

# Building Excellence Awards

## Desert Comfort Project - Mark Laliberte Residence

Project Name:	Desert Comfort Project - Mark Laliberte Residence
Category:	Single Family Homes over 3,000 sq. ft.
High Performance:	No
Manufacturer:	
Submitted By:	Terry Dieken

### Project

11444 E Blue Wash Rd  
Cave Creek, AZ 85331  
United States

### Builder

AFT Construction  
Brad Leavitt  
15270 N 83rd PI #200  
Scottsdale, AZ 85260  
United States  
Phone: 480-553-7873

## Design Professional

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Cosan Studios  
Brad Leavitt  
4300 N Miller Rd, Suite 123  
Scottsdale, AZ 85251  
United States  
Phone: 480-940-4410

### Building End Use:

The building will serve as an eco-conscious and ultra-efficient residential property.

### Describe the end use of the building:

This home was actually designed with the intention of building with SIPs. The homeowner had experience with SIPs in the past and appreciates the importance of sustainable, high-performance building.

### SIP wall thickness and core material:

### SIP roof thickness and core material:

12 1/4"

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

The roof panels needed for this project were significantly large and Extreme Panel Technologies provided 8x24ft panels that fit perfectly. They were craned into place on top of the superstructure and served as a monolithic layer of insulation for the entire building envelope. SIPs were the ideal solution for this home and saved the homeowner time and money while keeping them from having to compromise on the overall design.

**Describe any innovative design elements or structural engineering involved:**

Structural engineering was key as every detail was specified with a maximum efficiency mindset. The roof of the structure was designed as a modern flat roof and includes large overhangs to help achieve additional savings on utilities by creating a uniform thermal envelope.

## Certifications & Specifications

**Certifications:****HERS Index:****Blower door test results (ACH50):****Energy use intensity in kBtu/ft2:****Describe the HVAC system used on the project:**

A Mitsubishi 8-pump VRF system is being used to temperature control the home. A 3.5-ton system was recommended for a home of this size, but due to the airtight quality of the SIPs, the builder was able to use a system half the size.

**Other Energy-saving Materials:****Energy-efficient products or design features:****Solar panels installed:****Sustainable materials or design features:****Additional comments:****Builder, homeowner, occupant testimonial:**

## Files & Photos





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