Budget vs Performance

Making the case for better performance through Habitat Strong
We share knowledge, innovations and best practices in order to reduce risk, improve construction quality and lower production costs.

Supporting affiliate construction teams across the U.S. with guidance and resources to **build more, build better, and build safely.**
Why build better?

Code changes
our homes are not obsolete in 10 years

Long-team affordability
protection from energy price volatility, reduced
repair & relocation costs post-disaster

Our homeowners
a home is a strong foundation on which the families
who partner with Habitat can grow and thrive.
The Challenge: *a changing climate*

**Increasing severe weather events**
- hurricanes, wildfires, inundating rains

**Shifts in everyday conditions**
- longer cooling seasons, increasing humidity, migrating pests

**Community resilience**
- part of the larger preparedness strategy, low-income neighborhoods at greater risk

*We build strength, stability and self-reliance through shelter.*
Five Habitat For Humanity houses (center) stood firm during Hurricane Michael, even as the surrounding neighborhood saw heavy damage.
Habitat Strong:
Building efficient, resilient housing for a changing climate
Promoting climate-resilient construction: building homes responsive to both increasing hazards and changing norms.
Climate-resilient homes are durable and energy-efficient, recognizing that both impact how the house endures safely and affordably in its environment.
This affordable house, built under the "Habitat Strong" program, is one of six that survived Hurricane Michael unscathed. Surrounding older homes show severe roof damage.
“The protection these standards offer our homebuyer is worth the cost.”

Christine Panagopoulos, Senior Director of Construction, Trinity Habitat for Humanity (Fort Worth, TX)
The impact-resistant windows accounted for $3,500 of the $5,100 increase in construction cost.

Habitat for Humanity Bay-Waveland Area
(Bay St. Louis, Mississippi)
Habitat for Humanity®

US Construction

Habitat Strong  Impactful results

This designates that the residence located at
416 18th St SW
Hickory, NC
habitatcatawbavalley.org
Project: Northstone Bungalow

Habitat for Humanity of Catawba Valley

1,232 ft²  3 bedroom, 2 bath, 1 floor
4A mixed-humid climate, affordable

HERS 46

$65  Average Monthly Energy Bill
$700  Annual Savings
$29,000  Saved in the First 30 Years

Includes fuel escalation rate, 2013 EIA Energy Outlook
• 2X6 frame wall with a structural insulated panel curtain wall and a vented attic over an air sealed oriented stand board ceiling. (half of the added cost)

• Single-head, wall mounted, ductless, mini-split heat pump and HRV ($2,600 savings)

• 22.3% lower source energy consumption than the ENERGY STAR V3 home.

• Triple Pane Windows were very low cost, partly because the manufacturer provided a significate discount to Habitat. ($9,353 cost, Habitat discount $2,572)

• Other significant upgrade costs were for the ventilation system, floor insulation, ceiling insulation, and doors.

Overall costs per unit were about $26,000 higher for Passive House construction than for the same home built to the minimum specifications of ENERGY STAR Version 3; this represents about 18% of total construction cost.
HFH Grand Traverse Region (MI)  
Zero Energy Ready & LEED Platinum

The Depot Neighborhood

Habitat for Humanity Grand Traverse Region
Traverse City, MI
habitatgrt.org
Project: The Depot Neighborhood

1,352 ft²  
3 bedroom, 2 bath, 1 floor  
6A cold climate, affordable

HERS -1

$9  
Average Monthly Energy Bill  
Calculated

$900  
Annual Savings  
Calculated versus typical new homes

$39,000  
Saved in the First 30 Years  
Includes fuel escalation rate, 2015 EIA Energy Outlook

$12,000 per unit in PV = $896 annual energy cost savings per unit
Establish a level playing field for adorability and access to sustainable housing for lower income families.

Demonstrate leadership for responsible, innovative community development, “traditional neighborhood design” and green building practices.

Exhibit how we value and nurture social and natural environments. Create a positive and rewarding sense of place for families.

Promote traditional values of self-sufficiency and community responsibility.

Add economic value to the neighborhood and the broader community.

2 Million paid to local contractors & suppliers | $485K funding & in-kind donations

$31,850 annual combined taxes paid by the 10 homeowners
Have you ever worked with Habitat for Humanity to build strength, stability and self-reliance through shelter?
Test your Habitat knowledge

True or False: “Habitat gives houses away.”
How do we encourage affiliate participation?

Leading the way with:

- Funding
- Technical assistance
- Research partners
- Templates
- Examples from the field
- Peer-to-peer engagement
Partnership

Research & Collaboration

IBHS
Insurance Institute for Business and Home Safety

RESNET
Residential Energy Services Network

RNPN
Resilient Nation Partner Network

FLASH
Federal Alliance for Safe Homes

Partners

SIMPSON
Strong-Tie

TRAVELERS
Get Involved

How can you help?

National or Regional – Support the Mission

Donated Product: impact-resistant windows
Cash Funding: program & affiliate support
Technical Assistance: on-call expert
Research & Collaboration: case studies
Thank you!

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