

Installation Instructions

LP® LongLength XL™ OSB Sheathing

LP® LongLength XL™ panels are designed to help builders meet the lateral wind shear load and wind uplift load requirements of the IBC (Section 6.4.2.2 of ASCE-7) or IRC (R301.2.1) by providing additional panel length, allowing the transfer of these loads from the upper top plate of the wood frame to the panel, from panel to panel at splice locations (if present) and from panel to the sill plate at the foundation, effectively eliminating the need for uplift straps at these locations. Uplift straps may still be required around window and door openings in exterior walls to transfer the wind uplift loads acting on the header to the foundation. Consult local building code requirements. LongLength XL panels are available in lengths of 97-1/8", 109-1/8" and 121-1/8".

LP LongLength XL panels are to be installed in accordance with the APA (The Engineered Wood Association) Construction Guide E30V and local building codes. For design methodology for specific combined shear and uplift requirements, refer to APA System Report SR-101C (Design for Combined Shear and Uplift from Wind) and SR-103A (Use of Wood Structural Panels for Energy-Heel Trusses). See complete APA reports at APAwood.org.

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- Comply with all manufacturer's instructions and local safety regulations when installing LongLength XL sheathing.
- Before installation, allow panels to acclimate to surrounding environmental conditions for at least 48 hours.
- LongLength XL panels are engineered to be installed with the long axis applied parallel to supports.
- Panel thickness must be a minimum of 7/16".
- Panels shall be applied continuously across a minimum of two spans (see Figure 1). Provide a 3/4" expansion joint between continuous wall sections exceeding 80' in length. Consult local building codes for requirements.
- All adjacent panel edges shall be spaced 1/8".

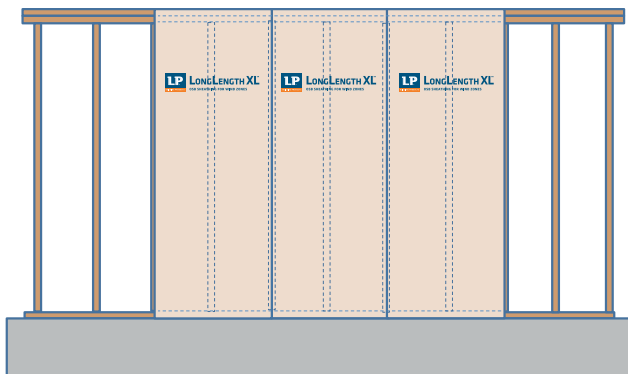


Figure 1: Application Across Multiple Spans

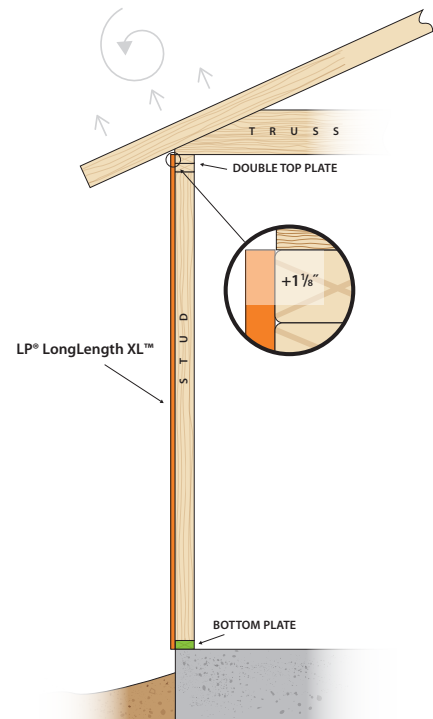


Figure 2: Overlap Top and Bottom Plates

- For one-story construction, panels shall be attached to the bottom sill plate and top member of the double top plate (see Figure 2). Where an energy-heel truss is used, the panel shall butt to the bottom of the top cord of the truss (see Figure 3).

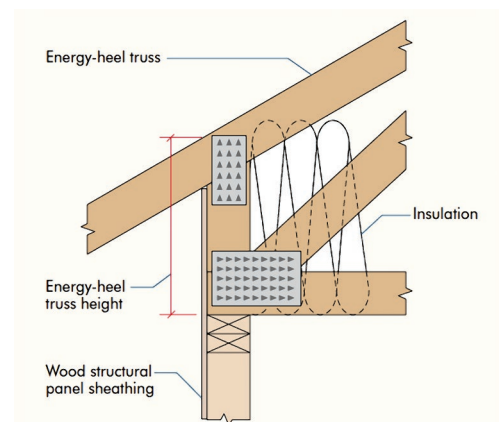


Figure 3: Overlap Energy-Heel Trusses

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- For two-story construction, the upper panel shall attach to the top double plate and the rim joist. The lower panel shall attach to the bottom plate and the rim joist. The panel ends don't have to fall in the center of the rim joist (see Figure 4).

- Space 8d fasteners a minimum of 6" along the panel edges and ends, and a minimum of 12" along the supports in the field of the panel (See Figure 5). Larger and/or additional fasteners will increase the capacity of the wall to resist shear and uplift forces. Consult the APA Construction Guide or System Reports (referenced above) to determine the appropriate fastener schedule to achieve the desired wall performance. Local building codes may dictate a specific fastener schedule.

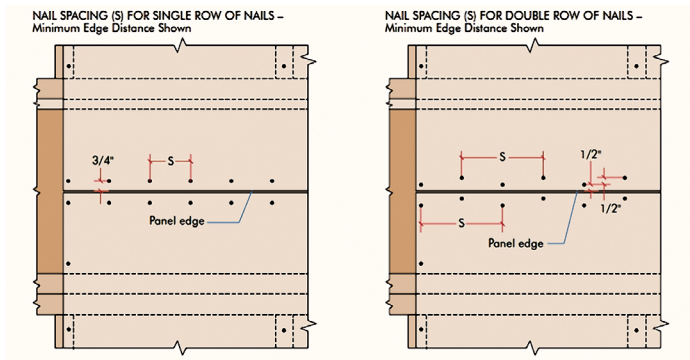
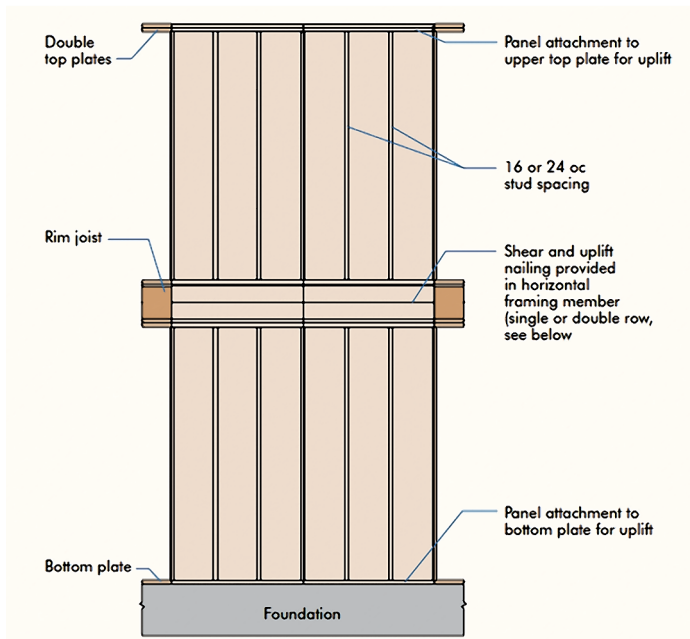


Figure 4: Two-Story Application

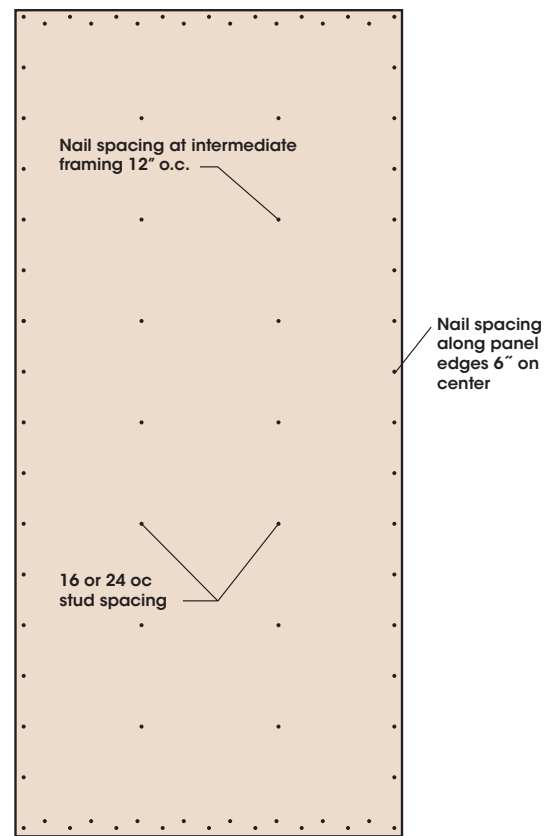


Figure 5: Fastening Edges and Field

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 (cont.)

- Fasteners shall be placed 3/8" away from panel edges when fastening along the long axis (see Figure 6).
- When a single row of fasteners are used along the panel ends, place them 3/4" away from the panel end, in effect centering them within the sill or top plate.
- When double rows of fasteners are used along the panel ends and within a single sill or top plate:
 - a. Space the rows 1/2" apart from one another
 - b. Fasten 1/2" from the top and bottom of the sill or top plate
 - c. Stagger the fasteners in one row from those in the adjacent row by 50% of the spacing (S) used

- For added wall performance, cut full panels around window and door openings instead of using small pieces to sheath the perimeter (see Figure 7). Builders must comply with local building codes regarding the use of anchors and ties at window and door openings.

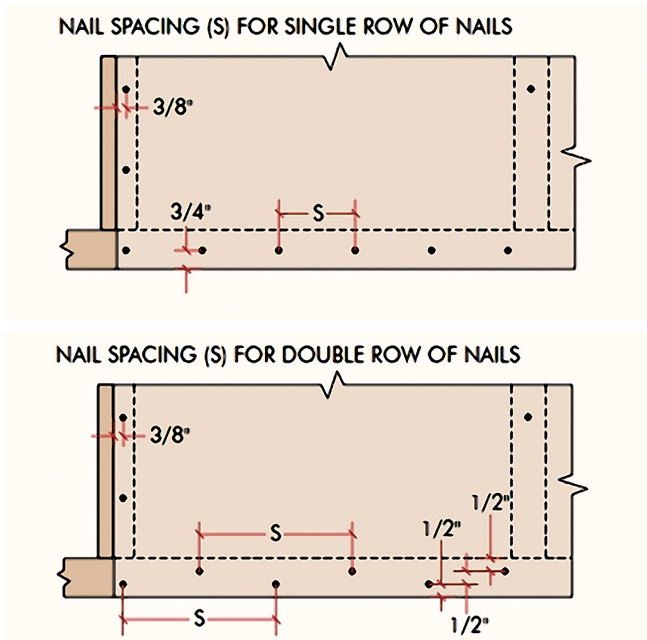


Figure 6: Fastening Edges and Ends

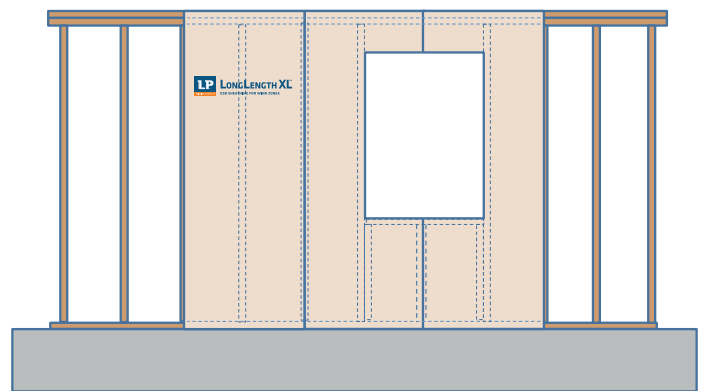


Figure 7: Proper Cut Around Windows and Doors

Call LP customer service or visit our website for more information on LP LongLength XL OSB Sheathing and other LP products.

Cal. Prop 65 Warning: Use of this product may result in exposure to wood dust, known to the State of California to cause cancer.

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