



Healthy Walls = Rainscreen & Ventilation

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American Institute of Architects **Keene Outline**

Methods of Wall Construction

- Load bearing masonry
- Barrier wall
- Rainscreen or cavity wall
 - Benefits of rainscreen

Problems

- Moisture issues
- Images of moisture damage

Research and Codes

- Studies on the need for rainscreen
- Building Codes related to moisture management
 - Exterior wall envelope
 - Weather protection
- Rainscreen statement
- Codes including Rainscreen
 - National Building Code of Canada
- BIA cavity wall recommendations and requirements

Component of a Rainscreen System

- Cladding types for rainscreen
- Airspace requirements
- Drainage plane, flashing, and drainage holes

Rainscreen Systems

- What to look for in a rainscreen product
- Important characteristics of drainage mats
- Manufactured stone installation instructions
- Lap siding details
- Fiber cement siding study
 - Images of projects
- Images of rainscreen on projects near you

Brick Cavity Walls

- Main types of airspace
- Brick cavities with insulation and airspace
- Solutions to drain one inch cavity
- What to look for in full wall drainage
- ATI wall drainage test study
 - Mortar bridging
 - Air flow
 - Drainage
- How to drain brick cavity walls



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Learning Objectives

- ✓ Methods of Wall Construction Problems
- ✓ Research and Codes
- ✓ Components of a Rainscreen System
- ✓ Rainscreen Systems
- ✓ Brick Cavity Walls

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