
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 05 12 23 Structural Steel for Buildings.
- .2 Section 06 10 00 Rough Carpentry.
- .3 Section 06 10 01 Structural Carpentry.
- .4 Section 07 26 00 Vapour Retarders.

1.2 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM C518-[4, Standard Test Method for Steady-State Heat Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
 - .2 ASTM D1622-83, Standard Test Method for Apparent Density of Rigid Cellular Plastics.
- .2 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC-S102-03, Method of Test for Surface Burning Characteristics of Building Materials and Assemblies.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit WHMIS MSDS - Material Safety Data Sheets .
- .3 Samples: submit duplicate 300 x 300 mm samples of exposed insulation for approval of texture and colour.

1.4 QUALITY ASSURANCE / MOCK-UPS

- .1 Erect mock-up in accordance with Section 01 45 00 - Quality Control.
- .2 Apply insulation to approximately 10 m² area of surfaces of mock-up matching surface to be treated.
- .3 Mock-up will be used:
 - .1 To judge workmanship, substrate preparation, operation of equipment and material application.
 - .2 For testing to determine compliance with performance requirements: perform following tests.

- .1 Tear test.
- .2 Thickness test.
- .4 Locate where indicated.
- .5 Allow 24 hours for inspection of mock-up by Departmental Representative before proceeding with coating work.
- .6 When accepted, mock-up will demonstrate minimum standard of quality required for work.
 - .1 Approved mock-up may remain as part of finished work.
 - .2 Remove mock-up and dispose of materials when no longer required and when directed by Departmental Representative.

1.5 WASTE MANAGEMENT AND DISPOSAL

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

1.6 AMBIENT CONDITIONS

- .1 Apply insulation only when surfaces and ambient temperatures are within manufacturers' prescribed limits.
- .2 Departmental Representative will arrange for ventilation system to be operated during application of insulation by use of portable supply and exhaust fans.
- .3 Ventilate enclosed spaces in accordance with Section 01 51 00 - Temporary Utilities.
- .4 Run continuous 24 hour/day ventilation during and for seven (7) days after insulation application.

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 Insulation: containing a minimum of 25 % recycled content, asbestos-free mineral fibre containing built-in binders which do not react with base surface and adjacent materials. Applied and cured insulation to conform to following requirements.
 - .1 KSI factor: 0.036 minimum to ASTM C518.
 - .2 Minimum density: 47.95 kg/m³ minimum to ASTM D1622 to reflect KSI factor at this density.
 - .3 Surface burning characteristics: to CAN/ULC-S102.
 - .1 Flame spread: FSC75-15 or (GWL)-15.
 - .2 Fuel contributed: FSC75-15 or (GWL)-15.

- .3 Smoke density developed FSC75-0 or (GWL)-0.
- .2 Asbestos containing materials: not allowed.
- .3 Acceptable product: Monoglass.

Partie 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 PROTECTION

- .1 Ventilate area to receive insulation by introducing fresh air and exhausting air continuously during and 24 hours after application to maintain non-toxic, unpolluted, safe working conditions.
- .2 Provide temporary enclosures to prevent spray from contaminating air beyond application area.
- .3 Protect adjacent surfaces and equipment from damage by overspray, fall-out, and dusting of insulation materials.
- .4 Protect workers as recommended by insulation manufacturer.

3.3 APPLICATION

- .1 Apply adhesive provided by manufacturer to surfaces to insulate prior to insulation.
- .2 Apply insulation to clean dry surfaces.
- .3 Apply insulation in thickness as indicated.
- .4 Tamp smooth, surfaces visible in finished work.

3.4 CLEANING

- .1 Progress Cleaning: Clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 – Cleaning.
- .3 Waste Management: separate waste materials for reuse / recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .4 Upon completion of installation, on completion and verification of performance of installation, remove surplus materials, excess materials, rubbish and tools.

END OF SECTION