

**Part 1        General****1.1        RELATED REQUIREMENTS**

- .1        Section 23 05 00 – Common Work Results for HVAC.

**1.2        ACTION AND INFORMATIONAL SUBMITTALS**

- .1        Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2        Product Data:
  - .1        Submit manufacturer's instructions, printed product literature and data sheets for plumbing products and include product characteristics, performance criteria, physical size, finish and limitations.

**1.3        DELIVERY, STORAGE AND HANDLING**

- .1        Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2        Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3        Storage and Handling Requirements:
  - .1        Store materials indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2        Store and protect plumbing materials from nicks, scratches, and blemishes.
  - .3        Replace defective or damaged materials with new.
- .4        Develop Construction Waste Management Plan related to Work of this Section.
- .5        Packaging Waste Management: remove for reuse of pallets, crates, padding, packaging materials as specified in Construction Waste Management Plan in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

**Part 2        Products****2.1        ROOF DRAINS**

- .1        Copper retrofit drain with vandal-proof cast aluminium screened dome with access hatch and stainless steel heavy duty ballast retainer.
  - .1        Copper flange 445mm diameter.
  - .2        Downpipe 1.651mm thick copper x diameter to suit existing drain.
  - .3        Cast aluminium clamping ring.
  - .4        Proprietary compressible connectors to ensure waterproof seal with existing drain pipe or flexible coupling with new drain pipe.
  - .5        Provide acceptable separation between dissimilar metals.

**Part 3            Execution****3.1            EXAMINATION**

- .1      Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for plumbing specialties and accessories installation in accordance with manufacturer's written instructions.
  - .1      Visually inspect substrate in presence of Departmental Representative.
  - .2      Inform Departmental Representative of unacceptable conditions immediately upon discovery.
  - .3      Proceed with installation only after unacceptable conditions have been remedied.

**3.2            MANUFACTURER'S INSTRUCTIONS**

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

**3.3            INSTALLATION**

- .1      Install in accordance with provincial codes, local authority having jurisdiction.
- .2      Install in accordance with manufacturer's instructions and as specified.

**3.4            CLEANOUTS**

- .1      Install cleanouts at rainwater leaders, at locations required by code, and as indicated.

**3.5            START-UP**

- .1      Timing: start-up only after:
  - .1      Pressure tests have been completed.
  - .2      Disinfection procedures have been completed.
  - .3      Certificate of static completion has been issued.
  - .4      Water treatment systems operational.
- .2      Provide continuous supervision during start-up.

**3.6            TESTING AND ADJUSTING**

- .1      Timing:
  - .1      After start-up deficiencies rectified.
- .2      Roof drains:
  - .1      Check location at low points in roof.
  - .2      Check security, removability of dome.
  - .3      Adjust weirs to suit actual roof slopes, meet requirements of design.
  - .4      Clean out sumps.

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- .5 Verify provisions for movement of roof systems.
  - .3 Cleanouts:
    - .1 Verify covers are gas-tight, secure, yet readily removable.
  - 3.7 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 recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
      - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.
  - 3.8 PROTECTION**
    - .1 Protect installed products and components from damage during construction.
    - .2 Repair damage to adjacent materials caused by plumbing specialties and accessories installation.

**END OF SECTION**

