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Installation Manual EXTERIOR WALL SIPs





EXTERIOR WALL SIPs Installation Manual

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EXTERIOR WALL SIPs

Installation Manual

1. General Requirements

1.1 Scope

The basic design and construction requirements for the Thermapan Structural Insulated Panel (SIP) wall system is set forth in this specification. Criteria for materials, environmental control, design loads, and structural design are included. Where requirements are based on internationally recognized standards and specifications, these standards and specifications are referenced without elaboration.

Installers shall reference engineering design package for fastening arrangements.

2. Materials

- 2.1 The Thermapan Wall SIP is composed of an expanded polystyrene (EPS) foam core laminated between two layers of oriented strand board (OSB) with a structural adhesive. (See Detail W-1)
- 2.2 Framing Lumber shall be DOC PS 20 or NLGA No.2 or better.
- 2.3 Wire nails, ring nails, spikes and staples shall conform to CSA B111 or ANSI/ASME B11.1.
- 2.4 Wood screws shall conform to ANSI/ASME B18.6.1..
- 2.5 SIP screws shall conform to ICC-AC233.
- 2.6 Caulking Compounds shall conform to CAN/CGSB 19.13 or ASTM C 920.
- 2.7 Polyethylene Sheeting shall conform to CAN/CGSB-37.2, CAN/CGSB-37.16, or ASTM D 4397.
- 2.8 Low expansion foam seal shall conform to AAMA 812-04.
- **2.9** Structural adhesive shall conform to CAN/CGSB 71GP26, APA AFG-01 or ASTM D3498.

3. Electrical Wiring

3.1 All wire chases to be vertically cut into the wall SIP at a minimum depth of 2". See Detail W-14.



4. Interior Finish

4.1 The interior of the wall SIP can be finished with any of the common required building code materials. It is recommended that the SIP joints and connections be sealed as per Details AB-1 and AB-2.

5. Exterior Cladding

5.1 A weather barrier is to be installed over the exterior OSB of the SIP and under the cladding and/or furring. Refer to Details W-15 and W-16 and your local building code for compliant weather barrier materials.



MATERIALS ESTIMATING

Above Grade Exterior Walls Estimation Only

Lumber Requirements:

- SPF Single top and bottom plate
- OSB 1-1/8" (28mm) Cap plate 12 ft (3658mm) lengths
- Every panel requires a spline
- Every corner requires 2 SPF studs
- Windows and doors require jack studs as per OBC and cripples

Caulking and Sealant Requirements:

- Every 1200 sqft (111 m²) of SIP equals 1 case of Expandable Foam
- Every 2000 sqft (185 m²) of SIP requires 1 case of Sealant

Fasteners:

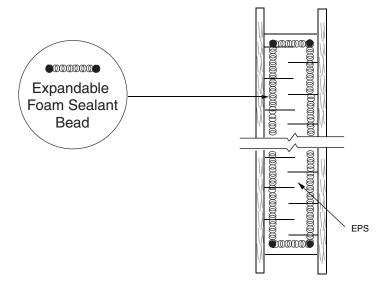
- Recommend 2" (50mm) Ring nail or 2" (50mm) screws for connection to panel
- 3.0 times the square footage of SIPs

AIR BARRIER

RECOMMENDED DETAILS FOR AIR BARRIER SEALANTS

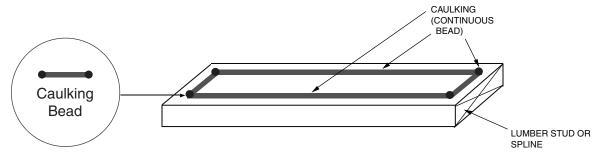
All sealants, FOAM (A) or CAULKING (B), should be applied onto the SIP in a continuous rectangular pattern along the outer most edge of the area to be sealed.

(A) A low expansion EXPANDABLE FOAM SEALANT should conform to the AAMA 812-04 standard. Apply a 1/2 inch or a 12.5 mm diameter of a *continuous* bead of expandable foam sealant onto the SIP:



(B) A CAULKING SEALANT should conform to ASTM C920-02 and/or CAN/CGSB 19.13-M. Apply a 3/8 inch or a 10 mm diameter *continuous* bead of caulking onto the lumber spline:

TITLE





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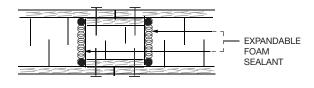
AIR BARRIER DETAILS FOR AIR BARRIER SEALANTS

PROJECT

AIR BARRIER

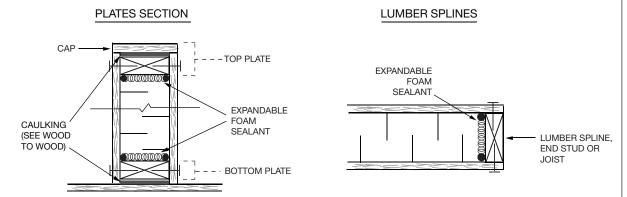
RECOMMENDED DETAILS FOR SEALING SIP CONNECTIONS

(1) Foam to Foam: Use a low expansion foam sealant.

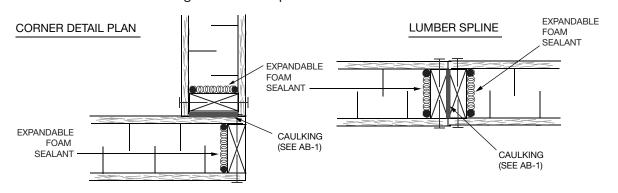


SIP SPLINE JOINT

(2) Foam to Wood: Use a low expansion foam sealant.



(3) Wood to Wood: Use caulking and a low expansion foam sealant.





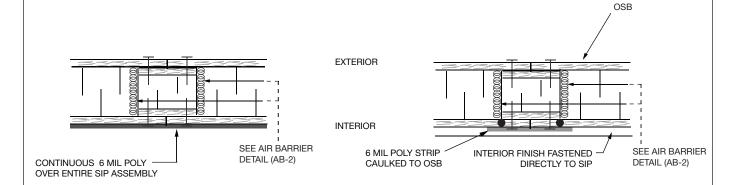
AIR BARRIER DETAILS FOR SEALING SIP CONNECTIONS				PROJECT	
REFERENCE		SCALE			
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DATE		REVISION	·	DWG. No.	
	MAY 2020		1	AB-2	

VAPOUR BARRIER

RECOMMENDED DETAILS FOR VAPOUR SEALING SIP CONNECTIONS

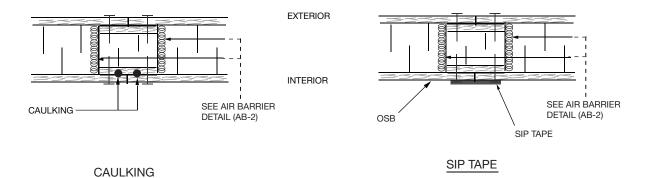
The function of a vapour barrier is to control the entry of water vapour into the building assembly. Vapour barriers should not be confused with an air barrier.

All SIP seams and connections must be VAPOUR SEALED from the INTERIOR. These are recommended vapour barrier methods:



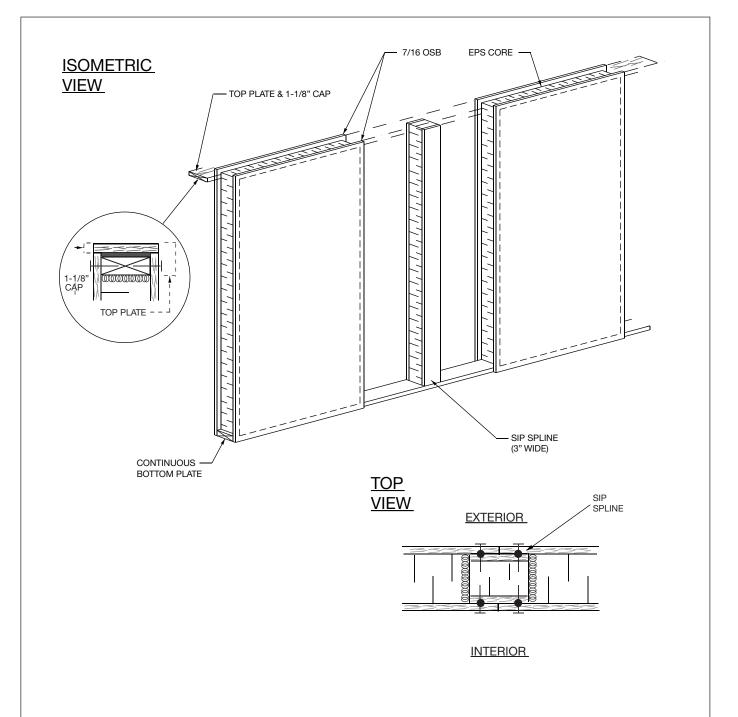
CONTINUOUS 6 MIL POLY RECOMMENDED



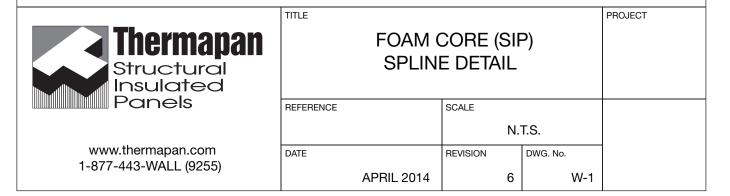


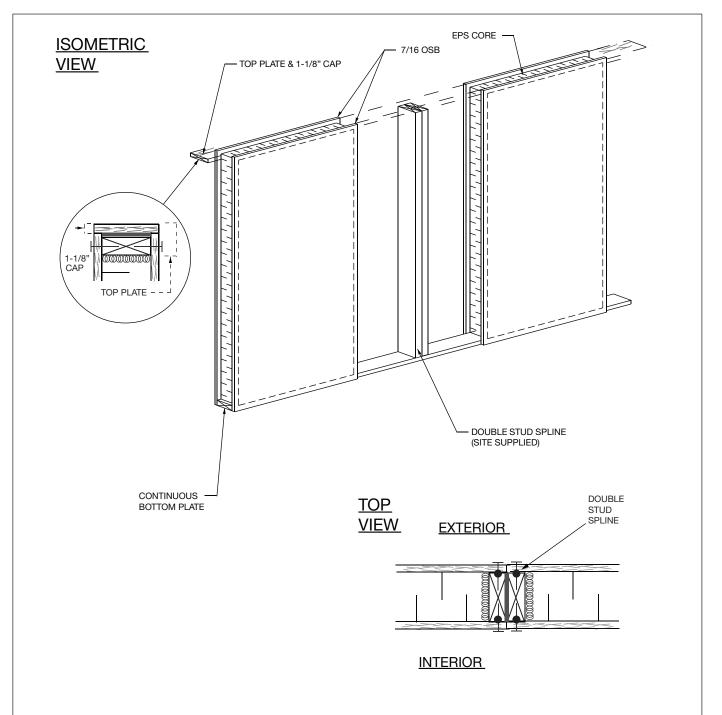


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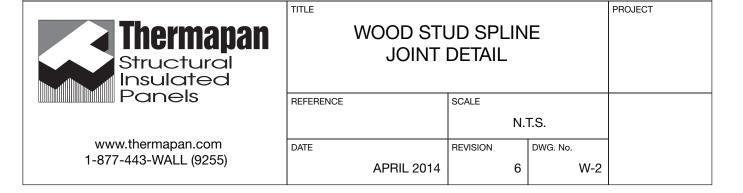


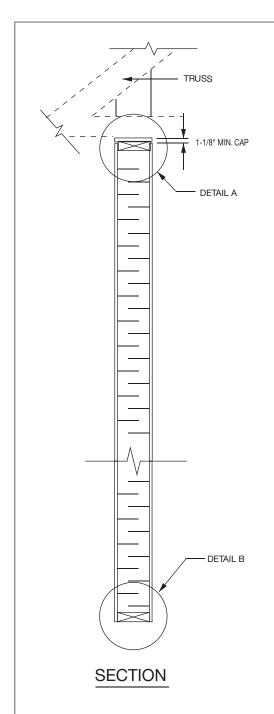
NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.



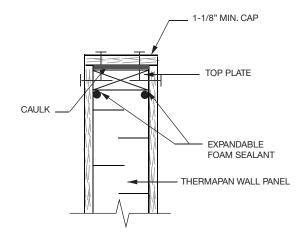


NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.

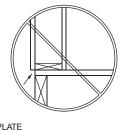












BOTTOM PLATE EXPANDABLE FOAM SEALANT

JOIST OR

BLOCKING

CAULK

THERMAPAN WALL PANEL

NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.

TITLE



www.thermapan.com 1-877-443-WALL (9255)

REFERENCE SCALE N.T.S. DATE REVISION DWG. No. **APRIL 2014** 6 W-3

PROJECT

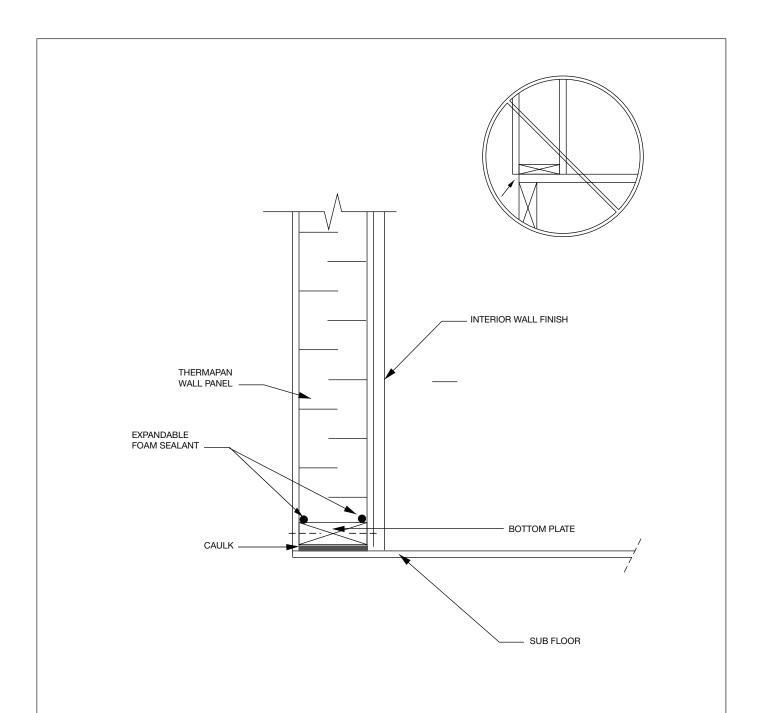
SUB FLOOR

PLATFORM FRAMING THERMAPAN INTERIOR WALL FINISH WALL PANEL BOTTOM PLATE EXPANDABLE FOAM SEALANT CAULK -SUB FLOOR AIR BARRIER 1-1/8" CAP TOP PLATE INTERIOR WALL FINISH EXPANDABLE FOAM SEALANT THERMAPAN WALL PANEL INTERIOR WALL FINISH THERMAPAN EXPANDABLE FOAM WALL PANEL **SEALANT** BOTTOM PLATE SUB FLOOR CAULK 1-1/8" CAP TOP PLATE EXPANDABLE FOAM WOOD JOIST SEALANT JOIST HANGER AS THERMAPAN WALL PANEL PER MANUF. SPEC. SUSPENDED FLOOR DETAIL INTERIOR WALL FINISH VARIES

NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.



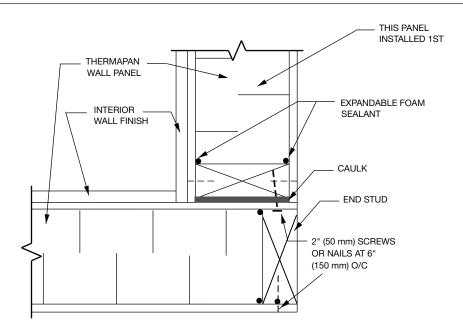
TITLE			PROJECT	
FLOOR-TO-WALL CONNECTION DETAIL				
REFERENCE	SCALE			
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DATE	REVISION		DWG. No.	
JUNE 2016		6	W-4	



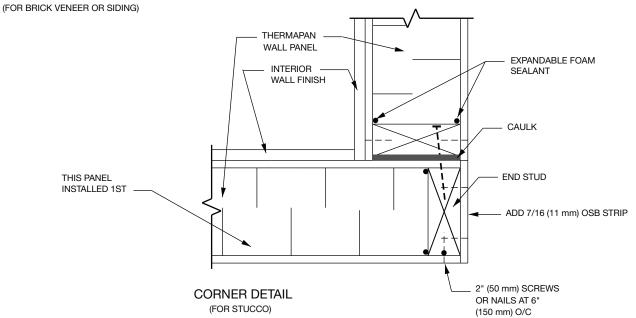
NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.



TITLE	SILL PLATE DETAIL			PROJECT	
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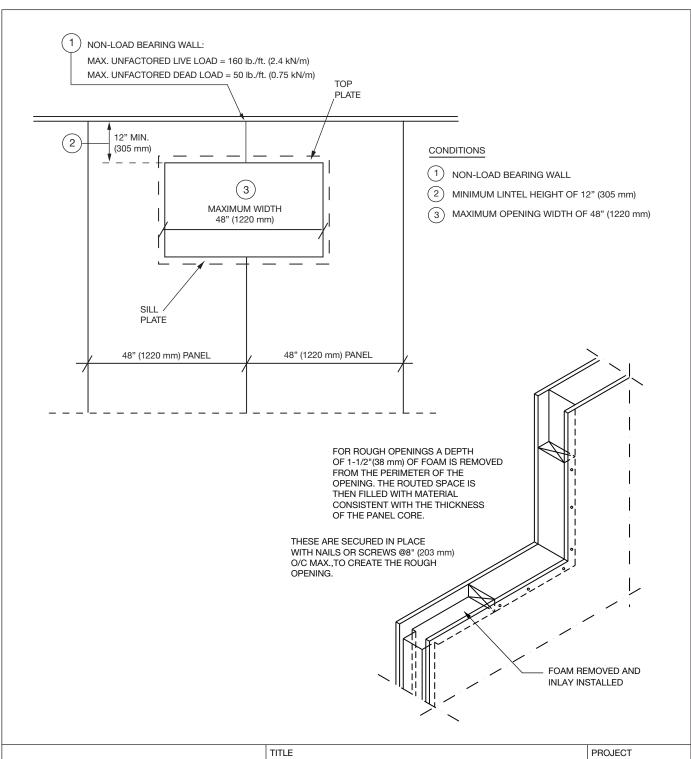
CORNER DETAIL



NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.



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WALL BUTT CORNER CONNECTION DETAIL						
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DATE		REVISION		DWG. No.		
	JUNE 2016		5	W-	5	





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WINDOW CUT-OUT (NON-LOAD BEARING WALL)

DETAIL 1 PANEL HEADER **JACK** POST(S) CONDITION 1: WALL OPENING (1) MAX 9'-1" WALL HEIGHT (2) MAX 5,000 LBS. (22.3 kN) FACTORED REACTION 9'-1" MAX (3) CONFIRM JACK POST REACTIONS (4) SINGLE JACK STUD NOTE: REFER TO APPENDIX A OR DESIGN HANDBOOK FOR ALLOWABLE HEADER LOADS. DETAIL 2 PANEL HEADER JACK STUD KING-STUD CONDITION 2: (1) 9'-1" $\leq X \leq$ 12' (WALL HEIGHT) **GREATER THAN** (2) MAX 5,000 LBS. (22.3 kN) FACTORED REACTION OR EQUAL TO A SINGLE (3) CONFIRM JACK POST REACTIONS 9'-1" HIGH PANEL BUT BOTTOM (4) SINGLE JACK AND KING STUD NOT GREATER THAN PLATE OF **EDGE** A 12 FT. HIGH PANEL **HEADER** NOTE: OSB TO BE ADDED TO BOTH SIDES OF STUDS WHEN OF OSB ONLY 1-1/2" FOAM RECESS IS PROVIDED IN WALL PANEL REFER TO APPENDIX A OR DESIGN HANDBOOK FOR ALLOWABLE HEADER LOADS. 3" FOAM RECESS **DETAIL 3** PANEL HEADER REMOVE OSB **INSTALLING STUDS: EDGE** GREATER 1. REMOVE OSB ONE SIDE OF OSB THAN OR 2. REMOVE FOAM 3. INSTALL STUDS **EQUAL TO** 4. REPLACE OSB A 12 FT HIGH PANEL CONDITION 3: **DOUBLE** SINGLE (1) X ≥12' (WALL HEIGHT) KING STUD воттом (2) MAX 5000 LBS. (22.3 kN) FACTORED REACTION JACK PLATE OF (3) CONFIRM JACK POST REACTIONS STUD **HEADER** (4) SINGLE JACK AND DOUBLE KING STUDS 4-1/2" FOAM RECESS NOTE: REFER TO APPENDIX A OR DESIGN HANDBOOK FOR ALLOWABLE HEADER LOADS. **DETAIL 4** PANEL HEADER REMOVE OSB **INSTALLING STUDS: FDGF** 1. REMOVE OSB ONE SIDE **GREATER** 2. REMOVE FOAM OF OSB THAN OR 3. INSTALL STUDS **EQUAL TO** 3. REPLACE OSB A 12 FT. K Κ J HIGH PANEL CONDITION 4: SINGLE (1) X <u>≥</u>12' (WALL HEIGHT) BOTTOM DOUBLE KING (2) MAX 10,000 LBS. (44.6 kN) FACTORED REACTION PLATE OF STUD OR EWP (3) CONFIRM JACK POST REACTIONS HEADER COLUMN (4) DOUBLE JACK AND DOUBLE KING STUDS 2 JACK STUDS NOTE: REFER TO APPENDIX A OR DESIGN HANDBOOK FOR ALLOWABLE HEADER LOADS. TITLE PROJECT PANEL LINTEL/HEADER hermapan **DETAILS & BEARING** Structural CONDITIONS 1 - 4 Insulated **Panels** REFERENCE SCALE N.T.S. www.thermapan.com

DATE

NOVEMBER 2023

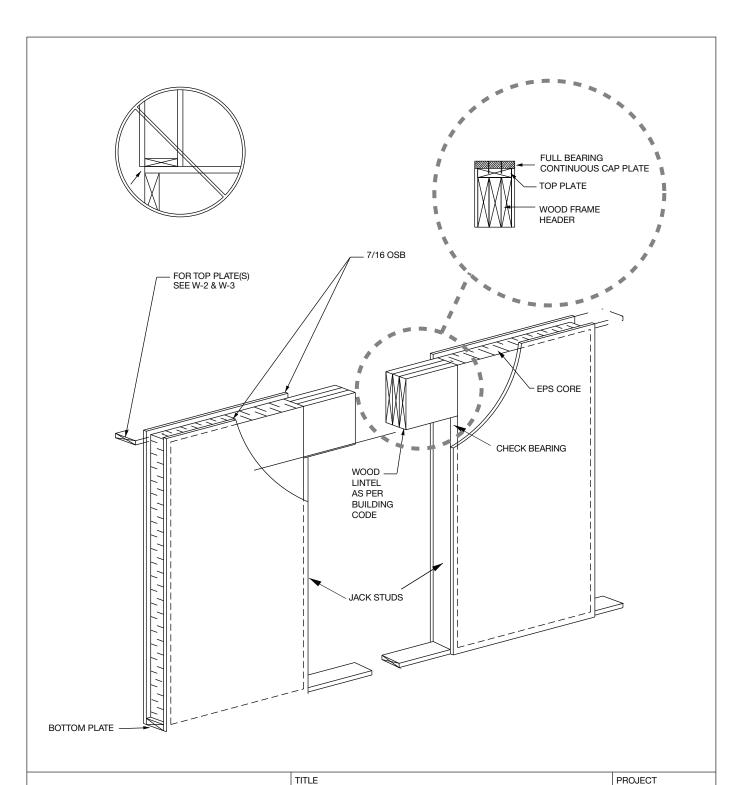
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W-8





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LINTEL DETAIL (HEADER BY OTHERS)

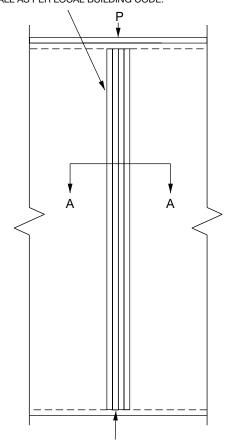
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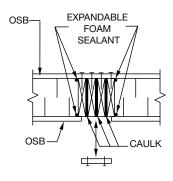
NOVEMBER 2021 5 W-9

COLUMN (BUILT-UP STUDS, TIMBER, STEEL, ETC.) INSTALL AS PER LOCAL BUILDING CODE.

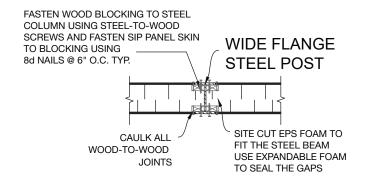


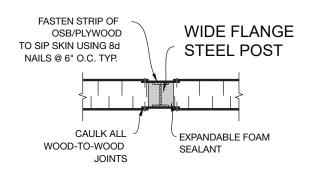
REMOVE BOTTOM PLATE SECTION AND INSTALL COLUMN DIRECTLY ONTO FLOOR IF LOAD IS GREATER THAN BEARING RESISTANCE OF WOOD PLATE.

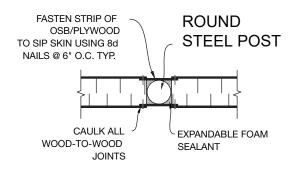
SECTION A-A



TYPICAL STEEL POST TO SIP CONNECTIONS

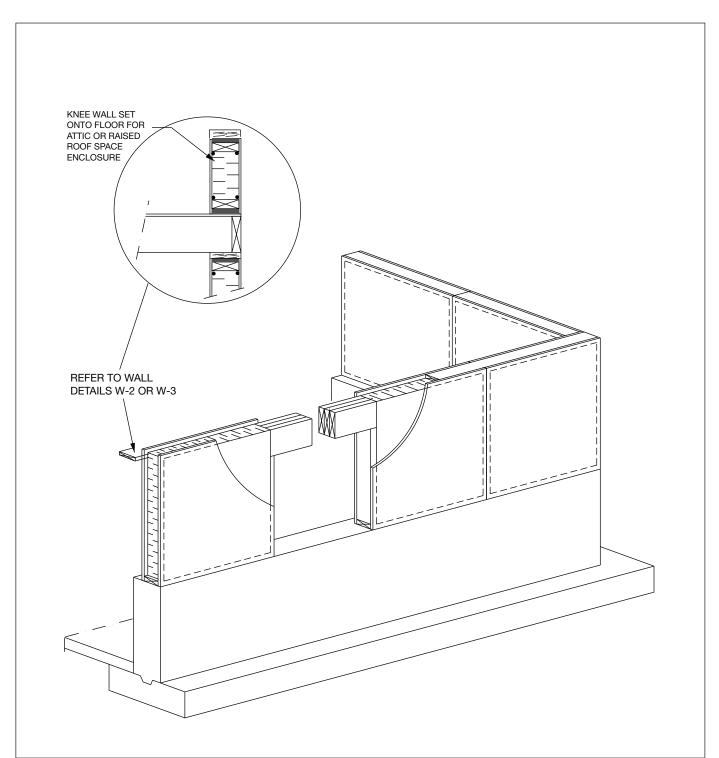






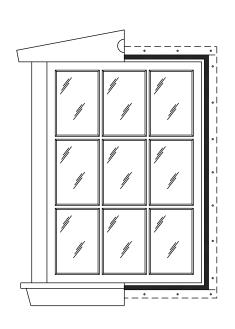


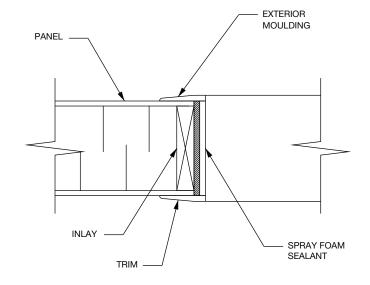
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KNEE WALL DETAIL			PROJECT		
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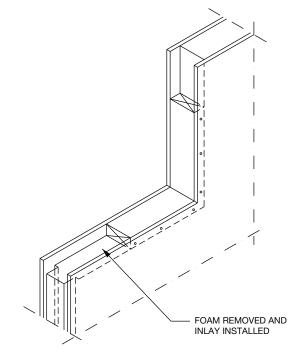


FOR ROUGH OPENINGS A DEPTH OF 1 1/2 " OF FOAM IS REMOVED FROM THE PERIMETER OF THE OPENING. THE ROUTED SPACE IS THEN FILLED WITH A MATERIAL CONSISTENT WITH THE THICKNESS OF THE PANEL CORE.

THESE ARE SECURED IN PLACE WITH NAILS OR SCREWS @8" O/C MAX., TO CREATE THE ROUGH OPENING.

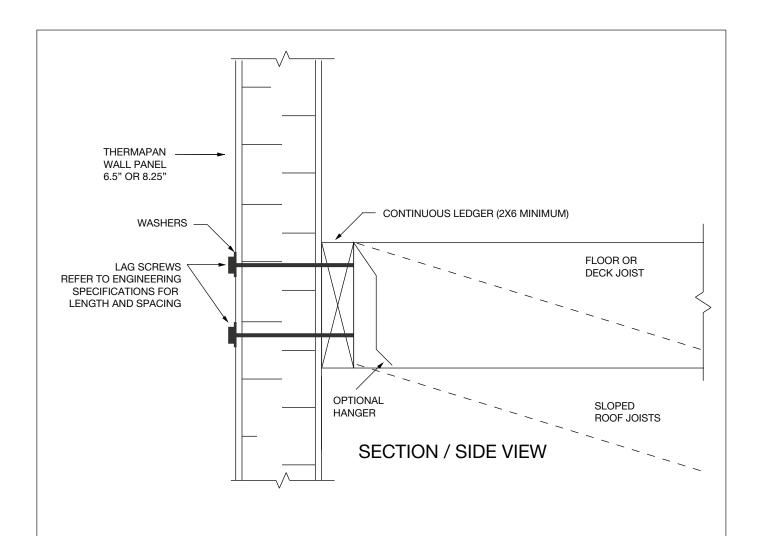
THE WINDOW OR DOOR IS THEN INSTALLED CONVENTIONALLY.

NOTE: REFER TO LINTEL DETAILS W-7.



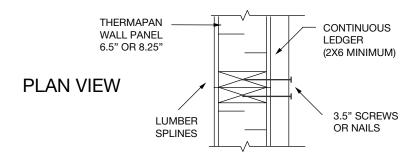


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DOOR & ROUGH O			
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		Γ.S.	
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FEBRUARY 2012	3	W-12	



LEDGER CAN ALSO BE NAILED OR SCREWED (3.5" LONG) INTO LUMBER SPLINES (IF USED) AT 4' O/C

PROJECT





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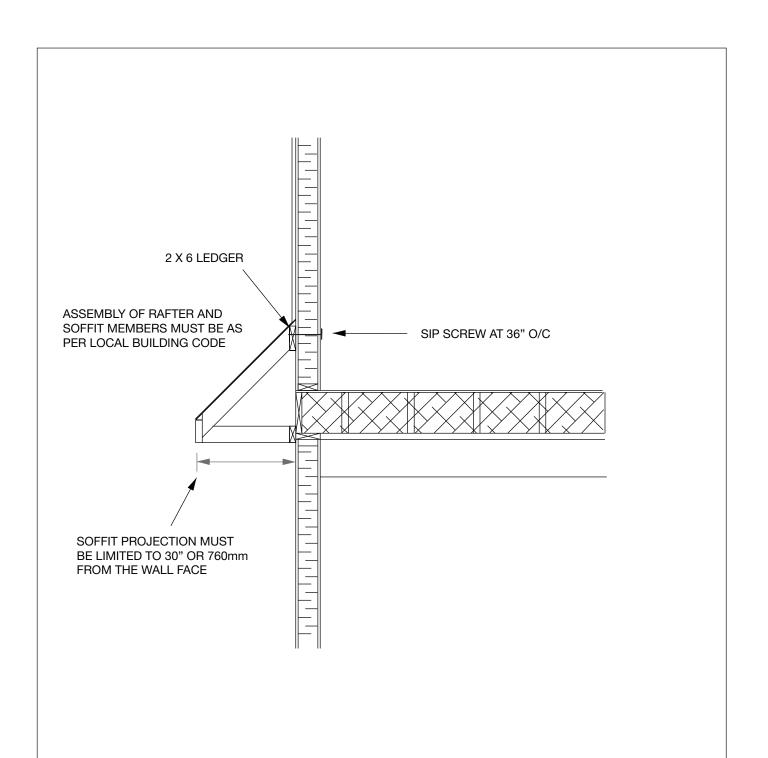
WOOD LEDGER ATTACHED TO SIP WALL PANEL[©]

TITLE

 REFERENCE
 SCALE
 NTS

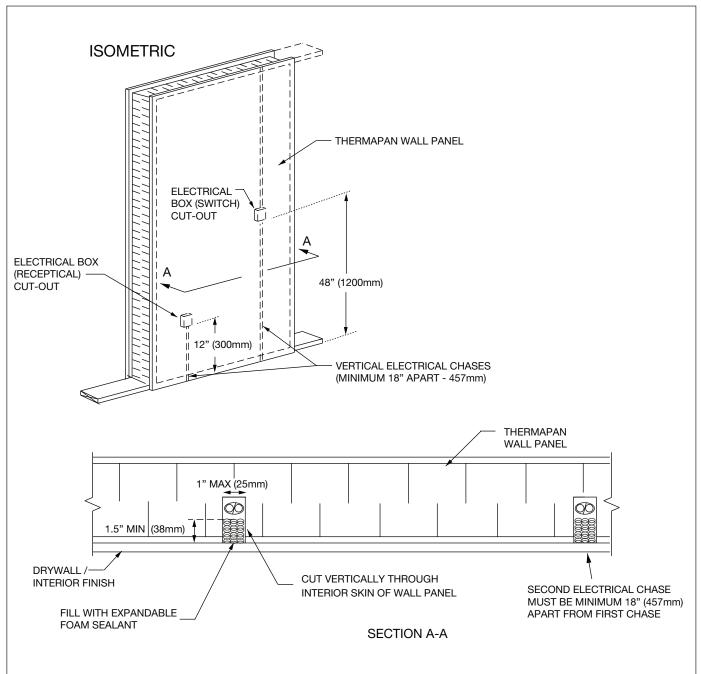
 DATE
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 DWG. No.

 APRIL 2020
 3
 W-13



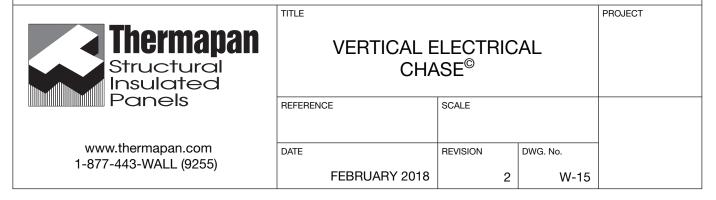


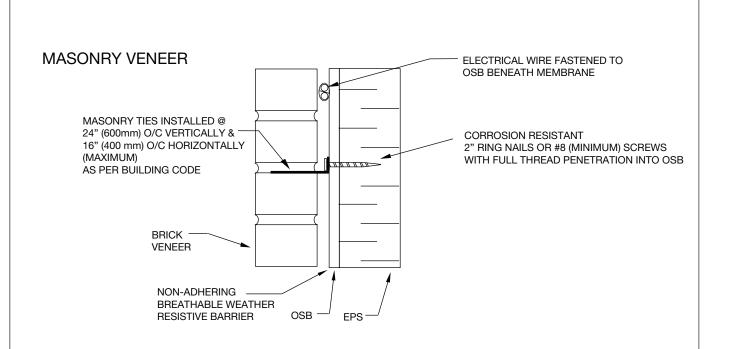
KICKER TRUSS DETAIL			PROJECT
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DATE	REVISION	DWG. No.	
OCTOBER 2021	1	W-14	



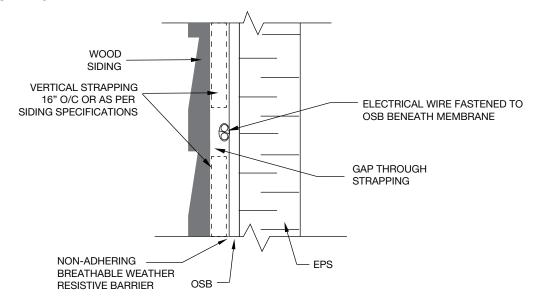
NOTES:

- 1. MAXIMUM OF TWO (2) VERTICAL CHASES PERMITTED FOR WALL PANELS 2'-6" (760mm) TO 4' (1220 mm) WIDE, MINIMUM 18"(457mm) APART.
- 2. MAXIMUM OF ONE (1) VERTICAL CHASE PERMITTED FOR WALL PANELS LESS THAN 2'-6" WIDE (760mm) .





WOOD SIDING

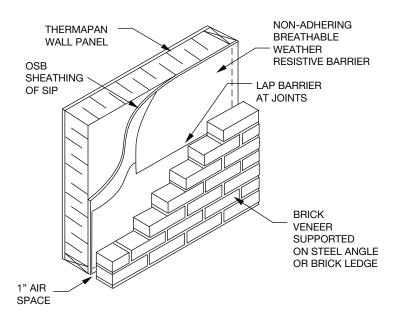


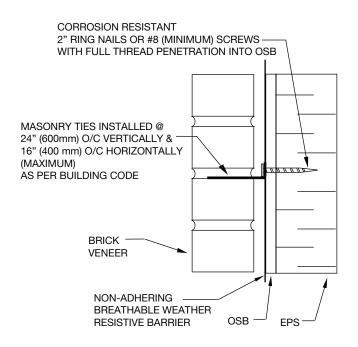


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MARCH 2021		W-16	

MASONRY VENEER





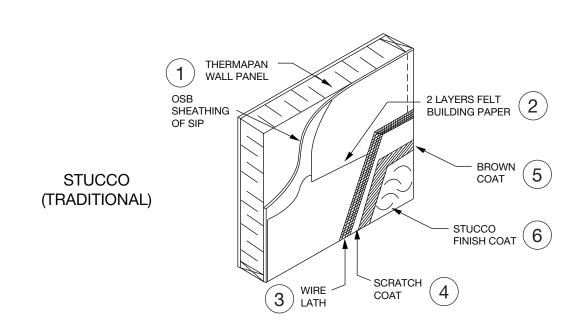
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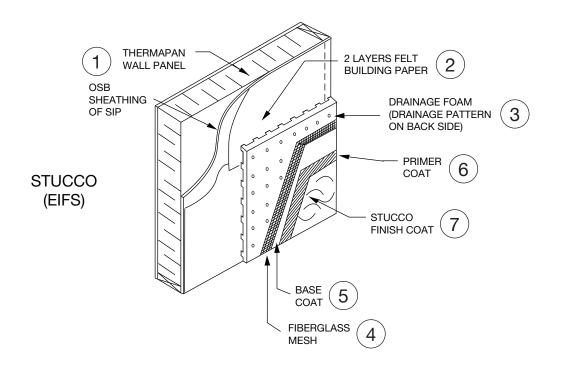


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EXTERIOR WALL CLADDING BRICK & CULTURED STONE

PROJECT





TITLE



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EXTERIOR WALL CLADDING STUCCO (TRADITIONAL & EIFS)

REFERENCE SCALE

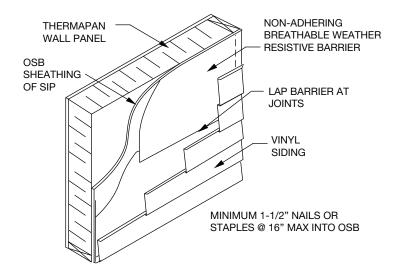
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DATE REVISION DWG. No.

W-18

PROJECT

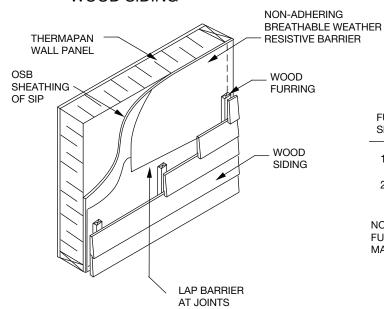
VINYL SIDING



FIBRE CEMENT SIDING

FOR FIBRE CEMENT LAP SIDING REFER TO MANUFACTURER'S RECOMMENDED FASTENING METHODS.

WOOD SIDING



TITLE

FURRING REQUIREMENTS (WOOD SIDING)

FURRING SPACING	FASTENER SPACING (MIN 1-1/2" SCREWS)	FASTENER SPACING (MIN 1-1/4" NAILS)
16" O/C	10" O/C	8" O/C
24" O/C	8" O/C	8" O/C

NOTE: ALL NAILS TO BE RING (ANNULARLY THREADED). FURRING TO BE AS RECOMMENDED BY SIDING MANUFACTURER.

PROJECT

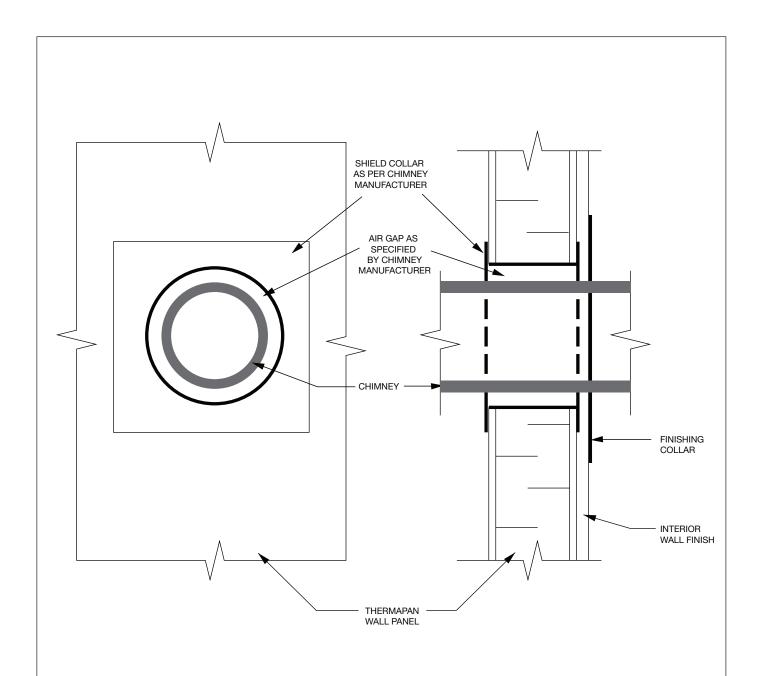
W-19



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DATE	REVISION	DWG. No.	

AUGUST 2017

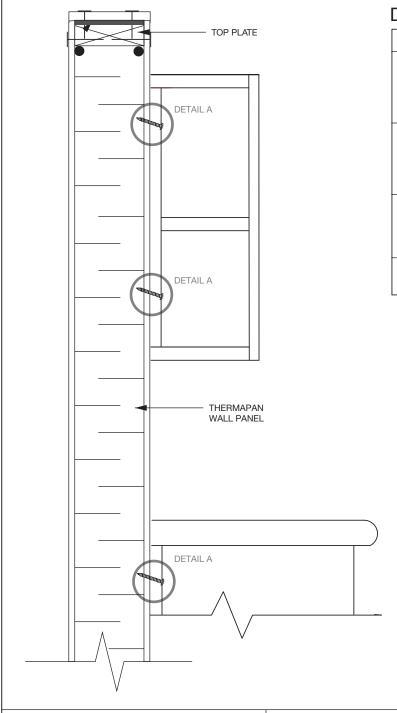


NOTE: ABOVE DETAILS ARE TYPICAL REQUIREMENTS TO INSTALL A PREFABRICATED METAL CHIMNEY IN A THERMAPAN STRUCTURAL INSULATED PANEL. THE CHIMNEY INSTALLATION MUST COMPLY WITH THE CHIMNEY MANUFACTURERS'S SPECIFICATION AND THE APPLICABLE BUILDING CODE.

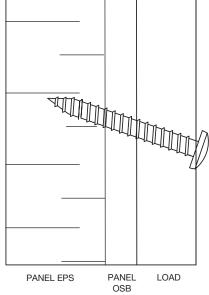


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PRE-FABRICATED METAL CHIMNEY INSTALLATION IN WALL REFERENCE SCALE N.T.S. DATE REVISION DWG. No. FEBRUARY 2019 W-21



DETAIL A



NOTE: NUMBER 10 TYPE A SHEET METAL SCREWS CAN RESIST A PULL OUT OF 106 POUNDS IN 7/16" OSB. CONTRACTOR TO CONFIRM LOAD TO BE SECURED AND NUMBER OF FASTENERS REQUIRED. FULL THICKNESS OF OSB TO RECEIVE SCREW THREAD ON ANGLE AS DETAILED

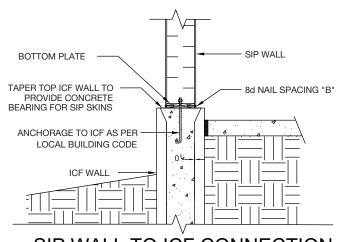
*THE GIVEN LOAD CAPACITY OF THE SCREW IS BASED ON THE AVERAGE ULTIMATE FAILURE LOAD DIVIDED BY A FACTOR OF SAFETY OF 3 AND TAKING INTO ACCOUNT A LONG TERM LOAD DURATION FACTOR OF 0.9. DESIGNERS MUST USE THE APPROPRIATE SAFETY FACTOR AND LOAD DURATION FACTOR FOR EACH LOADING CONDITION.



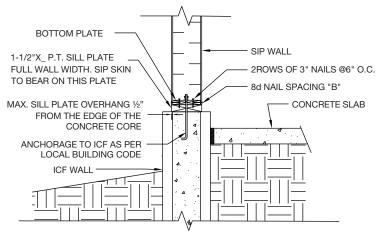
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SCREW FASTENER DETAIL FOR SECURING SHELVING TO THERMAPAN PANEL

PROJECT



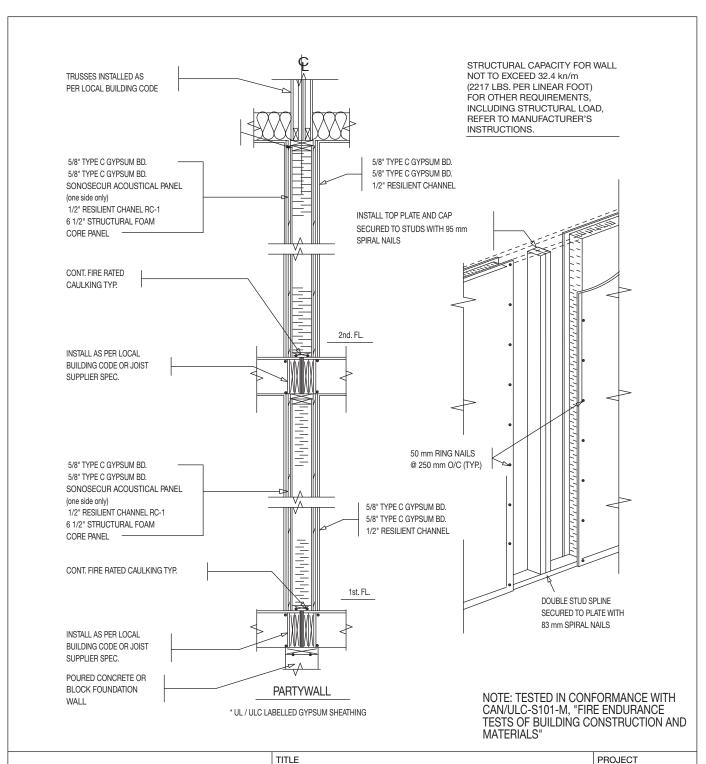
SIP WALL TO ICF CONNECTION (TAPERED TOP OF ICF WALL)



SIP WALL TO ICF CONNECTION (SQUARE TOP OF ICF WALL)



TITLE					PROJECT
WALL SIP TO ICF CONNECTION DETAIL					
	REFERENCE		SCALE		
			N.7		
	DATE		REVISION	DWG. No.	
		MARCH 2024	1	W-23	

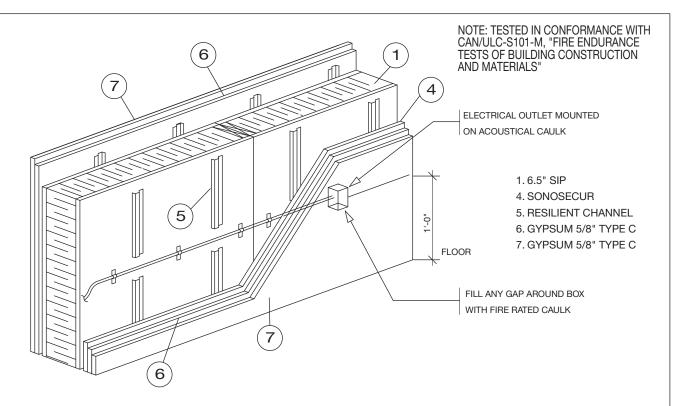




www.thermapan.com 1-877-443-WALL (9255)

60 MIN. PARTYWALL SINGLE WALL STC RATING 50

REFERENCE	SCALE	
	N.	T.S.
DATE	REVISION	DWG. No.
JULY 2023	9	W-PW-1



ASSEMBLY OF RESILIENT CHANNEL (5)

THE RESILIENT CHANNELS ARE ORIENTED VERTICALLY AT 16" (400 mm) OC AND SECURED WITH 1" (25 mm) TYPE W GYPSUM BOARD SCREWS AT 16" (400 mm) OC TO THE STRUCTURAL INSULATED PANEL (SIP)

ASSEMBLY OF SONOSECUR ACOUSTIC PANEL (4)

TACK THE SONOSECUR ACOUSTIC PANEL WITH 1" (25 mm) LONG TYPE W GYPSUM BOARD SCREWS TO HOLD IN PLACE. THE SONOSECUR ACOUSTIC PANEL IS ASSEMBLED ON ONE SIDE ONLY.

ASSEMBLY OF FIRST LAYER 5/8" TYPE C GYPSUM (6)

INSTALL THE FIRST GYPSUM LAYER (6) VERTICALLY ONTO RESILIENT CHANNELS WITH 1" (25 mm) TYPE W GYPSUM SCREWS SPACED 16" (400 mm) OC.

TITLE

ASSEMBLY OF SECOND LAYER 5/8" TYPE C GYPSUM (7)

THE JOINTS OF THE SECOND LAYER SHOULD BE OFFSET AND STAGGERED FROM FIRST LAYER. THE SECOND LAYER SHOULD HAVE 1.75" (44 mm) SCREWS AT 12" (304 mm) OC . THE FIRST LAYER OF GYPSUM DOES NOT HAVE TO BE TAPED. ONLY THE SECOND LAYER HAS TO BE FINISHED. JOINTS SHOULD BE COVERED WITH COMPOUND, COVERED WITH JOINT TAPE AND COVERED WITH AN ADDITIONAL TWO COATS OF JOINT COMPOUND. SCREW HEADS COVERED WITH JOINT COMPOUND.

UL GYPSUM BOARD FIRECODE "C"

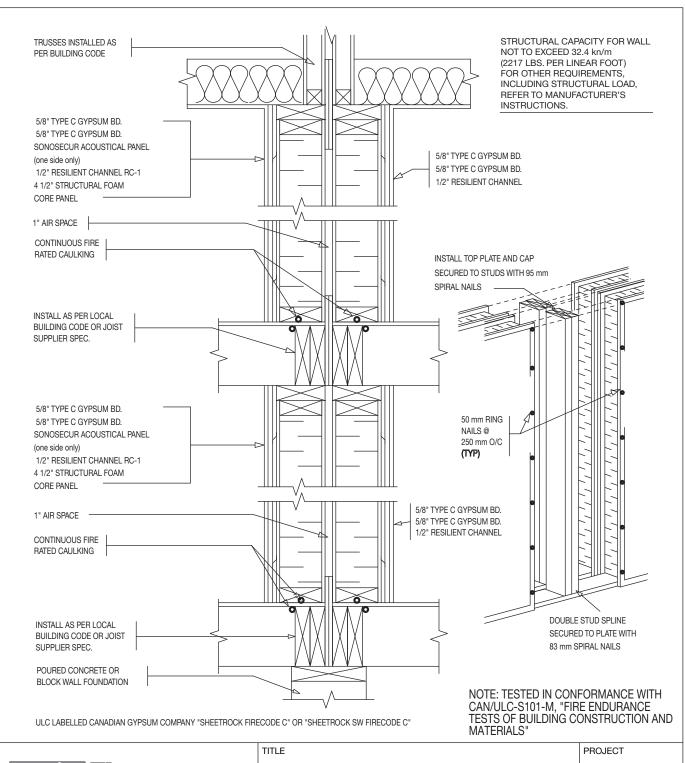
PROJECT



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PARTYWALL ELECTRICAL DETAIL (60 MINUTE WALL RATED ASSEMBLY (SINGLE WALL) STC RATING 50)

REFERENCE		SCALE			
	8015		N.	Г.S.	
DATE		REVISION		DWG. No.	
	JULY 2023		9	W-PW-2	

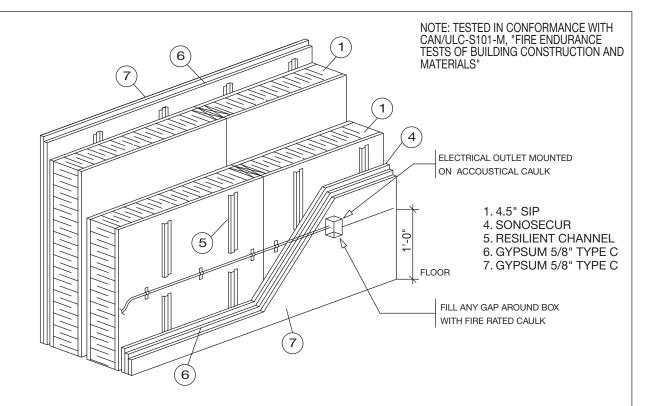




www.thermapan.com 1-877-443-WALL (9255)

60 MIN. PARTYWALL DOUBLE WALL STC RATING 50

REFERENCE		SCALE		
	7016		N.	Г.S.
DATE		REVISION		DWG. No.
	JULY 2023		6	W-PW-3



ASSEMBLY OF RESILIENT CHANNEL (5)

THE RESILIENT CHANNELS ARE ORIENTED VERTICALLY AT 16" (400 mm) OC AND SECURED WITH 1" (25 mm) TYPE W GYPSUM BOARD SCREWS AT 16" (400 mm) OC TO THE STRUCTURAL INSULATED PANEL (SIP).

ASSEMBLY OF SONOSECUR ACOUSTIC PANEL (4)

TACK THE SONOSECUR ACOUSTIC PANEL WITH 1" (25 mm) LONG TYPE W GYPSUM BOARD SCREWS TO HOLD IN PLACE. THE SONOSECUR ACOUSTIC PANEL IS ASSEMBLED ON ONE SIDE ONLY.

ASSEMBLY OF FIRST LAYER 5/8" TYPE C GYPSUM (6)

INSTALL THE FIRST GYPSUM LAYER (6) VERTICALLY ONTO RESILIENT CHANNELS WITH 1" (25 mm) TYPE W GYPSUM SCREWS SPACED 16" (400 mm) OC.

TITLE

ASSEMBLY OF SECOND LAYER 5/8" TYPE C GYPSUM (7)

THE JOINTS OF THE SECOND LAYER SHOULD BE OFFSET AND STAGGERED FROM FIRST LAYER. THE SECOND LAYER SHOULD HAVE 1.75" (44 mm) SCREWS AT 12" (304 mm) OC. THE FIRST LAYER OF GYPSUM DOES NOT HAVE TO BE TAPED. ONLY THE SECOND LAYER HAS TO BE FINISHED. JOINTS SHOULD BE COVERED WITH COMPOUND, COVERED WITH JOINT TAPE AND COVERED WITH AN ADDITIONAL TWO COATS OF JOINT COMPOUND. SCREW HEADS COVERED WITH JOINT COMPOUND.

UL GYPSUM BOARD FIRECODE "C"

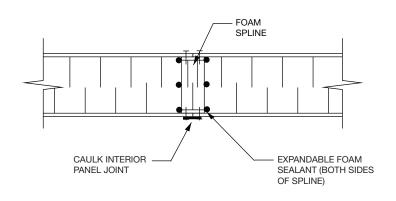
PROJECT

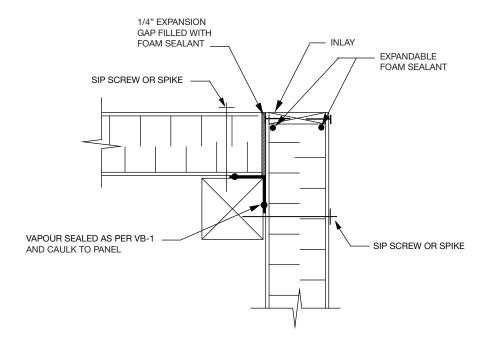


www.thermapan.com 1-877-443-WALL (9255)

PARTYWALL ELECTRICAL DETAIL (60 MIN. WALL RATED ASSEMBLY (DOUBLE WALL) STC RATING 50)

REFERENCE		SCALE		
	8015		N.	Г.S.
DATE		REVISION		DWG. No.
	JULY 2023		7	W-PW-4





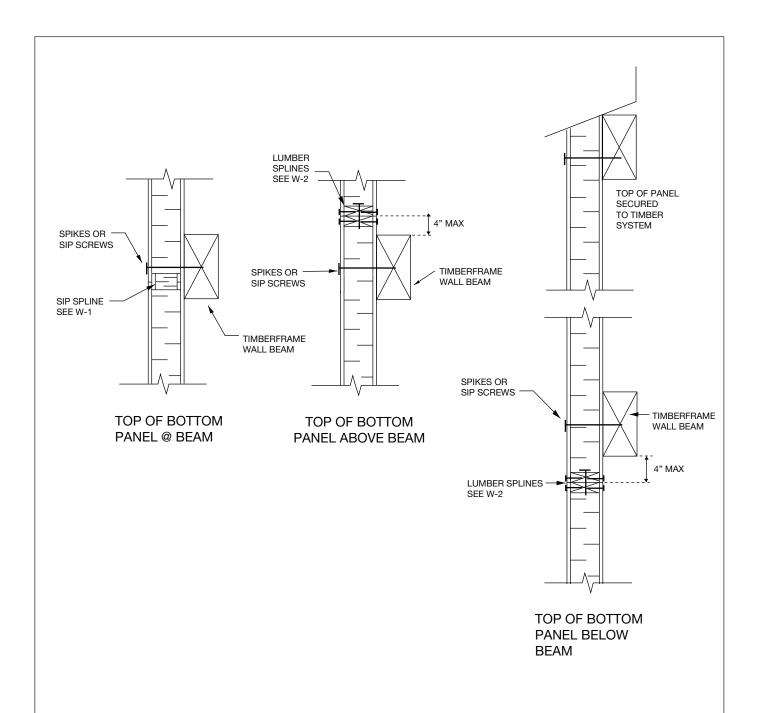
NOTE: REFER TO W-1 FOR SPLINE CONNECTION DETAILS. REFER TO AIR BARRIER (AB-1 & AB-2) DETAILS FOR SEALING SIP CONNECTIONS.

THE PANELS ARE FASTENED TO THE POST AT THE CORNERS AS SHOWN LEAVING A GAP TO BE SEALED WITH EXPANDING SPRAY FOAM.

DIMENSIONAL LUMBER INLAYS COMPLETE THE NAILING SURFACE AT THE CORNER.



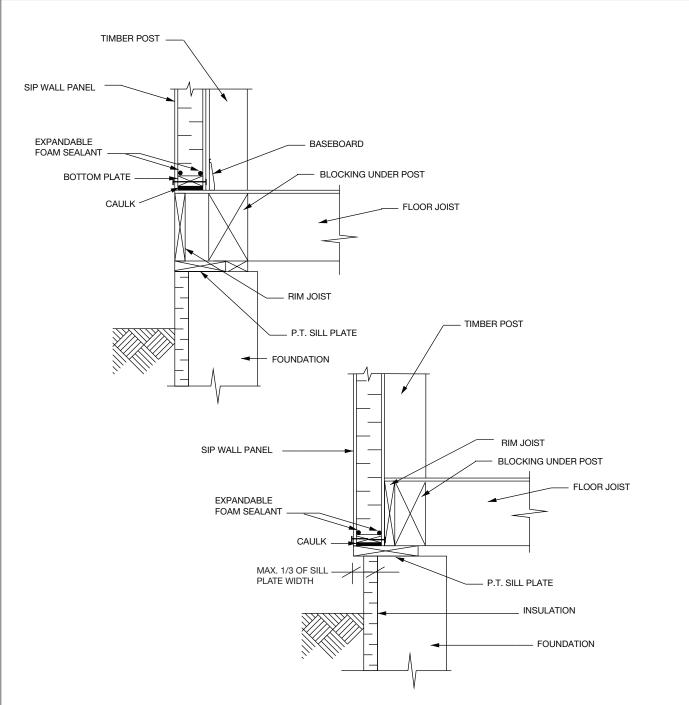
VERTICAL PANE SPLINE & (TIMBER	PROJECT		
REFERENCE			
DATE	REVISION	DWG. No.	
APRIL 2014	6	W-TF-1	



NOTE: REFER TO AIR BARRIER (AB-1 & AB-2) DETAILS FOR SEALING SIP CONNECTIONS.



HORIZO CONNECTION (TIMBER	PROJECT			
REFERENCE	SCALE N.T.S.			
DATE	REVISION		DWG. No.	
APRIL 2014		3	W-TF-2	



NOTE: REFER TO AIR BARRIER (AB-2) DETAIL FOR SEALING SIP CONNECTIONS.



FOUNDATION DECK O	PROJECT		
REFERENCE			
DATE	REVISION	DWG. No.	
APRIL 2014	5	W-TF-3	