



Builders Challenge

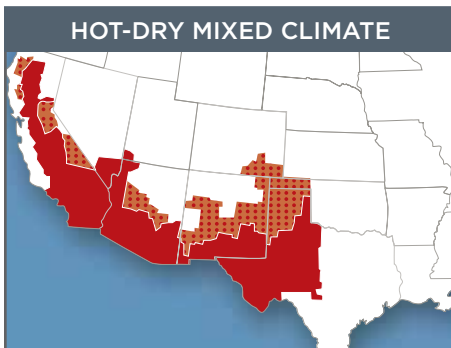
Recognizing Energy Leadership in Homebuilding

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.



BUILDER PROFILE

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

Founded: 1977 (1978)

Employees: 2900

Square Footage: 500 sq. ft and up

Price Range: \$45,000 and up



La Linda Home Statistics

2,140 square feet, 3 bedroom, 2 bath

Energy-Efficient and High Performance Features

- Energy Efficiency & High Performance Features
- ENERGY STAR®, Low E windows (U=0.29, SHGC=0.29)
- R=19 walls, R=21 floors, R=38 ceilings
- 15 SEER /8.5 HSPF packaged heat pump
- Duct system performance tested
- ENERGY STAR® appliances
- Tankless water heater
- Extensive use of compact fluorescent lighting
- Z-wave (wireless) technology for remote, energy & access home management
- Expected to meet Builders' Challenge Standards with an EnergySmart Home ScaleSM (E-Scale) = 66

Indoor Air Quality & Noise Reduction Features

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

Other Green Building Features and Certifications

- Low flow faucets & showerheads
- Class 1 (A) fire rated siding
- Resource efficient modular construction & construction waste management
- Expected to meet Bronze level in all sections except lot design, preparation and development per the new NAHB National Green Home Building program
- Non-HCFC refrigerant HVAC system
- 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 (PHH) teamed up with a multitude of product sponsors to manufacture show homes that have been displayed at the International Builders' Show (IBS) for six 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 that the Department of Energy 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/Guidelines. The NAHB Research Center and Palm Harbor Homes 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

George S. James • New Construction •
202-586-9472 • fax: 202-586-8134 • e-mail:
George.James@ee.doe.gov

Building America Industrialized Housing Partnership (BAIHP)

Subrato Chandra • Florida Solar Energy
Center • 1679 Clearlake Road • Cocoa, FL
32922 • 321-638-1412 • fax: 321-638-1439 •
e-mail: subrato@fsec.ucf.edu •
www.baih.org • IHP provided technical and
on-site support

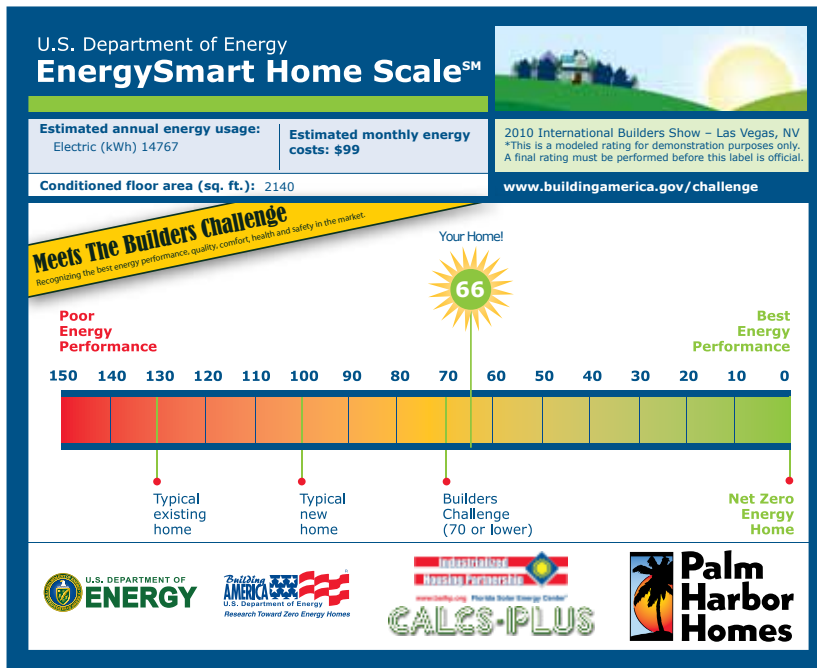
Palm Harbor Homes

Rick Boles • 309 S. Perry Lane • Tempe, AZ
85281 • 800-467-7877 • fax: 480-829-7091
• e-mail: rboles@palmharbor.com •
www.palmharbor.com

Calcs-Plus

Dennis Stroer • 121 Triple Diamond Blvd #16
• North Venice, FL 34275 • 941-488-1700 •
fax: 941-488 -3834 • e-mail: dennis@calcs-
plus.com • www.calcs-plus.com/

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.

U.S. DEPARTMENT OF
ENERGY
Energy Efficiency &
Renewable Energy

EERE Information Center
1-877-EERE-INF (1-877-337-3463)
www.eere.energy.gov/informationcenter
FSEC-BAIHP-20 January 2010

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