

Application

PARTICIPANT INFORMATION

Company Name: Timberline Panel Company, LLC

Contact Name: Jeff Brooks

Address: 7 Pearl Street

City: Cambridge

State: New York

Zip: 12816

Phone: 518 665-8128

Email: jeffbrooks@timberlinepanels.com

Website: www.timberlinepanels.com

CATEGORY ENTRY *(check one category)*

- ☐ Single Family Homes (over 3,000 sq. ft.)
- ☒ Single Family Homes (under 3,000 sq ft.)
- ☐ Multifamily
- ☐ Agricultural
- ☐ Institutional / Industrial / Commercial
- ☐ Renovations
- ☐ Affordable Housing

PROJECT INFORMATION

Project Name: Hudson Passive Project

Address: 349 Millbrook Lane

City: Claverack

State: New York

Zip: 12513

Date completed: 10/21/11

Total cost of project (exclusive of land): 500K

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

1650 square feet

Asking price/purchase price (Affordable Housing only):

BUILT BY *(if different than applicant)*

Company Name: Bill Stratton Building Company

Contact Name: Bill Stratton

Address: PO Box 249

City: East Chatham

State: New York

Zip: 12060

PANELS MANUFACTURED BY *(members only)*

Company Name: Timberline Panel Company, LLC

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

Company Name: Dennis Wedlick Architect LLC

Contact Name: Dennis Wedlick

Address: 85 Worth Street, 4th Floor

City: New York

State: New York

Zip: 10013

**Please answer each question with as much detail as possible.
Attach additional pages if necessary.**

Describe the end use of the building:

Single Family Residence

How did SIP construction help you get this job?

Dennis Wedlick was looking for a pre-fabricated, modular type construction to meet the aggressive Passive House standards. SIPs were the perfect solution - pre-fab, superior R values, limited thermal bridging & incredible air tightness

Continued

Please answer each question with as much detail as possible to help in the judging process

SIP wall thickness and core material: 12.25" EPS

SIP roof thickness and core material: 12.25" NEOPOR by BASF

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

SIPs provided a cost effective solution to quickly enclose the home saving time & labor costs. SIP construction resulted in outstanding blower door numbers and overall energy efficiency. Timberline's 8'x24' jumbo panels limited the number of joints.

Describe any innovative design elements or structural engineering involved:

SIPs are supported by soaring glulam arches that allow for for surface splines to be used throughout. This allowed for the elimination of virtually all thermal bridging

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:

5+ star Energy Star rating / Certified by PHIUS as the 1st Passive house in New York

HERS Index (residential projects): 52

Blower door test results (ACH50) (residential projects): -149

Describe the HVAC system used on the project:

High efficiency Zehnder ComfoAir HRV, (2) Mitsubishi MR Slim Heat pumps (SEER 23 & 26), (3) Cadet electric baseboard heaters

Please list any energy-efficient products or design features other than SIPs:

HVAC / plumbing were designed with limited runs to minimize heat loss / increase efficiency with a centralized core system. The 23 foot tall window wall comprised of Serious 725 series windows allow for maximum solar gain in the winter while providing sufficient R-value to retain the heat. Gable overhang above the window wall was specifically designed for the site to provide shading during summer. Integrated sun shades assist in extreme heat. Operable skylights provide heat venting.

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

The tile is all recycled glass, all paints / finished were low VOC, all materials were purchased locally to lower carbon footprint of construction, Landscaping mulch from site cleared cedar.

Any additional comments on the project:

The most critical part of the home's efficiency & performance is the architecture ... simple yet effective box design minimizes joints & allows for efficient heating & cooling. Super insulated walls, roof & slab (R-60 slab) create a huge thermal mass that maintains the house at a comfortable temperature using minimal energy. None of the structure of the building touches the outside. Site selection & placement of the structure was critical in achieving as well as limiting solar gain.

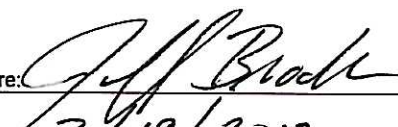
CHECKLIST

- ☒ 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:


3/19/2012

Entries that do not contain all required materials or are received after March 22, 2012 will not be considered

Complete application and submit electronically to cschwind@gmail.com

Or send hard copy applications to SIPA office:

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