

# Passive Residence, Menlo Park, CA

Designed and Built by Clarum Homes



STRUCTURAL INSULATED PANELS

BY INSULFOAM A Clarum Company



The Menlo Park Passive house exceeds air tightness standards by 65%, 0.2 air changes per hour at 50 Pascal's. One of the most integral components of the passive house is an air tight building envelope.



## Project Profile: Passive Residence

A passive home is an extremely comfortable, healthy, economical, and sustainable home, designed and constructed to use up to 90% less energy than a traditional home. What's more, these efficiency gains aren't due to some constrained design approach. Passive homes are elegant, comfortable living spaces that can be designed to meet your lifestyle, aesthetic tastes, and stylistic preferences.

Coupled with the advanced SIPs wall system and SIP roof, the Menlo Passive house used many energy efficient features such as: solar hot water system, solar power system, interior air sealing, high performance doors, air and moisture barrier, and much much more.



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[www.premiersips.com](http://www.premiersips.com)



# Passive Residence Menlo Park, CA

Structural insulated Panels help to insulate a passive home and seal it to prevent outside air infiltration and heat loss. Specific to the Menlo Park home, Premier SIPs insulated the home by providing an advanced wall systems and a super insulated roof. SIPs wall reduce heating and cooling load, keep indoor temperatures constant and are stronger, straighter and far more durable than traditional stick framing. SIPs can also provide super insulation even with vaulted ceilings.

SIPs help the home stay much cooler without the need for air conditioning. Of course, the design of the home helps with shading and well-planned window orientation to keep the house at a comfortable temperature.

Due to the house being tight, a heat recovery ventilator provides constant, balanced fresh air supply.

The result is an impressive system that not only saves up to 90% of space heating costs, but also provides healthy indoor air quality.



SIPs offer speedy construction. Clarum Homes erected half of the house one day, and finished installation of the SIP walls the next.



### TIGHTER ENVELOPE

SIPS create a tighter envelope significantly reducing air infiltrations and outside pollutants, creating exceptional indoor air quality and a healthier environment

### WARRANTY

Peace of mind with a warranty. Huge advantage as traditional framing methods offer no warranty

### FAST CLOSE IN

Buildings remain affordable with faster framing time due to no need for separate on-site framing and insulation work

### The Premier SIPS Solution:

**ENERGY EFFICIENT STRUCTURES:** Structures regularly save up to 60% on heating and cooling costs, significantly preserving fossil fuels

**FAST INSTALLATION:** Large prefabricated panels are easy to install. Training of framing crews is minimal, saving thousands on labor costs and building 'dry in' time.

**HEALTHY:** Superior indoor air quality with reduced infiltration of outside pollutants, which can benefit those with respiratory ailments

**DESIGN FLEXIBILITY:** Virtually any Type V design can accommodate SIPs

**ENVIRONMENTALLY RESPONSIBLE:** SIPs produce 30% less job-site waste than traditional construction

**EASY TO OPERATE:** Tight building envelope reduces HVAC mechanical equipment sizes and related heating and cooling over the life of each building



### Project Details

**Architect:** Environmental Innovations in Design | CA

**Builder:** Clarum Homes | Palo Alto, CA

**Project Size:** 3,300 square-foot, mid-level, single-story

**Premier SIPS Used:** Walls and Roof

