

## TECHNICAL SPECIFICATION

### Royal Seal™ Gasketed Sewer Pipe SDR 28

Cell classification 12364

#### **SCOPE**

This specification covers the requirements for PVC (polyvinyl chloride) gravity sewer pipe with integral locked-in gasket bell and spigot joints. Nominal sizes 4", 5" and 6" is certified to Canadian Standards Association (CSA) Standard B182.2.

#### **MATERIALS**

The pipe is manufactured from virgin PVC compound meeting the cell classification requirements of 12364 as defined by the American Society of Testing and Materials (ASTM) Standard D 1784: *Standard Specification for Rigid PVC Compounds and CPVC Compounds*.

When available, Royal uses reworked PVC material from Royal pipe production, in accordance with Clause 4.1.3 of CSA B181.0. The supply of this type of rework material is not consistent, therefore Royal cannot guarantee the exact recycled content of any one product.

#### **MARKING**

Pipe markings are as specified in CSA B182.2.

#### **PIPE**

The pipe is manufactured for use in gravity flow sanitary and storm sewer. The pipe is produced with a wall thickness corresponding to the dimension ratio of SDR 28, with a minimum pipe stiffness value of 90 psi (625 kPa) when tested in accordance with ASTM D2412, *Standard Test Method for Determination of External Loading*. Standard length of pipe is 4.0m plus the bell.

#### **GASKETS**

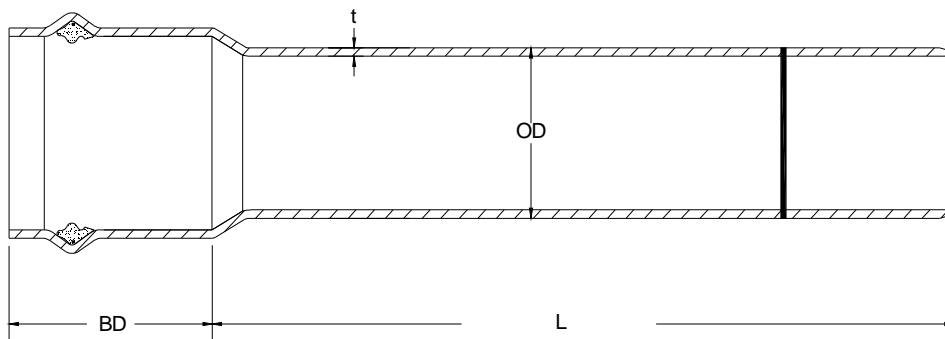
The pipe utilizes a double seal locked-in gasket system (DSLII) design which exceeds the requirements of ASTM D3212, *Standard Specifications for Joints for Drain and Sewer Plastic Pipes Using Flexible Elastomeric Seals*. The gaskets are reinforced with a steel band and conform to the requirements of ASTM F477: *Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe*.

## TEST REQUIREMENTS

Quality testing is as per Royal's Quality Assurance program and in accordance with CSA B182.2.

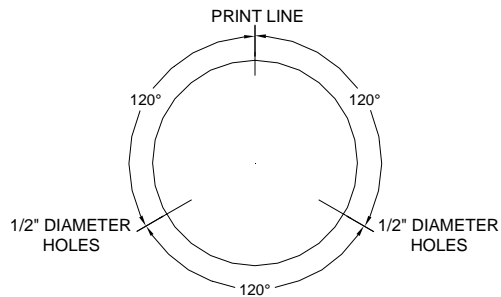
## PIPE DIMENSIONS

Nominal Size (in)	Outside Diameter, OD (in)	Wall Thickness, t (in)	Average Bell Depth, BD (in)	Pipe Length Plus Bell, L (m)
4	4.207 - 4.222	0.150 – 0.165	3.5	4.0
5	5.630 - 5.650	0.201 – 0.220	4	
6	6.264 - 6.285	0.224 – 0.252	4.5	



## OPTIONAL PERFORATIONS

It is possible to perforate the finished pipe product. The standard perforation pattern consists of 2 rows of 1/2" diameter holes, 120 degrees apart, on 6" centres, as shown in the sketch.



1/2" Diameter Holes-6" Spacing