

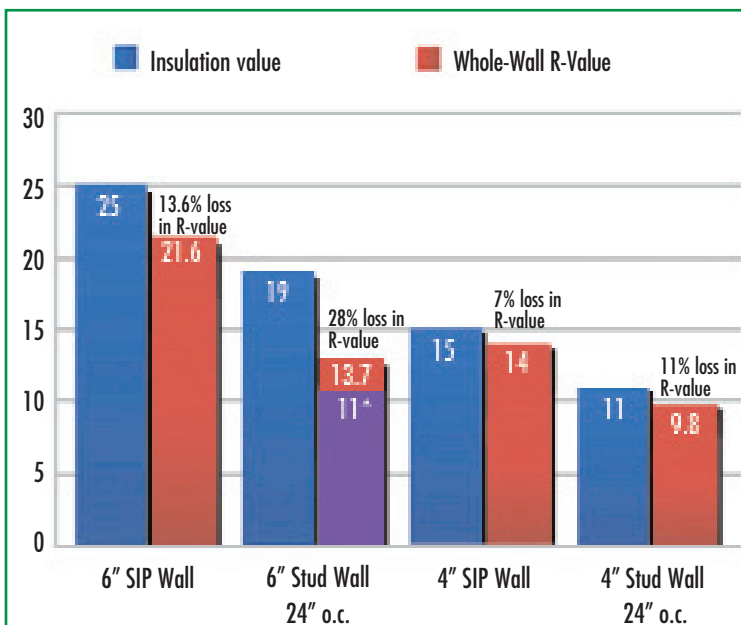
Do you want a green building that will work for you to conserve natural resources, energy and improve indoor air quality?



Extreme SIPs (Structural Insulated Panels) are produced from products that are made from recycled content to help preserve our natural resources.

- OSB (Oriented Strand Board) - the interior and exterior skins of Extreme Panel SIPs are made out of OSB panels. OSB is produced from a wide range of fast-growing species specifically harvested for OSB production. The production process for OSB is highly automated so the yield of finished product is very high. FSC (Forestry Stewardship Council) certified OSB is available by request.
- EPS Insulation Foam - The expanded polystyrene that is sandwiched between two OSB skins is manufactured using heat and steam and contains no chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs) or formaldehyde.
- Chemical & Off-gassing - There are minimal amounts of chemicals and off-gassing released into the environment from Extreme Panel SIPs. The OSB panels in our SIPs have trace amounts of naturally-occurring off-gassing found in the adhesive used to bond the OSB chips. These trace amounts are so small they are difficult to measure and consistently are below 0.1 part per million. To put this into perspective, the amount of off-gassing in the OSB used in Extreme Panel SIPs is comparable to the same level that naturally occurs in an apple or an onion.
- Strength - SIPs historically have made it through natural disasters like hurricanes, earthquakes and tornadoes where other building types have failed.
- Energy Efficiency - Save up to 60% in your heating and cooling costs.
- Extreme Panel SIPs are delivered to the jobsite pre-cut ready for assembly. The large wall and roof panels can be installed much like a puzzle. The fast installation not only saves builders time in the framing process, but the straight panels offer features that save other subcontractors more hours in their trades.

Whole-Wall R-Value Comparisons



* Study shows how typical installation imperfections such as batts with rounded shoulders, 2% cavity voids, no compression around wiring, and paper facer stapled to inside of studs, changed the whole-wall R-value of fiberglass rated at R-19 to R-11 in a 2 x 6 wall with studs spaced 24" o.c.

Source: Oak Ridge National Laboratory

Wall & Roof SIP Sizes

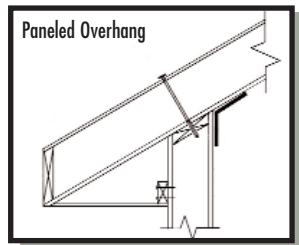
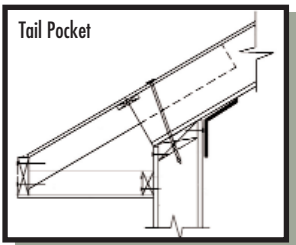
Extreme Panel SIPs Sizes 4' Wide	Extreme Panel SIPs Sizes 8' wide	Extreme Panel SIPs Thicknesses & R-value
4' x 8'	8' x 8'	4 1/2" - R-value = 16
4' x 9'	8' x 10'	6 1/2" - R-value = 24
4' x 10'	8' x 12'	8 1/4" - R-value = 32
4' x 12'	8' x 16'	10 1/4" - R-value = 40
4' x 14'	8' x 20'	12 1/4" - R-value = 48
4' x 16'	8' x 24'	
4' x 20'		
4' x 24'		

SIP Wall and Roof Systems

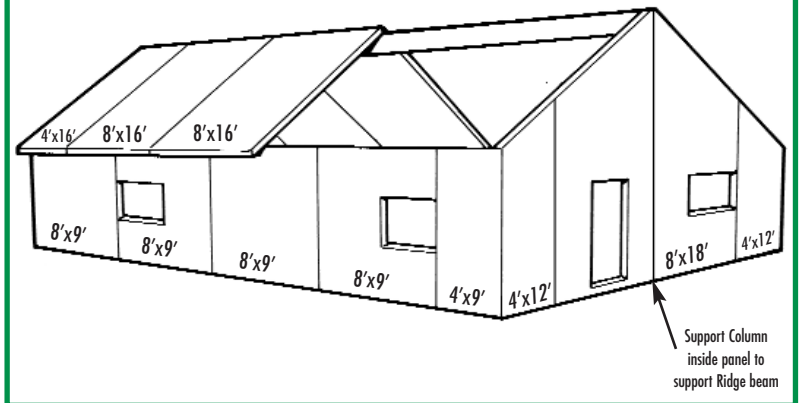
Pre-Manufactured SIPs with Versatile Panel Sizes for any Application

Ridge Beam Support

- 8", 10" and 12" thick roof SIPs for strength and high R-value
- Panels span from eave to peak
- I-joist installed in panels at 4' o.c. for longer spanning capabilities
- Engineered column inside SIP wall to support ridge beam
- Vaulted ceiling throughout if desired
- Overhangs - leave panel overhang or use tail pocket system



Glu-Lam Ridge Beam

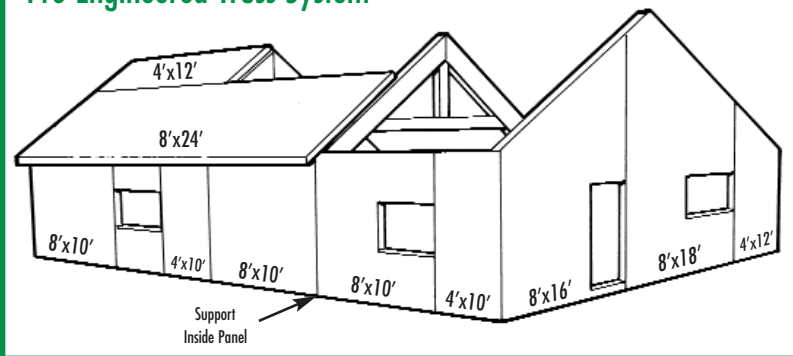


Pre-Engineered Trusses used for SIP Installation

- Can be glu-lam, steel or multi-ply trusses
- 12' o.c. clear span trusses to avoid internal bearing points
- Gable end trusses can be eliminated
- Gables precisely cut at pitch needed
- Vaulted hip roof can be achieved



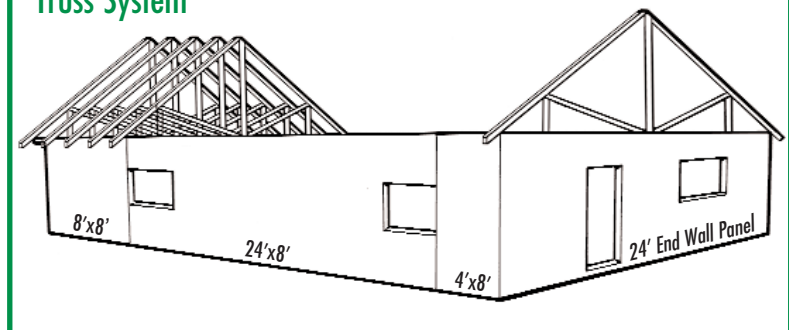
Pre-Engineered Truss System



Conventional Truss System

- 4", 6" and 8" thick wall SIPs can be used for virtually any application
- Utilize a high energy heel for maximum R-value at wall
- Conventional 2' o.c. truss roof rafter system is used if:
 - Flat ceilings are desired
 - Partial vault or tray ceilings are desired

Truss System



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SIPs Done Right!

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