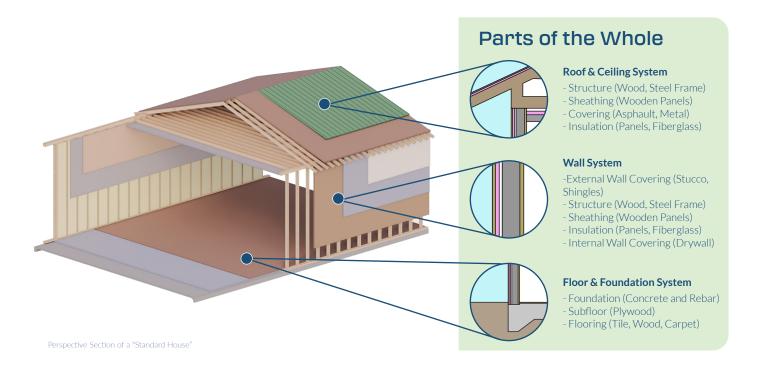
# WATER INTRUSION





## What is Water Intrusion?

Water intrusion refers to the **seeping** of water into a house or the unintentional **accumulation** of water within the house. It is important to note, that **flooding and water intrusion are seperate** but can cause similar damage. The more common water intrusion however, can occur at various points in the house due to **aging, ignorance, or improper construction**. While, water intrusion is one of the most costly damage claims, it is also one of the **easiest to remedy**. This brief guide will talk about some of the ways in which water intrusion can impact the common house, the materials which are affected the most, and some quick tips on preventing costly water intrusion insurance claims.



# **Risks and Damages**

#### Wood (Plywood, Engineered)

- Untreated wood around water begins to rot
- Continual exposure leads to warping and weakening

#### Interior (Drywall, Tiles, Carpet)

- Minimal water leaks lead to large repair jobs
- Continual exposure leads to mold growth and warping

#### Steel and Metal

- Uncoated steel around water begins to rust
- Contiual exposure compromises the structural strength of steel, leading to breaks

#### Masonry

- Decently resistant if water doesn't percolate into material
- Continual exposure leads to cracking and weakening

#### Insulation

- Requires water restrictive barrier to protect it
- Continual exposure leads to mold growth

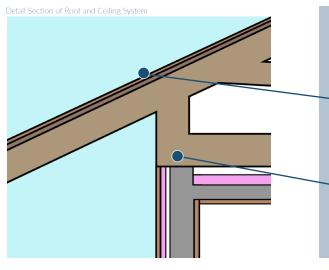
#### Concrete (With Rebar)

- Percolating water can rust untreated interior structure
- Continual exposure leads to cracking and structural failure

# WATER INTRUSION



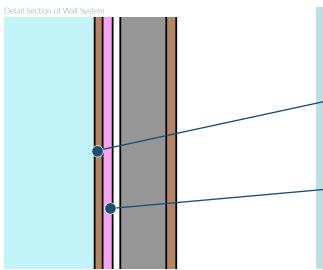




# **Roof and Ceiling**

Keep an eye on the **condition of the roof**. Gaps in the shingles can lead to easy points for water to **seap into the roof structure and the ceiling**. Over time, wooden roof systems will rot and weaken, requiring expensive repairs.

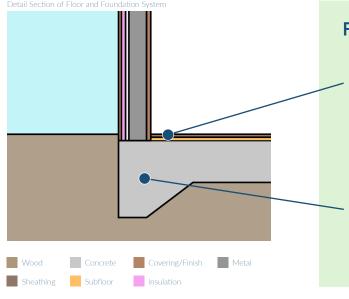
**Proper sealing** of where the roof meets the interior ceiling is important. Fluids travelling along this wall could **slip into the interior**, damaging insulation and drywall, leading to **warped ceilings and leaks**.



### Walls

External wall facades should be meant to withstand consistent interaction with water. Materials such as stucco, plaster, concrete, or treated wood prevent water from percolating into the wall system.

If water were to make it past the external wall covering, make sure that the **vapor barrier** is intact. This layer of plastic or foil **protects the insulation and wall structure** (wood, CMU, etc.) from water damage. These vapor barriers last an **average of 15 years**.



# Floor and Foundation

Water damage to flooring can be a nuisance but, water damage to subflooring can cost much more. Making sure the subfloor has been sealed with a water resistant coat or a membrane prevents warping of the floor structure.

One of the most **costly repairs** comes from water intrusion on the **foundation**. Not only can the water **crack the foundation**, it can also displace sediment around the foundation, causing it to **shift and settle**. A water restrictive barrier or membrane is recommended.