

Roof Systems

Basic Structure & Signs of Damage

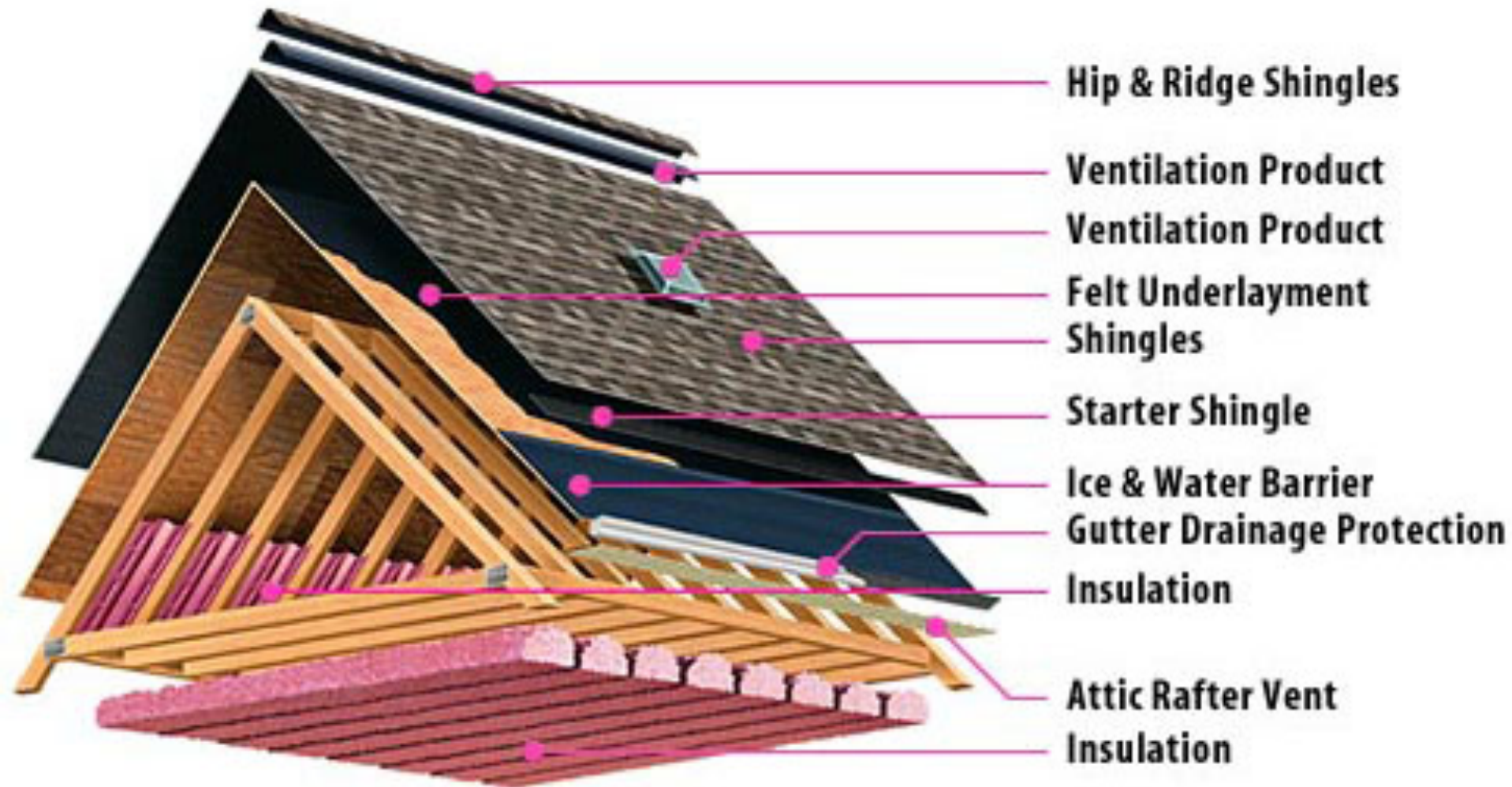
Roof Inspections



Roof Violations



Anatomy of a Roof



Roof Types

Gable



Cross-Gabled



Mansard



Hip



Pyramid



Cross-Hipped



Saltbox



Gambrel



Flat



Bonnet



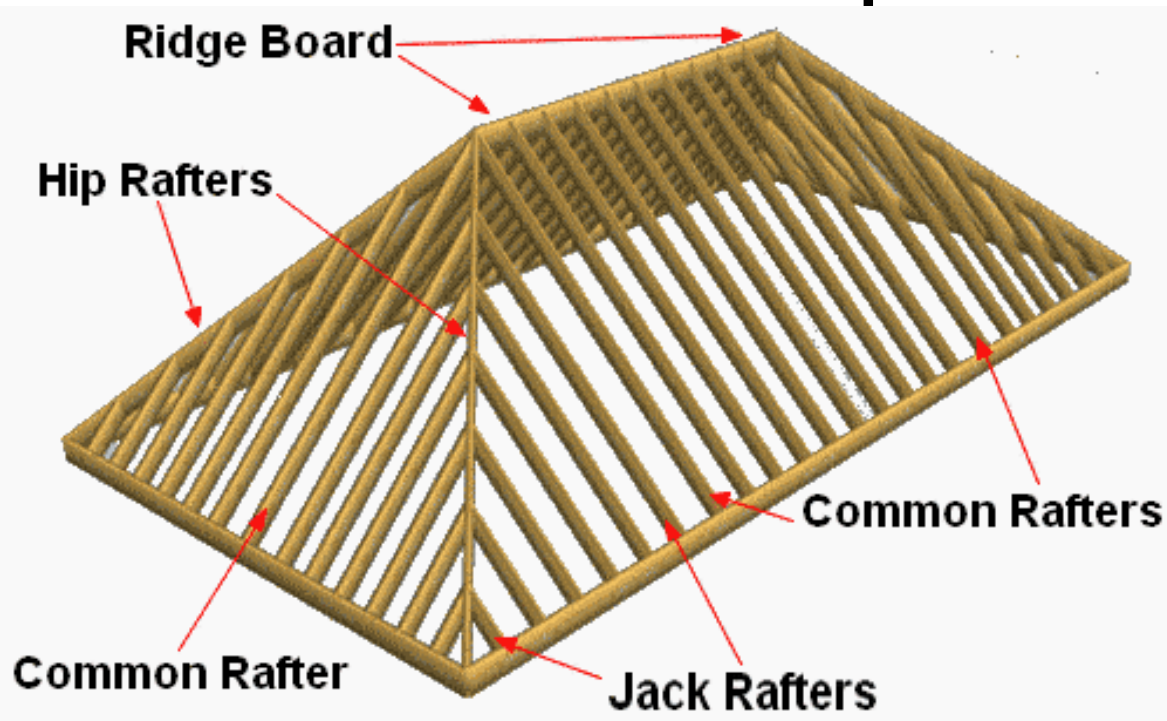
Shed



Other/Unknown

?

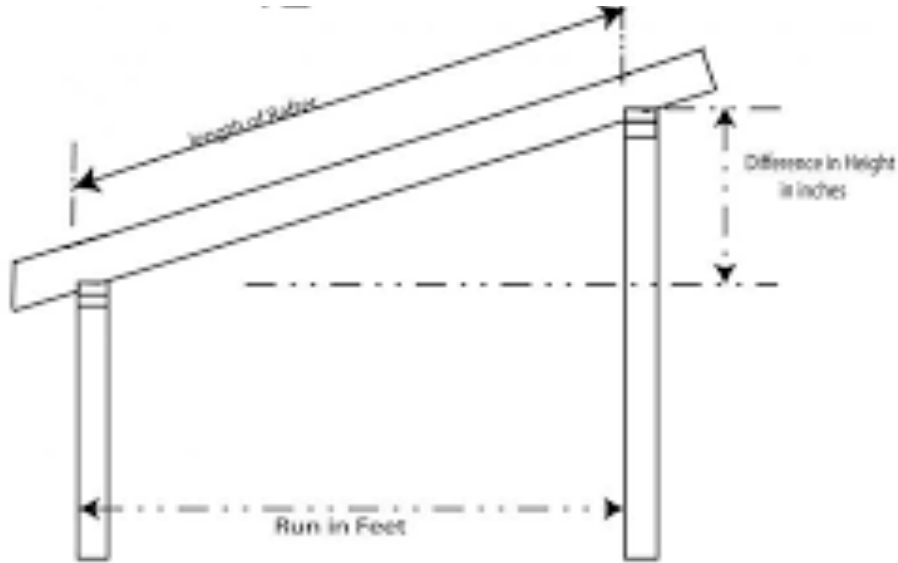
Hip Roof



Gable Roof



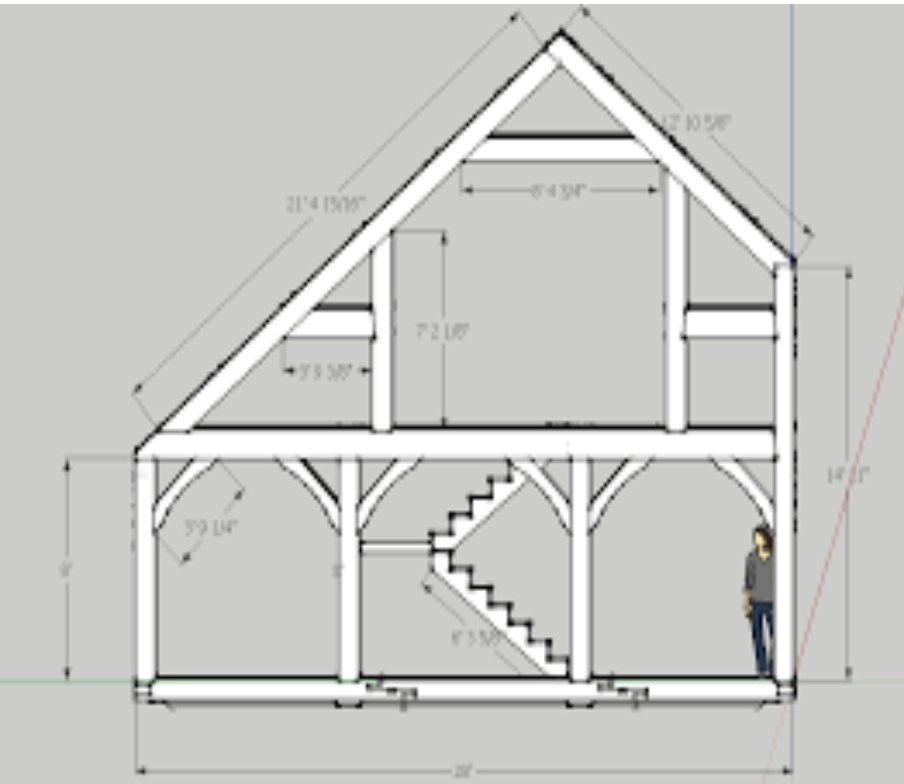
Shed Roof



Difference in Height in inches divided by Run in Feet = pitch



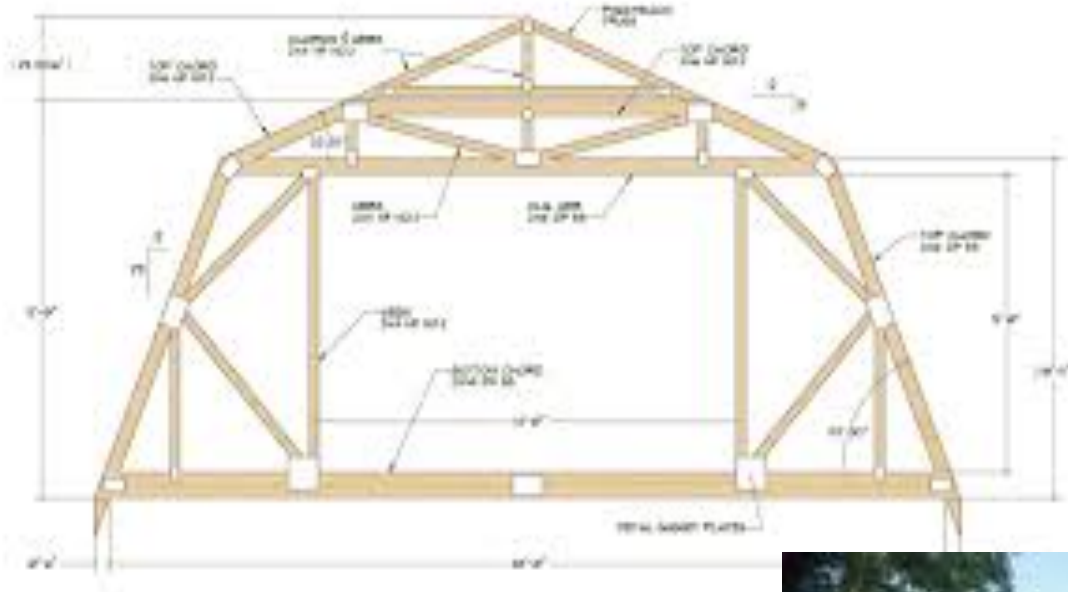
Saltbox Roof



A saltbox is a type of gable roof with different pitches on each of the two roof planes and an offset ridge.



Gambrel/Barn Roof



A gambrel or barn style roof has two pitches on each side of the ridge. The first (lower) pitch on either side is steeper than the pitch near the ridge.



Gullwing Roof



A gull wing roof has two pitches on either side of the ridge, as a gambrel does; but the first pitch of a gull wing is shallower than the second.

Half-hip Roof



A half hip roof has two gable ends. At the top of each gable is a small hip that extends to the ridge.



Mansard Roof



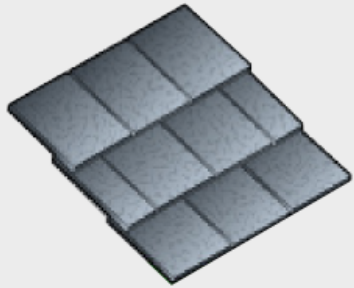
A mansard roof is a hip roof with two slopes on the roof sections above each of the four walls. The second slope begins at the same height above each wall. The upper slope is usually quite gentle and the lower slope, much steeper.



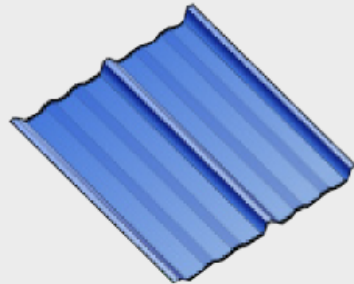
Dormer Roof



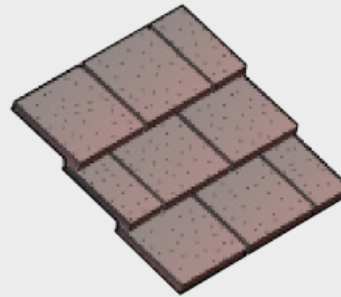
ROOFING MATERIALS



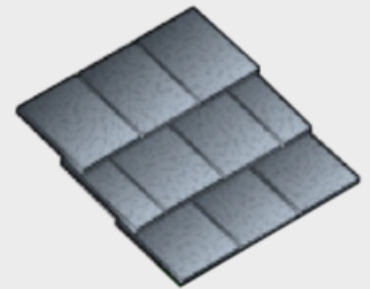
ASPHALT/
COMPOSITION



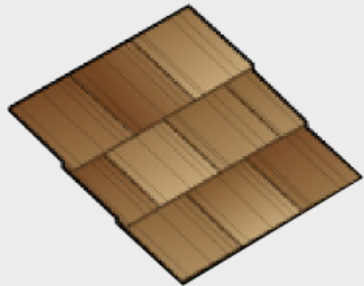
METAL
STANDING
SEAM



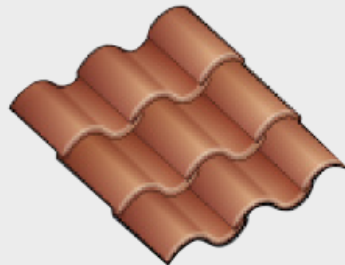
CONCRETE
TILE



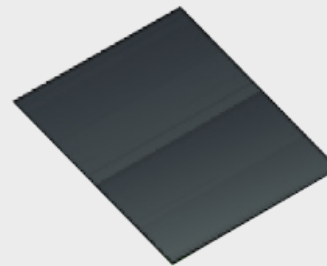
METAL/
ALUMINUM
SHAKE



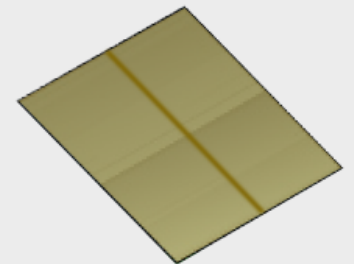
WOOD
SHAKE



CONCRETE/
CLAY TILE



VINYL
MEMBRANE



ROLLED/
FLAT ROOF

Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage

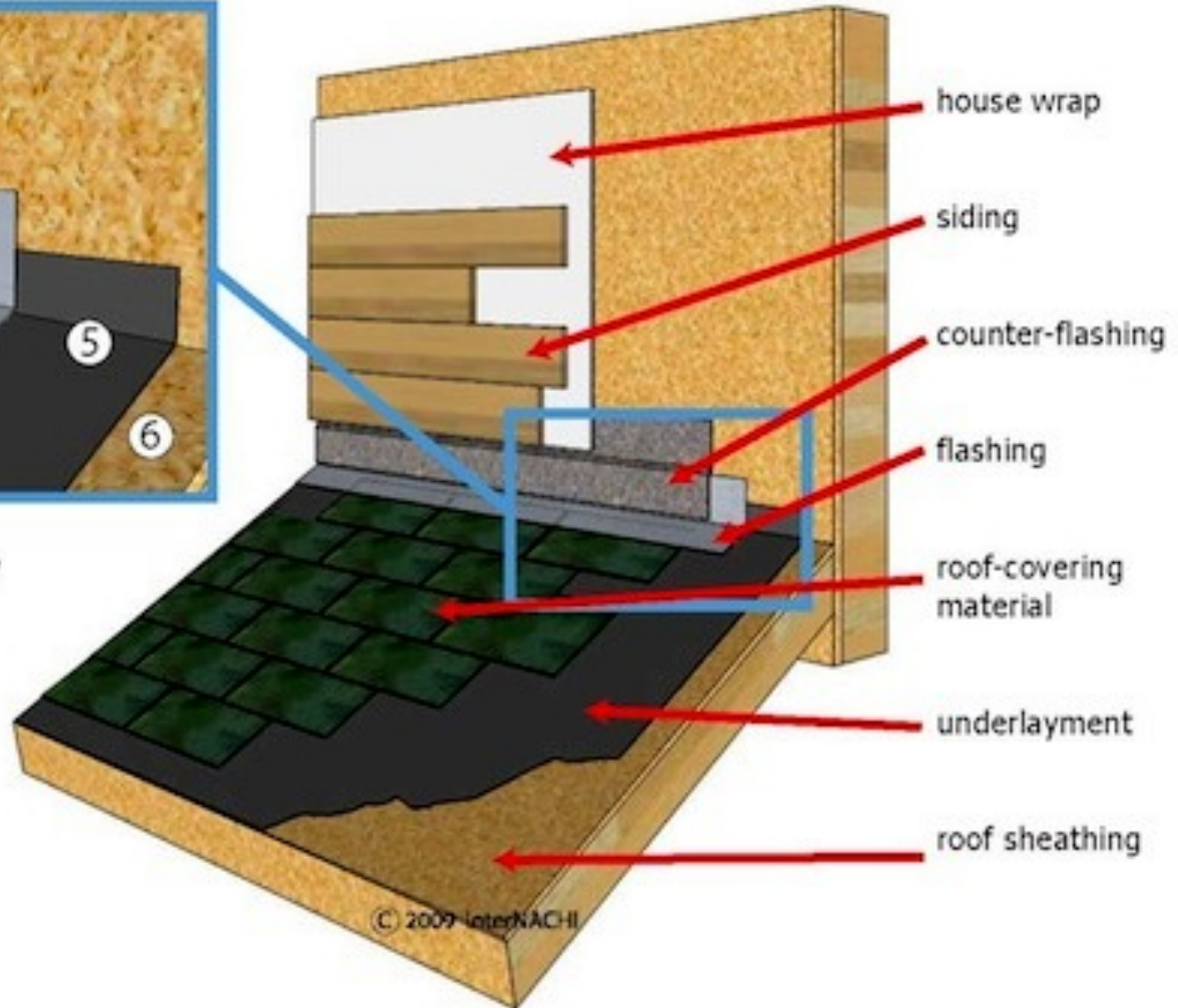


Exterior Signs of Damage



ZOOM VIEW

1. siding
2. house wrap
3. counter-flashing
4. flashing
5. underlayment
6. roof sheathing
7. roof-covering material



Exterior Signs of Damage



Exterior Signs of Damage



Exterior Signs of Damage



Interior Signs of Damage



Interior Signs of Damage



Interior Signs of Damage



Interior Signs of Damage



When are Roof Permits Required



Questions?

