

Building with Tomorrows Standards... Today!



TIMBER FRAME • LOG • LOG POST & BEAM

**PRE-FABRICATED
STRUCTURAL
PRE-INSULATED
READY TO ASSEMBLE
DELIVERED TO SITE**



There are various methods for enclosing Timber Frame and Log Post & Beam Structures but, none of them are as Cost Effective and Energy Efficient as using Structural Insulated Panels (SIPs).

When you pair the timeless beauty of Timber Frame and Log Post & Beam with SIP Construction, you get a Green and Sustainable Building by using products that are Renewable, provide long-term Energy Efficiency and will maintain Structural Integrity far longer than a typical stick frame building.

By their nature, Timber Frame and Log Buildings are Green, and when insulated with SIPs, you create High R-values and reduce Air Infiltration and Heat Loss which is extremely important to Sustainability. The continuous line of insulation provided by SIPs creates a tight and very Energy Efficient Building which provides Straighter and more Rigid walls.

SIP Panels are shimmed between the wood frame and wall or roof panels in order to allow the drywall to fit neatly behind the posts on the interior of the structure. Panels are easily cut to provide openings for doors and windows.

Timber Frame & Log Homes have many things in common with SIPs; All three are Pre-Fabricated. They all have a High Energy Efficiency rating and are assembled quickly, so it makes perfectly good sense to use them together and at the same time.

A log home shell typically consists of solid log walls and a post & beam log roof structure. The log roof structure provides the support for the insulated portion of the roof system to be built upon. When a log home arrives and the crew begins to assemble the logs it all happens very quickly. This is where the SIPs Advantage comes into play. SIPs also can be put into place very quickly.....it is very common for the pre-fabricated SIP roof system to be preassembled on the ground by an experienced crew while the logs are being assembled and then the large SIP roof panels are set on top of the log roof structure to complete the structural and insulated roof system. Not only do SIPs provide a quick and easy roof assembly....they also provide a very Strong and Energy Efficient Assembly that will last as long as the logs last.....a lifetime!

STRUCTURAL INSULATED PANELS • SIPS • ENERGY EFFICIENT FRAMING SOLUTIONS

SIPS

SIPs consist of an inner core of Expanded Polystyrene (EPS) which has been laminated between two sheets of Oriented Strand Board (OSB) using a structural adhesive. This engineered system provides an extremely strong building panel that does not require any additional framing for support. Large prefabricated SIP panels make the framing process much faster than any other framing method and enable a more airtight, well insulated building for high energy efficiency.



SIPs are available in a variety of thicknesses and sizes ranging from 2 to 12 inches thick and in sizes from the standard 4-by-8 to 8-by-24 feet & are used for **Wall, Roof & Floor panels**. Panels generally weigh less than 4 pounds per square foot, making them light enough to install by hand. Once the SIPs are installed, you can apply virtually any finish—stucco, stone, brick or clapboard—to polish off the exterior.

WEST ECO

WEST-ECO Panelized Building Systems offers extensive experience within the Construction Industry utilizing Structural Insulated Panels as an Alternative Framing Solution and has Experienced and Professional Staff to help you with your transition to building with Pre-Framed SIPs and Pre-Framed Panelized Building Systems.

WEST-ECO provides a Full Service Experience from Design to Supply to Assembly and offers Specialty Assembly Crews that are experienced in all construction sectors whether your project is Timber Frame, Log Post & Beam, Residential or Commercial.

A few of our services:

- ▶ Design Consultation & Drafting
- ▶ Logistics Coordination
- ▶ Onsite Training
- ▶ Crews Available
- ▶ Remote Location Specialists
- ▶ Resource Referral Network



THE ADVANTAGES

There are many reasons why a **PRE-FABRICATED** SIP Wall and Roof Systems can benefit your Timber Frame or Log Home Project...**Here are Just a Few...**

- ▶ **WALL & ROOF SYSTEMS** arrive onsite and are ready to assemble.
- ▶ **FASTER CONSTRUCTION** Entire Home arrives onsite Pre-Panelized & is Ready to Assemble
- ▶ **HIGHER R- VALUES**...Solid Core EPS provides an air tight envelope...EPS remains stable for its entire life. The colder it gets the better Expanded PolyStyrene performs.
- ▶ **WARMER IN WINTER**...Cooler in Summer
- ▶ **SUPERIOR AIR QUALITY**
- ▶ **CONSISTENT AND PREDICTABLE ENGINEERED PRODUCT**
- ▶ **FEWER TRADES TO COORDINATE**
- ▶ **LESS WASTE**.....Pre-Fabricated Components create less on-site waste, reduces handling and transportation requirements.

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