
Partie 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 06 10 00 Rough Carpentry.
- .2 Section 07 26 00 Vapour Retarders.
- .3 Section 07 62 00 Sheet Metal Flashing and Trim.
- .4 Section 07 92 00 Joint Sealants.
- .5 Section 08 11 00 Metal Doors and Frames.
- .6 Section 08 11 16 Aluminum Doors and Frames.
- .7 Section 08 44 13 Glazed Aluminum Curtain Walls.
- .8 Section 08 50 00 Windows.
- .9 Section 09 21 16 Gypsum Board Assemblies.
- .10 Section 09 22 16 Non-Structural Metal Framing.

1.2 REFERENCES

- .1 American Society for Testing and Materials International (ASTM)
 - .1 ASTM C553-02, Specification for Mineral Fibre Blanket Thermal Insulation for Commercial and Industrial Applications.
 - .2 ASTM C665-01e1, Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
 - .3 ASTM C1320-05, Standard Practice for Installation of Mineral Fiber Batt and Blanket Thermal Insulation for Light Frame Construction.
- .2 Canadian Gas Association (CGA)
 - .1 CAN/CGA-B149.1-F05, Natural Gas and Propane Installation Code Handbook.
 - .2 CAN/CGA-B149.2-F05, Propane Storage and Handling Code.
- .3 Canadian Standards Association (CSA)/CSA International
 - .1 CSA B111-1974(R2003), Wire Nails, Spikes and Staples.
- .4 Underwriters Laboratories of Canada (ULC)
 - .1 CAN/ULC-S604-M1991, Standard for Type A Chimneys.
 - .2 CAN/ULC-S702-1997, Standard for Thermal Insulation, Mineral Fibre, for Buildings.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.

- .2 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation instructions.

1.4 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Convene pre-installation meeting one week prior to beginning work of this Section on-site installations in accordance with Section 01 32 16.07 - Construction Progress Schedules - Bar (GANTT) Chart.
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordinate with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.
- .4 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 recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for packaging material in appropriate on-site containers for recycling in accordance with Waste Management Plan.

1.6 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 INSULATION

- .1 Batt and blanket mineral fibre: to CAN/ULC-S702-97.
 - .1 Type: 1.
 - .2 Thickness: as indicated.
 - .3 RSI value : 0.72 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.

- .2 Acoustic batt and blanket mineral fibre: to CAN/ULC-S702-09
 - .1 Type 1: to CAN4-S114.
 - .2 Thermal resistance to CAN/ULC S702.
 - .3 Thickness: as indicated.
 - .4 Density: 45 Kg/m³.
 - .5 To CAN/ULC-S114 Noncombustibility Test : Noncombustible.
 - .6 Surface burning characteristics to CAN/ULC-S102-M, UL 723 and ASTM E84: flame spread: 0 and smoke developed: 0.
 - .7 Nominal mass: 24 kg/m³.

2.2 ACCESSORIES

- .1 Attaches
 - .1 Insulation clips: impale type, perforated 50 x 50 mm cold rolled carbon steel 0.8 mm thick, adhesive back, spindle of 2.5 mm diameter annealed steel, length to suit insulation, 25 mm diameter washers of self locking type.
- .2 Nails: galvanized steel, length to suit insulation plus 25 mm, to CSA B111.
- .3 Staples: 12 mm minimum leg.
- .4 Tape: as recommended by manufacturer.
- .5 Adhesive: as recommended by manufacturer.

Partie 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 INSULATION INSTALLATION

- .1 Install insulation to maintain continuity of thermal protection to building elements and spaces and to ASTM C1320.
- .2 Install insulation with factory applied vapour barrier facing warm side of building spaces and vapour permeable membrane facing cold side. Lap ends and side flanges of membrane over framing members. Retain in position with insulation clips installed as recommended by manufacturer. Tape seal butt ends and lapped side flanges. Do not tear or cut vapour barrier.
- .3 Fit insulation closely around electrical boxes, pipes, ducts, frames and other objects in or passing through insulation.
- .4 Do not compress insulation to fit into spaces.

- .5 Keep insulation minimum 75 mm from heat emitting devices such as recessed light fixtures, and minimum 50 mm from sidewalls of CAN/ULC-S604 Type A chimneys to CAN/ULC-S604, and CAN/CGA-B149.2 Type B and L vents.
- .6 Do not enclose insulation until it has been inspected and approved by Departmental Representative.

3.3 CLEANING

- .1 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION