BUILDING TECHNOLOGIES PROGRAM



Builders Challenge

Recognizing Energy Leadership in Homebuilding

High Performance Builder Spotlight Palm Harbor Homes

2010 International Builders' Show

Founded in 1977, Palm Harbor Homes (Corporate) is based in Addison, Texas, and is one of the nation's largest marketers of factory-built homes, with nine controlled manufacturing facilities. Palm Harbor Homes has worked with Department of Energy (DOE) Building America Industrialized Housing Partnership (BAIHP) team for over 20 years in providing Energy Efficient and Sustainable homes.

HOT-DRY & MIXED DRY CLIMATES

BUILDER PROFILE

Builder: Palm Harbor Homes (Tempe, AZ is the factory that manufactured the show-cased home)

Founded: 1977 (1978)

Employees: 2900

Square Footage: 500 sq. ft and up

Price Range: \$45,000 and up



Highlander Statistics

2,259 square feet, 3 bedroom, 2.5 bath

Energy-Efficient and High Performance Features

- Energy Efficient & High Performance Features
- ENERGY STAR® Low E Windows (U=0.29, SHGC=0.29)
- R=19 walls, R=21 floors, R=38 ceilings
- · Quiet, efficient chiller with multiple air handler zones for optimized comfort
- · Duct system performance tested
- ENERGY STAR® appliances
- Tankless water heater with solar hot water "ready" system
- Extensive use of compact fluorescent lighting
- Expected to meet Builders' Challenge Standards with an Energy SmartHome ScaleSM (E-Scale) = 67

Indoor Air Quality & Noise Reduction Features

- VOC source control including zero VOC paint
- Phenol & formaldehyde free insulation
- · Outside air ventilation
- Duct system sealed with mastic & fiberglass mesh
- · Air filtration and cleaning system
- · Central vacuum system

Other Green Building Features and Certifications

- Class 1 (A) fire rated siding
- · Earth-friendly pest control with mold preventative
- Resource efficient modular construction & construction waste management
- Expected to meet Bronze level in all sections except lot design, preparation and development per the NAHB National Green Home Building program
- California Title 24 compliant
- Builder is Building America Partner and Builders Challenge Participant

Showcasing High Performance Construction at International Builders' Show

Building America Industrial Housing Partnership (BAIHP) partner Palm Harbor Homes teamed up with a multitude of product sponsors to manufacture show homes that have been displayed at the International Builders Show (IBS) for 6 straight years.

Palm Harbor's systems built homes are built for the highest efficiency in design, energy consumption and precision construction to save money and to save the planet. Building homes in environmentally-controlled building centers produces 40% less construction waste than traditional site built methods and homes that consume up to 33% less energy every month than those built to the standard energy code. Palm Harbor Homes has won numerous awards and was the EPA's 2007 ENERGY STAR® Partner of the Year.

Palm Harbor Homes built the first EnergySmart Home ScaleSM E-Scale label qualified home the DOE unveiled at the IBS 2008. Every home built by Palm Harbor Homes can be NAHB Green and ENERGY STAR[®] "ready," which means if the site pre-requisites are met the home can qualify for NAHB's Green Standard. The NAHB Research Center and PHH are Builders Challenge Partners.

Based on this existing partnership, new single-family homes that are certified Silver, Gold, or Emerald to the Standard can be concurrently certified to the U.S. Department of Energy's (DOE's) Builders Challenge.



The Tularosa - 2009 IBS Show Village Home built by Palm Harbor Homes Tempe

Contact Information

Building America Program

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Build America Industrialized Housing Partnership (BAIHP)

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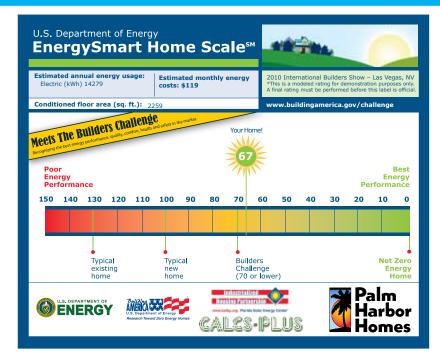
Palm Harbor Homes

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U.S. Department of Energy Builders Challenge



To learn more about the Builders Challenge and find tools to help market your homes, visit www.buildingamerica.gov/challenge.



Energy Efficiency & Renewable Energy

EERE Information Center 1-877-EERE-INF (1-877-337-3463) www.eere.energy.gov/informationcenter

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For information on **Building America** visit **www.buildingamerica.gov**. The website contains expanded case studies, technical reports, and best practices guides.