ULTRA-RIB PIPING SYSTEMS

Ultra-Rib®

IPEX Ultra-Rib® is a gravity flow PVC sewer pipe with concentric reinforcing ribs that encircle the pipe to provide superior ring stiffness and performance. It is an extruded, seamless pipe made from high grade PVC compound.

Ultra-Rib is available in standard sewer sizes from 200mm to 600mm (8" - 24"). Its optimized profile design offers strength and reliability, as well as economy and superior flow rates.

APPLICATIONS

- Sanitary and Storm Sewers
- Industrial Lines
- Highway & Culvert

STANDARDS







D1784

3624-135

B182.4

ADVANTAGES

1 Tight Joints and Lower Treatment Costs

Eliminate infiltration and exfiltration. Ultra-Rib's 50 psi capable joints easily outperform concrete and corrugated PE joints.

2 Superior Flow Characteristics

Because of the smooth inside wall of Ultra-Rib, a Manning's number of 0.009 can be used when designing systems using Ultra-Rib pipe. This compares with Manning's numbers of up to 0.023 for other materials like clay or concrete.

(3) Abrasion Resistance

Ultra-Rib has been proven to be more abrasion-resistant than other profile pipes, and has out-performed concrete pipe in testing at California State University.

4 Chemical Resistance

PVC is virtually immune to chemical attack from any type of sewage. Hydrogen sulphide attack, which causes millions of dollars of damage to concrete and metal infrastructure, will not affect Ultra-Rib.

5 Stress Crack Resistance

While some HDPE pipes have been found to crack prematurely under load, Ultra-Rib's tough PVC construction and superior formulation has been proven to be immune to these problems.



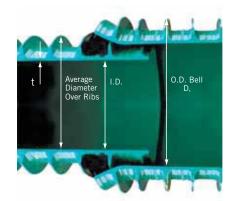
Ultra-Rib's seamless 'Open Profile' wall has the same stiffness as DR35, but with a more efficient use of structural material.





DIMENSIONS

	ipe iize	Aver I.D		Average I Over F		O.D. a		Waterw t	ay Wall
in	mm	in	mm	in	mm	in	mm	in	mm
8	200	7.89	200	8.80	224	9.78	248	0.087	2.20
10	250	9.86	251	11.00	280	12.22	311	0.091	2.30
12	300	11.74	298	13.10	333	14.59	371	0.102	2.60
15	375	14.37	365	16.04	408	17.82	453	0.110	2.80
18	450	17.65	448	19.57	497	21.77	553	0.130	3.30
21	525	20.75	527	22.80	579	25.14	638	0.160	4.06
24	600	23.50	597	25.61	650	28.24	717	0.180	4.58



SHORT FORM SPECIFICATIONS

GENERAL

IPEX Ultra-Rib PVC Pipe is available in sizes 200mm, 250mm, 300mm, 375mm, 450mm, 525mm and 600mm (8" - 24").

MATERIAL

Ultra-Rib PVC Pipe shall be made of PVC compound having a cell classification of 12454B as defined in ASTM D1784B.

PRODUCT

The pipe shall be extruded with a smooth interior and with solid reinforcing ribs on the exterior at right angles to the pipe. The space between any two ribs serves as a gasket race.

Ultra-Rib PVC pipe and fittings shall be certified to CSA B182.4 "Profile (Ribbed) PVC Sewer Pipe and Fittings", and shall meet the requirements of ASTM F794 "Standard Specification for Poly (Vinyl Chloride) (PVC) Ribbed Gravity Sanitary Pipe and Fittings Based on Controlled Inside Diameter".

PIPE STIFFNESS

Pipe stiffness must be 320 kPa (46 lbs/in of sample length per inch of deflection) at 5% vertical deflection when tested according to ASTM D2412.

JOINTS

Gaskets for use with Ultra-Rib pipe are manufactured from EPDM and are designed specifically for use with Ultra-Rib pipe.

This unique design is also available in Nitrile.

Sealing gaskets shall meet the requirements of CSA B182.4 and ASTM F477, with the additional requirement that joints shall be

able to withstand 345 kPa (50 psi) hydrostatic pressure.

The joint will not leak at 10.8 psi or 25' (74 kPa) or 7.5m) of head with –74 kPa (22") Hg vacuum with spigot under 5% ring deflection and joint at full axial deflection.

MOULDED FITTINGS

Injection-moulded gasketed PVC fittings of ribbed construction shall be certified to CSA B182.1 or CSA B182.2 and used for direct connection to Ultra-Rib pipes in available sizes.

FABRICATED FITTINGS

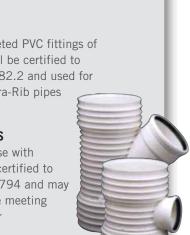
Fittings fabricated for use with Ultra-Rib pipe shall be certified to CSA B182.4 or ASTM F794 and may include legs of PVC pipe meeting CSA B182.1, B182.2 or ASTM D3034 or F679.

LUBRICANT

Assembly of Ultra-Rib pipe and fittings shall be done in accordance with the manufacturer's directions using only IPEX PVC pipe lubricant. Substitute lubricants shall not be used. IPEX lubricant shall be applied to the inside of the bell to be joined, to a uniform thickness for a distance inside the bell equivalent to three ribs from outside edge.

COLOUR CODING

Pipe shall be colour-coded green.



Tee B x B x B (Ultra-Rib x Ultra-Rib x	Ultra-Rib)
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8	200	087100
10 x 8	250 x 200	087101
10	250	087102
12 x 8	300 x 200	087103
12 x 10	300 x 250	087104
12	300	087105
15 x 8	375 x 200	087106
15 x 10	375 x 250	087107
15 x 12	375 x 300	087108
15	375	087109
18 x 8	450 x 200	087110
18 x 10	450 x 250	087111
18 x 12	450 x 300	087112
18 x 15	450 x 375	087113
18	450	087114
21 x 8	525 x 200	087115
21 x 10	525 x 250	087116
21 x 12	525 x 300	087117
21 x 15	525 x 375	087118
21 x 18	525 x 450	087119
21	525	087120
24 x 8	600 x 200	087121
24 x 10	600 x 250	087720
24 x 12	600 x 300	087123
24 x 15	600 x 375	087124
24 x 18	600 x 450	087125
24 x 21	600 x 525	087126
24	600	087127

Tee $B \times B \times G$ (





8 x 4	200 x 100	08715
8 x 5	200 x 135	08715
8 x 6	200 x 150	08715
8	200 x 130	08715
10 x 4	250 x 100	08715
10 x 5	250 x 135	08715
10 x 6	250 x 150	08715
10 x 8	250 x 150 250 x 200	
	300 x 100	08715
12 x 4		08715
12 x 5	300 x 135	08716
12 x 6	300 x 150	08716
12 x 8	300 x 200	08716
12 x 10	300 x 250	08716
12	300	08716
15 x 4	375 x 100	08716
15 x 5	375 x 135	08716
15 x 6	375 x 150	08716
15 x 8	375 x 200	08716
15 x 10	375 x 250	08716
15 x 12	375 x 300	08717
18 x 4	450 x 100	08717
18 x 5	450 x 135	08717
18 x 6	450 x 150	08717
18 x 8	450 x 200	08717
18 x 10	450 x 250	08717
18 x 12	450 x 300	08717
18 x 15	450 x 375	08717
18	450	08717
21 x 4	525 x 100	08718
21 x 5	525 x 135	08718
21 x 6	525 x 150	08718
21 x 8	525 x 200	08718
21 x 10	525 x 250	08718
21 x 12	525 x 300	08718
21 x 15	525 x 375	08718
21 x 18	525 x 450	08718
21 × 10	525 x 430	08718
24 x 4	600 x 100	08719
24 x 5	600 x 100	08719
24 x 5	600 x 150	08719
24 x 8	600 x 200	08719
24 x 10	600 x 250	08719
24 x 12	600 x 300	08719
0410		
24 x 18 24 x 21	600 x 450 600 x 525	08719 08719