

# USE YOUR JUDGEMENT, BE A VERIFIER

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LEED H Provider QAD, NC Healthy Built Homes  
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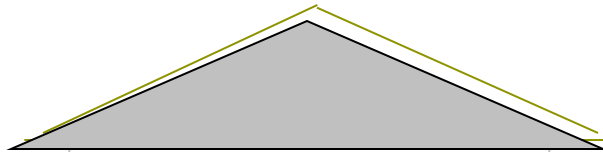
Southern Energy Management



# We help builders create a green home roadmap

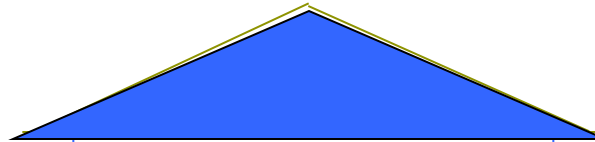


# What are Green Homes?

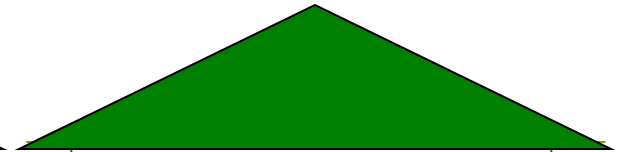


- ✓ Meets Building Code
- ✓ Structurally Safe and Sound

**Typical Home**



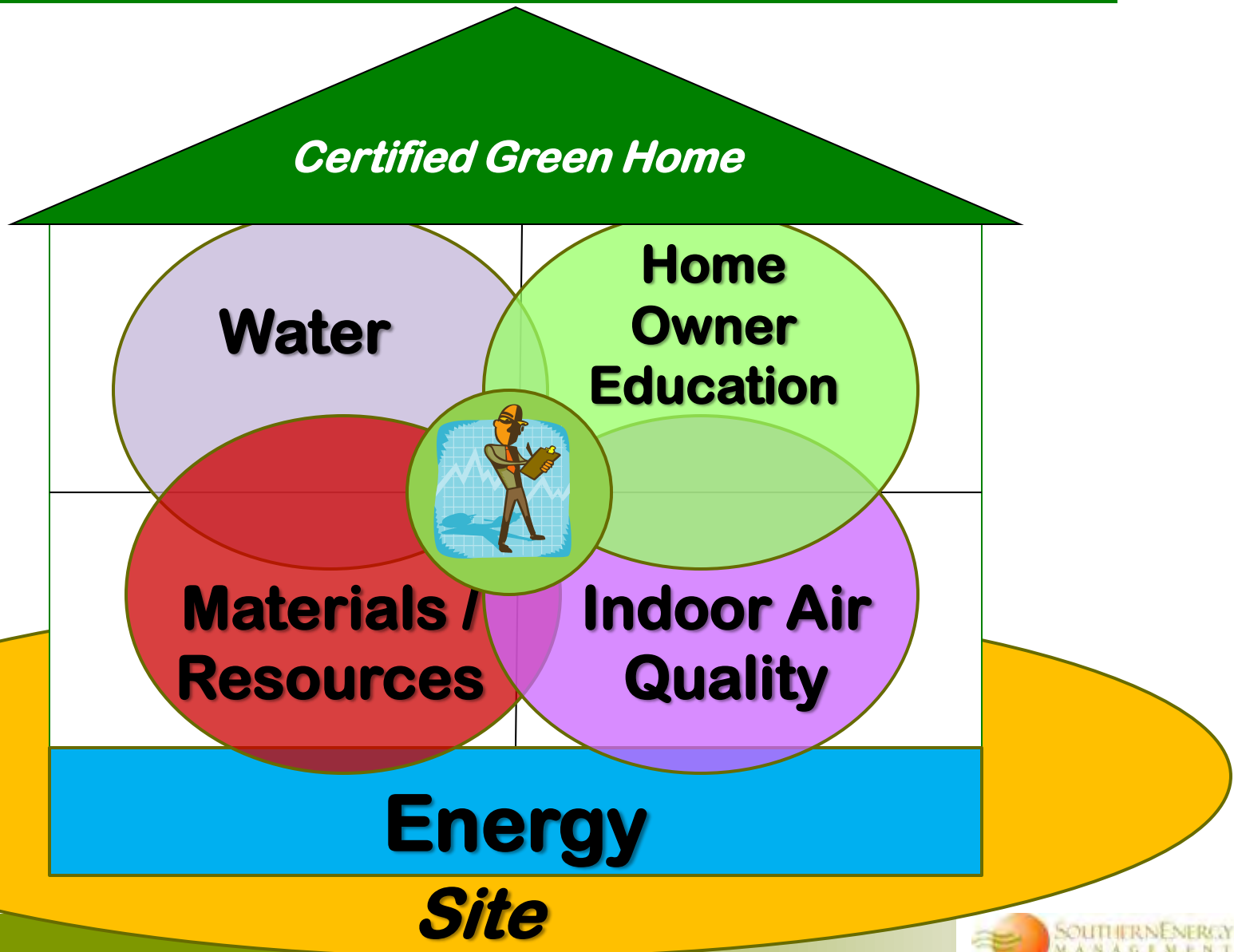
- ✓ Exceeds Building Code by 15% or more
- ✓ Energy Efficient
- ✓ Healthy & Safe
- ✓ Durable



- ✓ Energy Efficient
- ✓ Healthy & Safe
- ✓ Durable
- ✓ Water Efficient
- ✓ Environmentally Responsive
- ✓ Sustainable Community



# What are Green Homes?





# 3 Things You Need to Know

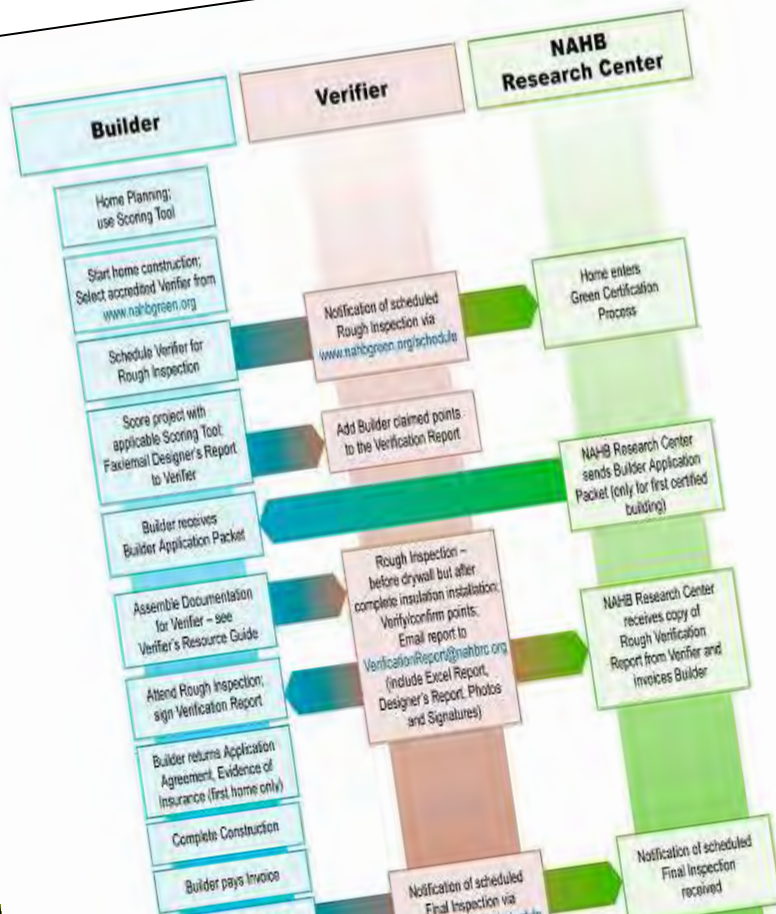
- The Process
  - Your Time
- The Standard

# The Process

- Builder completes scoring spreadsheet
- Builder hires verifier before construction start
- Verifier meets with builder to review scoring
- Builder begins construction
- Verify at rough – take picture – get signature – submit
- Verify at final – take picture – get signature – submit
- Collect any documentation needed for items that you were not able to site verify
- Submit final Verification Report, pic, and signature sheet to NAHB RC

# Tools and Tips

## Use Graphs and Charts



## and Step by Step

### Builder Process for NAHB Green Building Certification

Builders interested in certifying to the National Home Builders Association Green Building Program should follow the steps below. Additional info available at [www.nahbgreen.org](http://www.nahbgreen.org)

- Step 1: Hire an **accredited verifier**.
- Step 2: Score the building using the online **Green Scoring Tool**.
- Step 3: Export **final Designer's Report** from Green Scoring Tool and save locally as an Excel file.

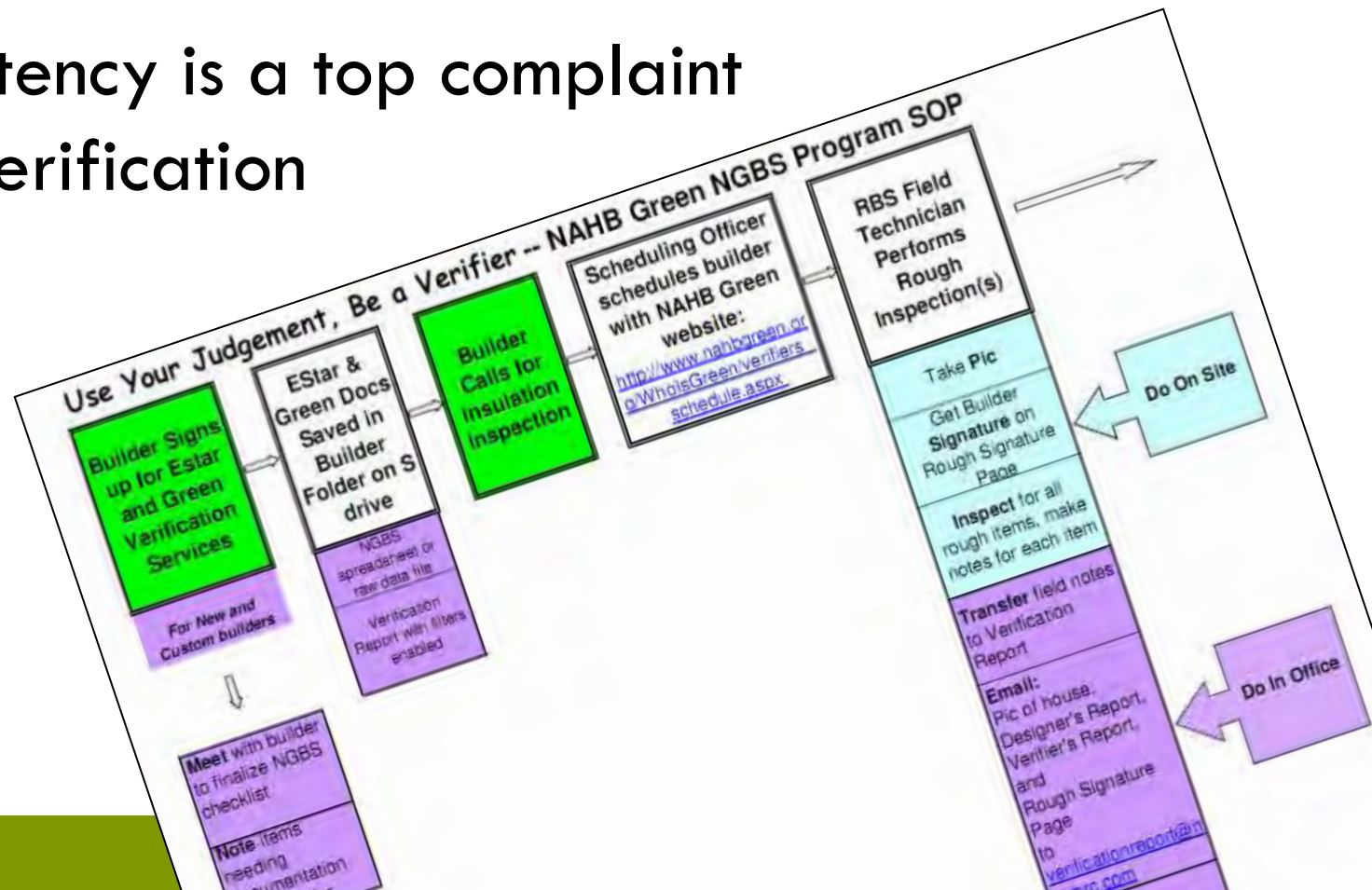
If there is not an accredited verifier listed for your area, contact the National Green Building Hotline - (877) NAHB-GRN or [contacting us via e-mail](mailto:certification@nahbrc.org).

- Step 4: Schedule rough inspection.
- Step 5: Submit required evidence of insurance. Builder's application packet is available by calling (877) NAHB GRN or [contacting us via e-mail](mailto:certification@nahbrc.org). Only one Agreement is required for each builder regardless of how many buildings are ultimately submitted for certification.
- Step 6: Meet with verifier after rough inspection to sign the verification report which will be sent to NAHB Research Center for review. There are Verification Reports for the Guidelines and the Standard.
- Step 7: Submit green building certification fee (\$200 per building for NAHB members, \$500 for non-members, multi-unit building fee +\$20/unit).
- Step 8: Schedule final inspection with verifier and sign final report.
- Step 9: After final inspection, including certification fee, NAHB Research Center will schedule final inspection.



# Internal Process

- Are you a Company of 1 or 10+?
- Consistency is a top complaint with Verification



# Your Time

- **Green Verification can be a time bandit**
- Know your:
  - Estimated Hours to review checklist with Builder  
**1hr – 4hrs**
  - Time on site (each inspection)  
**.5hrs – 1.5hrs**
  - Time in office (before and after inspection)  
**1 hr**
  - Time chasing/reviewing documentation  
**2hrs – 4hrs**



3/2/2011

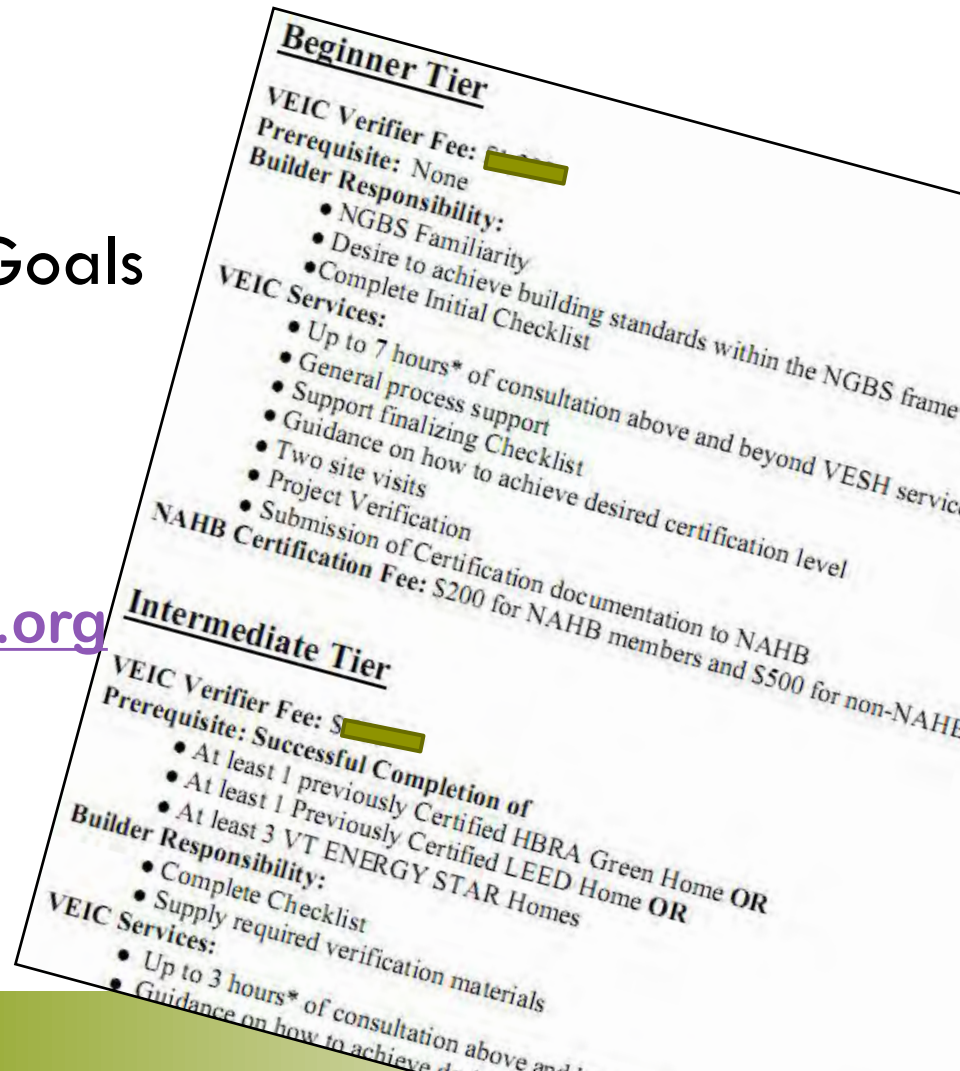


3/2/2011

# Considering the Contract

- Tiered Approach
  - Based on Experience
  - Based on Certification Goals
- Good example:

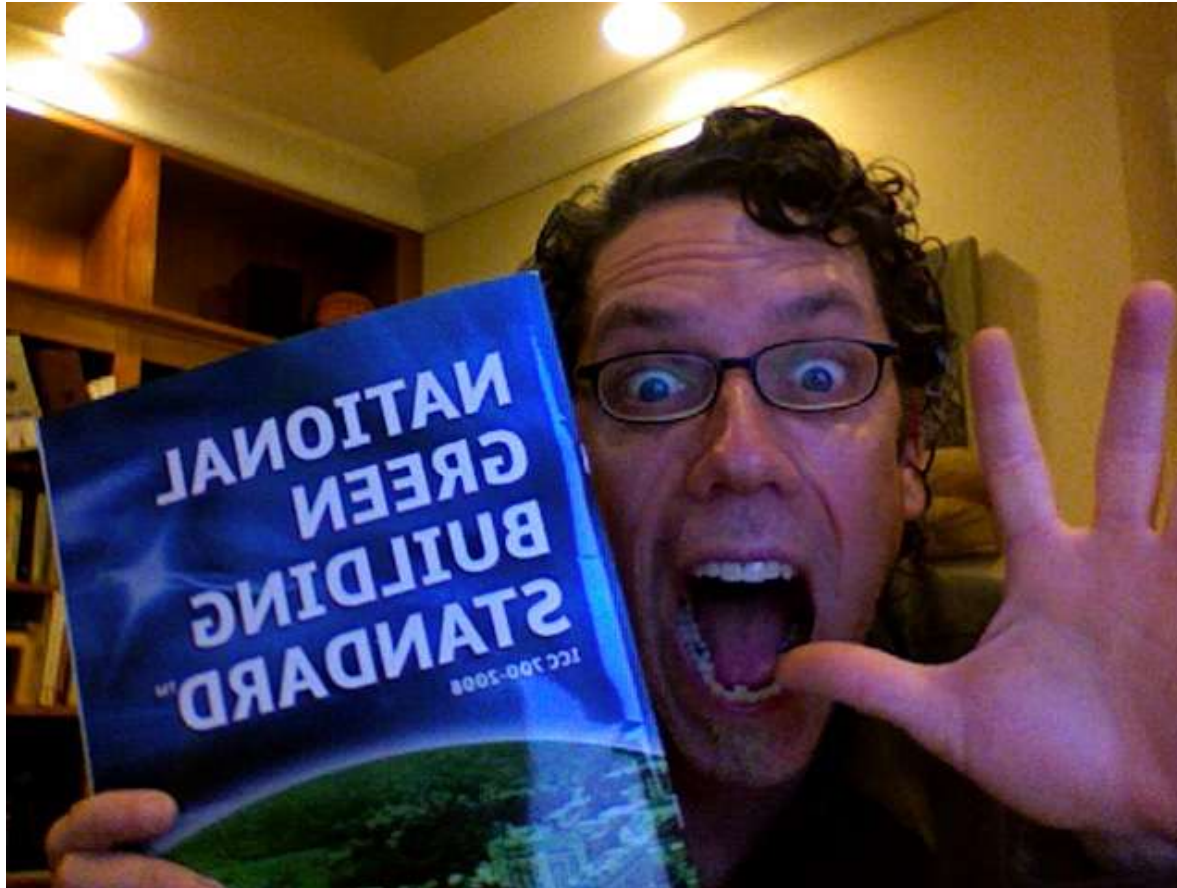
[www.vermontgreenhomealliance.org](http://www.vermontgreenhomealliance.org)



# Considering the contract

- Be clear about services, hours, and fees
- Set a deadline for documentation submission
- Watch out for Scope Creep!
  - ▣ Higher level certifications; New green builders
- Get signature on file before beginning work
- Include NGBS Program certification fee disclaimer (not included in your fees)

# The Standard



Don't worry, its not as bad as it looks... ok just a little...

# Tools and resources



<http://www.nahbgreen.org/>



# Tough Spots for Builders

- **For Points**

- Chapter 5 (Site)
- Chapter 8 (Water)

- **For Comprehension**

- Chapter 6 (Resource Efficiency)
- Chapter 9 (Indoor Quality)
- Points left on the table that you can help find

# www.greenapprovedproducts.com

Approved Products for the National Green Building Standard - Windows Internet Explorer

http://www.greenapprovedproducts.com/

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## GREEN APPROVED PRODUCTS

for the *National Green Building Standard™*

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### Certifying green homes just got one step easier

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



[Score Your Green Project](#)

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# Different Project Types

- **Single Family New Construction**

- Note: No sampling protocol; Energy Star part can be on sampling protocol, but every home must be visited and verified for green

- **Multifamily**

- Interest increasing; Cost competitive with other certification programs

- **Existing Homes**

- A value added service to an Energy Retrofit or Historic Remodel

# Become an Excel Master

NCSU Chancellors House NGBS VerificationReport\_Advanced.xls [Compatibility Mode] - Microsoft Excel

Home Insert Page Layout Formulas Data Review View Developer

CertificationLevel Silver

1 RF VERIFICATION REPORT - NATIONAL GREEN BUILDING STANDARD Import Design Data

2 RF Builder/Applicant: Ruffy Homes

3 RF Mailing (physical) Address w/ Zip Code of Home: raleigh, NC

4 RF Community/Lot #: NCSU Chancellor's House Target Certification Level= Silver

5 RF Type of building: Single-Family Climate Zone = 4 12/10/2010 Rev. Date

R	GREEN BUILDING PRACTICES	Points Available	Pts Claimed on Designer Report		POINTS AWARDED		VERIFIER NOTES
			AT ROUG	AT FINA	AT ROUG	AT FINA	
x	<b>500 LOT DESIGN, PREPARATION AND DEVELOPMENT</b>						
x	<b>501 LOT SELECTION</b>						
R	501.1 Lot. The lot is selected to minimize environmental impact by one or more of the following:						
R	(1) An infill lot is selected	4	0				
R	(2) A greyfield lot, OR an EPA-recognized brownfield lot	5	0				
R	501.2 Mass Transportation: A range of mass transportation choices are promoted by one or more of the following:						
R	(1) Access to mass transit	3	0				
R	(2) Pedestrian activity promoted	3	0				
R	(3) Community resources (6 or more) close by	3	0				
x	<b>502 PROJECT TEAM, MISSION STATEMENT AND GOALS</b>						
P R	502.1 A knowledgeable team & mission statement.	4	4				
x	<b>503 LOT DESIGN</b>						
RF	503.1 Natural resources on the building site are conserved by one or more of the following:						
P R	(1) A natural resources inventory	5	5				
P R	(2) Conservation of high priority resources	6	6				
R	(3) Protected under the direction of a qualified professional	4	0				
P R	(4) Basic training natural resource protection	4	0				

Copyright Instructions Verification Report Rough Signatures Final Signatures Builder's Challenge Summary Designer Comments

Ready SEM GB presentation april 09.ppt [Compatibility Mode] 100%

start RESNET 2011 Chancellors House Use your judgement... SEM GB presentation... Microsoft Excel - NCSU...

# Verified Green



- Team Approach
- When in doubt, be conservative
- Ask the NAHB Research Center