

PART 1 - GENERAL

- 1.1 REFERENCES
- .1 ASTM International Inc.
    - .1 ASTM D 2235-04, Standard Specification for Solvent Cement for Acrylonitrile-Butadiene-Styrene (ABS) Plastic Pipe and Fittings.
    - .2 ASTM D 2564-04e1, Standard Specification for Solvent Cements for Poly(Vinyl-Chloride) (PVC) Plastic Piping Systems.
  - .2 Canada Green Building Council (CaGBC)
    - .1 LEED Canada-NC-2009, LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations.
  - .3 Canadian Standards Association (CSA International)
    - .1 CAN/CSA-Series B1800-06, Thermoplastic Nonpressure Pipe Compendium - B1800 Series.
  - .4 Green Seal Environmental Standards (GSES)
    - .1 Standard GS-36-00, Commercial Adhesives.
  - .5 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
    - .1 Material Safety Data Sheets (MSDS).
  - .6 South Coast Air Quality Management District (SCAQMD), California State
    - .1 SCAQMD Rule 1168-A2005, Adhesive and Sealant Applications.
- 1.2 ACTION AND INFORMATIONAL SUBMITTALS
- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
  - .2 Product Data:
    - .1 Provide manufacturer's printed product literature and datasheets for piping and adhesives, and include product characteristics, performance criteria, physical size, finish and limitations.
    - .2 Provide two copies WHMIS MSDS - Material Safety Data Sheets in accordance with Section

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- 1.2 ACTION AND INFORMATIONAL SUBMITTALS (Cont'd)
- .2 Product Data: (Cont'd)
    - .2 (Cont'd)  
01 35 29.06 - Health and Safety Requirements and 01 35 43 - Environmental Procedures.
  - .3 Sustainable Design Submittals:
    - .1 LEED Submittals: in accordance with Section 01 35 21 - LEED Requirements.
- 1.3 DELIVERY, STORAGE AND HANDLING
- .1 Deliver, store and handle in accordance with Section 01 61 00 - Common Product Requirements.
  - .2 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
  - .3 Store at temperatures and conditions recommended by manufacturer.
  - .4 Packaging Waste Management: remove for reuse or return by manufacturer of pallets, crates, padding and packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- PART 2 - PRODUCTS
- 2.1 MATERIAL
- .1 Sustainable Requirements: materials and products in accordance with Section 01 35 21 LEED Requirements.
  - .2 Adhesives and Sealants: in accordance with Section 07 92 00 - Joint Sealants.
    - .1 Maximum VOC limit 70 g/L to SCAQMD Rule 1168 and in accordance with Section 01 35 21 - LEED Requirements.
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2.2 PIPING AND FITTINGS .1 For buried and or above ground DWV piping to:  
.1 CAN/CSA B1800.

2.3 JOINTS .1 Solvent weld for PVC: to ASTM D 2564.  
.2 Solvent weld for ABS: to ASTM D 2235.

PART 3 - EXECUTION

3.1 APPLICATION .1 Manufacturer's Instructions: comply with manufacturer's written recommendations, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 INSTALLATION .1 In accordance with Section 23 05 05 - Installation of Pipework.  
.2 Install in accordance with National Plumbing Code local authority having jurisdiction.

3.3 TESTING .1 Pressure test buried systems before backfilling.  
.2 Hydraulically test to verify grades and freedom from obstructions.

3.4 PERFORMANCE VERIFICATION .1 Cleanouts:  
.1 Ensure accessible and that access doors are correctly located.  
.2 Open, cover with linseed oil and re-seal.  
.3 Verify cleanout rods can probe as far as the next cleanout, at least.  
.2 Test to ensure traps are fully and permanently primed.

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3.4 PERFORMANCE  
VERIFICATION  
(Cont'd)

- .3 Storm water drainage:
  - .1 Verify domes are secure.
  - .2 Ensure weirs are correctly sized and installed correctly.
  - .3 Verify provisions for movement of roof system.
- .4 Ensure fixtures are properly anchored, connected to system and effectively vented.
- .5 Affix applicable label (storm, sanitary, vent, pump discharge) c/w directional arrows every floor or 4.5 m (whichever is less).

3.5 CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.
  - .1 Remove surplus materials, excess materials, rubbish, tools and equipment.
- .2 Waste Management: separate waste materials for reuse and recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal and Section 01 35 21 - LEED Requirements.