Thermo-ply® Structural Sheathing for Strong Structures:

Strengthen your building envelope and bottom line with Thermo-ply® Structural Sheathing.

A stable-priced, high-performance alternative to wood structural panels, Thermo-ply® meets or exceeds building codes, provides an efficient WRB and best in class Air Barrier.
Walls built with Thermo-ply are High Performance Walls

STRONG WALLS
Composed of pressure laminated plies consisting of high-strength cellulosic fibers. Fibers are specially-treated to be water resistant and are bonded with a proprietary water-resistant adhesive. A protective polymer layer is applied on both sides of the panel, and foil facings may be applied on one or both faces.

STRONG WATER RESISTANCE and AIR BARRIER
- Factory-extrusion coating for built-in Water Resistive Barrier with ¾” overlapped joints OR taped joints.
- Air tight seal to studs reduces air leakage and provides best-in-class air barrier
- AMG (Advanced Moisture Guard) option provides adhesive with the 3/4” overlap. Provides self adhesive overlap panel joints for even tighter water and air barrier performance.

STRONG ENVIRONMENT
- Free of Harmful chemicals, VOC-free and no toxic bonding agents
- No added asphalts, formaldehyde, phenols or CFCs
- Made from 94% recycled fibers and is 99% recyclable

STRONG COMPETITIVE EDGE and BOTTOM LINE
- Stable Pricing
- Thermo-ply grades to fit needs all over the house: In addition to exterior wall sheathing, consider using Thermo-ply as an air barrier in internal sheathing applications that require a thin air-barrier or draft stop.
- Temporary surface protector for floors and countertops.
- Light-weight, durable and easy installation
- Custom sizes and private label
- Made in USA

<table>
<thead>
<tr>
<th>Thermo-ply Options</th>
<th>OSB</th>
</tr>
</thead>
<tbody>
<tr>
<td>94% post consumer recycled content, contains no added formaldehyde or toxic agents</td>
<td>Made from wood chips, may contain formaldehyde</td>
</tr>
<tr>
<td>Stable Pricing</td>
<td>Commodity - rapid price fluctuations</td>
</tr>
<tr>
<td>Extrusion Coated WRB both sides</td>
<td>Requires additional WRB layer</td>
</tr>
<tr>
<td>High moisture tolerance</td>
<td>Low moisture tolerance - significant swelling when wet. Source for mold</td>
</tr>
<tr>
<td>Tight seal controls air infiltration for lower ACH</td>
<td>Average air infiltration performance</td>
</tr>
<tr>
<td>Custom sizes and private labeling available</td>
<td>Typically no custom sizes or print available</td>
</tr>
<tr>
<td>~13 lbs for 4’x8’ sheet</td>
<td>45 lbs for 4’x8’ sheet</td>
</tr>
</tbody>
</table>

*Formaldehyde is classified as a probable human carcinogen by the U.S. Environmental Protection Agency. Thermo-ply is a registered trademark of OX Engineered Products, LLC and all other trademarks, registered trademarks, copyrights and logos are the property of their respected owners.
APPLICATIONS:
- Wall sheathing for buildings constructed in accordance with IRC and IBC for light-frame construction
- Structural wall sheathing to provide lateral load resistance (wind and seismic) for braced wall panels used in light-frame construction
- Structural wall sheathing to provide resistance to transverse loads for wall assemblies
- Structural wall sheathing to provide resistance to uplift loads for wall assemblies
- Approved WRB
- Approved air-barrier material
- Where other means of wall bracing are provided or not required, any grade of Thermo-ply may be used in non-structural applications as outlined in DRJ Evaluation Reports
- Gable Ends on Trusses
- Air barrier behind shower units and other internal sheathing applications that require a thin air-barrier or draft stop.
- Temporary floor or surface coverings protection
- Templates and Layout

THERMO-PLY® INSTALLATION INSTRUCTIONS

1. Orientation & Fastener Pattern
   - Install vertically or horizontally
   - Fastener Pattern for Structural: 3 o.c.
   - Start at #1 and move across panel
   - DO NOT fasten 4 corners first
   - DO NOT use as a nail base

   
   Joints/Water Resistive Barrier Options
   - To achieve approved WRB, joints can be overlapped OR butted and taped with approved tape.
   - Lapped seams should be overlapped by 3/4” and fastened with single row fasteners.

2. Fastening
   - Use 16 gauge 1” crown, 1 1/4” length staple OR
   - 11 ga. 1 1/4” length roofing nail
   - Staple crown should be flush.
   - Staples should run parallel with framing

INSTALLATION

General for Structural and WRB Applications
All Thermo-ply Grades shall be installed in accordance with the manufacturer’s published installation instructions in the Evaluation Report. Where Thermo-ply extends beyond the bottom of a wall and overlaps the band joist below, fasten the bottom edge of the Thermo-ply to the wall bottom plate where it meets the band joist. Due to shrinkage of the band joist, do not fasten the sheathing to the band joist.

Window Treatment: If windows and doors are made to accommodate traditional 1/2” sheathing materials, order window with adjustable nailing fins from the supplier. Door brick moldings may be planed or routed 5/16” in order to accommodate the different sheathing thickness, whether at the jobsite or from the millwork supplier. Thermo-ply must be installed with appropriate flashing and counter flashing in conformance with manufacturer’s install instructions, accepted building standards and in compliance with local building codes.
Physical Properties Thermo-ply Structural Sheathing

<table>
<thead>
<tr>
<th>Physical Property</th>
<th>Standard</th>
<th>Test Result</th>
<th>Unit of Measure</th>
</tr>
</thead>
<tbody>
<tr>
<td>R-value</td>
<td>ASTM C518</td>
<td><strong>Green: .13</strong></td>
<td><strong>Red: .18</strong></td>
</tr>
<tr>
<td>Drainage efficiency</td>
<td>ASTM E2273</td>
<td>97.8</td>
<td>%</td>
</tr>
<tr>
<td>Sound Transmission*</td>
<td>ASTM E90</td>
<td><strong>STC 39</strong></td>
<td>dB</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM D1037</td>
<td>Less than 5</td>
<td>%</td>
</tr>
<tr>
<td>Permeability</td>
<td>ASTM E96</td>
<td>&lt;0.6</td>
<td>Perms</td>
</tr>
<tr>
<td>Air Barrier</td>
<td>ASTM E2178</td>
<td>&lt;0.02</td>
<td>L/s/M² @ 75 Pa</td>
</tr>
</tbody>
</table>

*As measured in a typical wall assembly.

PRODUCT NAME AND DESCRIPTION:
THermo-Ply STRUCTURAL SHEATHING

BASIC USE:
Thermo-ply is a code-approved exterior structural sheathing, water resistive barrier and air barrier. Reference DrJ Technical Evaluation Reports 1004-01, 1004-02, 1004-03.

COMPOSITION AND MATERIALS:
Composed of pressure laminated plies consisting of high-strength cellulosic fibers. These fibers are specially-treated to be water resistant and are bonded with a proprietary water-resistant adhesive. A protective polymer layer is applied on both sides of the panel, and foil facings may be applied on one or both faces.

TECHNICAL DATA:
Construction Specifications Institute
Identification Codes: Sheathings: 06115
Structural Panels: 06120
Building Insulation: 07210
Draft Stop: 07270

NOTICE: No freedom from any patent owned by OX Engineered Products, LLC or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer’s use and for insuring that Customer’s workplace and disposal practices are in compliance with applicable laws and other government enactments. OX Engineered Products, LLC assumes no obligation or liability for the information in this document. The product shown in this literature may not be available for sale/and or available in all geographies where OX Engineered Products, LLC is represented. The claims made may not have been approved for use in all countries or regions. NO EXPRESS WARRANTIES ARE GIVEN EXCEPT FOR ANY APPLICABLE WRITTEN WARRANTIES SPECIFICALLY PROVIDED BY OX. ALL IMPLIED WARRANTIES INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. All disputes for any product or service provided by OX should be determined under the applicable laws of the Commonwealth of Pennsylvania and have the proper and exclusive venue in the York County Court of Common Pleas, York, PA, or the Federal Circuit Court for the Middle District of Pennsylvania.

STRUCTURAL:
Transverse and Lateral wall bracing in compliance with the IRC and the IBC Type V Construction.

AIR & WATER RESISTIVE BARRIER:
When installed in accordance with manufacturer’s install instructions, Thermo-ply is approved as WRB and air barrier. All joints must be installed with one of two techniques:
1. Joints overlap at least 3/4” OR
2. Joints are taped with approved tape.

COMPONENT OF 1-HOUR FIRE ASSEMBLY:

AVAILABILITY:
Visit www.oxengineeredproducts.com to find an OX Sales Rep near you.

WARRANTY:
Thermo-ply is backed by a 10 Year Limited Warranty