VAPOR BARRIERS



Vapor is water in its gaseous state. Air can only hold so much vapor. When the air becomes saturated with water vapor, the vapor condenses and returns to a liquid state.

Warm air holds more vapor than cold air. As the air becomes colder, the likelihood that vapor will condense and become liquid increases.

The role of a vapor barrier is to stop the passage of vapor into a building through its <u>envelope</u>.

Climate, temperature, building envelope material, and season complicate vapor barriers.



Vapor barriers and vapor retarders are related, but not interchangeable. Both are measured by **permeability**.

Only Class I Vapor Retarders can be classified as vapor barriers, being **vapor impermeable**. Permeability is measured in perms.

Class I Vapor Retarders: 0.1 perms or less. Class II Vapor Retarders: 0.1 to 1 perms. Class III Vapor Retarders: 1 to 10 perms.

Vapor barriers can be created by <u>closed cell spray foam</u>, polyethylene sheeting, fluid-applied vapor barriers, and peel-and-stick membranes



Learn more about vapor barriers at <u>scsfoam.com</u>