Partie 1 General

1.1 RELATED REQUIREMENTS

.1 Section 06 10 00 Rough Carpentry

.2 Section 06 10 01 Structural Carpentry

.3 Section 07 26 00 Vapour Retarders

1.2 REFERENCES

.1 American Society for Testing and Materials International (ASTM)

.1 ASTM C516-02, Standard Specification for Vermiculite Loose Fill Thermal Insulation.

.2 ASTM C549-02, Standard Specification for Perlite Loose Fill Insulation.

.3 ASTM C739-03e1, Standard Specification for Cellulosic Fiber Loose-Fill Thermal Insulation.

.4 ASTM D6164-05, Standard Specification for Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements

.2 Canadian General Standards Board (CGSB)

.1 CAN/CGSB 51.34-M86(C1988), Vapour Barrier, Polyethylene Sheet for Use in Building Construction.

.3 Canadian Standards Association (CSA)/CSA International

.1 CAN/CSA-B149.1-F05, Natural Gas and Propane Installation Code.

.2 CAN/CSA-B149.2-F05, Propane Storage and Handling Code.

.4 Health Canada/Workplace Hazardous Materials Information System (WHMIS)

.1 Material Safety Data Sheets (MSDS).

.5 National Research Council Canada (NRC)/Institute for Research in Construction (IRC) - Canadian Construction Materials Centre (CCMC)

.1 CCMC-2002, Registry of Product Evaluations.

.6 Underwriters' Laboratories of Canada (ULC)

.1 CAN/ULC-S702-97, Thermal Insulation, Mineral Fibre, for Buildings (Supersedes CSA A101-M1993).

.2 CAN/ULC-S703-2001, Standard for Thermal Insulation, Cellulose Fibre Insulation (CFI) for Buildings (Supersedes CAN/CGSB-61.60-M90).

.3 CAN/ULC-S604-M1991, Type A Chimneys.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

.1 Submit proof of manufacturer's CCMC Listing and listing number to Departmental Representative.

.2 Manufacturer's Instructions: provide to indicate special handling criteria, installation sequence and cleaning procedures.

.3 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.

.4 Submit WHMIS MSDS - Material Safety Data Sheets.

.5 Submit product data sheets for system materials. Include product characteristics, performance criteria, and limitations.

1.4 QUALITY ASSURANCE

.1 Provide 1 copy of Certification of Coverage and Application Chart in accordance with CAN/ULC-S702 to Departmental Representative, certified by Applicator's signature that the information is correct.

.2 Health and Safety Requirements: do construction occupational health and safety in accordance with Section 01 35 29.06 - Health and Safety Requirements.

1.5 WASTE MANAGEMENT AND DISPOSAL

.1 Separate waste materials for reuse / recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

1.6 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 Arrange for ventilation system to be operated during installation of insulation, by use of approved portable supply and exhaust fans.

.2 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.

.3 Provide continuous ventilation during and after insulation application. Run ventilation system 24 hours per day during installation; provide continuous ventilation for 7 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.

1.7 ACCEPTABLE PRODUCTS AND MATERIALS

.1 Where a particular brand name is stipulated, see Instructions to Bidders for procedure for requesting approval of substitute materials and products

Partie 2 Products

2.1 MATERIALS

.1 Mineral fibre insulation: to CAN/ULC-S702, Ecolabel certified, containing a minimum of 75% recycled content, asbestos-free mineral fibre.

- .1 Type 4 - pouring wool, suitable for manual application.
- .2 Thickness: as indicated.
- .3 RSI value: 0.52 per 25 mm.
- .4 Density: 32 Kg/m3.
- .5 To CAN/ULC-S114 Test for Noncombustibility: noncombustible.
- .6 Surface burning characteristics to CAN/ULC-S102-M, UL 723 and ASTM E84: flame spread: 0 and smoke developed: 0

Partie 3 Execution

3.1 INSPECTION

.1 Ensure that wall cavity is not obstructed.

3.2 LOOSE FIBRE INSTALLATION

.1 Pneumatically place loose fibre insulation above ceiling between joists to provide minimum thermal resistance value RSI as indicated. Apply in two phases, each phase equal to half the total thickness.

.2 Ensure roof 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 and recessed light fixtures, and minimum 50 mm from sidewalls of CAN/ULC-S604 chimneys and CSA-B149.1 and CSA-B149.2 type B and L vents.

.6 Caulk and seal joints and edges.

3.3 CLEANING

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

END OF SECTION