

PART 1 **GENERAL****1.1** **SECTION INCLUDES**

- .1 Materials and installation for, mineral fibre, cellulose and polystyrene loose fill insulations for manual or blowing applications in horizontal or vertical surfaces.

1.2 **RELATED SECTIONS**

- .1 Appendix 4 – Vapour Retarders.

1.3 **REFERENCES**

- .1 American Society for Testing and Materials, (ASTM)
 - .1 ASTM C516, Standard Specification for Vermiculite Loose Fill Thermal Insulation.
 - .2 ASTM C549, Standard Specification for Perlite Loose Fill Insulation.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB 51.34, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .3 Canadian Standards Association (CSA)
 - .1 CSA B149 PACKAGE, Consists of B149.1, Natural Gas and Propane Installation Code and B149.2, Propane Storage and Handling Code.
- .4 National Research Council Canada (NRC) / Institute for Research in Construction (IRC) - Canadian Construction Materials Centre (CCMC)
 - .1 CCMC, Registry of Product Evaluations.
- .5 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S702, Thermal Insulation, Mineral Fibre, for Buildings (Supersedes CSA A101).

1.4 **QUALITY ASSURANCE**

- .1 Provide 2 copies of Certification of Coverage and Application Chart in accordance with Appendix A, CAN/ULC – S702, to Owner's Representative certified by Applicator's signature that the information is correct.

1.5 **SITE ENVIRONMENTAL REQUIREMENTS**

- .1 Apply insulation only when surfaces and ambient temperatures are within manufacturers' prescribed limits.
- .2 Safety: Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of insulation materials.

- .3 Ventilation:
 - .1 Ventilate area of work as directed by Owner's Representative by use of approved portable supply and exhaust fans.
 - .2 Ventilate enclosed spaces.
 - .3 Provide continuous ventilation during and after insulation application. Run ventilation system 24 hours per day during installation; provide continuous ventilation for 3 days after completion of insulation installation.
- .4 Protection
 - .1 Provide temporary enclosures to prevent dust from contaminating air beyond application area.
 - .2 Protect adjacent surfaces and equipment from damage by fall-out, and dust.

PART 2 **PRODUCTS**

2.1 **MATERIALS**

- .1 Mineral fibre insulation: to CAN/ULC-S702, asbestos-free mineral fibre.
 - .1 Type 5 - blowing wool, suitable for application by means of pneumatic equipment.
- .2 Vapour retarder: in accordance with Appendix 4 - Vapour Retarder.

PART 3 **EXECUTION**

3.1 **INSPECTION**

- .1 Ensure that wall cavity is not obstructed.

3.2 **LOOSE GRANULAR INSTALLATION**

- .1 Pneumatically place loose granular insulation above ceiling between joists to provide minimum thermal resistance value RSI as indicated.
- .2 Ensure ceiling areas exposed to outside air are insulated.
- .3 Ensure unobstructed air circulation to eave vents.
- .4 Install baffles as indicated to prevent insulation from spilling over top of exterior wall and causing blockage of soffit vents, and to prevent displacement of insulation by wind entering vents.
- .5 Keep insulation minimum 75 mm from heat emitting devices such as recessed light fixtures, and minimum 50 mm from sidewalls of CAN4-S604 type A chimneys and CSA B149.1 and CSA B149.2 type B and L vents.

3.3 CLEANING

- .1 Remove insulation material spilled during installation and leave work area ready for application of wall board.

END OF SECTION