



Standard Construction Details

Revision Date: July 21, 2025

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About Insulspan

The industry leader in structural Insulated Panels (SIPs).

Imagine an energy efficient product that lowers consumer energy bills, increases builder productivity and efficiency, and creates high performance structural envelopes. Insulspan Structural Insulated Panels (SIPs) do all this.

Discover the value Insulspan SIPs can offer you.

What are SIPs?

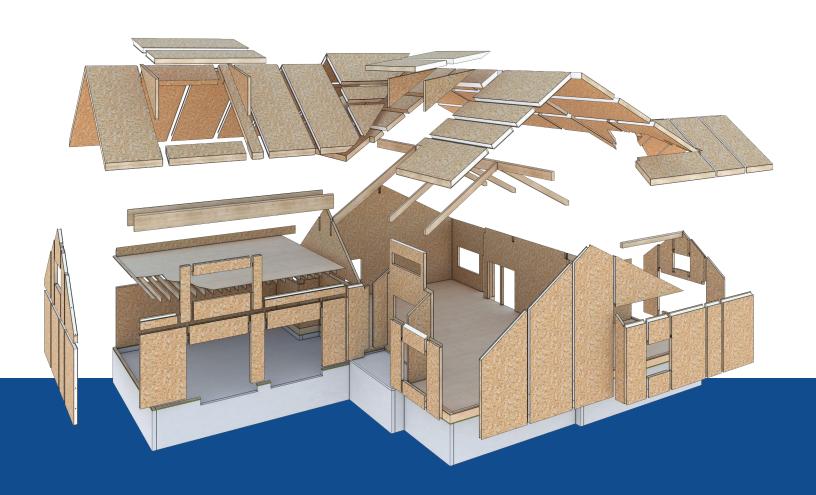
Our high-performance building system consists of insulated foam core sandwiched between two structural facings of oriented strand board (OSB).

SIPs vs. Stick Framing

SIPs Panels come with a whole host of benefits, including shorter construction times, lower energy bills, and smaller HVAC system requirements.

Advantages of Insulspan

The Insulspan SIP System offers superior energy efficiency, design flexibility, structural strength, increased construction speed and more



Revision Log

No.	Revision Date	List of revisions
01	July 21, 2025	Updated Insulspan logo is placed.
		2. Insulspan company website is added in the sheet.
		3. A separate sheet for General notes is added.
		4. Standard details are grouped based on the scenario/functionality.
		5. Title name and the sheet numbers are updated.
		New standard details are added.
		7. Standard details are established in color format with layer to each in the Autocad file - which is available to download now from www.insulspan.com .
		8. Hatches are updated and/or added.
		9. Several details are updated as per the present construction practice.



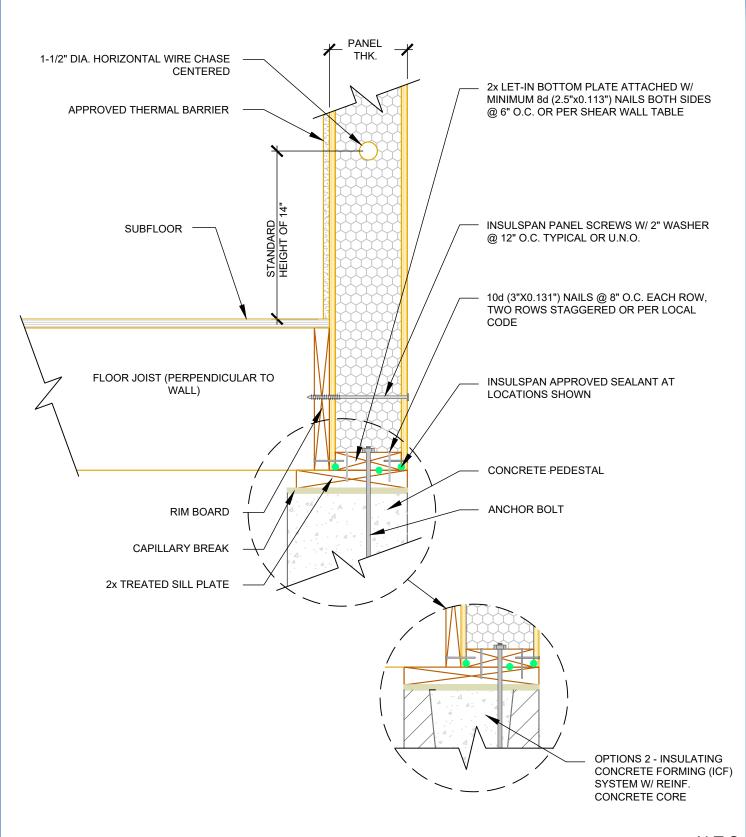
- 1. THESE TYPICAL DETAIL DRAWINGS ARE FOR INFORMATIONAL PURPOSED ONLY AND PROVIDE A TYPICAL FRAMEWORK FOR A SIP CONSTRUCTION PROJECT. THEY MAY NOT FULFILL ALL PROJECT-SPECIFIC REQUIREMENTS AND SHOULD ONLY BE USED UNDER THE CONSULTATION OF A PROFESSIONAL, SUCH AS A STRUCTURAL ENGINEER.
- 2. THE CONTRACTOR SHALL VERIFY ALL JOB SITE CONDITIONS AND RELATED DIMENSIONS BEFORE CONSTRUCTION.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFETY AND PROTECTION IN AN AROUND THE JOB SITE, INCLUDING ADJACENT PROPERTIES.
- 4. THE CONTRACTOR AND/OR OWNER SHALL ENSURE THAT APPLIED LOADS ON THE STRUCTURE REMAIN WITHIN THE DESIGN LIMITS OF THE STRUCTURAL MEMBERS BEFORE, DURING, AND AFTER CONSTRUCTION.
- 5. ALL BUILDING COMPONENTS USED IN CONJUNCTION WITH THESE DETAILS SHALL COMPLY WITH APPLICABLE LOCAL BUILDING CODES AND REGULATIONS.
- 6. THE CONSTRUCTION DETAIL DRAWINGS PROVIDED HERE SHALL BE USED IN CONJUNCTION WITH INSULSPAN'S FINAL CONSTRUCTION DRAWINGS AND INSTALLATION GUIDE. FAILURE TO FOLLOW THE INSTALLATION GUIDE AND CONSTRUCTION DETAILS MAY VOID THE PRODUCT WARRANTY.
- 7. INSULSPAN APPROVED SEAL TAPE SHALL BE APPLIED TO THE PREDOMINANT WARM SIDE OF THE PANEL JOINT.
- 8. ALL SIP SCREW FASTENERS ARE BASED ON TYPICAL MINIMUM VALUES. ANY DEVIATION FROM THESE FASTENER DETAILS MUST BE SUPPORTED BY A DESIGN FROM A LICENSED ENGINEER AND/OR APPROVED BY THE INSULSPAN DESIGN TEAM.
- 9. ALL STRUCTURAL MEMBERS AND CONNECTIONS, EXCEPT FOR SIP PANELS AND THOSE SPECIFIED IN THESE DRAWINGS, SHALL BE SUPPLIED AND DESIGNED BY OTHERS.
- 10. 6" WIDE INSULSPAN APPROVED PANEL SEAL TAPE SHALL BE USED UNLESS NOTED OTHERWISE.
- 11. THE STANDARD DETAILS SHOWN HERE ARE NOT TO SCALE (NTS).



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GENERAL NOTES

REV 21-07-2025

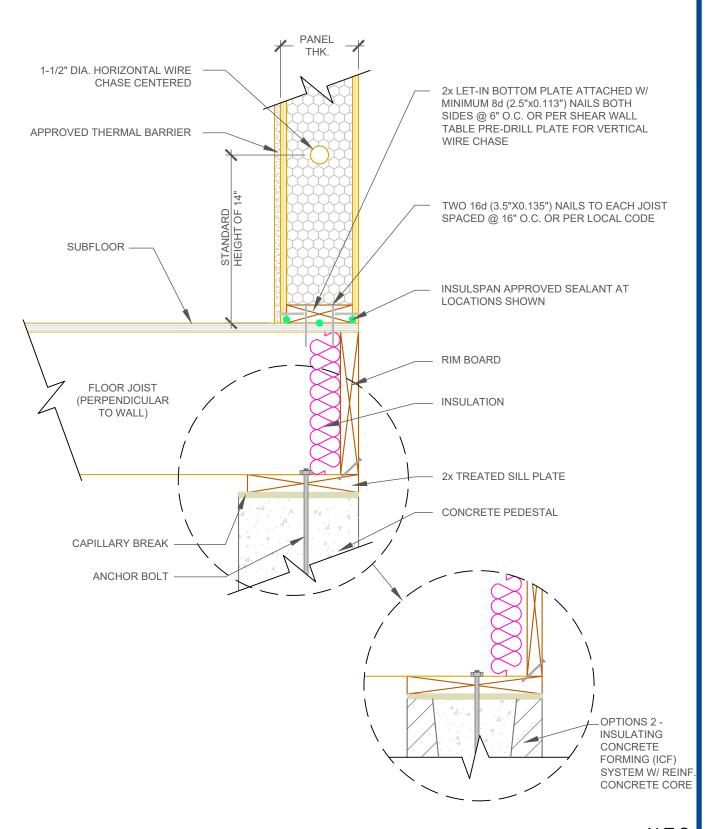




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RIM JOIST WITH CONCRETE PEDESTAL

REV 21-07-2025

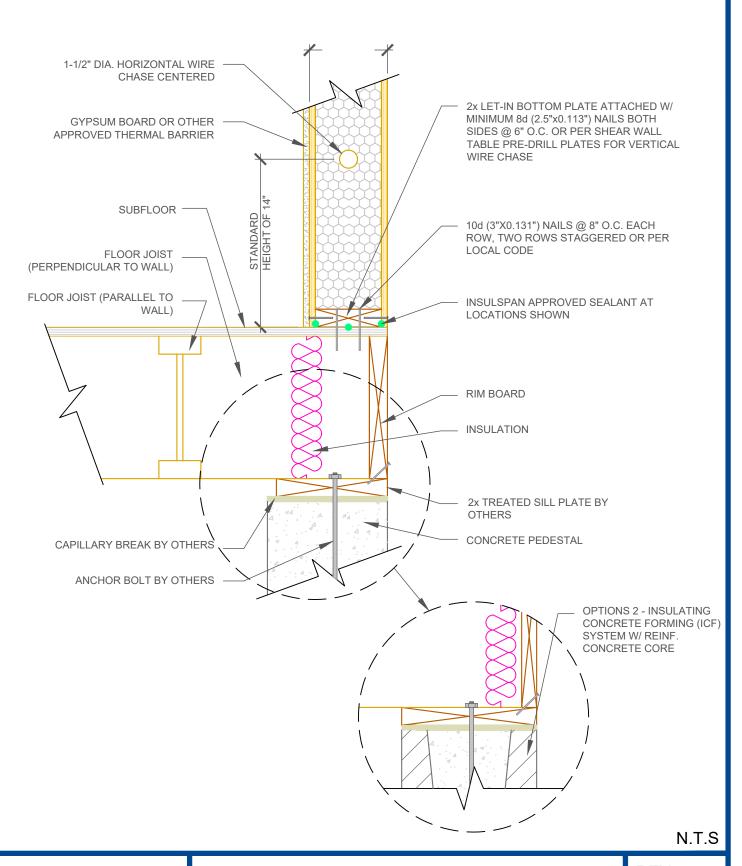




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RIM JOIST OVER CONCRETE PEDESTAL

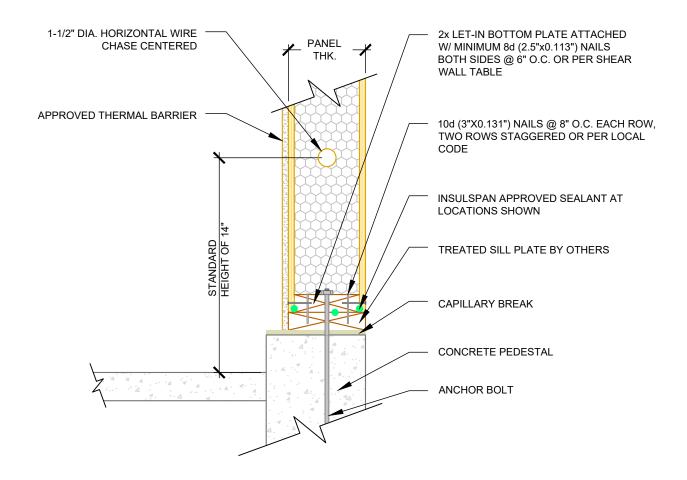
REV 21-07-2025





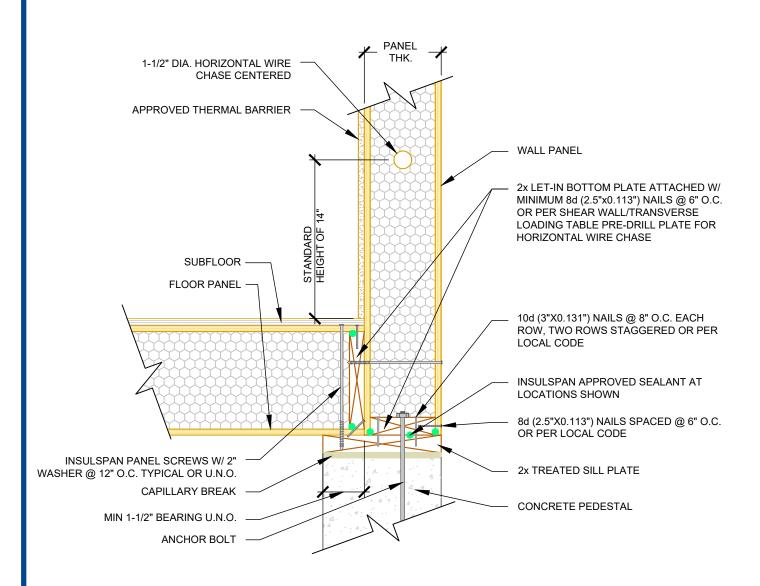
RIM JOIST WITH PARALLEL JOIST OVER CONCRETE PEDESTAL

REV 21-07-2025





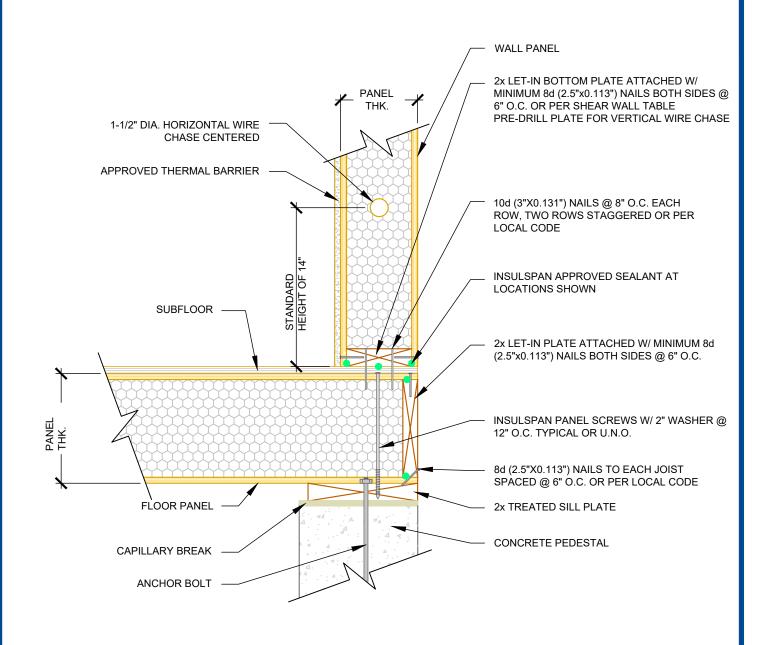
WALL OVER CONCRETE PEDESTAL/ CONCRETE SLAB REV 21-07-2025





FLOOR WITH CONCRETE PEDESTAL

REV 21-07-2025

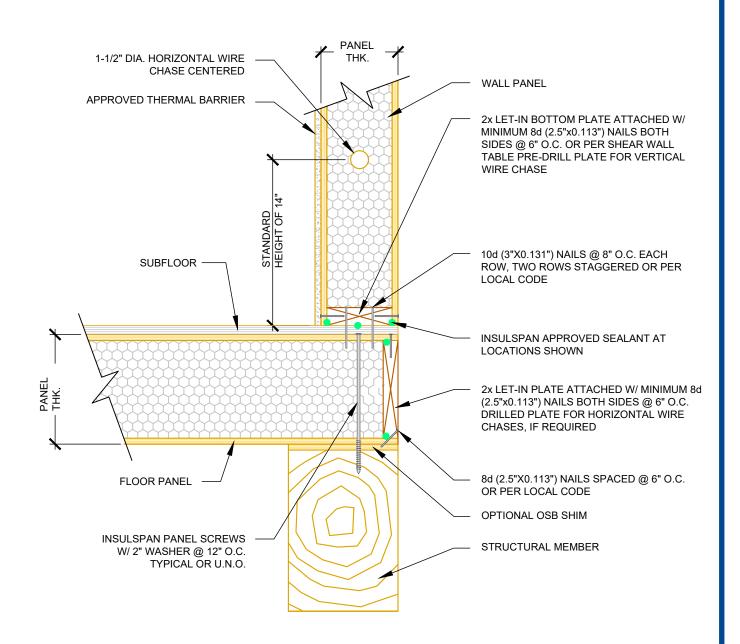




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FLOOR OVER CONCRETE
PEDESTAL

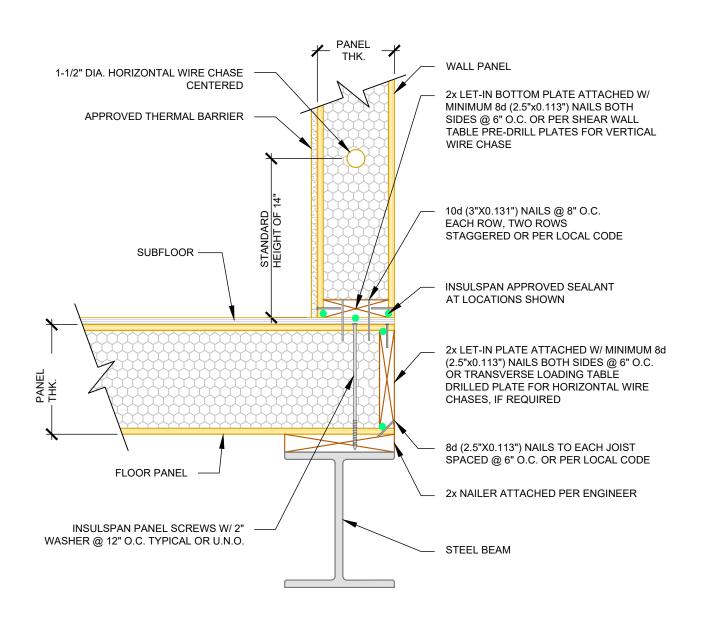
REV 21-07-2025





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FLOOR OVER STRUCTURAL MEMBER - LUMBER REV 21-07-2025

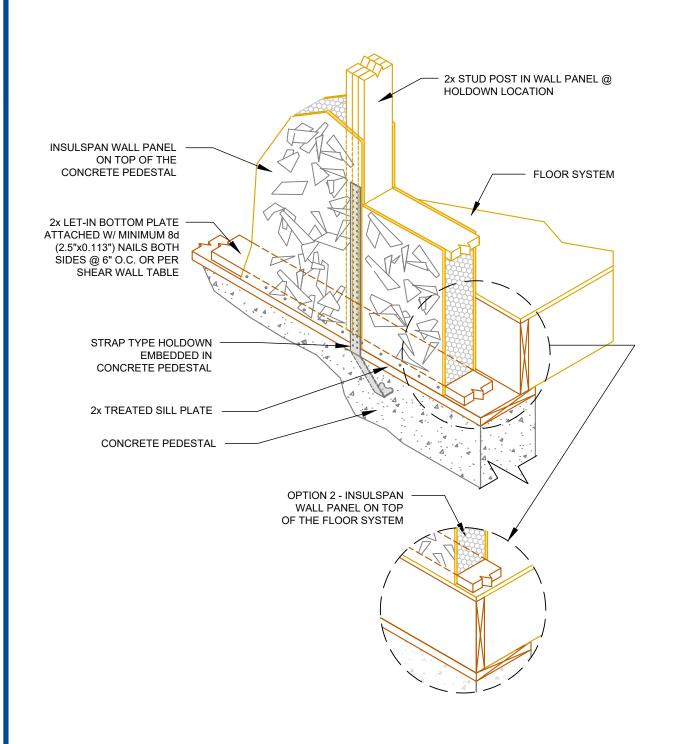




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FLOOR OVER STRUCTURAL MEMBER - STEEL

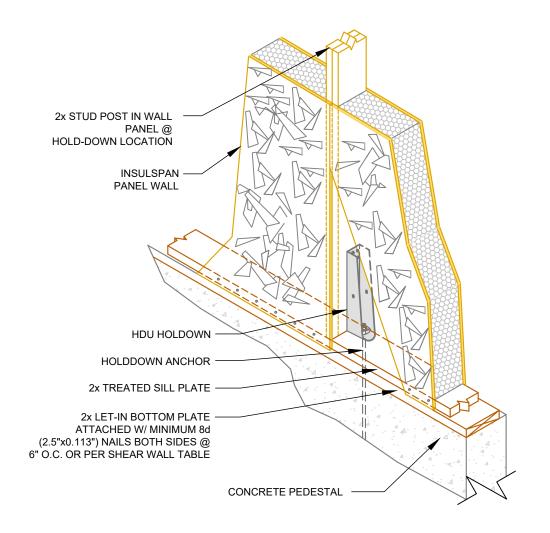
REV 21-07-2025





STRAP TYPE HOLD-DOWN

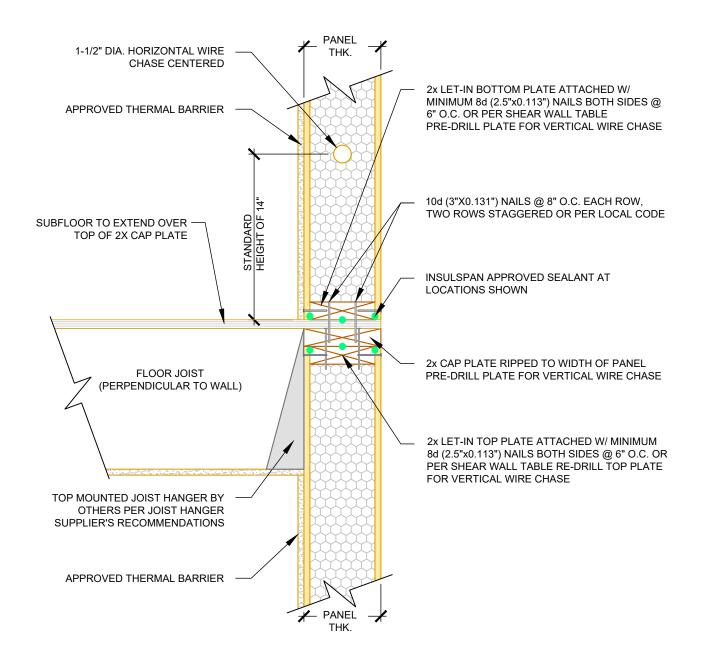
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HDU TYPE HOLDDOWN

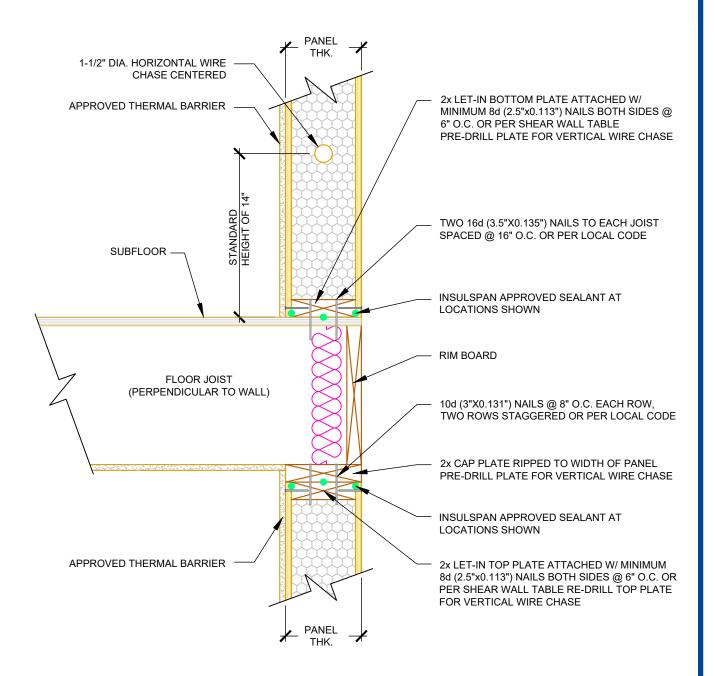
REV 21-07-2025





FLOOR JOIST HANGER ON WALL

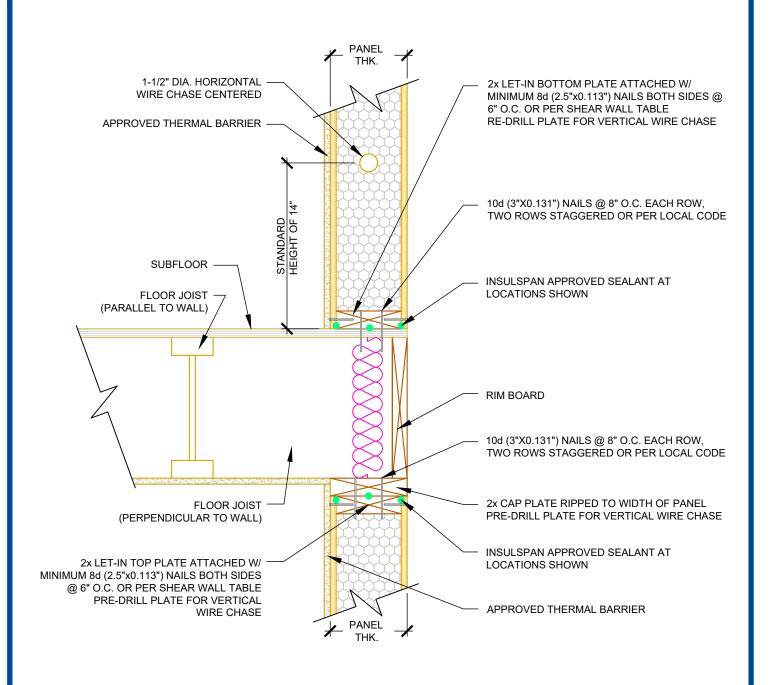
REV 21-07-2025





FLOOR JOIST ON WALL

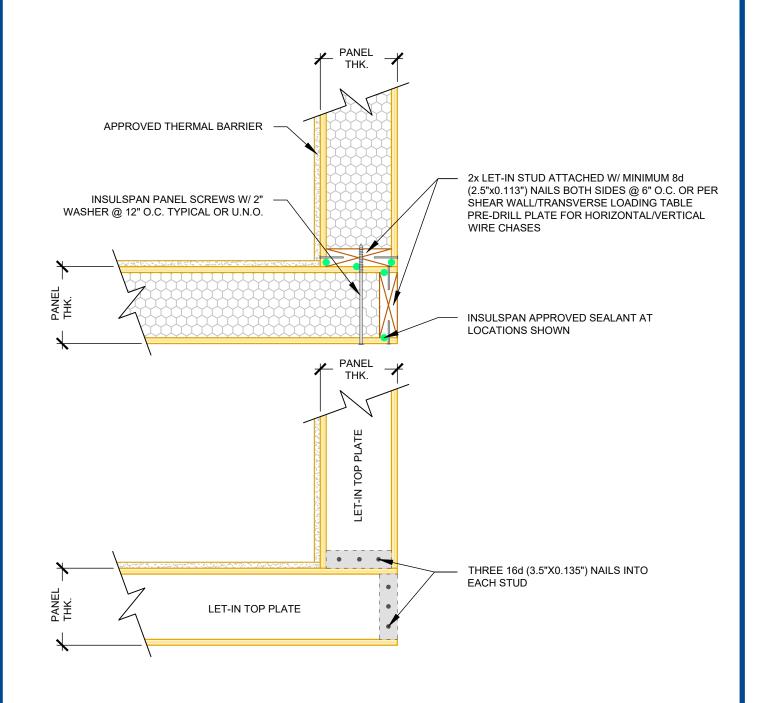
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FLOOR JOIST WITH PARALLEL JOIST ON WALL

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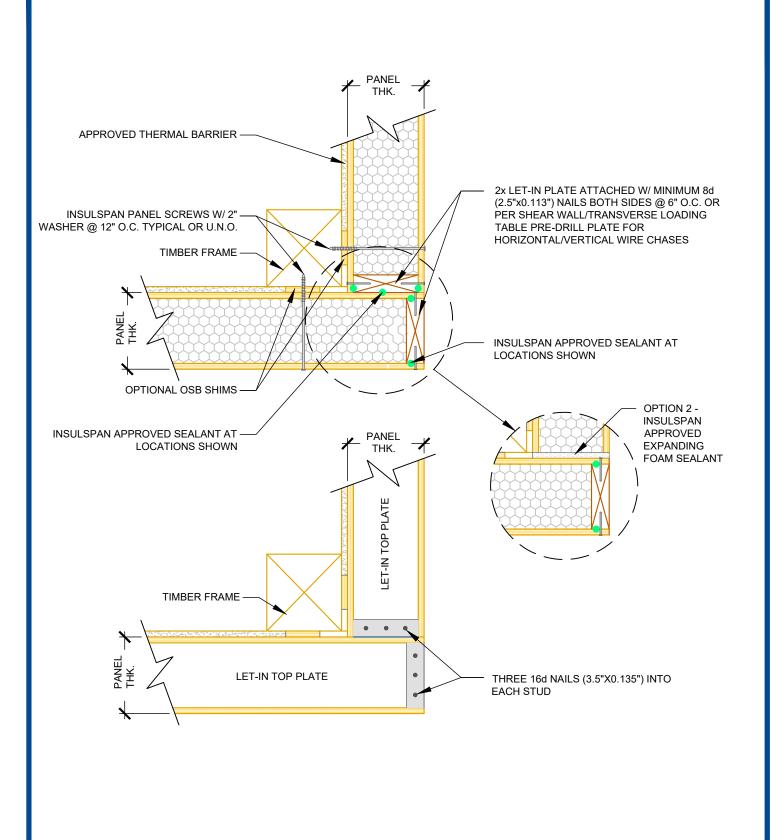




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WALL CORNER

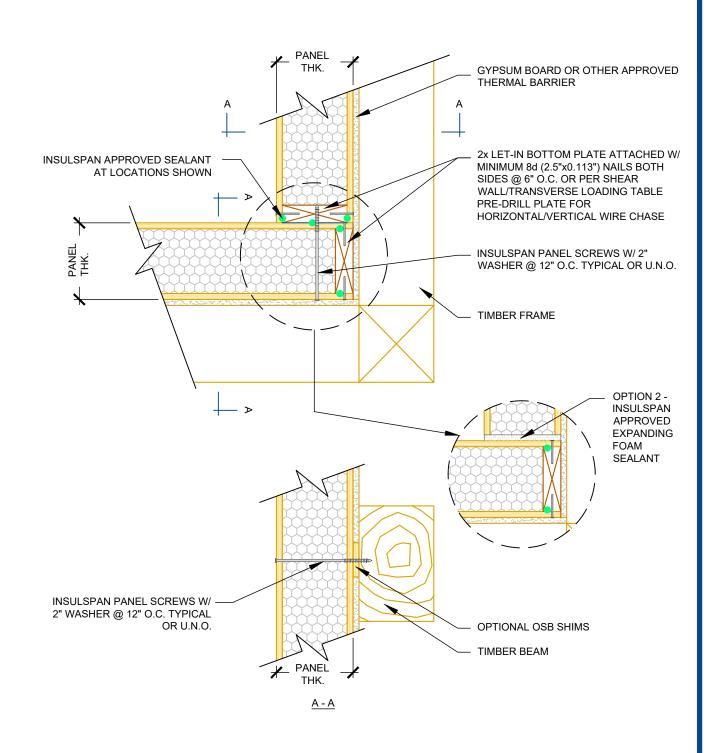
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WALL CORNER WITH TIMBER FRAME 21-07-2025 INSIDE

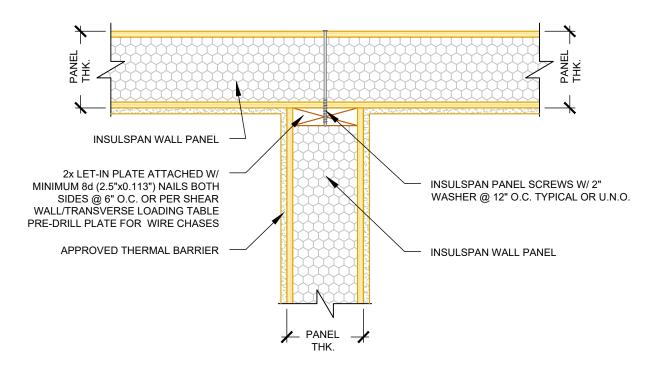
REV





WALL CORNER WITH TIMBER FRAME OUTSIDE

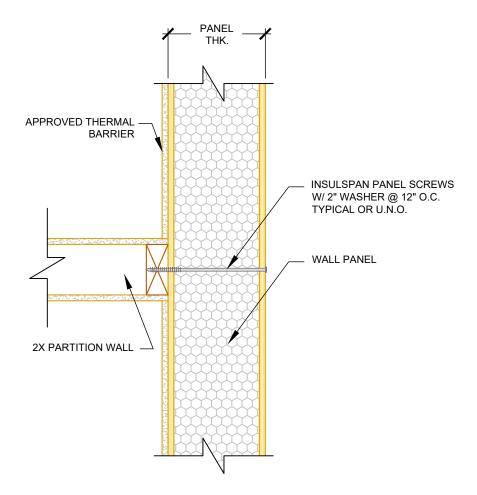
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WALL PERPENDICULAR CONECTIONS

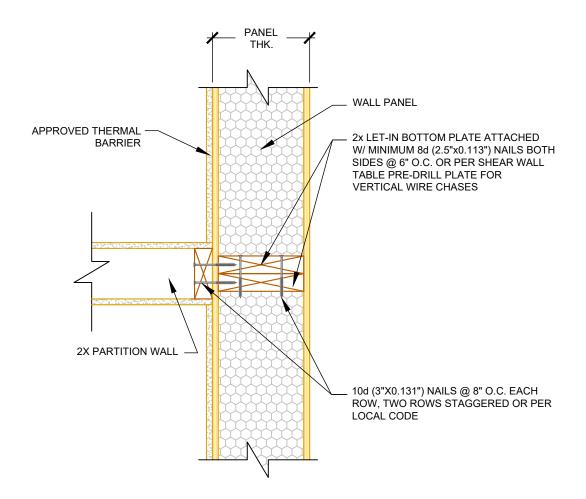
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WALL TO PARTITION WALL

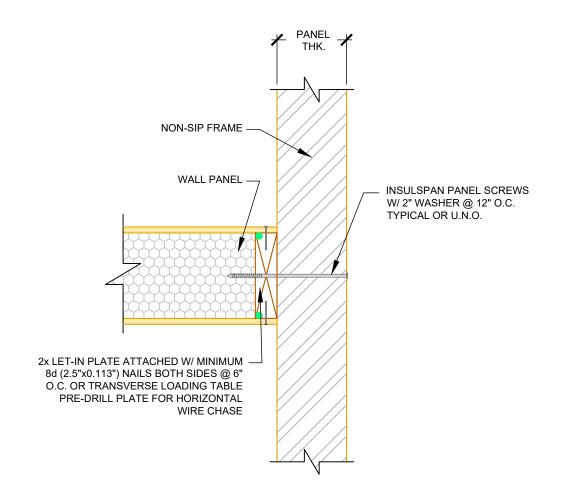
REV 21-07-2025





WALL SPLINE TO PARTITION WALL

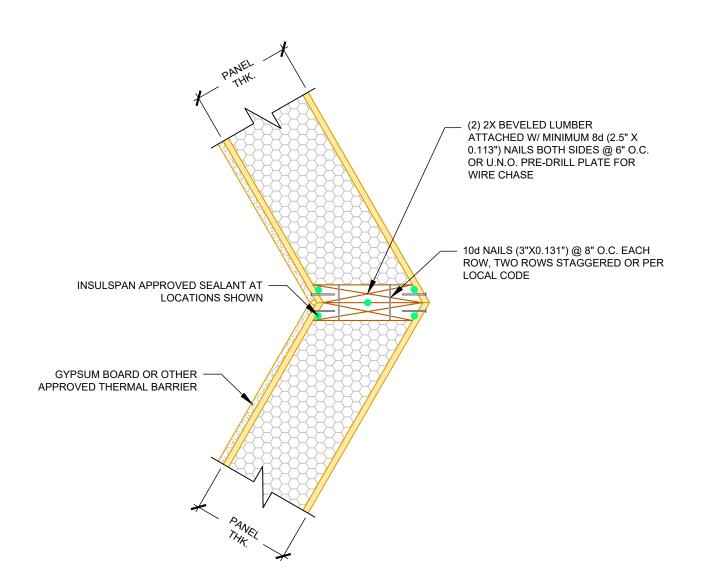
REV 21-07-2025





WALL END TO NON-SIP FRAME

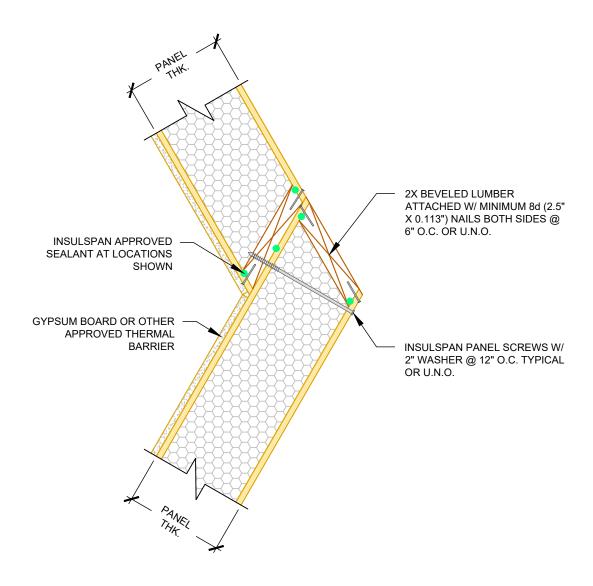
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ANGULAR WALL WITH PARALLEL END BLOCKING

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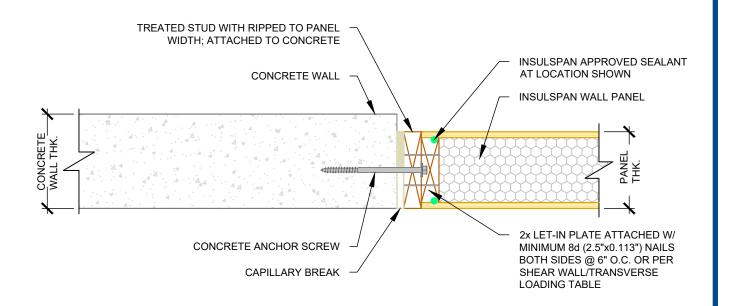




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ANGULAR WALL WITH OVERLAY
END BLOCKING

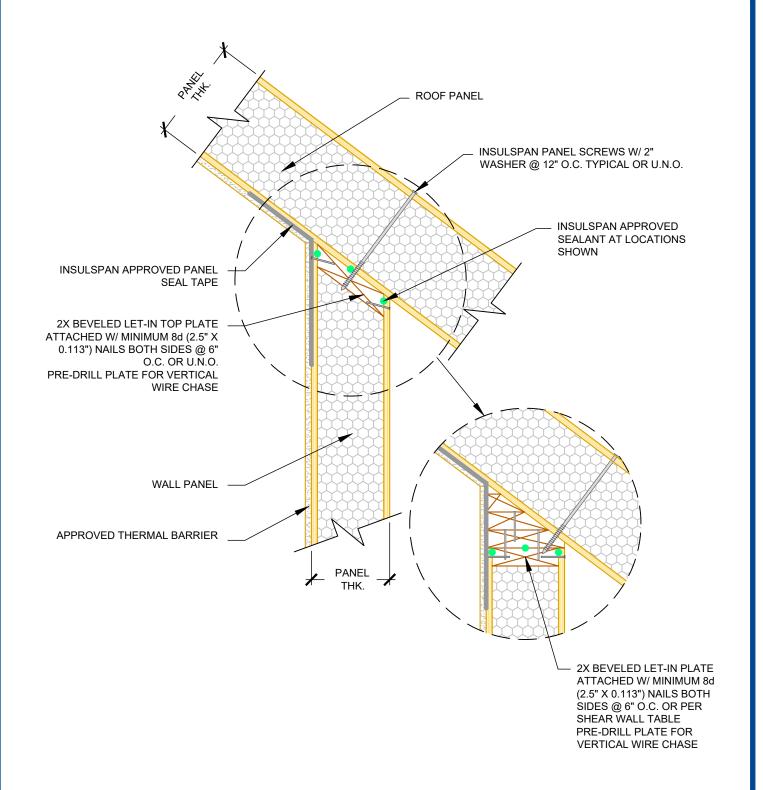
REV 21-07-2025





WALL END TO CONCRETE WALL

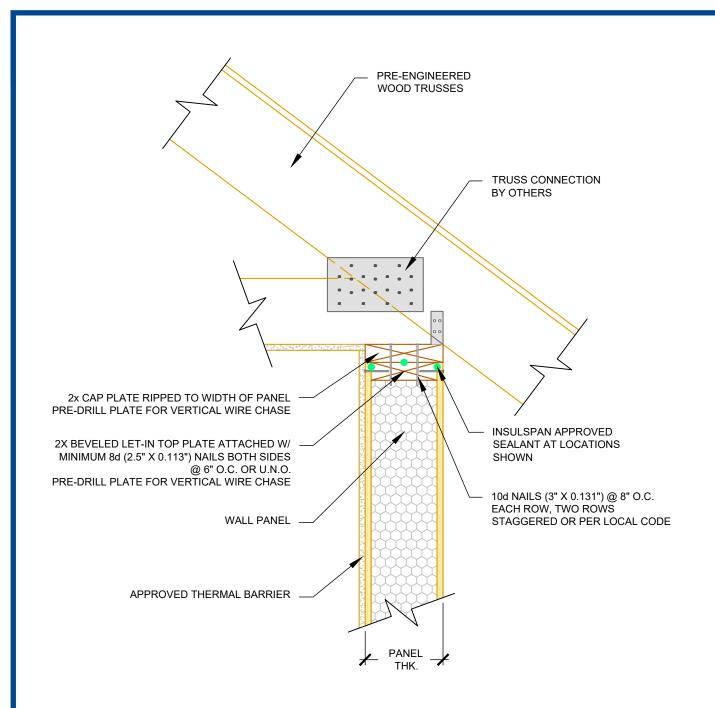
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WALL TO ROOF

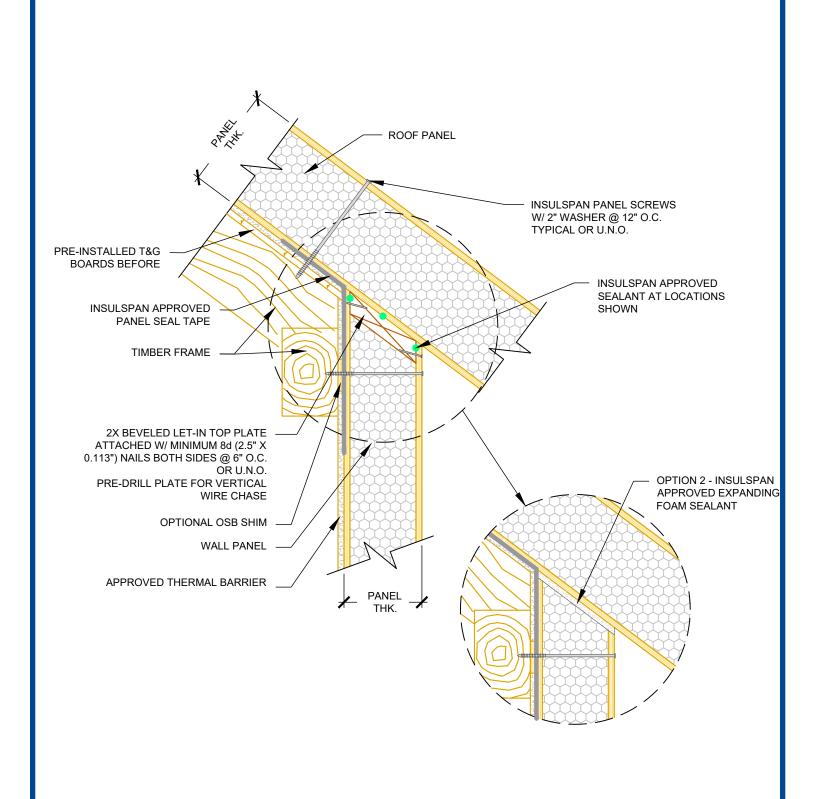
REV 21-07-2025





WALL TO PRE-ENGINEERED TIMBER
TRUSS

REV 21-07-2025

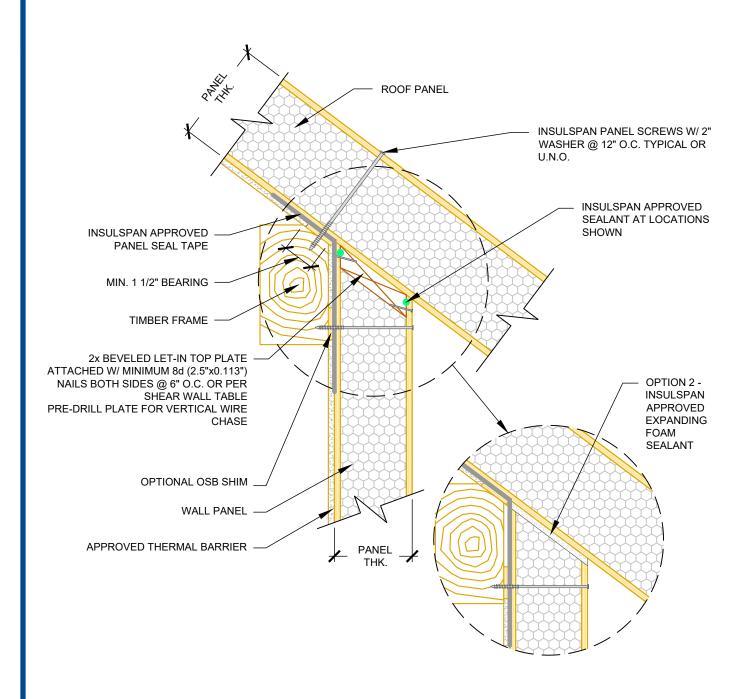




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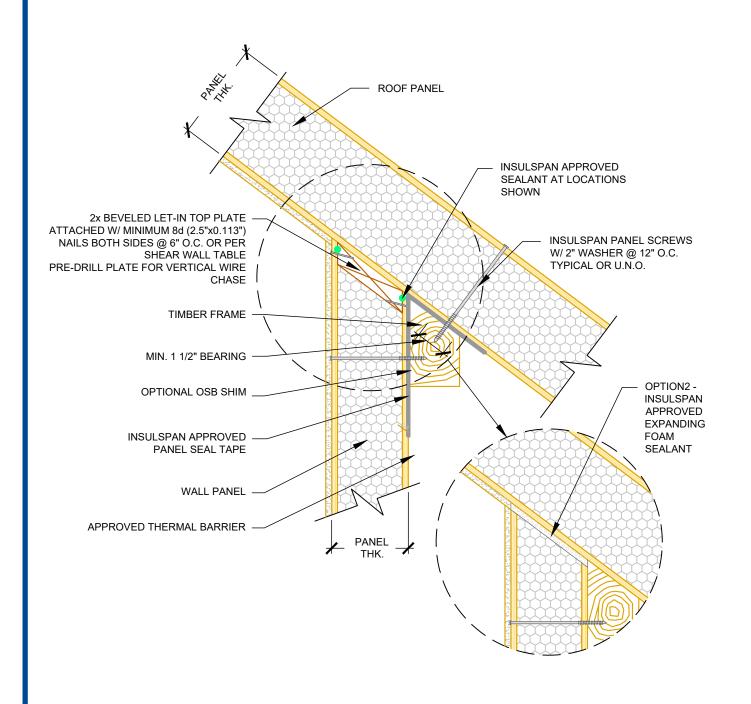
WALL TO ROOF WITH INTERIOR TIMBER FRAME

REV 21-07-2025





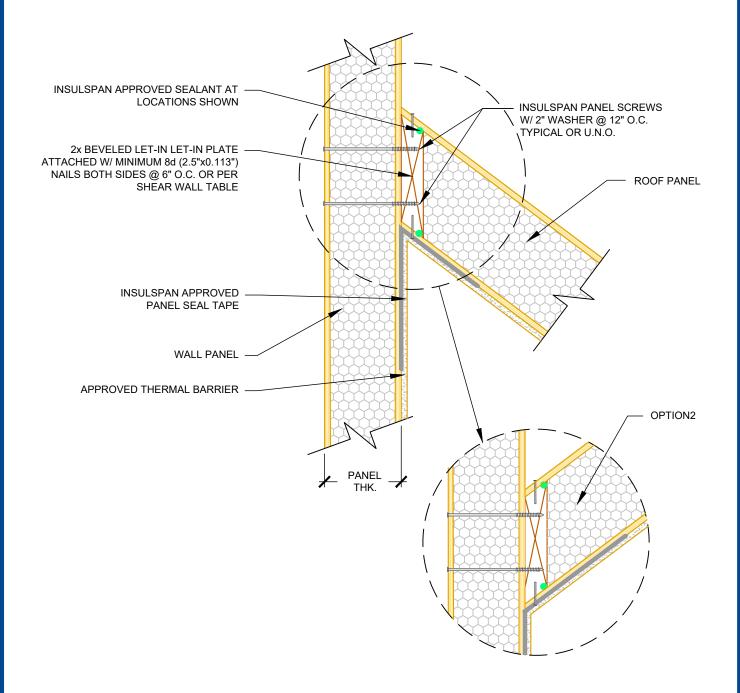
WALL TO ROOF WITH INTERIOR LUMBER RAFTER REV 21-07-2025





WALL TO ROOF WITH EXTERIOR LUMBER RAFTER

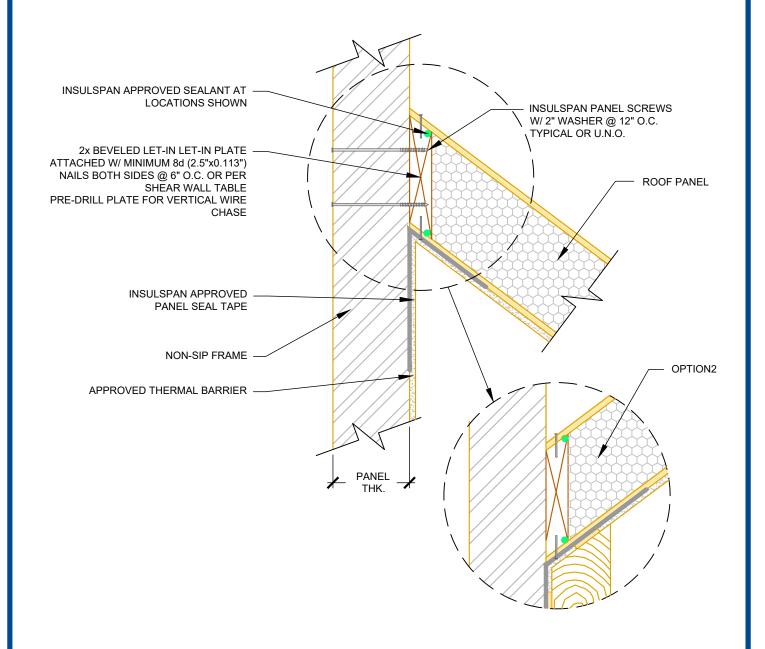
REV 21-07-2025





ROOF LEDGER TO WALL

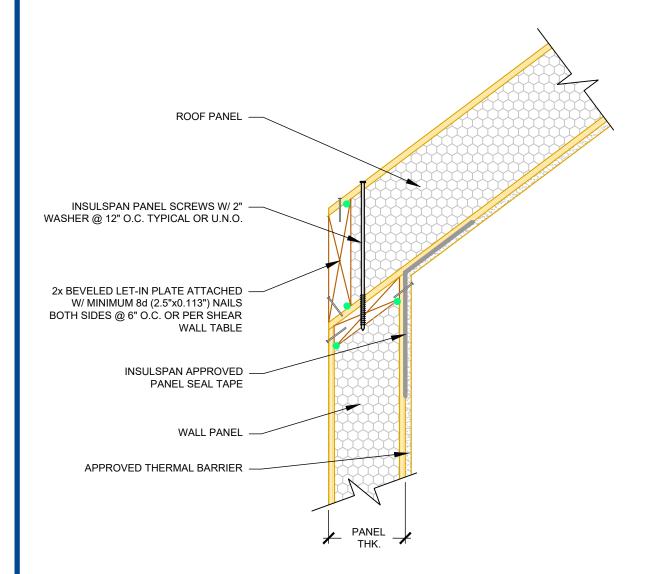
REV 21-07-2025





ROOF LEDGER TO NON-SIP WALL

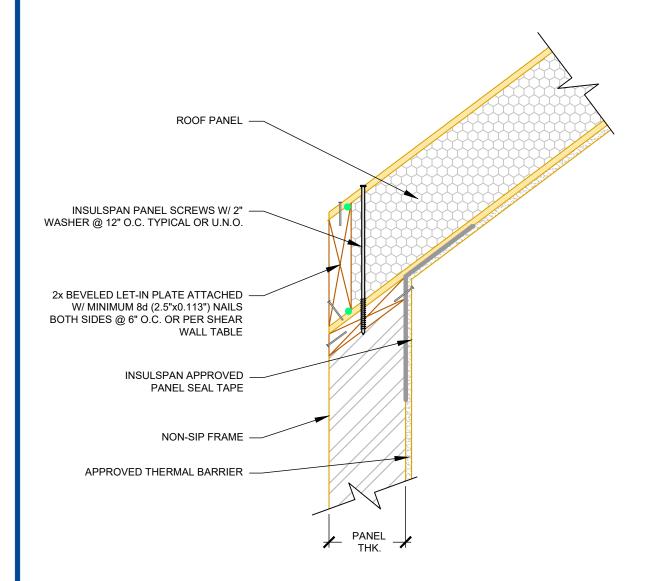
REV 21-07-2025





WALL TO ROOF EAVE WITH NO OVERHANG

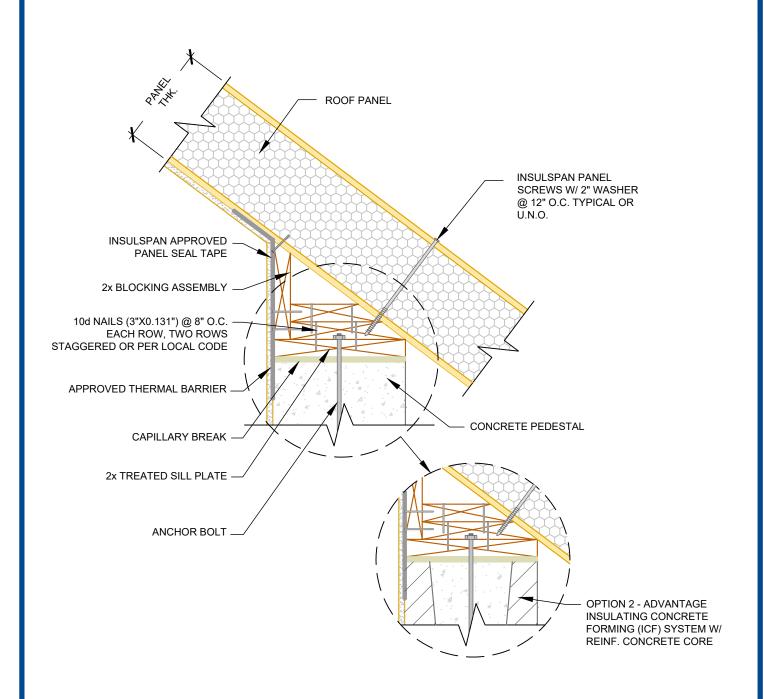
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NON-SIP WALL TO ROOF EAVE WITH 21-07-2025 NO OVERHANG

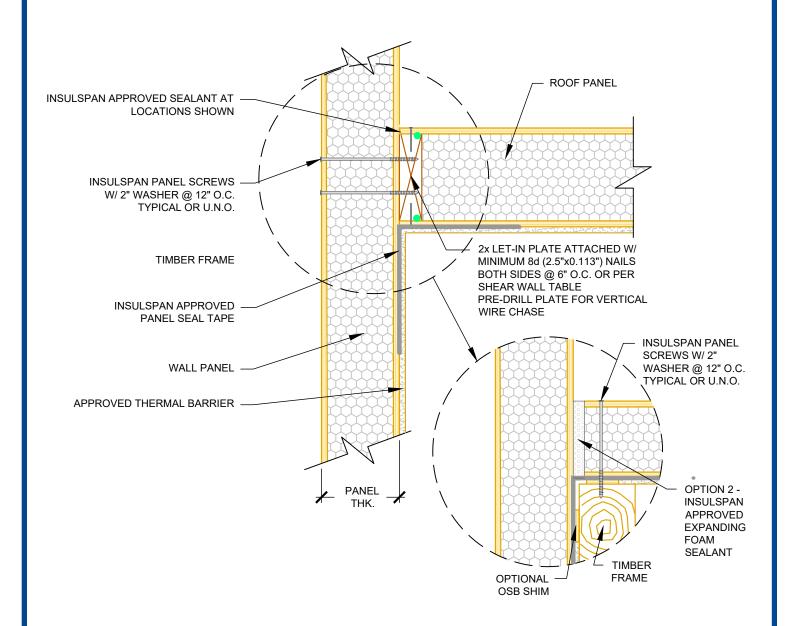
REV





ROOF TO ICF CONCRETE WALL

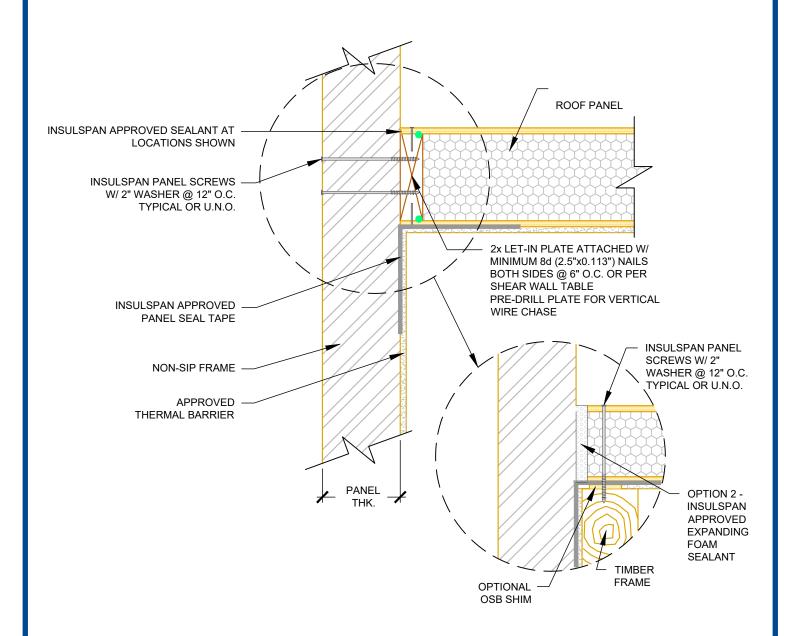
REV 21-07-2025





WALL TO FLAT SIP ROOF

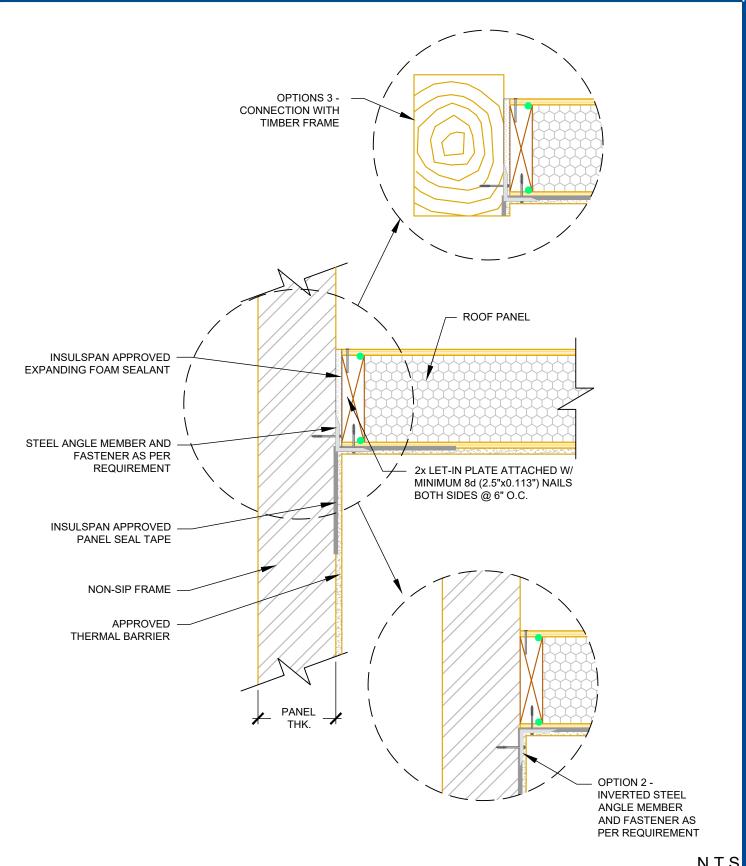
REV 21-07-2025





NON-SIP WALL TO FLAT SIP ROOF

REV 21-07-2025



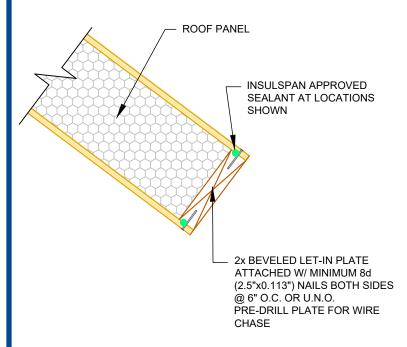




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NON-SIP WALL TO FLAT SIP ROOF WITH STEEL ANGLE

REV 21-07-2025



INSULSPAN
APPROVED SEALANT
AT LOCATIONS
SHOWN

2x BEVELED LET-IN PLATE
ATTACHED W/ MINIMUM 8d
(2.5"x0.113") NAILS BOTH
SIDES @ 6" O.C. OR U.N.O.
PRE-DRILL PLATE FOR WIRE
CHASE

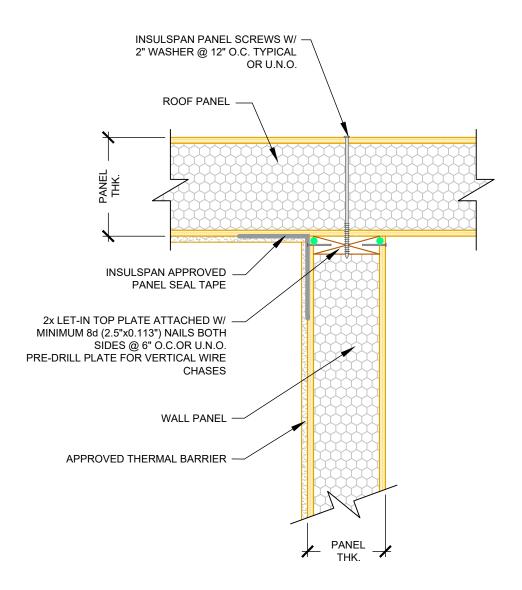
SQUARE CUT TYPE PLUMB CUT TYPE

N.T.S



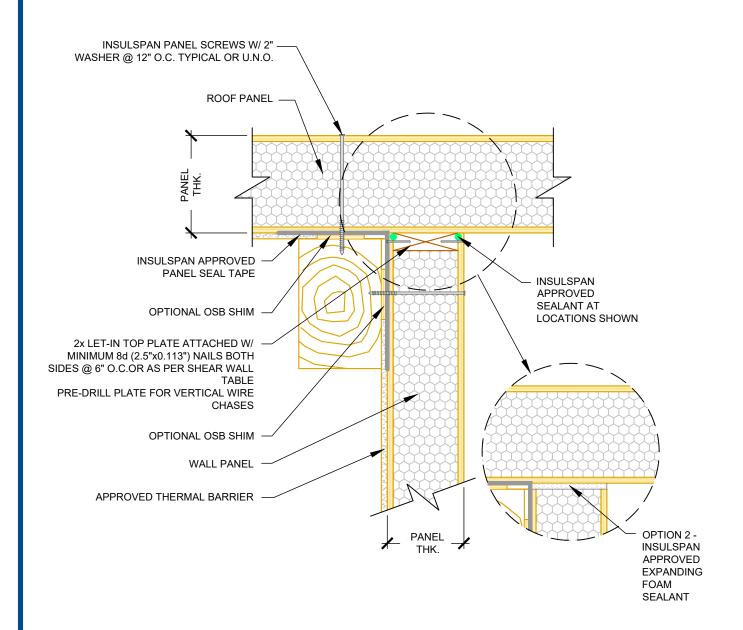
SIP ROOF END: SQUARE CUT & PLUMB CUT

REV 21-07-2025





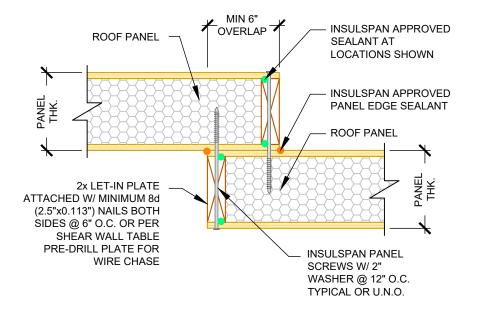
WALL TO FLAT SIP ROOF OVERHANG REV 21-07-2025





WALL TO FLAT SIP ROOF
OVERHANG WITH TIMBER FRAME

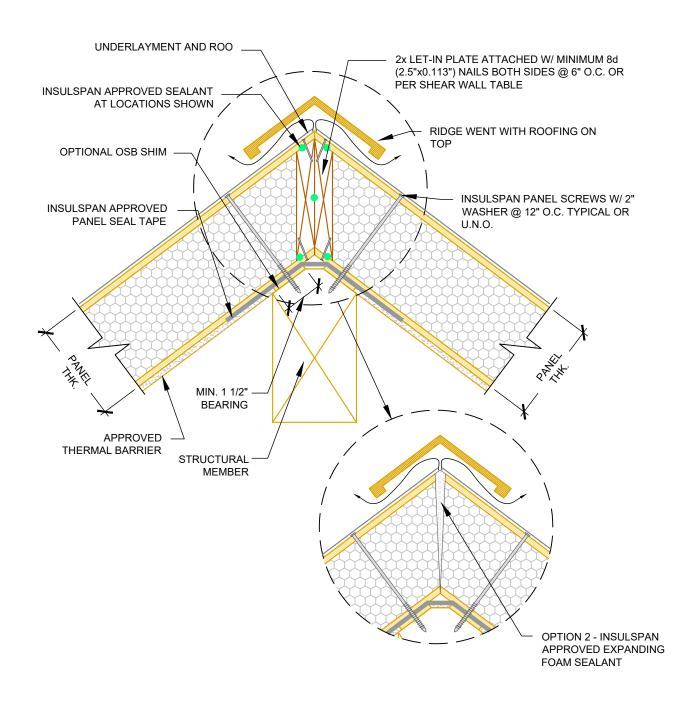
REV 21-07-2025





FLAT ROOFS WITH OVERLAY

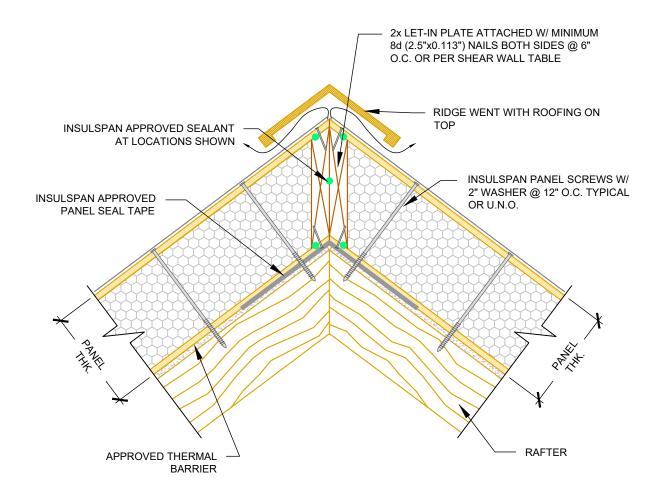
REV 21-07-2025





ROOF RIDGE WITH BEAM

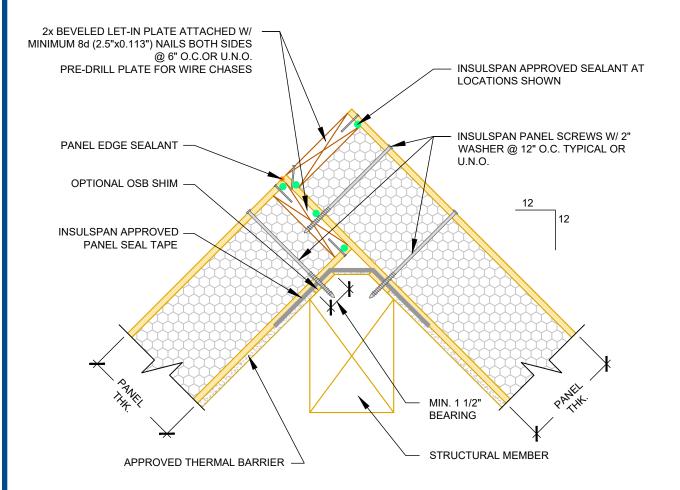
REV 21-07-2025





ROOF RIDGE OVER RAFTERS

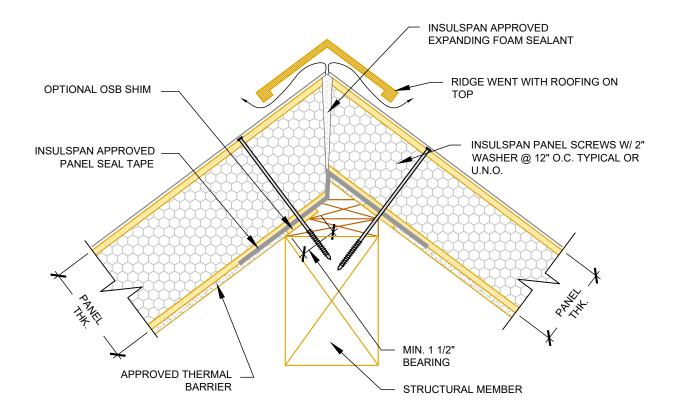
REV 21-07-2025





ROOF PANEL OVERLAY WITH RIDGE BEAM

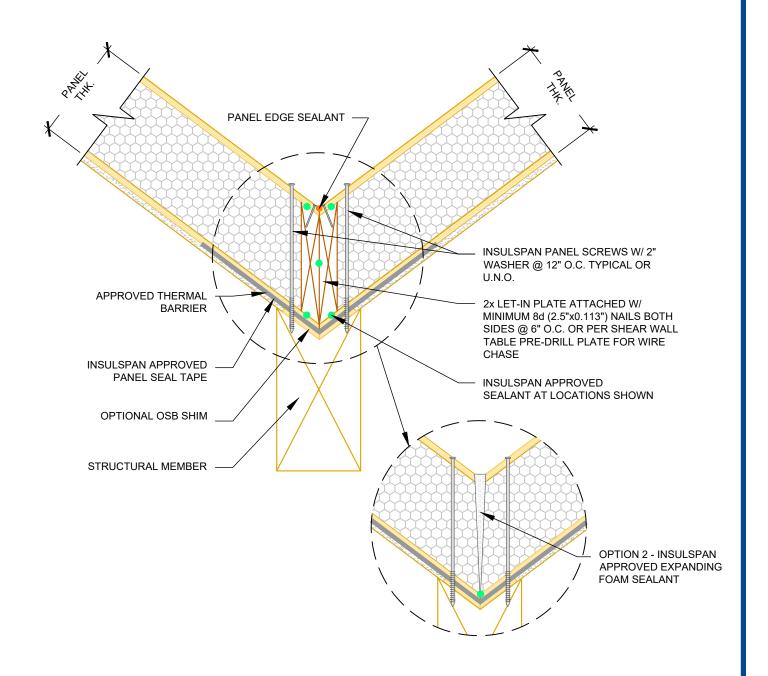
REV 21-07-2025





ROOF RIDGE WITH DIFFERENT THICKNESS

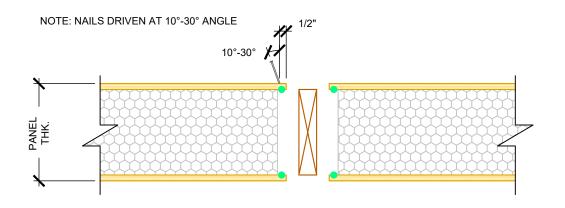
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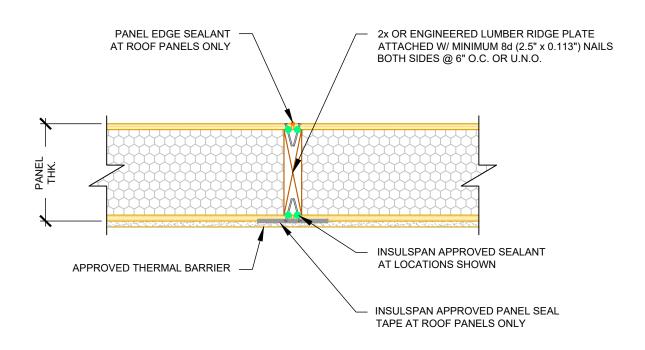




ROOF VALLEY WITH VALLEY BEAM

REV 21-07-2025

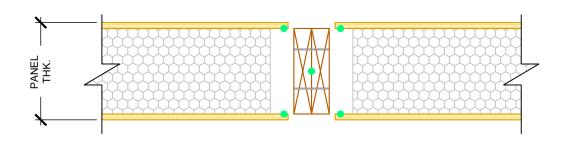


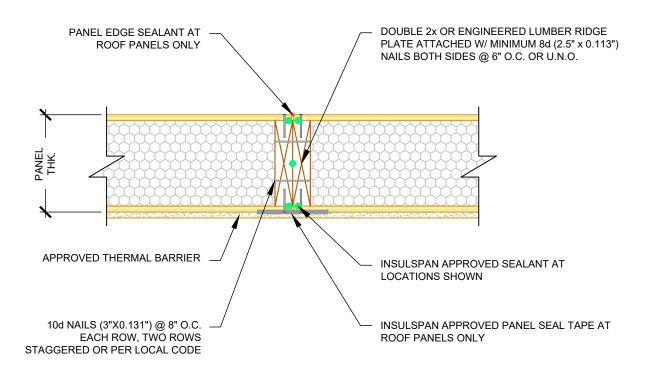




SINGLE LUMBER SPLINE

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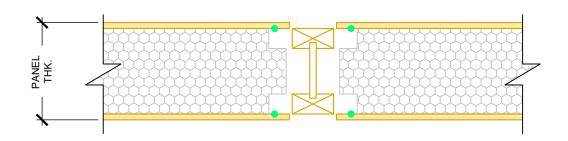


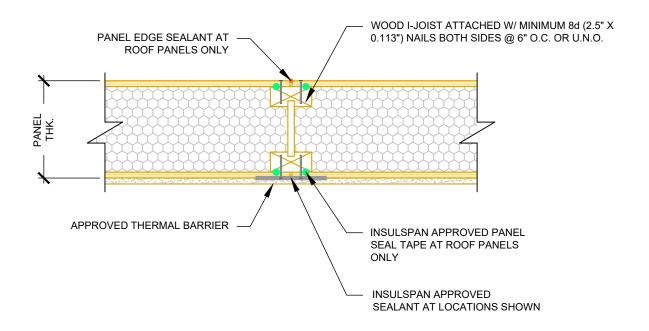




DOUBLE LUMBER SPLINE

REV 21-07-2025





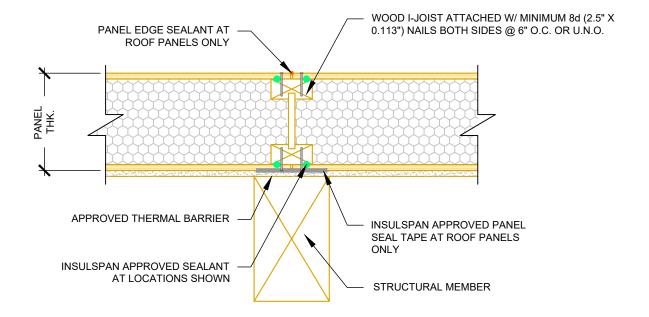
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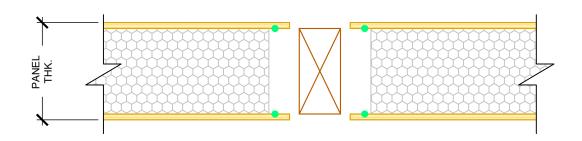
I-JOIST SPLINE

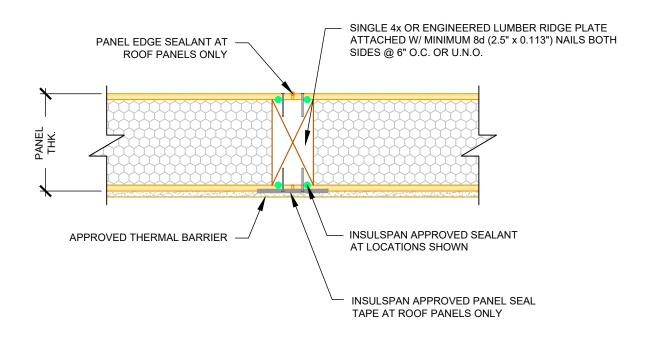
REV 21-07-2025





I-JOIST SPLINE AT INTERMEDIATE BEAM REV 21-07-2025

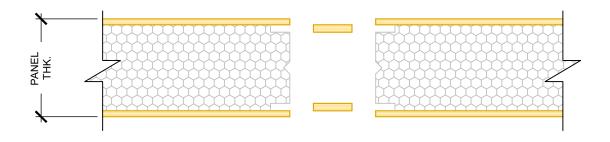


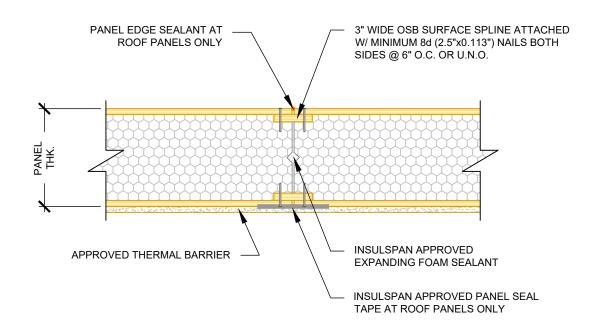




4X LUMBER SPLINE

REV 21-07-2025

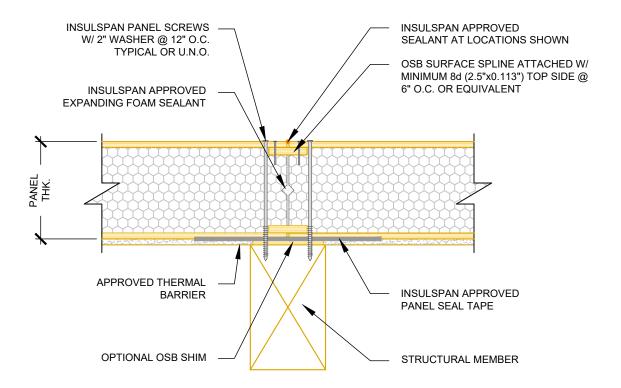






OSB SURFACE SPLINE

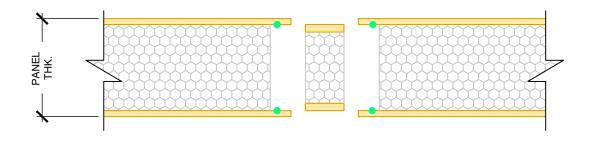
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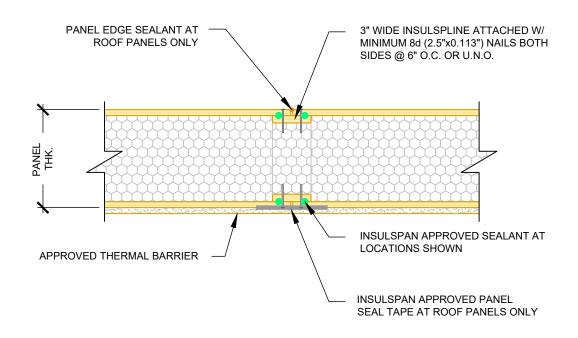




OSB SURFACE SPLINE AT INTERMEDIATE BEAM

REV 21-07-2025





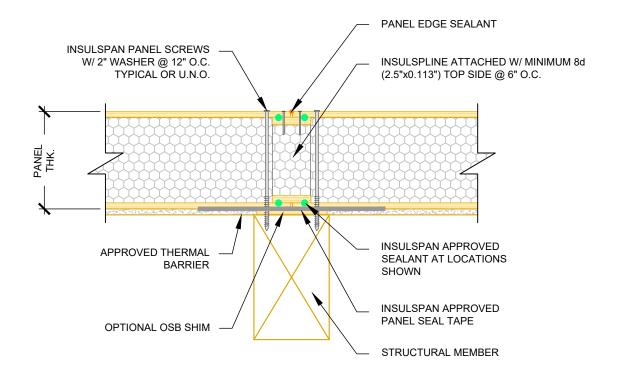
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INSULSPLINE

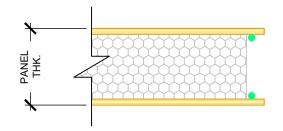
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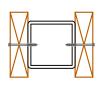


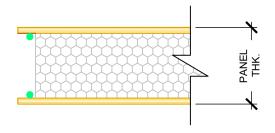


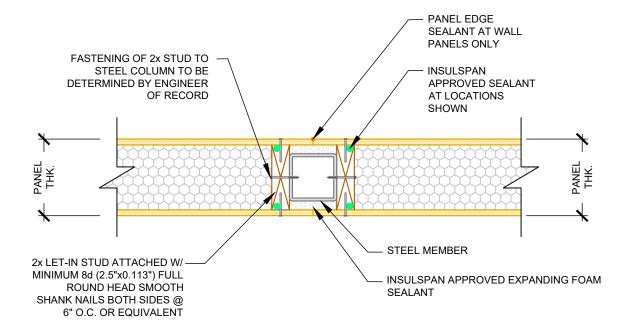
INSULSPLINE AT INTERMEDIATE BEAM

REV 21-07-2025





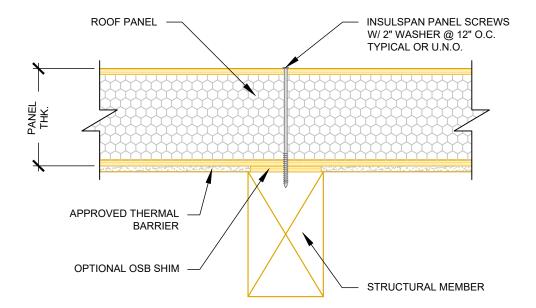




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HSS 2X SPLINE

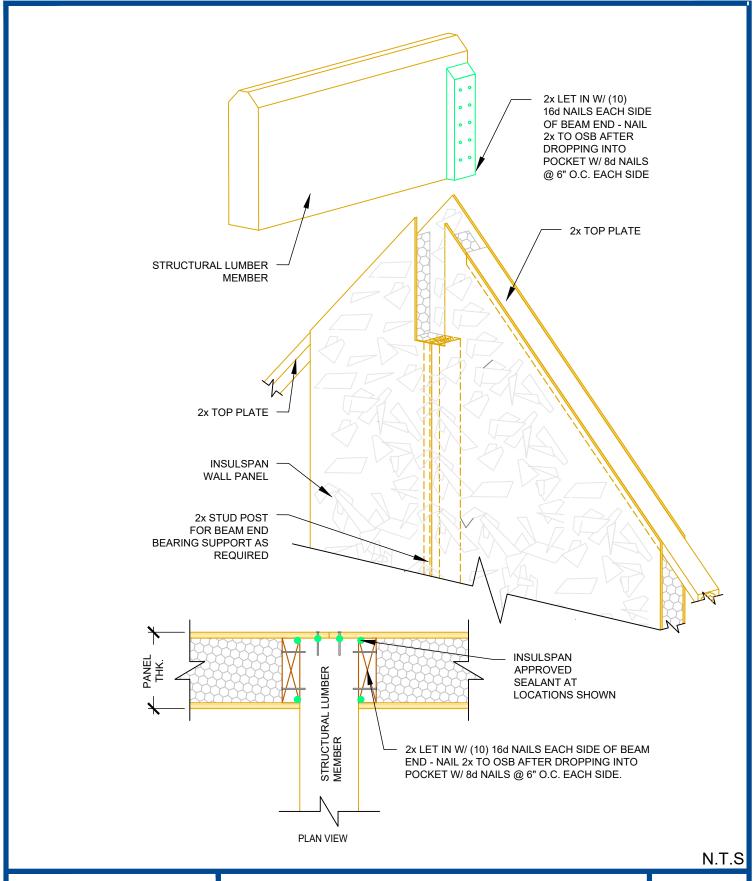
REV 21-07-2025





ROOF AT INTERMEDIATE BEAM

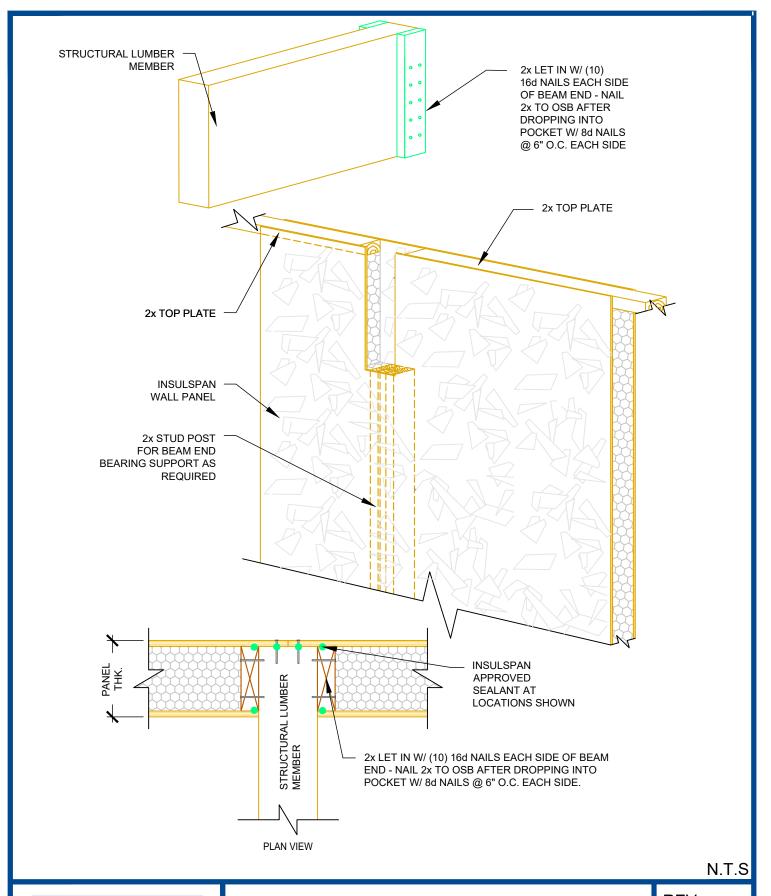
REV 21-07-2025





GABLE ROOF AT RIDGE BEAM

REV 21-07-2025

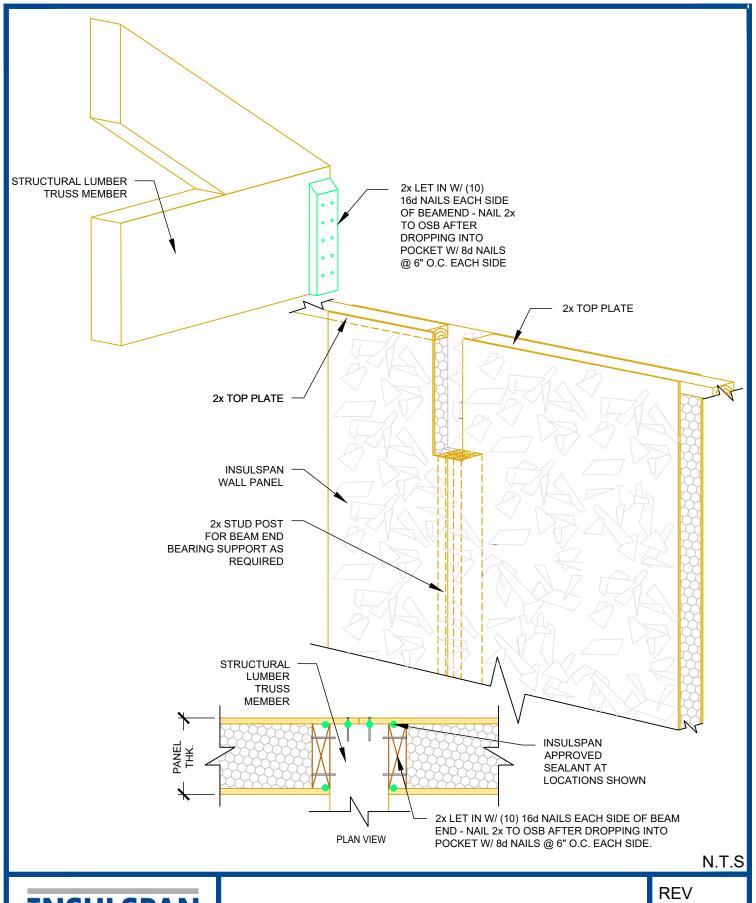




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FLAT ROOF WITH BEAM

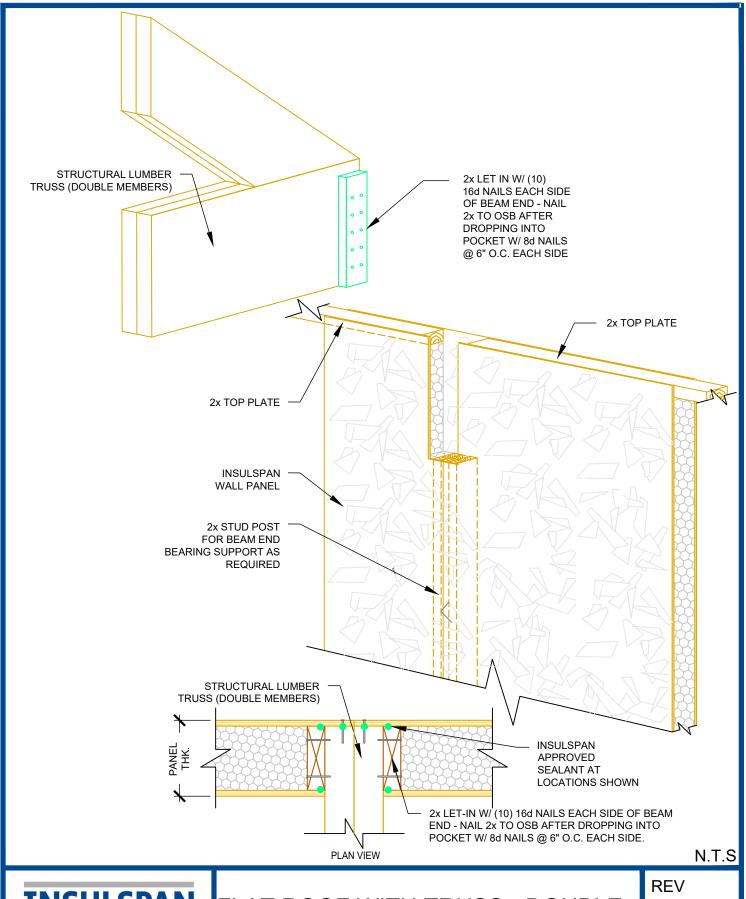
REV 21-07-2025





FLAT ROOF WITH TRUSS

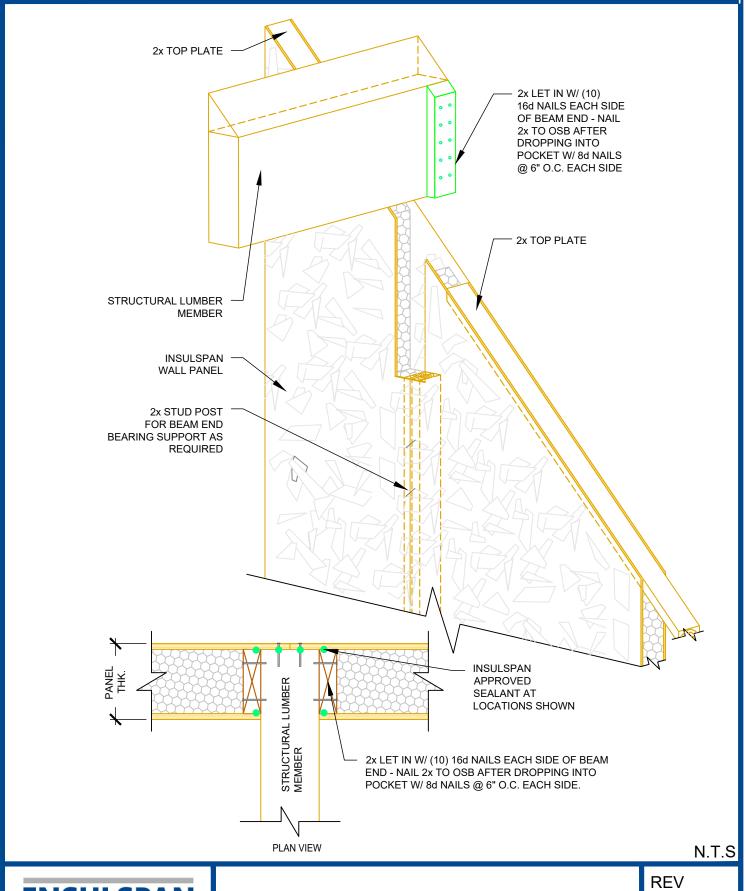
21-07-2025



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FLAT ROOF WITH TRUSS - DOUBLE **MEMBERS**

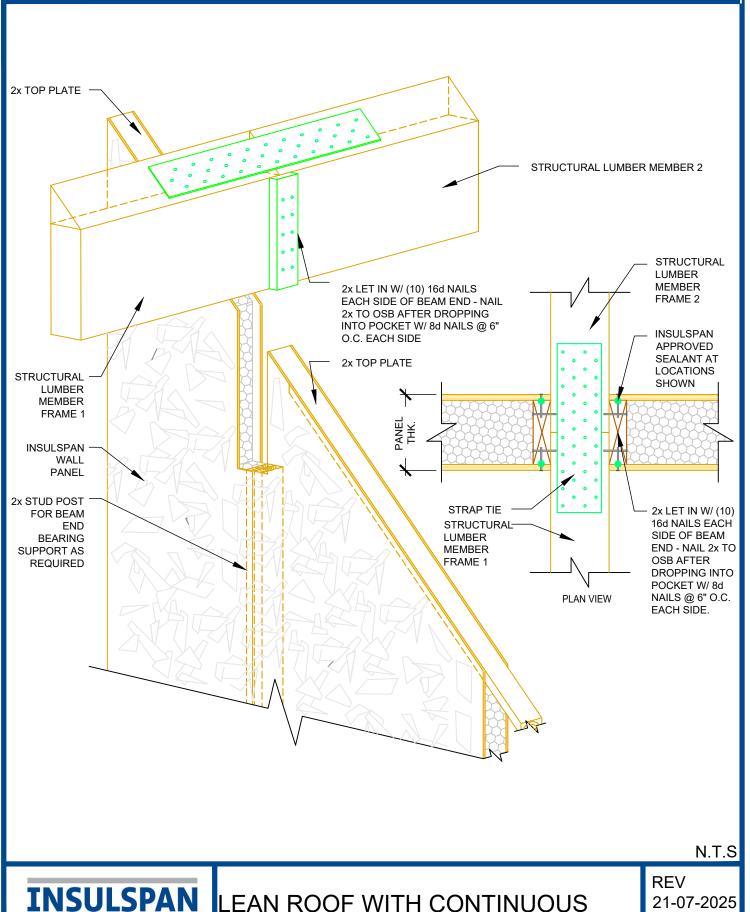
21-07-2025





LEAN ROOF WITH PURLIN

REV 21-07-2025

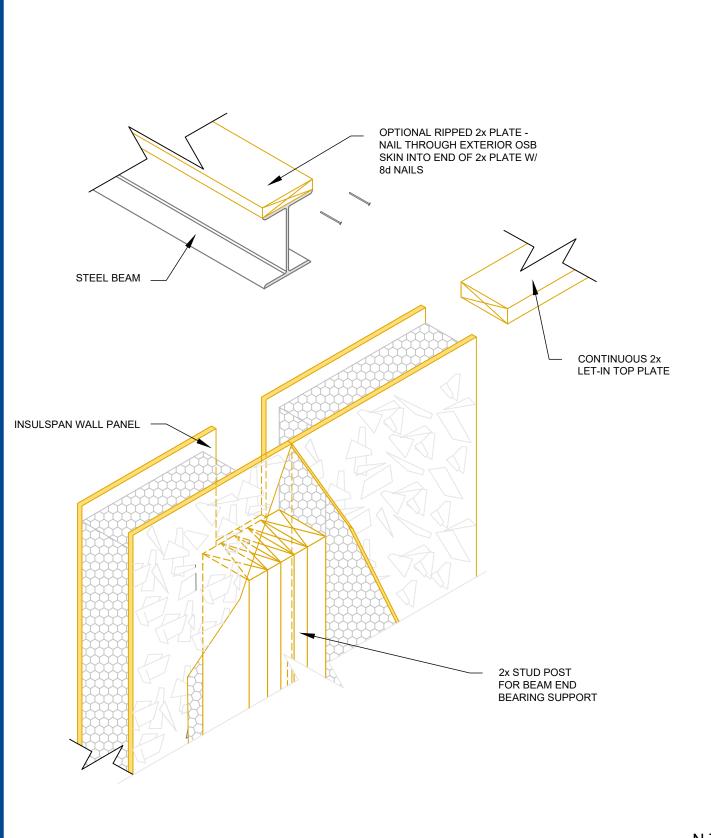


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LEAN ROOF WITH CONTINUOUS
PURLIN



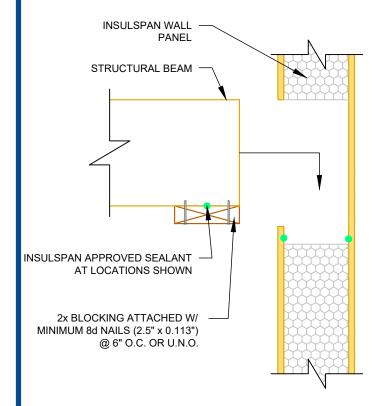
INSULSPAN
Structural Insulated Panels

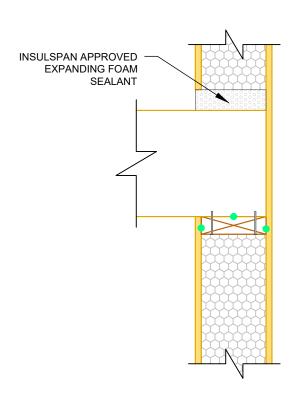
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plated Panels FLAT ROOF WITH STEEL BEAM

N.T.S

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21-07-2025

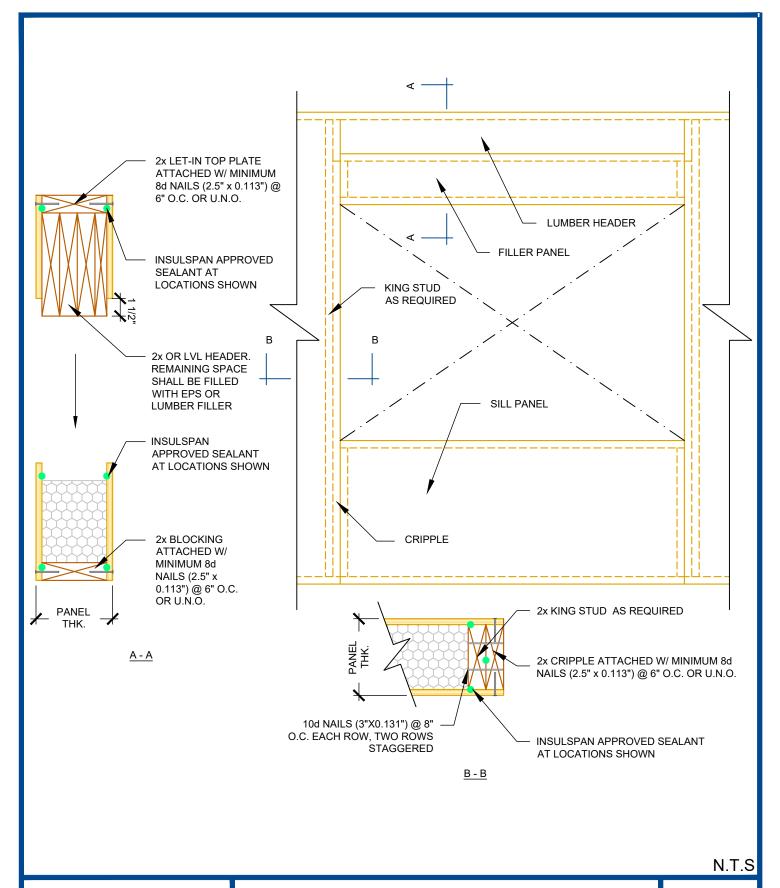
REV

DWG

338



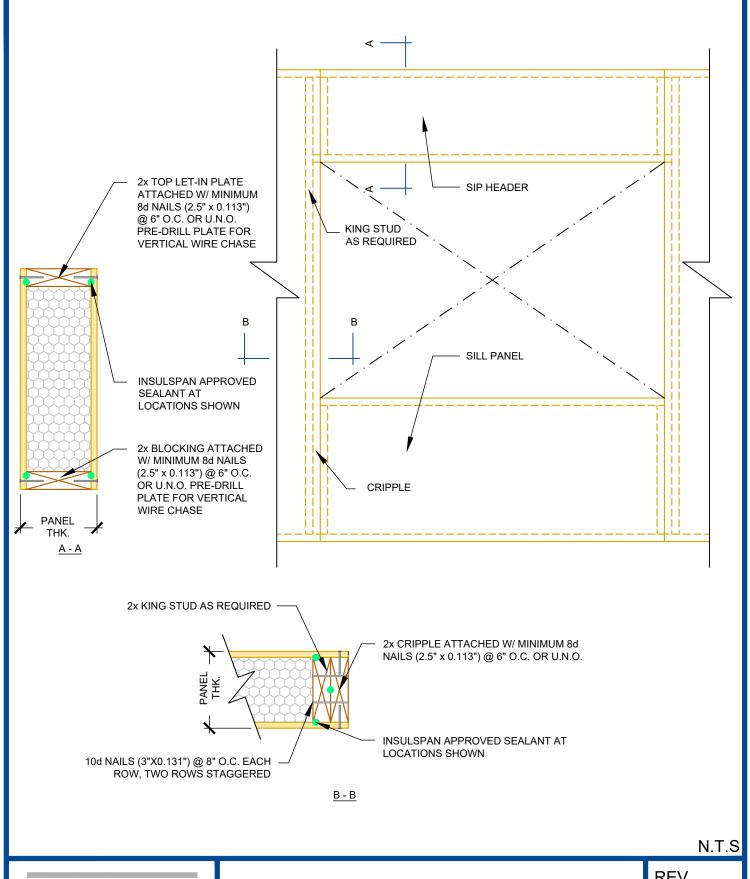
DROP & LOCK BEAM POCKET AT SIP WALL





LUMBER HEADER

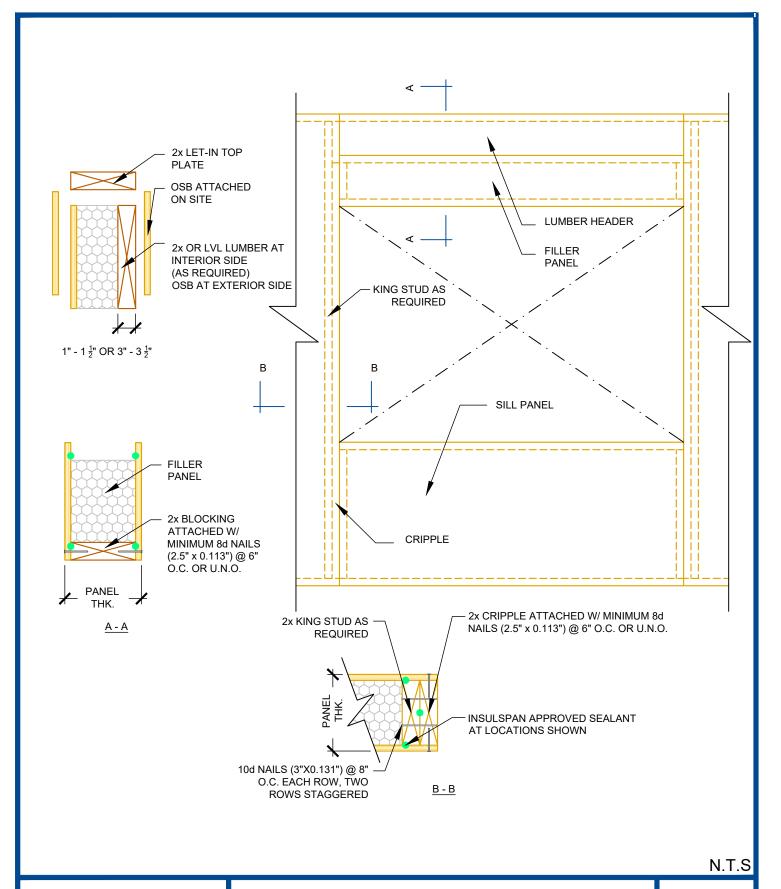
REV 21-07-2025





SIP HEADER

REV 21-07-2025



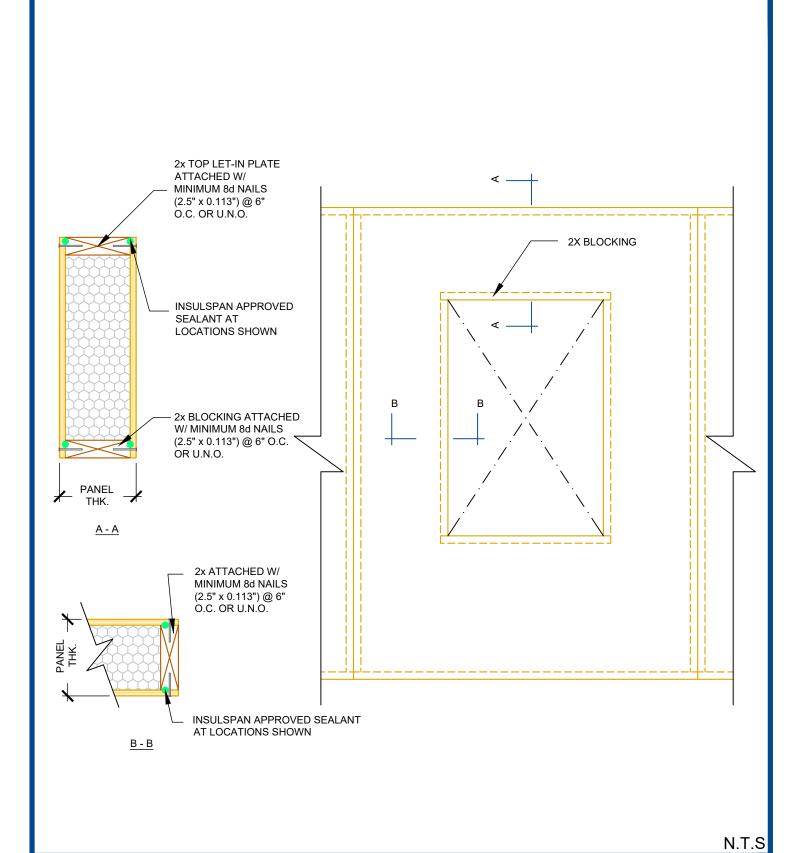
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Structural Insulated Panels

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INSULATED ROUTED HEADER

REV 21-07-2025



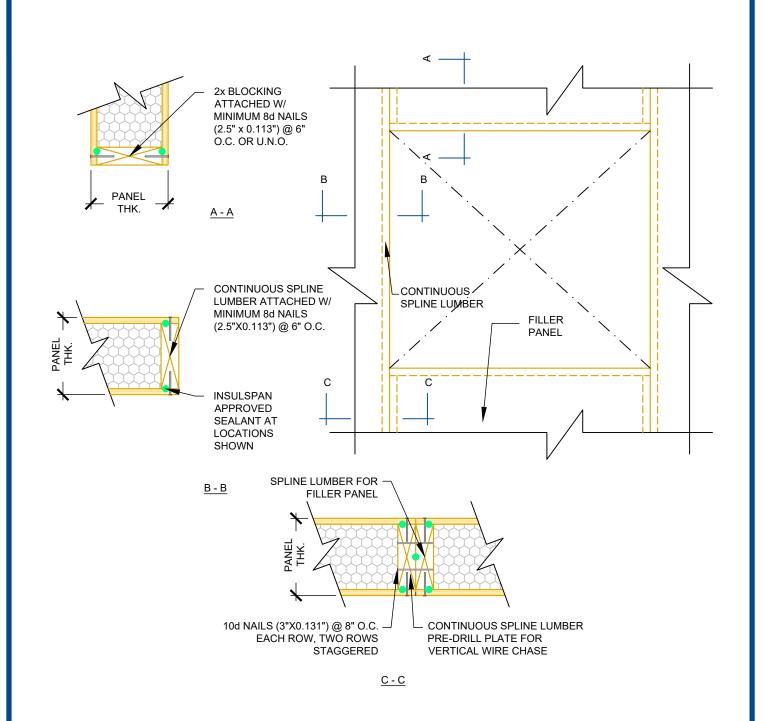


SMALL OPENING PANEL

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DWG 354

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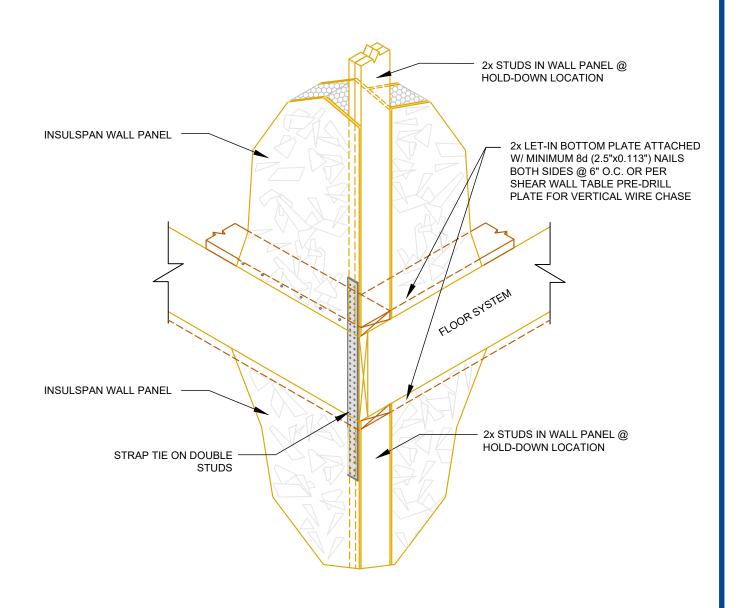


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SKYLIGHT OPENING

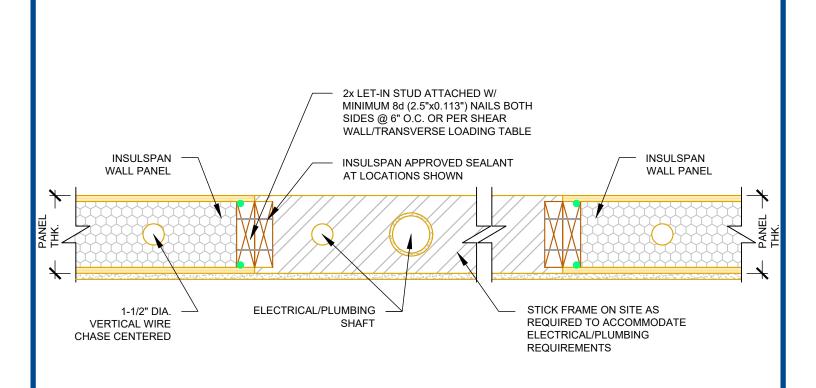
REV 21-07-2025





STRAP TYPE HOLDOWN FOR SIP WALL TO SIP WALL WITH FLOOR

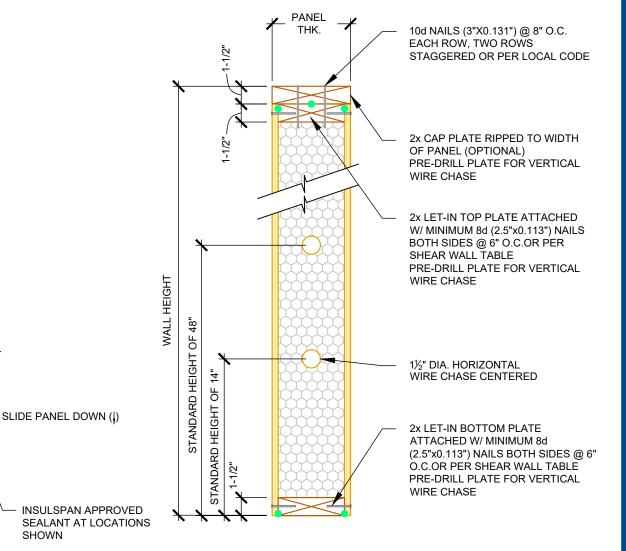
REV 21-07-2025





VOID DETAILS IN SIP WALL

REV 21-07-2025





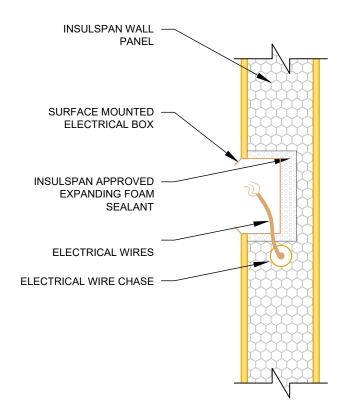
SHOWN

PANEL THK.

> ELECTRICAL CHASE DETAIL IN SIP WALL

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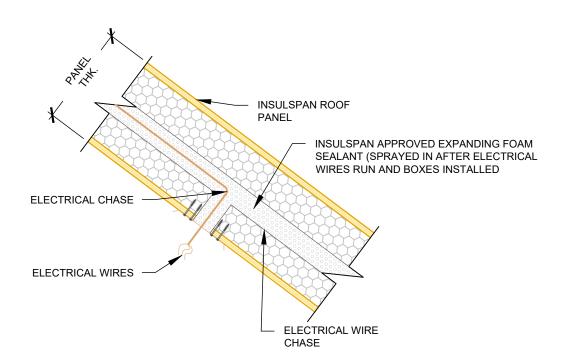
N.T.S





ELECTRICAL BOX DETAIL FOR SIP
WALL

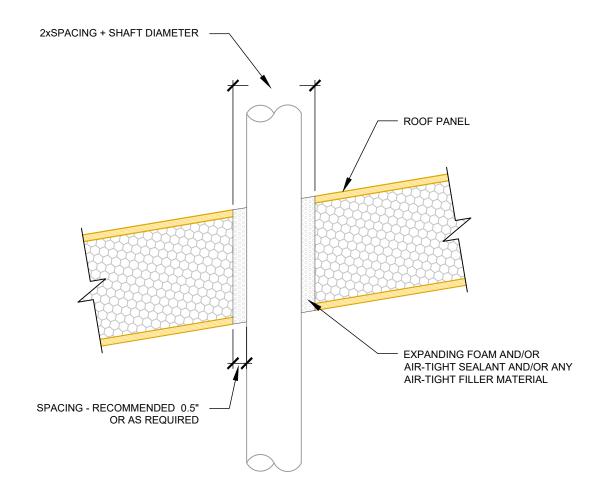
REV 21-07-2025





ELECTRICAL SHAFT DETAIL FOR SIP ROOF

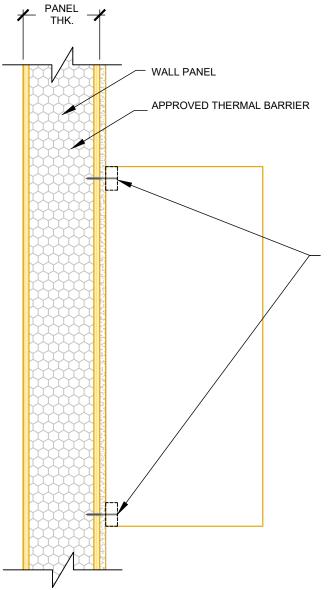
REV 21-07-2025





CHIMNEY SHAFT DETAIL FOR SIP ROOF

REV 21-07-2025



WALL CABINET INSTALLED WITH #8 x 2" DECK SCREWS TOP & BOTTOM RAILS (1x2) SPACE U.N.O. ALLOWABLE WITHDRAWAL LOAD PER SCREW = 35 LBS ALLOWABLE SHEAR LOAD PER SCREW = 35 LBS

N.T.S



WALL CABINET

REV 21-07-2025