

## 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: DAEGU State: \_\_\_\_\_ Zip: 41118  
Phone: 82-2-1644-0679  
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: GUMI 3 HOUSE  
Address: 3 DORYANG-DONG  
City: GUMI State: GYEONGBUK Zip: 39196  
Date completed: MAY 24, 2016  
Total cost of project (exclusive of land): \$ 181.713  
Dimensions of building (all floors of multi-story building):

1st fl: 47'-0" X 26'-0" 2nd fl: 48'-0" X 26'-0"

Asking price/purchase price (Affordable Housing only):

Total sq. ft. of conditioned space:

1466 sqft

### BUILT BY (if different than applicant)

Company Name: \_\_\_\_\_  
Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

### PANELS MANUFACTURED BY (members only)

Company Name: \_\_\_\_\_

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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 judging process.**

**Attach additional sheets if necessary.**

Describe the end use of the building:

Residential

How did SIP construction help you get this job?

Client had paid \$500 on heating bill. He was looking for well insulated house material. Finally he built house with SIPs and pay \$120 on heating bill.

SIP wall thickness and core material:

6 1/2", neopor

SIP roof thickness and core material:

8 1/4", neopor

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

This house's design is not simple. The more house design is complicated the less insulating qualities. But complex design didn't matter with SIPs.

SIPs saved on labor and energy alot.

Describe any innovative design elements or structural engineering involved:

Three different architectural material on the exterior wall  
① Ceramic siding ② Wood siding ③ Zinc

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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:

1st class by KOREA Institute of building energy technology

HERS Index (residential projects): SCORE 63 (KOREA do not have HERS Index)

Blower door test results (ACH50) (residential projects): 0.8 ACH50

Energy use intensity in kBtu/ft<sup>2</sup> (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

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 →  $U_f = 0.80 \text{ W/m}^2\text{K}$ , Triple glass.  $0.75 \text{ W/m}^2\text{K}$  temper incoming air
- 2 inch EIFS (Exterior Insulation and Finish system)
- Insulating system door → KÖMMERLING system door:  $0.88 \text{ W/m}^2\text{K}$
- Airtightness tape (window, SIPs joint) → proclima TESCON VAPA

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

- LED lighting
- High efficiency condensing boiler.

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

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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](mailto:info@sips.org)

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

### BUILDING EXCELLENCE AWARD SPONSOR



Structural Insulated  
Panel Association