

SIPA Building Excellence Application (Page 1 of 4)



PARTICIPANT INFORMATION

Company Name: HB LOWE CONSTRUCTION

Contact Name: YOUNG KIM

Address: 86 Banyawol-ro Dong-gu

City: DAEJU

State:

Zip: 41118

Phone: 82-2-1644-0699

Email: passivehousekorea@gmail.com

Website: www.hblowe.com

CATEGORY ENTRY (check one category)

☐ Single Family Homes (over 3,000 sq. ft.)

☐ Single Family Homes (under 3,000 sq ft.)

☐ Multifamily

☒ Agricultural

☐ Commercial/Industrial/Institutional Buildings under 10,000 sq. ft.

☐ Commercial/Industrial/Institutional Buildings over 10,000 sq. ft.

☐ Renovations

☐ Affordable Housing

PROJECT INFORMATION

Project Name: GEOJE BLUEFARM

Address: 300-8 Eumnae-ro Oksan-ri Geosje-myeon

City: GEOJE-SI

State: GYEONGNAM

Zip: 53284

Date completed: OCT 25, 2016

Total cost of project (exclusive of land): \$ 197.760

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

Ground floor: 50'-0" X 26'-2" Second floor: 50'-0" X 26'-2"

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:

1501 sqft

BUILT BY (if different than applicant)

Company Name:

Contact Name:

Phone:

Address:

City:

State:

Zip:

PANELS MANUFACTURED BY (members only)

Company Name:

Continued

SIPA Building Excellence Application (Page 2 of 4)



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 judging process.

Attach additional sheets if necessary.

Describe the end use of the building:

This building is located on blueberry farm. Ground floor uses for packing blueberries and temporary storage purpose. Second floor is residential area.

How did SIP construction help you get this job?

Since this region is surrounded by mountains, it is very cold in winter. Client wanted to build the agricultural building with wood material. He thought conventional wood frame house is cold inside in winter season. That's reason why he chose SIPs.

SIP wall thickness and core material: $6\frac{1}{2}$ ", neopor

SIP roof thickness and core material: $8\frac{1}{4}$ ", neopor

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

SIP construction costs more. But it saves energy more than 60% and good for our health. SIPs also saved 50% on framing labor. The tightness of the SIP building envelope prevents a polluted air from outside

Describe any innovative design elements or structural engineering involved:

piloti structure.

SIPA Building Excellence Application (Page 3 of 4)



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:

Certified by passive house institute Korea. 2.4L (A₁ class)

HERS Index (residential projects): score 24 (KOREA do not use HERS Index, but 2.4L is same as HERS Index 24)

Blower door test results (ACH50) (residential projects): 0.68 ACH50

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

Describe the HVAC system used on the project:

HEAT RECOVERY VENTILATION

Energy from exhausted stale indoor air to temper incoming fresh air.
Heat is retained during cooler season and moved during warmer seasons
This system capture about 77 percent of the energy already expended to temper incoming air.

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.

- Window frame and glass. → KÖMMERLING 88 PLUS $U_f = 0.80 \text{ W/m}^2\text{K}$ and Triple glass
- 2 inch EIFS (Exterior insulation and finish system) $U_f = 0.75 \text{ W/m}^2\text{K}$
- EVB (Exterior vertical blind) → Somfy
- Airtightness Tape (window, SIPs joint) → Proclima TESCON Vana

Please list any energy-efficient products or design features, such as lighting, hot water heating, appliances, passive solar:

- Simple and rectangular shape design for saving energy.
- LED Lighting
- High efficiency Condensing boiler

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

3kW solar panel

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SIPA Building Excellence Application (Page 4 of 4)



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

ECO - friendly flooring, wallpaper and painting

Any additional comments on the project:

CHECKLIST

- ☐ 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: _____

JAN 15, 2017

Entries that do not contain all required materials or are received after **January 16, 2017** will not be considered

Complete application and submit electronically to info@sips.org

Or send hard copy applications to SIPA office: P.O. Box 39848, Ft. Lauderdale, FL 33339

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Structural Insulated
Panel Association