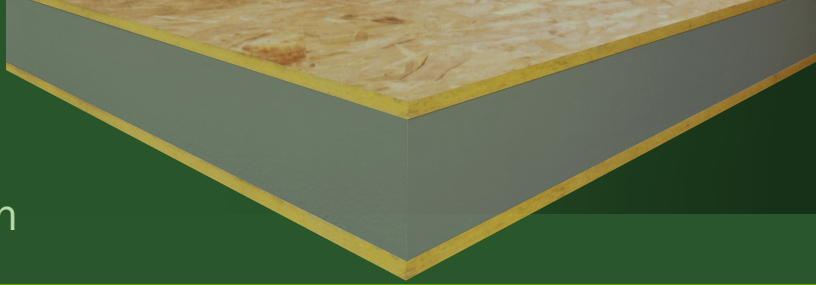




With Higher Performing GPS Insulation



HIGHER WARRANTED R-VALUES, HIGHER PERFORMING BUILDING ENVELOPES

The next generation of building enclosures has “premiered!” Premier GPS SIPS are truly the epitome of high performance building envelopes. Made with a GPS (graphite polystyrene) insulation core, Premier’s SIPS offer **41% higher (warranted) R-values** than typical code approved stick framing.

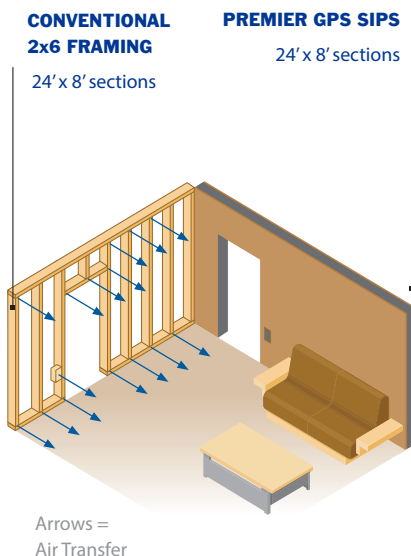


Flat Iron, CO: Originally designed with 10” Roof SIPS, using PREMIER GPS SIPS, the project was able to convert to 8” Roof SIPS. The thinner roof SIPS met all code requirements and eliminated the need for an additional two truckloads of SIPS.



Lakeside Residence, MN: Large Premier GPS SIPS feature a solid insulation core to eliminate thermal breaks, and create a structure 15 times more airtight and 40-60% more energy efficient than stick framing methods.

WALL COMPARISON



Premier GPS SIPS are
15 TIMES MORE AIRTIGHT
than stick framing methods.

Reduced air infiltration also contributes to healthier, more comfortable environments.

PREMIER GPS SIPS HELP CREATE SUPERIOR BUILDINGS

- **Higher Warranted R-values:** Premier’s Structural Insulated Panel Systems (SIPS) create strong and tight building envelopes. High performing envelopes can reduce a building’s energy emissions and consumption (heating and cooling costs) by 40 to 60%*, and increase R-values an average 41% over stick framing. Additionally, Premier GPS SIPS significantly reduce a building’s mechanical (HVAC) equipment needs.
- **Superior Insulation Values:** GPS insulated cores drives an increase in R-values (thermal resistance) even further the colder the temperature gets. In fact, GPS R-values increase significantly in colder weather.
- **Fast Installation:** Large, pre-cut structural panels assemble like a jig saw puzzle, and allow a building envelope to be erected up to 55% faster. Factory fabricated with extreme digital precision, SIPS structures require less skilled framing labor, enable businesses to open sooner, and allow homeowners to move in faster.
- **Thinner Framing:** In some climate zones a building envelope with higher GPS R-values enables a building to utilize thinner SIP roofs, walls and floors. This can reduce accessory costs (shorter fasteners, thinner connection pieces) and transportation costs tied to the shipment of SIPS from the factory to the jobsite.
- **Environmentally Responsible:** Beyond their impressive reduction in energy consumption & building emissions, GPS SIPS typically generate 30% less jobsite waste than stick-framed construction. They are recyclable and have no HBCD’s. These characteristics contribute to a healthier, more sustainable, and far superior structure. Notably, the GPS insulation is made with BASF’s Neopor which is GREENGUARD Gold Certified.
- **Code Approved:** Premier GPS SIPS easily meet building code requirements, and are the only non-cement based enclosure approved for California’s Title 24 new construction sustainability requirements.

The Epitome of High Performance

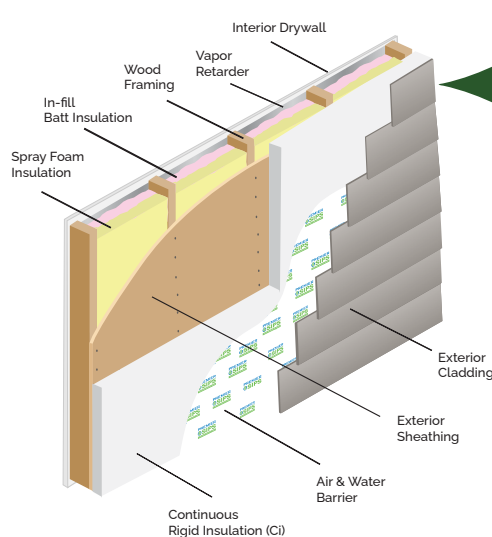
PREMIER SIPS POWER UP DESIGN, CONSTRUCTION & ENERGY EFFICIENCY

The Science Behind GPS (Graphite Polystyrene):

The next generation of rigid insulation is here - graphite polystyrene (GPS). Graphite's ability to reflect radiant heat helps create stable, thermal resistance and increase the insulation's R-values approximately 41%. With a solid GPS insulation core, enable energy efficient, more comfortable and healthier structures. When it comes to choosing a high performing building envelope, Premier SIPS with GPS frame a far superior structure - without significantly increasing construction budgets. Explore many other benefits of Premier SIPS at www.premiersips.com.

CODE APPROVED BUILDING ENVELOPE FRAMING OPTIONS

Stick-Framed (Wood) Assembly: Additional Ci Material Incorporated



9 STEPS

vs

4 STEPS

55% Faster Installation

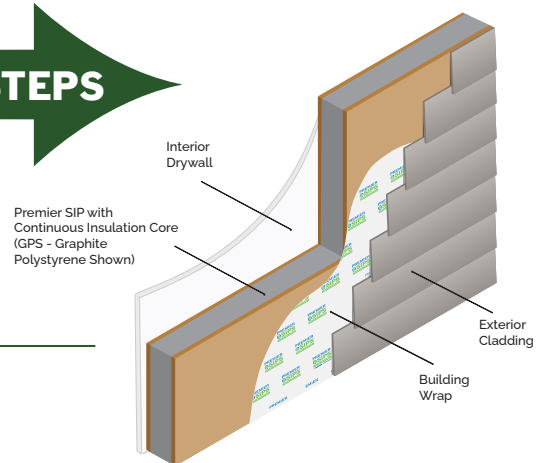
Factory Fabrication & Engineered Precision

41% Higher R-values

15 Times More Airtight

Healthier Indoor Environments

Structural Insulated Panel (SIP) Assembly Additional Ci Material NOT Required



This Assembly Is Similar for Roof & Wall Framing Applications

With 2"x 6" site framed wood assemblies crews spend days of measuring, cutting and shimming regularly bowed lumber. Followed by days installing multiple layers of insulation, vapor retarder and sheathing. These building envelope framed assemblies still experience air transfer, pollutant infiltration and compromised indoor environments (IAQ & Comfort).

Premier SIPS large solid core sections help buildings perform with exceptional air tightness or ACH (air changes per hour). Air transfer is one of the biggest contributors to a building's energy consumption, emissions, and indoor environments. Used in the field for 50+ years, with airtightness well documented, the DOE has waived blower door requirements for SIPS Construction.

BUILDING ENVELOPE ASSEMBLY R-VALUE COMPARISONS

Stick-Framed (Wood) Standard Code Approved Assembly		SIP Thickness	Premier GPS SIPS R-value @ 75°	Premier GPS SIPS R-value @ 40°	Premier GPS SIPS R-value @ 25°
		4 1/2"	18	19	20
2x6 16" oc, R-19 batt, 1" R-5 Rigid Continuous Insulation, OSB Exterior Sheathing	R-21	6 1/2"	27	29	30
		8 1/4"	36	37	39
		10 1/4"	45	47	49
		12 1/4"	54	57	59

Building code typically references insulation ratings at 75°.