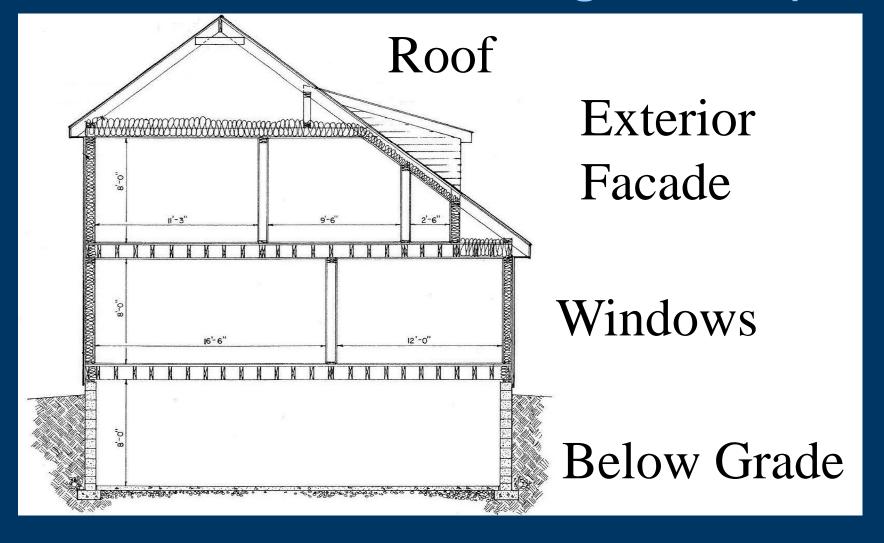
Lesson 4: The Building Envelope





Origin = Source + Path

Points of Entry = lets in water

- Holes in building paper
- Holes in intersection points
- Holes, holes, holes at
- Windows and Doors

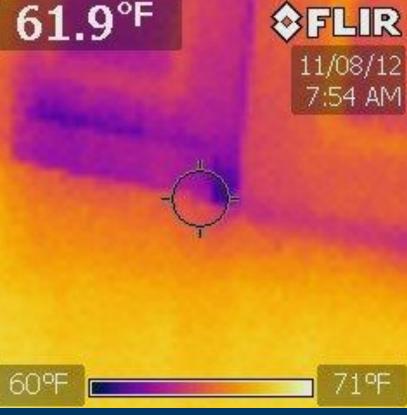


Example 5: Wind Driven Rain



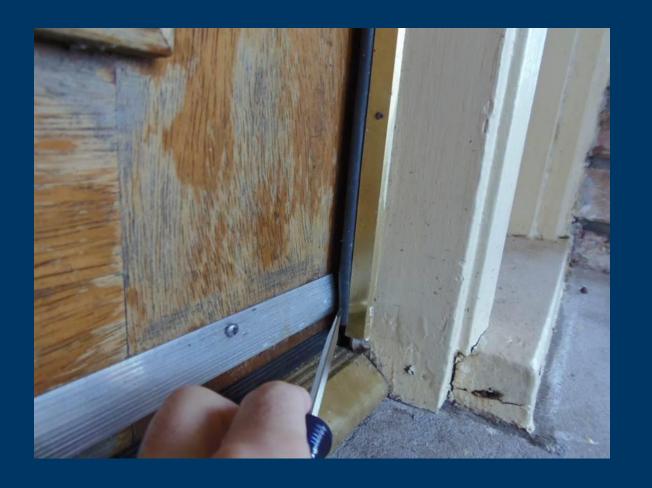
An infrared camera was used to detect cool outside air entering the house at the lower bottom corner of the door.

The outside temperature was 60 degrees. The inside temperature was 70 degrees





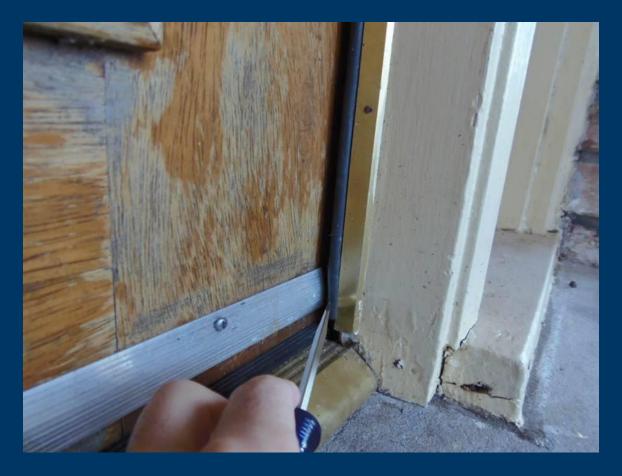
Example 5: Wind Driven Rain



Origin = (Source + Path)

Hurricane (wind and rain)
+ a hole at the base of door

Example 5: Wind Driven Rain



Cause: What one thing? =

Not installed adequately



Point of Entry: Roofs

- A hole
- A cut
- A nail
- Wrinkle
- Rips and tears
- Deterioration

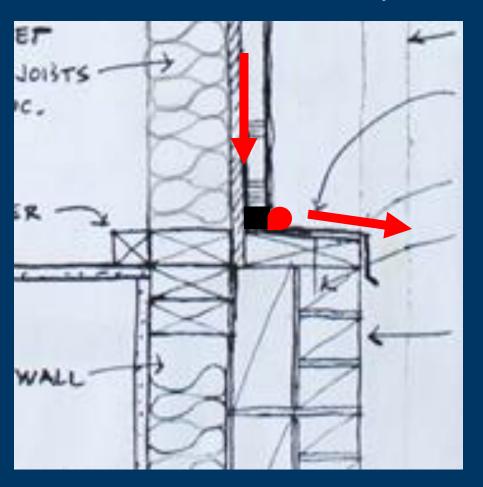
- Wind damage
- A penetration
- Vandalism
- Installation error
- Poor flashing
- Mechanical damage



EPD IN SINGLE PLY MEABRANE ROOFING PREATED 2x6'S TAPERED INSULATION-ROOF SHEATHING TERMINATION BAR W/ PRIP EDGE TOP CHORD EXTENDED PREFINISHED MTL. FASLIA 20" DEEP + WEB JOIST -VENTED DRIP SCREED R3B BATT INSUL BY VILLY CORP. EIFS 2x6 BRG WALL * POWNSPOUT RIA BATT LASUL C FLOOR SHEATHING 1/20 SHEATHING 19" DEEF DOWNSPOUT WEB JOISTS PREFINISHED @ 16" OC. SLOPED WEATHER RESISTANT WOOD BLOCKING ANCHORED TO MASONRY EXISTING FACE BRICK & 4" CMU. HEIGHT 2×4 BRG. WALL OF WALL IS APPROX. RIS BATT INSUL RUN GMILL V.B CONTINUOUS TO FLOOR SHEATHING BEFORE NAILER IS INSTALLED

Example 6: Liquid from the Outside

EIFS exterior insulation finish system



The EIFS was not allowed to drain at the metal flashing



Example 6: Liquid from the Outside

StoTherm® ci Over Masonry **Termination at Built-Out Feature**

Mansory Substrate Sto Adhesive Sto base Coat and Mesh Pre-wrapped or back wrapped Sto Insulation Board Metal Flashing Roof Membrane **Roof Sheathing**

Notes:

1) Terminate StoTherm® ci minimum 2 inches (51mm) above metal flashing with minimum 2 inch (51mm) overlap of flashing.

Detail No.: 19.53

Date: November 2015

2) Provide sealant beneath flashing drip edge.

Was not built according

Cause: What one thing? = to plan or standards

