

ULTRA-RIB PIPING SYSTEMS

8" - 24" (200mm - 600mm)

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
F477



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.



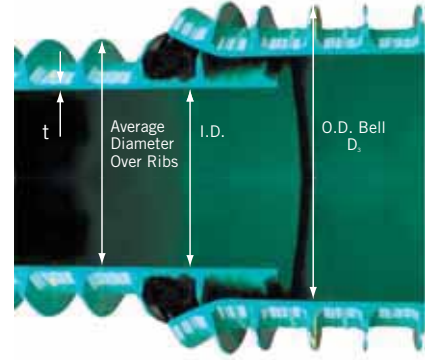
DID YOU KNOW?

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



DIMENSIONS

Pipe Size		Average I.D. d		Average Diameter Over Ribs D		O.D. at Bell D ₃		Waterway Wall t	
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.

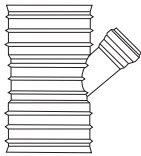
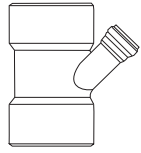
COLOUR CODING

Pipe shall be colour-coded green.



	Dimension		Product Code
	inches	mm	

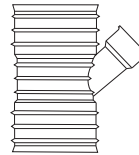
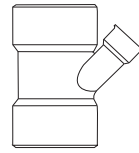
Wye B x B x G (Ultra-Rib x Ultra-Rib x DR35 or 28)



8 x 4	200 x 100	087250
8 x 5	200 x 135	087251
8 x 6	200 x 150	087252
8	200	087253
10 x 4	250 x 100	087254
10 x 5	250 x 135	087255
10 x 6	250 x 150	087256
10 x 8	250 x 200	087257
10	250	087258
12 x 4	300 x 100	087259
12 x 5	300 x 135	087260
12 x 6	300 x 150	087261
12 x 8	300 x 200	087262
12 x 10	300 x 250	087263
12	300	087264
15 x 4	375 x 100	087265
15 x 5	375 x 135	087266
15 x 6	375 x 150	087267
15 x 8	375 x 200	087268
15 x 10	375 x 250	087269
15 x 12	375 x 300	087270
15	375	087271
18 x 4	450 x 100	087272
18 x 5	450 x 135	087273
18 x 6	450 x 150	087274
18 x 8	450 x 200	087275
18 x 10	450 x 250	087276
18 x 12	450 x 300	087277
18 x 15	450 x 375	087278
18	450	087279
21 x 4	525 x 100	087235
21 x 5	525 x 135	087236
21 x 6	525 x 150	087237
21 x 8	525 x 200	087238
21 x 10	525 x 250	087239
21 x 12	525 x 300	087240
21 x 15	525 x 375	087241
21 x 18	525 x 450	087242
21	525	087243
24 x 4	600 x 100	087360
24 x 5	600 x 135	087359
24 x 6	600 x 150	087361
24 x 8	600 x 200	087362
24 x 10	600 x 250	087363
24 x 12	600 x 300	087364
24 x 15	600 x 375	087365
24 x 18	600 x 450	087366
24 x 21	600 x 525	087367
24	600	087368

	Dimension		Product Code
	inches	mm	

Wye B x B x B (Ultra-Rib x Ultra-Rib x Ultra-Rib)



8	200	087280
10 x 8	250 x 200	087281
10	250	087282
12 x 8	300 x 200	087283
12 x 10	300 x 250	087284
12	300	087285
15 x 8	375 x 200	087286
15 x 10	375 x 250	087287
15 x 12	375 x 300	087288
15	375	087289
18 x 8	450 x 200	087290
18 x 10	450 x 250	087291
18 x 12	450 x 300	087292
18 x 15	450 x 375	087293
18	450	087294
21 x 8	525 x 200	087295
21 x 10	525 x 250	087296
21 x 12	525 x 300	087297
21 x 15	525 x 375	087298
21 x 18	525 x 450	087299
21	525	087316
24 x 8	600 x 200	087317
24 x 10	600 x 250	087318
24 x 12	600 x 300	087319
24 x 15	600 x 375	087320
24 x 18	600 x 450	087321
24 x 21	600 x 525	087322
24	600	087323