



Structural Insulated Sheathing

SI-Strong

Structural Insulation

Innovative SI-Strong Structural Insulation combines four benefits in one product



- ▶ **Structural lateral bracing and transverse wind load resistance**
- ▶ **Best in class R-value per inch**
- ▶ **Code approved Water-Resistive Barrier**
- ▶ **Air barrier**

Build Strong Structures SI-Strong Structural Insulation is code-compliant for use in sheer walls and as a braced wall panel. Use as continuous structural insulated sheathing or in combination with standard rigid insulation like OX ISO RED CI.

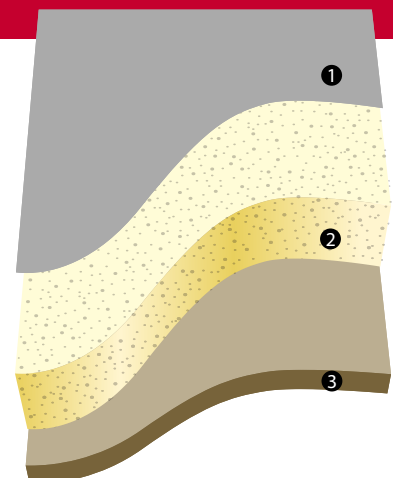
Build a Strong Environment Use SI-Strong to achieve high performance, energy efficient walls with significant R-values (R-3.0 at 0.5"; R-6.0 at 1"), contributing to reduced energy consumption. Insulate your entire wall assembly with SI-Strong which meets the IECC definition of continuous insulation. SI-Strong Structural Insulation is made from greater than 70% post-consumer recycled content.

Build a Strong Reputation Get the edge in your market by using American-made SI-Strong to help your customers save energy dollars every year.

Build a Strong Bottom Line At one third the weight of 7/16" OSB and the elimination of building wraps, SI-Strong is a great way to save time and money.

SI-Strong Structural Insulation consists of three layers:

- 1 A grey, non-reflective, resilient exterior facer provides water resistance and high durability
- 2 Closed-cell, moisture-resistant rigid polyisocyanurate foam core for high compressive strength, long-term, stable R-value and continuous air barrier
- 3 Thin, high-pressure laminated structural member



SI-Strong Specifications

BUILD STRONG

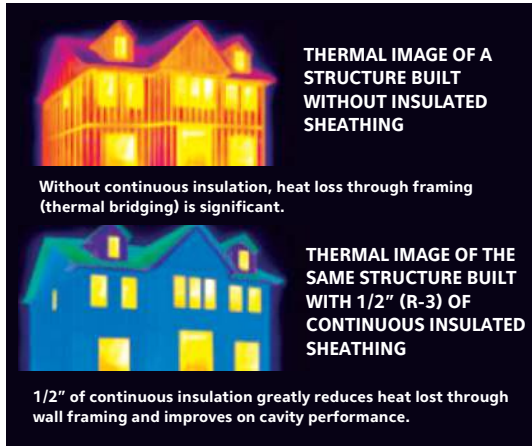
Physical Properties of SI-Strong (Foam Properties) Complies with ASTM C1289, Type 1, Class 1									
ASTM Method	D1621	C203	C209	E96	D2126(1)			E84	
	Min. Comp. Strength, psi	Flex. Strength, psi	Water Abs. %	H2O Vapor Trans., perms	Dim. Stab. % Change	Nom. Density, pcf	Serv. Temps F	Flame Spread	Smoke Dev.
SI-Strong	25	40	<0.06	<0.3	<0.4	2.0	-50 to +190	≤ 75	≤ 450

(1) -40 and 200 degrees F, ambient RH, length & width

Thermal R-Values (1)	
"R" means resistance to heat flow. The higher the R-value, the greater the insulating value.	
Thickness (nom.), in	Thermal R-Value
0.50	3.0
1.00	6.0

(1) Thermal values are determined by using ASTM C518 test method at 75 degrees mean temperature.

SIZES Width and length: 4'x8', 4'x9', 4'x10'



INSTALLATION

ORIENTATION OF PANELS

- ▶ Orient panels so that the product print faces outward
- ▶ For structural use, all panel edges/seams must be fastened and backed by framing
- ▶ For non-structural uses, all edges do not need to be backed
- ▶ Cut panels with standard circular saw

ORIENTATION OF PANELS (Combined w/ Std. foam sheathing)

- ▶ Use SI-Strong Structural Insulation in areas where bracing is required
- ▶ Supplement remaining wall with nonstructural foam sheathing such as OX ISO RED CI Polyiso Foam Sheathing

FASTENING

- ▶ Fasten SI-Strong every 3" around perimeter and 6" in the field of the board. Minimum embedment of 1" into framing. Counter sinking into foam is acceptable:
 - ▶ 7/16" to 1" crown, 16 gauge staple
 - ▶ 0.113" (min) diameter nail (roofing nail)
 - ▶ For metal studs: No. 8-18 x 1-1/4 Phillips modified truss head self-drilling screws

TAPING

- ▶ Center the tape over the joints/seams
- ▶ When taping joints, use shingle fashion technique
- ▶ Install tape per manufacturer's instructions on clean/dry surface
- ▶ Interior and exterior corners may require wider tapes to fully cover the joints/seams
- ▶ Building wrap is not required to meet WRB requirements if all joints are taped
- ▶ OX approved (or equivalents) tapes:
 - ▶ Seam tape: 3M Venture Tape (1585CW) 2 1/2" min width
 - ▶ Flashing tape: 3M 8067 All Weather Flashing Tape

For more detail refer to technical evaluation reports on our website:
www.oxengineeredproducts.com

NOTICE: Applicable laws may differ and change in each jurisdiction the product is used; Customer is responsible for determining whether the Product 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. The Claim made may not have been approved for use in all jurisdictions. Ox Engineered Products, LLC, ("Ox") assumes no obligation or liability for the information provided herein. The Product represented herein may not be available for sale and/or available in all geographies where Ox conducts business. Ox reserves the right to defend any patents or other intellectual property rights and does not infer any transferability herein. Ox assumes no obligation or liability from the information provided herein. ALL WARRANTY INFORMATION IS PROVIDED IN THE TERMS AND CONDITIONS OF THE PRODUCT ITSELF; NO EXPRESS WARRANTIES ARE PROVIDED HEREIN. All disputes, claim, or actions regarding the Product shall 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, Pennsylvania, or the Federal Circuit Court for the Middle District of Pennsylvania.