SIPA Building Excellence Application (Page 1 of 4)



PARTICIPANT INFORMATION

Company Name: Scott Homes, Inc			
Contact Name: Scott Bergford			
Address: 3016 10 th Ave NE			
City: Olympia	State: WA	Zip: 98506	
Phone: 360-357-9167			
Email: Scott@scotthomes.com	Website: www.scotthomes.com		
CATECODY ENTRY (start and start)			
CATEGORY ENTRY (check one category)	□ Commercial/Industrial/Ins	titutional Ruildings under 10 000 sq. ft	
 ☐ Single Family Homes (over 3,000 sq. ft.) ☑ Single Family Homes (under 3,000 sq ft.) 		 □ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft. □ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft. 	
☐ Multifamily ☐ Multifamily	☐ Renovations		
☐ Agricultural	☐ Affordable Housing		
	Č		
PROJECT INFORMATION			
Project Name: Purtee Project			
Address: 1021 Brood Rd			
City: Moscow	State: Idaho	Zip: 83843	
Date completed: April, 2015			
Total cost of project (exclusive of land): \$450,496.00		3	
Dimensions of building (all floors of multi-story building):			
First Floor, 50'x59', Second Floor, 40'x32'		¥ .	
Asking price/purchase price (Affordable Housing only):			
Total sq. ft. of conditioned space:			
2572 sq ft 			
BUILT BY (if different than applicant)			
Company Name:			
Contact Name:	Phone:		
Address:			

Continued

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DESIGNED BY (if different than applicant – SIPA will only recognize members)

Company Name:		
Contact Name:	Phone:	
Address:		
City:	State:	Zip:
Please answer each question with as much	detail as possible to help in the jud	dging process.
Attach additional sheets ifnecessary.		
Describe the end use of the building:		
The end result is a beautiful Swiss Chalet singl This extremely energy efficient 3 bedroom, 2 b	le family residential home with a total ath home is constructed from SIPs.	conditioned living space of 2572 sq ft.
How did SIP construction help you get this job?		
Our customers had spent years researching ar to build their last dream home. They knew the Swiss Chalet. The home was to be constructe From an average low of 20 degrees in the wint Indoor Air Quality were very important to the hoattractiveness for this type of construction. Alo SIPs allowed us to achieve a net zero standard was able to be constructed in a much quicker a summer season. The homeowners were very 30% in construction costs compared to ICF or	by wanted High Technology and extrement of in a location where extreme weather, to average highs of 85 plus in the omeowners. The fact that SIPs containing with the strength, and extremely but at a much more cost effectiveness that amount of time, and with less waste we pleased that in comparison SIPs were	me Energy Efficiency, in the style of a er differences occur each season. summer. The SIPs air tightness, and ain no VOCs was added to the nigh insulating values the panels bring, than without using SIPs. The home with a completion date just prior to the
SIP wall thickness and core material: 10.25" SIP walls = F	R40 Rigid Foam Insulation	
SIP roof thickness and core material: 12.25" SIP roof = R	149 Rigid Foam Insulation	
Describe the benefits of using SIPs on this project. Did SI	Ps help save time, labor, construction costs, o	r energy?
Using locally made SIPs saved much time, lab state from our home office and would require to wanted a Swiss Chalet look. A design using a performance with minimal oversight from the highest shell on the structure. The ease of using SIPs were below budget. SIPs were the most cost of this home. ICF and double wall construction was stated to the structure.	the use of subcontractors that were not central ridge beam with SIP roof pan nead office. Use of SIP wall and roof point this design allowed the project to effective product on the market to allowed.	ot familiar with SIPs. The homeowners tels was the easiest to achieve high panels, allowed a high performance move along faster and our labor costs ow us to achieve a Net Zero status for
Describe any innovative design elements or structural engi	ineering involved:	
The use of multiple beams in the design enhar "Super Splines" in the roof panel assembly, be insulated slab floor system, eliminates crawl sp	ecause of reduced engineered snow lo pace, environmental varmints and als	oad weight requirements. A fully
A hidden gun safe was designed and built bel	nind the library shelves.	

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

Energy Star Certified Indoor airPLUS Qualified Home

HERS Index (residential projects):

Blower door test results (ACH50) (residential projects): 1.12 ACH 50

Energy use intensity in kBtu/ft2 (commercial projects):

Describe the HVAC system used on the project:

There is one outdoor Mitsubishi Ductless Heat Pump, MXZ 4B36NA, along with two indoor units, both MSZGE18NA, all used for heating and cooling the 2572 sqft home at about a 400% efficiency. A Venmar EK 01.5 Heat Recovery Ventilation (HRV) system was also installed. The HRV recovers approximately 75% of exhausted heat from the exhaust fan. These systems work together efficiently to provide even temperatures and clean indoor air throughout the home.

Describe any other energy-saving materials used in the building envelope other than SIPs. List U-values of windows used and the R-value of any Insulation materials.

The windows used on this home are Plygem Pro Series 1" HP3MAX Triple Pane Windows: All fixed hung have a U-value of 0.20, Casement & Awning have a U-value of 0.21, Single Hung & Slider have a U-value of 0.23, and the Sliding Glass Door Has a U-Value of 0.22

The Slab is also 100% insulated to a R20 value, vertically and horizontally

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar: The homeowners chose 100% LED light fixtures throughout the entire home.

Every appliance is Energy Star rated. The only exception is the Insta-Hot, and the hot tub.

The homeowners also chose a solar thermal system for their hot water. A Rheem model RS80-48BP Sol Pak was installed. This includes a double roof panel, 80 gal solar storage tank with backup electric & pumping station, controls and insulated Piping.

The insulated slab is passive solar. The solar orientation of the window wall allows the slab to be a passive solar feature.

Suntouch heat cable Radiant floor heating was used in the bathrooms and utility rooms for comfort

Were any solar panels installed on the project? If so, indicate the size of the system:

The homeowners chose a 5.5kW Photovoltaic Array that has been placed on the southern facing part of their acre. It is mounted on a standalone SunModo Ground Mount System fixed rack. It has 20 panels, each rated for 265 WATT, 60 cell, high efficiency mono crystalline PV modules. The PV panels are manufactured by LG and the inverter is a Sonny Boy SB 5000 TL US 22, and Siemens 200A Meter/Main loadcenter.

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Please list any sustainable materials or design features not listed above, such as recycled materials, low-VOC finishes, landscaping, etc.:

The homeowner's choices of flooring were all in line with sustainable materials. Trex decking was used on the upper porch and In the hot tub room. They chose cork for easy maintenance and comfort in the kitchen. The rest of the house is in Timberlake Laminate flooring with attached pad, guaranteed for 30 years. With the anilin locking system, there was no glue needed. No VOCs. The bathrooms and utility room have marmoleum over Suntouch heat cable. The countertops are Wilsonart Laminate with the exception of the farmer's sink in the utility room that had to be set in marble.

The home sits in the middle of 20 acres of land. 19 of those acres have a Forest Stewardship plan sanctioned by the Idaho Department of Lands. The remaining one acre is around the house and shop/barn. It is fenced to encourage large animals to wander past, rather than through the yard to protect pets and establish a limit for landscaping. The goal is for low Maintenance, native landscaping with minimal water usage. Solar powered gate openers aid in keeping animals out and Pets inside the one acre area. All plants chosen for the gardens and flower beds were chosen based on the low maintenance and drought resistance qualities. See Attached for the homeowner's letter of Landscaping improvements.

Any additional comments on the project:

This homeowner was more than happy to provide stats and information about their home and the choices made.

Please see attached for:

Landscaping Improvements

Energy Efficiency and Life Style

Shop/Barn Area

Rheem Solar Hot Water System

Solar Power

PV System monthly production/purchased/use graph

HERS Index Certificate, Blower Door Test Results, Indoor airPLUS Qualified Home Certificate

AHRI Certificate of Ratings, Rheem Solaraide Water Heat specifications, Venmar HRV Specifications

Photos

CHECKLIST

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My company is a SIPA member. Panels for this project were

manufactured by a SIPA member. I have answered ALL the questions

completely

I have enclosed the two required electronic images of the completed project meeting the requirements stated in the SIPA Building Excellence

Awards guidelines

I have indicated the HERS Index as determined by a RESNET certified home energy rater (residential projects)

PLEASE CONFIRM: I have read and understand the rules for this competition. This entry is structural insulated panel construction as defined in the SIPA Building Excellence Awards guidelines. I understand by making this submission that my pictures will be used by the Structural Insulated Panel Association (SIPA) to promote the use of structural insulated panels. I hereby give permission to SIPA to use the enclosed pictures for any use they see fit in that endeavor. I understand that where possible, SIPA will give credit for pictures used to my company as listed above.

Signature:

Date: 3-3-6