



POLYETHYLENE PIPE SYSTEMS

POTABLE WATER PIPE

// Quality assured // Large size range // Full product support // AS/NZS 4130 // Pressure options



STORMWATER SEWER GAS **POTABLE WATER** POWER & COMMUNICATION RURAL



Waters and Farr are a long established New Zealand manufacturer of PE piping for potable water applications.

Quality, range and product support are all part of the package. Service, especially on non-standard pipes is what Waters and Farr are well regarded for, but we offer solutions for all applications up and down the country.

DEFINITIONS

SDR

- » Standard Dimension Ratio - a nominal ratio of the pipe outside diameter to its wall thickness.

Working pressure

- » Maximum pressure that can be sustained by the class of pipe for its estimated useful life under the expected working conditions.

PN

- » Nominal working pressure designated in bar.

PE 80B and PE 100 compounds to AS/NZS 4131.

CLASSIFICATION

*For Series 1
Polyethylene Pressure
Pipes to AS/NZS 4130*

PN	Nominal Working Pressure at 20°C				SDR	
	MPa	kPa	bar	p.s.i.	PE 80B	PE 100
3.2	0.32	320	3.2	46	SDR 41	–
4	0.40	400	4.0	58	SDR 33	SDR 41
6.3	0.63	630	6.3	91	SDR 21	SDR 26
8	0.80	800	8.0	116	SDR 17	SDR 21
10	1.00	1000	10.0	145	SDR 13.6	SDR 17
12.5	1.25	1250	12.5	181	SDR 11	SDR 13.6
16	1.60	1600	16.0	232	SDR 9	SDR 11
20	2.00	2000	20.0	290	–	SDR 9
25	2.50	2500	25.0	362	–	SDR 7.4

ADVANTAGES

Advantages of correctly designed and installed polyethylene pipe systems using Waters & Farr products include:

- » Inert, corrosion free pipe material
- » Low specific weight
- » Low installation and maintenance costs
- » Leak free welded construction
- » Good resistance to impacts, ground movement
- » Excellent toughness and abrasion resistance
- » Flexibility
- » Long design life.

Please also see our range of PE pipe for drainage and sewer applications, as well as our fittings selection.

DIMENSIONS: POLYETHYLENE PIPES

SERIES 1 TO AS/NZS 4130

Standard Dimension Ratio			SDR 11		SDR 13.6	
PE 80B			PN 12.5		PN 10	
PE100			PN 16		PN 12.5	
DN	Pipe outside diameter (OD)		Average wall thickness	Mean inside diameter (ID)	Average wall thickness	Mean inside diameter (ID)
	min.	max.	min.	max.	min.	max.
25	25.0	25.3	2.5	20.1	2.1	21.0
32	32.0	32.3	3.1	25.9	2.6	26.9
40	40.0	40.4	4.0	32.3	3.2	33.8
50	50.0	50.5	4.9	40.4	4.0	42.3
63	63.0	63.6	6.2	51.0	5.0	53.3
75	75.0	75.7	7.2	60.9	5.9	63.6
90	90.0	90.9	8.7	73.0	7.0	76.4
110	110.0	111.0	10.6	89.4	8.6	93.3
125	125.0	126.2	12.1	101.5	9.8	106.1
140	140.0	141.3	13.4	113.8	10.9	118.8
160	160.0	161.5	15.4	129.9	12.5	135.8
180	180.0	181.7	17.3	146.2	14.1	152.7
200	200.0	201.8	19.2	162.5	15.5	169.9
225	225.0	227.1	21.6	182.8	17.5	191.0
250	250.0	252.3	23.9	203.3	19.4	212.3
280	280.0	282.6	26.8	227.8	21.7	237.9
315	315.0	317.9	30.1	256.2	24.5	267.5
355	355.0	358.2	33.9	288.8	27.5	301.6
400	400.0	403.6	38.2	325.4	31.0	339.9
450	450.0	454.1	43.0	366.0	34.9	382.3

PIPES: WATER

OTHER SDR/PRESSURE RATED PIPE AVAILABLE ON REQUEST

BLUE PIPE COILS PE80B SDR11 PN12.5 MDPE OR BLUE JACKET (WJ)

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
W20.11.25	20	1.9	16.0	25
W20.11.50	20	1.9	16.0	50
W20.11.100	20	1.9	16.0	100
W25.11.25	25	2.3	20.1	25
W25.11.50	25	2.3	20.1	50
W25.11.100	25	2.3	20.1	100
W32.11.25	32	2.9	25.9	25
W32.11.50	32	2.9	25.9	50
W32.11.100	32	2.9	25.9	100
W40.11.25	40	3.7	32.3	25
W40.11.50	40	3.7	32.3	50
W40.11.100	40	3.7	32.3	100
W50.11.25	50	4.6	40.4	25
W50.11.50	50	4.6	40.4	50
W50.11.100	50	4.6	40.4	100
W63.11.25	63	5.8	51.0	25
W63.11.50	63	5.8	51.0	50
W63.11.100	63	5.8	51.0	100
W90.11.50	90	8.2	73.0	50
W90.11.100	90	8.2	73.0	100



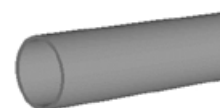
BLACK-BLUE JACKET PIPE COILS PE80B SDR11 PN12.5 MDPE

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WJ110.11.50	110	10.0	89.4	50
WJ110.11.100	110	10.0	89.4	100
WJ125.11.50	125	11.4	101.5	50
WJ125.11.100	125	11.4	101.5	100



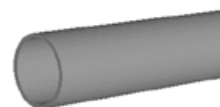
BLUE PIPE LENGTHS PE80B SDR11 PN12.5 MDPE OR BLUE JACKET (WJ)

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Pipe Length (m)
W20.11.5	20	1.9	16.0	5
W25.11.5	25	2.3	20.1	5
W32.11.5	32	2.9	25.9	5
W40.11.5	40	3.7	32.3	5
W50.11.5	50	4.6	40.4	5
W63.11.5	63	5.8	51.0	5



BLACK-BLUE JACKET PIPE LENGTHS PE80B SDR11 PN12.5 MDPE

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Pipe Length (m)
WJ125.11.6	125	11.4	101.5	6
WJ125.11.12	125	11.4	101.5	12
WJ180.11.6	180	16.4	146.2	6
WJ180.11.12	180	16.4	146.2	12
WJ250.11.6	250	22.7	203.3	6
WJ250.11.12	250	22.7	203.3	12

**BLUE PIPE COILS PE100 SDR11 PN16 HDPE**

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WH25.11.100	25	2.3	20.1	100
WH63.11.25	63	5.8	51.0	25
WH63.11.50	63	5.8	51.0	50
WH63.11.100	63	5.8	51.0	100

Other diameters are available on request

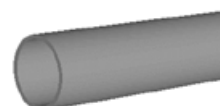
**BLACK-BLUE STRIPED PIPE COILS PE100 SDR11 PN16 HDPE**

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WHS25.11.25	25	2.3	20.1	25
WHS25.11.50	25	2.3	20.1	50
WHS25.11.100	25	2.3	20.1	100
WHS32.11.25	32	2.9	25.9	25
WHS32.11.50	32	2.9	25.9	50
WHS32.11.100	32	2.9	25.9	100
WHS50.11.25	50	2.9	25.9	25
WHS50.11.50	50	2.9	25.9	50
WHS50.11.100	50	2.9	25.9	100
WHS63.11.25	63	5.8	51.0	25
WHS63.11.50	63	5.8	51.0	50
WHS63.11.100	63	5.8	51.0	100

**BLACK-BLUE STRIPED PIPE LENGTHS PE100 SDR11 PN16 HDPE**

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Pipe Length (m)
WHS125.11.6	125	11.4	101.5	6
WHS125.11.12	125	11.4	101.5	12
WHS180.11.6	180	16.4	146.2	6
WHS180.11.12	180	16.4	146.2	12

Black-Blue Jacket PE100 SDR11 PN16 other diameters are available on request



BLACK PIPE COILS PE100 SDR13.6 PN12.5 HDPE

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WHB110.13.100	110	8.1	93.3	100
WHB125.13.100	125	9.2	106.1	100

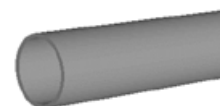
**BLACK-BLUE JACKET PIPE COILS** PE100 SDR13.6 PN12.5 HDPE

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WJH110.13.100	110	8.1	93.3	100
WJH125.13.100	125	9.2	106.1	100

**BLACK PIPE LENGTHS** PE100 SDR13.6 PN12.5 HDPE

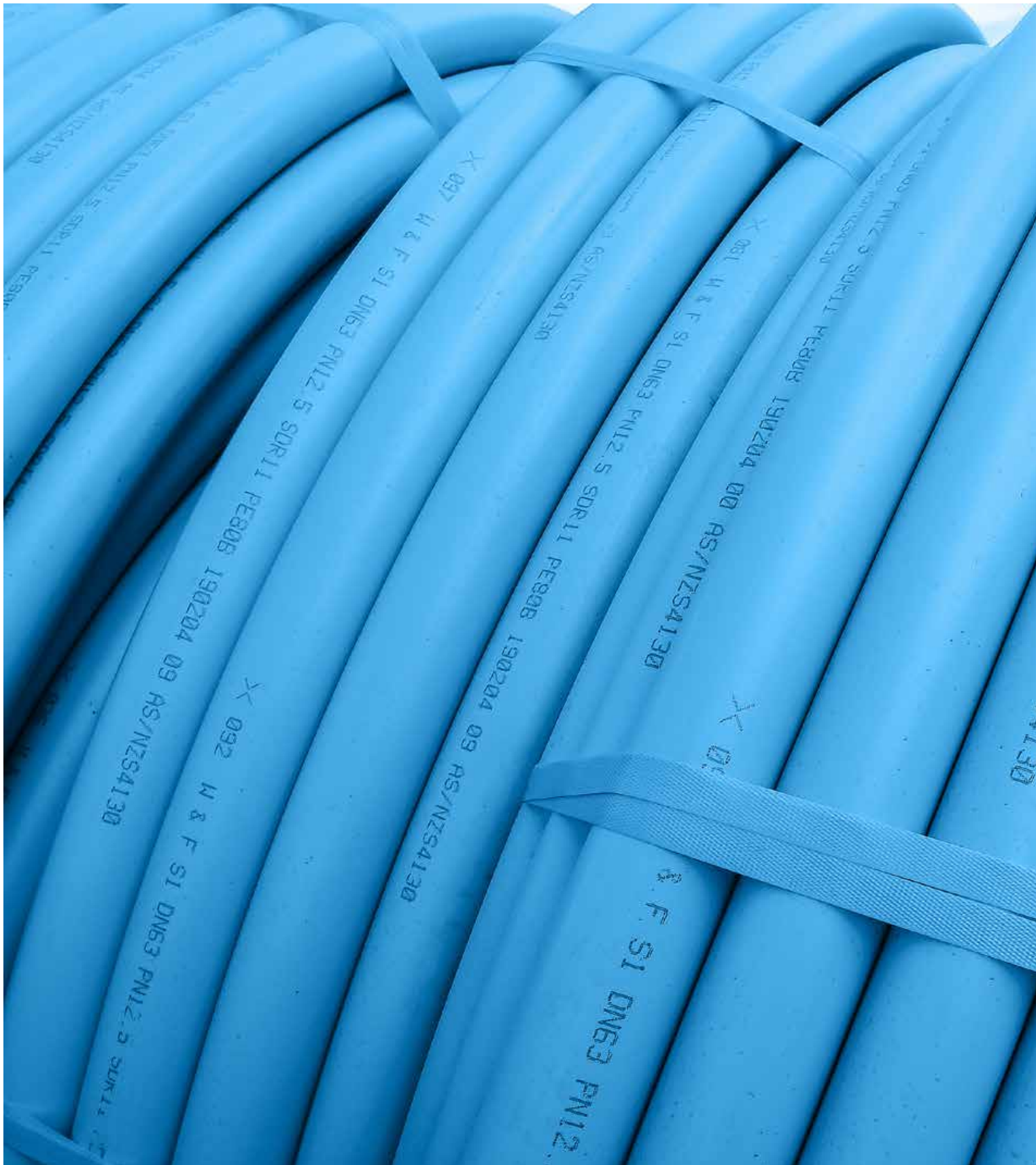
Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Pipe Length (m)
WHB110.13.12	110	8.1	93.3	12
WHB125.13.12	125	9.2	106.1	12
WHB180.13.12	180	13.3	152.7	12
WHB225.13.12	225	16.6	191.0	12
WHB250.13.12	250	18.4	212.3	12
WHB280.13.12	280	20.6	237.9	12
WHB315.13.12	315	23.2	267.5	12
WHB355.13.12	355	26.1	301.6	12
WHB400.13.12	400	29.4	339.9	12
WHB450.13.12	450	33.1	382.3	12

Other diameters are available on request

**BLACK-BLUE JACKET PIPE LENGTHS** PE100 SDR13.6 PN12.5 HDPE

Item Code	Size (OD) (mm)	Minimum Wall Thickness (mm)	Average Bore (ID) (mm)	Coil Length (m)
WJH110.13.12	110	8.1	93.3	12
WJH125.13.12	125	9.2	106.1	12
WJH180.13.12	180	13.3	152.7	12
WJH250.13.12	250	18.4	212.3	12

Other diameters are available on request



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