

**Participant information**

Premier SIPS  
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**Category**

Multifamily

**High Performance:**

Yes

**Project information**

Coopers Hawk Terrace Division 1  
Undisclosed  
Senora, CA 95370

**Date Completed:**

May 2019

**Dimensions of building (all floors of multi-story building):**

28' x 81'-1"

**Built By (if different than applicant)**

Cooper's Hawk Development  
Tim Gavin  
18504 Canyon Road East  
Puyallup, WA 98375

**Panels Manufactured By: Company Name (members only):**

Premier Building Systems

**Designed By (if different than applicant - SIPA will only recognize members)**

Zero Energy Plans LLC  
Ted Clifton  
18504 Canyon Road East  
Puyallup, WA 98375

**Describe the end use of the building:**

Residential Duplex

**How did SIP construction help you get this job?**

Speed of construction & high performance requirements, zero-energy mandate, wildlands-urban interface code.

**SIP wall thickness and core material:**

6" EPS

**SIP roof thickness and core material:**

10" EPS

**Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy?**

SIPS provide superior insulation and air-sealing, while eliminating the need to vent the attic, which is a big deal when it comes to the Wildlands-Urban Interface Code. Construction time was also a factor, as site labor is increasingly in short supply.

**Please list any certifications the project received, such as ENERGY STAR, LEED, National Green Building Standard, WELL, Passive House, Green Globes or local green building programs. Only list certifications that are completed:**

Cooper's Hawk Terrace Designer Ted Clifton Won National Green Building Award for Concept & Research as well as the U.S. Department of Energy's Housing Innovation Award. This 18 unit complex is designed with ZEH principles at work. This project was designed to the US DOE Zero-Energy-Ready standard, which includes EPA Indoor Air Plus. They have a different (nonHERS) system in CA.

**Energy use intensity in kBtu/ft<sup>2</sup> (required only for High Performance Category and recommended for commercial projects):**

The total envelope heat loss for

**Describe the HVAC system used on the project:**

Each unit uses a Chiltrix CX34 air-to-water heat pump to supply both the heat, cooling, and domestic hot water, and an energy efficiency C.O.P. of 3.92 for heating, and 5.92 for domestic hot water.

**Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the U or R-value of any insulation materials. (judged only for High Performance Category)**

Vinyltek triple-pane windows were used, with low SHGC and a U-value of .16

**Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar (judged only for High Performance Category):**

All appliances were the lowest energy-use in their respective categories. 100% of lighting is LED. The homes were designed to receive maximum benefit from their passive design. Water heating, mentioned above, is at a Coefficient of Performance of 5.92, HSPF of 20.37.

**Were any solar panels installed on the project? If so, indicate the size of the system (judged only for High Performance Category):**

Solar panels were designed in from the beginning, but not yet installed due to issues with PG&E. With solar panels on the garages only, these units will completely power themselves and the owners cars (two cars per unit at 10,00 miles per car per year). With the entire south-facing roofs fitted with solar panels, these 18 residential units would power themselves, AND an addition 54 average existing homes in the neighborhood. PS - PG&E Get out of our way!

**Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc. (judged only for High Performance Category):**

Exteriors are all Hardi-plank, Hardi-panel, and Hardi-trim, for fire-proof exteriors. The roofs are all steel standing-seam roofing, for the same reason. The finished floors are all dyed concrete.

**Any additional comments on the project:**

<http://coopershawksonora.com> for more details about this community.