

15003 Construction Materials – Sewer Mains**Index**

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15003-1 Sewer Main Pipe – Gravity Flow**1.1 Reinforced Concrete Pipe****Product Description:**

- Reinforced Concrete Pipe
- Joints shall be the rubber gasket type
- Standard pipe lengths shall not be less than 1.8 m

Conforming to:

- ASTM C76 Class 5 or for a specific D-load in ASTM C655
- Pipe joints - ASTM C443 or ASTM C361
- Pipe joints installed at a buried depth of 6m or greater - ASTM C361

Product Use:

- Gravity Sewer construction
- Bell and Spigot grove type joints for buried depth of 6m or greater
- Beveled pipe and pipe lengths less than 1.8m – as approved by City of Saskatoon Engineer on a project to project basis

Standard Construction Specification Reference:

- 08002-3.2

Approved products: Manufacturer – Model

- Inland Pipe
- Lafarge Canada Inc.

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

1.2 Polyvinyl Chloride (PVC) Type PSM, Sanitary and Storm Pipe and Fittings (150-675mm)

Product Description:

- Polyvinyl Chloride Pipe, Bell and Spigot type with factory supplied rubber gasket.
- SDR not greater than 35 or SDR 28 at buried depth greater than 6m

Conforming to:

- ASTM D3034 and CSA B182.2

Product Use:

- Gravity Sanitary and Storm Sewer Main construction

Standard Construction Specification Reference:

- 08002-3.1

Approved products: Manufacturer – Model

- Ipex Inc. – Ring Tite
- Northern Pipe Products Inc. – Northern Pipe
- Royal Group - Royal Seal
- Next Polymers - Duraloc
- Galaxy Plastics – Gasketed Sewer Fittings

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

1.3 Polyvinyl Chloride (PVC) Open Profile Storm Sewer Pipe and Fittings

Profile PVC products are not approved for use as a catch basin lead.

Product Description:

- Polyvinyl Chloride Open Profile (OP) Pipe with concentric reinforcing ribs
- Bell and Spigot type with factory supplied rubber gasket

Conforming to:

- ASTM F794 and CSA B182.4

Product Use:

- Gravity flow Storm Sewer Main construction

Standard Construction Specification Reference:

- 08002-3.1.2

Approved products: Manufacturer – Model

- Ipex Inc. - Ultra Rib

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

1.4 Polyvinyl Chloride (PVC) Dual Wall Corrugated Profile Storm Sewer Pipe and Fittings

Profile PVC products are not approved for use as a catch basin lead.

Product Description:

- Polyvinyl Chloride, Dual Wall Corrugated Profile (DWCP) pipe
- Bell and Spigot type with factory supplied rubber gasket

Conforming to:

- ASTM F794 and CSA B182.4

Product Use:

- Gravity flow storm sewer main construction

Standard Construction Specification Reference:

- 08002-3.1.2

Approved products: Manufacturer – Model

- Royal Group – Kor-Flo (200mm – 900mm)
- Ipex Inc. – Ultra X2 (750mm & 900mm)

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

1.5 High Density Polyethylene (HDPE) Storm Sewer Gravity Flow Pipe**Product Description:**

- Polyethylene Sewer pipe

Conforming to:

- CGSB 41-GP-25M

Product Use:

- Gravity & Low Pressure Applications
- As approved by City of Saskatoon Engineer on a project to project basis

Standard Construction Specification Reference:

- 08010-7.5

Approved products: Manufacturer – Model

- KWH Pipe - Weholite
- Polytubes

Approved products: Manufacturer – Model (with Conditions)

CSA B182.8 (Storm Sewer) with a minimum ring stiffness of 320KPa, only with CSA B182.8 Type 1 Joints (74KPa) (Boss Ultra Stab 75) is approved for use in storm watermain line applications up to a maximum bury to invert of six metres.

Not approved for use as a catch basin lead.

- Armttec Limited - Boss 2000 320Kpa HDPE
- Hancor, Inc. – HDPE
- Hancor, Inc. – ADS N-12 WT 1B HDPE

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

15003-2 Sewer Main Pressure Pipe

2.1 High Density Polyethylene (HDPE) Sewer Pressure Pipe

Product Description:

- High Density Polyethylene Pipe

Conforming to:

- CGSB 41-GP-25M

Product Use:

- Force main construction
- As approved by City of Saskatoon Engineer on a project to project basis
- Joined by butt fusing the ends of the pipe

Standard Construction Specification Reference:

- 08002-3.3

Approved products: Manufacturer – Model

- KWH Pipe - Sclairpipe
- Performance Pipe
- Polytubes

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

2.2 Polyvinyl Chloride (PVC) Sewer Pressure Pipe

Product Description:

- Polyvinyl Chloride DR41 Class 100 Pressure Pipe
- Bell and Spigot type with factory installed gasket

Conforming to:

- AWWA C900, CSA137.3

Product Use:

- Force main construction
- As approved by City of Saskatoon Engineer on a project to project basis

Standard Construction Specification Reference:

- N/A

Approved products: Manufacturer – Model

- Ipex Inc.

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

15003-3 Concrete Manholes and Catch Basins

3.1 Reinforced Concrete Manhole Barrels and Catch Basins

Product Description:

- Precast reinforced concrete barrels
- Joints shall be the rubber gasket type

Conforming to:

- ASTM C478

Product Use:

- Sewer main construction

Standard Construction Specification Reference:

- Section 08002, City of Saskatoon Standard Drawings for Catchbasins and Manholes

Approved products: Manufacturer – Model

- Inland Pipe
- Proform Precast Products Inc.
- Lafarge Canada Inc.
- Souris Valley Industries

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

3.2 Manhole Frames and Covers

Product Description:

- Cast Iron Frame and Cover

Conforming to:

- ASTM A48M-00

Product Use:

- Sewer main construction

Standard Construction Specification Reference:

- Section 08002, City of Saskatoon Standard Drawings for Catchbasins and Manholes

Approved products: Manufacturer – Model

- Titan Foundry Ltd.
- Westview Sales Ltd.

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

3.3 Pipe to Manhole and Concrete Structure Connectors

Product Description:

- Resilient, watertight connection between concrete manholes, structures and pipes.

Conforming to:

- ASTM C923
- ASTM C1478

Product Use:

- Sewer main construction.

Standard Construction Specification Reference:

- Section 08002-5

Approved products: Manufacturer – Model

- Hamilton Kent – HKT-CS
- Press–Seal Corporation
 - PSX: Direct Drive & 8QRS
 - Econoseal
 - Kwik Seal
 - WS Series Waterstop

All products must meet specification. This section is intended as a guide to products that comply. The Specifications take precedence over this section. Products included in this section must still be proven to comply by the supplier. To have a product added or approved, see Sections 08000, 08001, 08002.

End of Specification 15003