



The Nest Villas

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Participant information
Innova Eco Building System, LLC.
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Category
Commercial/Industrial/Institutional over 10,000 sq.ft

High Performance: No

Project information
The Nest Villas
Mamora Bay, Saint Pauls
Antigua, British Virgin Islands

Date Completed: November 2018 (Phase 1)

Total cost of project (exclusive of land): \$2,000,000.00

Dimensions of building (all floors of multi-story building):
36 units 601 Sq.Ft. each, with 1 bedroom/ 1 bathroom.

Total sq. ft. of conditioned space: Total 21,636 sq. ft.
Each Unit 601 sq. ft.

Built By (if different than applicant)
Elite Island Resorts
Darin Barrett
1065 SW 30th Ave
Deerfield Beach, FL 33442

Panels Manufactured By
Company Name (members only): Innova Eco Building System, LLC.



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Designed By (if different than applicant - SIPA will only recognize members)
Innova Eco Building System, LLC.
3300 NW 110th St.
Miami, FL 33167

Total sq. ft. of conditioned space: Total 21,636 sq. ft.
Each Unit 601 sq. ft.

Describe the end use of the building: The project consists of 36 seaside bungalow style rooms in an All Inclusive Luxury Beach Resort, with individual pools and private beach walkway for each unit. These units have high end finishes to provide 5 star comfort to the customers. The location of the project provides the guests with a very relaxing scenic view while feeling safe inside a Hurricane Resistant rated house, meeting the local seismic requirements.

How did SIP construction help you get this job? The High Impact Panels manufactured for these bungalows are Hurricane resistant, designed and approved for wind loads of 200 MPH, turning their strength into the most relevant characteristic, due to the risk conditions presented by the location of the resort.

Labor resources on the island are limited and with last year's hurricane and severe hurricane damage to sister island Barbuda, labor resources are more challenging than ever. The use of precut building kits, reduced skilled labor and allowed a high end project to be delivered with a limited skilled labor market.

SIP wall thickness and core material: 4" Interior Wall Panels: 8mm MgO skins, 3 5/8" EPS Foam
6" High Impact Exterior Walls: 12mm MgO skins, 5 5/8" EPS Foam
SIP roof thickness and core material: 8" OSB/MgO roof panels: 14mm MgO skins, 7 5/8" EPS Foam

Describe the benefits of using SIPs on this project. Did SIPs help save time, labor, construction costs, or energy? As Innova Panels are extremely energy efficient, they reduce the power consumption of the property, for heating and cooling, have no VOC emissions and have a very low carbon footprint as a green building material. These panels are a lightweight, pre-cut product, so the builder was able to use a small semiskilled crew to install the 36 units, reducing the costs of labor and time of construction, while maintaining 5 star quality work.

Describe any innovative design elements or structural engineering involved: This product demonstrates one of the main benefits of structural insulated panels. The panels were pre-cut in a manufacturing facility in Miami, FL, and exported to Antigua where they were able to be installed by local labor forces.

Innova Panels provided high levels of insulation to the bungalows with R-Values of 38 for exterior walls and 50 for roof panels. The state of art technology used by Innova to manufacture the panels, coupled with their excellent airtight performance and the strong eco-credentials of MgO SIP construction, make each house a highly sustainable and fortified building.

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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: Innova Panels are certified Green Building material, energy efficient, and once the panels are installed, qualify for LEED Certification. All raw materials used in the manufacturing of the building kits were certified green low-VOG building materials

Describe the HVAC system used on the project: Each bungalow has a mini-split air system

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) n/a

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

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

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): All of the interior walls, exterior walls, floor system and roof panel system are manufactured with MgO SIPs by Innova Eco Building System.

Pool view

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Aerial view

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Exterior side view

The Nest Villas



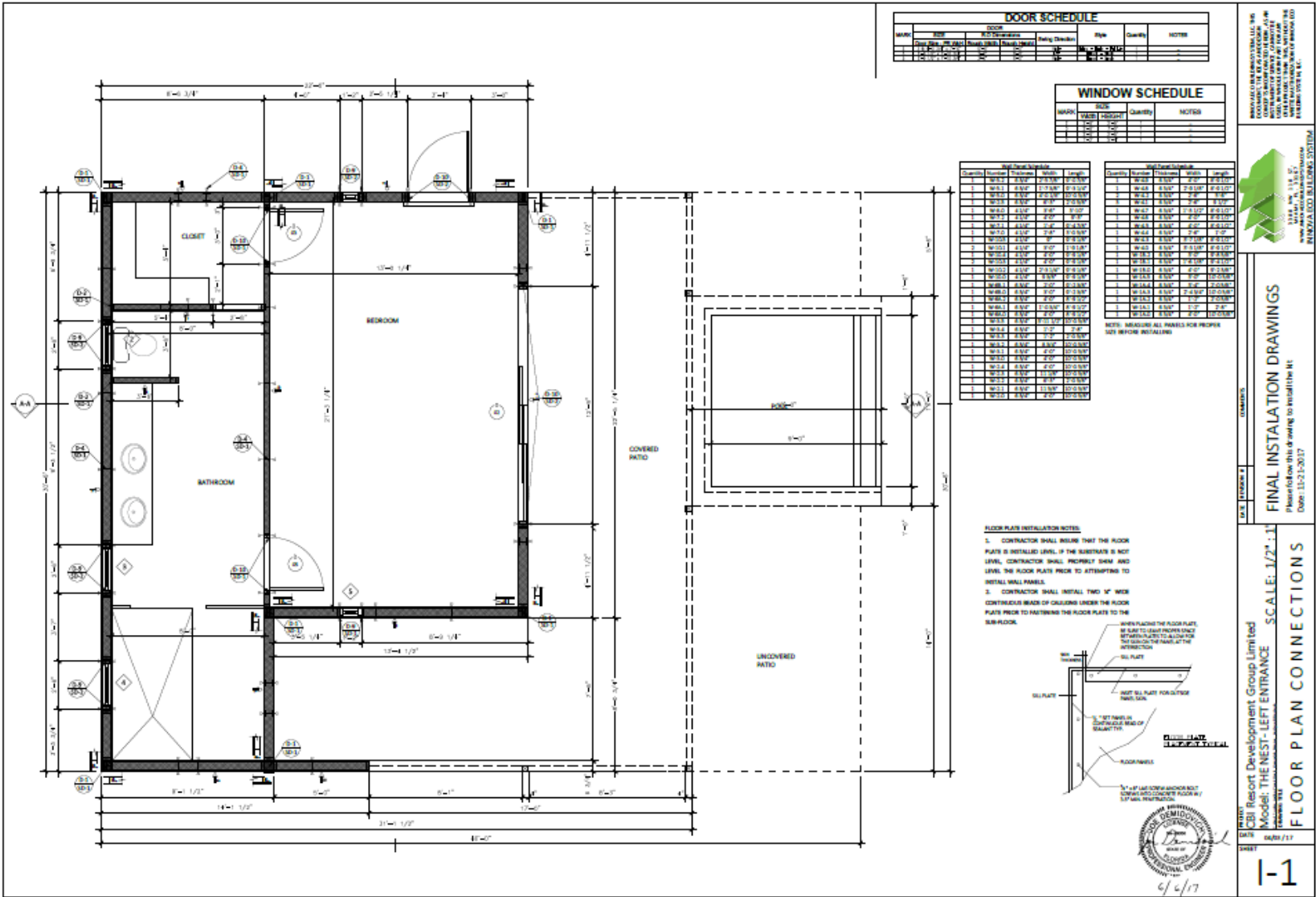
Interior bedroom

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Floor plan (Bungalow)

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Interior bath

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