

## 1. Design Criteria

- a. The Design Consultant is responsible for selecting which sections and areas of the building envelope shall incorporate specific products and systems and confirming their compatibility as part of the air and thermal barrier design. This section is not intended to dictate what types of insulation shall be used. Types of insulation may be described in the following text, but no preference is meant to be conveyed.
- b. Insulation systems shall be designed to maintain continuity and reduce or avoid thermal breaks to the greatest extent possible.
- c. Insulation fasteners shall be selected to reduce thermal bridging and reduce air leakage through the air barrier layer of the envelope.
- d. NFPA 285 requirements must be met when it applies to the project.
- e. Insulation systems shall be designed to minimize condensation potential in exterior wall assemblies.
- f. This section does not cover insulation for mechanical systems.
- g. When spray applied foam insulation is used, the open cell type shall be permitted in interior partitions where there is no risk of contact with water. The closed cell type shall be allowed in exterior walls.
- h. Sustainability is a factor for project design on all UVM projects so the Design Consultant shall consider the environmental impact of the production, shipment,

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- d. ASTM E84 Fire Performance
- e. ASTM E136 Fire Performance
- f.  $\alpha_{D}$   $\hat{n}$   $\hat{o}$   $\hat{o}$   $\hat{s}$   $v$   $\alpha$   $\%$   $]$ .  $\hat{s}$   $]$   $v$   $($   $\alpha$   $Z$   $]P$   $]U$   $o$   $o$   $\mu$   $o$   $\alpha$   $W$   $]$   
Insulation.
- g. ASTM C423 Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method

