The Structural Insulated Panel Association (SIPA) is a nonprofit association representing manufacturers, suppliers, dealer/distributors, design professionals and builders committed to providing quality structural insulated panels (SIPs) for all segments of the construction industry since 1990. www.SIPs.org
WHAT IS A SIP?

S = Structural
I = Insulated
P = Panel

- Composite structural panel
- Rigid foam core of EPS, XPS or PU
- Structural facings - usually 7/16” OSB
- Structural adhesive
WHAT MAKES A SIP?

- Rigid Foam Insulation
- Structural Facings
- Structural Adhesive
- Optional Electrical Chase
Developed as “stressed-skin” panels in 1930’s

Minimize framing by using panel facers (skins) to carry loads

Foam cores introduced in 1969 forming modern structural insulated panels

OSB is the load bearing element, instead of studs. SIP bearing area equivalent to 2x10 studs @ 16” oc
Why SIPs?

1. The easiest, most energy-efficient, insulating framing system available.

2. Exceed code requirements, while delivering a more comfortable, durable building saving time, money and labor.

3. Take pride in your legacy. Build for the future with this third-party verified, flawlessly engineered, sustainable solution.

simply... A Better Way to Build
SIP INSULATION BETTER

Oak Ridge National Laboratory Studies

4.5” SIP wall outperforms 2”x 6” stud wall with R-19

6.5” SIP wall 96% better than 2”x 6” with R-19

*Study shows how typical installation imperfections such as batts with rounded shoulders, 2% cavity voids, compression around wiring, and paper facer stapled inside of studs, change 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.
SIP APPLICATIONS

- SIP walls and roof
- SIP walls with truss roof
- SIPS over timber frame
- SIPS and ICF
- Hybrid construction of any kind
SIP APPLICATIONS

Modern, sustainable designs

Evoke Quadrant Model Home, Issaquah, WA
Ellmann Residence, Grand Haven, MI
SIP APPLICATIONS

Multifamily Designs

Cooper’s Hawk Terrace Division 1
Sonora, CA

Moon Townhomes, Bothell, WA
SIP APPLICATIONS

Long roof spans
SIP APPLICATIONS

Air sealing and header free windows
SIP APPLICATIONS

Complex designs made easy
Building with SIPs: Need to Know
Free Brochure

How to with SIPs
12 Free on-line Videos Course

Designing with SIPs: Design Considerations
Free Brochure

Resources at www.SIPs.org