

## *Thermafiber- Technical Bulletin*

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### **Vapor Retarder - Moisture Control**

Vapor retarder and moisture control are just two elements essential to the proper design and construction of buildings. The need for and proper placement of the vapor retarder and moisture control must be determined by a qualified professional engineer knowledgeable of the climatic conditions both inside and outside, involved in the construction of each specific building. The qualified designer is typically the architect or mechanical engineer of record. The building's design incorporates the vapor retarder and moisture control techniques in conjunction with other building design elements, including local climatic conditions, HVAC, building materials, etc., to create a total climate controlled system. This system's function is to maintain specific environmental conditions in the occupied spaces of the building.

Without knowledge of the total building design specifications, Thermafiber **cannot** offer recommendations for the building envelope elements of vapor and moisture control. **It is the sole responsibility of the qualified professional engineer to make the determination of requirements for each specific building.**

#### **Thermafiber does provide:**

- 1) **Products** - Foil faced insulation with a 0.02 perm rating and various R-values to support the design specifications required for vapor, moisture and thermal control.
- 2) **Thermal Performance** - Moisture allowed to accumulate within fibrous insulation will cause reduced thermal properties. However, if allowed to dry and not mechanically changed, the thermal properties of the insulation return to their original level.
- 3) **Product Characteristics** – Moisture resistant (absorbs less than 1% moisture), non-corrosive, non-deteriorating, mildew-proof, and vermin proof.

**Vapor retarder and moisture control are important elements of a building envelope's design that must be taken into consideration by the qualified professional engineer.**