

TECHNICAL SPECIFICATION

Royal CIOD Pressure Pipe Class 305 DR14

Cell classification 12454

SCOPE

This specification covers the requirements for PVC (polyvinyl chloride) pressure pipe with bell and spigot joints utilizing a double seal locked in (DSL) gasket. The pipe is Cast Iron Outside Diameter (CIOD) in nominal sizes of 4" – 12". This pipe meets the requirements of the American Water Works Association (AWWA) standard C900 and is certified to the Canadian Standards Association (CSA) standard B137.3, The National Sanitation Foundation (NSF) Standard 61-G, Underwriters Laboratories of Canada (ULC) and Factory Mutual (FM).

MATERIALS

The pipe is manufactured from virgin PVC compound meeting the cell classification requirements of 12454 as defined by the American Society of Testing and Materials (ASTM) Standard D1784: *Standard Specification for Rigid PVC Compounds and CPVC Compounds*. These compounds have a hydrostatic design basis rating of 4000 psi for water at 73.4 Deg F. The compound is certified to NSF Standard 61-G.

MARKING

Pipe markings are as specified by CSA, AWWA, NSF, FM and ULC.

PIPE

The pipe is manufactured for pressure class 305 as defined by AWWA C900.

GASKETS

The pipe utilizes a double seal locked (DSL) gasket system that meets the requirements of ASTM D3139: *Standard Specification for Joints for Plastic Pressure 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 AWWA, NSF, FM and ULC.

PIPE DIMENSIONS

Nominal Size in (mm)	Outside Diameter (OD) in	Wall Thickness (t) in	Pipe Length (L) (Plus Bell) ft (mm)
4 (100)	4.791-4.809	0.343-0.381	20 (6096)
6 (150)	6.890-6.911	0.493-0.551	
8 (200)	9.039-9.065	0.646-0.724	
10 (250)	11.087-11.114	0.793-0.885	
12 (300)	13.185-13.215	0.943-1.056	

