

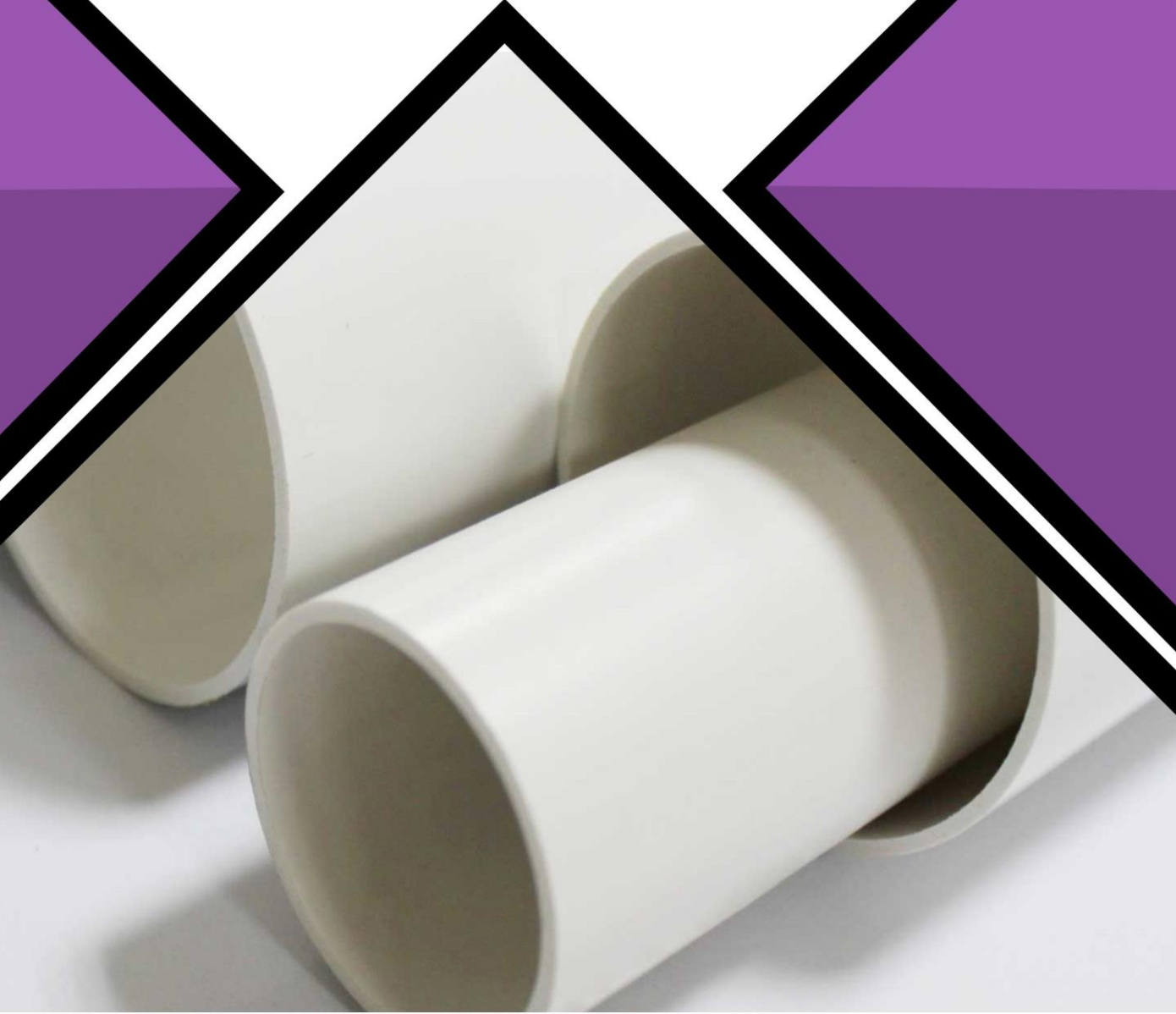


ROYAL PVC Co.LTD

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SECTION 03

Royal PVC Sewerage, Waste
& Ventilation Pipe





ROYAL PVC SEWERAGE PIPE

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Standards, Range, Applications& Advantages

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Table of dimensions, Tolerance....for Sewerage pipe



STANDARDS:

- ASTM D 2665 - 04a&2
- ASTM D 3034 - 98
- BSS 3505 O Class
- Din 19534

RANGE:

Nominal Diameter:

- From 1-1/4" to 24"

Royal PVC Sewerage pipes are supplied in plain, and socket ends with or without provision or rubber rings.

APPLICATIONS

- Sewerage main (gravity flow)
- Drainage installation, domestic and industrial uses.
- Fume Extraction duct.
- Land drainage.
- Horticultural and green house irrigation system.



ADVANTAGES OF ROYAL PVC SEWERAGE PIPE

PVC pipe have a number of technical advantage over other systems:

1. IT IS NOT CORRODED

PVC Pipe do not corrode and are totally unaffected by Acids, Alkalies and electrolytic corrosion from any source. In this respect they out class any other pipes material including stainless steel. Infact PVC is virtually unaffected by water.

2. IT IS LIGHT IN WEIGHT EASY AND QUICK TO INSTALL

Pipe made from PVC are only about 1/5 the weight of an equivalent cast iron pipe and from 1/3 to 1/4 the weight for an equivalent cement pipe. Thus, the cost of transportation and installation is cut down enormously.

3. IT HAS AN EXCELLENT HYDRAULIC CHARACTERISTIC

PVC Pipe have extremely smooth bore due to which frictional losses are at minimum and flow rates are at the highest possible from any other pipe materials.

4. IT IS NON FLAMMABLE

PVC Pipe is self extinguishing and it does not support combustion.

5. IT IS RESISTANCE TO BIOLOGICAL GROWTH

Due to smoothness of inner surface of PVC Pipe, it prevents Algae, bacteria and fungi formation inside the pipe.

6. LONG LIFE

The established aging factor of the commonly used pipe is not applicable on PVC Pipe. A 100 years safe life estimated for PVC Pipe.



ASTM D2665- 4a

Dimensions and Tolerance for outside Diameters and thickness of PVC Plastic Drain, Waste and Ventilation Pipe.

Nominal Pipes Size Inch	Outside Diameter		Wall Thickness		
	Average Mm	Tolerance on average Mm	Out Of Roundness (Maximum minus minimum)	Minimum Mm	Tolerance mm
1 1/4	(42.16)	±0.13	0.61	3.56	+0.51 -0.000
1 1/2	(48.26)	±0.15	0.61	3.68	+0.51 - 0.000
2	(60.33)	±0.15	0.61	3.91	+0.51 -0.000
3	88.90	±0.20	0.76	5.49	+0.66 -0.000
4	114.30	±0.23	2.54	6.02	+0.71 -0.000
6	168.28	±0.28	2.54	7.11	+0.86 -0.000
8	219.08	±0.38	3.81	8.18	+0.99 -0.000
10	273.07	±0.38	3.81	9.27	+1.12 -0.000
12	323.85	±0.38	3.81	10.31	+1.24 -0.000
14	355.60	±0.38	5.08	11.1	+1.35 -0.000
16	406.40	+0.48	8.13	12.7	+1.52 -0.000
18	457.20	+0.48	9.20	14.27	+1.71 -0.000

ASTM D2665-4a

Minimum Hydrostatic Burst Pressure Psi Kpi (.:1 Psi=6.89 kpa)		
1 ¼	1180	8140
1 ½	1060	7310
2	890	6140
3	840	5790
4	710	4900
6	560	3680
8	500	3450
10	450	3100
12	420	2890
14	410	2830
16	410	2830
18	410	2830

*These burst Pressure are calculated using a hoop stress of 6400 psi (44.1 Mpa)

D 3034

Standard Specification for
Poly Vinyl Chloride (PVC) Sewer Pipe

Outside Diameter			Minimum Wall ThicknessA			
Nominal Size	Average	Tolerance on Average	SDR 41	SDR 35	SDR 26	SDR 23.5
4"	4.215	±0.009		0.120	0.162	0.178
6"	6.275	±0.011	0.153	0.180	0.241	0.265
8"	8.400	±0.012	0.205	0.240	0.323	...
10"	10.500	±0.015	0.256	0.300	0.404	...
12"	12.500	±0.018	0.305	0.360	0.481	...

F 679 - 03

Standard Specification for:

Poly (Vinyl Chloride) (PVC) Large-Diameter Plastic Gravity Sewer Pipe

Casketed Joint System

ASTM F 679 Standard

(Pipe Outside Dimensions and Minimum Pipe Stiffness)

Nominal Pipes Size Inch	Outside Diameter				Wall Thickness				Min Pipe Stiffness	
	Average		Tolerance on average		T-1A		T-2B		Psi	kPa
	IN	(MM)	IN	(MM)	in.	(mm)	in.	(mm)		
18	18.71	(475)	±0.028	(±0.71)	0.536	(13.6)	0.499	(12.7)	46	(320)
21	22.047	(560)	±0.033	(±0.84)	0.632	(16.0)	0.588	(14.9)	46	(320)
24	24.803	(630)	±0.037	(±0.94)	0.711	(18.1)	0.661	(15.5)	46	(320)
18	18.71	(475)	±0.028	(±0.71)	0.720	(18.3)	0.671	(17.0)	115	(790)
21	22.047	(560)	±0.033	(±0.84)	0.849	(21.6)	0.791	(20.1)	115	(790)
24	24.803	(630)	±0.037	(±0.94)	0.956	(24.3)	0.889	(25.5)	115	(790)





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COMPANY PROFILE & THCHNICAL MANUAL

- Royal PVC Pressure Pipe
- Royal PVC Electrical Conduit
- Royal PVC Sewerage Pipe
- Royal PVC Fittings
- Royal HDPE Pipe
- Royal PPRC Pipe & Fittings