

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. Four topics will be explored in the video mini-series:

- An overview of the building enclosure
- Design of the building enclosure
- Construction of the building enclosure (i.e., wall drainage and drying methods, weather-resistant barriers, flashing methods, and insulation)
- Maintenance of the building enclosure

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 Product 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 (i.e., 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 (i.e., roofing, foundations, plumbing).

Timeline

December 2008 Finalize technical content and video production script/schedule
March 2009 Complete video shooting on construction sites (i.e., record content)
May 2009 Complete first phase of video editing (review “rough-cut” DVDs)
July 2009 Complete final-cut versions of the four instructional DVDs

Cooperators

National Association of Home Builders (NAHB)
Research Center
NAHB Building Products Issues Committee
Williams Building Diagnostics, Inc.
U.S. Forest Service, Forest Products Laboratory



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