

# National Green Building Certification



September 2009



**National Green Building Certification**

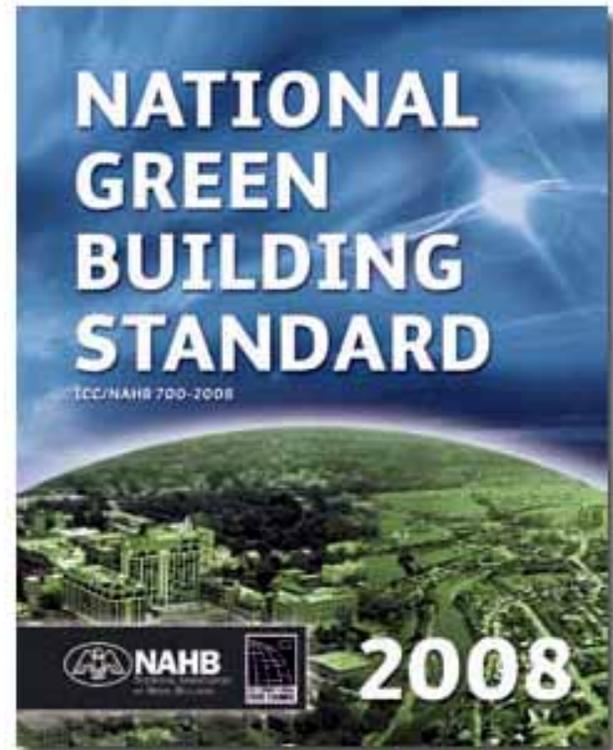
# Overview

- **National Green Building Standard**
- **Green Certification**
- **Green Approved Products**
- **NAHB Research Center**



# National Green Building Standard

- **Approved Jan 2009**
- **Collaboration between ICC and NAHB**
- **First green rating system to be approved consensus standard**



**National Green Building Certification**



## Key Elements

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



# National Green Building Standard

- **Hallmarks of ANSI process include:**
  - consensus **by** balance of stakeholders;
  - broad-based public review **and comment**;
  - consideration of comments **submitted**;
  - **incorporation of approved changes into standard**; and
  - right to appeal **for anyone who believes that due process was not respected**

# Flexible Point-based System

- **Sets mandatory performance baseline**
- **Rewards green practices above code**
- **Reflects diversity of markets and practices**
  - **Accommodates incremental improvements in environmental performance**
  - **Allows designers to find the most effective and efficient path to reach green building goals**
  - **Flexible for regional and local conditions**
  - **Encourages innovation in both design and technology**





Lot Design

Energy Efficiency

Indoor Air Quality

Water Efficiency

Operation & Maintenance

Resource Efficiency



**National Green Building Certification**

# Performance Levels

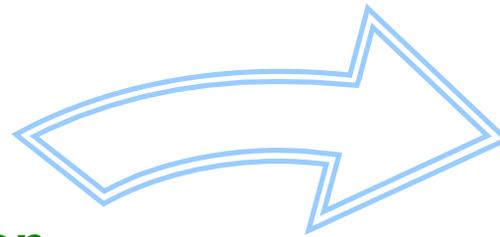
**Threshold Point Ratings for Green Buildings**

Green Building Categories			Performance Level Points <sup>(1) (2)</sup>			
			BRONZE	SILVER	GOLD	EMERALD
1.	Chapter 5	Lot Design, Preparation, and Development	39	66	93	119
2.	Chapter 6	Resource Efficiency	45	79	113	146
3.	Chapter 7	Energy Efficiency	30	60	100	120
4.	Chapter 8	Water Efficiency	14	26	41	60
5.	Chapter 9	Indoor Environmental Quality	36	65	100	140
6.	Chapter 10	Operation, Maintenance, and Building Owner Education	8	10	11	12
7.		Additional Points from any category	50	100	100	100
<b>Total Points:</b>			<b>222</b>	<b>406</b>	<b>558</b>	<b>697</b>

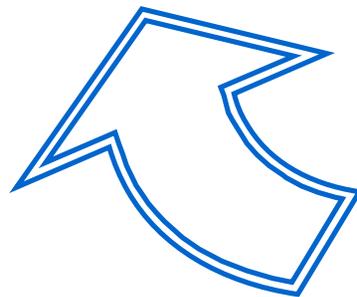
- (1) In addition to the threshold number of points in each category, all mandatory provisions of each category shall be implemented.
- (2) For dwelling units greater than 4,000 square feet (372 m<sup>2</sup>), the number of points in Category 7 (Additional Points from any category) shall be increased in accordance with Section 601.1. The "Total Points" shall be increased by the same number of points.

# Certification to the Standard

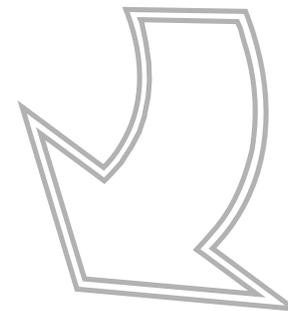
**National  
certification  
ensures  
consistency**



**Standard  
defines  
green**



**Project  
verification  
ensures  
compliance**



# Project Certification Process



# Third-Party Verification



**National Green Building Certification**

# 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



# The Green Scoring Tool



**National Green Building Certification**



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.



## Get Started!

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



# Online Green Project Management

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:: Home : Green Scoring Tool Greening the American Dream

## Green Scoring Tool for the National Green Building Standard

**Scoring Tool Navigation**

- [My Projects](#)
- [Create New Project](#)
- [My Account](#)
- [Scoring Tool Help](#)
- [Certification Information](#)
- [Brochures](#)
- [View Guidelines Projects](#)
- [Sign Out](#)

### My Projects

Project Name	Scoring Path	Score	Green Level Achieved	Options
<b>Green Acres</b> Emerald Model Home <small>Created on 4/17/2009 12:27:19 PM</small>	Single-Family New Construction	0	None	<a href="#">Checklist</a>   <a href="#">Project Scoring Analysis</a>   <a href="#">Reports</a> <a href="#">Edit Project Details</a>   <a href="#">Copy Project</a>   <a href="#">Delete Project</a>
<b>Greener Pastures</b> Bronze Starter Home <small>Created on 4/17/2009 3:03:13 PM</small>	Single-Family New Construction	0	None	<a href="#">Checklist</a>   <a href="#">Project Scoring Analysis</a>   <a href="#">Reports</a> <a href="#">Edit Project Details</a>   <a href="#">Copy Project</a>   <a href="#">Delete Project</a>
<b>Energy Smart Park</b> Gold Standard Home <small>Created on 4/20/2009 3:07:08 PM</small>	Single-Family Green Remodel	N/A	None	<a href="#">Checklist</a>   <a href="#">Project Scoring Analysis</a>   <a href="#">Reports</a> <a href="#">Edit Project Details</a>   <a href="#">Copy Project</a>   <a href="#">Delete Project</a>



# HBA Web-Branding

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**NEW JERSEY BUILDERS ASSOCIATION**  **Build Green New Jersey**

**Green Scoring Tool for the National Green Building Standard**

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### My Projects

Project Name	Scoring Path	Score	Green Level Achieved	Options
<b>Green Acres</b> Emerald Model Home <small>Created on 4/17/2009 12:27:19 PM</small>	Single-Family New Construction	87	None	<a href="#">Checklist</a>   <a href="#">Project Scoring Analysis</a>   <a href="#">Reports</a> <a href="#">Edit Project Details</a>   <a href="#">Copy Project</a>   <a href="#">Delete Project</a>
<b>Greener Pastures</b> Bronze Starter Home <small>Created on 4/17/2009 3:03:13 PM</small>	Single-Family New Construction	0	None	<a href="#">Checklist</a>   <a href="#">Project Scoring Analysis</a>   <a href="#">Reports</a> <a href="#">Edit Project Details</a>   <a href="#">Copy Project</a>   <a href="#">Delete Project</a>
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**Green Scoring Tool for the National Green Building Standard**

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- Scoring Tool Checklist**
- [Reports](#)
- [Project Scoring Analysis](#)
- [Builders Challenge](#)

**Hide Chapter Navigation**

- Chapter 5 - Lot Design, Preparation, and Development
- Chapter 6 - Resource Efficiency
- Chapter 7 - Energy

**Scoring Tool Checklist**

**Project Name:** Green Acres

**Project Description:** Emerald Model Home

**Scoring Path:** Single-Family New Construction

**Green Level Achieved:** None

This project is 1234 square feet, requiring 50 additional points for Bronze and 100 additional points for Silver, Gold, and Emerald.

Chapter 8, Step 14 of 14

**Summary of Chapter 8: Water Efficiency**

Below is a summary of the points available and your points claimed for each line item in Chapter 8: Water Efficiency.

Depending upon a variety of project specific factors, it may not be possible to claim all of the points indicated.

This practice may be mandatory depending upon location and specifics of the design.

Practice Number	Practice Name	Maximum Points Available	Points Claimed	*Mandatory Item Status
-----------------	---------------	--------------------------	----------------	------------------------

**Project Status**

Chapter 8 Score:  [How do I reach a green level?](#)

Chapter Minimums: 14 26 41 60

[Mandatory Status:](#)

[Don't forget your Additional Points!](#)

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

**Project Dashboard**



**National Green Building Certification**

[Brochures](#)  
[View Guidelines Projects](#)  
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[Scoring Tool Checklist](#)  
[Reports](#)  
[Project Scoring Analysis](#)

### Scoring Requirements Tally

**!** Please read carefully

#### Additional Points

According to 601.1 of the National Green Building Standard, a dwelling greater than 4,000 square feet will require an increase in the additional points needed to reach a particular level (1 point per every 100 square feet over 4,000).

For this project:

Square Footage = 1234

Additional Points needed for Bronze = 50

Additional Points need for Silver, Gold, or Emerald = 100

#### Energy Efficiency Path

Path chosen = Performance Path

Because this project follows the Performance Path, it is eligible to attain the Emerald

The Project Scoring Analysis provides an overview of the points achieved for your project, and allows you to see what points are necessary to reach each level of green building.

### Hide Bronze Scoring Analysis

Chapter	Required Points	Claimed Points	Additional Claimed Points Above Bronze	Point Shortfall	Mandatory Status
<a href="#">Chapter 5: Lot Design, Preparation, and Development</a>	39	58	19		Not Applicable
<a href="#">Chapter 6: Resource Efficiency</a>	45	25		20	Not Met
<a href="#">Chapter 7: Energy Efficiency</a>	30	60	30		Not Met
<a href="#">Chapter 8: Water Efficiency</a>	14	4		10	Not Applicable
<a href="#">Chapter 9: Indoor Environmental Quality</a>	36	53	17		Not Met
<a href="#">Chapter 10: Operation, Maintenance, and Building Owner Education</a>	8	3		5	Met
<b>SECTION TOTALS</b>	<b>172</b>	<b>203</b>	<b>66</b>	<b>35</b>	
<b>Additional Points Above Bronze</b>	<b>50</b>	<b>--</b>	<b>66</b>	<b>0</b>	
<b>TOTAL POINTS</b>	<b>222</b>	<b>203</b>	<b>--</b>	<b>35</b>	

#### To achieve Bronze:

- Reach required Bronze score for each chapter
- Reach required Additional Points for this project
- Meet all mandatory items



# Builder's Report

	A	B	C	D	E	F	G	H	I	J
1	Project Name - <b>ANSI NGBS Dons test house 1</b>									
2	Project Description - <b>misc review items</b>									
3	Scoring Path - <b>Multi-Unit New Construction</b>									
4	Total points claimed in this Project - <b>144</b>									
5	Green level achieved for this Project - <b>None</b>									
6	<b>Point Minimums for this Project:</b> Bronze: 222 Silver: <b>406</b> Gold: <b>558</b> Emerald: <b>697</b>									
7	Chapter 5 - Lot Design, Preparation, and Development									
8	Section 501 - Lot Selection									
9	PRACTICE 501.2 Mass transportation									
10										
11	A range of mass transportation choices are promoted by one or more of the following:									
12										
13	Access to mass transit.									
14	<b>Conditions met</b>									
	<b>Points Claimed: 3</b>									
15	<b>Documentation Required</b> - Map showing location of transportation relative to the building.									
16	Pedestrian activity promoted.									
17	<b>Conditions met</b>									
	<b>Points Claimed: 3</b>									
18	<b>Documentation Required</b> - None.									
19	Community resources (6 or more) close by.									
20	<b>Conditions met</b>									
	<b>Points Claimed: 3</b>									
21	<b>Documentation Required</b> - Map showing location of community resources relative to building.									
22	Section 502 - Project Team, Mission Statement, and Goals									
23	PRACTICE 502.1 Project team, mission statement, and goals									
24	A knowledgeable team & mission statement is established.									
25	<b>Conditions met</b>									
	<b>Points Claimed: 4</b>									
26	<b>Documentation Required</b> - Project mission statement, goals, and specific team member roles identified.									
27	Section 503 - Lot Design									
28	PRACTICE 503.1 Natural resources									
	GreenStandardReport 1									

**Report generated from Green Scoring Tool and includes all green practices and products to be used**

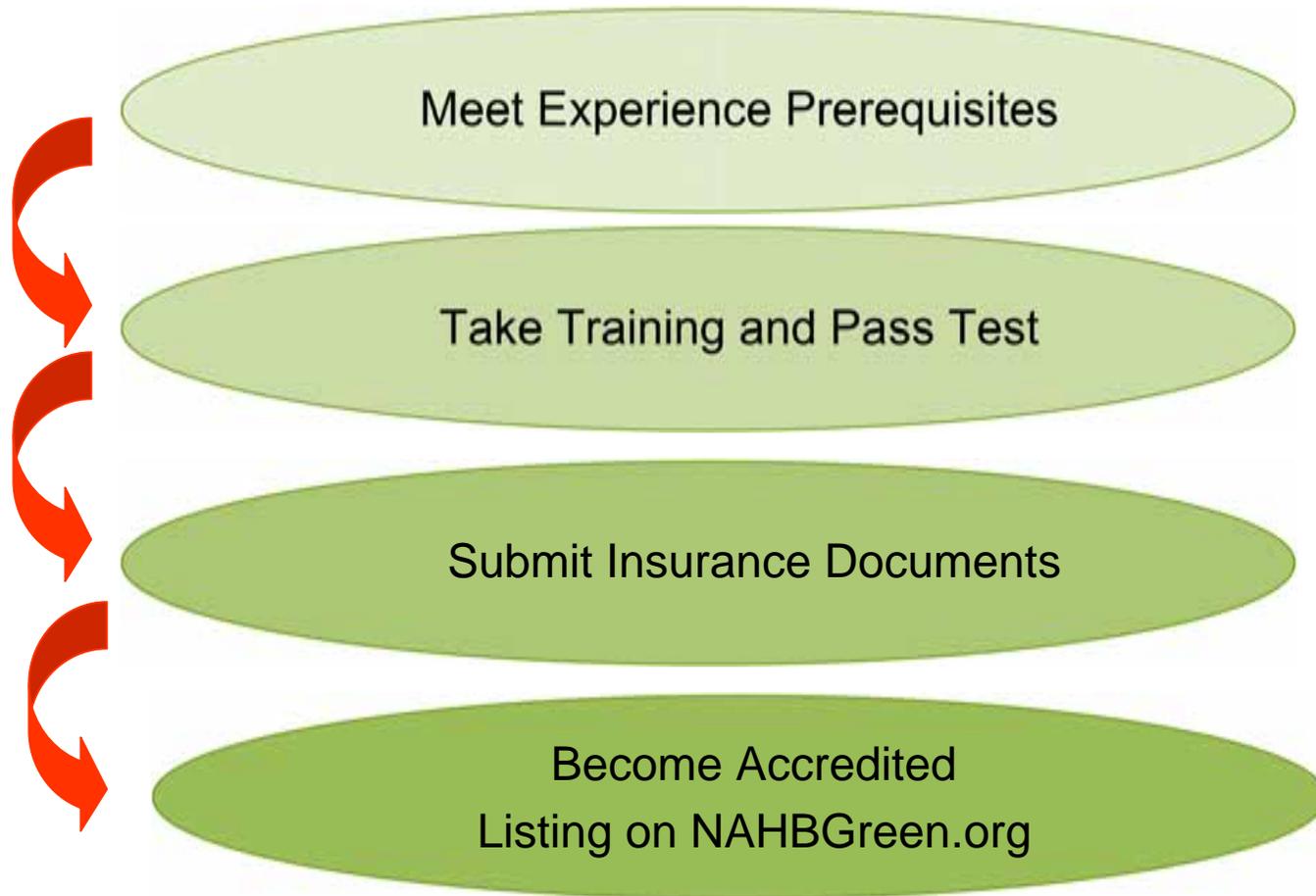


# Verification Process

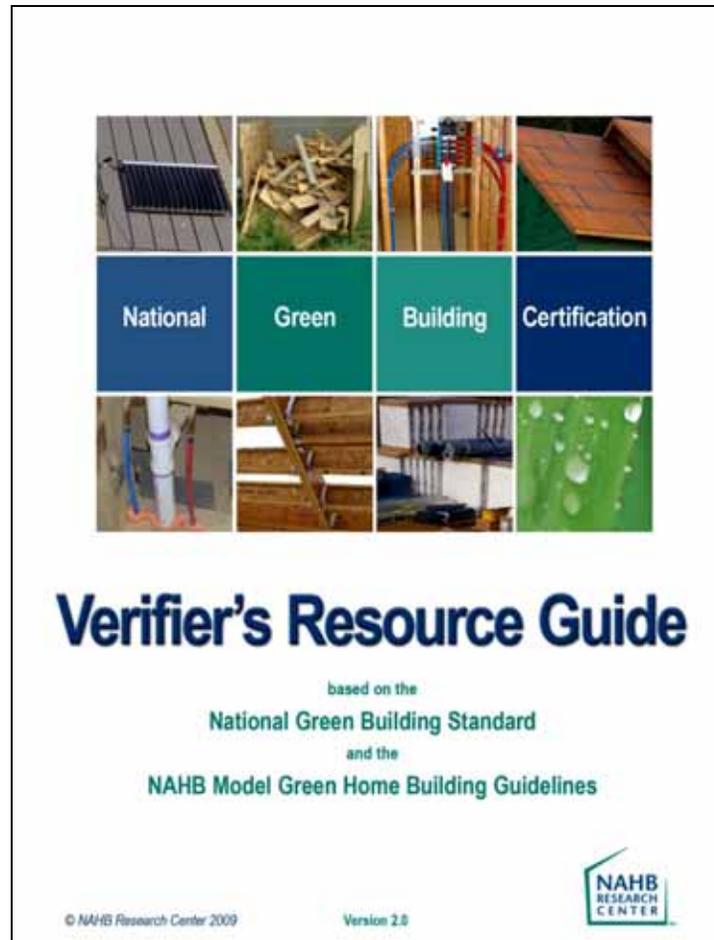


**National Green Building Certification**

# Process to Become a Verifier



# Accredited Verifiers Resources



- **Verifiers Resource Guide**
  - For accredited verifiers only
  - Provides guidance
  - Updated regularly
- **Verifiers Update**
  - Bi-monthly
  - Insiders Tips
  - Green Scoring Tool
  - FAQs

# Verification Report

VERIFICATION REPORT - NATIONAL GREEN BUILDING STANDARD					NAHB RESEARCH CENTER	
Builder/Applicant			Address with Zip Code of Home:		TARGET LEVEL FOR CERTIFICATION:	
Mailing (physical) Address with Zip Code of Home:			Community/Lot #			
GREEN BUILDING PRACTICES	Points Available	Points Claimed	POINTS AWARDED		Verifier Notes:	
			AT ROUGH	AT FINAL		
<b>500 LOT DESIGN, PREPARATION AND DEVELOPMENT</b>						
<b>501 LOT SELECTION</b>						
501.1 (1) An infill lot is selected.	4					
501.1 (2) A greyfield lot, OR an EPA-recognized brownfield lot	5				<input type="checkbox"/> Greyfield <input type="checkbox"/> Brownfield	
501.2 (1) Access to mass transit	3					
501.2 (2) Pedestrian activity promoted.	3					
501.2 (3) Community resources (6 or more) close by	3					
<b>502 PROJECT TEAM, MISSION STATEMENT AND GOALS</b>						
502.1 Knowledgeable team & mission statement.	4					
<b>503 LOT DESIGN</b>						
503.1 Natural resources on the building site are conserved by one or more of the following:						
(1) A natural resources inventory	5					
(2) Conservation of high priority resources.	6					
(3) Protected under the direction of a qualified professional.	4					
(4) Basic training natural resource protection for the on-site supervisor.	4					
(5) All tree pruning by a Certified Arborist.	2					
(6) Maintenance of vegetation per TCIAA300.	3					
503.2 Slope disturbance is minimized by one or more of the following: (Points awarded only if there are developable steep slopes on the lot.)						
1(a) less than 25% of the slope is undisturbed	2*				fix indentations everywhere	
1(b) 25% to 75% of the slope is undisturbed	3*					
1(c) >75% of the slope is undisturbed	4*					



# Verification Principles

- **Verifier's Resource Guide is controlling**
  - Not the Standard, personal opinion, previous experience, other programs
  - All interpretations documented for consistency
- **Points approved only if inspected home meets intent of Verifiers Resource Guide**
- **Practices must be observed by Verifier**
  - Unless documentation review is allowed
  - Builder can not self-certify any points

# Verifier Prohibitions

- **No HBA employees**
- **Builders and their employees may not verify their own homes**
- **No trade contractors or suppliers or product supply companies who work or provide products can verify that project**



# Local Green Building Programs

**Build Green NJ**



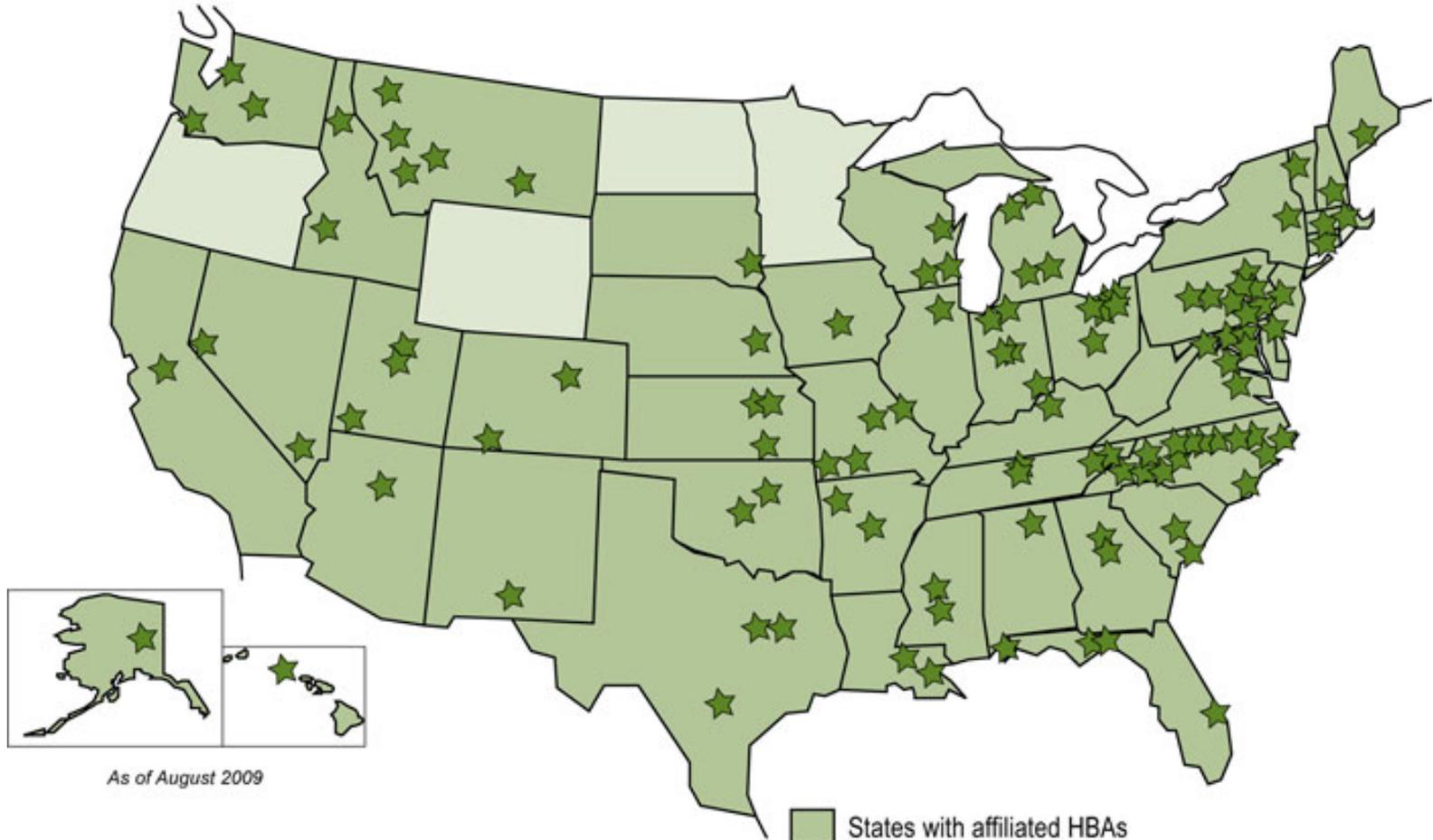
**Hawai'i BuiltGreen™**



**National Green Building Certification**



# NAHBGreen Affiliated HBAs



As of August 2009

To affiliate your local effort contact Kevin Morrow, Green Standards Program Manager at NAHB, 202-266-8375.



## National Green Building Certification

# Green Modular Homes



**National Green Building Certification**

# Green Approved Products



**National Green Building Certification**

# Green Approved Products

- **Pre-approved points for products**
  - **Third-party verification required**
- **Assists builders with making product choices**
  - **Approved products listed 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](#)



# GreenApprovedProducts.com

The screenshot shows the website's header with the NAHB Research Center logo and the text "GREEN APPROVED PRODUCTS for the National Green Building Standard™". A navigation bar includes links for Home, Find Products, Find Manufacturers, Get Listed, Green Scoring Tool, About Us, and Contact Us. The main content area features the headline "Certifying green homes just got one step easier" and three columns of information:

- Manufacturers: Get Your Products Green Approved**  
Make sure your products are in front of builders serious about National Green Building Certification - [get your products Green Approved](#) today.
- Builders & Designers: Specify Green Approved Products**  
Don't wonder if your verifier will agree that you should get the points you're claiming - know it. [Specify Green Approved products](#) in your next project.
- Verifiers: Streamline Your Process**  
Understand what products are Green Approved to streamline the verification process. Encourage your builder clients to [use Green Approved products](#) to save your time and theirs.

At the bottom, there are two promotional banners: "Order the National Green Building Standard" (with a book cover image) and "Score Your Green Project" (with a house image and the number 37).

GreenApprovedProducts.com is sponsored by the [NAHB Research Center](#)  
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National Green Building Certification

# 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
<a href="#">Weyerhaeuser Lumber, iLevel Framer Series Lumber</a>	4 - 10
<a href="#">iLevel Javelin, iLevel TJ-Xpert</a>	4
<a href="#">iLevel Trus Joist TJI Joist, iLevel Trus Joist TJO Joist</a>	3 - 17
<a href="#">iLevel Trus Joist StrandGuard TimberStrand LSL</a>	3 - 22
<a href="#">iLevel Shear Brace</a>	3 - 16
<a href="#">iLevel Edge, iLevel Edge Gold, iLevel Radiant Barrier Sheathing, Weyerhaeuser Sheathing</a>	0 - 24
<a href="#">iLevel Trus Joist TimberStrand LSL, iLevel Trus Joist Parallam PSL, iLevel Trus Joist Microllam LVL</a>	3 - 16
<a href="#">iLevel NextPhase Site Solutions</a>	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**



**National Green Building Certification**

# Points for Wood Products

- **Pre-fabricated components for floor, wall, or roof systems (4-13 points)**
- **Encourages advanced framing techniques in wood frame construction (max 9 points)**
- **Treated wood for termite resistance (2-6 points)**
- **Engineered wood, roof or floor trusses (9 points)**
- **Indigenous materials for major building elements (10 points)**

# Resource Efficiency Points

- **Certified wood for building elements**
  - **3-4 Points**
  - **Based on following programs:**
    - American Tree Farm System
    - Canadian Sustainable Forest Management System
    - Forest Stewardship Council
    - Program for Endorsement of Forest Certification System
    - Sustainable Forestry Initiative
    - Other programs recognized by PEFC

# Green Certification Costs



# Green Rating Cost Comparison

Rating System	Bronze / Certified	Silver	Gold	Emerald/ Platinum
<b>National Green Building Standard</b>	1 - 2%	3%	7%	16%
<b>LEED-H</b>	3-6%	5 – 7%	11 –13%	17 – 23%

# NAHB Research Center



**National Green Building Certification**

# NAHB Research Center Background

- **Mission to improve the durability, affordability, and environmental performance of housing**
- **Founded in 1964 as for-profit, independent subsidiary of National Association of Home Builders**
- **Core Competencies**
  - **Market Research**
  - **Third-party accredited Lab Testing & Certification**
  - **Field Evaluations & Demonstrations**
  - **Code Compliance**
  - **Information Dissemination**



**National Green Building Certification**

# NAHB Research Center Green Certification

- **Sole certifying body for NAHB National Green Building Program**
- **Train and accredit verifiers**
- **Provide national oversight and interpretation**
  - **Ensure accuracy and consistency**
  - **Provides technical assistance**
  - **Review and approve all verification reports**
  - **Toll-free Hotline for questions and interpretations**
- **Issue Green Certified mark**



**National Green Building Certification**

# Program Stats

● <b>Affiliated HBAs</b>	<b>117</b>	
● <b>Accredited Verifiers</b>		<b>354</b>
● <b>Certified Projects</b>	<b>434</b>	
● <b>Scheduled Inspections</b>	<b>517</b>	
● <b>Pipeline</b>	<b>4300</b>	
● <b>Projects Scored</b>	<b>9693</b>	



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



**National Green Building Certification**



# Michelle Desiderio

Director, Green Building Programs

## NAHB Research Center

400 Prince George's Blvd ♦ Upper Marlboro, MD 20774  
301-430-6205 ♦ (toll-free) 800-638-8556 ♦

[mdesiderio@nahbrc.com](mailto:mdesiderio@nahbrc.com)

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[www.NAHBGreen.org](http://www.NAHBGreen.org)



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