

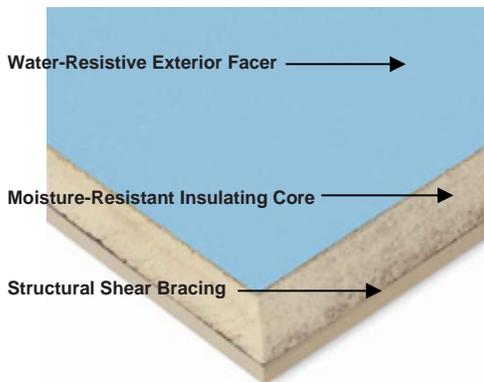


STYROFOAM SIS™ Brand Structural Insulated Sheathing

Now available across the U.S., the award-winning [STYROFOAM SIS™ Brand Structural Insulated Sheathing](#) from Dow Building Solutions makes building energy efficient homes accessible to all builders. Providing structure, water resistance and thermal insulation in a single product, STYROFOAM SIS™ Brand Structural Insulated Sheathing delivers what builders expect from wood sheathing and housewrap, plus continuous insulation. [ICC-ES](#) recently published a code report for STYROFOAM SIS, confirming that the product meets code for



structural bracing and water-resistive barrier. When used as structural bracing, STYROFOAM SIS can be installed continuously, or intermittently with another insulating sheathing. Both options meet the requirements for “continuous insulation,” a building practice that is quickly gaining favor among regulators and industry rating systems for its ability to significantly increase energy savings by addressing thermal shorts and preventing air infiltration.



Built on Science

About 40 percent of home heating and cooling costs can be attributed to air infiltration¹, and most consumers are amazed to learn that buildings can use twice as much fuel and produce twice as much greenhouse gas (GHG) emissions as cars². Wall cavity insulation alone doesn't provide sufficient thermal protection, though it's a good start. The wall studs must be insulated as well. Blanketing

the exterior walls of homes in continuous insulation helps stop conditioned air from escaping through gaps and cracks in the building structure. Another added benefit of continuous insulation is that it moves the dew point from within the wall cavity to the exterior—where it belongs—preventing condensation within the wall cavity, where mold and mildew often accumulate undetected. In third party testing, STYROFOAM SIS™ was shown to provide significant air infiltration performance in comparison to typical OSB plus housewrap installations.

Builder Benefits

Cost-Effective Entry Into Green Market—With STYROFOAM SIS, builders can improve a home's thermal performance by R-5.5 (at 1.0") or R-3.0 (at 0.5")†. And because it's cost-

Dow Building Solutions

competitive with wood sheathing and housewrap, STYROFOAM SIS™ allows builders to market and sell energy-efficient homes without having to add a third product -- insulated sheathing. The product's price stability compared to wood sheathing is superior, helping builders better manage annual costs.

Earns LEED and Energy Tax Credits— STYROFOAM SIS is up to 80 percent post-consumer recycled content by weight, and the energy savings it provides can help buildings earn credits in the [U.S. Green Building Council's Leadership in Energy and Environmental Design \(LEED\)](#) and the National Association of Home Builders' (NAHB) National Green Building Program. It is also ENERGY STAR-qualified and may help builders earn the [\\$2,000 Energy Tax Credit](#) for new energy efficient homes recently extended by the U.S. Congress.

Streamlined Construction — STYROFOAM SIS is one-third the weight of OSB*, and strong enough to do the job. In fact, it is a single product that does the job of three - reducing the number of trips around the house and saving on installation time and labor costs. STYROFOAM SIS can be fastened with staples or nails using pneumatic guns, and the pictorial instructions printed on the facer with English, Spanish and French captions make installation easy. By simply taping the seams and joints with 2 7/8" [WEATHERMATE™ Construction Tape](#), STYROFOAM SIS™ Brand Structural Insulated Sheathing meets code for a water-resistive barrier, so housewrap is not required. The new facer and installation instructions can be found [here](#).

Homeowner Benefits

Energy Savings; Year Round Comfort —STYROFOAM SIS can save homeowners [up to \\$500 per year** in energy bills](#). Compared to wood sheathing, which offers nominal R-value, STRYOFOAM SIS packs a punch (R-3.0 @ 0.5"; R-5.5 @ 1.0"). These insulating, water- and air-barrier properties help meet new energy-efficiency codes and credits, and lower homeowners' heating and cooling costs, while enhancing indoor comfort year-round.

Better Moisture Protection and Home Protection —By keeping the wall cavity warm, STYROFOAM SIS also helps protect against moisture build-up better than wood sheathing and wrap, preventing condensation within the wall cavity where mold and mildew often accumulate undetected, which can impact home values and occupant comfort.



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Sources:

1. U.S. Department of Energy: http://www.energystar.gov/index.cfm?c=new_homes_features.hm_f_reduced_air_infiltration
2. McKinsey Quarterly; http://www.pbs.org/newshour/bb/environment/jan-june05/building_4-15.html

More Information about Dow Building Solutions can be found at www.dowsis.com

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* Based on 0.5" STYROFOAM SIS™ Brand Structural insulated Sheathing

** Energy Savings depends on the heating/cooling system, geographical location, energy costs, wall assembly configuration and thickness of insulation Installed.

†R means resistance to heat flow. The higher the R-value or RSI, the greater the insulating power.