

# Homeway Homes: Solar Decathlon Gable House

Installer: **Royce Schieler**

Location: **Champaign, Illinois**

Type of Job: **cavity wall, ceiling, floor**

Square Footage of Job: **600**

Equipment Used: **Graco E30**

Number of people needed for the Job: **one**

Number of days required by the Job: **two**

Special Requirements: **none**

Foam and coatings used: **NCFI / Insulstar**



**Project Description:** Homeway Homes is a modular home manufacturer located in Deer Creek, Illinois. Homeway has been a maverick in the modular industry by focusing its building practices around energy efficiency. Homeway uses closed cell spray foam in the walls and ceilings of 100% the structures it builds because of its superior insulation and structural qualities. The company realized that spray foam has unique benefits to modular construction in regard to providing a virtually stress-crack free building which is an inherent challenge for modular homes when considering the rigors of transporting modular units hundreds of miles to the customers building site. Closed cell spray foam also is the best insulation on the market today because it completely eliminates the forces of air infiltration, air intrusion, convection, moisture and other forces that regular insulation cannot.

The University of Illinois partnered with Homeway Homes to build their "Gable House" for the Solar Decathlon competition. The Solar Decathlon is an international competition of universities that design, build solar powered homes. During the summer of 2009 the Gable House was built in the Homeway Homes facility. The home had 9.5" of spray foam in the walls and floor and 12" in the ceiling. Because of the high R Values and the ability of spray foam to eliminate air infiltration, the University believed it was more economical to build with super insulation rather than purchase expensive solar panels. In short, it was better to conserve energy than to produce it. In October of 2009 the Gable House was transported to Washington DC and was on display for two weeks on the National Mall. Illinois placed second in the competition with Team Germany placing first. The Solar Decathlon project was a huge success for Homeway Homes and its Energy Strength Spray Foam Insulation product. The Gable House is now on display at the University of Illinois campus in Champaign, Illinois.

**Benefits of using Foam:** High R Value, Eliminates air infiltration, Provides twice the strength to a wall or ceiling as compared to regular insulation, It is waterproof, It is mold resistant, It is an approved flood resistant material



**2009 SPFA Industry Excellence Awards**

**Category: Residential Wall Foam**

