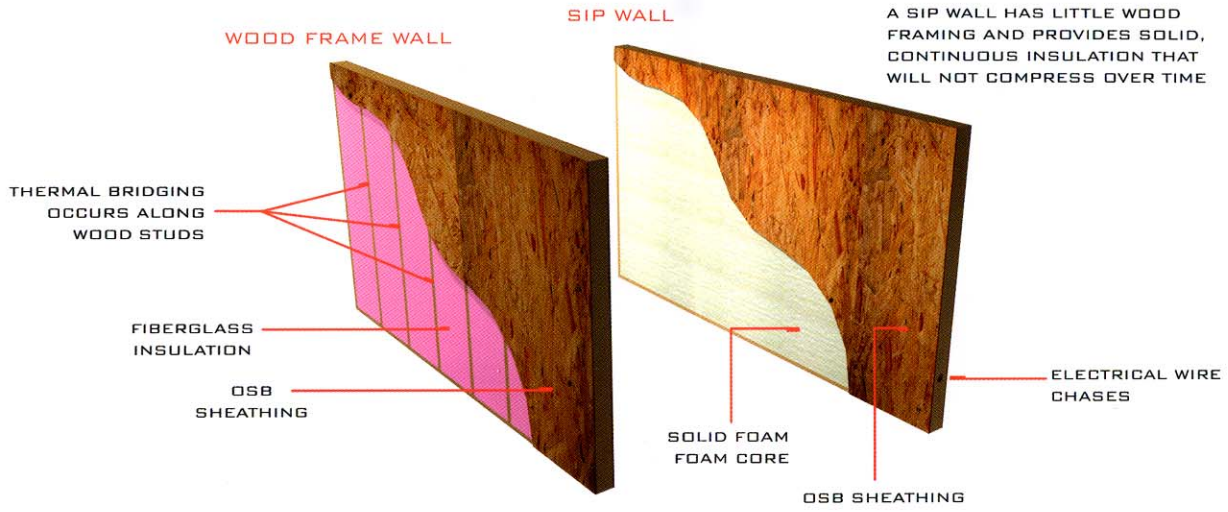
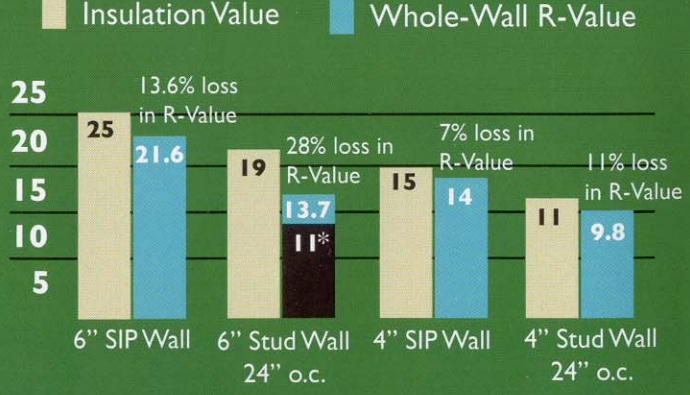
PENN LYON HOMES CORPORATION

SIP Walls are Engineered to Minimize Thermal Bridging



WHOLE -WALL R-VALUE COMPARISON



* 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, 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.

Source: Oak Ridge National Labratory

SIPs Conserve Energy

The foam insulation used in SIPs is extremely effective because it is solid and consistent throughout the home. In addition, SIPs are made in large sections, up to 8'x24', meaning there are fewer gaps and heat or cooling loss due to air infiltration.

SIP homes have repeatedly demonstrated annual energy savings of 50-60% when combined with other high performance systems. SIP test homes monitored by the Department of Energy's Oak Ridge National Laboratory had heating and cooling costs as low as 45 cents per day.

Home energy use has a sizable impact on the environment. Homes account for 15% of energy use nationwide, and release on average 22,000 lbs of CO_2 into the atmosphere annually, roughly twice as much as the average car. Building a SIP home that uses half the energy will be the same as removing one car from America's highways.

SIPA
Structural Insulated Panel Association