

Product: LP NovaCore™ Thermal Insulated Sheathing  
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1. Basis of the product report:
  - 2021, 2018, and 2015 International Building Code (IBC): Sections 104.11 Alternative materials and 2303.1.5 Wood structural panels
  - 2012 IBC: Sections 104.11 Alternative materials and 2303.1.4 Wood structural panels
  - 2021, 2018, 2015, and 2012 International Residential Code (IRC): Sections R104.11 Alternative materials and R503.2 Wood structural panel sheathing
  - DOC PS 2, Performance Standard for Wood Structural Panels
  - APA Report T2022P-06 and other qualification data
2. Product description:

LP NovaCore™ Thermal Insulated Sheathing is an insulated sheathing made by combining 7/16 Category OSB with a layer of nominal 1-inch thick XPS rigid foam insulation laminated to the OSB with a non-structural polyvinyl acetate (PVA) adhesive. The OSB is made with strands of various species and strand classifications, meeting DOC PS 2 in accordance with the in-plant manufacturing standard approved by APA.

LP NovaCore Thermal Insulated Sheathing is available in a thickness of 1-7/16 inches and in 4x8-foot nominal panel size with square edges. The XPS foam specification and the PVA glue bond applications are specified in the in-plant manufacturing standard, but are beyond the scope of the APA certification.
3. Design properties:

Table 1 lists the NovaCore Thermal Insulated Sheathing installation requirements for the IRC intermittent wall bracing. Additional design information is available from the manufacturer ([www.lpcorp.com](http://www.lpcorp.com)).
4. Product installation:

LP NovaCore Thermal Insulated Sheathing recognized in this report shall be installed with the foam direct to studs and used in accordance with the recommendations provided by the manufacturer.
5. Limitations:
  - a) LP NovaCore Thermal Insulated Sheathing recognized in this report shall be permitted for use as prescriptive intermittent wall bracing in Seismic Design Categories A, B and C (excluding townhouses in C) and in regions where wind design is not required by Section R301.2.1.1 of the IRC when installed in accordance with the requirements specified in this report and the recommendations provided by the manufacturer.
  - b) LP NovaCore Thermal Insulated Sheathing is limited to dry service conditions that result in the average equilibrium moisture content of sawn lumber of less than 16%.
  - c) LP NovaCore Thermal Insulated Sheathing shall be covered with a water resistive barrier on the exterior of the OSB sheathing in accordance with the code.
  - d) An approved thermal barrier, such as minimum ½-inch gypsum wallboard, shall be installed on the interior side of the wall framing, opposite the LP NovaCore Thermal Insulated Sheathing, in accordance with Section R316.4 of the IRC.

- e) Fire resistance of LP NovaCore Thermal Insulated Sheathing is beyond the scope this report.
- f) The 1-inch thick XPS foam insulation is supplied by a foam manufacturer in accordance with the in-plant manufacturing standard and its certification is beyond the scope of this report.
- g) The 7/16 Category OSB sheathing is manufactured at LP facility in Thomasville, Alabama (APA assigned plant number 520) and certified by APA.
- h) This report is subject to re-examination in one year.

6. Identification:

The NovaCore Thermal Insulated Sheathing described in this report is identified by a label bearing the manufacturer's name (Louisiana-Pacific Corporation) and/or trademark, the report number PR-N139, and a means of identifying the date of manufacture.

Table 1. Intermittent Wall Bracing Nailing Requirements for LP NovaCore Thermal Insulated Sheathing in Accordance with the 2021, 2018, 2015, and 2012 IRC (WSP Method)

Framing <sup>(a)</sup>		Nailing Requirement		
Nominal Stud Size (Minimum)	Maximum Stud Spacing (in.)	Minimum Nail Size <sup>(b)</sup>	Maximum Spacing Edge <sup>(c)</sup> /Field (in.)	Minimum Penetration into Framing (in.)
2 by 4	24	0.131 x 3 inches	4/12	1.5

For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 lbf = 0.454 kg, 1 psi = 6.9 kPa.

- <sup>(a)</sup> All panel edges must be backed by framing or blocking. Exception: When not used as bracing panels, the horizontal edges may be left unblocked.
- <sup>(b)</sup> Nails must be full round head of a type generally used to attach wood structural panel sheathing.
- <sup>(c)</sup> All panel edge nails must be located approximately 3/8 inch from panel edges except at the corner of a brace wall line, in which the recommendation by the manufacturer shall be followed.

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