



The Industry's First & Best Structural Insulated Sheathing

SI-Strong Structural Insulation



As a builder, would you sell new home that is not fully insulated?

A simple question with a simple answer, "NO".

Yet, most new homes today are missing insulation on about 25% of the walls due to uninsulated studs. Most builders do not realize the gravity of this issue as it causes multiple problems. Even if energy building codes allow uninsulated sheathing, it does not make it right. SI-Strong is an affordable way to solve this. It adds a structural thermal layer of insulation outside rim joists, wall cavities and most importantly, the wall studs.

Leading building scientists agree. "Keep the Outside Elements Out"

Continuous Wall Insulation (CI) like SI-Strong is the most important element to home insulation. It prevents thermal loss/thermal bridging, it mitigates moisture production in walls and nearly eliminates air infiltration through the sheathing

What is SI-Strong from Ox Engineered Products?

SI-Strong is an all in one structural insulation sheathing product. When SI-Strong is installed with seams taped, it is a 4 in 1 product, installed with one trip around the house.



- Structural
- Insulation
- Air Barrier
- Water-Resistive Barrier

OX SI-Strong Replaces OSB (1:1) and Building Wrap

This, while adding a layer of high-performance, closed-cell insulation, sealed on both sides by polymeric (poly) facers, all within a narrow thickness (1/2" R-3.0 or 1" R-6.0). It is a Structural Insulated Sheathing (SIS) wall solution.

SI-Strong Is Broadly Accepted and Been in Use for 12 Years

Leading national and large regional builders, across all climate zones, use SI-Strong. It is also used on many multi-family & commercial buildings. Over **125,000 homes** now have OX SI-Strong.

Bracing Strength vs OSB

SI-Strong is equivalent to the bracing strength of WSP (OSB). It meets or exceeds IRC simplified prescriptive bracing requirements, and provides robust allowable shear values for IBC engineered designs. MEETS ALL IRC & IBC 2015 BUILDINGCODES FOR SHEAR, INCLUDING MIAMI DADE COUNTY FL HURRICANE SHEAR CODES. "Stamped" certified engineer reports, are available on the OX website.

- ☒ IRC Prescriptive Equivalency to WSP (OSB)
- ☒ IBC Engineered Published Resistance Values
- ☒ Wind and High Seismic
- ☒ IRC Equivalent CS-PF Design (non-Hold Down Portal Frame)
- ☒ IRC/IBC Equivalent PFH Design (Hold Down Portal Frame)



Installation is Easier & Faster

SI-Strong reduces both time and labor costs compared to OSB with house wrap. Framing contractors value SI-Strong, due to the ease of installation, (SI-Strong weighs about 1/3 of OSB), and ease of sealing versus wrestling a 9' long roll of house wrap.

Use Current Home Plans

Both 1/2" - R-3.0 or 1" - R-6.0 SI-Strong are easily incorporated with existing home plans.

Air Sealing & Moisture Barrier

With seams taped, SI-Strong has been tested to industry's most stringent water barrier tests (WRB). With its water resistant closed cell foam, it provides a better nail seal than building wraps. When it comes to air barrier performance, SI-Strong provides a better "gasket" to framing than OSB. This provides as much as a 20% reduction in air leakage using ACH50 testing, compared to OSB with house wrap.

Mitigates Moisture Production In Wall Cavities

The continuous R-Value added by SI-Strong, mitigates thermal bridging through framing and reduces the opportunity of condensation within the wall cavities. This is due to the significant reduction of time wall cavity temperatures dip below the dew point. The US Department of Energy (DOE) and EPA state this mitigation of moisture production in walls coupled with our superior air sealing, provides a healthier home due and defends against potential mold.

Environmentally Friendly

SI-Strong is made from > 70% POST consumer recycled content, directly reducing landfill volumes. Plus, 1" SI-Strong often reduces home heating and cooling costs by 35% - 50% when used with other energy construction measures, making SI-Strong truly "green".

Last year alone, it is estimated SI-Strong saved US homeowners over \$36,459,324!*

* (This amount is based on the total estimated homes with SI-Strong with an average savings of \$284.)

SI-Strong Provides Key Homebuyer Benefits & Builder Sales Advantages

Continuous wall insulation with SI-Strong has these benefits:

Healthier Home • Greater Comfort • Lowers Energy Bills • Higher Appraisals

Current "Sealed" Engineering Reports with technical information are available at:
<http://www.drjcertification.org/stateselect/49>

Information on OX Thermo Ply (T Ply) & full line of ISO Red Insulation are available at:
<http://oxengineeredproducts.com>

