

**1.0 GENERAL****.1 Requirements Include**

- .1 Provide complete thermal protection for building.

**.2 BCIT Sustainability Requirements**

- .1 Consider off gassing when selecting insulation.
- .2 Sustainability Goals - Mandatory Compliance: comply with allowable VOC levels for all adhesives, sealants, paints and other coatings as outlined in Division 01.

**2.0 DESIGN REQUIREMENTS****.1 General**

- .1 Ensure new products meet all requirements of Authorities Having Jurisdiction.
- .2 Materials not identified in these standards must be flagged and approved by Owner and be approved by the Authorities Having Jurisdiction.
- .3 Provide insulation in plumbing walls.
- .4 Provide acoustic batt or mineral wool insulation in all demising walls and other walls as required to meet acoustical requirements.
- .5 Use future forecast climate data to determine appropriate minimum effective R values to be used.
- .6 Prefer the use of insulation assemblies where the insulation is exterior to the air barrier.
- .7 Thermal bridging shall be accounted for when calculating the overall thermal transmittance of assemblies.

**3.0 QUALITY ASSURANCE****.1 Regulatory Requirements**

- .1 Spray Foam:
  - .1 Conform to applicable code for flame and smoke requirements.
  - .2 CAN/ULC S107: Class A Fire Hazard Classification.

**4.0 MATERIALS****.1 Manufacturers**

- .1 Subject to requirements of project, the following manufacturers are acceptable for the products indicated:

Consultants are to provide complete specifications, and review these Technical Standards documents to include BCIT requirements within the specifications as applicable to the project.

- .1 Can-Cell Industries Inc.
- .2 Demilec.
- .3 Dow Corning Corporation.
- .4 Fibrex.
- .5 Grace.
- .6 Johns Manville.
- .7 Owens-Corning.
- .8 Roxul.
- .9 Walltite.
- .10 Or approved substitution.

**.2 Materials**

- .1 Mineral wool insulation is preferred for above grade applications where possible.
- .2 For below grade applications, XPS or EPS insulation is preferred as appropriate.
- .3 Polyisocyanurate is not allowed for below grade applications and applications where it would be subjected to moisture or vapour.
- .4 Spray foam insulations are not preferred unless with BCIT approval.
- .5 Provide for appropriate compressive strength of materials.
- .6 Provide for materials with blowing agents with no CFCs wherever possible.

**.3 Accessories**

- .1 Provide acoustical sealants, fasteners, impaling pins, clips, vapour barriers, sealing tapes, nails and staples, and other accessories for a complete installation.

\*\*\* END OF **BUILDING INSULATION** SECTION \*\*\*