

Thermo-ply[®] Sheathing Technical Specifications Sheet

PRODUCTNAME

Thermo-ply Sheathing

MANUFACTURER

Ludlow Coated Products
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PRODUCTDESCRIPTION

Grades: Standard Grade (green) .078"
Structural Grade (red) .113"
Structural Grade (blue) .137"

Basic Use: Thermo-ply Sheathing is used, where required by code, to provide support for interior and exterior wall surfaces for the lifetime of the structure. Installing sheathing on an entire home or structure is generally the most common industry practice. Several additional uses exist, including corner bracing.

Precautions and Limitations: Refer to individual code reports for the various findings and limitations applicable to the specific code areas of influence.

Composition and Materials: Thermo-ply Sheathing is composed of high-quality, long-fibered, specially treated water- and weather-resistant plies. Plies are pressure laminated. A special water-resistant adhesive is used. Standard sizes are 48" x 96", 48.75" x 96", 48" x 108" and 48.75" x 108". Lengths up to 144" can be manufactured. Thermo-ply is available with a variety of approved outer facings, including poly and foil.

TECHNICALDATA

Construction Specifications Institute Identification Codes:

Sheathings	06115
Structural Panels	06120
Building Insulation	07210
Firestopping (draft stop)	07270

Applicable Standards: Thermo-ply Sheathing meets and/or exceeds all major code requirements, including:

HUD/FHA material release No. 286 (Structural); 840 (Standard); 942 (Structural~Blue--24"o.c.)

See evaluation reports: BOCA (All grades), ICBO (All grades), SBCCI (All grades)

Thermo-ply can be used to meet the new FmHA and FHA insulation standards. Write Ludlow Coated Products for further information.

1-Hour Fire Resistive Construction:

Thermo-ply Structural Grade~Red and Structural Grade~Blue may be used in a 1-hour fire-rated wall system, in accordance with the Standard Methods of Fire Tests of Building Construction and Materials using ASTM E-119 testing procedures. Refer to individual code reports for various approved wall assemblies and limitations.

Perm Rating: Perm ratings range from 0.53 - 0.63 depending on grade.

INSTALLATION

Standard Grade~Green, .078"

1. An approved corner bracing is required when installed on standard wood framing up to 24" o.c. Thermo-ply is attached to the framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 6" o.c. on all panel edges and 12" o.c. on intermediate supports.
2. All joints shall occur over studs, plates or solid blocking. Joints may be lapped or butted. Butt joints shall be gapped 1/16" minimum.
3. Cut or trim with saw, knife or router.
4. Thermo-ply shall not be used as a nail base.

Structural Grade~Red, .113"

1. When installed on maximum 16" o.c. framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 3" o.c. on all panel edges and 6" o.c. on intermediate supports, it is a shear panel and no corner bracing is required. (This fastening schedule is only required for sheets used as shear panels.)
2. When installed for use as a non-structural sheathing panel, the sheets shall be attached to the framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 6" o.c. on all panel edges and 12" o.c. on intermediate supports.
3. When installed on studs greater than 16" o.c., an approved corner brace is required.

The fastening schedule for sheathing panels is to be followed in attaching the sheets to the framing.

4. All joints shall occur over studs, plates or solid blocking. Joints may be lapped or butted. When joints are lapped, one row of fasteners can be applied through both sheets and must penetrate a full 1" into the framing member. Butt joints shall be gapped 1/16" minimum.
5. Cut or trim with saw, knife or router.
6. Thermo-ply shall not be used as a nail base.

Structural Grade~Blue, .137"

1. When installed on maximum 24" o.c. framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 3" o.c. on all panel edges and intermediate supports, it is a shear panel and no corner bracing is required. (This fastening schedule is only required for sheets used as shear panels.)
2. When installed on maximum 16" o.c. framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 3" o.c. on all panel edges and 6" o.c. on intermediate supports, it is a shear panel and no corner bracing is required. (This fastening schedule is only required for sheets used as shear panels.)
3. When installed for use as a non-structural sheathing panel, the sheets shall be attached to the framing with 1 1/4" galvanized roofing nails, 16 gauge 7/16" crown x 1 1/4" leg staples or 1" crown x 1 1/4" leg staples spaced 6" o.c. on all panel edges and 12" o.c. on intermediate supports.
4. All joints shall occur over studs, plates or solid blocking. Joints may be lapped or butted. Butt joints shall be gapped 1/16" minimum.
5. Cut or trim with saw, knife or router.
6. Thermo-ply shall not be used as a nail base.

Fastening Procedure: It is important to work from one side of the panel to the other. Begin fastening from the top of the panel to the bottom. Moving across the panel, attach fasteners at the top and bottom of the panel until you reach the next stud. When using staples, fasten them in a parallel direction to the stud. Continue in the same manner until the Thermo-ply panel is properly secured to the frame. In order to prevent gaps or rippling, move across from one side of the panel to the other when installing. **DO NOT** fasten each of the four corners first.

Thermo-ply Sheathing

AVAILABILITY AND COST

Availability: Nationwide distribution facilities stock Thermo-ply and provide prompt delivery to most local building material/lumber dealers. In addition, Ludlow field representatives are located in every part of the country to provide the best possible service.

Cost: Thermo-ply Sheathing is competitively priced. For specific information, contact a Ludlow representative.

WARRANTY

Ludlow Coated Products guarantees the manufacturing of Thermo-ply Sheathing. All products shipped from the manufacturing facility will be free of defects at the time of shipping.

MAINTENANCE

When applied in accordance with manufacturer's recommendations, Thermo-ply Structural Sheathing will not require maintenance.

TECHNICAL SERVICES

Support is provided by full-time technically-trained field representatives and technical service personnel. In addition, Ludlow Coated Products is backed by a research, development and service staff.

For further information, literature or technical support, contact Ludlow Coated Products at 800.345.8881

Information contained in this bulletin conforms to the standard detail recommendations and specifications for the installation of Thermo-ply Sheathing and is presented in good faith. Ludlow Coated products assumes no liability, expressed or implied as to the architecture, engineering, or workmanship of any project. This information may be concurrent with, or superseded by other applicable documents. Ludlow Coated Products must approve any deviations from published literature, in writing, prior to application. Contact Ludlow Coated Products for most current product information.

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