



National Green Building Certification Program

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National Green Building Certification

Agenda

- NAHB Research Center
- National Green Building Standard: Opportunities for Wood; Revision Process
- Trends: High-Performance, Green Homes
- Green Approved Products
- Working Together



Independent, third-party certification

NAHB RESEARCH CENTER



National Green Building Certification

NAHB Research Center

- Created in 1964
- Singular focus on residential
- Offer research, testing, and certification to achieve actionable outcomes for clients

WINCHESTER HOMES[®]
YOUR HOME  YOUR WAY

 Pardee Homes

JELD-WEN[®]
WINDOWS & DOORS



National Green Building Certification

NAHB Research Center

Integrated Consulting Services

To Improve the Quality and Affordability of Housing



- **Market Research**
- **Product Testing, Approval & Certification**
 - Third-party accredited
- **Field Evaluations & Demonstrations**
- **Code Development & Compliance**
- **Information Dissemination**
 - ToolBase.org



National Green Building Certification

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



No other facility like it
in home building
industry



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Opportunities for Wood; Revision Process

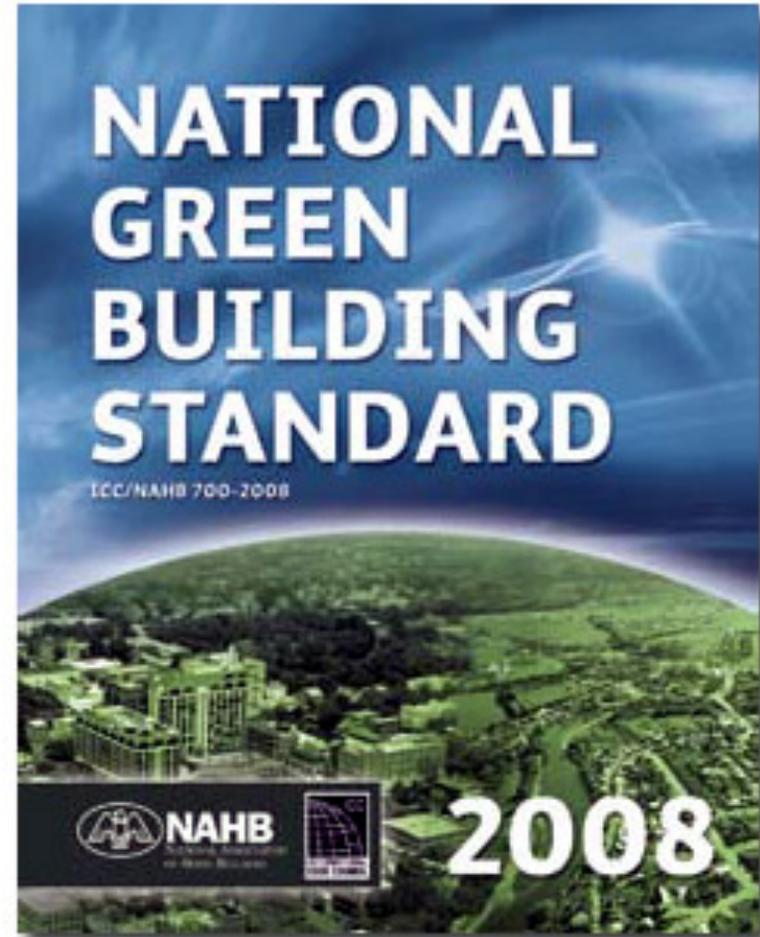
NATIONAL GREEN BUILDING STANDARD



National Green Building Certification

Green Certification

- Approved by American National Institute of Standards (ANSI) January 2009
- Provides rating system of a home's environmental impact
- Sets four performance levels for green homes
- Designed to be voluntary, above-code program



National Green Building Certification

Green Certification

- Communities / Land Development
- Homes
 - Single-Family
 - Additions
 - Renovations
 - Multifamily
 - Additions
 - Renovations
 - Green Remodel Path



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 Standards Association
 - Forest Stewardship Council
 - Program for Endorsement of Forest Certification System
 - Sustainable Forestry Initiative
 - Other programs recognized by PEFC



ANSI Revision Process

- Standard in process of updating
 - 450+ comments collected since 2009
 - 18 month process
- Consensus Committee announced
 - Met March and June in D.C.
- Public comment period October – November
- www.nahbrc.com/ngbs
- Builder transition period after completion

Trends in high-performance, green homes

WHAT WE'RE SEEING NATIONALLY



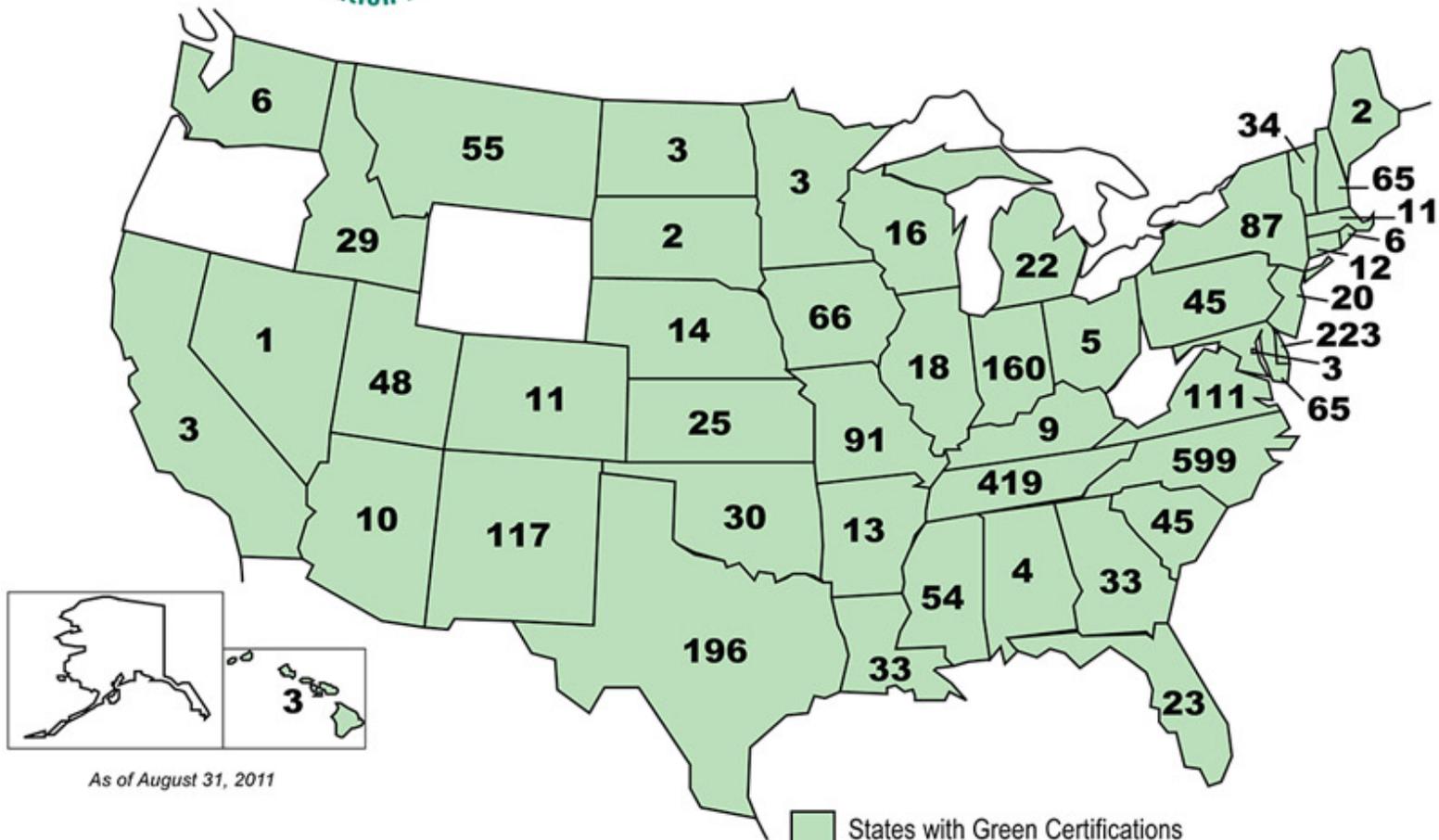
National Green Building Certification

Green Certification

- Single-family
 - Started w/ custom, small volume builders
 - Growth now regional production builders
 - Large growth in affordable projects
 - All national builders “testing” program
- Multifamily
 - Largest program growth in MF
 - Affordable, market-rate, government financed



Green Certifications by State



As of August 31, 2011

- States with Green Certifications
- States without Green Certifications



National Green Building Certification

Green Certification Trends

Year	Nationwide Annual Certifications
2009	626
2010	1,119
2011 to-date	940
Pipeline	1,507

Green Certification Trends

Type	Number
Single-family	2,843
Multifamily	68
<i>Multifamily units</i>	2,230
Land Development	13
<i>Lots within LD</i>	648

National Trends in High-Performance Homes

- Commitment to rate and market HERS index
- Green features for market differentiation
- Independent certification to validate claims
- Energy efficiency from effective design, building science, quality construction
- Affordable green
- Smaller homes, more urban settings

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](#)

Internet 100%



Working Together



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Questions?



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