

National Green Building Standard



March 2010



National Green Building Certification

NAHB Research Center
National Green Building Standard
Green Approved Products

OVERVIEW



National Green Building Certification

NAHB Research Center History

- Founded in 1964
- Independent, wholly-owned subsidiary of NAHB
- Fee-for-service research firm
- Originally a small product testing lab
- Grown to full-service housing technology/product research firm



National Green Building Certification

Mission

To improve the durability, affordability,
and environmental performance of
housing

Methodology

Remove barriers to innovation

Innovation Impediments

- Dominance of small firms
- Lack of industry integration
- Poor flow of information among industry players
- High cost of deployment
- Diverse, local building codes

State-of-the-Art Lab & Market Research Facility



National Green Building Certification

Capabilities

- Market Research
- Lab Testing & Certification
 - Third-party accredited
 - Product, Materials, and Systems Testing
- Field Evaluations & Demonstrations
 - Research Center Park demo homes
 - Customized analysis
- Code Compliance
- Information Dissemination



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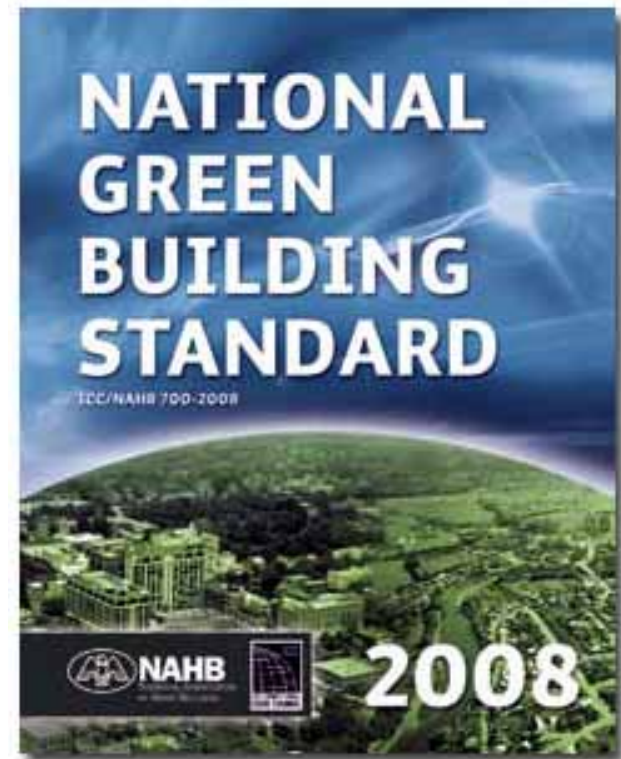
Green Certification to the National Green Building Standard

- Served as Secretariat for the Standard
- Provide certification services to the National Green Building Standard
- Qualify, train, and accredit verifiers
- Provide national oversight and interpretation
- Issue Green Certified mark



National Green Building Standard

- ANSI-accredited
January 2009
- Collaboration
between
International Code
Council and NAHB



Builder Interest in Green

No Interest	12%
Considering Green	20%
Learning How to Build Green	23%
Build Non-Certified Green Homes	28%
Build Certified Green Homes	17%
TOTAL	100%

Source: 2009 Home Builder Omnibus Survey, NAHB Research Center



National Green Building Certification

5 Key Elements

1. ANSI-approved consensus standard
2. Free web-based Green Scoring Tool
3. Third-party verification of all points claimed
4. Applies to all residential projects
5. Requires progressively higher levels of environmental performance in every category to obtain higher levels of green certification



Program Features

- Philosophy
 - Bring green into mainstream
 - Written in code language for familiarity
- Flexibility
 - Expansive point-based system
 - More flexibility, without less rigor
 - One standard for all residential
- Cost
 - Green Scoring Tool – “no cost to entry”
 - Work directly with Verifier
 - Fees are affordable



Multi-family Buildings



- All units must have green practice for points
- Includes MF remodeling
- One verification report per building
- Mixed-use ok



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Green Remodel Path

- Available for homes pre-1980
- Requires:
 - Improve energy efficiency
 - Reduce water usage
 - Implement indoor air quality measures
- Strictly performance based



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Land Development



- Certify to One, Two, Three, and Four Stars
- Performance criteria Chapter 4 in Standard
- Certification at either design stage, completion, or in phases

DOE Builders Challenge

- Program Goal
 - Cost-neutral Net-Zero Energy Home
 - Anywhere in US by 2030
- 220,000 high performance homes by 2012
 - 70 threshold on E-Scale
 - Meet Builders Challenge Quality Criteria
- Incremental increases to 2030
- Seamlessly integrated with Certification
 - Green Scoring Tool
 - Dual Certification



Certification to the Standard



The TurboTax® for the Standard

THE GREEN SCORING TOOL



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About NAHB Green

Who is Green?

Green Scoring Tool

Rating Systems

Certification

Education

:: Home : Green Scoring Tool

Greening the American Dream

NAHB Green Scoring Tool

Quick Links

[CGP - Certified Green Professional Designation](#)

[Become a Verifier](#)

[Home Certification](#)

[Find a Local Program](#)

[Find a Verifier](#)

Section Total:
37

37	82	100+
Bronze	Silver	Gold

Ready to build green? Score your home design using this interactive tool based on the *NAHB Model Green Home Building Guidelines*.

SIGN IN

You are currently signed in to the NAHB Green Scoring Tool.

[View My Projects](#)

[Sign out](#)

DOWNLOAD

[NAHB Model Green Home Building Guidelines](#)

[Verifier's Resource Guide](#)

The NAHB Green Scoring Tool is useful to skilled professionals as well as novices, providing information about the why and how of green building at every step.



Sign in or register using the box to the left to begin scoring your green home.

Ready to go green? [Register](#) or sign in to determine how many points your project would earn using the *NAHB Model Green Home Building Guidelines*.

It doesn't really cost more build green. It's not a matter of what materials you use, it's how you use them. Green building is about best practices.

Jeff Junkert, Jeff Junkert Construction, Billings, MT

The Green Scoring Tool uses the *NAHB Model Green Home Building Guidelines* as its basis. Additional tools are currently under development to be released when the National Green Building Standard is officially available to the public.

Consumers can develop ideas to discuss with their builders or remodelers. Builders or remodelers can develop green home designs to discuss with their trades or customers, and if they are intending to get the homes certified, they can develop their designs to



Products pre-approved for points under Standard

GREEN APPROVED PRODUCTS



National Green Building Certification

Green Approved Products

- Pre-approved points for products
- Assists builders with making product choices
 - Link in Green Scoring Tool
 - Simplifies specifications and field inspections
 - Simple and seamless process for builders to select products

Approved Products Integrated with Green Scoring Tool

Chapter 6: Resource Efficiency

Section 601 Quality of Construction Materials and Waste

Design and construction practices that minimize the environmental impact of the building materials are incorporated, environmentally efficient building systems and materials are incorporated, and waste generated during construction is reduced.

601.7 Site applied finishing materials

601.7 Building materials or assemblies are utilized that do not require additional site applied material for finishing. These include:

- pigmented, stamped, decorative, or final finish concrete or masonry
- trim not requiring paint or stain
- window, skylight, and door assemblies not requiring paint or stain on exterior and/or interior surfaces
- wall coverings or systems not requiring paint or stain or other type of finishing application

For example: of all of the exterior trim, less than 10% needs to be painted.

12 points maximum awarded

	Points per Material	Number of Materials
Enter number of types of materials or assemblies where at least 90% are pre-finished	5	<input type="text" value="0"/>
Enter number of types of materials or assemblies where at least 50% are pre-finished	2	<input type="text" value="0"/>

Points Recorded: **0**

[How to Verify](#) | [Intent](#) | [How to Implement](#) | [Resources](#) | [Green Approved Products](#)

[Show Your Comments](#)

Chapter Status | **Project Status**

Chapter 6 Score: How do I reach a green level?

Chapter Minimums: **45** **79** **113** **146**

Mandatory Status: **1**

Don't forget your Additional Points!

[Chapter Summary](#) | [Project Scoring Analysis](#) | [Project Reports](#)

Product Listing on www.GreenApprovedProducts.com

NAHB RESEARCH CENTER GREEN APPROVED

GREEN APPROVED PRODUCTS

for the National Green Building Standard™

Home | **Find Products** | Find Manufacturers | Get Listed | Green Scoring Tool | About Us | Contact Us

Find Products

Look for products approved to earn points toward [National Green Building Certification](#). You can view all products, sort by product type, or sort by practices listed in the [National Green Building Standard™](#).

List All
 Browse by Product Type
 Browse by Green Practices

iLevel by Weyerhaeuser
 Hide 8 product(s) approved for this manufacturer

Product Name	Maximum Possible Points for the Standard
Weyerhaeuser Lumber, iLevel Framer Series Lumber	4 - 10
iLevel Javelin, iLevel TJ-Xpert	4
iLevel Trus Joist TJI Joist, iLevel Trus Joist TJO Joist	3 - 17
iLevel Trus Joist StrandGuard TimberStrand LSL	3 - 22
iLevel Shear Brace	3 - 16
iLevel Edge, iLevel Edge Gold, iLevel Radiant Barrier Sheathing, Weyerhaeuser Sheathing	0 - 24
iLevel Trus Joist TimberStrand LSL, iLevel Trus Joist Parallam PSL, iLevel Trus Joist Microllam LVL	3 - 16
iLevel NextPhase Site Solutions	4

ODL, Inc.
 Show 1 product(s) approved for this manufacturer

Rainwater Collection Solutions Inc
 Show 1 product(s) approved for this manufacturer

Owens Corning



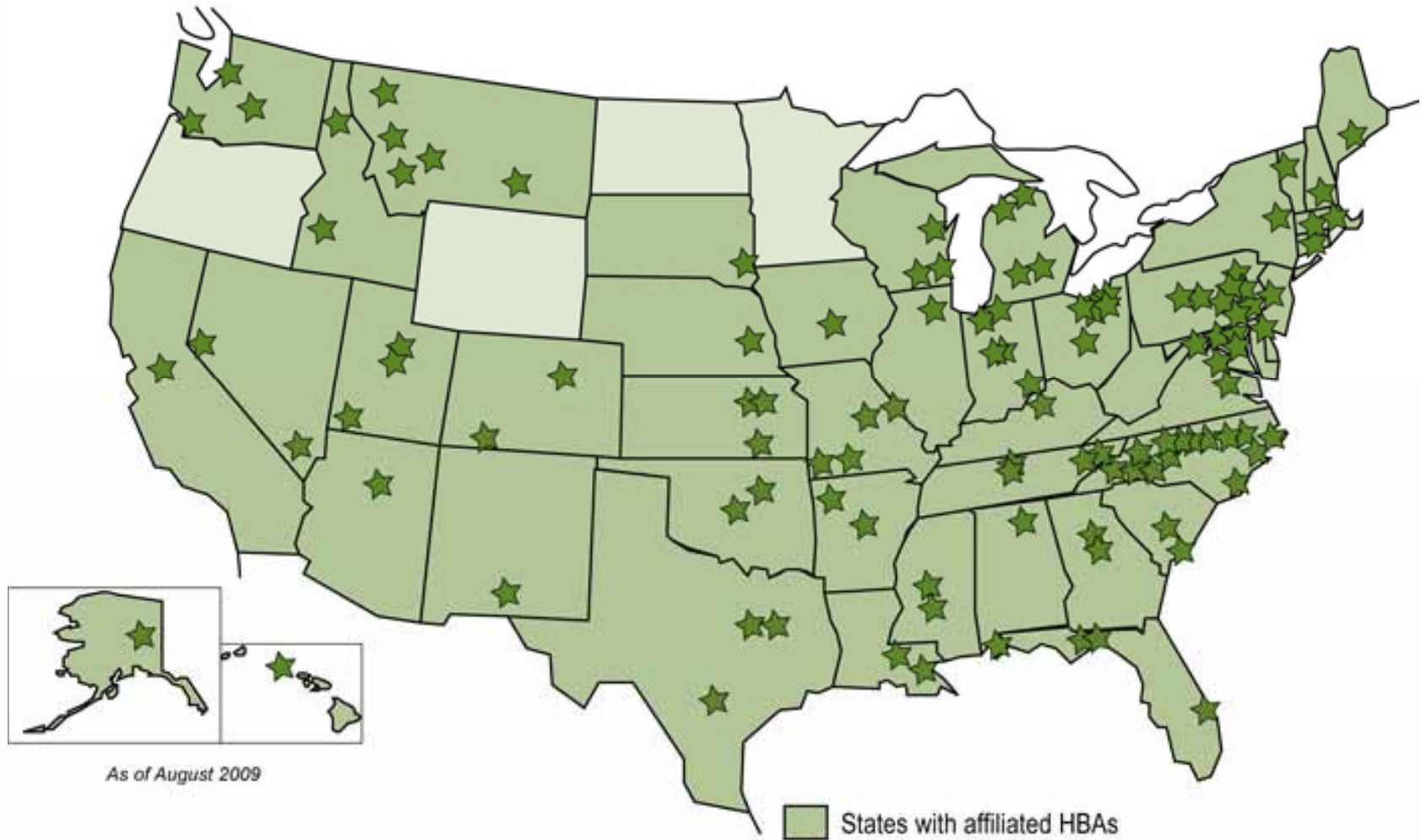
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PROGRAM PARTNERS



National Green Building Certification

Affiliated HBAs



Local Green Building Programs

Build Green NJ



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Program Accomplishments

- Accredited Verifiers 392
- Projects Scored 12334
- Green Approved Products 113
- *Builders* 381
- Certified Projects 850
- Scheduled Inspections 523



**LOOK FOR THIS MARK.
IT'S PROOF THAT YOUR HOME IS
GREEN!**



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