



Building America

Stump the Building Science Chump Builder Panel

April 5, 2017

U.S. Department of Energy

Lena Burkett

Panelists

Steve Brown – Carl Franklin Homes

Todd Usher – Addison Homes

Moderator:

Linh Truong– National Renewable Energy Laboratory

Some Housekeeping Items

Two Options for Audio (select audio mode):

1. Listen through your computer.

Please select the “mic and speakers” radio button on the right hand audio pane display

2. Listen by telephone.

Please select the “telephone” option in the right-hand display, and a phone number and PIN will display.

3. Panelists - Please mute your audio device when not presenting

4. Technical Difficulties: Contact the GoToWebinars Help Desk: 888.259.3826

Some Housekeeping Items (cont'd)

To ask a question:

Select the 'questions' pane on your screen and type in your question.

If you are having difficulty viewing the materials through the webinar portal:

You may find PDF copies of the presentation at the website listed here and you may follow along as our speaker presents. Today's webinar is being recorded and the recording will be available on the DOE YouTube channel within a few weeks.

<http://energy.gov/eere/buildings/building-america-meetings#current>

Agenda

- ✓ Welcome and Introductory Remarks
- ✓ Overview of Building America (buildingamerica.gov)
 - Linh Truong - National Renewable Energy Laboratory
- ✓ Speaker Panel
 - Steve Brown – Carl Franklin Homes
 - Todd Usher – Addison Homes
- ✓ Questions and Answers
 - ✓ Moderated by Lena Burkett – U.S. Department of Energy
- ✓ Closing Remarks

Building America

Building America Website:

- Program information
- Top Innovations
- Climate-specific case studies
- *Building America Update* newsletter
- Building America Solution Center
- Publications Library



www.buildingamerica.gov

Steve Brown, Owner, Carl Franklin Homes



As a third-generation lumberman and builder with more than 40 years of experience, Steve has worked in the construction business for most of his life. In 1982 he began building homes in the Dallas area, and in 1994 he changed the course of his construction business to build only extreme, energy-efficient homes using structural insulated panels as the primary building enclosure.

He has been featured on the Disney Channel and HGTV and has won numerous energy building awards. He serves as the President of Green Extreme Homes, CDC, and on the board of Plano Housing Corporation; both of these nonprofits perform deep rehabs and new construction under the DOE Zero Energy Ready Home guidelines. He also serves as a technical advisor for the Enterprise Foundation's "Green Communities Criteria."

Todd Usher, Founder/President, Addison Homes



The first builder in the United States to earn the National Association of Home Builders' Master Certified Green Professional designation, Todd holds a variety of industry credentials including EarthCraft House™ Technical Advisor, Energy Star® home energy rater, LEED® Accredited Professional, LEED for Homes® Green Rater, National Green Building Program™ Accredited Verifier for the NAHB Research Center, Certified Aging in Place Specialist, Graduate Master Builder and South Carolina Certified Master Builder.

He served as President of the Home Builders Association of Greenville in 2008 and is an NAHB National Director and South Carolina HBA Education Chairman. He serves on the Industry Advisory Board for Clemson University's Department of Construction Science and Management, where he encourages the next generation of builders to pursue green building, and he is part of the Best Practices Research Alliance.

Stump the Building Science Chump: Steve Brown and Todd Usher



To ask a question:

Select the 'questions'
pane on your screen
and type in your
question.



Question

At a meeting recently the question came up regarding how important and what is the value of correct sizing on heating systems with regards to newer high efficiency systems? Since the off-cycle losses are minimized by the more efficient technology what other benefits can be achieved by correctly sizing equipment? Systems that advertise themselves as high on comfort seem to be deliberately building in short cycling to minimize temperature swings.

Stump the Building Science Chump: Steve Brown and Todd Usher



To ask a question:

Select the 'questions'
pane on your screen
and type in your
question.



Question

How really important is it to float on furring strips horizontal lap cement board siding above the underlying Zip sheathing in order to provide a drainage plain behind the siding in our Zone 4 location? Seems like we are just adding another technical step to siding installation to correct a problem we have never experienced. It is not typical in our area so the subs are not used to it, get confused, and want to charge more.

Stump the Building Science Chump: Steve Brown and Todd Usher



To ask a question:

Select the 'questions'
pane on your screen
and type in your
question.



Question

Would a supply-only duct line into an unvented attic or sealed crawlspace be sufficient to manage moisture loads levels in these spaces? The goal is to support the proper design of these assemblies, while eliminating a code-compliance complication (need for a 15-minute thermal barrier or equivalent) when using spray foam in attics or crawlspaces. When allowing the lesser ignition barrier or equivalent performance, all Code Compliance Reports / ESR indicate “Air in the attic or crawl space is not circulated to other parts of the building”.

Stump the Building Science Chump: Steve Brown and Todd Usher



To ask a question:

Select the 'questions'
pane on your screen
and type in your
question.



Question

Can RedGard be used in lieu of a 6mil poly under a vinyl flooring product when installed over a slab on grade?

Stump the Building Science Chump: Steve Brown and Todd Usher



To ask a question:

Select the 'questions'
pane on your screen
and type in your
question.



Building America Newsletter

Visit the Meetings page at:

<http://energy.gov/eere/buildings/building-america-meetings#current>

Subscribe to notices about webinars and other news at:

<http://energy.gov/eere/buildings/subscribe-building-america-updates>

Thank You!

PDF copies of the presentations in this webinar are available at:

<http://energy.gov/eere/buildings/building-america-meetings#current>

Visit: *www.buildingamerica.gov*

