



Royal Pipe Systems

Great Ideas Taking Shape.

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TECHNICAL SPECIFICATION

IPS Pressure Pipe Series 160 SDR26 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 D2241 and is certified to the Canadian Standards Association (CSA) standard B137.3 and The National Sanitation Foundation (NSF) standards 14 and 61.

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.

MARKING

Pipe markings are as specified in CSA B137.3, NSF 14, 61 and ASTM D2241.

PIPE

The pipe has a pressure rating of 160 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*. Standard gasket material is Butadiene Styrene (SBR). Gaskets with Nitrile (NBR) material can be substituted upon request-contact Royal for more information.

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	0.080 – 0.100	4-1/4"	20' Plus Bell
2	2.369 – 2.381	0.091 – 0.111	4-3/4"	20' Plus Bell
2-1/2	2.868 – 2.882	0.110 – 0.130	5"	20' Plus Bell
3	3.492 – 3.508	0.135 – 0.155	5"	20' Plus Bell
4	4.491 – 4.509	0.173 – 0.193	6"	20' Plus Bell
6	6.614 – 6.636	0.255 – 0.286	7-1/4"	20' Plus Bell
8	8.610 – 8.637	0.332 – 0.372	8-1/4"	20' Plus Bell
10	10.736 – 10.763	0.413 – 0.463	8-1/4"	20' Plus Bell
12	12.735 – 12.765	0.490 – 0.547	10-1/4"	20' Plus Bell