



# thermoPLY<sup>®</sup>

weatherization system

**ENCLOSE WITH STRENGTH.  
WEATHERIZE WITH CONFIDENCE.**

**ALL IN ONE.**

**Structural Sheathing +  
Air Barrier (AB) +  
Water Resistive Barrier (WRB)**



## WHAT IS THE THERMOPLY WEATHERIZATION SYSTEM?

Consisting of strong ThermoPLY structural sheathing panels, OX Seam Tape, and OX Butyl Flashing Tape, ThermoPLY weatherization system provides a code-approved structural sheathing, best-in-class air barrier (AB), and water resistive barrier (WRB), backed by a 30-year limited warranty.

- Durable and high-strength cellulosic fiber board
- Protective extrusion-coated polymer on both sides
- Offered in three structural grades
- Available in lengths up to 14' for faster installs

**30**  
**YEAR**  
LIMITED WARRANTY

## THERMOPLY SHEATHING GRADES

### BLUE HIGH STRUCTURAL GRADE

**Thickness:** 0.135"

**Widths:** 48", 48¾", 49" (AMG only)<sup>1</sup>

**Lengths:** 8', 9', 10', custom lengths up to 14'

504 lbs/MSF

250 sheets/skid

### RED STANDARD STRUCTURAL GRADE

**Thickness:** 0.113"

**Widths:** 48", 48¾", 49" (AMG only)<sup>1</sup>

**Lengths:** 8', 9', 10', custom lengths up to 14'

414 lbs/MSF

300 sheets/skid

### GREEN LIGHT STRUCTURAL GRADE

**Thickness:** 0.078"

**Widths:** 48", 48¾", 49" (AMG only)<sup>1</sup>

**Lengths:** 8', 9', 10', custom lengths up to 14'

290 lbs/MSF

400 sheets/skid



**STRONGEST**

**STRONGER**

**STRONG**

### OX SEAM TAPE

For sealing panel-to-panel joints<sup>2</sup>



### OX BUTYL FLASHING TAPE

For inside/outside corners, windows, and doors



<sup>1</sup>Advanced Moisture Guard (AMG) option includes adhesive for overlapping panel joints ¾" for enhanced AWB performance

<sup>2</sup>Alternatively, panels may be overlapped ¾", eliminating seam taping

## COMPARE THE BENEFITS OF THERMOPLY VS. OSB

**thermoPLY**  
weatherization system

Extrusion-coated WRB on both sides  
Price stable  
Lengths up to 14' for speed/labor savings  
Private labeling availability  
High moisture resistance  
Tight seals for superior air control and lower ACH  
Lightweight handling – 13 lbs for 4' x 8' sheet (RED)

**OSB**

Requires additional WRB layer (e.g., house wrap)  
Rapid price fluctuations  
Typically 8' lengths  
No private labeling  
Low moisture resistance, vulnerable to swelling, rot, and mold  
Average air infiltration performance  
Heavy – 45 lbs for 7/16" x 4' x 8' sheet

VS.

## THERMOPLY STRUCTURAL SHEATHING PERFORMANCE PROPERTIES

PHYSICAL PROPERTY	STANDARD	TEST RESULT	UNIT OF MEASURE
<b>R-VALUE</b>	ASTM C518	<b>.20</b> <b>.18</b> <b>.13</b>	F. Ft <sup>2</sup> . h/Btu*
<b>DRAINAGE EFFICIENCY</b>	ASTM E2273	97.8	%
<b>SOUND TRANSMISSION</b>	ASTM E90	STC 21 Assembly yielded STC rating*	dB
<b>WATER ABSORPTION</b>	ASTM D1037	Less than 15	%
<b>PERMEABILITY</b>	ASTM E96	< 0.6	Perms
<b>AIR BARRIER</b>	ASTM E2178	< 0.02	L/s/M <sup>2</sup> @ 75 Pa

\*As measured in a typical 2x4 wall assembly with R-13 batt and 1/2" GWB.

### BASIC USE

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

### STRUCTURAL

Transverse and lateral wall bracing in compliance with the IRC and the IBC Type V Construction.

### AIR & WATER RESISTIVE BARRIER

System is warranted to provide a weather resistant barrier only if installed with all joints either taped with 2 1/2" wide OX Seam Tape or overlapping panels a minimum of 3/4" and fastening with a single row of fasteners, taping all interior and exterior corners with 4" wide OX Butyl Flashing Tape and flashing all rough openings and wall penetrations with 4" OX Butyl Flashing Tape.

### COMPONENT OF 1-HOUR FIRE ASSEMBLY

See DrJ Evaluation Report 1210-01 for use in a 1-hour fire-rated wall system in accordance with the Standard Methods of Fire Tests of Building Constructions and Materials using ASTM E-119 testing procedures.

### STORAGE

Maintain packaging protection until using the product. If stored exposed without protective packaging, cover with waterproof tarpaulin. Do not store directly on the ground unprotected or in standing water. Normal care should be taken to avoid excessive moisture exposure (soaking) to unpackaged product.


**THERMOPLY® 3-IN-1 WEATHERIZATION SYSTEM PROVIDES HOMEBUILDERS  
A STRONG AND DURABLE STRUCTURAL SHEATHING WITH BUILT-IN AIR CONTROL  
AND MOISTURE PROTECTION, MORE EFFICIENTLY AND AFFORDABLY.**

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