

**Part 1 General**

**1.1 RELATED REQUIREMENTS**

- .1 Section 21 05 01 - Common Work Results for Mechanical.

**1.2 REFERENCES**

- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
  - .1 Material Safety Data Sheets (MSDS).
- .2 National Fire Protection Association (NFPA)
  - .1 NFPA 10, Standard for Portable Fire Extinguishers.

**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 and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Provide shop drawings.
- .4 Quality control submittals: submit following in accordance with Section 01 45 00 - Quality Control.
  - .1 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures.
  - .2 Manufacturer's Field Reports: submit manufacturer's written reports within three (3) days of review, verifying compliance of Work, as described in PART 3, FIELD QUALITY CONTROL.
- .5 Closeout Submittals:
  - .1 Provide operation and maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

**1.4 DELIVERY, STORAGE AND HANDLING**

- .1 Packing, shipping, handling and unloading:
  - .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 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.

**Part 2            Products**

**2.1            WATER PUMP TANK EXTINGUISHERS**

- .1       Not used.

**2.2            WATER PRESSURIZED EXTINGUISHERS**

- .1       Not used.

**2.3            MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS (CLASS A:B:C)**

- .1       Stored pressure rechargeable type with hose and shut-off nozzle, ULC labelled for A, B and C class protection.
  - .1       Agent: Ammonium phosphate, powder type
  - .2       Size: 4.5 kg.
  - .3       Minimum Rating: 4A80BC

**2.4            ORDINARY DRY CHEMICAL EXTINGUISHERS**

- .1       Not used.

**2.5            CARBON DIOXIDE EXTINGUISHERS (CLASS B:C)**

- .1       Stored pressure rechargeable type with insulated handle, horn discharge assembly, self-closing lever or squeeze-grip operation, fully charged, ULC labelled for B and C class protection.
  - .1       Agent: Carbon dioxide
  - .2       Size: 4.5 kg.
  - .3       Minimum Rating: 10BC

**2.6            DRY CHEMICAL EXTINGUISHERS (CLASS D)**

- .1       Not used.

**2.7            KITCHEN WET CHEMICAL EXTINGUISHERS (CLASS A:K)**

- .1       Stored pressure rechargeable type ULC labelled for A and K class protection.
  - .1       Agent: Potassium acetate, wet agent type
  - .2       Minimum Rating: 2AK

**2.8            EXTINGUISHER BRACKETS**

- .1       Type recommended by extinguisher manufacturer.

**2.9            CABINETS**

- .1       Semi-recessed Flat Style:
  - .1       Semi-recessed cabinet constructed of 1.6 mm thick steel with a 25 mm reveal, and a 180 degree opening door of 2.5 mm thick steel with latching device. Door

- fitted with 5 mm clear glass, stainless steel concealed latch, reinforced piano hinges and a 25 mm turnback.
- .2 Finish:
  - .1 Tub: prime coated.
  - .2 Door and frame: No.4 satin finish stainless steel.
- .3 Size: to suit extinguisher.
- .4 Locations: as indicated.
- .2 Semi-recessed Canopy Style:
  - .1 Semi-recessed cabinet constructed of 1.6 mm thick steel with door of 2.5 mm thick steel with latching device. Door fitted with a clear polycarbonate bubble canopy, stainless steel concealed latch, reinforced piano hinges and a 25 mm turnback.
    - .1 Finish:
      - .1 Tub: prime coated.
      - .2 Door and frame: No.4 satin finish stainless steel.
    - .2 Size: to suit extinguisher.
    - .3 Locations: as indicated.
- .3 Surface Mount Style
  - .1 Surface mount cabinet constructed of 1.2 mm thick steel with keyed door. Door fitted with a scored plexiglass panel that is removable and replaceable.
  - .2 Size: to suit extinguisher.
  - .3 Locations: as indicated.
- .4 Cabinet to maintain fire resistive rating of construction in which they occur.

## **2.10 IDENTIFICATION**

- .1 Identify extinguishers in accordance with recommendations of NFPA 10 and CAN/ULC-S508.
- .2 Attach tag or label to extinguishers, indicating month and year of installation. Provide space for service dates.

## **2.11 FIRE SAFETY BLANKETS**

- .1 Not used.

## **Part 3 Execution**

### **3.1 MANUFACTURER'S INSTRUCTIONS**

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

### **3.2           INSTALLATION**

- .1     Install fire extinguisher cabinet with top of cabinet 1.5 m above floor.
- .2     Install or mount extinguishers in cabinets or on brackets as indicated.
- .3     Provide extinguisher and mounting of the type listed for the following areas.
  - .1       Electrical and Telephone Rooms: carbon dioxide w/ bracket
  - .2       Mechanical Rooms: multi-purpose dry chemical w/ bracket
  - .3       Elevator Machine Rooms: carbon dioxide w/bracket
  - .4       Emergency Generator Rooms: carbon dioxide w/ bracket
  - .5       Garbage Rooms: multi-purpose dry chemical w/bracket
  - .6       Loading Docks: multi-purpose dry chemical w/bracket
  - .7       Maintenance Workshops: multi-purpose dry chemical w/bracket
  - .8       Kitchens: kitchen wet chemical w/bracket
  - .9       Server/Computer Rooms: carbon dioxide w/bracket
  - .10      Corridors: multi-purpose dry chemical w/ cabinet
  - .11      Office Areas: multi-purpose dry chemical w/cabinet
- .4     Extinguisher quantities and locations as identified on the drawings.

### **3.3           FIELD QUALITY CONTROL**

- .1     Manufacturer's Field Services:
  - .1       Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

**END OF SECTION**