

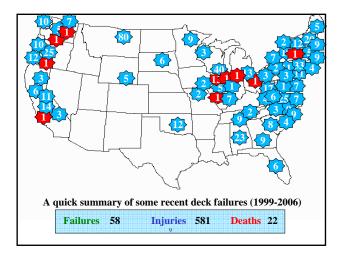
Inspecting Attached Decks: Ledger Board Flashing Details

1:00 PM November 12, 2008

Program Objective

- 1. Provide an understanding of deck failures and importance of proper ledger board flashing.
- Provide an overview of the IRC requirements for water management around ledger boards.
- 3. Review examples for:
 - Installation on a new house; and,
 - Installation on an existing house

8



Major Concern is Personal Injuries or Deaths

COMMON ROOT CAUSE

- Ledger failure total collapse of deck
 - 1. Inadequate connection to primary structure
 - 2. Inadequate protection from moisture
- Guardrail failure falling hazard
 - 1. Inadequate connection to deck frame
 - 2. Notched post failure
- Risk increases with age due to environmental exposure causing degradation

10

Water resistive barriers and flashing Code Requirements Type Tools Too

Water resistive barriers



- Water resistive barriers, combined with proper flashing, are intended to block liquid water from entering wall assembly.
- Objective is to channel liquid water and drain to the exterior.



Not required prior to 2006 IRC.

13

Water resistive barriers

IRC: R202

Definition: Material behind exterior wall covering intended to resist liquid water that has penetrated behind the exterior covering from further intrusion into the exterior wall assembly.

Examples:

- #15 Felt paper (or better)
- Grade D building paper
- Tested & labeled house wraps
- Some foam sheathing

14

Water-resistive barrier installation

- · Now required under all siding materials
- Barrier must extend to top of walls
- Must terminate at penetrations and appendages
- Installed so exterior wall envelope will drain to exterior of veneer.

15

R703.8 Flashing. Approved corrosion-resistant flashing shall be applied shingle-fashion in such a manner to prevent entry of water into the wall cavity or penetration of water to the building structural framing components. The flashing shall extend to the surface of the exterior wall finish. Approved corrosion-resistant flashings shall be installed at all of the following locations:

the exterior wall finish or to the water-resistive barrier for subsequent drainage.

- At the intersection of chimneys or other masonry construction with frame or stucco walls, with projecting lips on both sides under stucco copings.
- Under and at the ends of masonry, wood or metal copings and sills.
- Where exterior porches decks or stairs attach to a wall or floor assembly of wood-frame construction.
 - 6. At wall and roof intersections.
 - 7. At built-in gutters.

Flashing



IRC: R703.2

Definition: a material used to deflect bulk water or provide a capillary break.

Examples:

Ledger

- Flexible membrane
- Peal & stick membrane
- Vinyl coil stock
- Pre-formed vinyl
- Compatible metal

17

Everything is installed in shingle fashion Bulk water drains by gravity Bullding Paper Drip Edge

Basic integration of water resistive barrier & flashing Remove Building Paper Back Flashing - Peel & stick Inner Cap Flashing

– Peel & stick

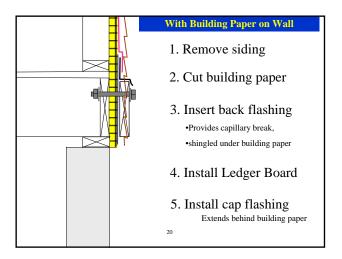
Exterior Cap flashing

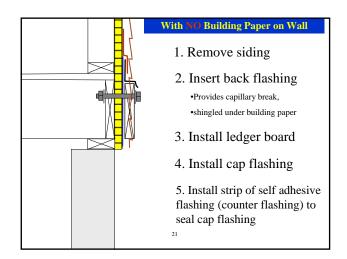
– Copper or vinyl stock

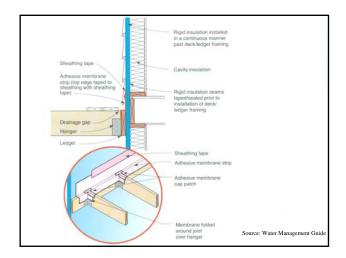
Seal edge of building pap
- Peel & stick

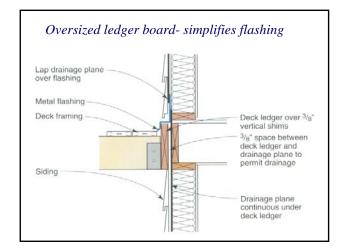
19

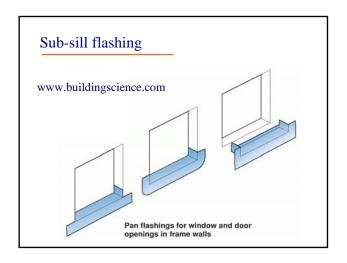
Residential Decks - Ledger Flashing PHRC Program

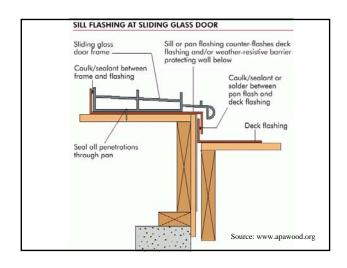












Residential Decks - Ledger Flashing PHRC Program

