



National Green Building Certification: Overview

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National Green Certification Manager**

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Presentation Topics

- Defining Green
- Trends and Projections
- Cost Analysis & Comparison
- NAHB & NAHB Research Center
- Evaluation & Certification Process
- Consumer, Community & Builder Benefits

Defining Green

A Needed Agreement on a Single Definition of Green

The 2 year ANSI process:

- **42 member consensus committee**
- **Strict rules for open and wide participation**
- **ANSI approval as a National Consensus Standard**

● National Green Building Standard

- Developed by ANSI consensus process; approved early 2009 and will be periodically reviewed & updated
 - Sponsored by NAHB & International Code Council (ICC)
 - 42 committee members included:
 - 36% Producers
 - 33% Users
 - 31% General
 - 7 Task Groups
 - Updated and improved derivative of the NAHB Model Green Building Guidelines
 - Completed 3 Ballot & Public Comment Cycles (addressed over 2,000 comments)
 - Copies now for sale from www.BuilderBooks.com
- Updated and more stringent than Guidelines

Why National Green Building Certification?

- **Above code**
- **Voluntary**
- **Responds to market demands**
- **Perfect for builders already building above minimums**

What is green? Can we agree on this important definition?

The Standard Has Raised the Bar Over the Guidelines

NAHB Model Green Home Building Guidelines	Guidelines Weighting at the “Bronze” level	National Green Building Standard (Weighting at the “Bronze” level)
		Green Subdivision 1-4 Stars
Lot and Lot Development	3%	16%
Resource Efficiency	19%	14%
Energy Efficiency	16%	13%
Water Efficiency	3%	9%
Indoor Environmental Quality	14%	23%
Operation, Maint and H.O. Education	3%	3%
Global Impact	1%	N/A
Additional points	41%	22%

- **Expanded Scope of the New Standard**
 - Land Development
 - Single Family
 - Multi-family
 - Additions
 - Renovations
- **Available Levels of Green Certification**
 - Bronze, Silver, Gold, and Emerald Levels
 - Minimum score per section required for each level
 - Need additional points across all sections
 - The lowest section score determines the home's overall score

- **Mandatory Requirements for the New Standard***

Lot Design, Preparation, and Development	0
Resource Efficiency	4
Energy Efficiency	16
Water Efficiency	0
Indoor Environmental Quality	11
Operation, Maintenance and Building Owner Education	10

**** Not all Mandatory Practices applicable to all buildings***



Green Building Myths and Green Building Realities

Green Building Myth #1

Consumers only care about the bottom line; they don't care about green

Builder Benefits & Marketing Support, cont.



Builder Reality

- **Builder in Delaware states that 70% of his current sales are generated as a result of potentially seeing that sign and touring that home**
- **Builder in Texas with 25 year track record of building green energy efficient homes says 2008 was a good, 2009 will be better**

From The Wall Street Journal

February 4, 2009

Journalist Wendy Bounds asks:

“Is it worth the dough to get the props?”

- **One-third of home buyers surveyed said they were willing to pay a \$20,000 premium for a green home.**
- **A key factor: the promise of reduced operational costs.”**

(According to a 2008 [McGraw-Hill Construction](#) report)

Green Building Reality #1

Homebuyers do care about green and are willing to pay for it!

Trends and Projections

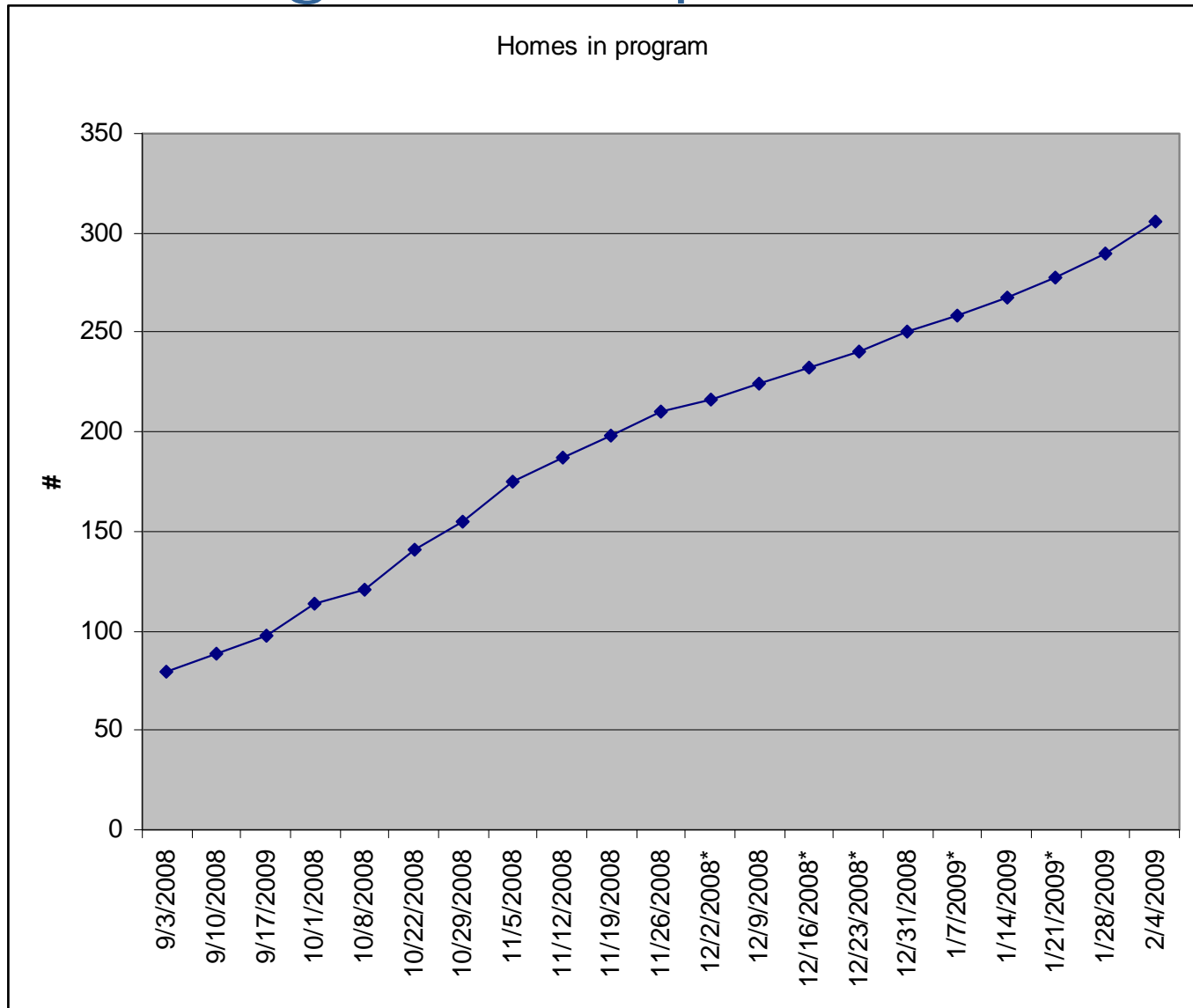
Green Building Myth #2

Green Building is a fad; it's not very important to homebuyers

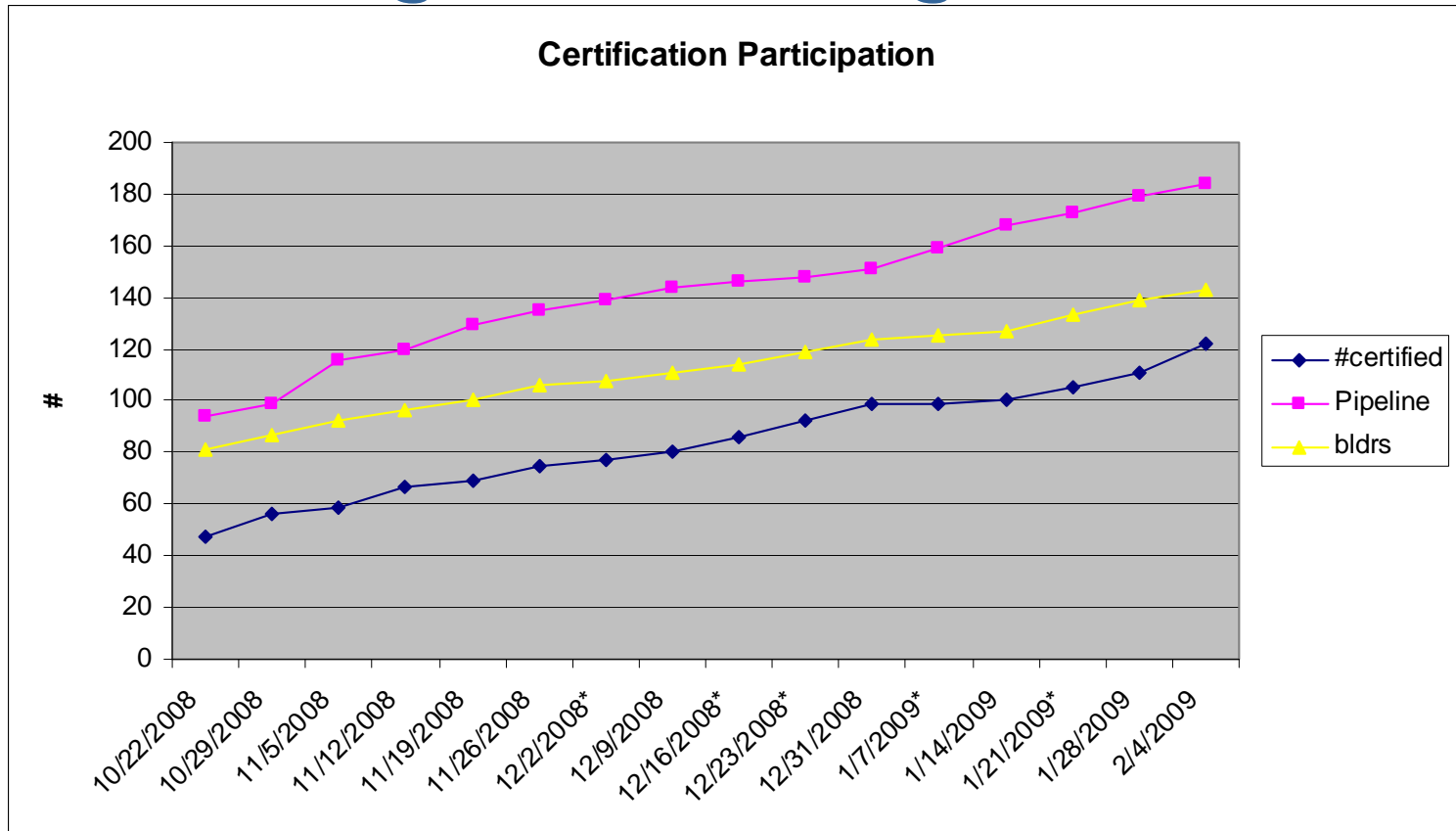
Market Trends

- McGraw-Hill says market is approaching “tipping point” and predicts green building may triple from 2008-2013
- Growing consumer demand, dramatic changes in last 3 years
 - Regulatory mandates
 - Development of consensus standard
 - High-performance homes becoming mainstream
- Merging of green certification programs
- Moving beyond energy – evolution to consumer desire for total “green” offerings
- Inevitable growth

National Green Certification Program Scope/Trends



Breaking Down Program Trends



As of February 16, 2009:

- 200+ homes in the pipeline
- 130 Certified
- Currently adding 10+ per week
- 143 builders with activity in 25 states
- Builders committing total 2009 volume to receive our national certification

Green Building Reality #2

There is significant interest and inevitable growth in green building and green building certification

Cost Analysis & Comparison

Green Building Myth #3

Building green is too expensive

Cost Analysis & Comparison

- **Generally there are 3 costs associated with building & certifying to National Green Building Certification**
 - Construction Costs
 - Verification/Testing Costs
 - Certification Fees

1. Verification Costs

- Determined locally between Builder and Verifier
- Market rate based on supply and demand
 - More than 350 Verifiers with National coverage
 - 100's more in the process of becoming accredited
- Inspections typically taking 90-120 minutes each (rough & final)
- Many verifiers also provide other inspection/testing services and are already on site
 - Testing fees set by the market

2. Certification Fees

- Single-Family Homes
 - \$200 per home for NAHB members
 - \$500 for non-members of NAHB
- Multifamily buildings
 - \$200 per building (\$500 for non-NAHB members) plus per-unit fee (\$20)
- Land Development
 - Design Approval (\$2,500)
 - Certified Development (\$2,500)

3. Direct Costs as Percentage of House Cost

Rating System	Bronze/Certified	Silver	Gold	Emerald/ Platinum
GBG	1.0 – 1.4%	2.3 – 3.4%	4.7 – 6.4%	NA
NGBS	1.1 – 1.7%	2.8 – 3.1%	6.9 – 7.6%	16.3 – 16.9%
LEED-H	3.6 – 5.6%	5.1 – 7.4%	11.2 – 13.5%	17.3 – 22.9%

Note: All 3 of these programs are in their infancy, so costs are likely to change as the programs develop.

Base House is minimum code. Dallas production house cost of \$172,700 is represented.

Green Building Reality #3

Building Green is affordable

Green Building Myth #4

It is difficult and complicated to build green

Industry Trends in Green

2nd annual *Professional Builder* magazine survey findings (2008):

Respondents found the program “Very or Somewhat easy to use”

- Energy Star Program 70%
- NAHB Green 44%
- LEED-H 23%

Respondents found the program “Very or Somewhat reliable”

- Energy Star Program 73%
- NAHB Green 50%
- LEED-H 48%

Green Building Reality #4

Many builders find green building to be “very easy” or somewhat easy”

NAHB & NAHB Research Center



Roles and Responsibilities of the Major Players

- **NAHB**
- **Local HBAs**
- **NAHB Research Center**

NAHB Overview

- **235,000 members**
- **Over 800 federated HBAs nationwide**
- **Dozens of councils and committees**
- **Extensive government and industry relationships**
- **Major player in code development**
- **Interested in providing members options, not mandates**
- **Significant brand recognition**

- **Promoting green = major priority for NAHB**
 - Co-sponsored ANSI standard development with ICC
 - Funded www.nahbgreen.org
 - 2,753 registered users
 - Growing at 17%/month
 - 10,000 user sessions in July
 - Green is key topic for NAHB meetings:
 - IBS
 - NAHB board meetings
 - *Nation's Building News*
 - Promotional materials created for HBAs
 - Active nationally with advocacy on green
- **NAHB National Green Building Program**

HBAs Affiliated with the National Program

- An effective national network of affiliated HBAs
- Utilizing NAHB Research Center's National Green Building Certification
- Assisting in local efforts in education, outreach and green marketing in their markets and to their members

Role of the NAHB Research Center in National Green Building Certification

The NAHB Research Center will:

- Track number of certified homes locally and nationally
- Create opportunities for increased visibility of local green efforts by builders and suppliers
- Work with builders on all options for National Green Building Certification

- **NAHB Research Center is sole certifying body for National Green Building Certification**
 - Trains and accredits verifiers
 - Provides oversight of verifiers for accuracy and consistency
 - Provides nationwide consistency of criteria interpretations
 - Reviews all verification reports
 - Issues certificates
 - Offers opportunity to list/showcase certified homes on the web

Evaluation & Certification Process

Evaluation & Certification Process

- **Builder Participation**

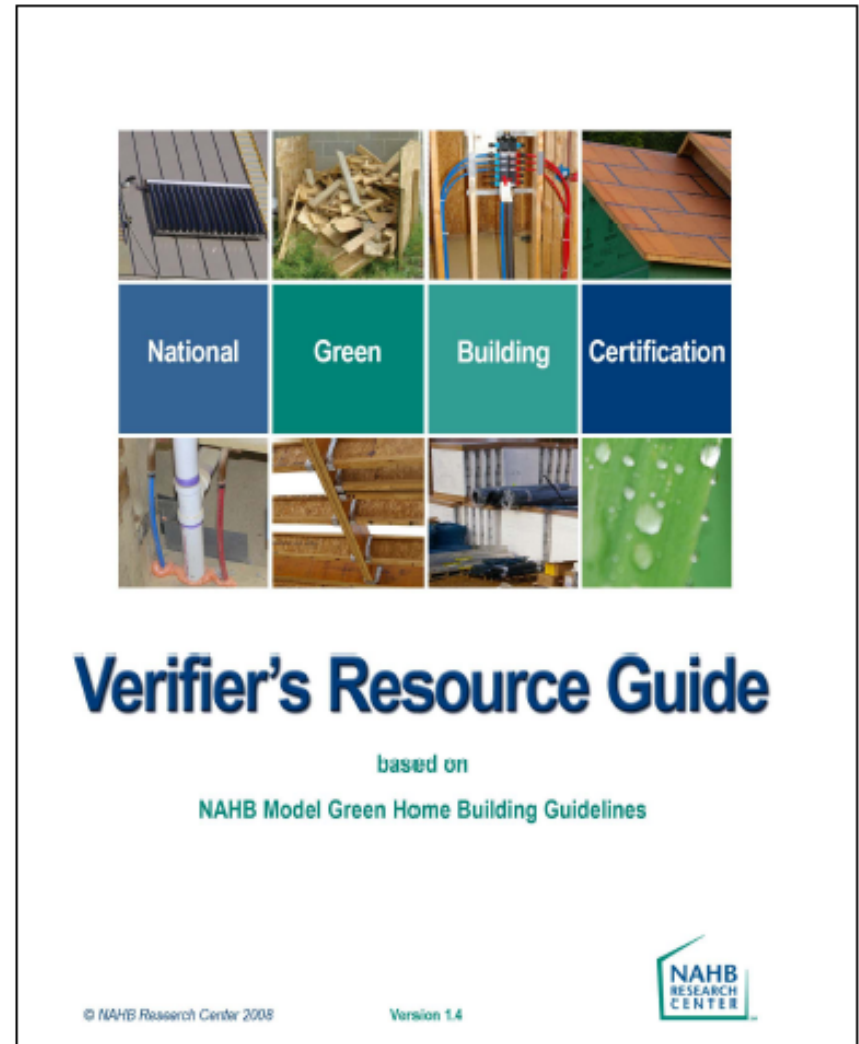
- Universal Access through NAHB Research Center
 - Single-family, multifamily, developments, and remodeling
 - NAHB Member or Non-member
- Levels of Performance
 - Bronze – Silver – Gold
 - Emerald (available with National Green Building Standard)

- **NAHB Research Center only NAHB-authorized certifying body for National Program Certification**
- **Research Center role:**
 - Develop National Green Building Certification scoring criteria
 - Accredit and oversee verifiers; list accredited verifiers on www.nahbgreen.org
 - Issue project certification



- **Research Center Program Resources**

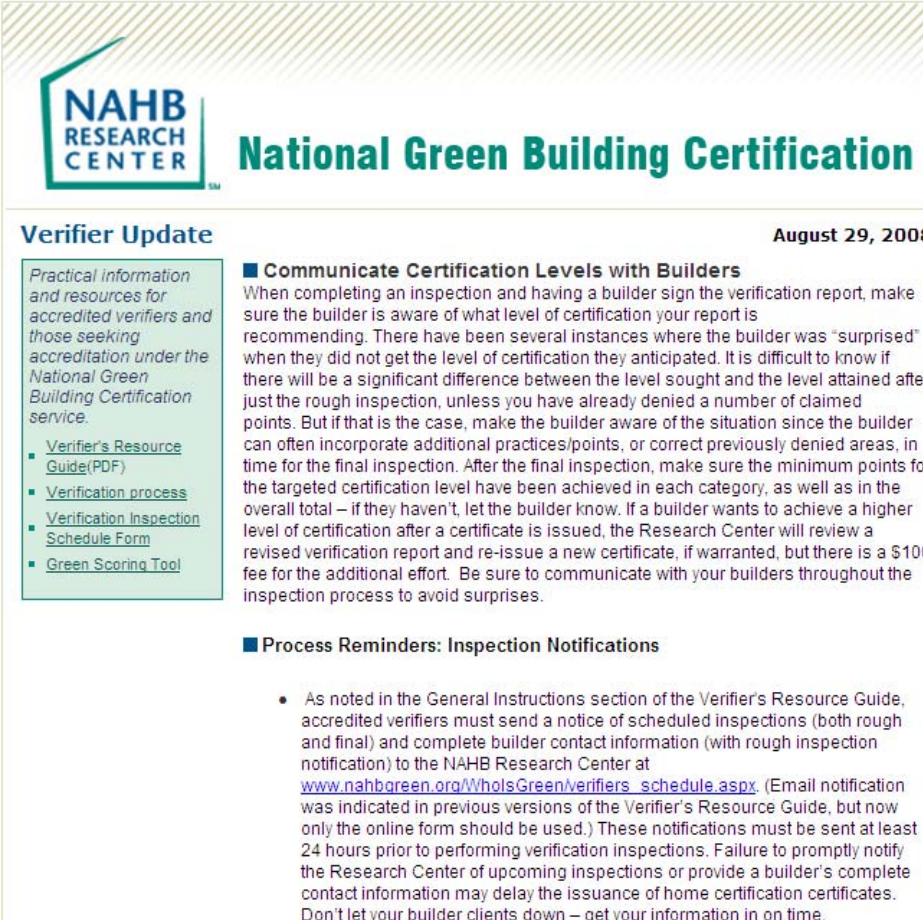
- ***Verifier's Resource Guide***
 - copyright protected; only for use by accredited verifiers



- **Verification Report** – copyright protected; only for use by accredited verifiers

National Green Home Certification Program Verification Report					
2					
3	Builder/Applicant:				
4	Mailing (physical) Address with Zip Code of Home:				
5	Community/Lot#:				
6	*Suggested inspection at R=rough, F=final, D=document review, C=once per year if community				
8	After inspecting/verifying enter points awarded. If points are denied enter "0" and enter note.				
9	Section 1: Lot Design, Preparation, and Development				
Points avail	Requirements	*Inspection at	Points Claimed	Points Awarded	Notes
11	1.1 Select the site: Select the site to minimize environmental impact.				
12	1.1.1 Avoid environmentally sensitive areas.	D			
13	1.1.2 Choose an infill site.	R			
14	1.1.3 Choose a Greyfield site.	D			
15	1.1.4 Choose an EPA-recognized Brownfield.	D			
16	1.2 Identify goals with your team.				
17	1.2.1 Establish a knowledgeable team.	D			
18	1.3 Design the site: Minimize env impacts; protect, restore, and enhance.				
19	1.3.1 Conserve natural resources.	C/D			
20	1.3.2 Site the home and other built features to optimize solar resource.	D			
21	1.3.3 Minimize slope disturbance.	D/R			
22	1.3.4 Minimize soil disturbance and erosion.	R			
23	1.3.5 Manage storm water using low impact development.	F			
24	1.3.6 Devise landscape plans to limit water and energy demand while preserving or enhancing the natural environment.	F			
25	1.3.7 Maintain wildlife habitat.	F			
26	1.4 Develop the site. Minimize environmental intrusion during construction.				
27	1.4.1 Onsite supervision and coordination during clearing, grading, trenching	R			
28	1.4.2 Conserve existing onsite vegetation.	R			
29	1.4.3 Minimize onsite soil disturbance and erosion.	R			
30	1.5 Innovative options (Seek to obtain local waivers/variances)				
31	1.5.1 Share driveways or parking.	F			
32	1.5.2 Other (specify).				
33	Total Points for Section 1				

- **Verifier Update**; bi-weekly email with program updates, process reminders, policy issues



The screenshot shows an email header for the NAHB Research Center's National Green Building Certification. The subject is "Verifier Update" dated August 29, 2008. The email content includes a sidebar with links to resources like the Verifier's Resource Guide, Verification process, Verification Inspection Schedule Form, and Green Scoring Tool. The main body contains two sections: "Communicate Certification Levels with Builders" and "Process Reminders: Inspection Notifications".

NAHB RESEARCH CENTER National Green Building Certification

Verifier Update August 29, 2008

Practical information and resources for accredited verifiers and those seeking accreditation under the National Green Building Certification service.

- [Verifier's Resource Guide\(PDF\)](#)
- [Verification process](#)
- [Verification Inspection Schedule Form](#)
- [Green Scoring Tool](#)

■ **Communicate Certification Levels with Builders**

When completing an inspection and having a builder sign the verification report, make sure the builder is aware of what level of certification your report is recommending. There have been several instances where the builder was "surprised" when they did not get the level of certification they anticipated. It is difficult to know if there will be a significant difference between the level sought and the level attained after just the rough inspection, unless you have already denied a number of claimed points. But if that is the case, make the builder aware of the situation since the builder can often incorporate additional practices/points, or correct previously denied areas, in time for the final inspection. After the final inspection, make sure the minimum points for the targeted certification level have been achieved in each category, as well as in the overall total – if they haven't, let the builder know. If a builder wants to achieve a higher level of certification after a certificate is issued, the Research Center will review a revised verification report and re-issue a new certificate, if warranted, but there is a \$100 fee for the additional effort. Be sure to communicate with your builders throughout the inspection process to avoid surprises.

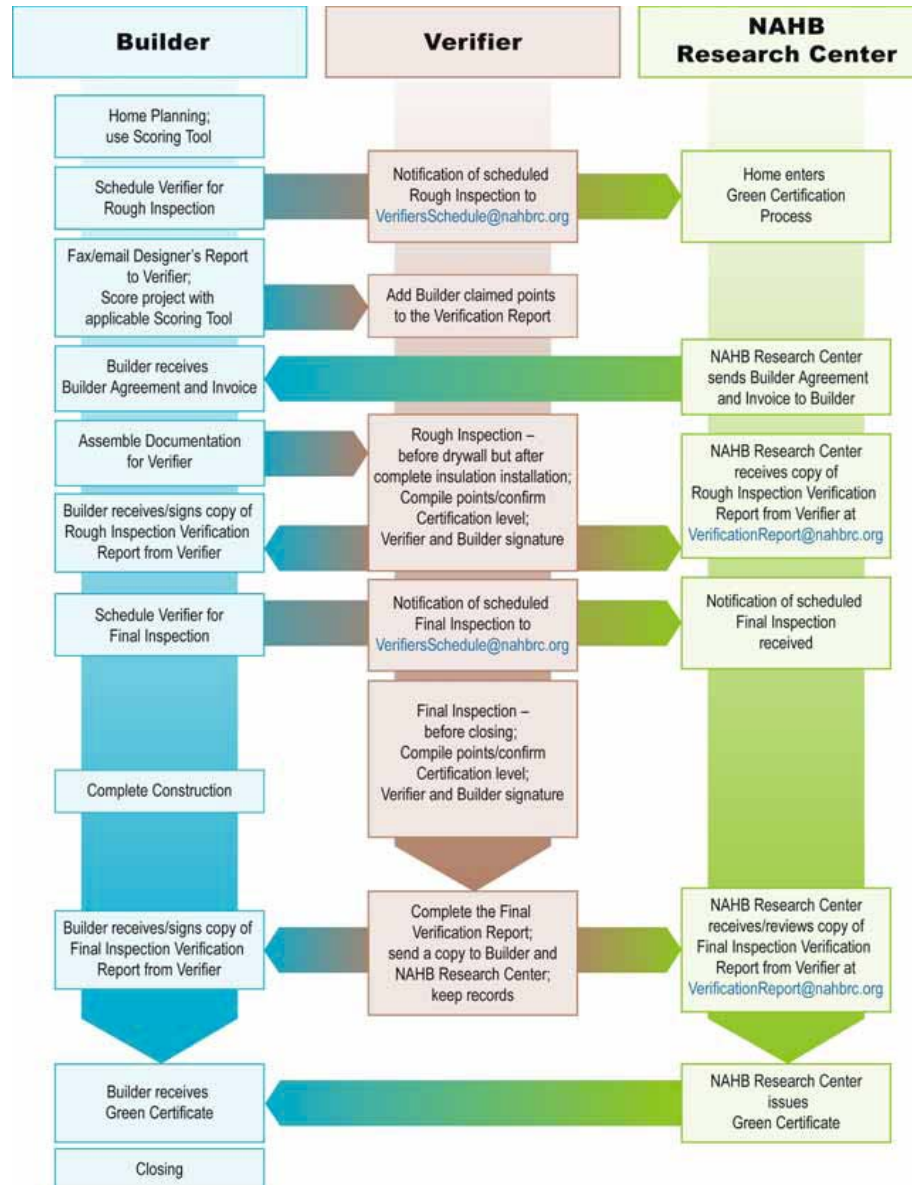
■ **Process Reminders: Inspection Notifications**

- As noted in the General Instructions section of the Verifier's Resource Guide, accredited verifiers must send a notice of scheduled inspections (both rough and final) and complete builder contact information (with rough inspection notification) to the NAHB Research Center at www.nahbgreen.org/WholsGreen/verifiers_schedule.aspx. (Email notification was indicated in previous versions of the Verifier's Resource Guide, but now only the online form should be used.) These notifications must be sent at least 24 hours prior to performing verification inspections. Failure to promptly notify the Research Center of upcoming inspections or provide a builder's complete contact information may delay the issuance of home certification certificates. Don't let your builder clients down – get your information in on time.

● **Process Overview – Green Buildings**

- 100% Verification
 - Sampling allowed only for limited inspection/performance testing (e.g. blower door)
- Verification by an NAHB Research Center accredited verifier
- Verification inspections required at rough and final
- Verifiers may provide design consulting assistance to builder but this is not required
- Multifamily buildings will be certified by building, not by unit
- Builder agreement required (once for all houses)

Evaluation & Certification Process, cont.





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](#)

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*.

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

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





Register for the NAHB Green Scoring Tool

Who should use the Green Scoring Tool?

Anyone can score their homes with the Tool. It is of particular interest to builders with no local Green Building Program and to high production builders building homes across markets.

There may already be a program certifying green homes in your area. Be sure to check the list of [Local Green Building Programs](#), since their guidelines may be better suited to your area.

Why do I need to register to use the Green Scoring Tool?

Registering allows you to store and track your projects online. It allows us to contact you in case there is a problem with your account.

What will you do with my information?

Your information is used for market research only. We will not share or sell your information beyond the NAHB organization.

Why should I use the Green Scoring Tool?

The Green Scoring Tool allows you to compare your homes to the requirements of the NAHB Model Green Home Building Guidelines. It lets you see if you are ready to submit your homes for certification. By using this online tool, you can make changes to existing projects, compare scores of your projects, and much more.

Step 1 of 2: Background Information

** = required field*

*First Name:

*Last Name:

Company:

Tell us who you are:

Are you a member of a local Home Builder Association?

Yes No

Which Home Builder Association do you belong to?

Would you like to receive updates about the National Green Building Program?

Yes No

Next



Projects

Project Name	Score	Level	Options
test run tool review	10		View Report Resume Scoring Tool View Score Summary Edit Project Details Copy Project Delete Project

Project Name	Score	Level	Options
LCCTC Student Green Home	450	Gold	View Report Resume Scoring Tool View Score Summary Edit Project Details Copy Project Delete Project

Create a New Project

To start a new project, enter a name and description below and click the Create Project button.

* = required field

***Project Location:**

Idaho 

***Project Name:**

Next House

***Project Description:**

This is a first edition
of a Zero Energy House

Create Project

Sample Project Names:

- Stratford Model
- John and Jane Doe's House
- 1234 Main Street

Sample Project Descriptions:

- 1234 Main Street
- 3 BR, 2-1/2 BA, 2500 sf
- Non-ducted HVAC system

Currently, there is no local program in the area of your project; continuing with the National Green Building Program Guidelines is appropriate for scoring your project.

However, there may be local programs in development, so you are encouraged to contact your [local home builders association](#) to see if there may be programs in your area in the near future.

**Next House**

Section Score:

0

0	8	10	12
	Bronze	Silver	Gold

Project Status:

Lot Design	0
Resource Efficiency	0
Energy Efficiency	0
Water Efficiency	0
Indoor Environmental Quality	0
Homeowner Education	0
Global Impact	0

Project Score >>

0	237	311	395
	Bronze	Silver	Gold

Don't forget your 100 additional points!

[Scoring Details](#)

Required Energy Efficiency conditions not met

Lot Design	Resource Efficiency	Energy Efficiency	Water Efficiency	IEQ	Homeowner Education	Global Impact
------------	---------------------	-------------------	------------------	-----	---------------------	---------------

Section Page **0** of **11**

Introduction - Lot Design

Resource-efficient site design and development practices help reduce the environmental impacts and improve the energy performance of new housing. For instance, site design principles such as saving trees, constructing onsite storm water retention/infiltration features, and orienting houses to maximize passive solar heating and cooling are basic processes used in the design and construction of green homes.

Required Minimum Points for this Section





Key Resources for this Section

- [American Society of Consulting Arborists](#)
- [American Society of Landscape Architects](#)
- [Brownfields Cleanup and Redevelopment](#), U.S. Environmental Protection Agency
- [Builders' and Municipal Guides to Low Impact Development](#)

Point Opportunities in this Section:

- [Select the Site](#)
- [Identify Goals with Team](#)
- [Design Site – Natural and Solar Resources](#)
- [Design Site – Minimize Slope and Soil Disturbance](#)
- [Design Site – Manage Storm Water](#)
- [Design Site – Limit water and energy demand](#)
- [Design Site – Wildlife Habitat](#)
- [Develop Site – Onsite Supervision](#)
- [Develop Site – Minimize Vegetation and Soil Disturbance](#)
- [Innovative Options](#)
- [Summary - Lot Design](#)


Section Page **0** of **11**[Continue >>](#)

 Required Energy Efficiency conditions not met 

Quick References: 

- [American Society of Landscape Architects](#)
- [American Planning Association](#)
- [Brownfields Cleanup and Redevelopment](#)

Choose an [infill site](#).

Help Tip 

Infill areas are vacant or underutilized lots of land, served by existing physical installations.

	Points Possible	Points Claimed
Infill site selected	9	<input type="checkbox"/>

Write comments here...

[How To Verify Intent](#)
[How To Implement Resources](#)

Choose a [Greyfield](#) site.

	Points Possible	Points Claimed
Greyfield site chosen	7	<input type="checkbox"/>


Write comments here...

[How To Verify Intent](#)
[How To Implement Resources](#)

Choose an EPA-recognized [Brownfield](#).



Scoring Summary

 [Required Energy Efficiency conditions not met](#) 

Bronze Scoring Status

Guiding Principles	Minimum Required Points	Claimed Points	Claimed Points Above Bronze	Point Shortfall
Lot Design Preparation, and Development	8	9	1	
Resource Efficiency	44	0		44
Energy Efficiency	37	0		37
Water Efficiency	6	0		6
Indoor Environmental Quality	32	0		32
Operation, Maintenance, and Homeowner Education	7	0		7
Global Impact	3	0		3
SECTION TOTALS	137	9	1	129
Points Above Bronze	100	--	1	99
TOTAL POINTS	237	9	--	228

Consumer, Community & Builder Benefits

National Green Building Certification

Consumer, Community & Builder Benefits

Consumer Benefits

- **Higher performing than non-certified homes**
- **Confidence home will perform as claimed; independent 3rd-party confirmation**
- **Homeowner education required part of certification**
- **“Bragging Rights”**: green certified to the best program available
- **More than simply energy efficient but green and sustainable**

Community Benefits

- **Reduced impact of development**
- **Incentives for low impact development techniques**
- **Incentives for on-site recycling and re-use of resources**
- **Reduced infrastructure maintenance**
- **Incentives for public transportation and community recycling**

Builder Benefits & Marketing Support

- **Recognition as early adopter for inevitable future of our industry**
- **NAHB-endorsed national program based on national consensus standard**
- **Confidence in credibility of third-party certification; overcome consumer cynicism over definition of “green”**
- **No required consulting costs**
- **Less overall construction costs to implement**
- **Levels the playing field, but provides flexibility for market differentiation**

- **Marketing Support – NAHB**
 - National Brand Recognition
 - Use of NAHB & NAHB Research Center logos/marks in promotional materials
 - NAHB developing National Green Building Program logos & usage agreements for affiliated HBAs, Qualified Projects, and Verifiers



- NAHB developing collateral on green building and green certification for HBAs, Builders

Marketing Support NAHB Research Center

- Certificate for all certified homes
- Optional plaques for certified homes
- Free option to show home on national website

Green Home Certificate

Certified Green Building

This is to signify that the new home at

**123 Main Street
Hometown, USA**

built by
ABC Builder

Anytown, USA

is CERTIFIED as a
Gold Level Green Home



The NAHB Research Center certifies that this house, as originally built, is in substantial conformance with the ICC 700-2008 National Green Building Standard.

Certificate # 00XX

February 6, 2009

Issuance Date

A handwritten signature in blue ink, appearing to read "Michael Luzier".

Michael Luzier
NAHB Research Center President

NAHB Research Center • 400 Prince George's Boulevard • Upper Marlboro, MD 20774 • www.nahbrc.org

This certification is not a representation, warranty, or guarantee of home performance. For details on builder's warranty, consult the builder.

Printed on paper containing 30% post-consumer fibers.

Optional Certification Plaque



Custom made and unique to each certified building

- Optional home listing and photo listed on national website (high-traffic site)

Sample Certified Home Display on National Website

Certification Level: Gold

Location: Bloomington, IN

Builder: Joe Covington Building Co.

Website: www.builderswebsite.com

Description: [Builder to supply text to describe home.]



- Toll-free hotline – support for builders, buyers, verifiers
- Other collateral – downloadable brochures, press release templates, fact sheets, etc.; can be customized by each participating builder
- Use of NAHB Research Center corporate logo and CERTIFIED mark

Third-party green home certification provided by



Look for the mark!

This certification mark means a home has been independently verified by an accredited third-party and received National Green Building Certification.

Additional Program Enhancements

- “Green Approved” program
 - Building Systems; Modularity; Products
 - Pre-approved points for green products

NAHB Research Center's “Green Approved”

Goals:

- **Reduce “green-washing”**
- **Simplify specifications and field inspections**
- **Help the builder and the verifier with easily accessible validated green product information**

Examples of Green Approved

- Chapter 5 - Lot Design, Preparation, and Development
- Chapter 6 - Resource Efficiency
- Chapter 6 Introduction
- 601 Quality of Construction Materials and Waste
- 602 Enhanced Durability and Reduced Maintenance
- 603 Reused or Salvaged Materials
- 604 Recycled-Content Building Materials
- 605 Recycled Construction Waste
- 606 Renewable Materials
- 606.1 Biobased products
- 606.2 Wood-based products
- 606.3 Manufacturing energy
- 607 Resource-Efficient Materials
- 608 Indigenous Materials
- 609 Life Cycle Analysis
- 610 Innovative Practices
- Chapter 6 Summary
- Chapter 7 - Energy Efficiency
- Chapter 8 - Water Efficiency
- Chapter 9 - Indoor Environmental Quality

606.1 Biobased products

606.1
The following biobased products are used:

- a. certified solid wood in accordance with Section [606.2](#)
- b. engineered wood
- c. bamboo
- d. cotton
- e. cork
- f. straw
- g. natural fiber products made from crops (soy-based, corn-based)
- h. products with the minimum biobased contents of the [USDA 7 CFR Part 2902](#)
- i. other biobased materials with a minimum of 50% biobased content (by weight or volume)

8 points maximum awarded.

	Points Possible	Points Claimed
Two types of biobased materials are used, each for more than 0.5% of the project's projected building material cost.	3	<input type="checkbox"/>
Two types of biobased materials are used, each for more than 1% of the project's projected building material cost.	6	<input type="checkbox"/>
3rd type of biobased material used for more than 0.5% of the project's projected building cost.	1	<input type="checkbox"/>
4th type of biobased material used for more than 0.5% of the project's projected building cost.	1	<input type="checkbox"/>

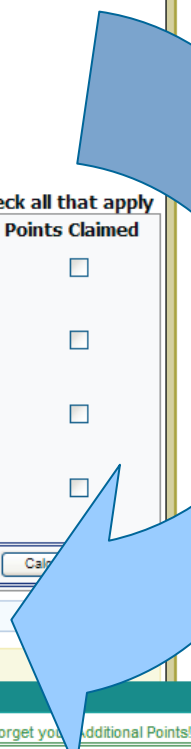
Check all that apply

Points Recorded: **0** Calc

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

[Show Your Comments](#)

Click Here for
"Green
Approved
Product" Link



Examples of Pre-Approved Manufacturer Page



GREEN APPROVED PRODUCTS *for the* National Green Building Standard

[Home](#) | [About Us](#) | [Get Listed](#) | [Contact Us](#)

Approved Products for 606.1, National Green Building Standard

Below you will find manufacturers with products approved for this practice.

606.1: Biobased products are used. 8 points maximum awarded.

iLevel by Weyerhaeuser

8 Total Green Approved Products ([go to list](#))

[Show 6 product\(s\) approved for this practice](#)

ABC Carpet Company

2 Total Green Approved Products ([go to list](#))

[Show 2 product\(s\) approved for this practice](#)

Green Approved Products is sponsored by the [NAHB Research Center](#)
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Examples of Pre-Approved Product Page



GREEN APPROVED PRODUCTS *for the* National Green Building Standard

[Home](#) | [About Us](#) | [Get Listed](#) | [Contact Us](#)

Approved Products for 606.1, National Green Building Standard

Below you will find manufacturers with products approved for this practice.

606.1: Biobased products are used. 8 points maximum awarded.

iLevel by Weyerhaeuser

8 Total Green Approved Products ([go to list](#))

Hide 6 product(s) approved for this practice

Product Name	Maximum Possible Points for this Practice	Maximum Possible Points for the Standard
Weyerhaeuser Lumber, iLevel Framers Series Lumber	6	10
iLevel Trus Joist TJI Joist, iLevel Trus Joist TJO Joist	6	17
iLevel Trus Joist StrandGuard TimberStrand LSL	6	22
iLevel Shear Brace	3	16
iLevel Edge, iLevel Edge Gold, iLevel Radiant Barrier Sheathing, Weyerhaeuser Sheathing	6	24
iLevel Trus Joist TimberStrand LSL, iLevel Trus Joist Parallam PSL, iLevel Trus Joist Microllam LVL	6	16

ABC Carpet Company

2 Total Green Approved Products ([go to list](#))

Show 2 product(s) approved for this practice

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Examples of Pre-Approved Points Page



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Approved Products - National Green Building Standard

Product Name: [Weyerhaeuser Lumber, iLevel Framing Series Lumber](#)

Product Manufacturer: [iLevel by Weyerhaeuser](#)

Practice Number	Practice	Points Available with this Product	Additional Conditions of Use to Earn Points	Product Features
606.1	Biobased products are used. 8 points maximum awarded.	6	To earn 6 points this product must be at least 1% of the construction material cost AND another bio-based product, also at 1% of material cost, must be used. Lesser points are available at the 0.5% level.	iLevel products are made from trees, a natural and renewable resource.
606.2(2)	A minimum of 2 wood or wood-based products used for major elements are certified to the requirements of a recognized product program.	4	To earn 4 points a second certified wood product must also be used as a major element for 4 points. Lesser points available for use with a minor element.	iLevel manufacturing facilities in the U.S. and Canada are independently certified to sustainable forestry standards as well as all Weyerhaeuser timberlands, ensuring the availability of forests for future generations.

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Questions?

- **Don Carr**
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- dcarr@nahbrc.org
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- **National Green Building
Program Hotline**
- **(877) NAHB-GRN**
- [**www.nahbgreen.org**](http://www.nahbgreen.org)



APPENDIX

Some of the Technical Details

- **Green Building Guidelines**

- Certification is still available to requirements of NAHB Model Green Home Building Guidelines (Guidelines)
- Guidelines defined green in 2005
- Green goes beyond energy – 7 green principles in Guidelines
- Guidelines are ENERGY STAR compatible
- Includes all market segments (affordable, moderate priced, move-up)
- Eventually certification will be phased out; the Guidelines will not be updated

Points Required for Homes Certified Under the Guidelines

Points Required for the 3 different levels of Green Building			
Category	Bronze	Silver	Gold
Lot Design, Preparation, and Development	8	10	12
Resource Efficiency	44	60	77
Energy Efficiency	37	62	100
Water Efficiency	6	13	19
Indoor Environmental Quality	32	54	72
Operation, Maintenance, and Homeowner Education	7	7	9
Global Impact	3	5	6
Add'l points from sections of your choice	100	100	100
Totals	237	311	395

Defining Green

- **National Green Building Program – History**
 - **1995:** Green Building gained more mainstream industry interest
 - **2005:** NAHB Research Center developed NAHB Model Green Home Building Guidelines per NAHB's request
 - **1995-2008:** 50+ local green building programs developed and implemented, many were Guidelines-based

Defining Green, cont.

- **2007:** NAHB and ICC announce partnership to develop consensus-based National Green Building Standard
- **2008:** National Green Building Program and Certification (based on Guidelines) launched at 2008 International Builders' Show
- **2009:** ANSI National Green Building Standard Approved expanding the national certification to include developments, multi-family, renovations and additions

NAHB Research Center Overview

- **Established in 1964**
- **Wholly-owned, for-profit subsidiary of NAHB**
- **Mission**
 - To improve the quality, affordability, durability, and environmental performance of housing
- **Methodology**
 - Promote innovation in home building products/systems, technology, and construction processes

● Capabilities

- Market Research
 - Quantitative
 - Qualitative
- Lab Testing & Certification
 - Third-party accredited
 - Product Certifications
 - Quality Management Certifications
- Field Evaluations & Demonstrations
- Code Compliance
- Information Dissemination
 - ToolBase

- **Our Team** - *85 employees with expertise in all aspects of home building science & research*
 - Mechanical, Structural, Electrical Engineers
 - Land Planners
 - Wood Scientists
 - Economists
 - Architects
 - Builders/Remodelers
 - Lab Technicians
 - Market Research Experts

- **Laboratory Credentials = business culture of rigor and credibility**
 - IAS (*International Accreditation Service*)
 - *Test Lab (ISO 17025)*
 - *Inspection Agency (ISO 17020)*
 - NIST – NVLAP (*National Voluntary Laboratory Accreditation Program*)
 - *Test Lab (ISO 17025)*
 - U.S. Department of Housing & Urban Development
 - *Use of Materials Bulletin Administrator*
 - IAPMO (*International Association of Plumbing and Mechanical Officials*)
 - *Recognized Test Lab*
 - City of Los Angeles, CA
 - *Testing Agency License*
 - Others