

LP NOVA CORE™ THERMAL INSULATED SHEATHING INSTALLATION INSTRUCTIONS

GENERAL:

- LP NovaCore™ Thermal Insulated Sheathing is approved only for installation on walls and has been evaluated for compliance with the International Residential Code (IRC) and the International Building Code (IBC) as follows:

- As an alternative to the wood structural panel (WSP) method for the intermittent braced wall provisions of Section R602.10 of the IRC and Section 2308 of the IBC. Refer to APA Product Report® PR-N139 for additional information.
- As shear wall in accordance with the provisions of Section 2305 of the IBC. Refer to APA Product Report PR-N139 for shear wall design information.

NOTE: Segments of a wall with openings **DO NOT** count as the length of braced wall or as shear wall.

- Install the panels in accordance with the requirements of the IRC or the IBC, and as modified by these instructions.
- Caution:** LP NovaCore panels are nominally 1-7/16" thick. To account for the thickness of the panels, additional framing may be needed at corners where intersecting panels overlap. Wall stud spacing may also need to be adjusted to meet the minimum braced wall panel length requirements in Section R602.10.5 of the IRC or Section 2308.6.4 of the IBC (typically nominal 48").
- All mechanical strapping or connectors (e.g., to resist uplift) must be installed directly to the wall framing before installing the LP NovaCore panels.
- An approved thermal barrier, such as a minimum of 1/2" gypsum wallboard, must be installed on the interior side of the wall framing, opposite the LP NovaCore panels, in accordance with Section R316.4 of the IRC or Section 2603.4 of the IBC.
- DO NOT allow foam insulation in contact with flame or heat sources over 165° F.**
- LP NovaCore panels must be covered by an approved water-resistive barrier.
- Use of an interior vapor retarder with LP NovaCore panels shall be in accordance with the continuous foam insulation provisions of Section 702.7 of the IRC or Section 1404.3 of the IBC.
- The OSB substrate of LP NovaCore panels is NOT preservative-treated and must be installed in accordance with the code for untreated wood structural panel wall sheathing. The OSB must not be in direct contact with concrete or masonry foundations. In the absence of approved project specifications:
 - When the OSB is located above the foundation (wall framing set back from face of foundation), provide a minimum 1/2" gap between the bottom edge of the panel and the foundation.
 - When the OSB extends along the outside of the foundation, provide an air gap behind the OSB or protect it from direct contact with the foundation with flashing or other impervious material.
 - Always maintain code-required clearance above grade.

- Termites: LP NovaCore panels are NOT treated for protection against termites. Follow all code requirements for protection of wood structural panels and foam insulation. Refer to Sections R316.7 and R318 in the IRC, and Sections 2304.12 and 2603.8 in the IBC.
- LP NovaCore panels can be cut with standard woodworking tools. Note: It can be easier to cut the panels from the OSB side.
- Exercise safe practices at all times while handling and using this product. Refer to the LP NovaCore Safety Data Sheet (SDS) for important information on the safe handling and use of this product. These can be found at LPCorp.com.

WALL INSTALLATION:

- LP NovaCore panels must be installed with the foam direct to the studs, with the OSB to the outside.
- Wall studs must be minimum 2x4 framing lumber, spaced no more than 24" oc.
- The panels may be installed vertically or horizontally. In horizontal installations, stagger joints a minimum of one stud space.
- All panel edges must be backed by framing or 2x blocking** except that horizontal edges may be left unblocked when not used as a braced wall or shear wall panels.
- Provide 1/8" minimum space between panel ends and edges. Use a spacer tool (e.g., a 10d box nail) to assure accurate and consistent spacing.
- To nail panels to the framing and blocking:
 - Nails must be a minimum of 3" long x 0.131" diameter, full round head, framing nails. Nails may be galvanized or stainless steel if specified or if required by code.
 - For braced wall panels, panel edge nails must be spaced no farther than 4" oc. For shear walls, panel edge nails shall be 3" oc or 4" oc, as specified. Exception: When not used as bracing or shear wall panels, panel edge nailing may be 6" oc.
 - Panel field nails must be spaced no more than 12" oc along intermediate supports.
 - Place nails 3/8" from all panel edges except at outside corners the nails may be set back approximately 2" from the panel edge depending on the overlap detail used (see Figure 1).
 - Nail heads must be flush to the OSB.
 - **DO NOT** overdrive the nails. Reduce pressure to the gun if needed to avoid overdriving or breaking the corners of the OSB. In case of a broken corner, add a nail 1" away from the break along both adjoining edges of the panel.



▪ Framing at corners:

- Outside corners (see Figure 1): Install the 1st panel to within an 1/8" of the edge of the corner end stud. Install the 2nd panel to overlap so that the edge of the 2nd panel is flush with the outer face of the OSB from the 1st panel. Alternatively, the foam of the 2nd panel may be trimmed and the 1st panel shifted to cover the foam of the 2nd panel (leave an 1/8" gap). Note that nails will be approximately 2" from the corner depending on the detail.

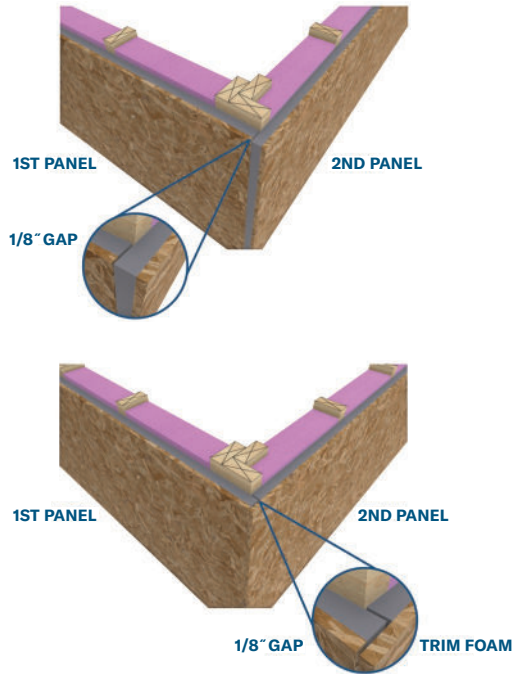


Figure 1: Installing LP NovaCore™ panels at outside corners.

- Inside corners (see Figure 2): Install the 1st panel into the flat stud of the connecting wall (leave an 1/8" gap). Install the 2nd panel from the other side to leave an 1/8" gap with the 1st panel. Two options are shown. The details shown assume 2x4 wall framing. Adjust as needed for 2x6 or larger wall framing.

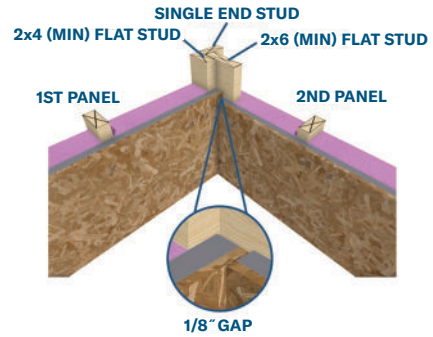
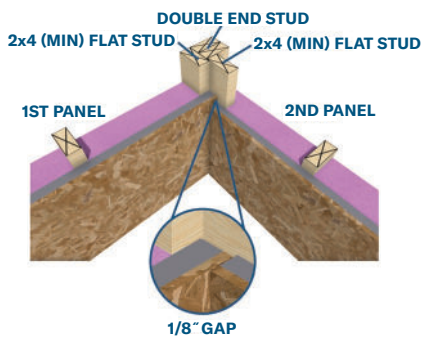


Figure 2: Installing LP NovaCore panels at inside corners.

STORAGE & HANDLING:

- Store LP NovaCore panels indoors or protected from extended UV exposure of the foam or water exposure of the sheathing prior to installation.
- Keep panels off the ground, well-supported, on a flat surface.
- Use a minimum of 3 stickers spaced evenly under each unit. Stickers shall be a minimum 2-1/2" wide (i.e., a flat 2x3).
- Ensure stickers are aligned vertically when stacking units.
- **DO NOT** stack higher than 3 units.
- Space unit stacks a minimum of 6" on all sides.
- LP NovaCore panels are packaged with a weather-resistant unit cover to provide protection on the jobsite prior to installation. Replace the cover over the unused portion of panels. Keep panels clean and dry. Inspect prior to application.
- If the original cover cannot be used, use only opaque white covers to avoid damage to the foam. **DO NOT** use non-white or non-opaque covers as these can build up excess heat or expose the foam to UV.
- Be careful not to drop on corners or crush the edges of the foam insulation. Note: A panel with damaged foam may still be used as a fill-in panel by cutting off the affected area and trimming to the needed size.



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For product catalog & complete warranty details, visit LPCorp.com/NovaCore today!

WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

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