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## TECHNICAL SPECIFICATION

### IPS Pressure Pipe Series 200 SDR21 Gasketed

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 Iron Pipe Size (IPS) in nominal sizes of 1-1/2" – 12". This pipe meets the requirements of American Society of Testing and Materials (ASTM) standard D 2241 and is certified to the Canadian Standards Association (CSA) standard B137.3 and The National Sanitation Foundation (NSF) standard 14.

### **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*. This compound has a hydrostatic design basis rating of 4000 psi for water at 73.4 Deg F. The compound is certified to NSF Standard 61.

### **MARKING**

Pipe markings are as specified in CSA B137.3, NSF 14 and ASTM D 2241.

### **PIPE**

The pipe has a pressure rating of 200 psi at 73 Degrees F.

### **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 Control program and in accordance with the applicable CSA, NSF and ASTM standards.

## PIPE DIMENSIONS

Nominal Size (in)	Outside Diameter (in)	Wall Thickness (in)	Average Bell Depth (in)	Pipe Length (in)
1-1/2	1.894 – 1.906	0.090 – 0.110	4-1/4"	20' Plus Bell
2	2.369 – 2.381	0.113 – 0.133	4-3/4"	20' Plus Bell
2-1/2	2.868 – 2.882	0.137 – 0.157	5"	20' Plus Bell
3	3.492 – 3.508	0.167 – 0.187	5"	20' Plus Bell
4	4.491 – 4.509	0.214 – 0.240	6"	20' Plus Bell
6	6.614 – 6.636	0.316 – 0.354	7-1/4"	20' Plus Bell
8	8.610 – 8.637	0.410 – 0.459	8-1/4"	20' Plus Bell
10	10.736 – 10.763	0.511 – 0.571	8-1/4"	20' Plus Bell
12	12.735 – 12.765	0.606 – 0.679	10-1/4"	20' Plus Bell