The next generation of building enclosures has “premiered”! Premier GPS SIPs are truly the epitome of high performance framing. Made with Premier’s GPS (graphite polystyrene) insulation cores, Premier GPS SIPs offer 41% higher (warranted) R-values over stick framed construction.

**WALL COMPARISON**

<table>
<thead>
<tr>
<th>CONVENTIONAL (2x6 framing 16” on center) x 8”</th>
<th>Premier GPS SIP (Premier GPS Core) 24” x 8”</th>
<th>R-21</th>
<th>R-29.8</th>
</tr>
</thead>
</table>

**WHY USE 7 STEPS?**
- FRAME, THERMAL BATT INSULATION, SHEATHING, CONTINUOUS INSULATION, EXTERIOR SHEATHING, HOUSE WRAP/WRB, SIDING

**WHEN 3 WORKS?**
- SIP, HOUSE WRAP/WRB, SIDING

**PREMIER GPS STRUCTURAL INSULATED PANELS**

- Higher Warranted R-values: Premier GPS SIP systems create tight building envelopes, which reduces heating and cooling (operating) costs by up to 60%, and increase R-values an average 41% over stick framing. Additionally, Premier GPS SIPs offer greatly reduced mechanical (HVAC) equipment needs.

- Higher insulating values: Premier GPS SIPs insulated cores drives an increase in R-values even further the colder the temperature gets. In fact, Premier GPS SIPs R-values actually increase 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. SIPs structures require less skilled framing labor, enable businesses to open sooner, and allow homeowners to move in faster.

- Thinner Framing: In some conditions higher R-values allow for thinner panels, which in turn 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: SIPs typically produce 30% less jobsite waste than traditional construction and are recyclable, have no HBCD’s reducing the burden on our natural resources.

- Code Approved: Premier GPS SIPs are recognized by key code approval agencies, easily meet energy code requirements and notably are the only non-cement based enclosure approved for California’s Title 24 new construction requirements. Premier GPS cores are made with BASF’s Neopor which has earned GREENGUARD Gold Certification.
The Epitome of High Performance

PREMIER GPS SIPS POWER UP DESIGN, CONSTRUCTION & ENERGY EFFICIENCY

The Science Behind Premier GPS SIPS:

Premier’s GPS SIPS are made with graphite polystyrene (GPS) cores which increase R-values through the graphite’s ability to reflect radiant heat like a mirror. The result is a cost effective way to increase R-values by an average 30%. Ultimately Premier GPS SIPS are able to increase energy efficiency without significant cost increases.

TODAY’S BUILDING ENVELOPE FRAMING OPTIONS

Previous Option:

Conventional Framing
2’x6’ Roof & Walls

2”x 6” Advanced Framed Structure

WHY USE 7 STEPS?

After days of measuring, cutting and shimming regularly bowed lumber, and installing multiple layers of insulation, builders can achieve required energy codes with advanced framing. However, these structures still have many gaps for air transfer & pollutant infiltration.

Better Option:

PREMIER GPS SIPS

Fifteen Times More Airtight
41% Higher R-values

Premier GPS SIPS Structure

3 STEPS WORK BETTER: SIP, HOUSE WRAP/WRB, SIDING

Same impressive attributes of our EPS SIPS, but with even greater R-values - an impressive 30% better than a typical stick framed structure. More significant than R-values is air tightness or ACH (air changes per hour), SIPS are 15 times more airtight than sticks. Because of this efficiency, the DOE has waived blower door requirements for SIPS Construction.

Whole Wall Tested R-Value Comparisons

<table>
<thead>
<tr>
<th>PREVIOUS</th>
<th>PREMIER GPS SIPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick Framed Code Approved Standard Assembly</td>
<td>Premier GPS SIPS @ Different Temperatures Using GPS Cores</td>
</tr>
<tr>
<td>SIP Thickness</td>
<td>Premier GPS SIPS R-value @ 75°</td>
</tr>
<tr>
<td>4.5”</td>
<td>18</td>
</tr>
<tr>
<td>6.5”</td>
<td>28</td>
</tr>
<tr>
<td>8.25”</td>
<td>36</td>
</tr>
<tr>
<td>10.25”</td>
<td>45</td>
</tr>
<tr>
<td>12.25”</td>
<td>55</td>
</tr>
</tbody>
</table>

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