



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.

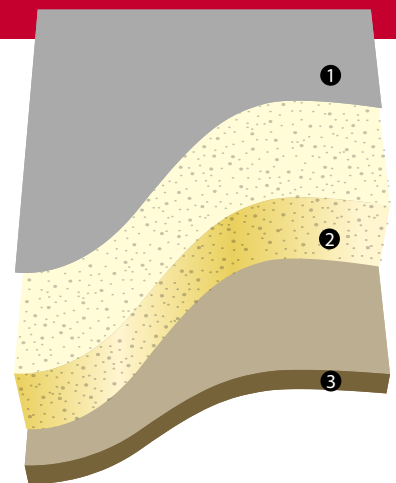
Build a Strong Environment Use SI-Strong to achieve high performance, energy efficient walls with significant R-values (R-3.0 at 0.5"; R-6.0 at 1"), contributing to reduced energy consumption. Insulate your entire wall assembly with SI-Strong which meets the IECC definition of continuous insulation. 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

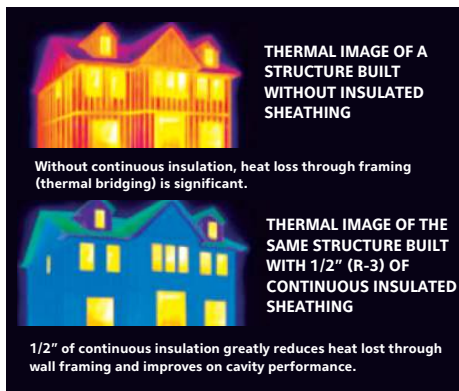
Physical Properties of SI-Strong (Foam Properties) Complies with ASTM C1289, Type 1, Class 1									
ASTM Method	D1621	C203	C209	E96	D2126(1)			E84	
	Min. Comp. Strength, psi	Flex. Strength, psi	Water Abs. %	H2O Vapor Trans., perms	Dim. Stab. % Change	Nom. Density, pcf	Serv. Temps F	Flame Spread	Smoke 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

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