



Sundays 8/7c on ABC

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Contact: Renee Lane, C&S Companies

Phone: (315) 350-7322, (315) 350-7353

Email: media@mahoneygives.com

“Extreme Makeover: Home Edition” build in Geneva to aim for LEED Gold for Residential.

The new Hill family home being constructed as part of “Extreme Makeover: Home Edition” in Geneva, New York, will be the second home ever on the show to go for LEED certification. LEED, which stands for Leadership in Energy and Environmental Design, is a rating system developed by the US Green Building Council that measures sustainable elements of a building. LEED has been around for many years for commercial construction projects, but is relatively new for residential construction projects. The rating system has four categories of certification: Certified, Silver, Gold, and Platinum. The goal for this project is Gold certification.

Some of the sustainable aspects of this project include:

- Recycling of construction debris from the site. Upwards of 80% of materials removed from the site during construction will be reused after being sorted at a local transfer station. Wood will be reused as chips for landscaping. Metal from piping will be recycled as scrap metal.
- Rainwater that falls on the house and gymnasium roofs will be collected in a cistern and reused for watering the landscaping.
- Solar panels on the roof of the new gymnasium should produce enough electricity to power the equipment and systems in the gym.
- The home will be an EnergySTAR house. It is estimated that the house will use up to 55% less energy than a normal home.



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- The home has a heat recovery ventilator to remove stale air from and provide fresh air to the home per ASHRAE Standard 62.
- The home has a Daikin VRV (variable refrigerant volume) system, which is as efficient as a geothermal heat pump system but with better temperature and dehumidification control capability.
- All garbage generated during the build is being recycled on site, with separate containers for recyclables.
- Stormwater and erosion control plans were developed for the site to reduce runoff of contaminants and sediment from the site.
- The original aboveground pool at the house was dismantled and the deck structure was donated to another family. Metal from the pool structure was recycled.
- The landscaper eliminated the need for an irrigation system and did not use any invasive species of plants.
- Rapidly renewable flooring materials were installed, including cork and bamboo flooring.
- The home will use a Noritz instantaneous water heater which has an energy factor of 0.82.
- Some of the copper piping from the original house was made into a sculpture for the house by local sculptor Sam Castner of Ironvine Studios on Keuka Lake.
- Contractors on the project attended a four-hour training session on green construction sponsored by Onondaga Community College presented by C&S and Kevin Stack, a builder and ecoliteracy educator who constructed the first LEED certified house in New York state.

The idea for integrating sustainable elements into the project came from the team of Ellis Guiles, P.E., HERS (Home Energy Rating System) rater and director of sales and marketing for TAG Mechanical; C&S Companies; and Kevin Stack. Along with the builder, the team brainstormed ways to incorporate green aspects into the home and achieve LEED certification.



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For more information on the "Extreme Makeover: Home Edition" project, and how you can help, please visit www.mahoneygives.com.

"Extreme Makeover: Home Edition," which has won back-to-back Emmy Awards as the Best Reality Program (non-competitive), is entering its 6th season on ABC. The program is produced by Endemol USA, a division of Endemol Holding. Anthony Dominici is the executive producer; and David Goldberg is the president of Endemol USA.

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