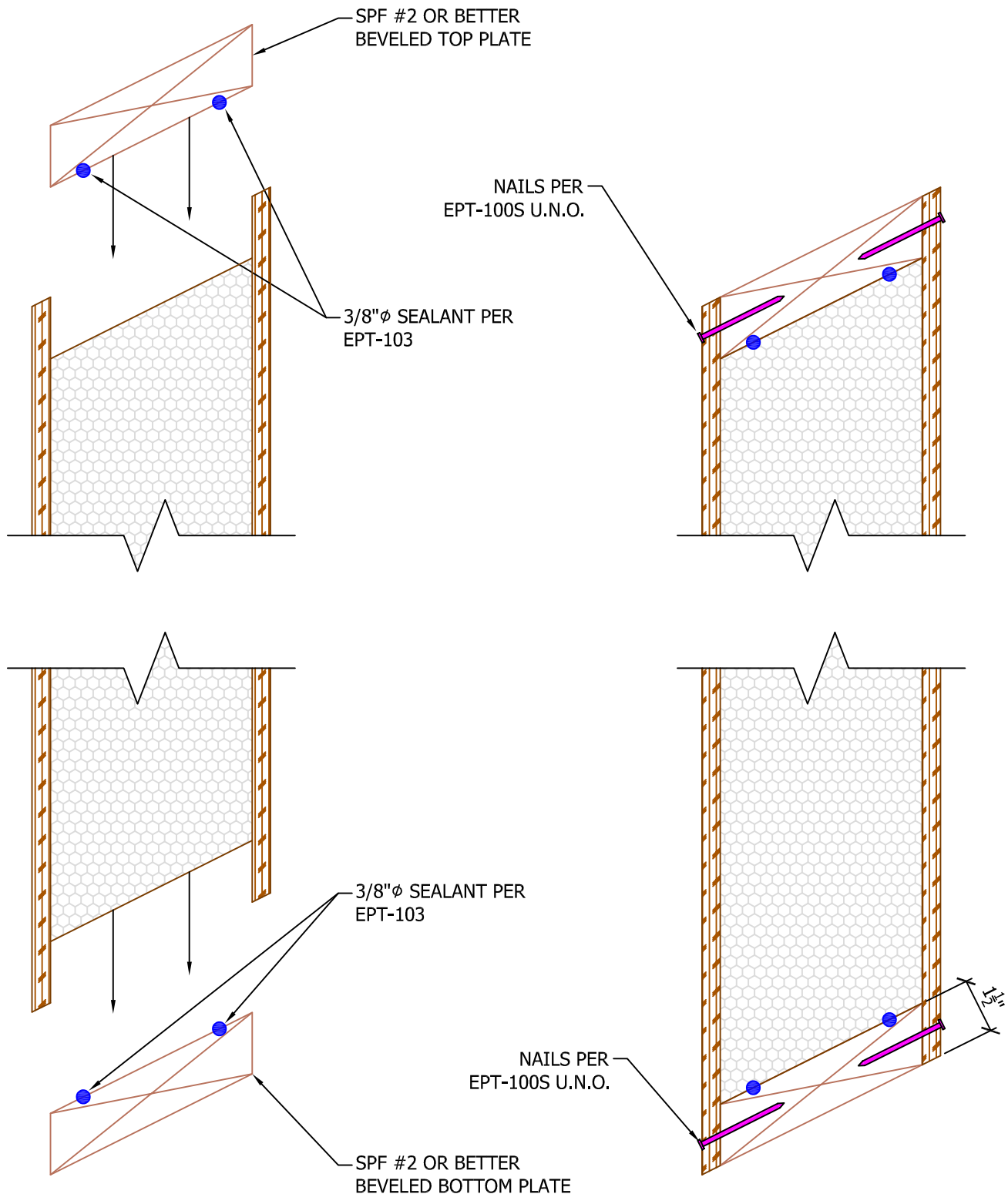
N.T.S.

Rev: 12/10/2021

EPT-401

SIP WALL PLATE  
BEVELED TOP





N.T.S.

Rev: 12/10/2021

EPT-402

**BEVELED SIP WALL PLATE  
TOP AND BOTTOM**



**NOTE:**  
SEE EPT-305 FOR BOTTOM  
PLATE PLACEMENT

3/8"φ SEALANT PER  
EPT-103

NAILING PER EPT-100S

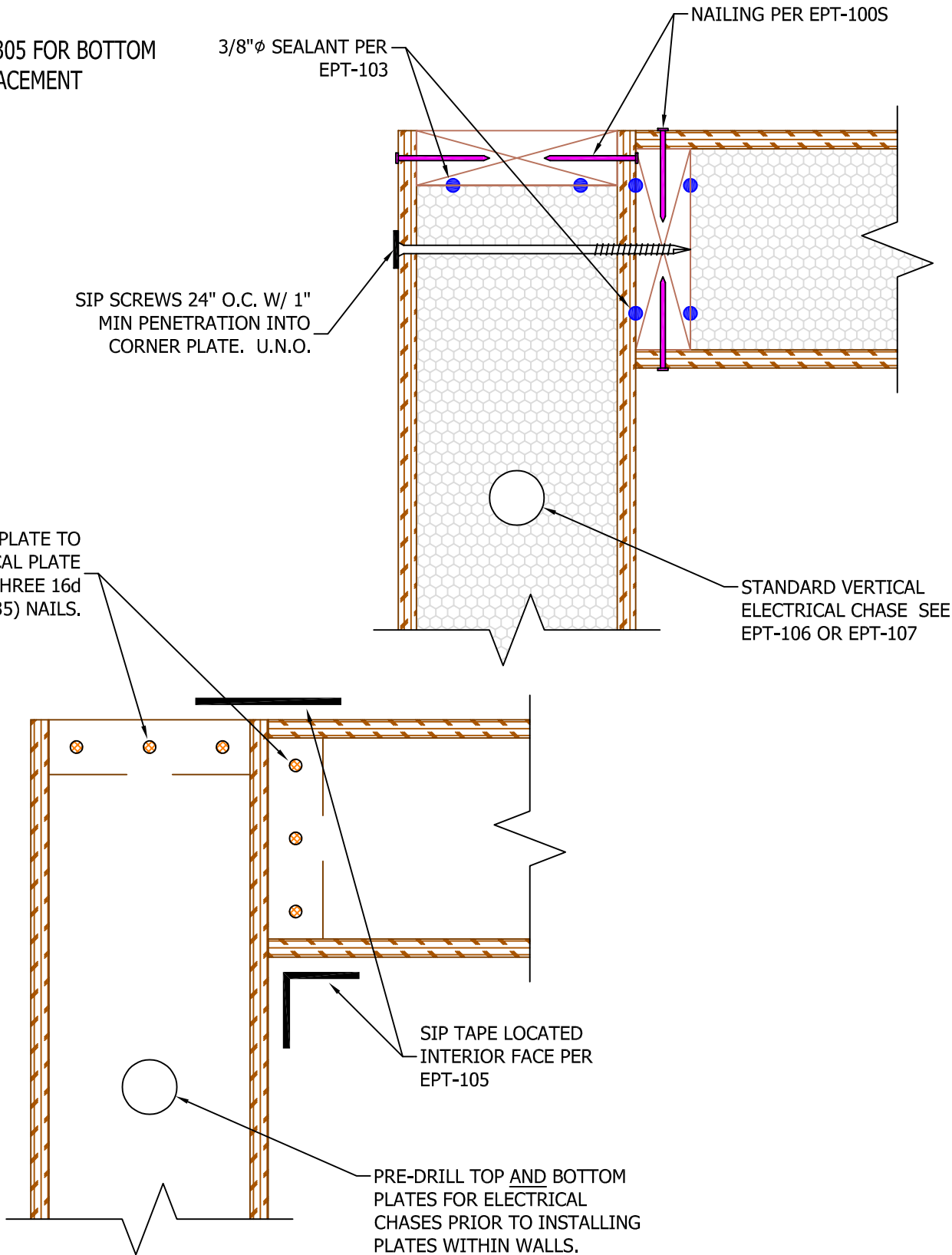
SIP SCREWS 24" O.C. W/ 1"  
MIN PENETRATION INTO  
CORNER PLATE. U.N.O.

NAIL TOP PLATE TO  
VERTICAL PLATE  
WITH THREE 16d  
BOX (0.135) NAILS.

STANDARD VERTICAL  
ELECTRICAL CHASE SEE  
EPT-106 OR EPT-107

SIP TAPE LOCATED  
INTERIOR FACE PER  
EPT-105

PRE-DRILL TOP AND BOTTOM  
PLATES FOR ELECTRICAL  
CHASES PRIOR TO INSTALLING  
PLATES WITHIN WALLS.



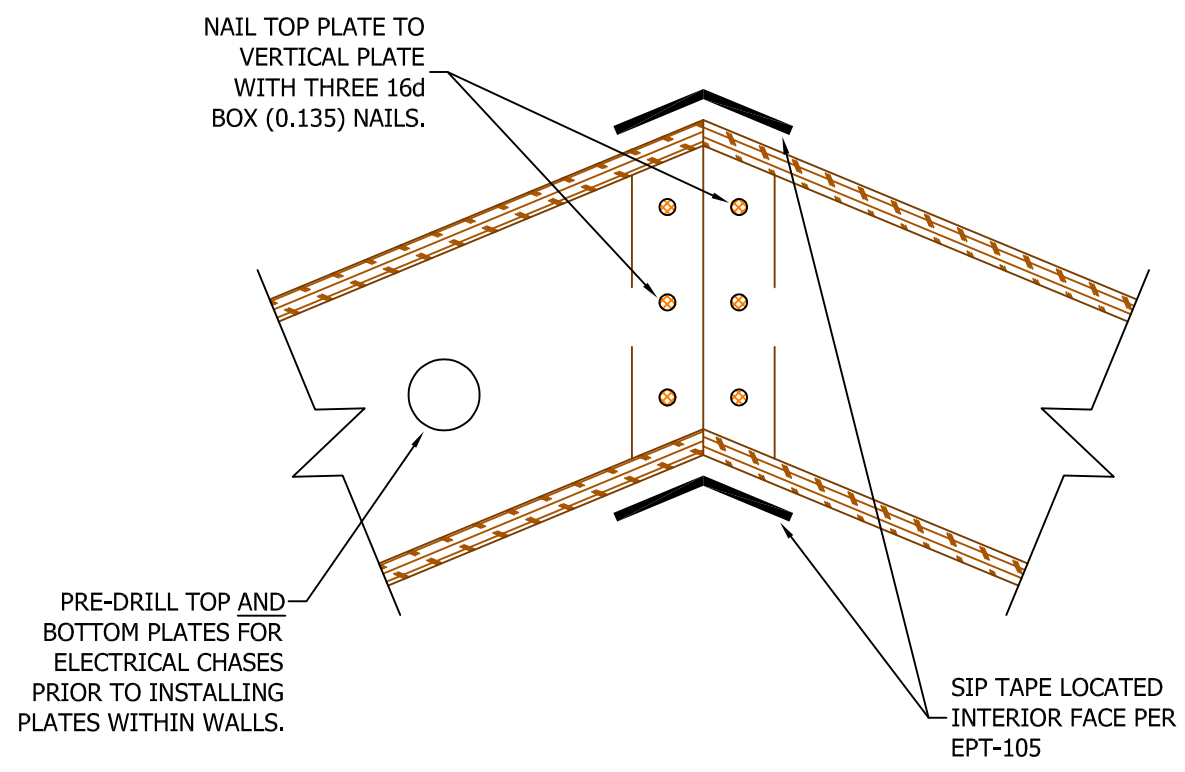
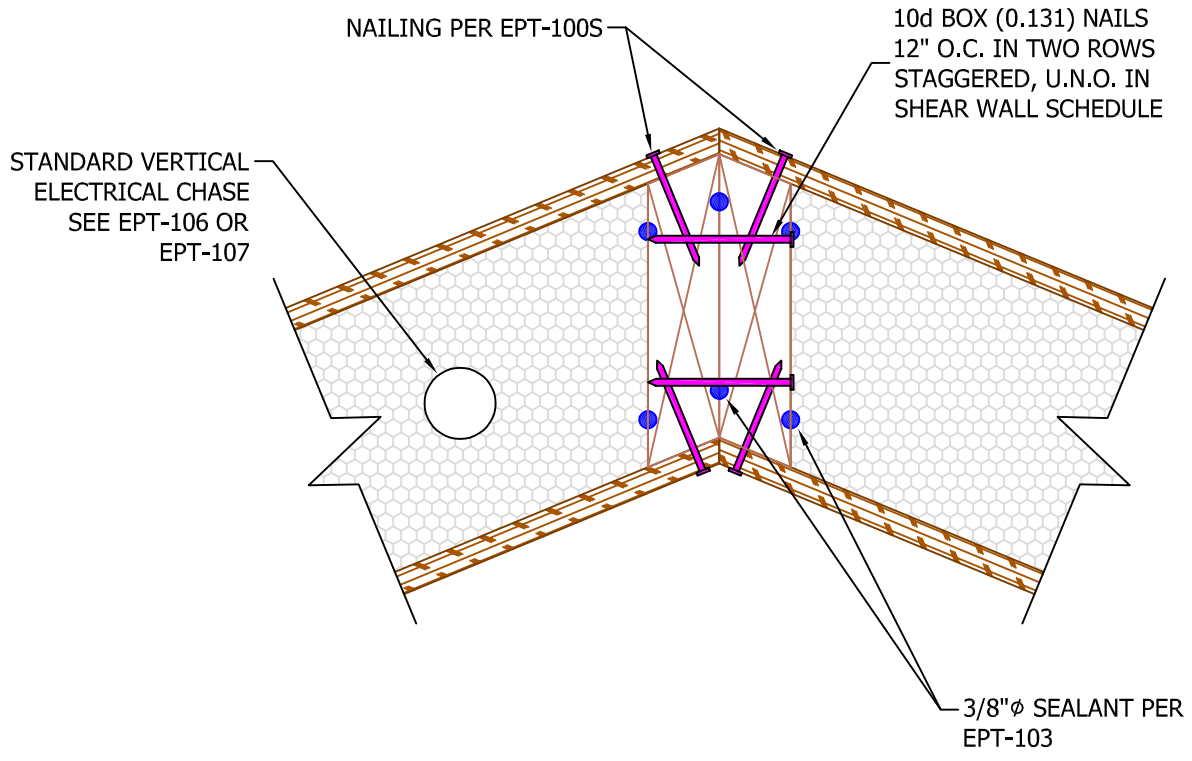
N.T.S.

Rev: 12/10/2021

EPT-403

WALL CORNER





N.T.S.

Rev: 12/10/2021

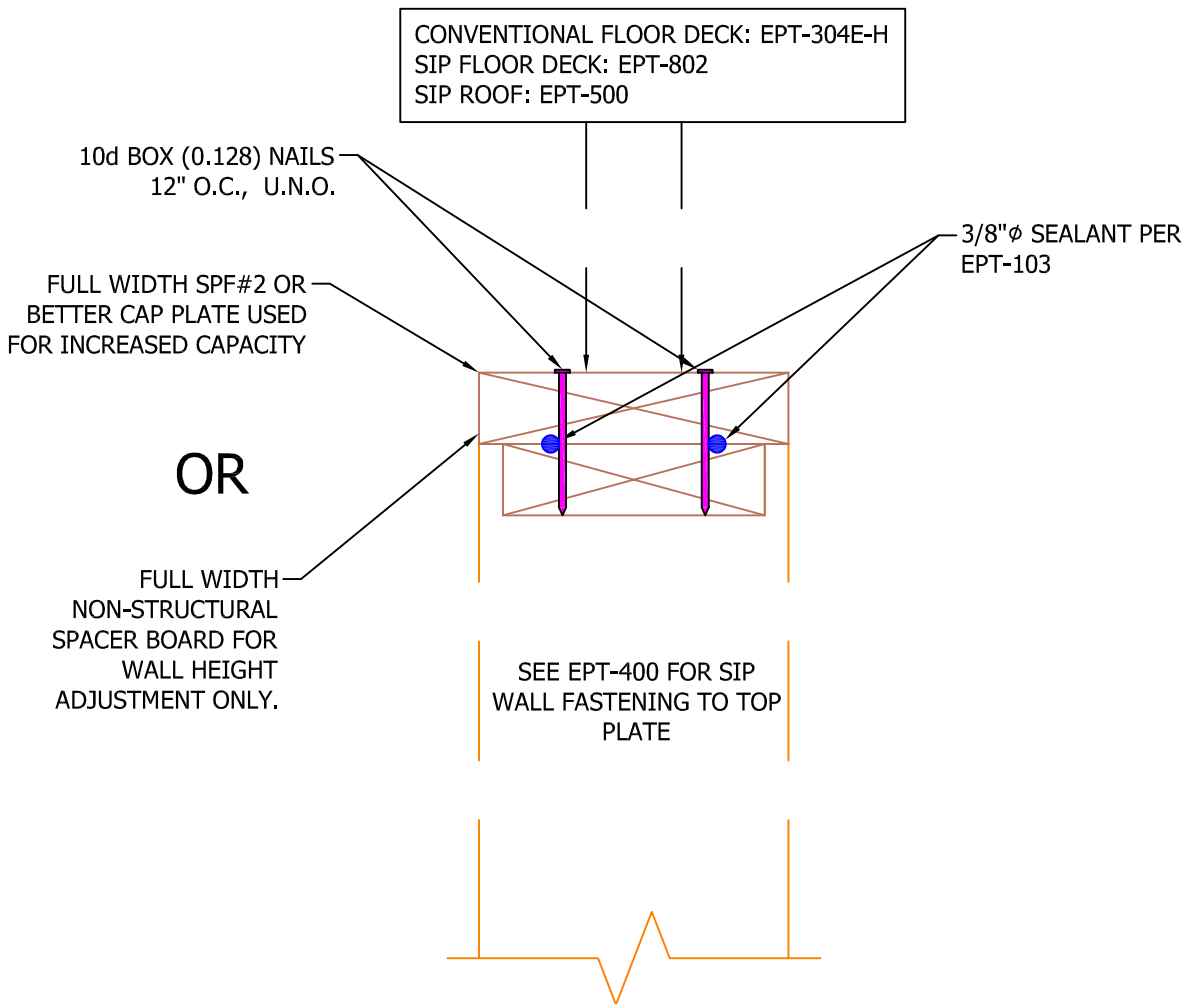
EPT -404

WALL ANGLED CORNER



NOTES:

1. FACINGS ARE THE LOAD BEARING COMPONENT IN A SIP. WIDTH OF ANY LUMBER INSTALLED TO TOP OF SIP WALL MUST BE FULL WIDTH OF SIP IN ORDER TO TRANSFER LOADS TO FACINGS.
2. CAP PLATE MAY BE USED TO INCREASE POINT LOAD CAPACITY AND/OR INCREASE WALL HEIGHT.
3. NON-STRUCTURAL SPACER MAY BE USED TO INCREASE WALL HEIGHT ONLY.



N.T.S.

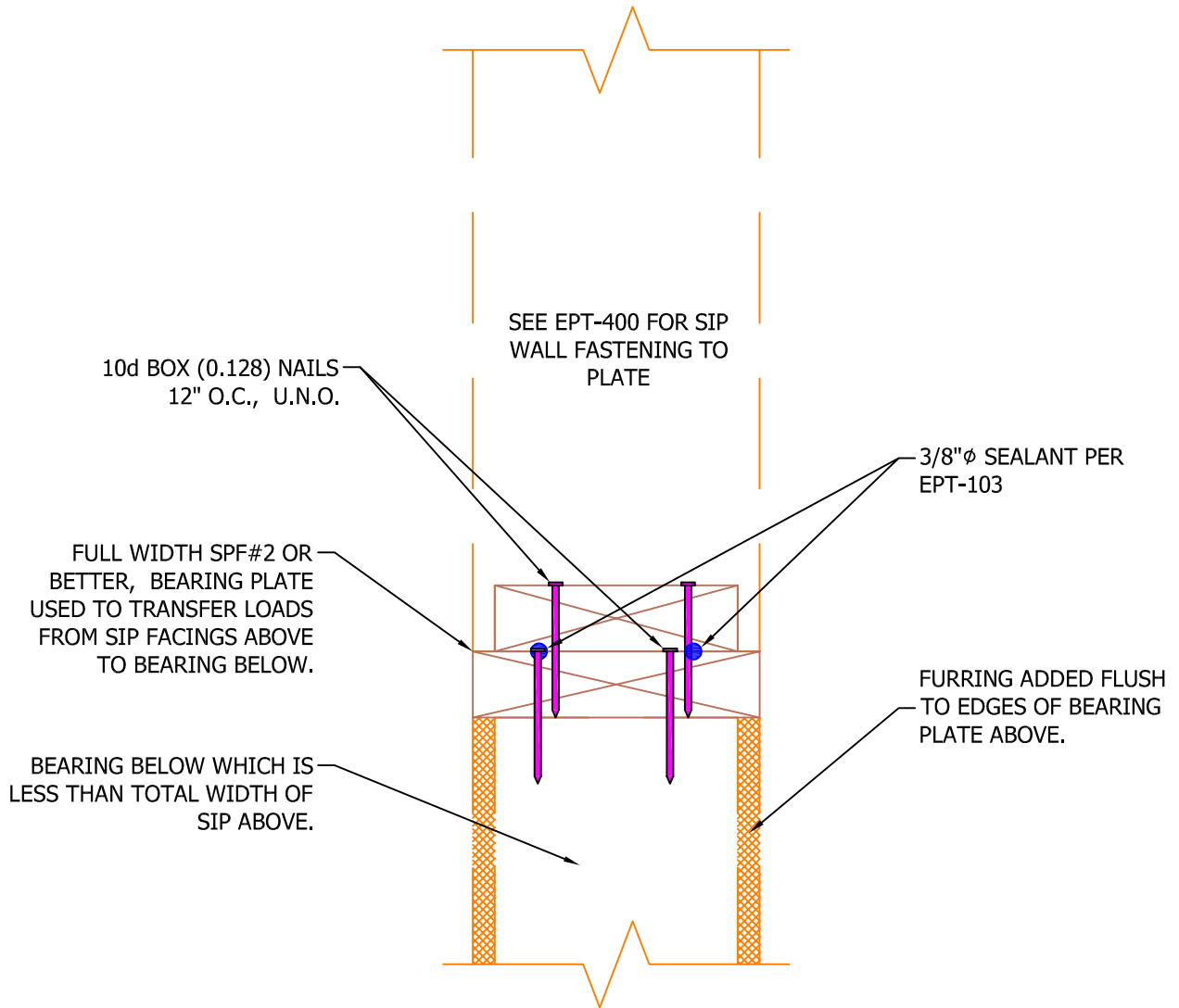
Rev: 7/21/2022

EPT -405

CAP PLATE CONNECTION

NOTE:

FACINGS ARE THE LOAD BEARING COMPONENT IN A SIP. WIDTH OF ANY LUMBER INSTALLED TO BOTTOM OF SIP WALL MUST BE FULL WIDTH OF SIP IN ORDER TO TRANSFER LOADS TO BEARING BELOW.



N.T.S.

Rev: 7/21/2022

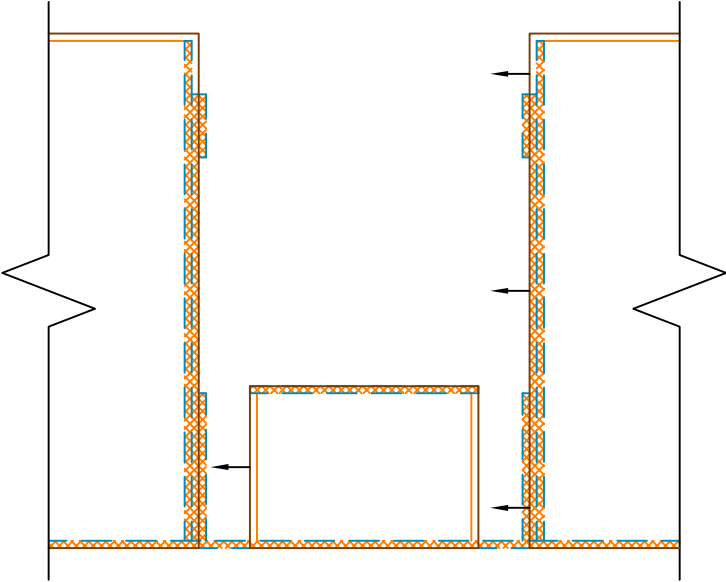
EPT -406

BEARING PLATE



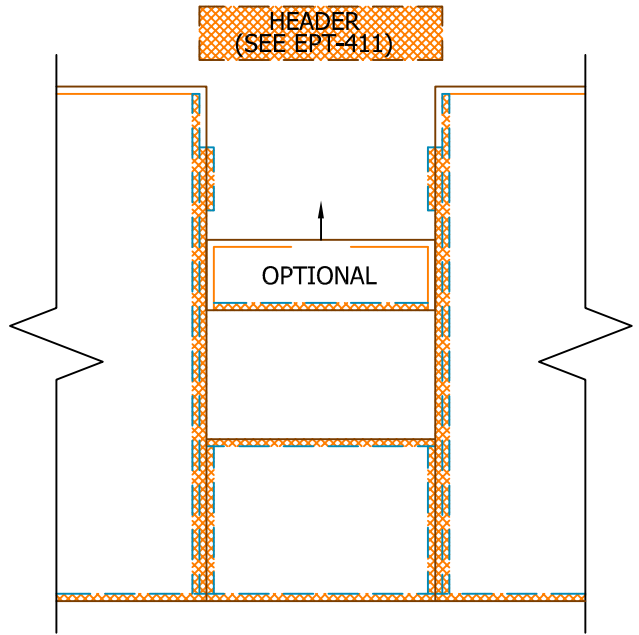
**STEP #1:**

1. PRE-DRILL ELECTRICAL CHASES PER EPT-106.
2. INSTALL KINGS, TRIMMERS, & NAILERS INTO SIP USING (2) 3/8" BEADS OF SEALANT PER EPT103 AT ALL INTERFACES (LUMBER TO LUMBER AND LUMBER TO SIP).
3. ASSEMBLE SIPS ON THE GROUND AND LIFT INTO PLACE OR ASSEMBLE VERTICALLY, ONE PIECE AT A TIME.



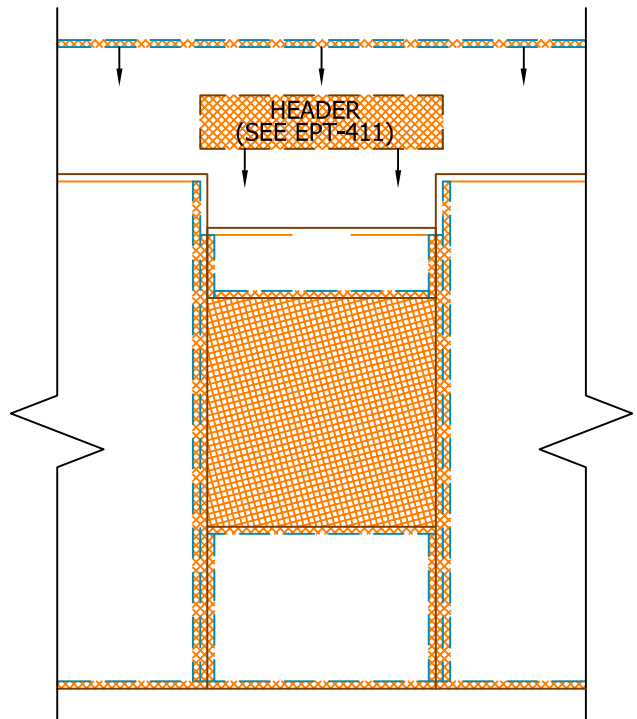
**STEP #2:**

1. DROP FILLER SIP FROM ABOVE OR BELOW 2x NAILER MEMBERS, WHICHEVER METHOD IS EASIEST.
2. CUT HEADER TO LENGTH FROM FACE OF KING TO FACE OF KING. (SEE EPT-411 FOR ASSEMBLIES).



**STEP #3:**

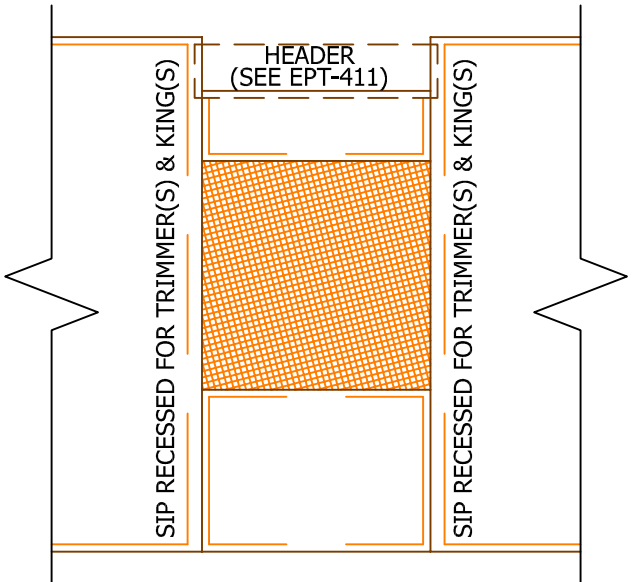
1. DROP IN HEADER FROM ABOVE.
2. INSTALL CONTINUOUS TOP PLATE ACROSS HEADER AND SIPS.



N.T.S.

**NOTES:**

1. ALL NAILING PER EPT-100S
2. FOAM EDGE OF SIPS WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.
3. FUR OUT EACH SIDE OF HEADER AFTER INSTALLATION.



Rev: 9/19/2022

EPT-407

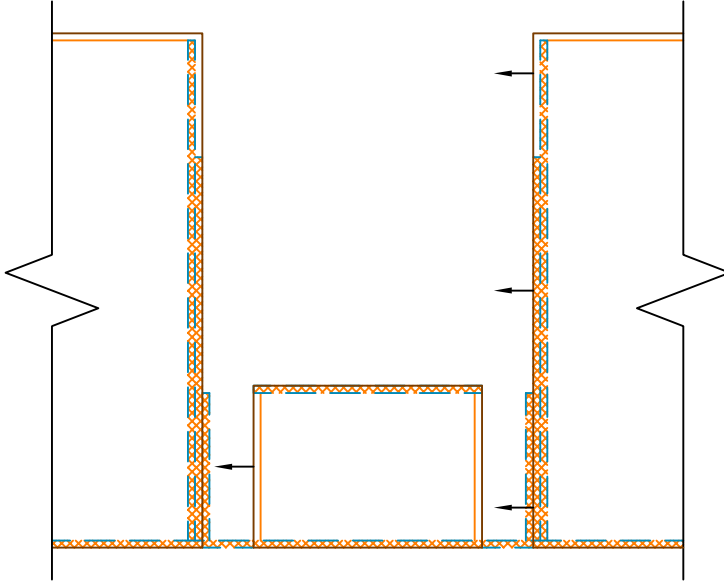
**HEADER AT TOP OF SIP WALL  
ASSEMBLY SEQUENCE**





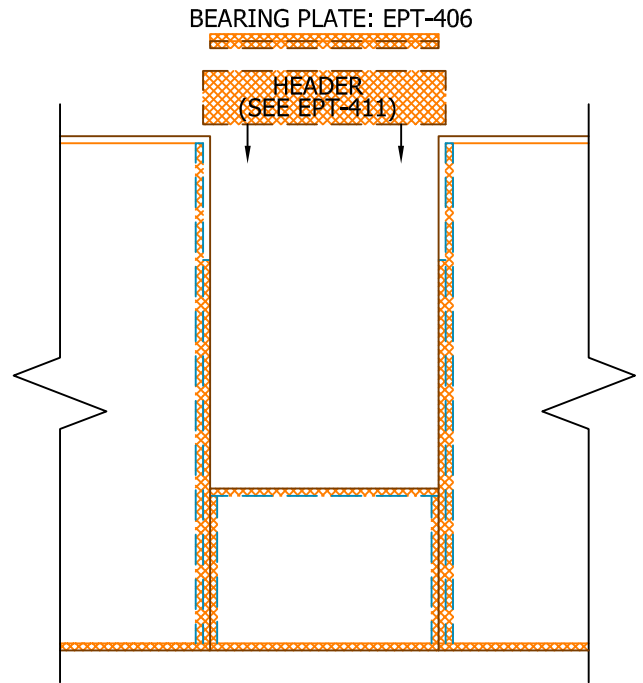
**STEP #1:**

1. PRE-DRILL ELECTRICAL CHASES PER EPT-106.
2. INSTALL KINGS, TRIMMERS, & NAILERS INTO SIP USING (2) 3/8" BEADS OF SEALANT PER EPT-103 AT ALL INTERFACES (LUMBER TO LUMBER AND LUMBER TO SIP).
3. ASSEMBLE SIPS ON THE GROUND AND LIFT INTO PLACE OR ASSEMBLE VERTICALLY, ONE PIECE AT A TIME.



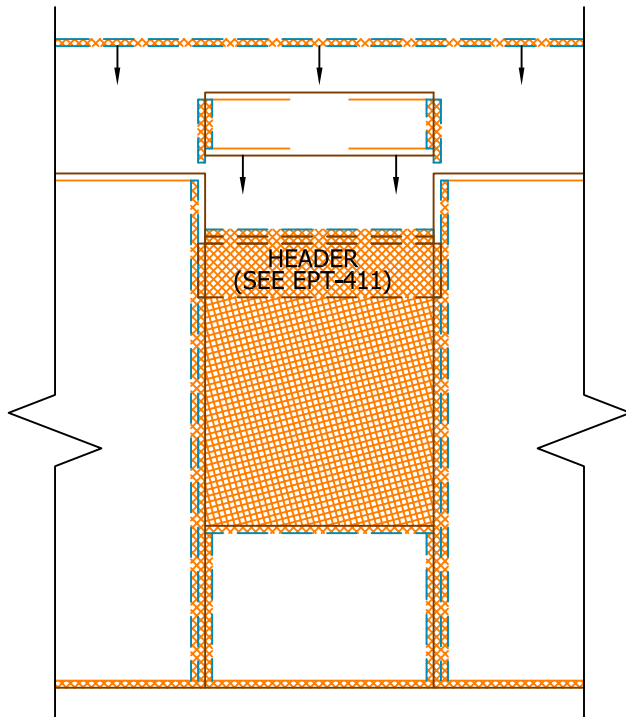
**STEP #2:**

1. CUT HEADER TO LENGTH FROM FACE OF KING TO FACE OF KING. (SEE EPT-411 FOR ASSEMBLIES).
2. DROP HEADER IN FROM ABOVE.
3. INSTALL ASSEMBLED BEARING PLATE TO TOP OF HEADER PER EPT-406.



**STEP #3:**

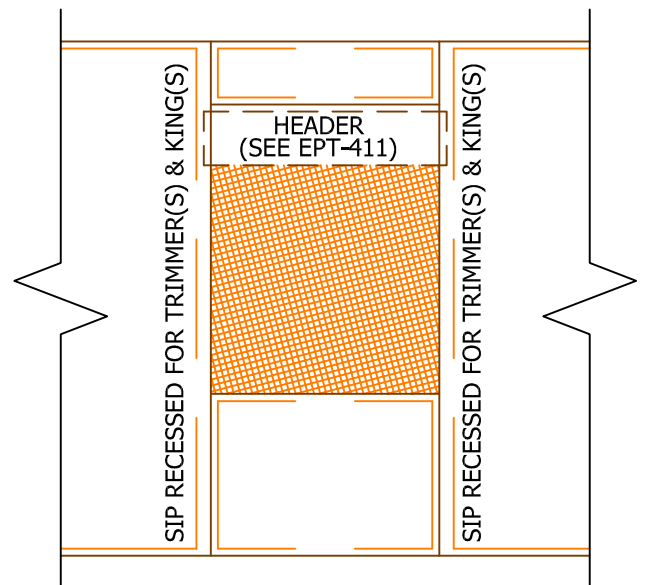
1. DROP FILLER SIP FROM ABOVE.
2. INSTALL CONTINUOUS TOP PLATE ACROSS SIP JOINTS.



N.T.S.

**NOTES:**

1. ALL NAILING PER EPT-100S
2. FOAM EDGE OF SIPS WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.
3. FUR OUT EACH SIDE OF HEADER AFTER INSTALLATION.



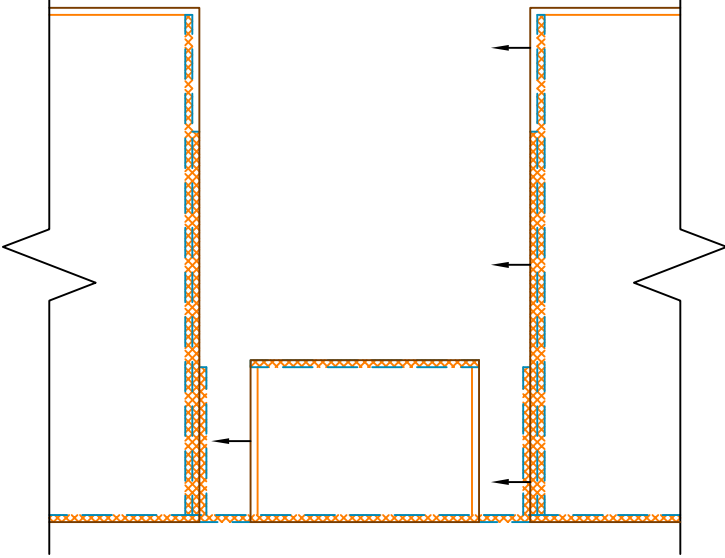
Rev: 9/19/2022

**EPT-408**

**HEADER AT TOP OF OPENING  
ASSEMBLY SEQUENCE**

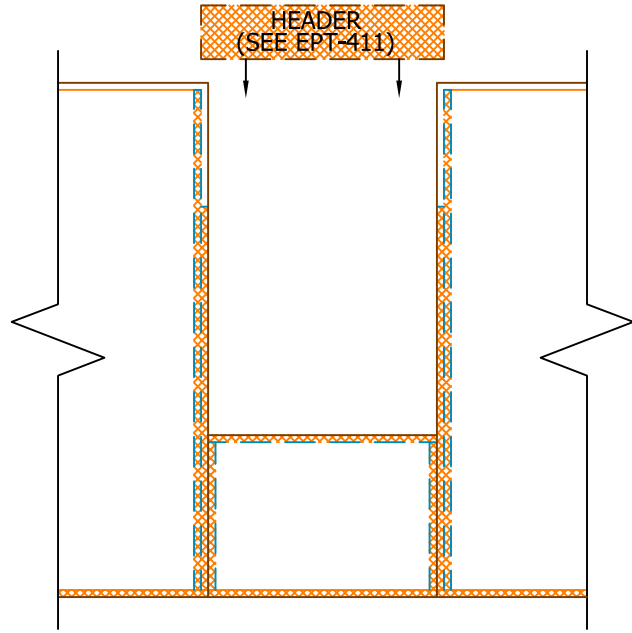
**STEP #1:**

1. PRE-DRILL ELECTRICAL CHASES PER EPT-106.
2. INSTALL KINGS, TRIMMERS, & NAILERS INTO SIP USING (2) 3/8" BEADS OF SEALANT PER EPT-103 AT ALL INTERFACES (LUMBER TO LUMBER AND LUMBER TO SIP).
3. ASSEMBLE SIPS ON THE GROUND AND LIFT INTO PLACE OR ASSEMBLE VERTICALLY, ONE PIECE AT A TIME.



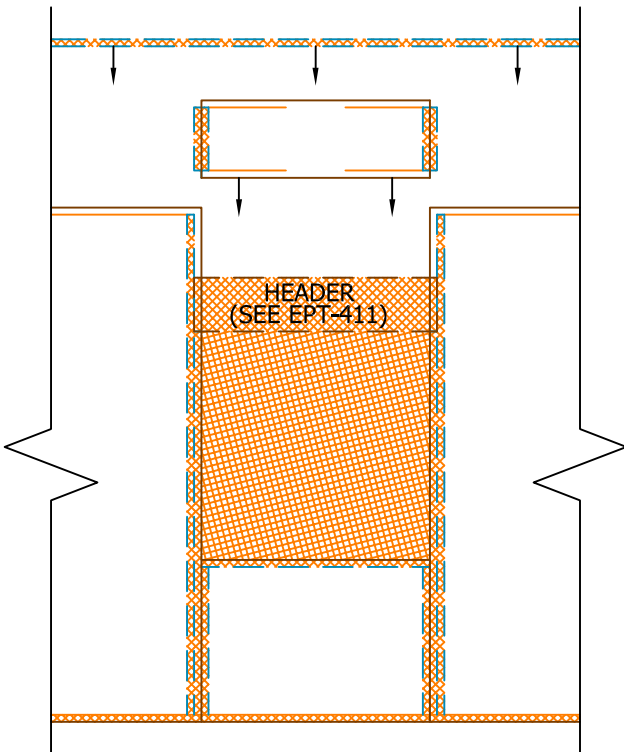
**STEP #2:**

1. CUT HEADER TO LENGTH FROM FACE OF KING TO FACE OF KING. (SEE EPT-411 FOR ASSEMBLIES).
2. DROP HEADER IN FROM ABOVE.



**STEP #3:**

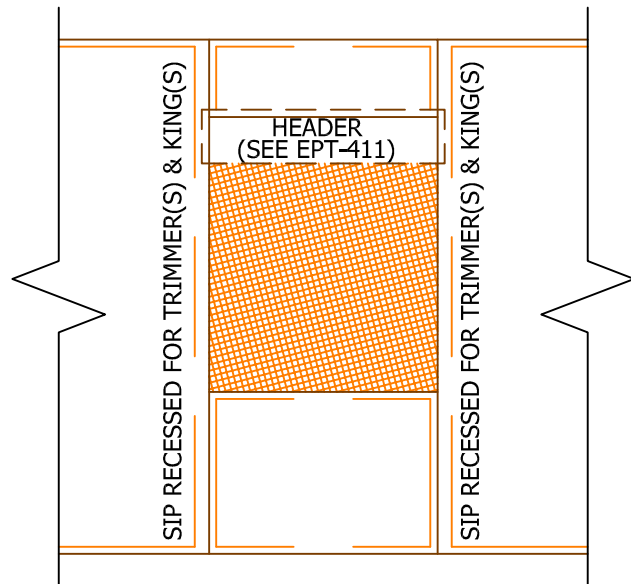
1. DROP FILLER SIP FROM ABOVE.
2. INSTALL CONTINUOUS TOP PLATE ACROSS SIP JOINTS.



N.T.S.

**NOTES:**

1. \*THIS DETAIL DOES NOT ALLOW FOR SIP FACING BEARING FOR SIP ABOVE HEADER PER EPT-406. LOADS MUST BE TRANSFERRED FROM FACING INTO HEADERS BY FACING NAILS ALONE. THIS CONDITION MUST BE ENGINEERED.
2. ALL NAILING PER EPT-100S
3. FOAM EDGE OF SIPS WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.
4. FUR OUT EACH SIDE OF HEADER AFTER INSTALLATION.



Rev: 9/19/2022

**EPT-409**

**HEADER AT TOP OF OPENING  
LIMITED BEARING\* ASSEM. SEQUENCE**

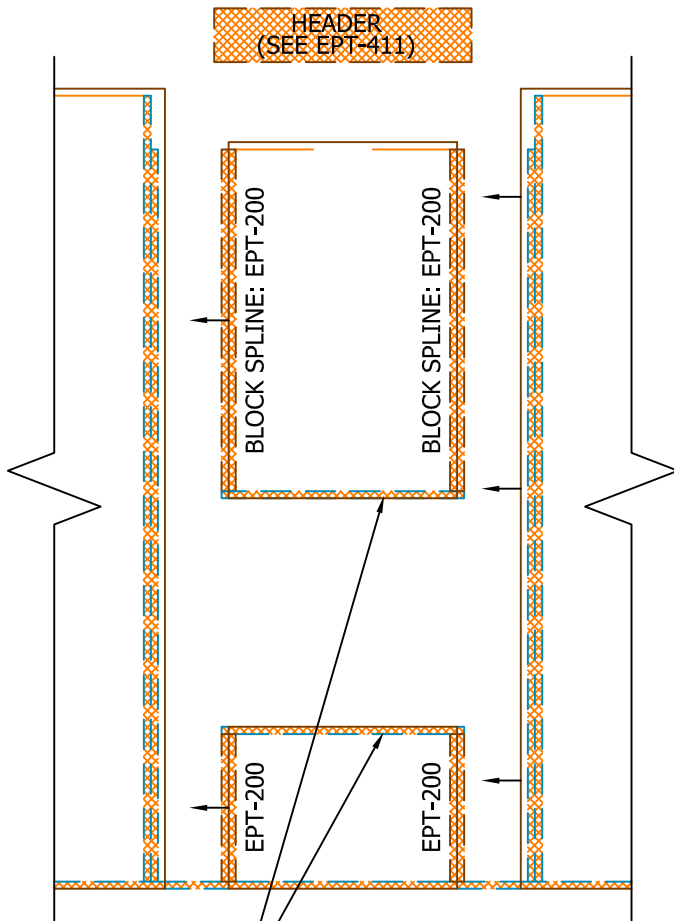


**NOTES:**

1. THIS DETAIL IS USEFUL IN SITUATIONS WHERE THE SILL AND FILLER SIPs ARE TALLER THAN THE OPENING BY REPLACING 2X NAILER LUMBER WITH BLOCK SPLINES, THEREBY REDUCING THERMAL BRIDGING.
2. ALL NAILING PER EPT-100S
3. USE (2) 3/8" BEADS OF SEALANT PER EPT-103 AT ALL INTERFACES (LUMBER TO LUMBER AND LUMBER TO SIP).
4. FOAM EDGE OF SIPs WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.
5. FUR OUT EACH SIDE OF HEADER AFTER INSTALLATION.

**STEP #1:**

1. PRE-DRILL ELECTRICAL CHASES PER EPT-106.
2. INSTALL KINGS & TRIMMERS INTO SIP SO THAT 1 1/2" OF OSB FACING REMAINS TO RECEIVE SILL AND FILLER SIPs.
3. INSTALL 2X TO TOP OF SILL AND BOTTOM OF FILLER SIP SO THAT 2X EXTENDS 1 1/2" PAST EDGE OF SIP FACING.
4. INSTALL BLOCK SPLINE IN VERTICAL EDGES OF SILL AND FILLER SIP SO THAT BLOCK SPLINE IS FLUSH TO FOAM.
5. ASSEMBLE SIPs ON THE GROUND AND LIFT INTO PLACE OR ASSEMBLE VERTICALLY, ONE PIECE AT A TIME.

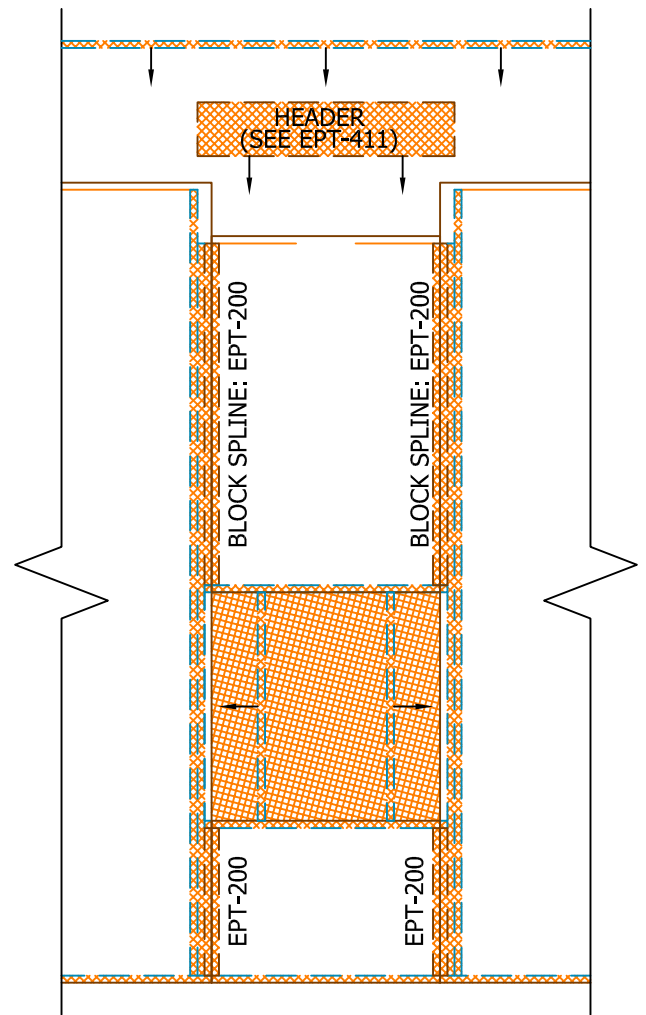


(1) CONTINUOUS  
2X EXTENDS PAST  
SIP FACINGS.

N.T.S.

**STEP #2:**

1. CUT HEADER TO LENGTH FROM FACE OF KING TO FACE OF KING. (SEE EPT-411 FOR ASSEMBLIES).
2. INSTALL TWO 2X WINDOW BUCK PIECES WITHIN VERTICAL EDGES OF ROUGH OPENING.
3. DROP IN HEADER FROM ABOVE.
4. INSTALL CONTINUOUS TOP PLATE ACROSS HEADER AND SIPs.

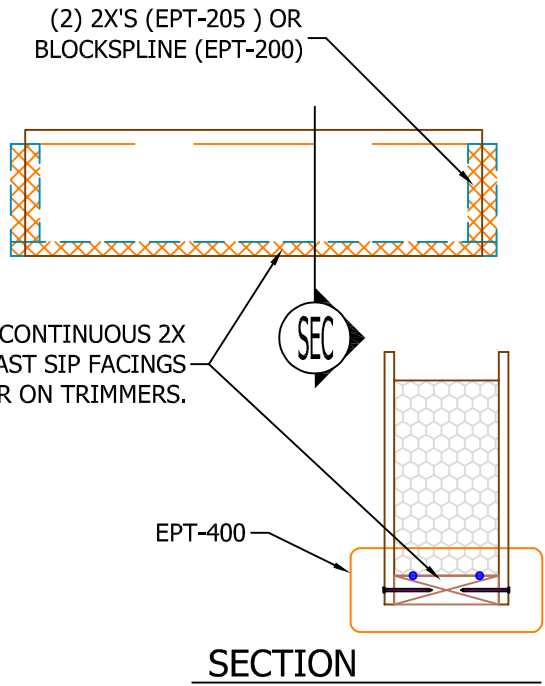


Rev: 9/19/2022

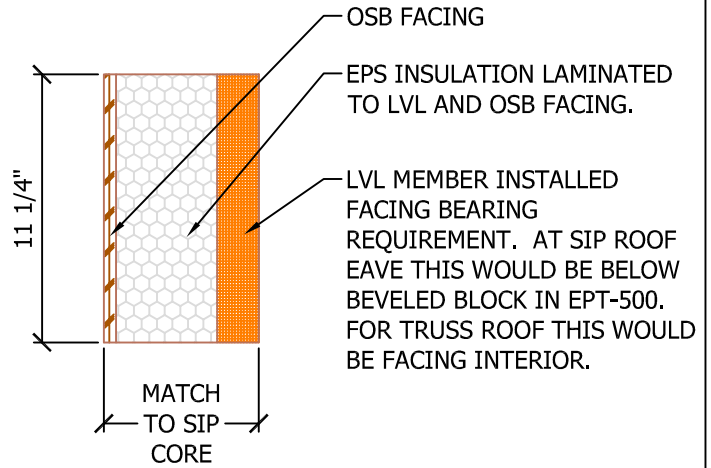
**EPT-410**

**HEADER AT TOP OF TALL SIP WALL  
ASSEMBLY SEQUENCE**

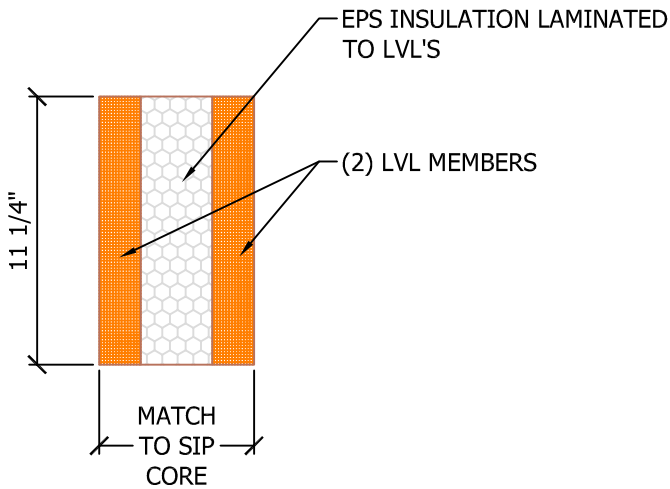
**SIP HEADER: SIP AS A STRUCTURAL HEADER.**  
SEE EPT-407 OR EPT-408 FOR ASSEMBLY SEQUENCE.



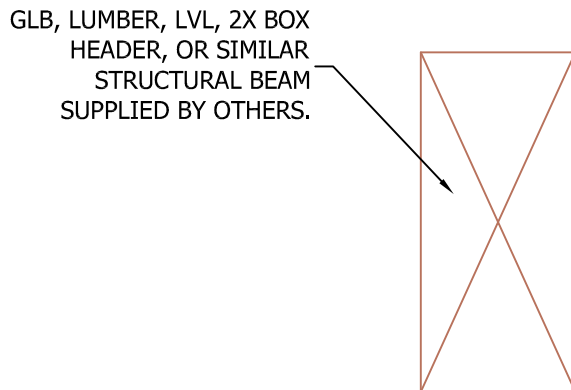
**IHDR-1 PLY: INSULATED HEADER (1) PLY LVL.**  
SEE EPT-407 OR EPT-408 FOR ASSEMBLY SEQUENCE.



**IHDR-2 PLY: INSULATED HEADER (2) PLY LVL.**  
SEE EPT-407 OR EPT-408 FOR ASSEMBLY SEQUENCE.



**HBO: HEADER BY OTHERS.**  
SEE EPT-407 OR EPT-408 FOR ASSEMBLY SEQUENCE.



N.T.S.

Rev: 12/10/2021

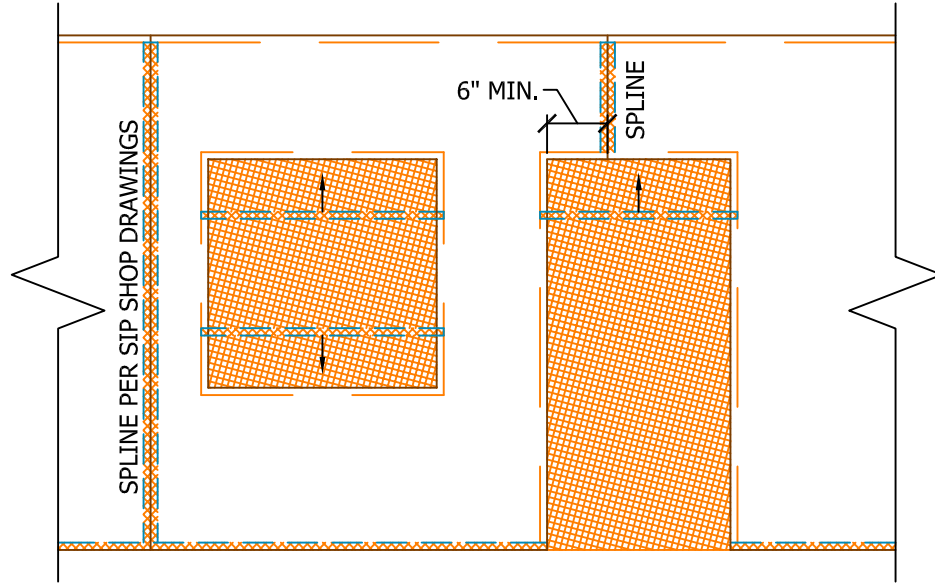
**EPT-411**

**HEADER ASSEMBLIES**

**NOTES:**

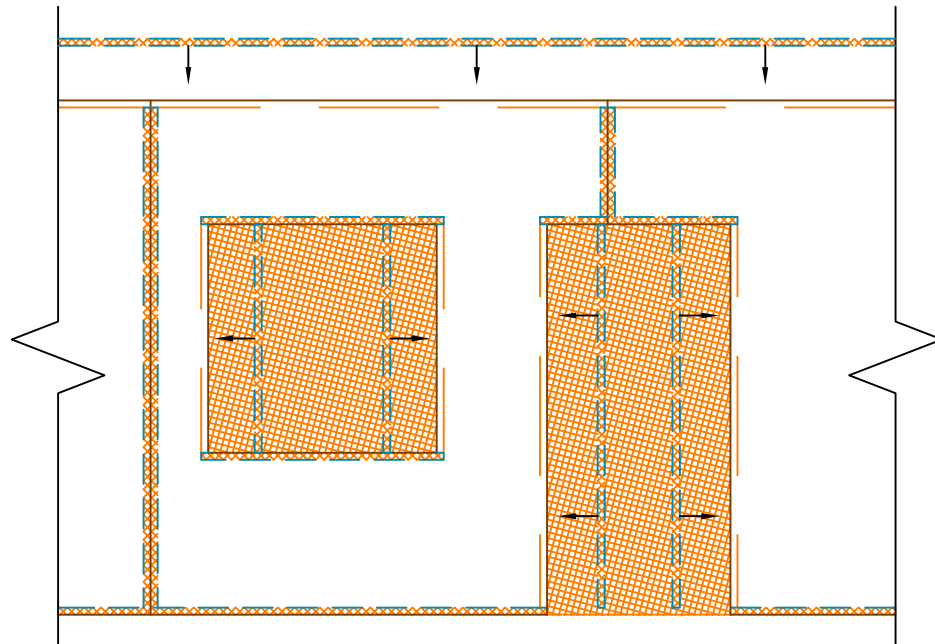
1. ALL NAILING PER EPT-100S
2. USE (2) 3/8" BEADS OF SEALANT PER EPT-103.
3. FOAM EDGE OF SIPS WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.

**STEP #1:**  
INSTALL OPENING TOP AND BOTTOM 2X MEMBERS FLUSH TO FOAM.



**STEP #2:**

1. PRE-DRILL ELECTRICAL CHASES PER EPT-106
2. INSTALL OPENING VERTICAL 2X MEMBERS FLUSH TO LUMBER PLATES AT TOP AND BOTTOM OF OPENING.
3. INSTALL CONTINUOUS TOP PLATE ACROSS SIP JOINTS.



N.T.S.

Rev: 8/11/2022

EPT-412

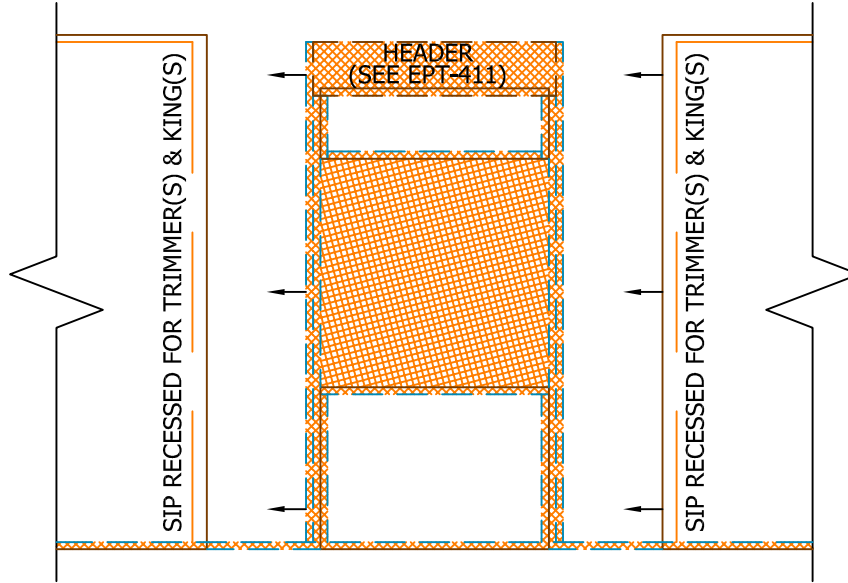
FACTORY CUT OPENINGS

**NOTES:**

1. ALL NAILING PER EPT-100S
2. USE (2) 3/8" BEADS OF SEALANT PER EPT-103 AT ALL INTERFACES (LUMBER TO LUMBER AND LUMBER TO SIP).
3. FOAM EDGE OF SIPS WILL BE RECESSED AT FACTORY TO RECEIVE LUMBER PER SIP SHOP DRAWINGS.

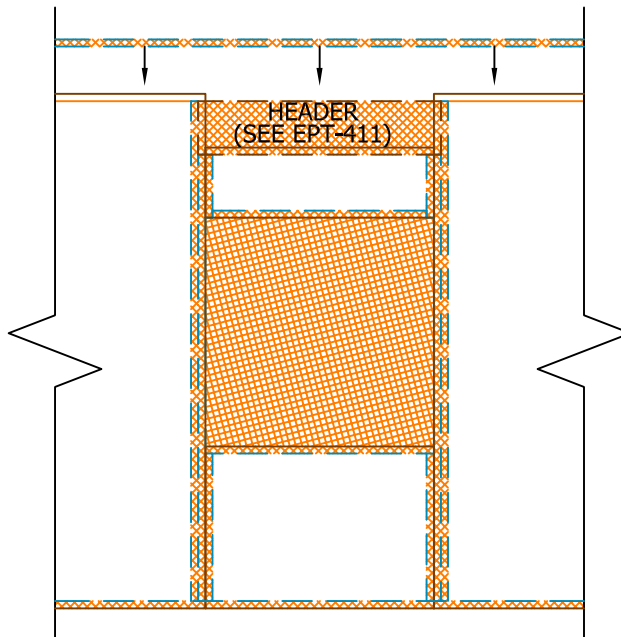
**STEP #1:**

1. ASSEMBLE KINGS, TRIMMERS, NAILERS, SILL, FILLER SIP, AND HEADER INTO ONE PIECE.
2. PRE-DRILL ELECTRICAL CHASES PER EPT-106.
3. INSTALL ASSEMBLY INTO ADJACENT SIPS.



**STEP #2:**

INSTALL CONTINUOUS TOP PLATE ACROSS SIP JOINTS.



N.T.S.

Rev: 9/19/2022

EPT-413

RTA OPENING  
ASSEMBLY SEQUENCE

2x NAILERS INSTALLED ON EACH SIDE, FLUSH TO END OF BEAM

RECESS EPS TO RECEIVE BEAM & NAILERS

FIELD CUT BEAM POCKET TO FACE OF SIP WHERE BEAM PENETRATES. LEAVE OPPOSITE FACE INTACT

SIP WALL

POST SPLINE PER PLAN

CS 16X24" OR LSTA24 STRAP ACROSS TOP OF BEAM

NAIL SIP FACING TO 2x NAILERS ON BOTH SIDERS OF SIP PER EPT-100S U.N.O.

2x TOP PLATES BUTT INTO NAILERS

N.T.S.

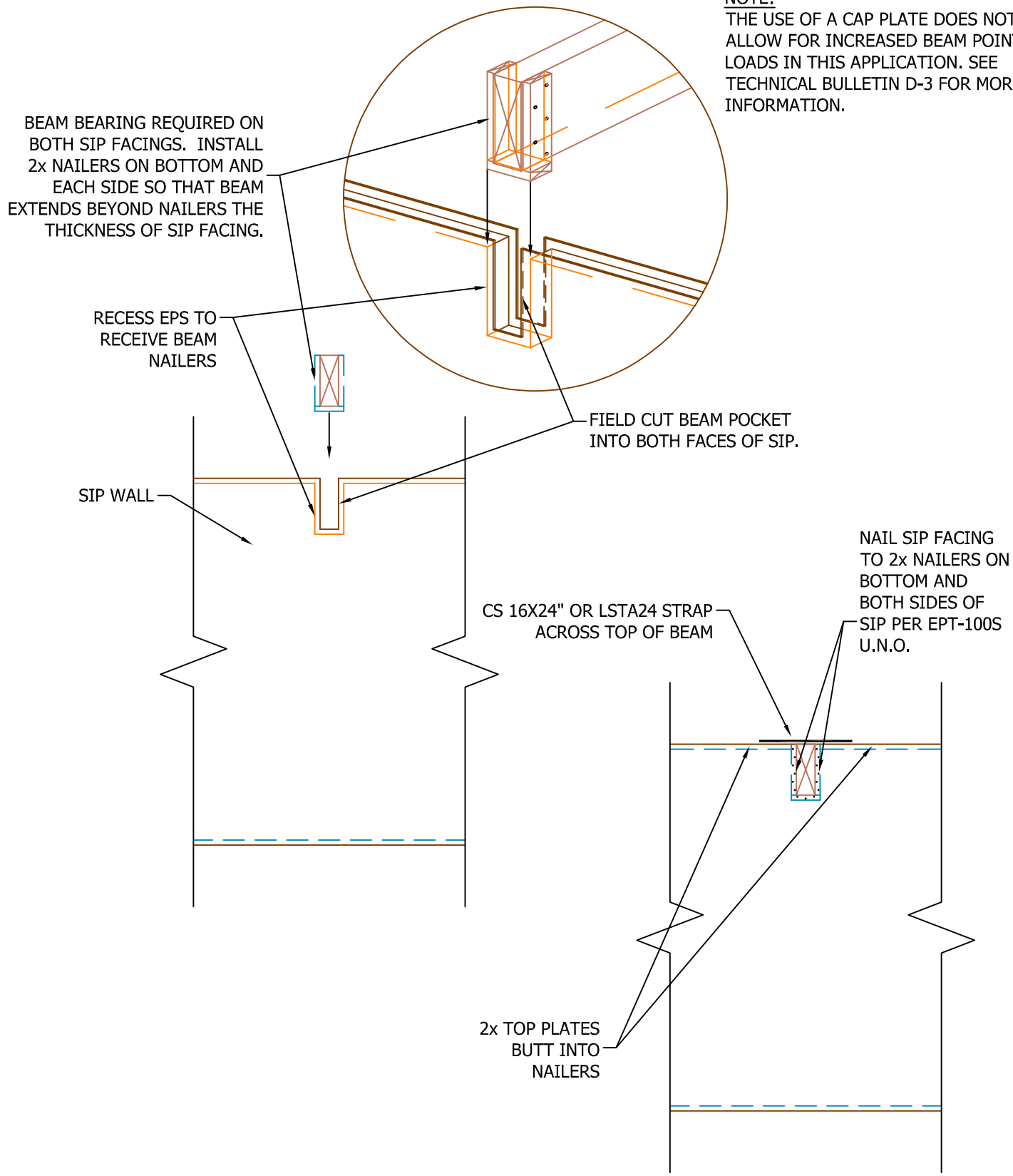
Rev: 9/19/2022

EPT-414

# SIP BEAM POCKET AT TOP OF WALL WITH POST



**NOTE:**  
 THE USE OF A CAP PLATE DOES NOT ALLOW FOR INCREASED BEAM POINT LOADS IN THIS APPLICATION. SEE TECHNICAL BULLETIN D-3 FOR MORE INFORMATION.



N.T.S.

Rev: 9/19/2022

EPT-415

SIP BEAM POCKET AT TOP OF WALL WITHOUT POST





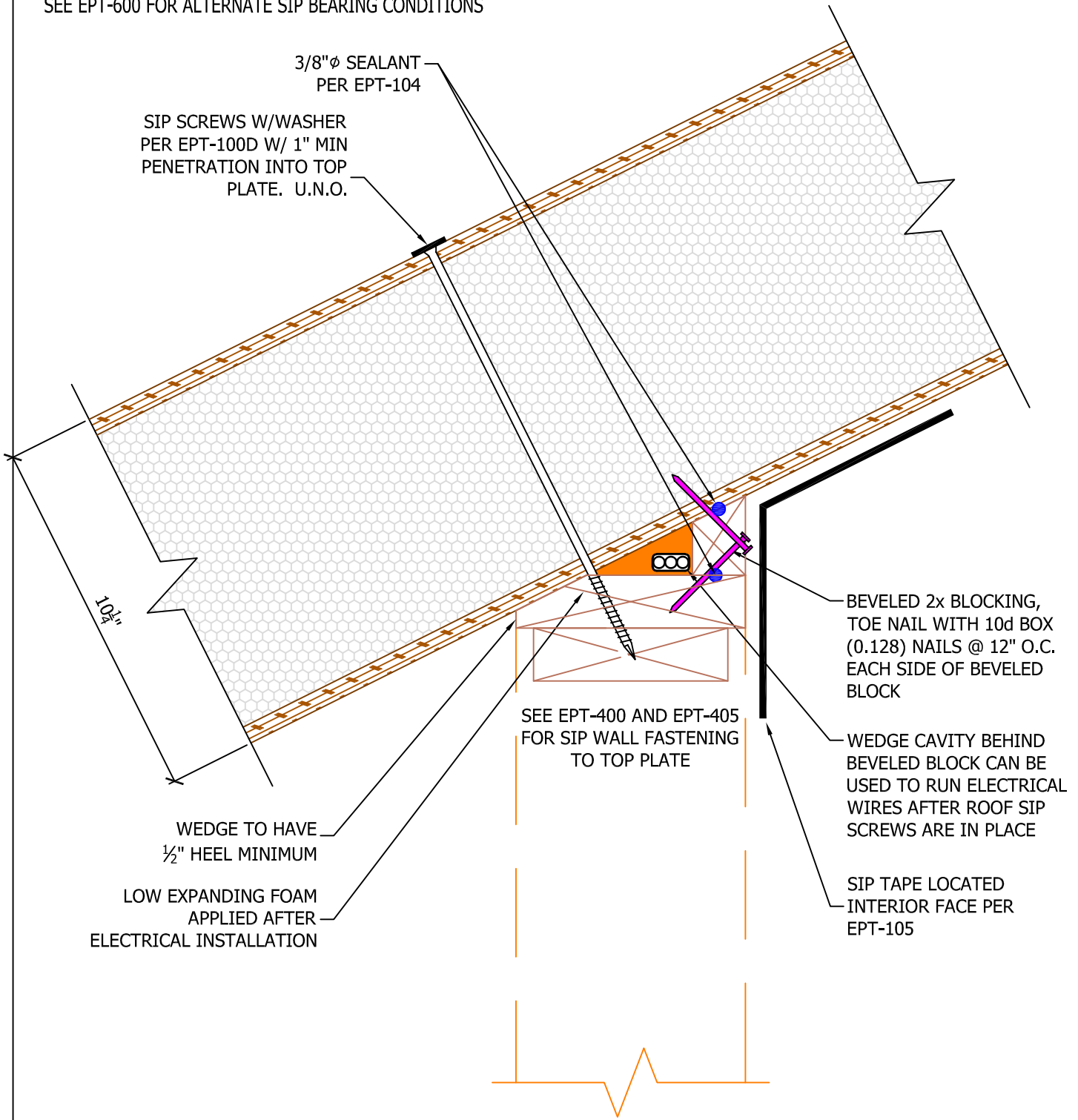
# 500 Series: Wall to Roof Connection



**EXTREME PANEL  
TECHNOLOGIES**



**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



3/8"  $\phi$  SEALANT  
PER EPT-104

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO TOP  
PLATE. U.N.O.

10 1/2"

WEDGE TO HAVE  
1/2" HEEL MINIMUM

LOW EXPANDING FOAM  
APPLIED AFTER  
ELECTRICAL INSTALLATION

SEE EPT-400 AND EPT-405  
FOR SIP WALL FASTENING  
TO TOP PLATE

BEVELED 2x BLOCKING,  
TOE NAIL WITH 10d BOX  
(0.128) NAILS @ 12" O.C.  
EACH SIDE OF BEVELED  
BLOCK

WEDGE CAVITY BEHIND  
BEVELED BLOCK CAN BE  
USED TO RUN ELECTRICAL  
WIRES AFTER ROOF SIP  
SCREWS ARE IN PLACE

SIP TAPE LOCATED  
INTERIOR FACE PER  
EPT-105

N.T.S.

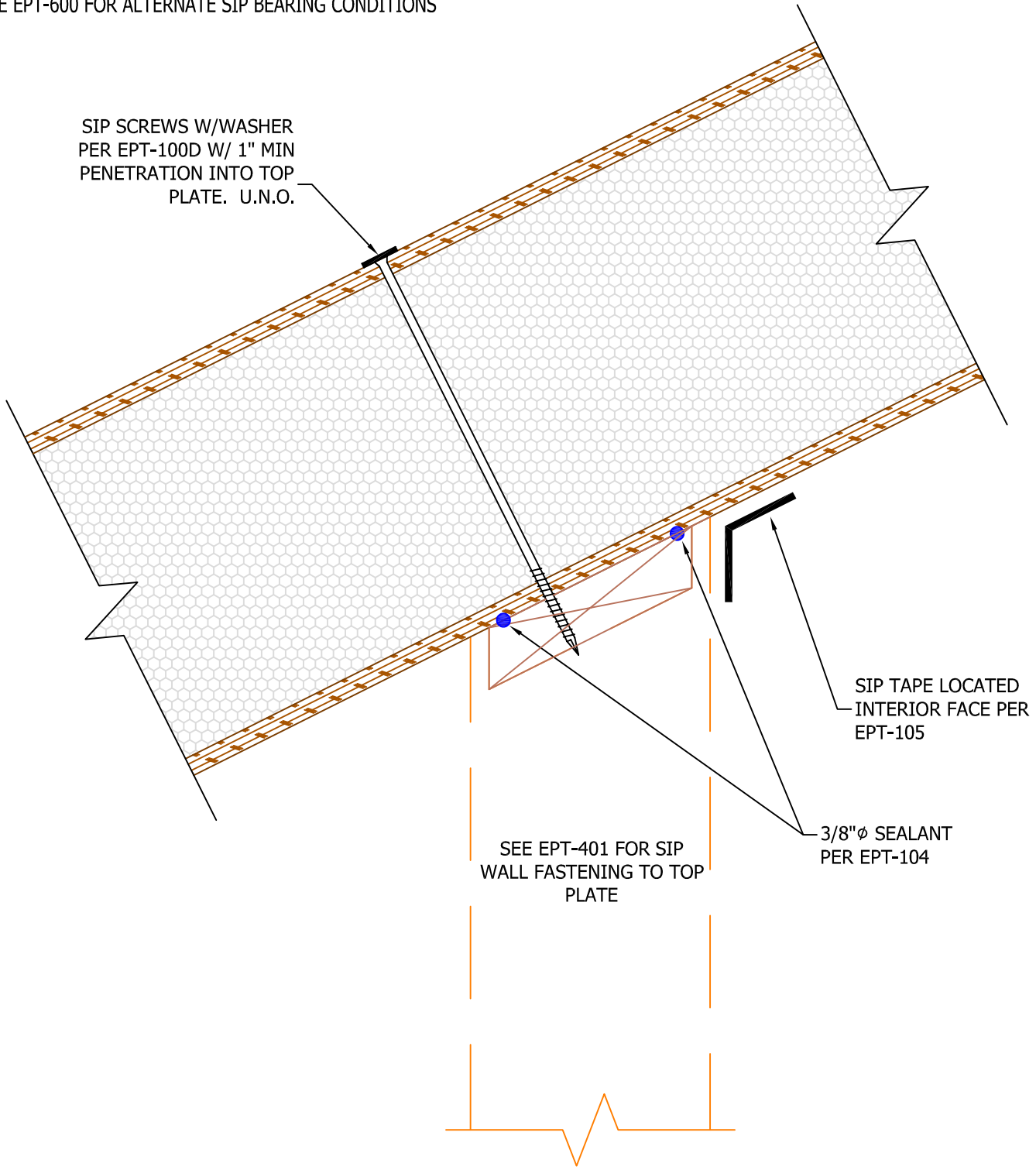
Rev: 9/19/2022

EPT-500

SIP WALL TO ROOF  
BEVELED BLOCK



**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

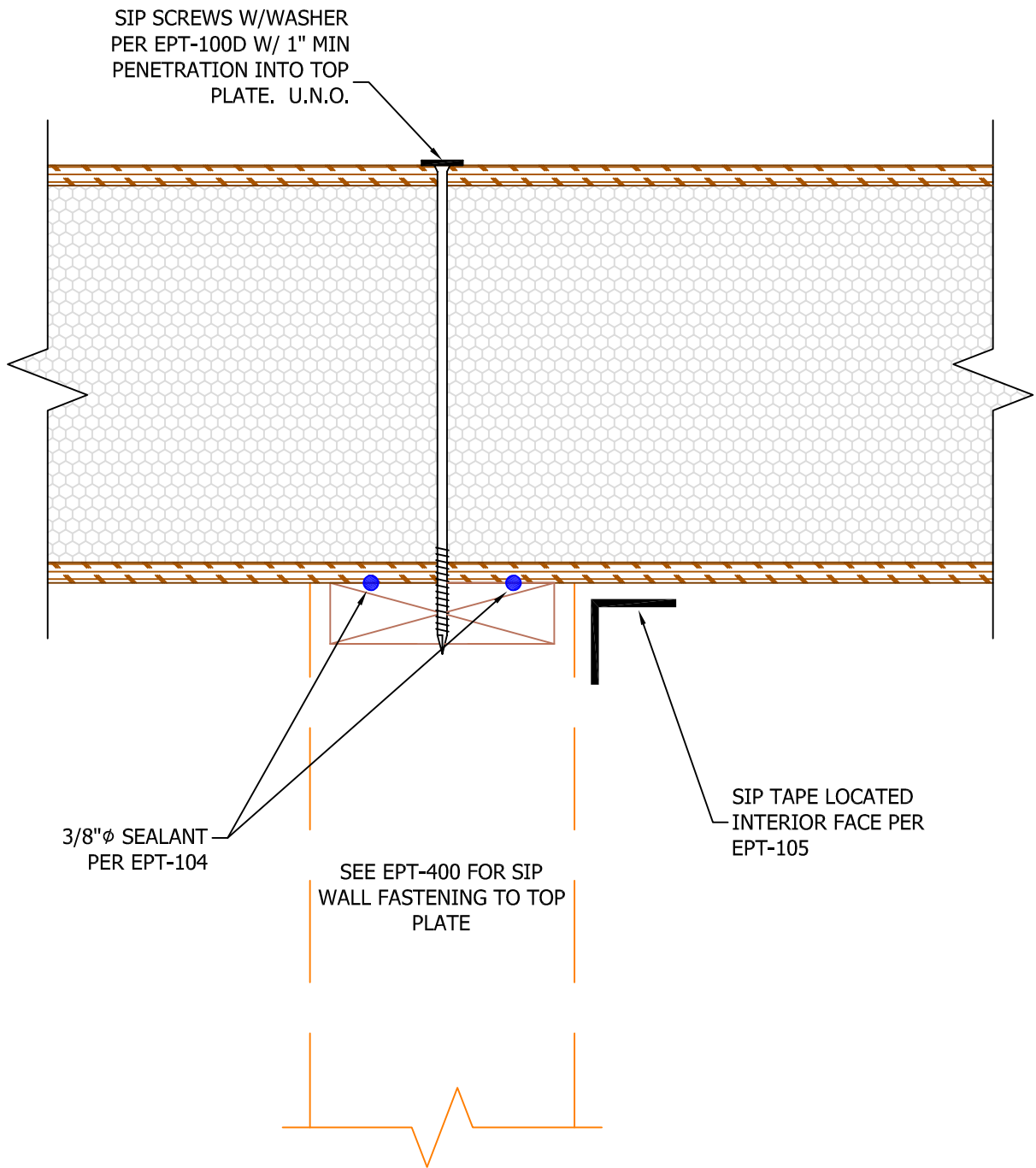
Rev: 5/24/2022

EPT-501

SIP WALL TO ROOF  
BEVELED TOP OF WALL



NOTE:  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

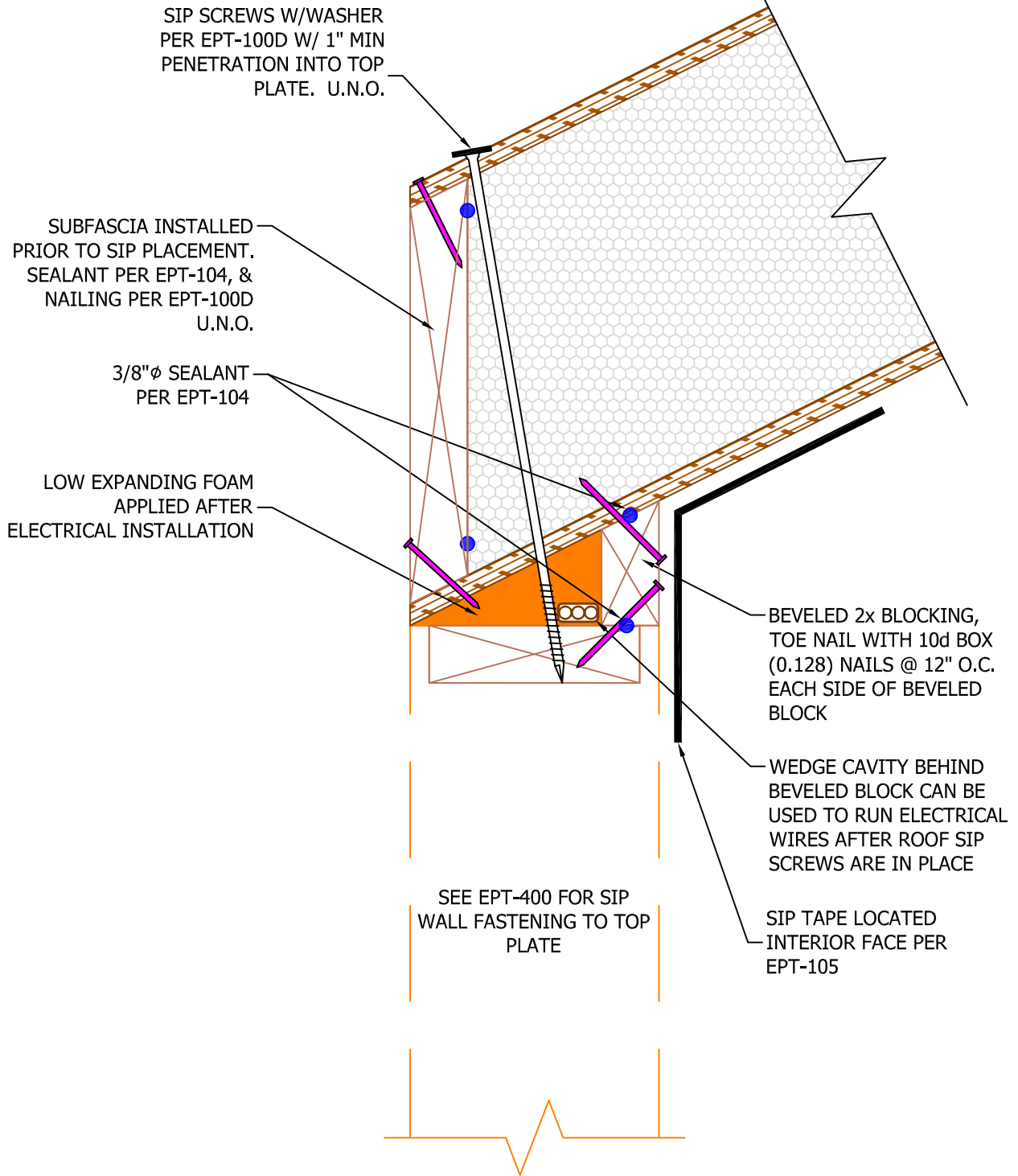
Rev: 5/24/2022

EPT -502

SIP WALL TO ROOF  
GABLE OVERHANG



**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

Rev: 9/19/2022

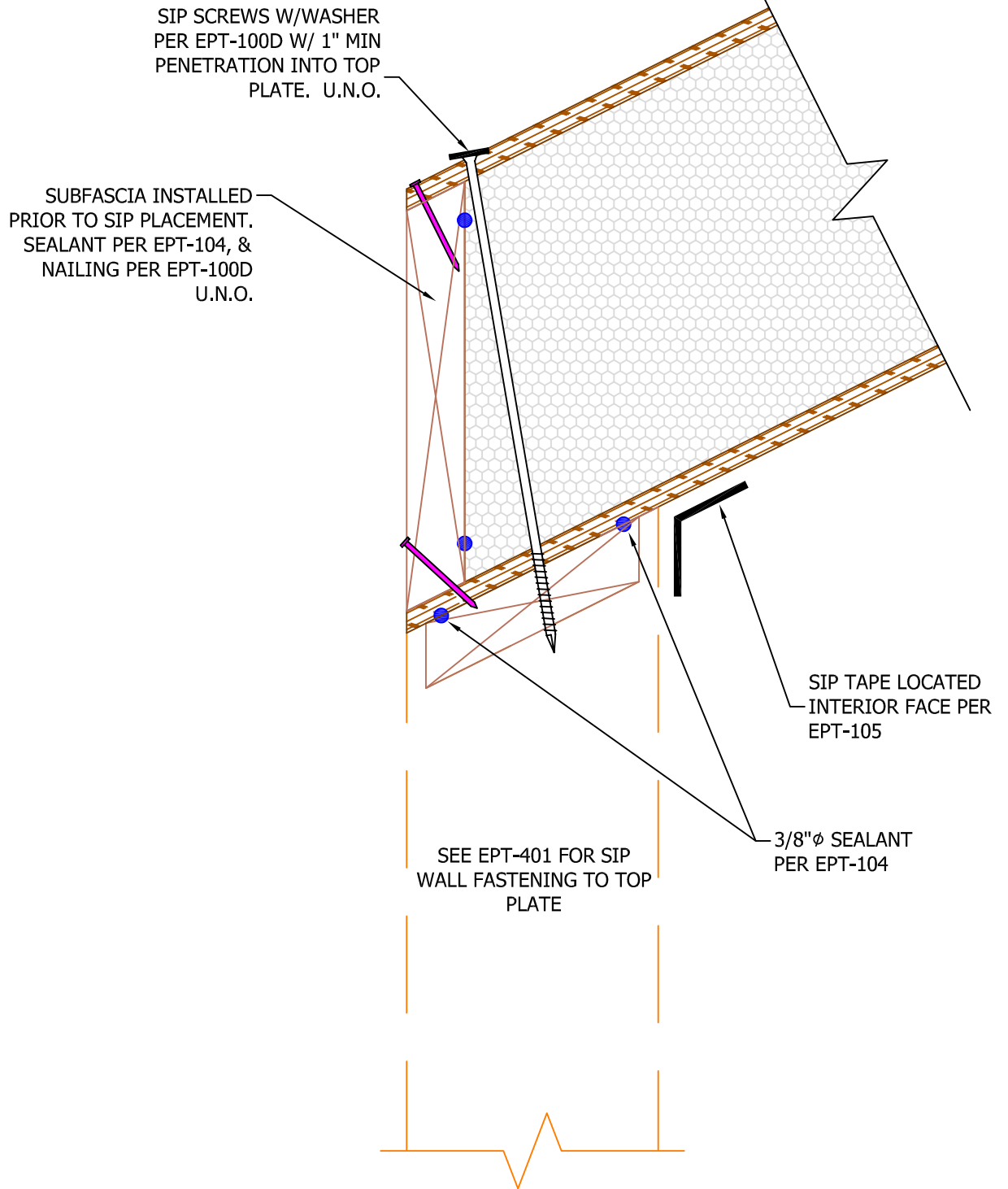
EPT -503

SIP WALL TO ROOF, NO OVERHANG  
BEVELED BLOCK



**NOTE:**

SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

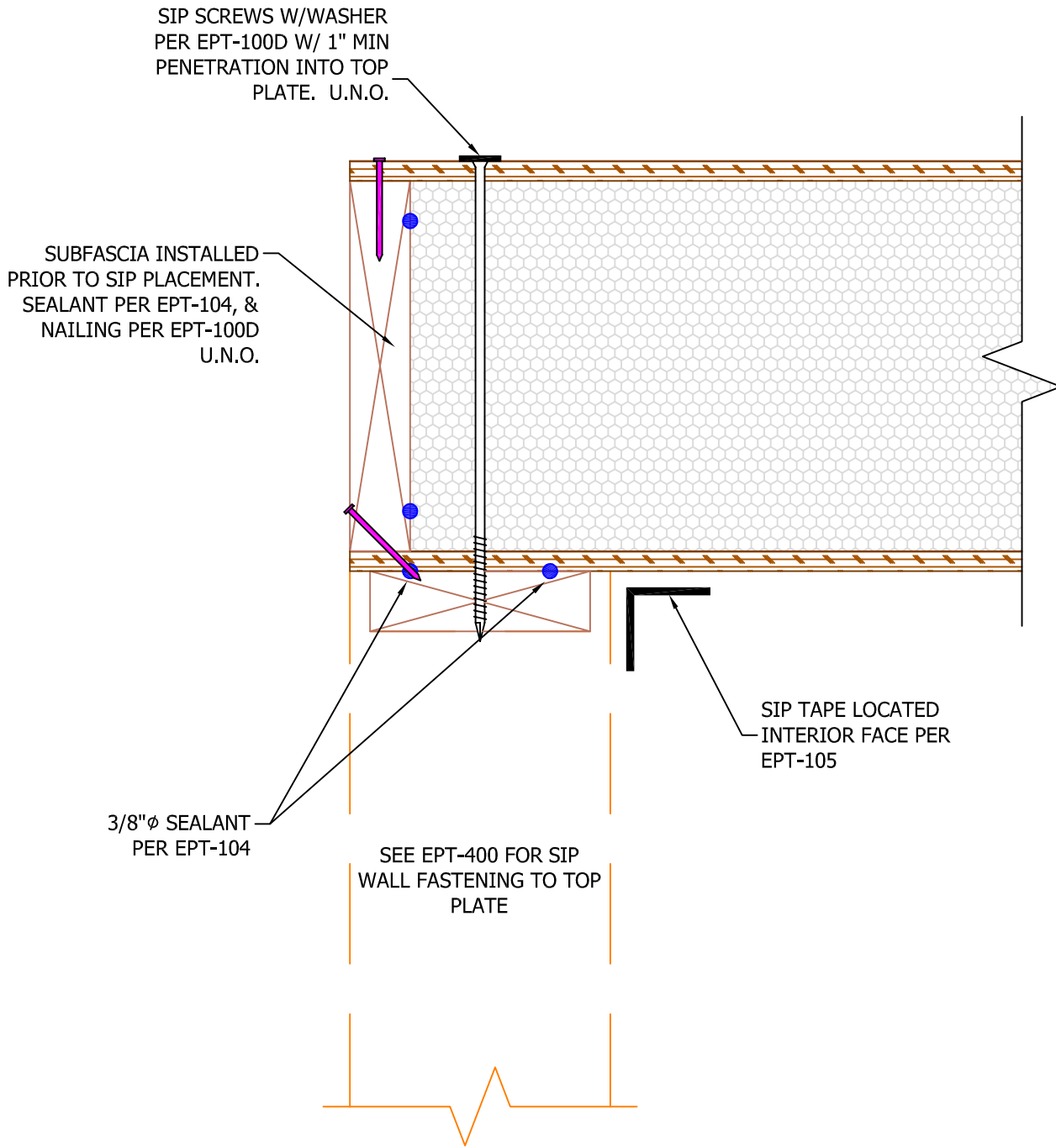
Rev: 7/19/2022

EPT-504

SIP WALL TO ROOF, NO OVERHANG  
BEVELED TOP OF WALL



NOTE:  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

Rev: 7/19/2022

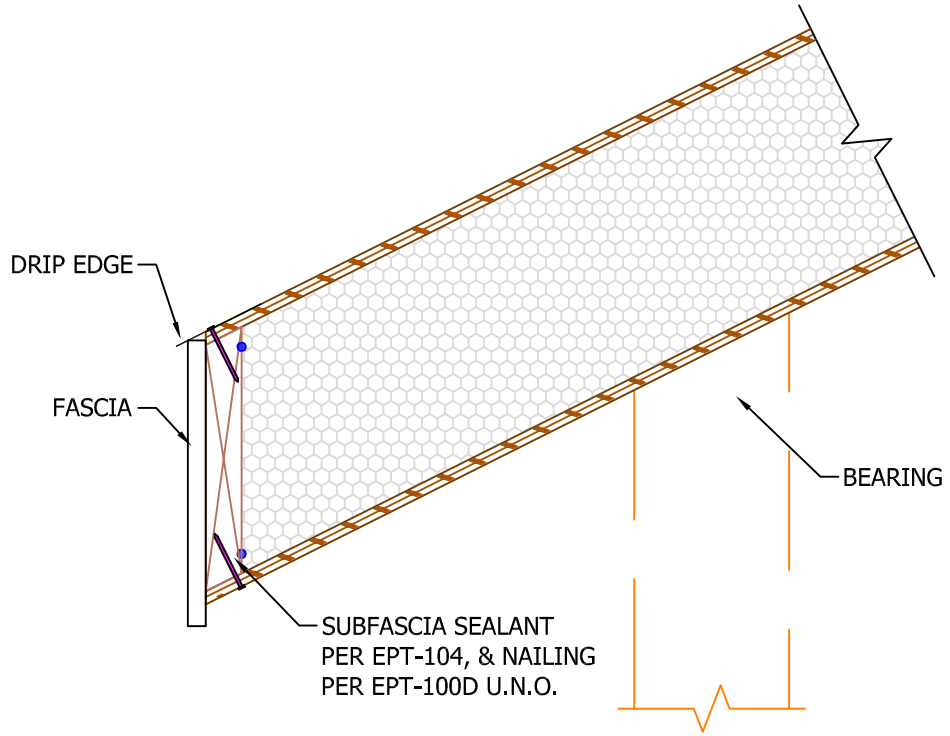
EPT-505

SIP WALL TO ROOF GABLE  
NO OVERHANG

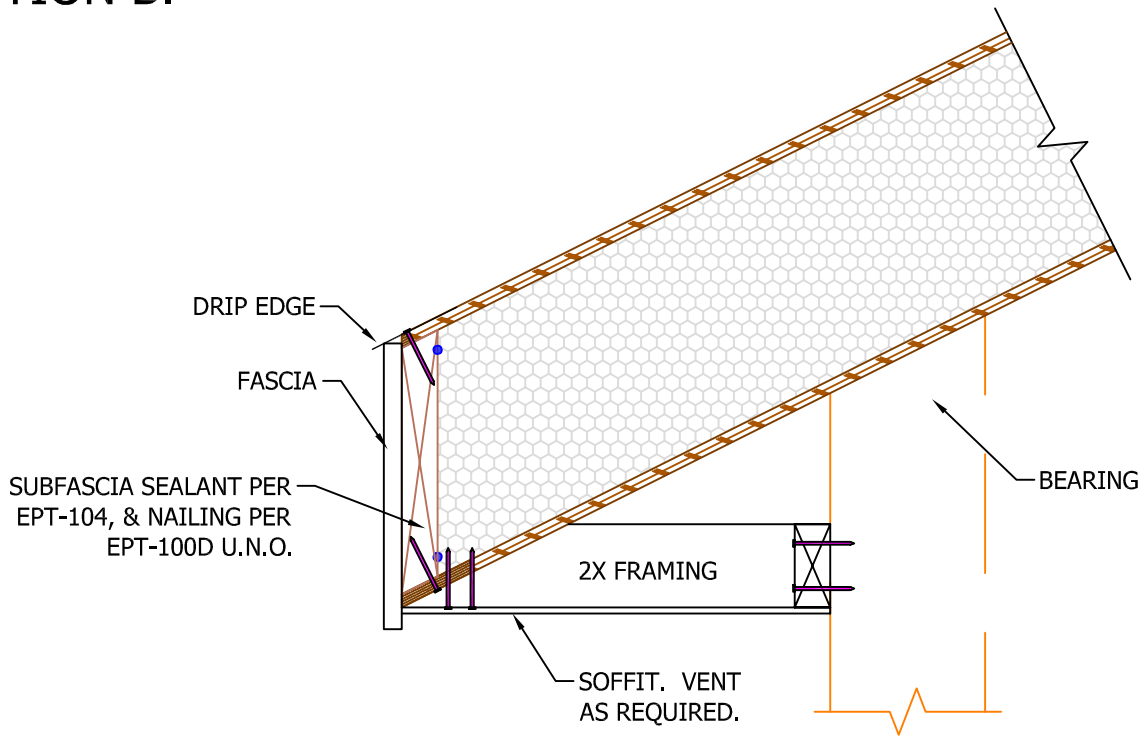




# OPTION A:



# OPTION B:



N.T.S.

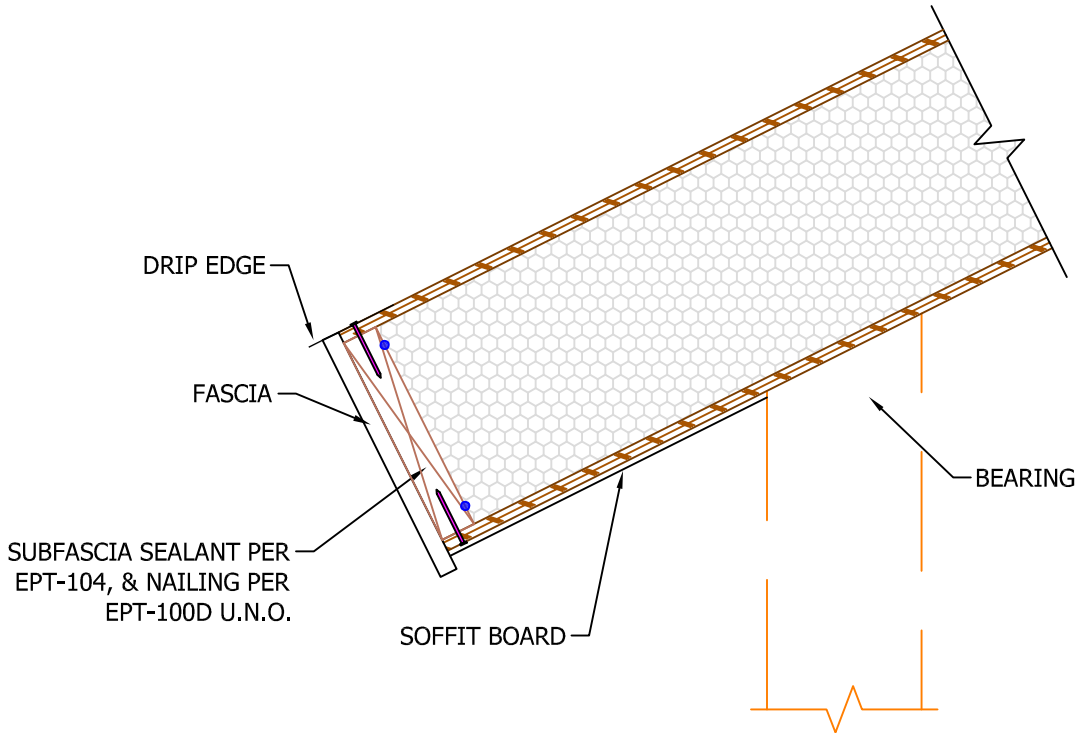
Rev: 9/19/2022

EPT-506

SIP EAVE  
PLUMB CUT SIP

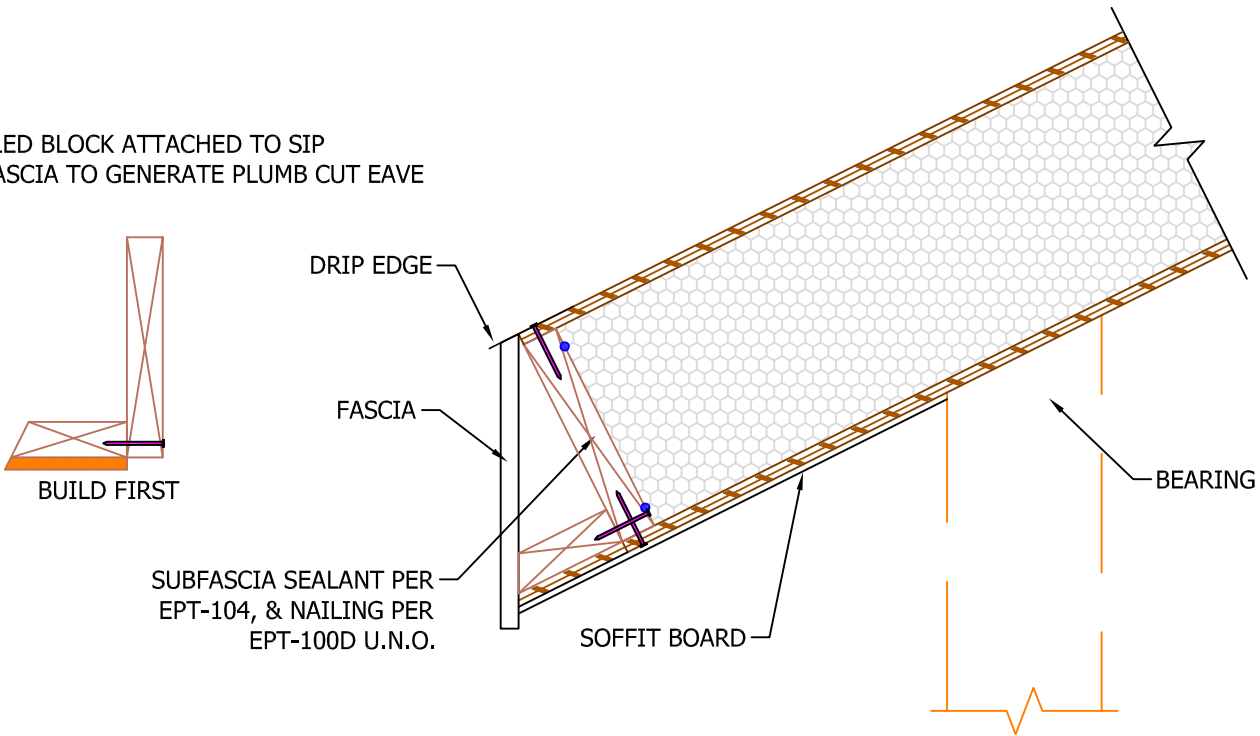


# OPTION A:



# OPTION B:

BEVELED BLOCK ATTACHED TO SIP SUBFASCIA TO GENERATE PLUMB CUT EAVE



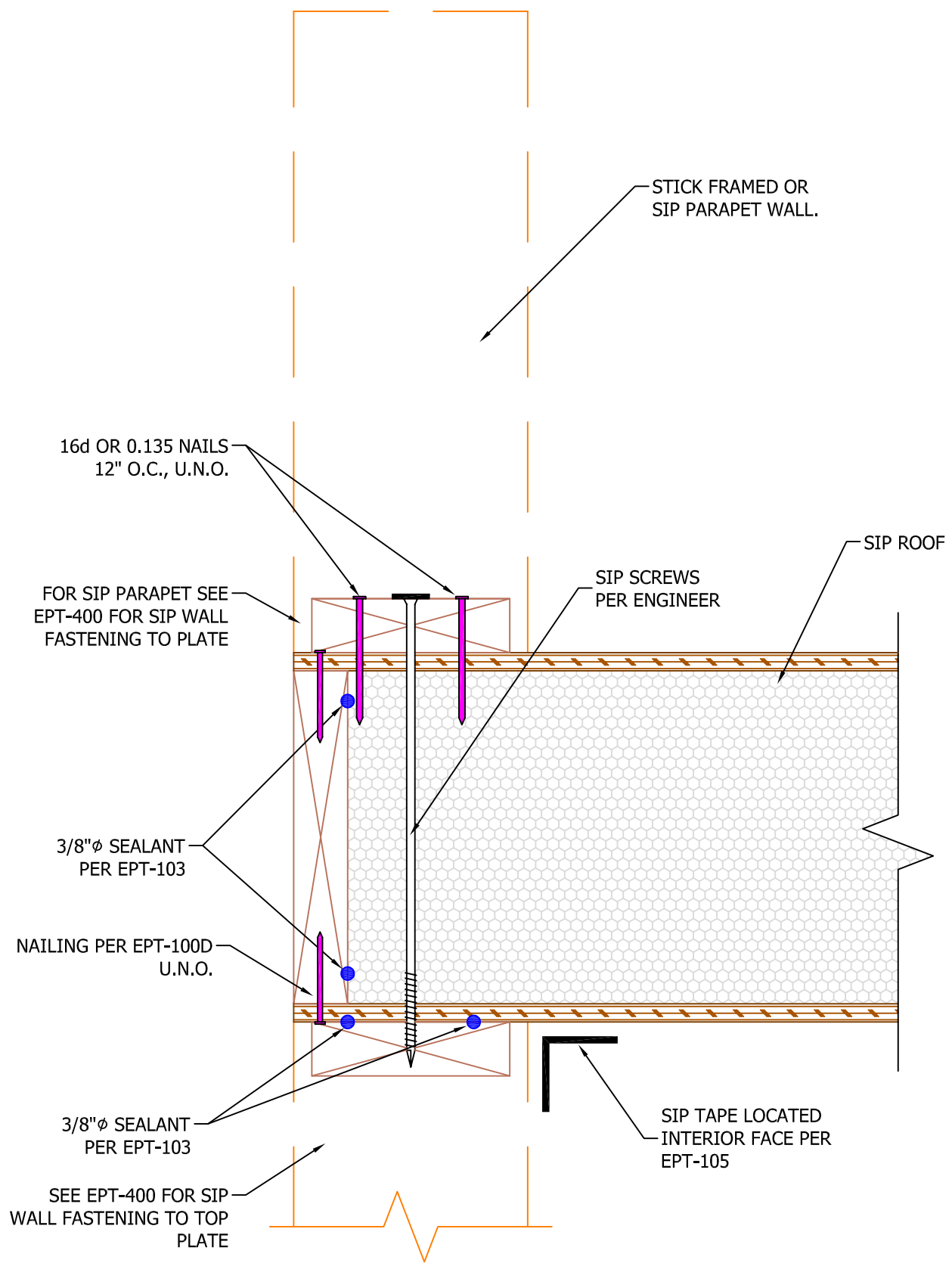
N.T.S.

Rev: 2/16/2023

EPT-507

SIP EAVE  
SQUARE CUT SIP





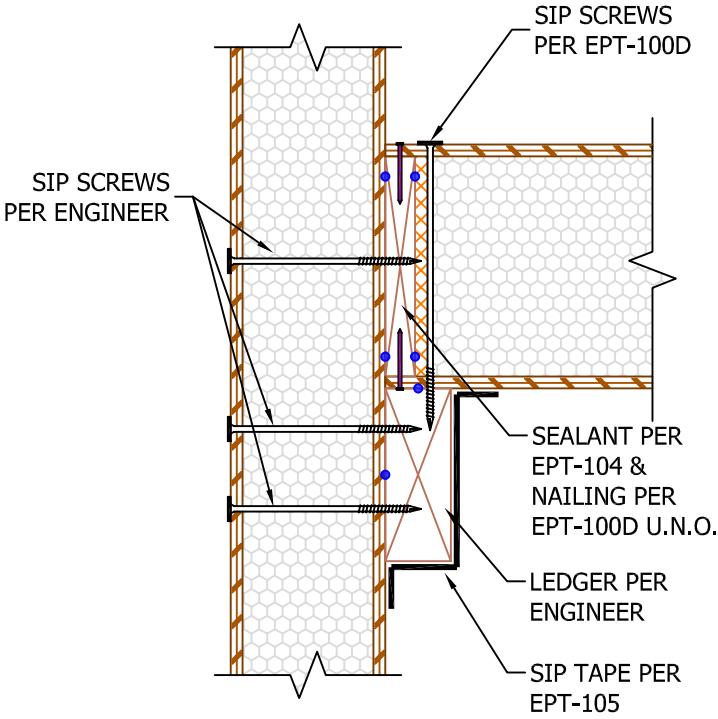
N.T.S.

Rev: 5/24/2022

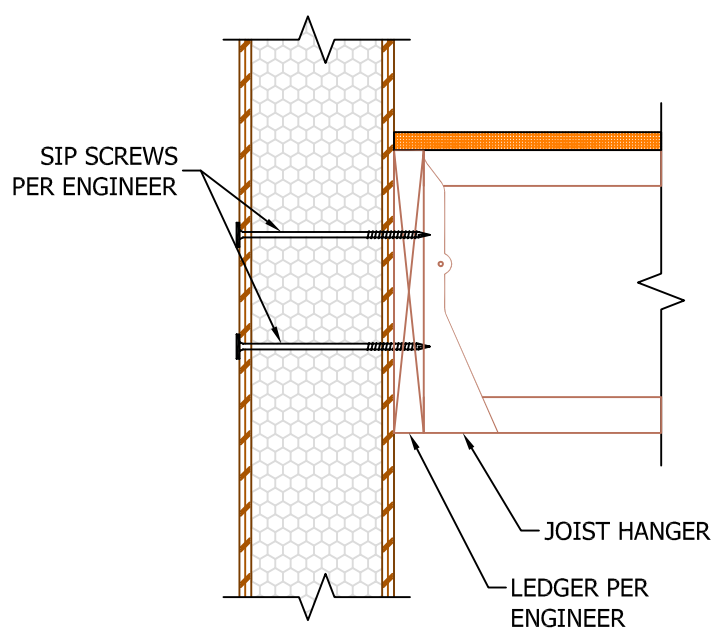
EPT - 508

PARAPET DETAIL

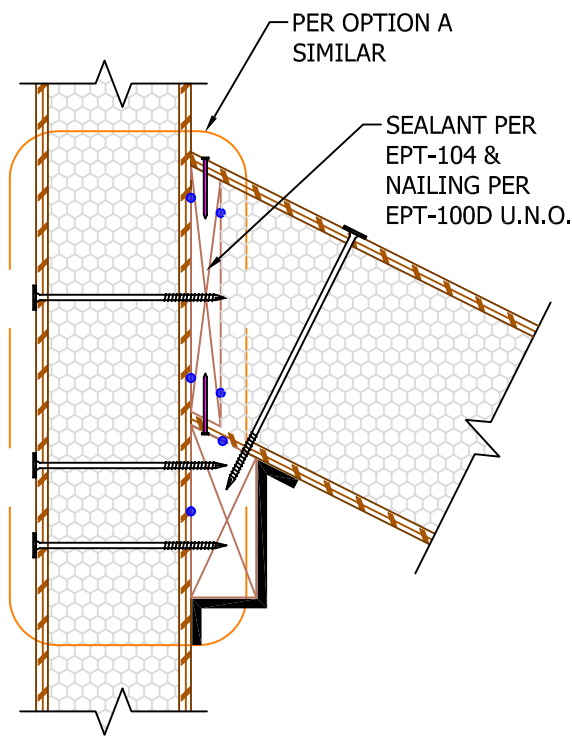
### OPTION A:



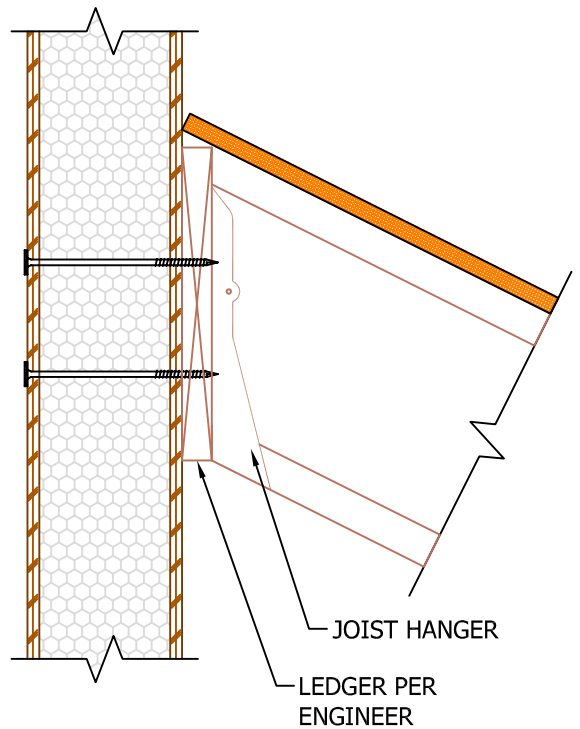
### OPTION B:



### OPTION C:



### OPTION D:



N.T.S.

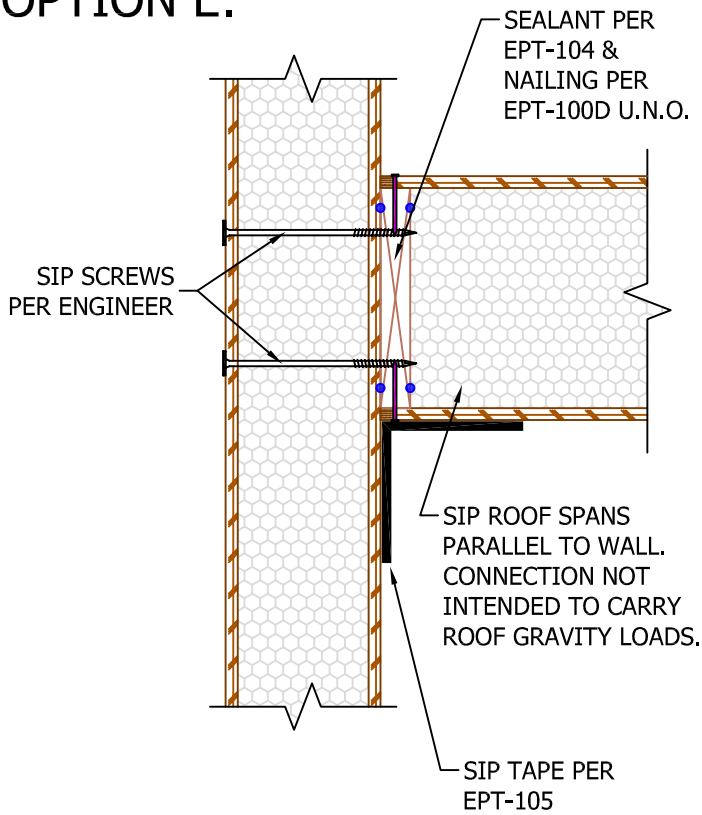
Rev: 9/21/2022

EPT-509A-D

LEDGER DETAILS  
SIP WALL

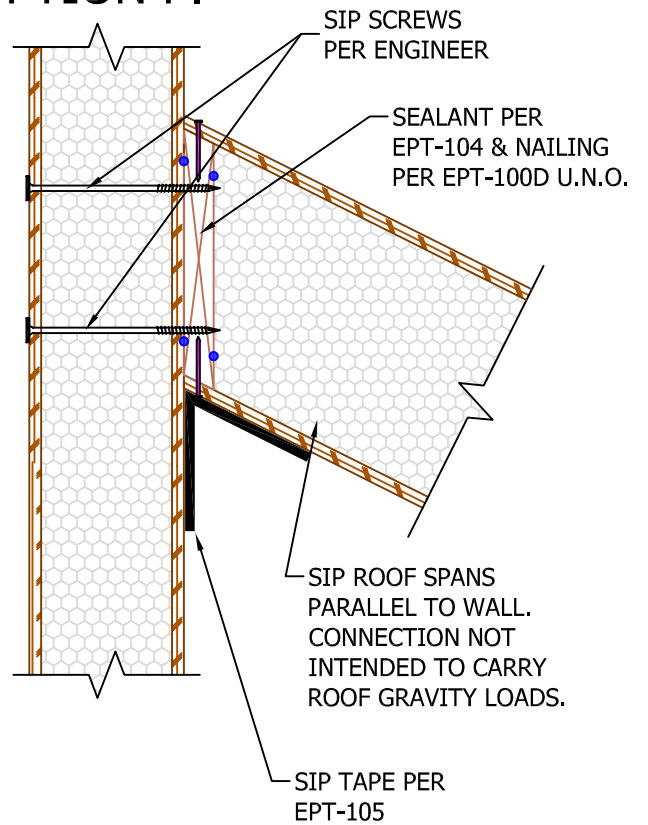


**OPTION E:**



N.T.S.

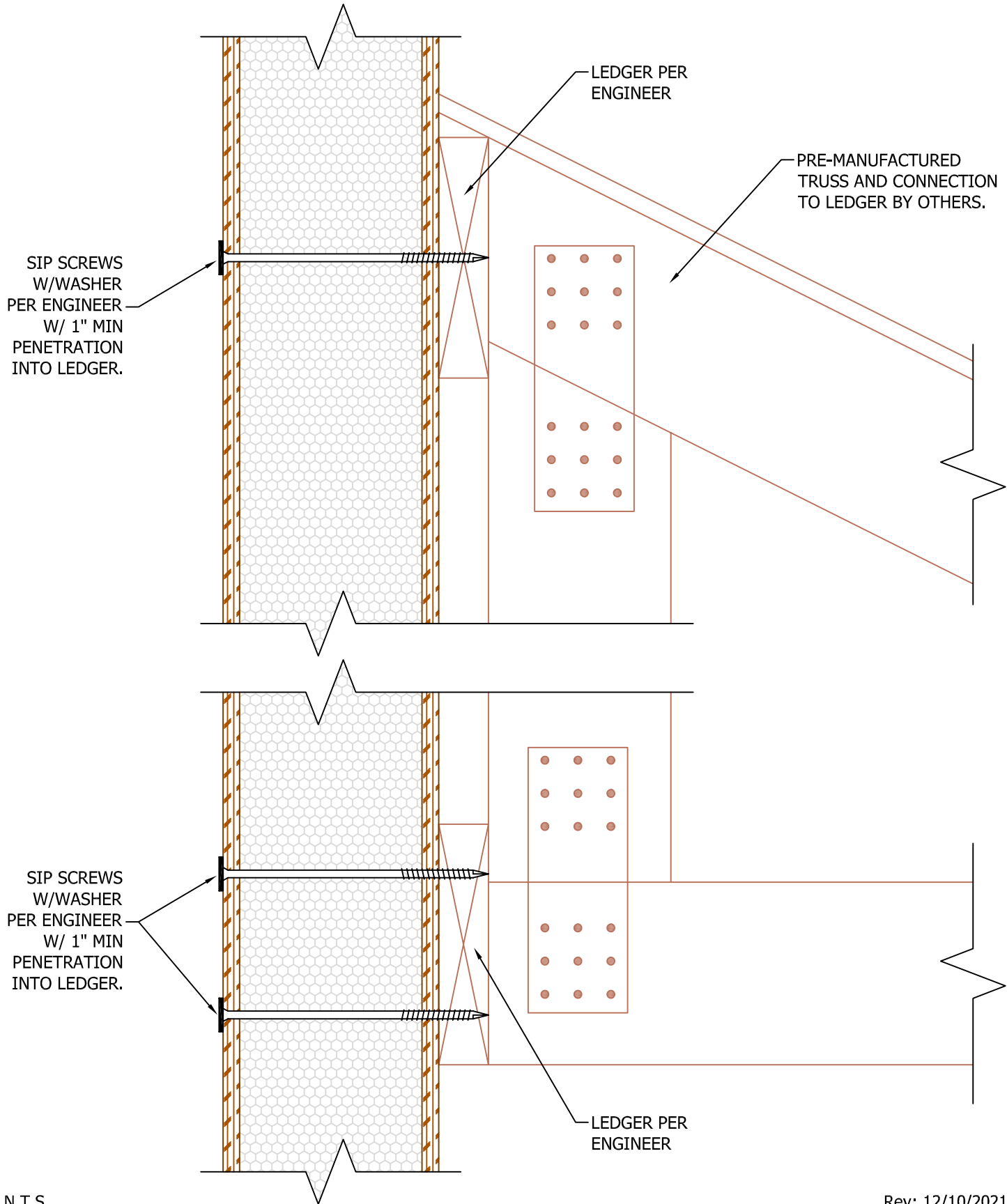
**OPTION F:**



Rev: 12/10/2021

EPT -509E-F

**LEDGER DETAILS  
SIP WALL**



N.T.S.

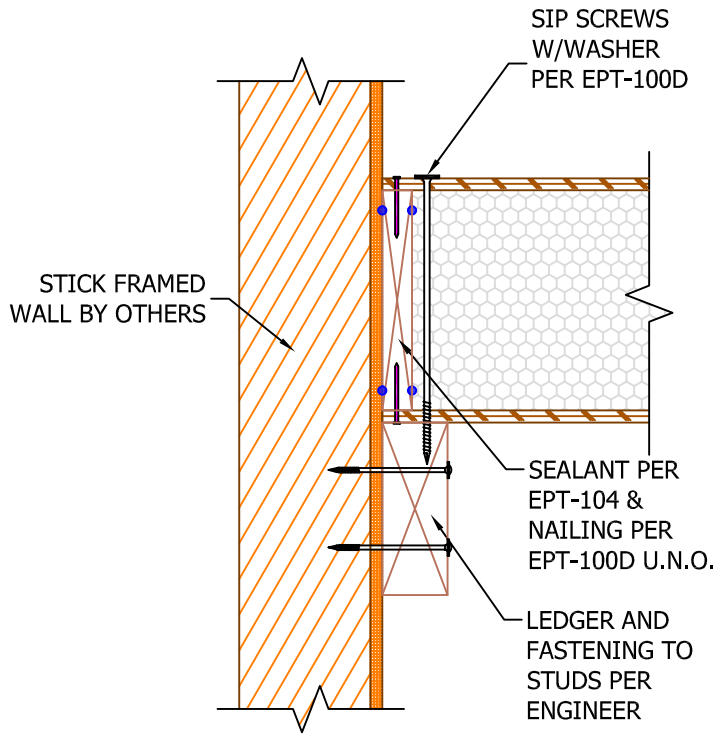
Rev: 12/10/2021

EPT-509G

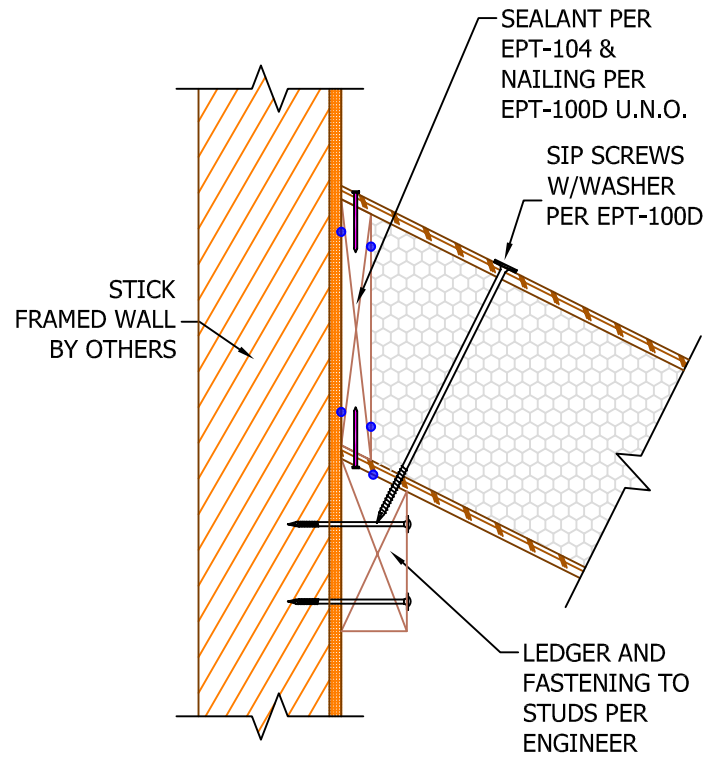
LEDGER DETAILS  
SIP WALL



### OPTION A:



### OPTION B:



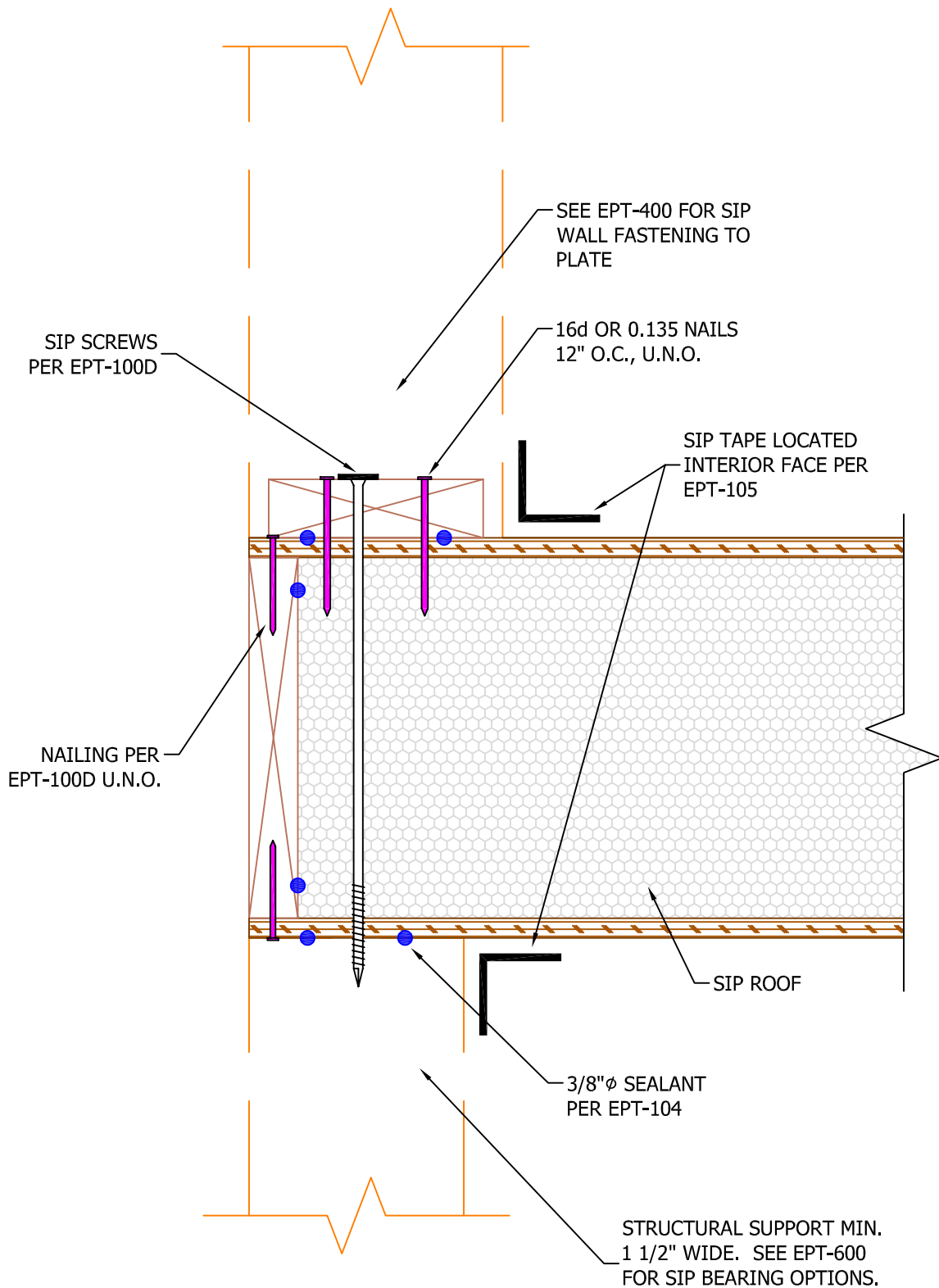
N.T.S.

Rev: 9/20/2022

EPT-510

LEDGER DETAILS  
STICK WALL





N.T.S.

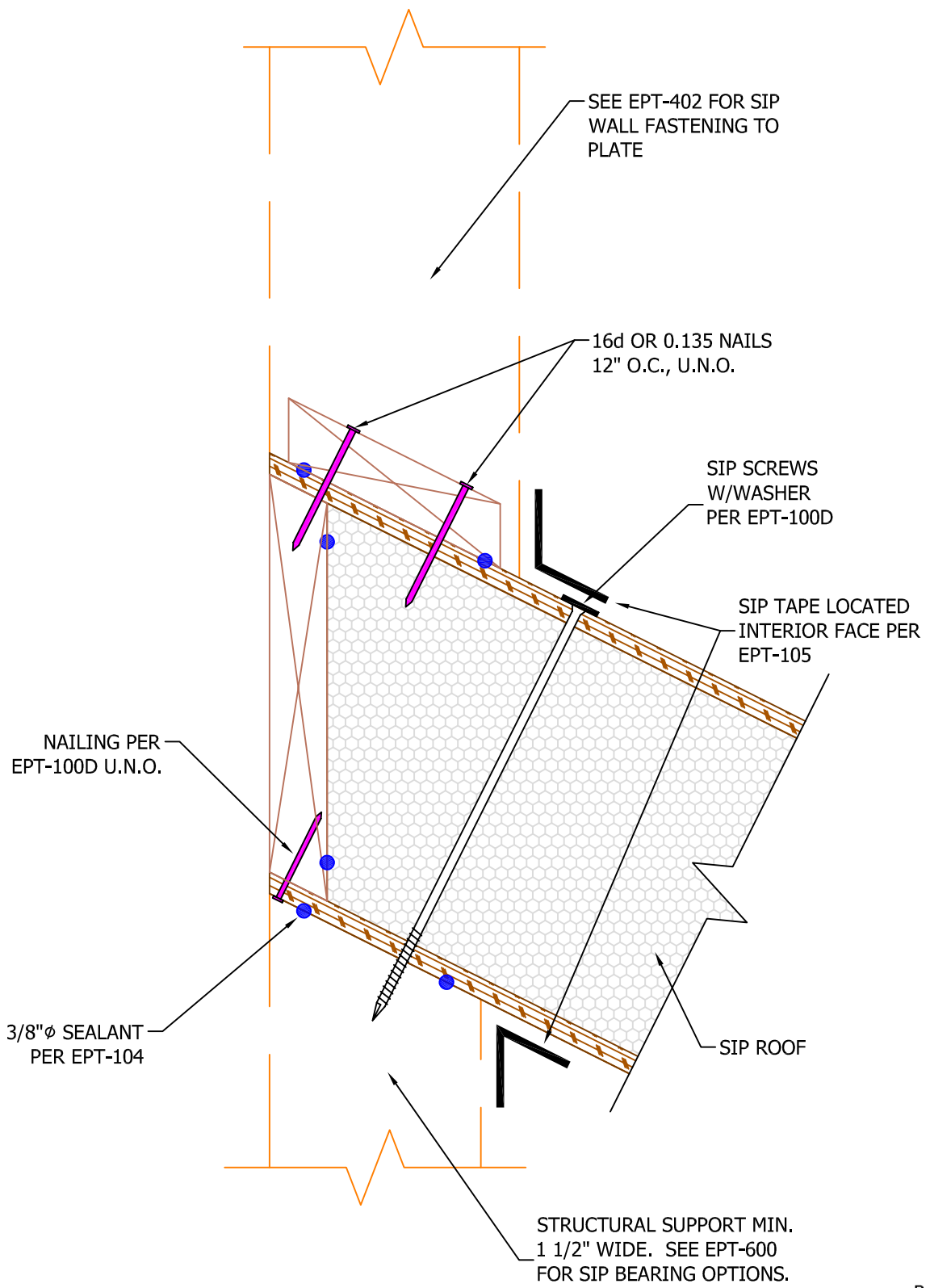
Rev: 9/19/2022

EPT-511

SIP WALL & ROOF PLATFORM FRAMING  
PERPENDICULAR INTERSECTION







N.T.S.

Rev: 8/4/2022

EPT -512

SIP WALL & ROOF PLATFORM FRAMING  
SLOPED INTERSECTION





# 600 Series: SIP Roof Bearing Details

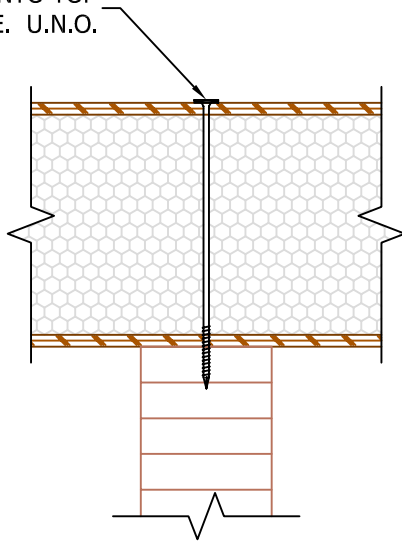


**EXTREME PANEL**  
**TECHNOLOGIES**



### OPTION A:

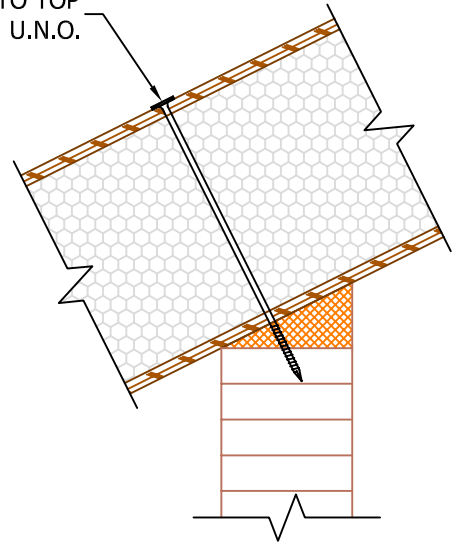
SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO TOP  
PLATE. U.N.O.



STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

### OPTION B:

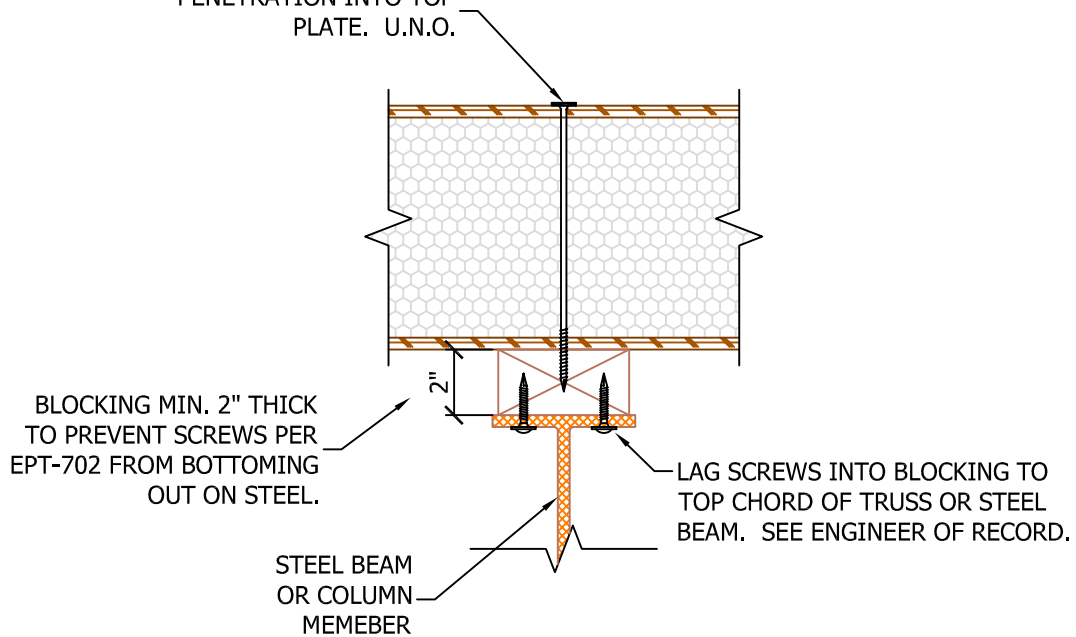
SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO TOP  
PLATE. U.N.O.



STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

### OPTION C:

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO TOP  
PLATE. U.N.O.



STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

N.T.S.

Rev: 12/10/2021

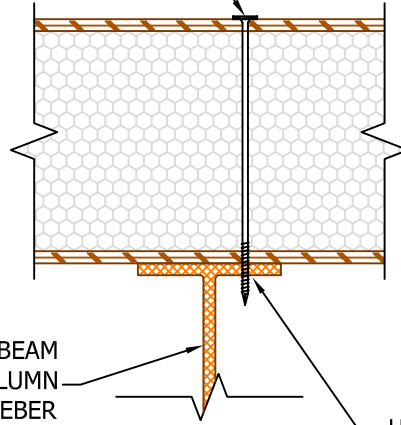
EPT-600A-C

## SIP BEARING CONDITIONS CONTINUOUS SIP



# OPTION D:

SIP SCREWS W/WASHER  
PER EPT-100D W/ FULL  
THREAD PENETRATION  
INTO STEEL. U.N.O.



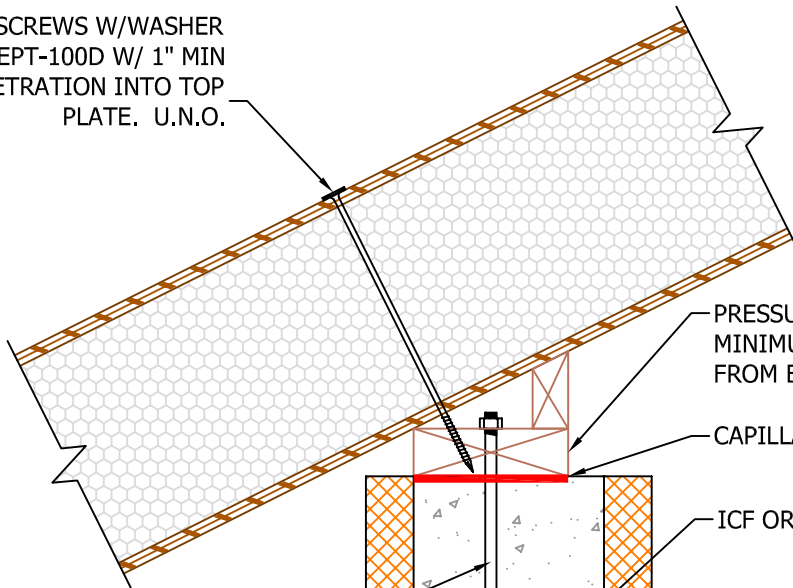
STEEL BEAM  
OR COLUMN  
MEMEBER

USE SELF TAPPING SIP SCREWS.  
REFERENCE TECHNICAL BULLETIN D-15

STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

# OPTION E:

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO TOP  
PLATE. U.N.O.



PRESSURE TREATED TOP PLATE  
MINIMUM 2" THICK TO PREVENT SCREWS  
FROM BOTTOMING OUT ON CONCRETE.

CAPILLARY BREAK MATERIAL

ICF OR CONCRETE WALL

ANCHOR BOLTS AS  
REQUIRED BY CODE U.N.O.  
IN SHEAR WALL SCHEDULE.

STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

N.T.S.

Rev: 9/19/2022

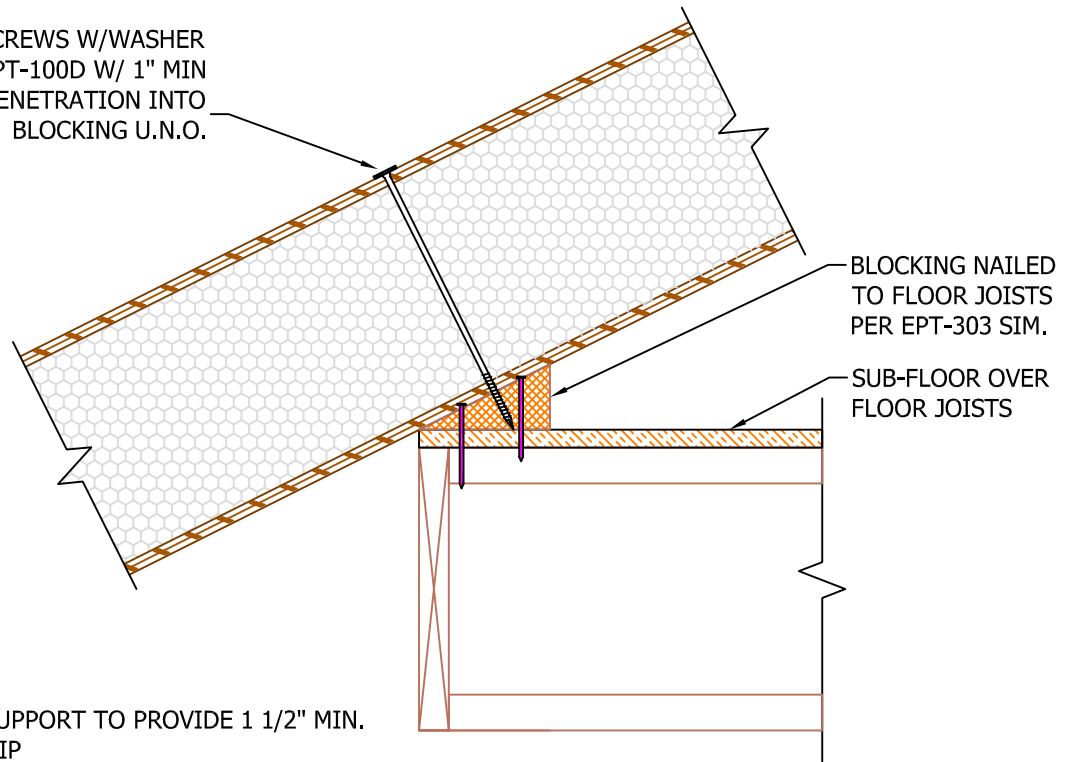
EPT-600D-E

SIP BEARING CONDITIONS  
CONTINUOUS SIP



# OPTION F:

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO  
BLOCKING U.N.O.



STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

# OPTION G:

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO  
PLATE. U.N.O.

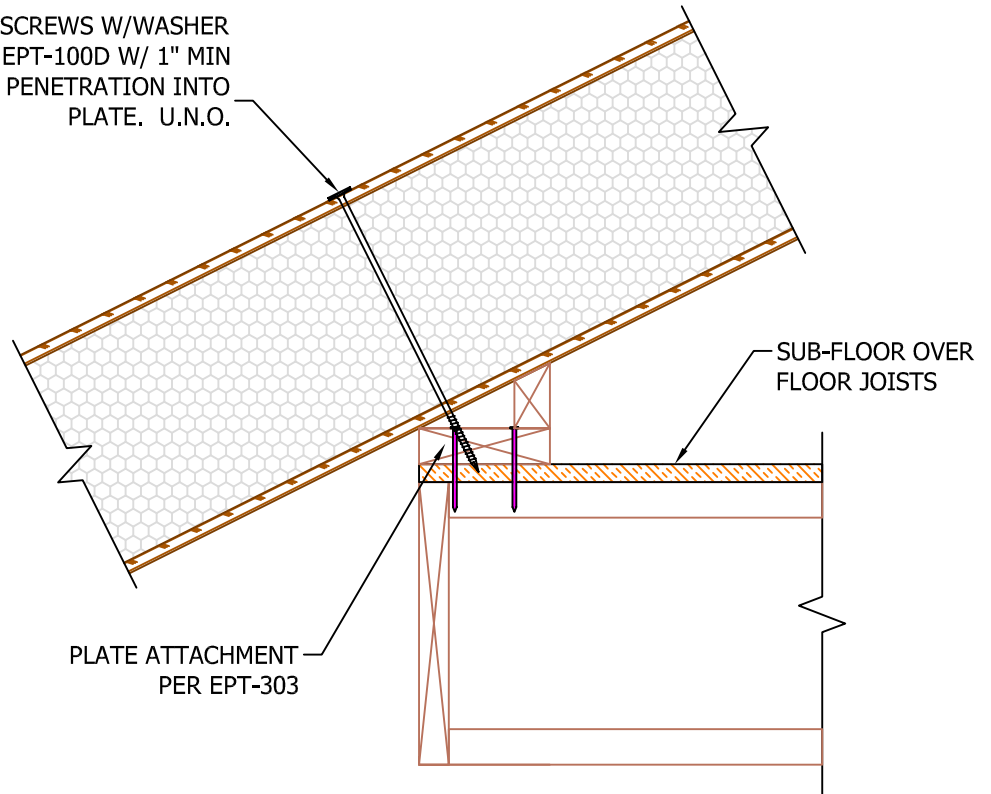


PLATE ATTACHMENT  
PER EPT-303

STRUCTURAL SUPPORT TO PROVIDE 1 1/2" MIN.  
BEARING FOR SIP

N.T.S.

Rev: 9/23/2022

EPT-600F-G

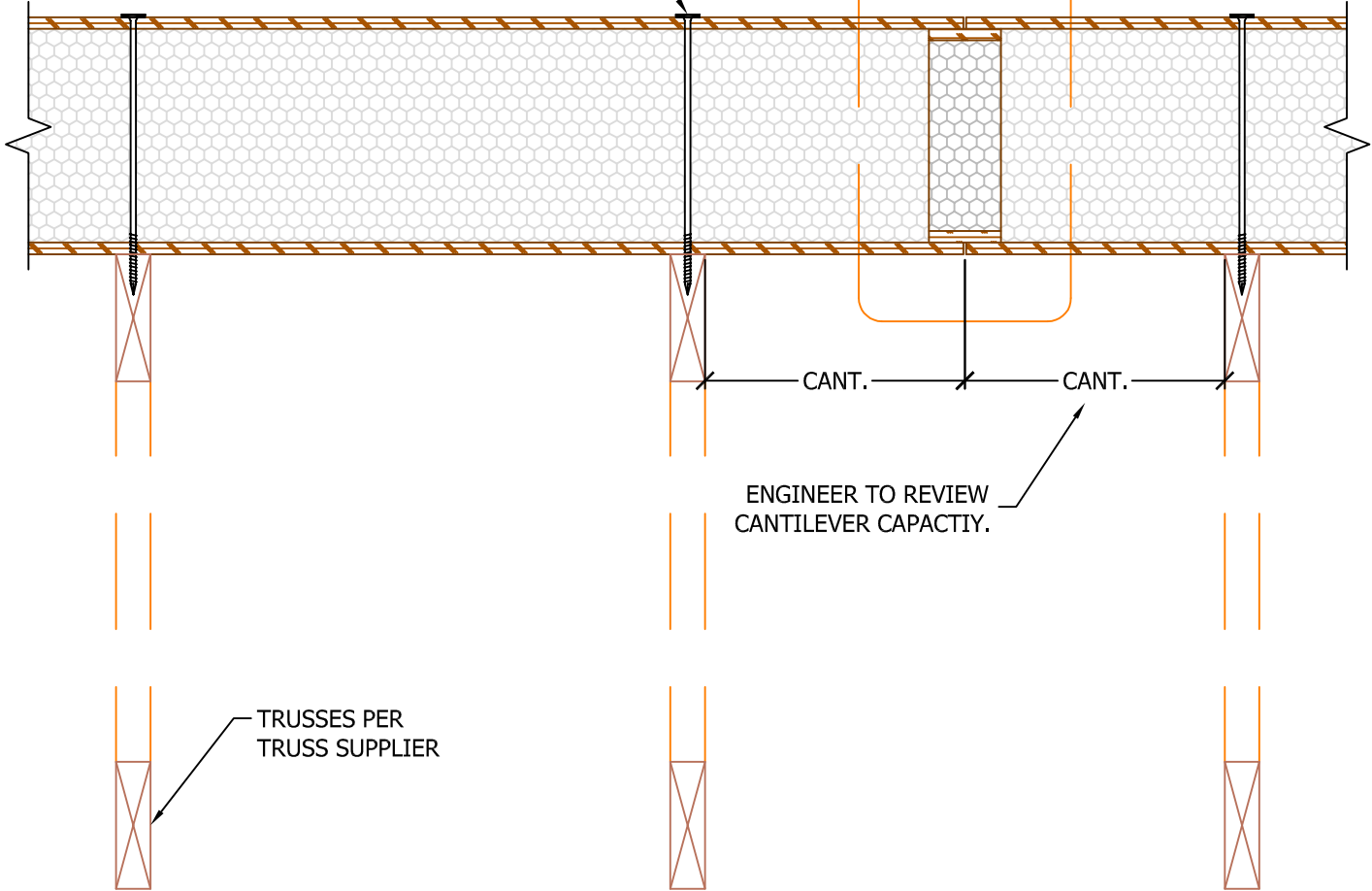
SIP BEARING CONDITIONS  
CONTINUOUS SIP



# OPTION H:

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1 3/4"  
MIN PENETRATION INTO  
TOP CHORD OF TRUSS.  
TYPICAL U.N.O.

BLOCK SPLINE.  
SEE EPT-200



ENGINEER TO REVIEW  
CANTILEVER CAPACITY.

TRUSSES PER  
TRUSS SUPPLIER

N.T.S.

Rev: 9/19/2022

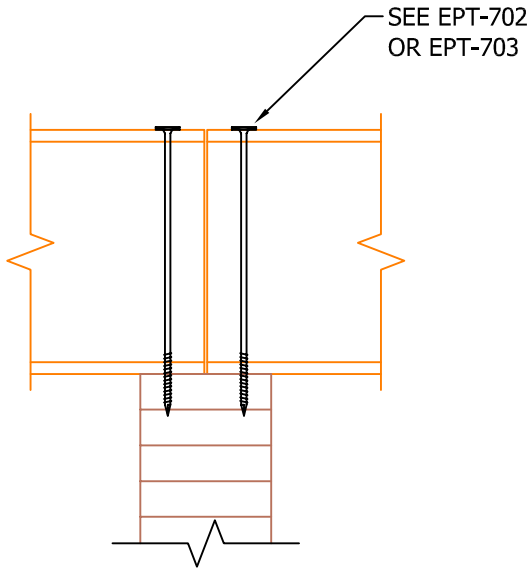
EPT-600H

SIP BEARING CONDITIONS  
CONTINUOUS SIP



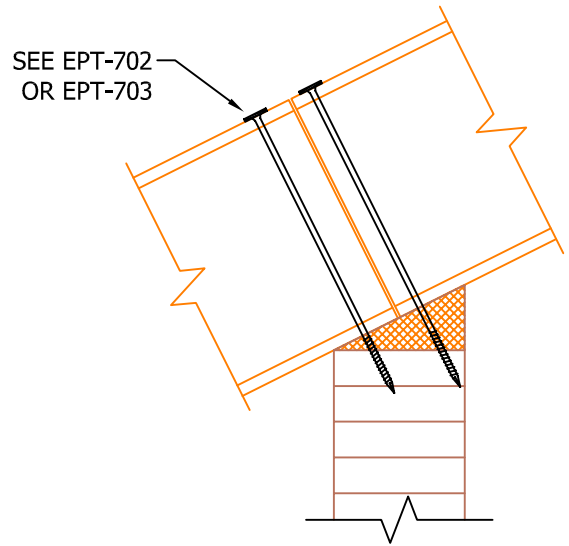


### OPTION A:



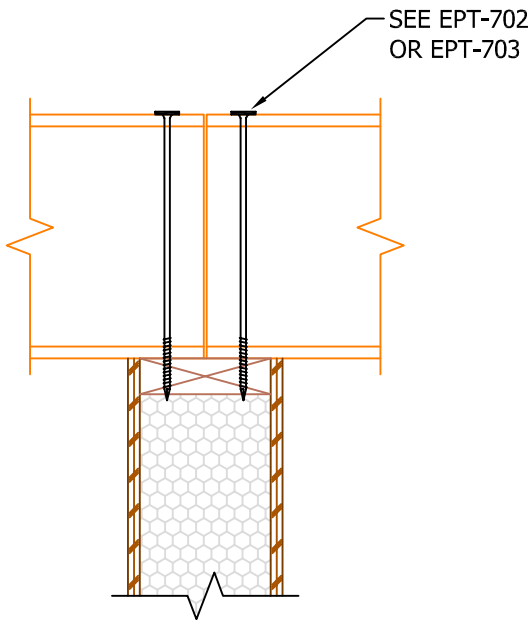
STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR EACH SIP

### OPTION B:



STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR EACH SIP

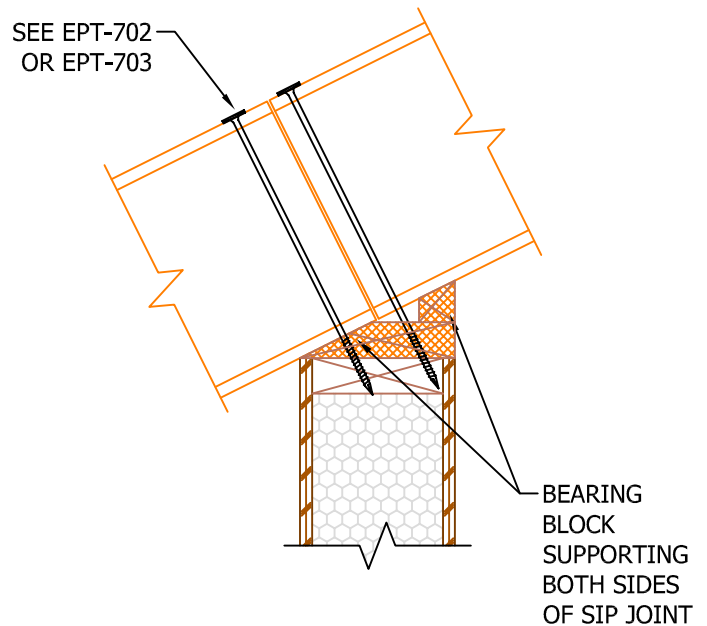
### OPTION C:



STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR EACH SIP

N.T.S.

### OPTION D:



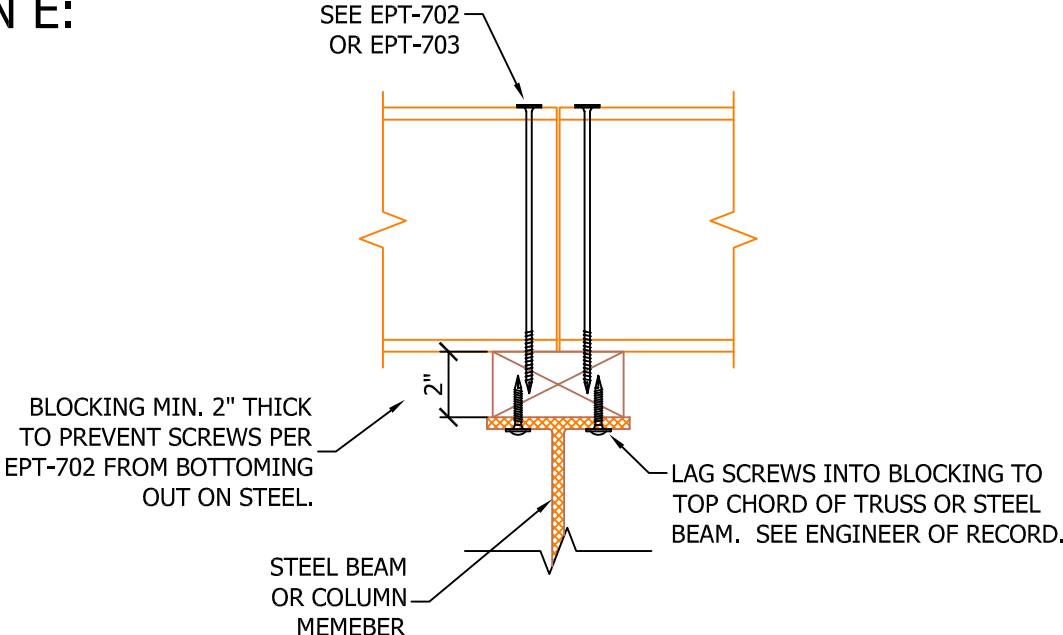
STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR EACH SIP

Rev: 1/18/2023

EPT-601A-D

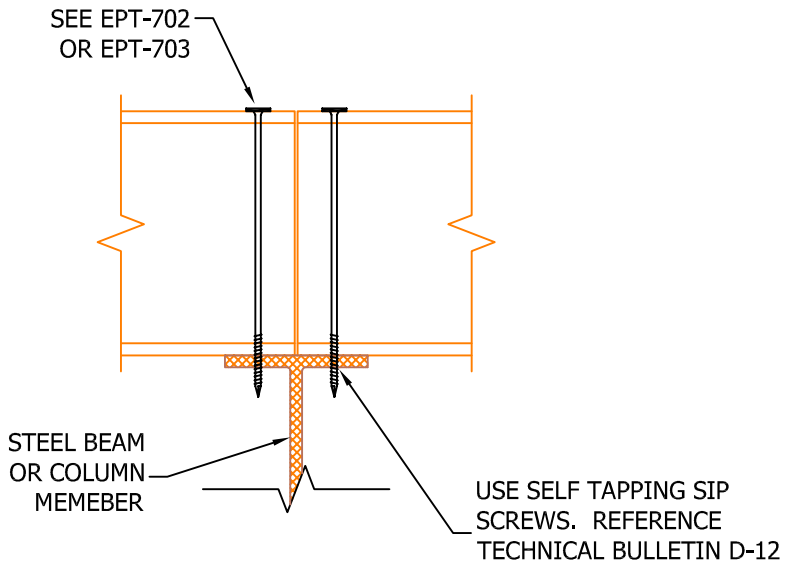
SIP BEARING CONDITIONS  
SIP JOINT

# OPTION E:



STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE 1 1/2" MIN. BEARING FOR EACH SIP

# OPTION F:



STRUCTURAL SUPPORT MIN. 3" WIDE TO PROVIDE 1 1/2" MIN. BEARING FOR EACH SIP

N.T.S.

Rev: 1/18/2023

EPT -601E-F

SIP BEARING CONDITIONS  
SIP JOINT



# 700 Series: Roof Details



**EXTREME PANEL**  
**TECHNOLOGIES**



SIP WALL: EPT-802

NAILS PER  
EPT-100D. U.N.O.

SIP WALL: EPT-505 (ROOF) or EPT-802 (FLOOR)  
FOUNDATION: EPT-800

SPF#2 OR BETTER  
FLOOR PERIMETER OR  
ROOF SUBFASCIA PLATE

3/8"  $\phi$  SEALANT PER  
EPT-104

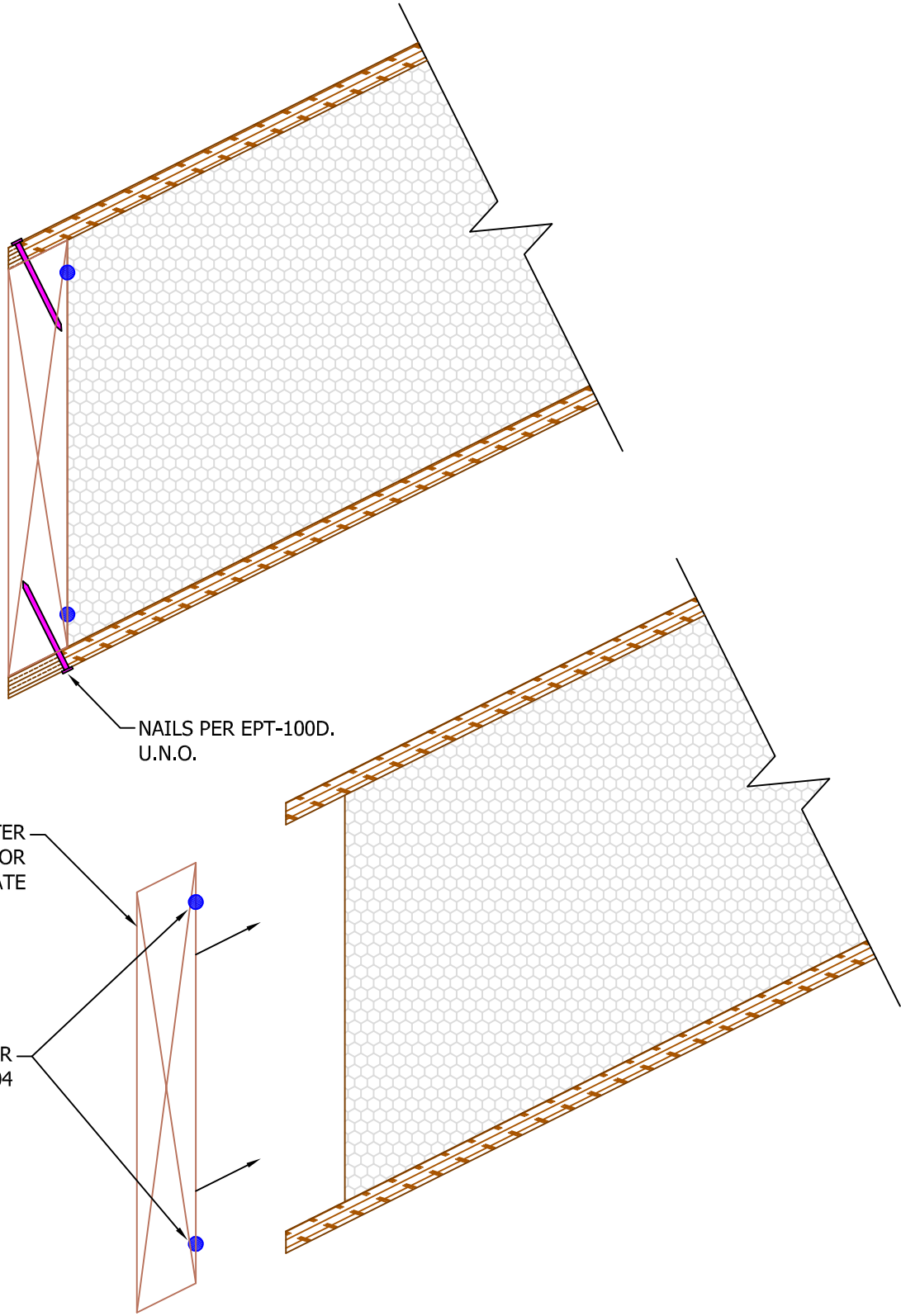
N.T.S.

Rev: 6/3/2021

EPT-700

SIP FLOOR/ROOF PLATE





NAILS PER EPT-100D.  
U.N.O.

SPF#2 OR BETTER  
FLOOR PERIMETER OR  
ROOF SUBFASCIA PLATE

3/8"φ SEALANT PER  
EPT-104

N.T.S.

Rev: 12/10/2021

EPT - 701

BEVELED ROOF PLATE



SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO  
STRUCTURAL SUPPORT  
U.N.O.

3/8"φ SEALANT  
PER EPT-104

18" SIP TAPE  
PER EPT-105

SEE EPT-601 FOR SIP  
BEARING OPTIONS

STRUCTURAL SUPPORT  
MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR  
EACH ROOF SIP

N.T.S.

Rev: 12/10/2021

EPT -702

FLUSH FOAM ABOVE BEARING



SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO  
STRUCTURAL SUPPORT  
U.N.O.

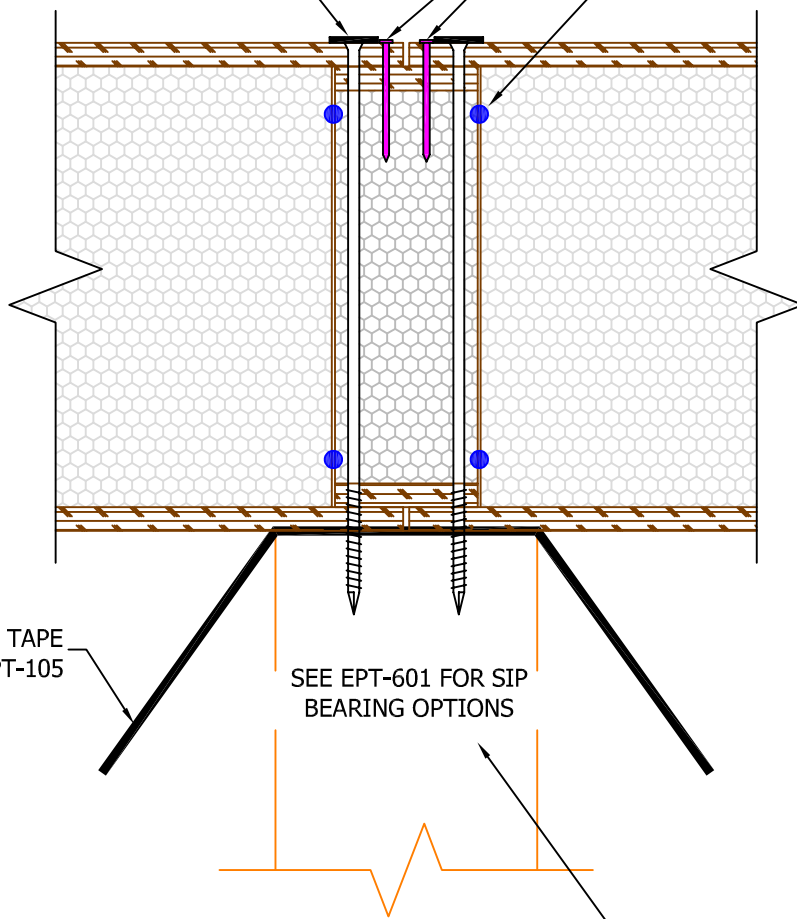
NAILS PER EPT-100D.  
U.N.O.

3/8"φ SEALANT PER  
EPT-104

18" SIP TAPE  
PER EPT-105

SEE EPT-601 FOR SIP  
BEARING OPTIONS

STRUCTURAL SUPPORT  
MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING ON  
EACH SIDE OF SIP JOINT



N.T.S.

Rev: 7/18/2022

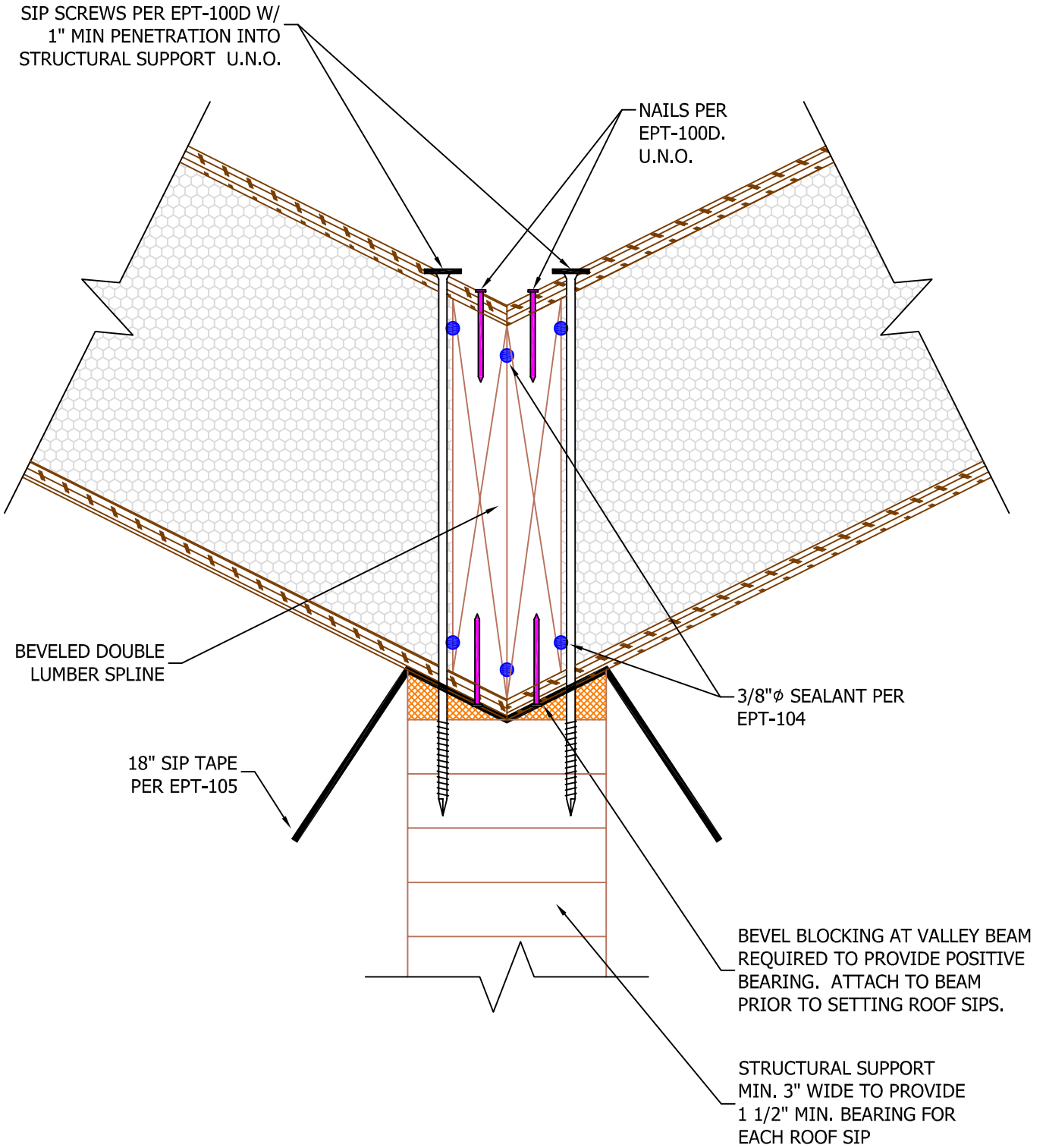
EPT -703

BOX/BLOCK SPLINE ABOVE BEARING





**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

Rev: 2/16/2023

EPT-705

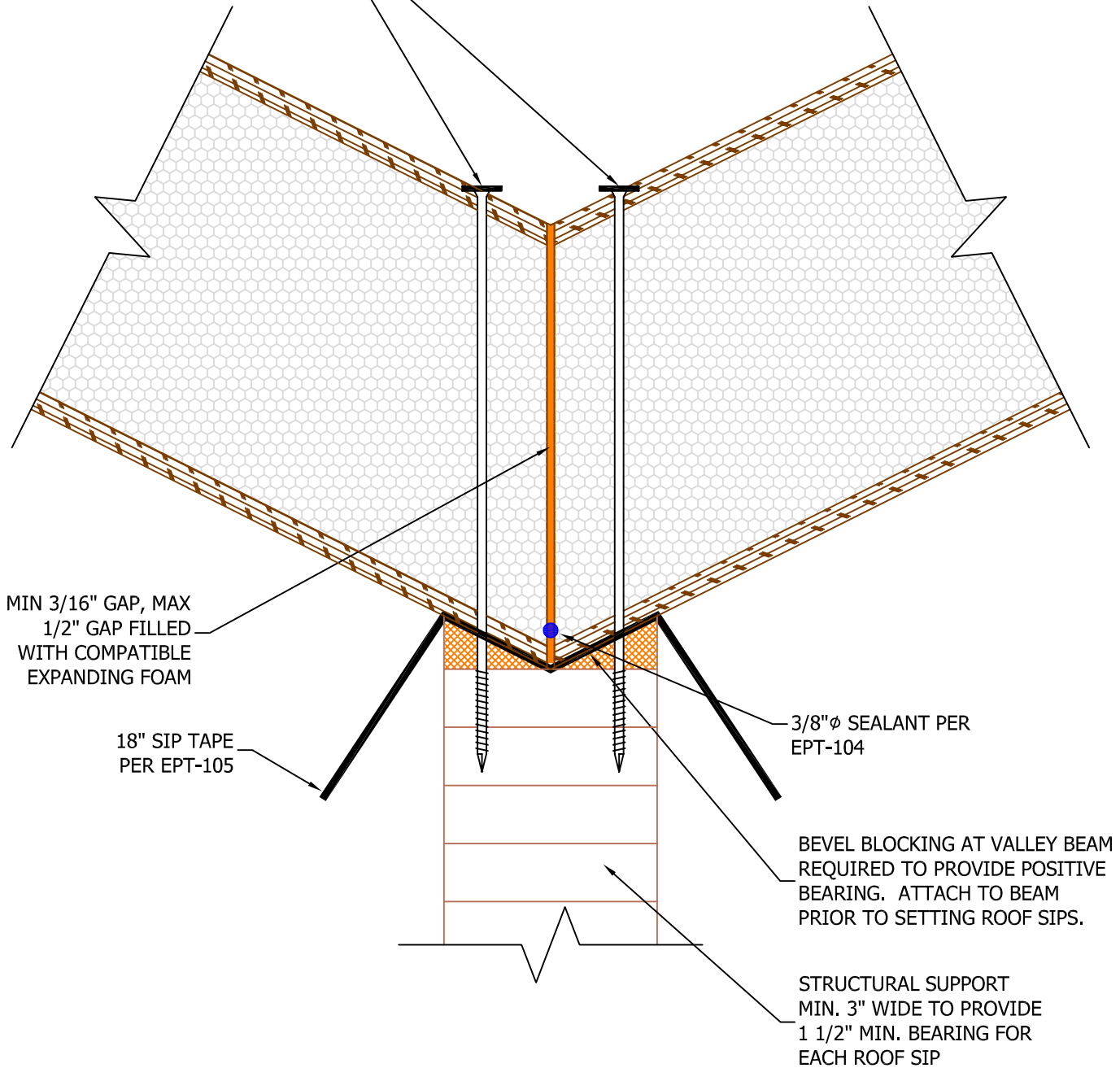
ROOF VALLEY  
BEVEL CUT



**NOTES:**

1. SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS
2. THE MAXIMUM VERTICAL REACTION SHALL NOT EXCEED 400 PLF (ASD) FROM EITHER ROOF SIP, OTHERWISE USE DETAIL EPT-705

SIP SCREWS PER EPT-100D W/  
1" MIN PENETRATION INTO  
STRUCTURAL SUPPORT U.N.O.



N.T.S.

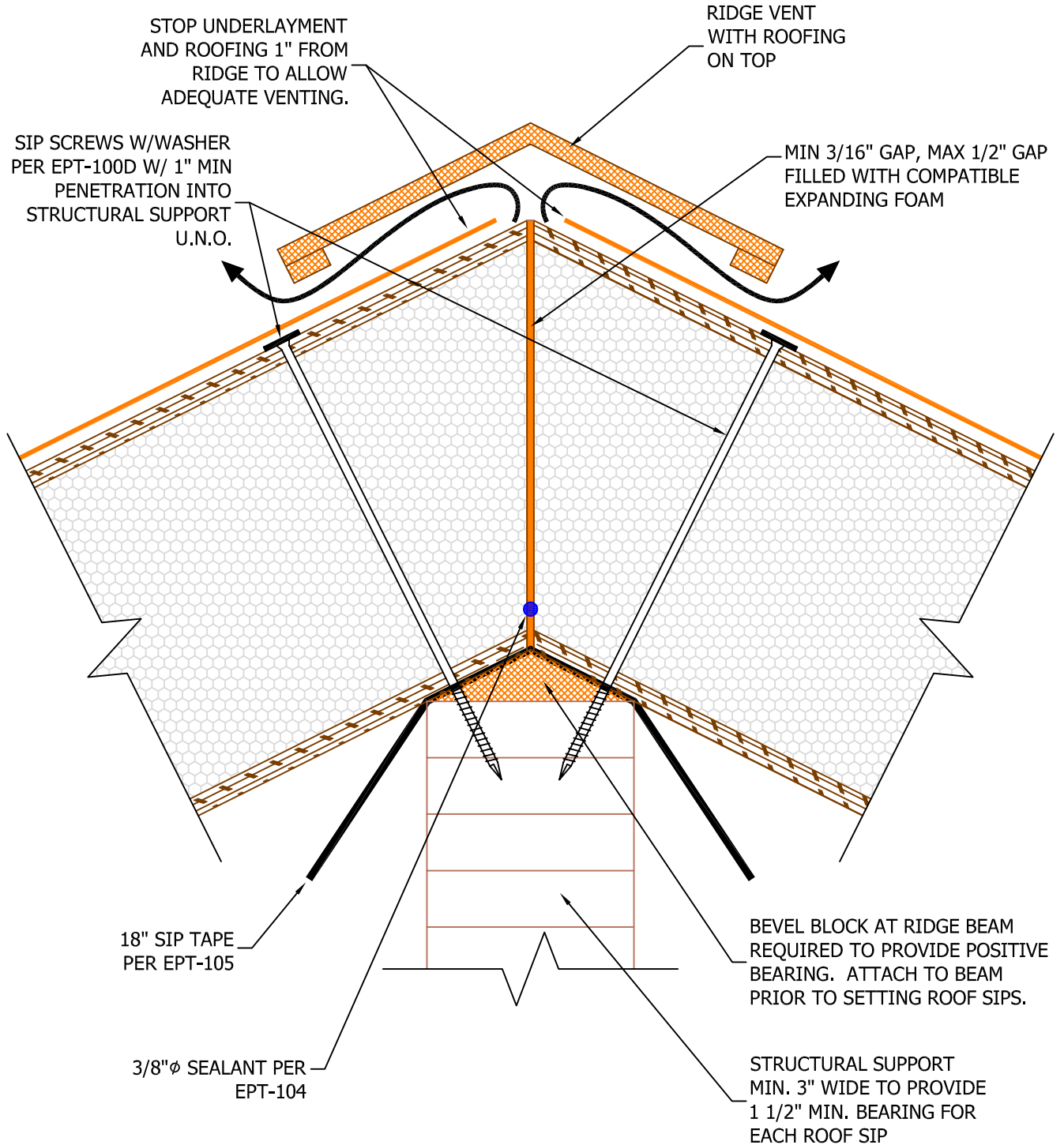
Rev: 12/10/2021

EPT -706

ROOF VALLEY FLUSH FOAM  
BEVEL CUT



**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

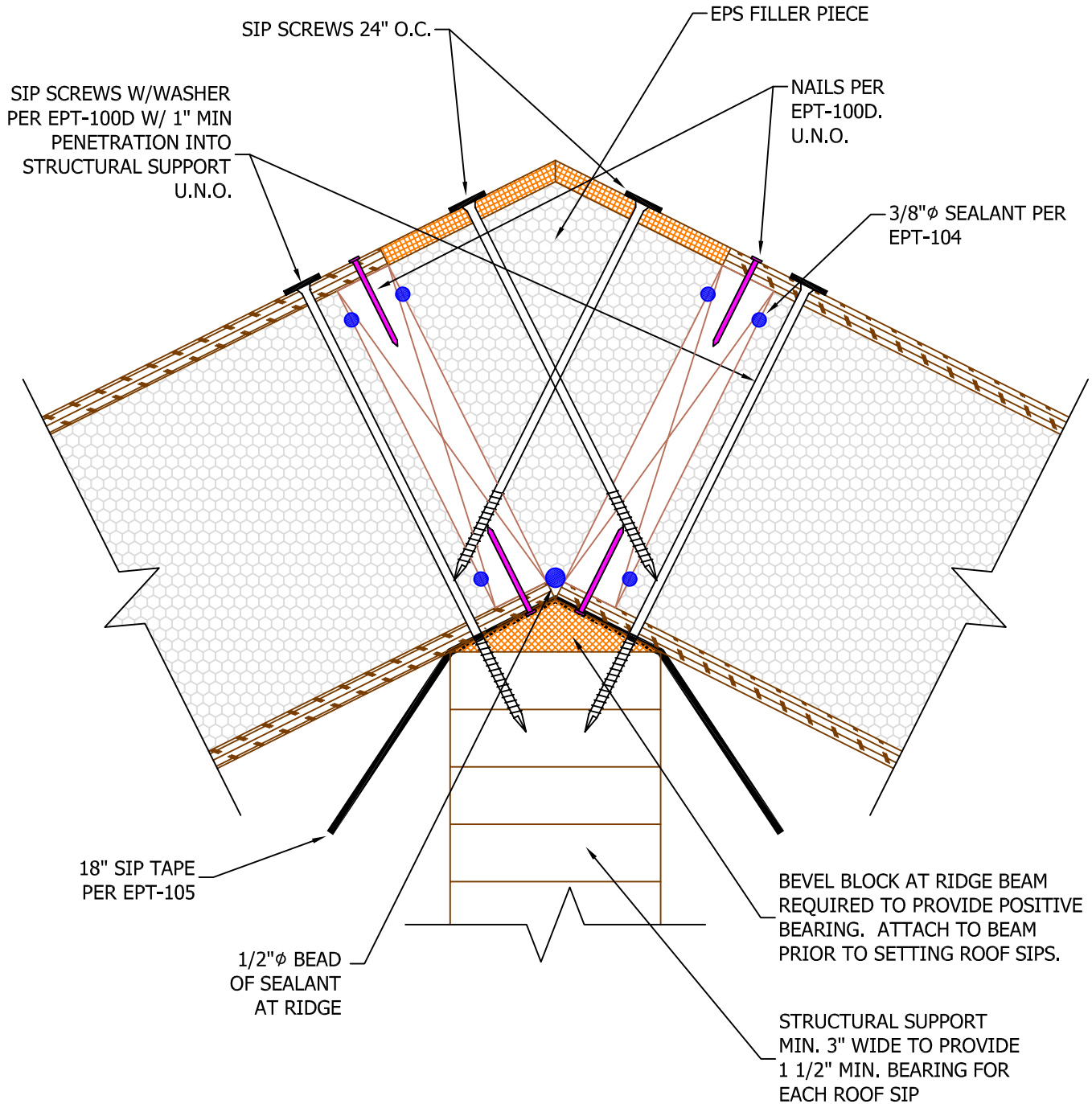
Rev: 3/31/2022

EPT-708

ROOF RIDGE / HIP FLUSH FOAM  
BEVEL CUT



**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

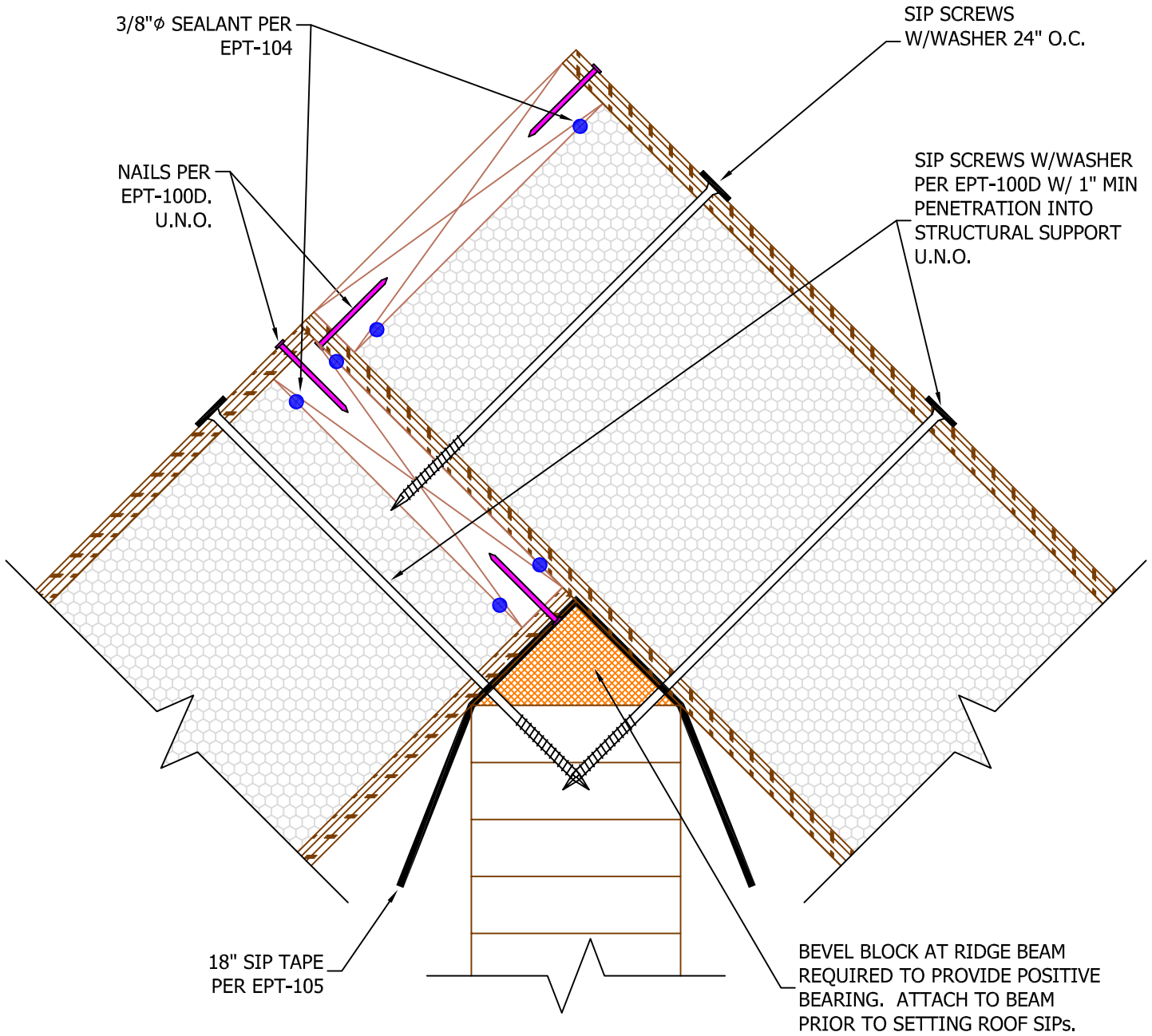
Rev: 2/16/2023

EPT-709

ROOF RIDGE  
RIDGE CAP



NOTE:  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



N.T.S.

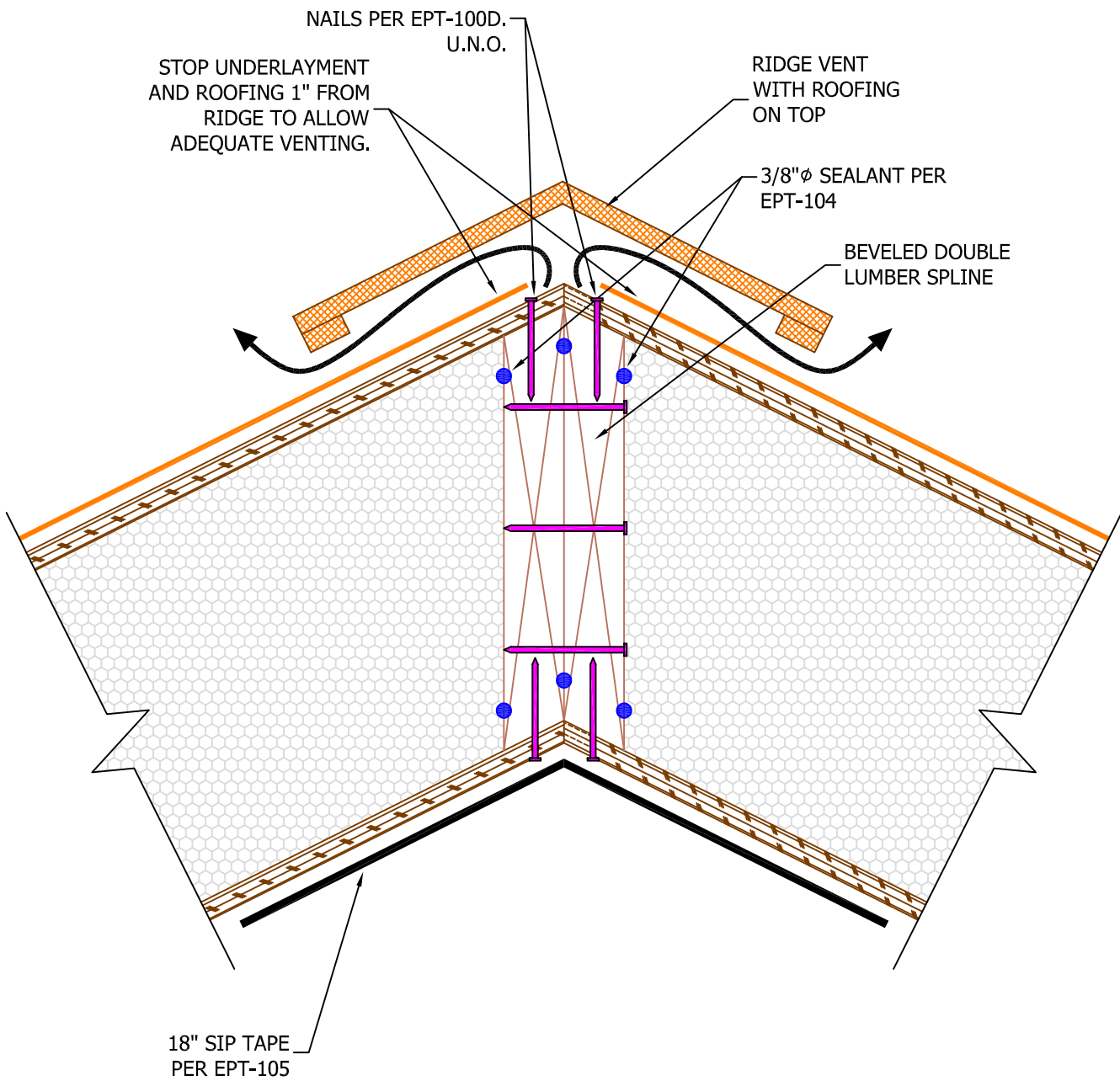
Rev: 12/10/2021

EPT-710

ROOF RIDGE  
OVERLAP



**NOTE:**  
 THIS DETAIL IS ONLY PERMITTED IN SITUATIONS WHERE THE SIP IS SPANNING PARALLEL TO THE RIDGE. E.G. BEARING ON TRUSSES, OR RAFTERS.



N.T.S.

Rev: 2/16/2023

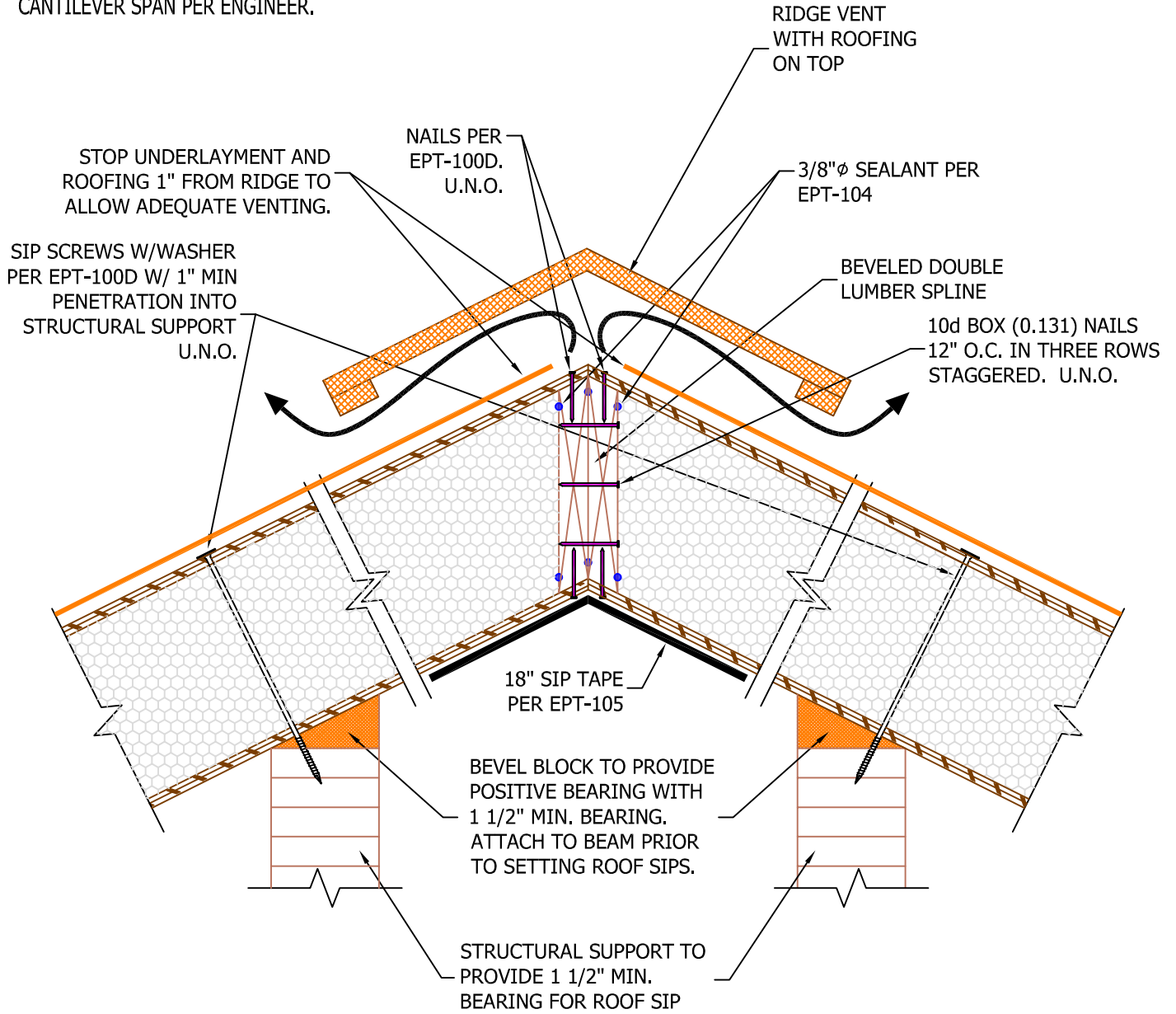
**EPT-711**

**ROOF RIDGE  
 SIPS SPANNING PARALLEL TO RIDGE**



**NOTE:**

CANTILEVER SPAN PER ENGINEER.



N.T.S.

Rev: 2/16/2023

EPT-713

**ROOF RIDGE  
CANTILEVERED SIP**



**NOTE:**  
SEE EBS-600 FOR ALTERNATE SIP BEARING CONDITIONS

STOP UNDERLAYMENT  
AND ROOFING 1" FROM  
RIDGE TO ALLOW  
ADEQUATE VENTING.

RIDGE VENT  
WITH ROOFING  
ON TOP

MIN 3/16" GAP, MAX 1/2" GAP  
FILLED WITH COMPATIBLE  
EXPANDING FOAM

SIP SCREWS W/WASHER  
PER EPT-100D W/ 1" MIN  
PENETRATION INTO  
STRUCTURAL SUPPORT  
U.N.O.

EQUAL

EQUAL

3/8"  $\phi$  SEALANT PER  
EPT-104

BEVEL BLOCK AT RIDGE BEAM  
REQUIRED TO PROVIDE POSITIVE  
BEARING. ATTACH TO BEAM  
PRIOR TO SETTING ROOF SIPS.

18" SIP TAPE  
PER EPT-105

STRUCTURAL SUPPORT  
MIN. 3" WIDE TO PROVIDE  
1 1/2" MIN. BEARING FOR  
EACH ROOF SIP

N.T.S.

Rev: 3/31/2022

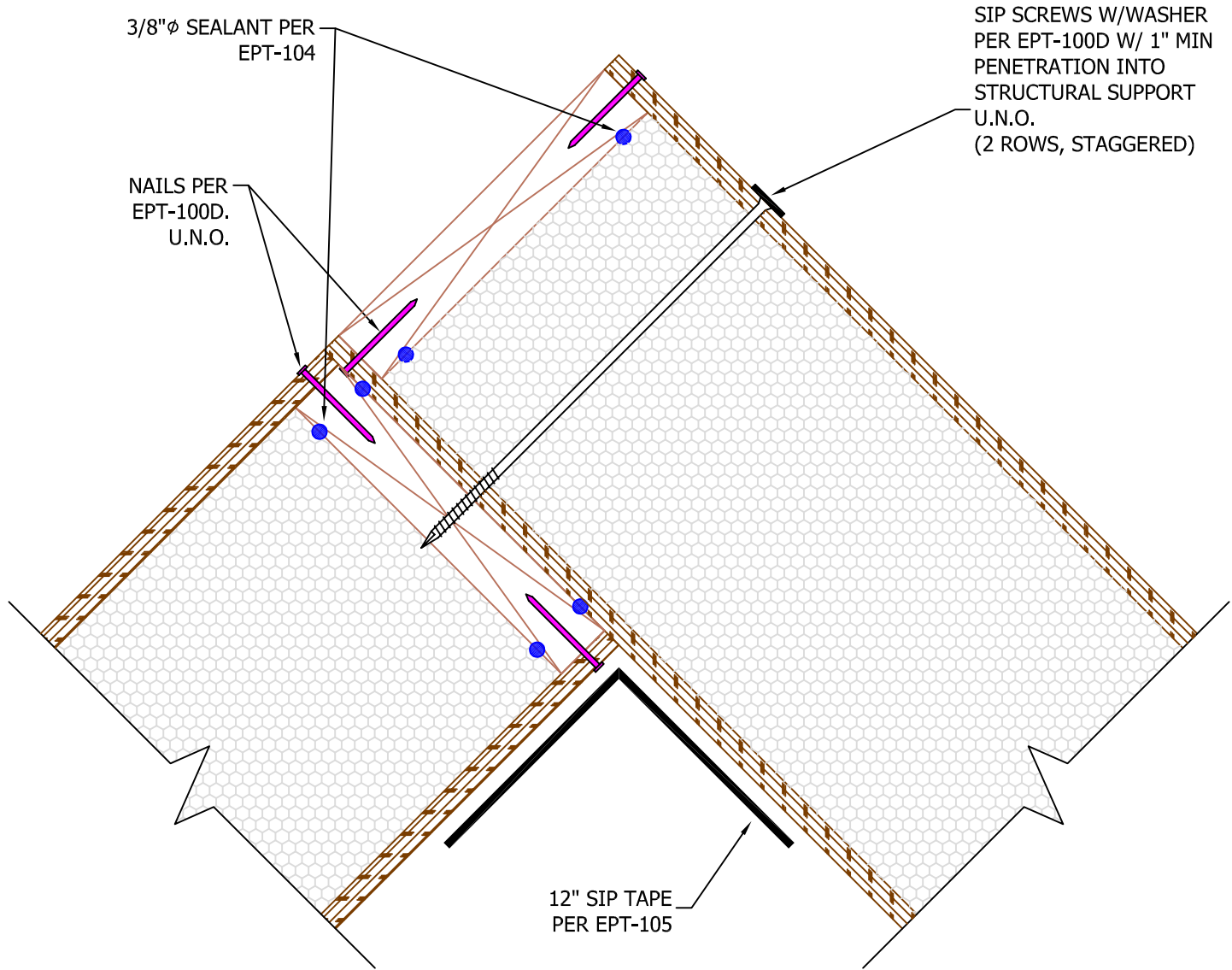
EPT-714

ROOF RIDGE FLUSH FOAM  
PLUMB CUT AT DIFFERENT PITCHES





**NOTE:**  
SEE EPT-600 FOR ALTERNATE SIP BEARING CONDITIONS



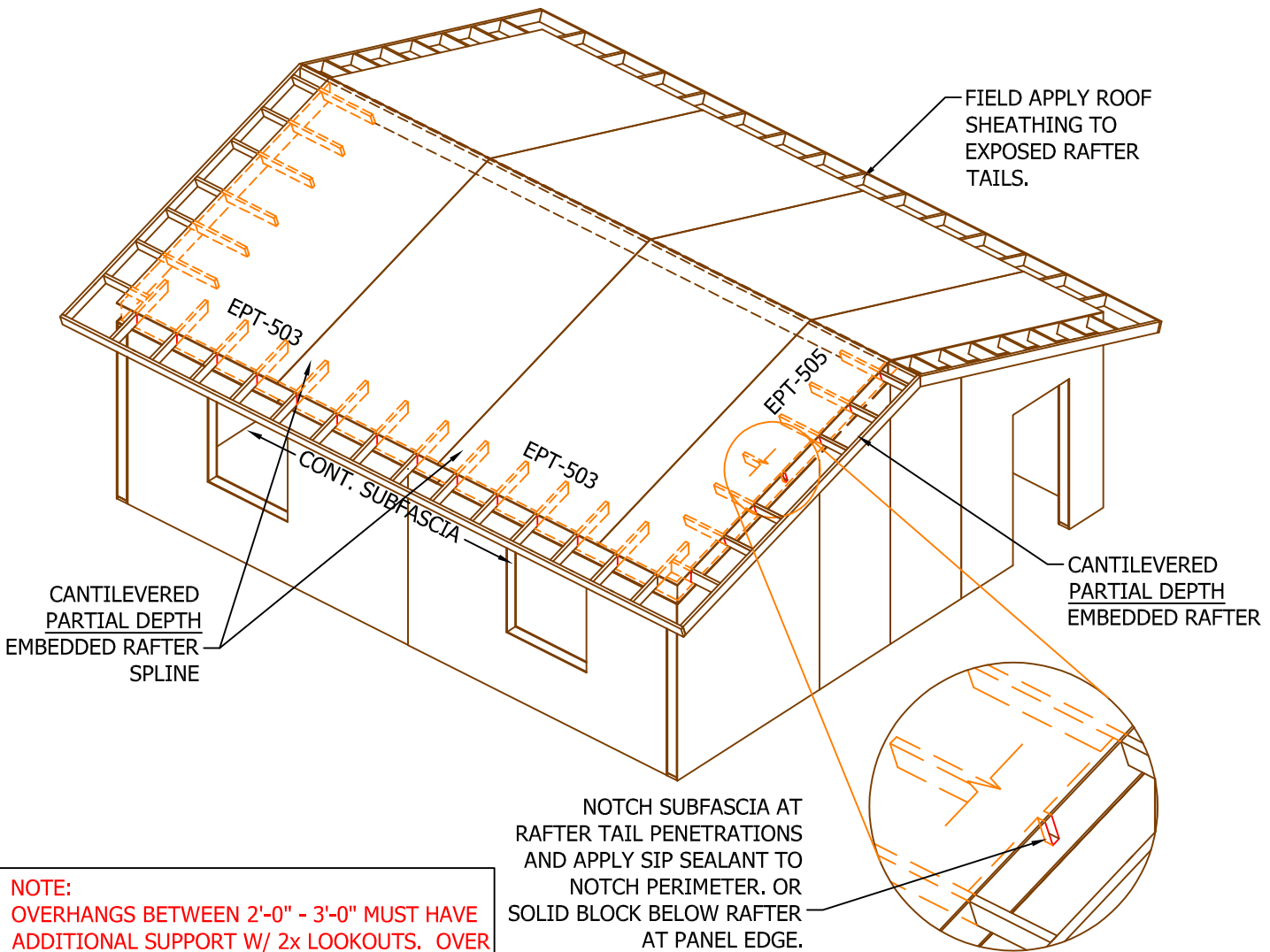
N.T.S.

Rev: 2/16/2023

EPT-718

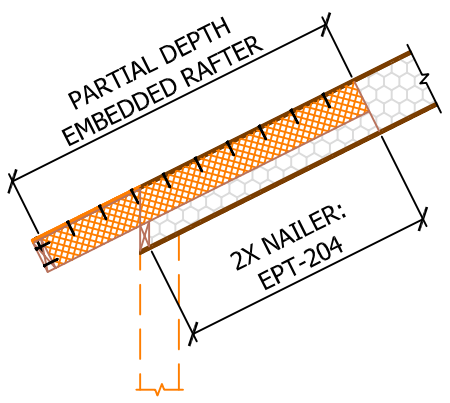
ROOF RIDGE OVERLAP  
SIPS SPANNING PARALLEL TO RIDGE





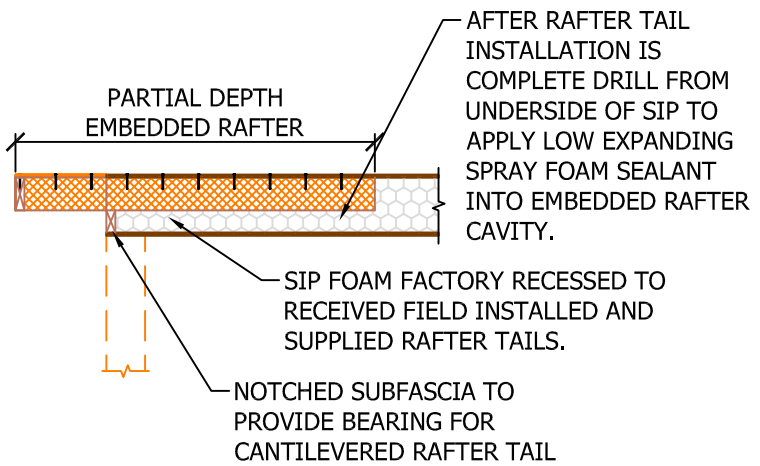
**NOTE:**  
 OVERHANGS BETWEEN 2'-0" - 3'-0" MUST HAVE ADDITIONAL SUPPORT W/ 2x LOOKOUTS. OVER 3'-0" REQUIRES END SUPPORT.

**PARTIAL DEPTH RAFTER TAIL:**



N.T.S.

**PARTIAL DEPTH RAFTER TAIL:**



Rev: 3/17/2023

EPT-720

**EXPOSED RAFTER TAILS  
 PARTIAL DEPTH**

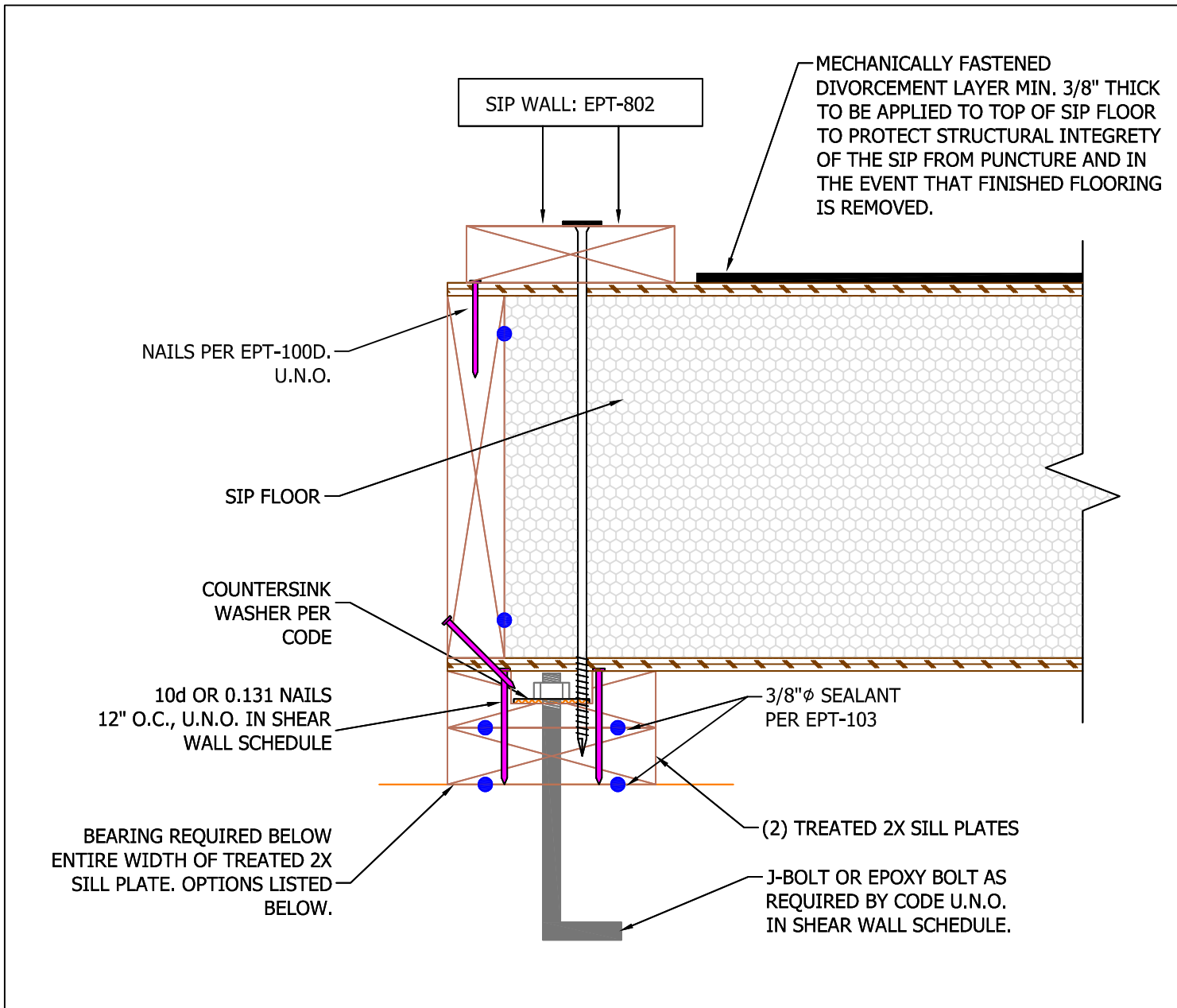


# 800 Series: SIP Floor Details

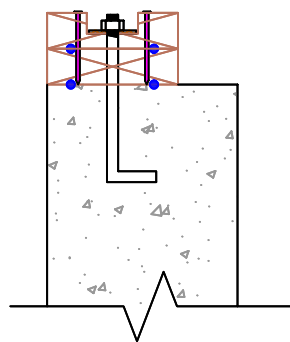


**EXTREME PANEL**  
**TECHNOLOGIES**



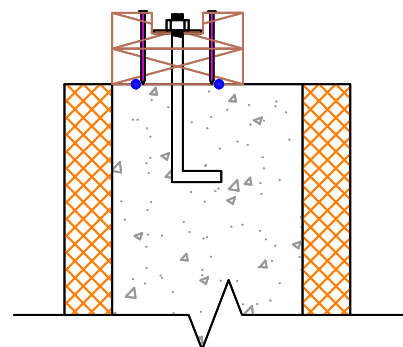


A: WALL



N.T.S.

B: ICF WALL

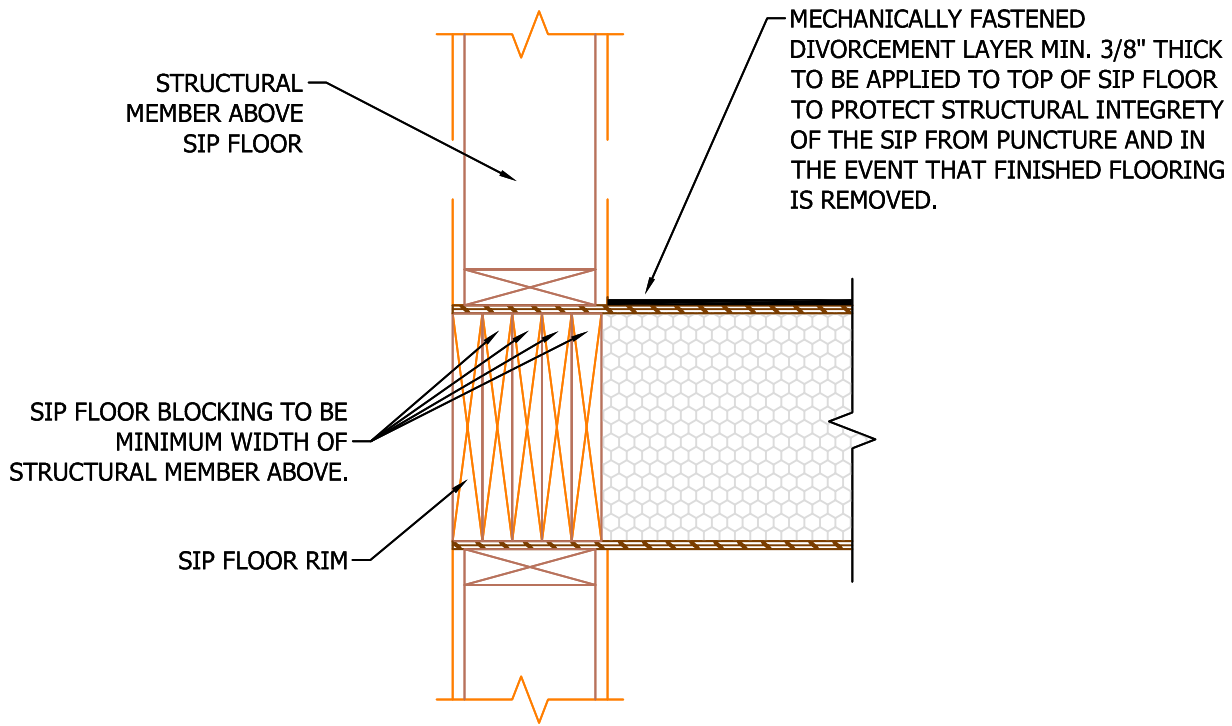
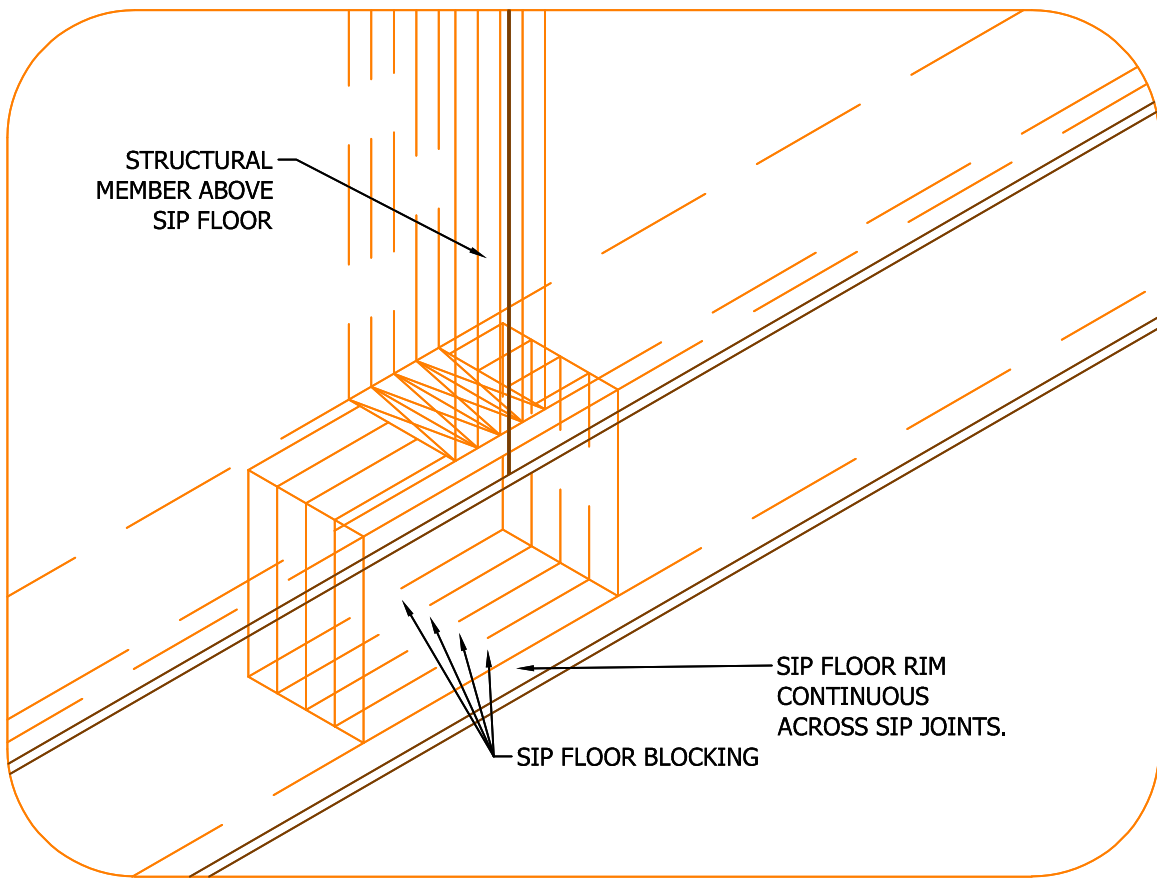


Rev: 4/28/2022

EPT-800

CAPILLARY 2X SILL BOTTOM PLATE  
SIP FLOOR CONNECTION





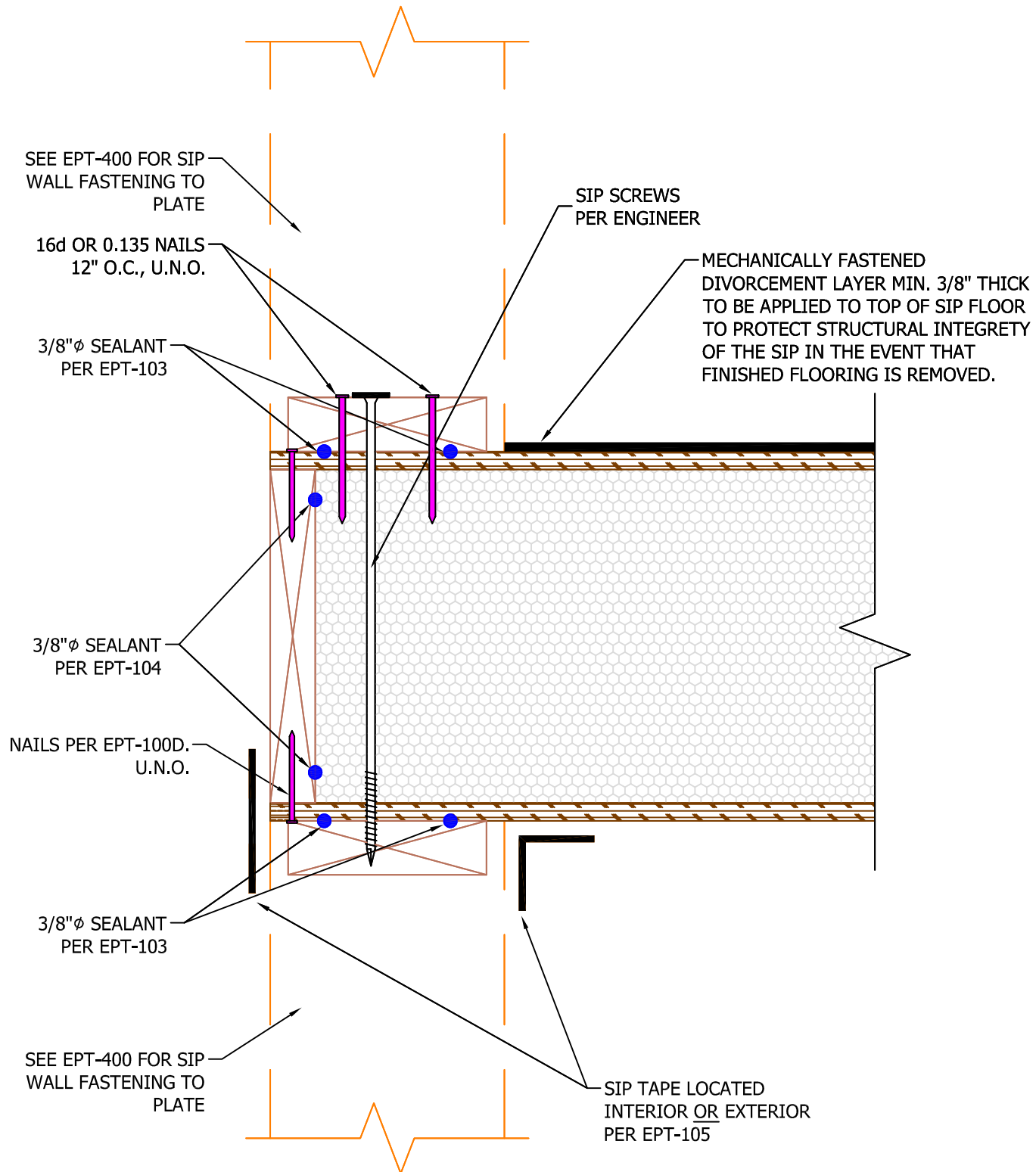
N.T.S.

Rev: 3/31/2022

EPT -801

SIP FLOOR POINTLOAD BLOCKING





N.T.S.

Rev: 7/19/2022

EPT -802

SIP FLOOR PLATFORM FRAMING





## **EXTREME PANEL TECHNOLOGIES**

### **Instructions for Applying Two-Part Expanding Foam Sealant**

Our foam sealant is a two-part expanding polyurethane foam with high expansion and quick curing. A typical curing time for expanding foam sealant is between 3 and 4 minutes, depending on the temperature. The units are self-contained in the sense that no other components are required for the foam to expand and cure. The chemistry of the foam formation is sensitive to temperature and the ratio in which the two parts are combined. When the foam expands and sets properly, it is a high density and high R-value foam which will adequately prevent the flow of air through any voids in the panels insulation or connections of panels together to minimize the chance for air & moisture to be transported through these areas. Examples of these areas are ridge, valley, & eave connections.

*The following is a list of hints and suggestions that supplement the manufacturer's instructions for successful use of this product.*

- 1) A vinyl tube can be added to the end of the tip to assist in reaching hard-to-reach places such as the bottom of ridge cuts. Suitable hose can be purchased at any reasonable hardware store. Hoses are reusable and transferable from one kit to the next, even after several months provided that the hose either remains attached to a tank or is suitably plugged to prevent air from contacting the chemicals in the hose.
- 2) Use of foam sealant in cold weather requires special care. Watch for the following:
  - 1) Cold tanks (the temperature indicator on the side of the tank shows the temperature of the contents of the tank, not ambient air temperature.) For best results, the tank contents should be at 75 F or warmer.
  - 2) Holes in the seams will need to be placed closer together.
  - 3) Foam often tends to be dry and crumbly which signifies a slightly "A" rich foam. (This is not a problem – the foam will pick up moisture from the atmosphere and soften in time.)
- 3) Apply the foam in dry conditions and to dry materials. ***DO NOT apply the foam in wet conditions or to wet materials.*** Water will cause the propellant to disintegrate and prevent proper expansion and curing.



- 4) When foaming in a ridge or valley connection, make sure to get foam applied all the way through the panels to the inside skin to make sure all voids are filled adequately.
- 5) To foam in an eave detail like the L-Shaped Wedge, after the panels are installed drill holes every 12"-18" through the 2x material making sure to take special care if any electrical wiring was run in the void behind the wedge. Then fill every other hole with foam sealant for 4-10 seconds depending on the temperature and how much foam remains in the tank. Make sure that foam comes out of the holes which had no foam placed in them. If no foam comes up the middle holes, you will need to increase the length of time that you spray the foam sealant into the holes. (Note: Make sure you do a test shot on the next tank before spraying in the seam.)
- 6) If it is required to foam seams in the panels, first drill holes to the foam chase 12-18" apart over the whole roof prior to starting to foam. Then fill every other hole with foam sealant for 4-10 seconds depending on the temperature and how much foam remains in the tank. Make sure that foam comes out of the holes which had no foam placed in them. If no foam comes up the middle holes, you will need to increase the length of time that you spray the foam sealant into the holes. After the foam has cured, go back and drill new holes in the locations where no foam came up the middle holes and drill new holes to determine the extent of the foam sealant and then re-foam to fill any voids. If you think the foam has not set up in the seam, drill test holes along the seam to determine if it has or not. If the foam has completely collapsed, new foam can be put in the existing holes. (Note: Make sure you do a test shot on the next tank before spraying in the seam.) Methodically foam each seam so every seam on both sides of the spline and every open seam is adequately foamed.

# OPERATING INSTRUCTIONS

# English

## FROTH-PAK™ Polyurethane Foam System

### WARNING

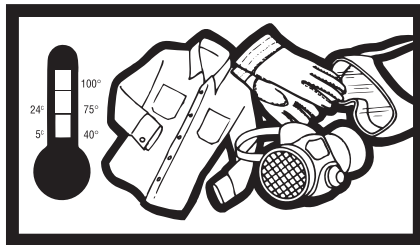
Before using *Froth-Pak™* polyurethane foam, please read and follow the instructions on this sheet.

### CONTENTS

HCFC Complete Kit of *Froth-Pak* polyurethane foam

- 2 Steel tanks of *Froth-Pak* foam (1 iso, 1 polyol)
- 1 *Insta-Flo™* dispenser and hose assembly
- 1 assortment Anti-Crossover Nozzles
- 1 Petroleum jelly packet (5g)
- 1 Operating instruction sheet
- 1 Wrench 5/8" (*Froth-Pak* 600 kit only)

### PERSONAL PROTECTION



**ALWAYS WEAR PROTECTIVE EYEWEAR, GLOVES, AND CLOTHING WHEN OPERATING.**

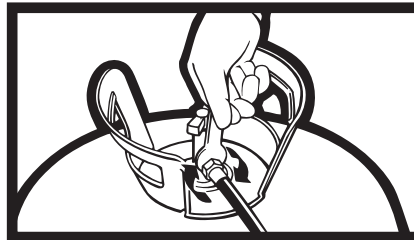
**USE ONLY WITH ADEQUATE VENTILATION OR APPROPRIATE RESPIRATORY EQUIPMENT.**

### GETTING THE KIT READY

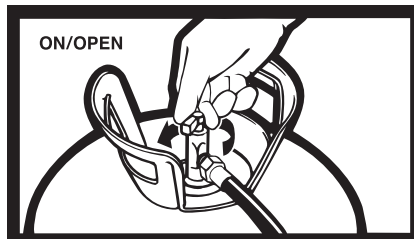
- 1) This instruction sheet is packed in a reusable bag with an assortment of Anti-Crossover Nozzles, and a petroleum jelly packet (5g). The *Insta-Flo* dispenser and hose assembly is connected to the chemical tanks. Lift the *Insta-Flo* dispenser and hose assembly from the box and fully uncoil hose.
- 2) Free the perforated section in upper section of the box (near the locking tab that retained the lid), and bend it down to allow the hoses to enter into the two cutouts provided.



- 3) Apply a coating of petroleum jelly to the inside face of the *Insta-Flo* dispenser. This makes cleaning of the dispenser face much easier and extends the effective life of the *Insta-Flo* dispenser.



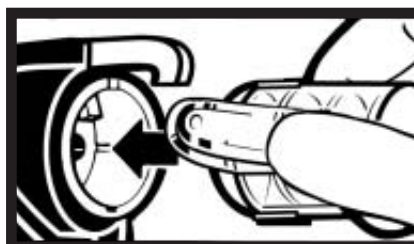
- 4) **For users of *Froth-Pak* 600 polyurethane foam.** Using the wrench provided, tighten the hose assemblies for both "A" and "B" valves until both are tight. The enclosed wrench is intentionally designed to warp or bend if excessive pressure is applied.



- 5) Turn the tank valves on fully, noting the initial movement of chemical through the clear hoses as a confirmation of flow.



- 6) Purge the system into a waste container by activating the trigger of the *Insta-Flo* dispenser. When streams are equal, release the trigger, clean the chemical from the dispenser face with a clean rag, and reapply petroleum jelly.



- 7) Select either a clear (caulking) or blue (spray) Anti-Crossover Nozzle. Insert it firmly into the front of the *Insta-Flo* dispenser. Be sure the dispenser clips the nozzle firmly in place.

### USING THE KIT

**Like all foam kits, replace nozzle when nozzle has not been used for more than 30 seconds.** Nozzle is removed by firmly depressing the yellow ejector located on the top of the *Insta-Flo* dispenser.

Before applying foam, make a small test shot into waste container to verify foam quality.

- 1) Hold the *Insta-Flo* dispenser about 6" – 24" (15 cm – 60 cm) away from the area you intend to spray. Apply foam by squeezing trigger. Note yellow safety on the trigger must be depressed first, unlocking trigger. Move the *Insta-Flo* dispenser with a steady back and forth motion when dispensing foam.
- 2) Foam will expand and will be tack free within 60 seconds (3–4 minutes for slow rise formulas), and is fully cured in five minutes. It is recommended that foam be applied in layers of 2" or less in any single application layer.

Note: If the foam is to be injected into a hidden cavity, a test shot is recommended prior to each injection.

### TEMPERATURE

The temperature indicator on the side of the tank shows the temperature of the contents of the tank, not ambient air temperature. For best results the tank contents should be at 75° F (24° C) or warmer. *Froth-Pak* polyurethane foam can be applied effectively in cold air temperatures or on cool work surfaces (above freezing) provided the kit contents are at least 75° F (24° C).

### DISPOSAL

The cylinders should have all pressure vented and all the material removed to be considered empty cylinders. **DO NOT PUNCTURE THE CYLINDERS TO RELIEVE THE PRESSURE.**

The cured foam and the empty cylinders may be disposed of as a non-hazardous waste in accordance with state and local regulations. Landfilling may have special requirements depending on local regulations. These regulations should be reviewed to insure compliance. Do not dispose of pressurized tanks.

# OPERATING INSTRUCTIONS

# English

## TROUBLESHOOTING

**If your spray pattern becomes noticeably different** (i.e. cone spray changes to stream), this may be caused by dispensing foam with a used nozzle. Always inspect a nozzle prior to dispensing to make sure you have an unused nozzle mounted in the *Insta-Flo* dispenser.

**If the foam or spray pattern does not react properly**, replacing the nozzle will usually correct the problem. If the problem persists, remove the nozzle and carefully activate the dispenser into a waste container. Two chemical streams of approximately equal volume should flow. If streams are unequal a blockage has occurred. Shut off the tank valve on the side that is flowing properly and activate the trigger full force for 15 seconds. Once the blockage is freed turn off all tank valves. Clean any chemical from the face of the *Insta-Flo* dispenser with a clean rag and reapply petroleum jelly. Insert an unused nozzle, open all valves and dispense a test shot into a waste container. After curing check the foam quality.

### **If problems still occur, stop foaming.**

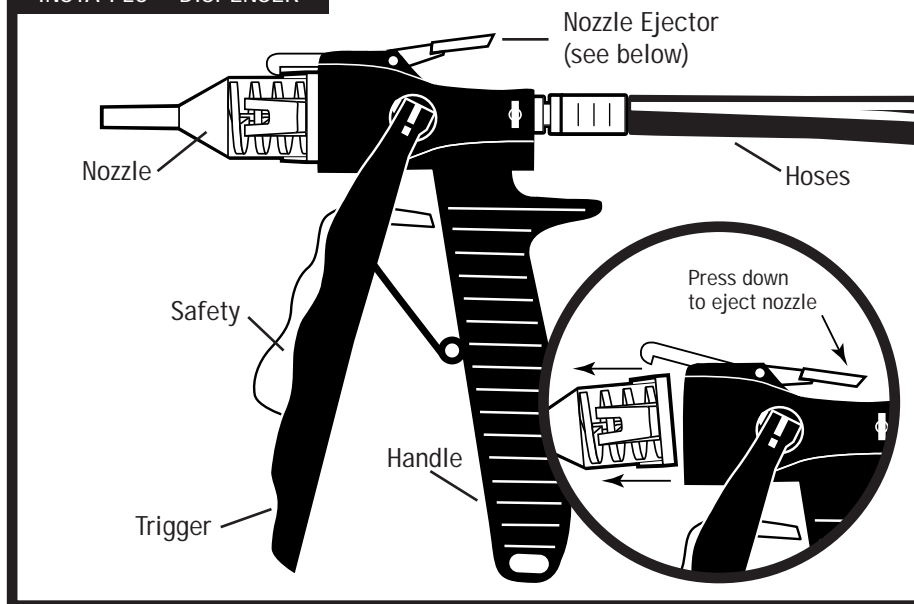
Turn off chemical tank valves, eject the used nozzle, and release chemical line pressure by activating the dispenser into a waste container. Slowly loosen the hose connections at the tank valves. Clean chemical from the threads and replace with a new *Insta-Flo* dispenser/hose assembly. If the replacement of the *Insta-Flo* Dispenser/Hose Assembly does not solve the problem, please contact our technical staff at 800-868-1183. Note: A variety of foam dispensing nozzles are available with alternative spray patterns and various dispensing rates.

**To prevent hoses from clogging**, if your dispenser has not been used for one week or longer, activate the system for a few seconds by turning on the tank valves and squeezing the trigger fully without nozzle to dispense twin streams into a waste container. This will clear and repressurize the hoses and should be done every week when the system is idle. Reapply petroleum jelly and reinsert used nozzle for storage.

## STORAGE

Store the *Froth-Pak* polyurethane foam system at 75° F (24° C), in a clean dry area. **DO NOT STORE AT TEMPERATURES ABOVE 120° F (49° C).** Avoid prolonged storage in direct sunlight or near heat sources. Store a partially used kit with the safety ON (do not tie

## INSTA-FLO™ DISPENSER



trigger down) and valves CLOSED. Remove used nozzle, reapply petroleum jelly to face of *Insta-Flo* dispenser, and reinsert the used nozzle. Do not bleed pressure off hoses during storage. See Troubleshooting above.

**WEAR PROTECTIVE EYEWEAR, GLOVES AND PROTECTIVE CLOTHING.**

**24 HOUR EMERGENCY PHONE (989) 636-4400.**

## FOAM QUALITY

**If friable or brittle**, the foam is iso rich, and a partial blockage of the polyol side exists. Clear the blockage from the polyol side. (See Troubleshooting.)

**If foam remains soft or mushy**, the foam is polyol rich and a partial blockage of the iso side exists. Clear the blockage from the iso side. (See Troubleshooting.)

## FIRST AID

Irritating to eyes, skin, and respiratory tract. May cause sensitization by skin contact and/or inhalation. Use in a well-ventilated area or wear a self-contained breathing apparatus. Call for Material Safety Data Sheet for additional information.

**EYE:** Flush with water for 15 minutes.

**SKIN:** Remove contaminated clothing; wash skin with soap and water.

**INHALATION:** Remove to fresh air.

**INGESTION:** Give large quantities of liquids. **DO NOT INDUCE VOMITING.**

**In ALL FIRST AID cases, CONSULT A PHYSICIAN.**

**KEEP OUT OF THE REACH OF CHILDREN.**



**THE DOW CHEMICAL COMPANY**  
1881 West Oak Parkway  
Marietta, Ga 30062

Order/Inquiries: 800.366.4740  
Fax: 800.326.1054  
Technical Support: 888.868.1183

[www.polyurethanesystems.com](http://www.polyurethanesystems.com)

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