

## Development of Moisture Management Instructional Videos

A series of web-based videos is being developed to meet the challenge of keeping the housing industry current on changes in building code requirements and construction techniques. The instructional videos will focus on illustrating construction techniques that minimize moisture-related performance issues in the design and construction of wood-framed wall systems. Three topics will be explored in the video mini-series:

- An overview of the building enclosure
- Drainage and drying methods for absorptive cladding wall systems
- Wall system components: flashing, water- and air-resistant barriers, and insulation

### Background

The Building Products Issues Committee of the National Association of Home Builders (NAHB) has studied moisture-related problems in the housing industry for several years. This recurring theme is common to a variety of cladding types and climatic regions nationally. Building code requirements have changed in response to the need for more robust weather resistance performance of exterior envelopes. Product specifications and performance requirements have changed, as well.

### Objective

The objective of this project is to develop instructional videos that can be used for professional development and continuing education within the housing industry. The videos will be deployed on the website of the Forest Products Laboratory Advanced Housing Research

Center to educate visitors and provide a brief introduction to construction techniques that improve the performance of wall systems. The videos will also be posted on the NAHB Research Center website ([www.toolbase.org](http://www.toolbase.org)), and NAHB will distribute the videos through their education network.

### Approach

We will videotape construction methods and techniques that are known (based on building codes and research) to minimize the potential of moisture-related performance issues in wood-based construction.

### Expected Outcomes

The videos will be a valuable resource for the housing industry and building science community. The video series can be expanded in the future to include other areas of construction (such as roofing, foundations, and plumbing).



**Water management details are critical around windows and for wall assemblies with absorptive claddings such as manufactured stone veneer. Details include water-resistive barriers (building wraps), flashings, and features for promoting drainage and drying of the wall cavity.**

**Timeline**

September 2009—Construction visit for project planning (such as shooting schedule)

September 2009—Storyboards and narration for video (first draft)

October 2009—Start video shooting on construction site

November 2009—Finalize technical narration for the video

January 2010—Complete first phase of video editing (deliver “rough cut” DVD)

February 2010—Complete all additional edits and clarifications of content

April 2010—Deliver final web-based videos and DVD version to FPL

**Cooperators**

U.S. Forest Service, Forest Products Laboratory  
NAHB Research Center

NAHB Building Products Issues Committee

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