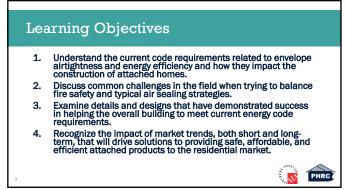


Description As builders and design professionals continue to adapt their As builders and design professionals continue to adapt their details and practices to achieve greater envelope airtightness, specific types of products have become more difficult to work with than others. Attached homes, including duplexes and townhomes, present unique challenges when trying to balance the needs for fire separation and meeting airtightness goals. This session will focus on the solutions that have proven to be successful in the field. A panel of industry experts will share details, products, and designs that help to achieve code compliance, building performance goals, and overall energy efficiency.

overall energy efficiency.

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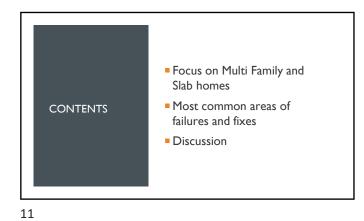
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AIR SEALING THE BUILDING ENVELOPE

COMMON ISSUES TO ADDRESS TO REACH 3ACH



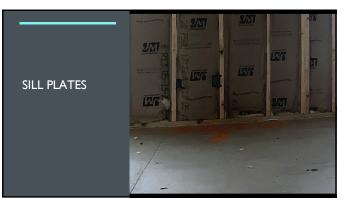




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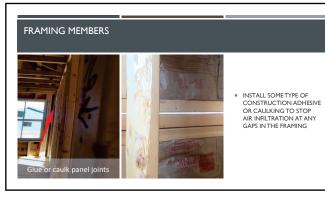




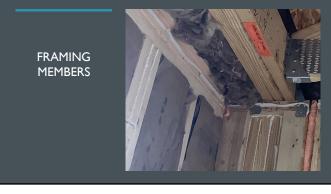


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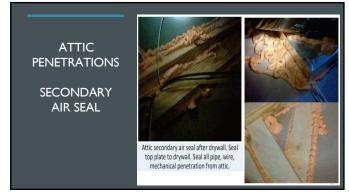
ATTIC PENETRATIONS

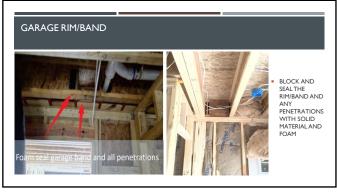




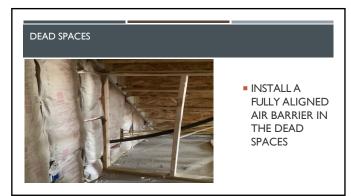


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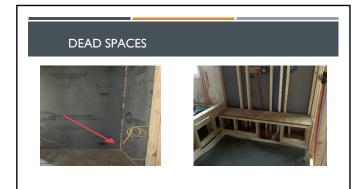
















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Attached Masonry Buildings

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Commercial buildings Mixed use

Image Estateria Community



Attached Masonry Buildings Rowhomes Commercial buildings

Mixed use

44



Common Challenges

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Irregular Surfaces

45



Common Challenges



Common Challenges

- Irregular Surfaces
- Penetrations and Transitions Shared Infrastructure

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- Common Challenges
- Irregular Surfaces Penetrations and Transitions
- Shared Infrastructure
- Historic Preservation

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Common Challenges



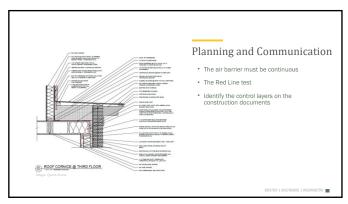
Planning and Communication

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- Know where the air barrier is
- Know what the air barrier is
- Communicate

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Planning and Communication

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- The air barrier must be continuous
- The Red Line test
- Identify the control layers on the construction documents
- Designate an "Air Boss"

53







In Practice: Walls

- Kane, PA
- 3 Stories, 12,000 ft², mixed-use commercial
- Interior air barrier with exterior insulation
- No historic preservation concerns
- Exposed, painted brick finish inside



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In Practice: Walls

- Wilmington, DE
- 2 stories, 1,900 ft², single-family residential
- Interior air barrier with interior insulationLocated in a historic district

×.

• Framed interior, with GWB finish.



















In Practice: Quality Control Diagnostics

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74









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Takeaways

- Airtightness is a planning and communication task.
- Always know what and where the air barrier is.
- Designate an Air Boss

BOSTON | BALTIMORE | WILMINGTON

