www.ENERSIP.com

The inherent airtightness of SIP construction means fewer drafts, warmer walls and ceilings and a more comfortable home. That means your home will maintain a more even temperature throughout the day and night.

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Canadian Home Builders' Association

NAHB National Association of Home Builders

Manitoba Home Builders Association

Earthen Concepts Development

Building the future today

Building your DREAM HOME just got a whole lot easier!

ENERSIP

www.ENERSIP.com

Build your Dream Home with ENERSIP panels and experience lower costs, more efficient construction and a higher quality of living!

What are SIPS?

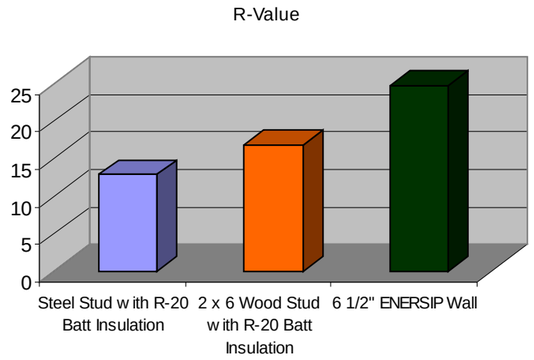
SIP's or Structural Insulated Panels are factory manufactured wall systems made by adhering Expanded Polystyrene Foam Insulation (EPS) between Oriented Strand Board (OSB) to form a structurally stronger, one-piece wall system compared to traditional stick and batt insulation structures.

SIP's have a proven history of performance since 1952 and are driving consumers to demand higher standards in construction materials.

ENERSIP's are used in new home construction and renovations for walls, floors, roofs and foundations.

Superior Savings

Efficiency is key to long term savings.



With a traditional home where stick framing and batt insulation are used gaps and spaces are typical and result in energy losses. The EPS foam core used in ENERSIP panels are solid and do not allow air movement. The absence of voids or spaces with the EPS insulation means there is no air movement or air leakage in the exterior walls and thus no potential for energy loss. ENERSIP panels, therefore, provide a high resistance to heat flow or higher R-Value.

The graph above compares R-Values for wall and room systems constructed with ENERSIP panels vs stick-frame and steel stud systems.

The higher effective R-Value translates to a reduction in heat loss and lower long-term energy costs. The figure shows the following R-Values:

Construction Type	R-Value
Steel Stud with R-20 Batt Insulation	12.8
2 x 6 Wood Stud with R-20 Batt Insulation	16.8
6 ½" ENERSIP Wall	24.7

The ENERSIP alternative has almost double the R-Value of the Steel Stud construction.

The energy savings over time can be even more significant as batt insulation sags leaving larger voids, more air leakage and an even bigger source of energy loss in many homes.

AND, if energy savings were not enough, ENERSIP panels offer savings in the time it takes to build your dream home. The simple one-piece wall system with precut electrical chases simplify the construction process.

Did you know?

"You can slash energy costs by up to 50%. Because SIPs create a tighter building envelope than conventional insulation, your builder can actually reduce the size of heating and cooling equipment. That reduces costs immediately. Better yet, SIPs keep your costs down from season to season, year after year, for as long as you own your home."

– SIP Association (Website/Jan 07)

Stronger & Straighter

Imagine the resale value of a home two to three times stronger than traditional stick and batt homes!

ENERSIP panels are constructed by adhering OSB (Oriented Strand Board) to ESP (Expanded Polystyrene) core insulation.

OSB is a wood panel specifically engineered for housing and construction. It is an extremely versatile, dependable and environmentally efficient wood penal constructed from freshly harvested trees. The trees are processed into precise strands averaging 4" long and 1" wide. On the exterior the strands are oriented length-wise and cross-aligned on the interior. The alternating layers are bonded with resins under high heat and pressure resulting in a product that is very strong and very uniform.

Some of the advantages of EPS foam core insulation are:

- Higher R-Value than cellulose or fiberglass
- Contains no HCFC's or no CFC's
- Containes no formaldehyde
- Will not rot
- Resistance to mildew
- Provides no food value to animals or rodents

The resulting one-piece ENERSIP panels provide superior strength, are easily wired and the sturdy, continuous OSB surface makes the application of interior and exterior finishes significantly easier than stick and batt constructed homes.

Quieter & Cleaner

Quieter and cleaner inside and out!

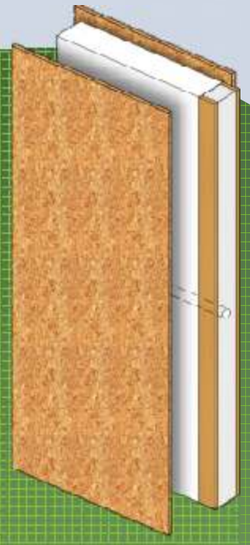
Improve the quality of living in your new home and give yourself a pat on the back for contributing to a cleaner environment.

ENERSIP panels are GREEN! Some of the environmental benefits of an ENERSIP home include:

- Fewer materials are required to build your home
- Reduced air leakage results in a more energy efficient home
- There are less pollutants emitted during construction
- OSB requires less virgin lumber
- No outgassing is produced from the foam core releasing system
- EPS foam core is recyclable

Your improved quality of living is evident from the day you move-in because the one-piece construction of ENERSIP panels acts as a barrier to help to control the penetration of allergens and dust into your home. They also reduce the amount of noise pollution allowed to enter from outside the home.

Clean, quiet, energy efficient and environmentally friendly – Building your dream home just got a whole lot easier with ENERSIP's!



"SIP buildings are vastly more energy efficient, stronger, quieter, and more draft free than other building systems, such as stud framing with fiberglass insulation. Fiberglass is sometimes used for furnace filters because air moves through so freely. Rigid insulation is used as solid component insulation in almost every industry for its inherent efficiency and lack of air movement. These attributes are built right into a SIP building. Less air leakage means fewer drafts, less noise, lower energy bills, and a much more comfortable indoor environment."

– SIP Association (Website/Jan 07)