

**Part 1 General**

**1.1 RELATED SECTIONS**

- .1 Section 09 21 16 - Gypsum Board Assemblies
- .2 Mechanical Documents: Insulation for mechanical work.

**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-Fibre Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
  - .3 ASTM C1320-99, Standard Practice for Installation of Mineral Fibre Batt and Blanket Thermal Insulation for Light Frame Construction.
- .2 Canadian Gas Association (CGA).
  - .1 CAN/CGA-B149.1HB-00, Natural Gas and Propane Installation Code Handbook.
  - .2 CAN/CGA-B149.2-00, Propane Storage and Handling Code.
- .3 Canadian Standards Association (CSA International).
  - .1 CSA B111-1974(R1998), Wire Nails, Spikes and Staples.
- .4 Environmental Choice Program (EPC).
  - .1 CCD-016-97, Thermal Insulation.
- .5 Underwriters Laboratories of Canada (ULC).
  - .1 CAN/ULC-S702-1997, Standard for Mineral Fibre Insulation.

**1.3 SUBMITTALS**

- .1 Product Data:
  - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Division 1 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.

**1.5 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Division 1 Submittal Procedures.
  - .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
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- .3 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material for recycling in accordance with applicable provincial and municipal regulations.

## Part 2 Products

### 2.1 INSULATION

- .1 Batt and blanket mineral fibre:
  - .1 **Interior partitions:**
    - .1 Sound Attenuation Blanket: Rockwool AFB Semi-rigid batt insulation, or preapproved equivalent.
    - .2 Fire-resistive insulation: Rockwool Safe, or preapproved equivalent.
    - .3 Thickness: as indicated.

### 2.2 ACCESSORIES

- .1 Insulation clips:
  - .1 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 Tape: as recommended by manufacturer.

## Part 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.
- .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 and CAN/CGA-B149.1 and CAN/CGA-B149.2 Type B and L vents.
- .6 Do not enclose insulation until it has been inspected and approved by Architect.

**3.3 CLEANING**

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

**END OF SECTION**