

Polyethylene Pipe Systems

GAS

IMPERIAL & METRIC POLYETHYLENE

Issue: March 2017





ABOUT WATERS & FARR

Established in 1954, Waters & Farr is a leading manufacturer of polyethylene and polypropylene pipes for infrastructure and rural application.

Overview

Manufacturing plants in Whanganui and Rangiora supported by distribution centres in Auckland, Whanganui and Christchurch supply our merchant and utilities customers with product throughout New Zealand. Over three hundred merchant stockists ensure stock is readily available for contractors, farmers and other end users.

Waters & Farr is always looking to the future. Plant upgrades have seen modern extrusion lines installed with higher outputs, jacket and stripe capability, and a range extension to 1200 mm diameter.

Commitment to quality

- Waters & Farr maintain quality management system certification to ISO9001 standard.
- 'S' mark certification to AS/NZS 4130 and AS/NZS 5065 is maintained with a third party.
- Pipe Test NZ, a division of Waters & Farr, was established as an independent testing laboratory. It is accredited by IANZ to conduct tensile, pressure, reversion and joint testing for Waters & Farr, and third party pipe, electrofusion and butt weld testing.
- Waters & Farr follow founding policies that underpin commitment and performance outcomes to achieve our vision & values.

How To Find Us

PO Box 13329
Onehunga
Auckland, New Zealand
P 0800 923 7473
F +64 9 622 4037
www.watersandfarr.co.nz

Waters & Farr Terms and Conditions

Information or advice contained in this catalogue or obtained from Waters & Farr otherwise is given in good faith. Waters & Farr make no warranty or representation regarding the information, opinions and recommendations contained in this catalogue. Users of this catalogue are advised to seek and rely upon their own professional advice and assessment of the matters contained in this catalogue. Waters & Farr excludes all liability to any user of this catalogue for consequential or indirect damages, or any other form of compensation or relief whatsoever for any acts or omissions of Waters & Farr, arising out of or in connection with the use of this catalogue irrespective of whether the same arises at law, inequity or otherwise.



PRODUCT ATTRIBUTES

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
- High strength, durability and abrasion resistance
- Flexibility
- Long design life
- *"Polyethylene pipe is widely recognized as having good seismically resilient properties, which is supported by its performance in the 2010/2011 Canterbury earthquakes and earthquakes around the world."*

Source: SEISMIC PERFORMANCE OF PLASTIC PIPE SYSTEMS IN 2010/11 CANTERBURY EARTHQUAKES by Bill Noell, Water Services Infrastructure Lead, Pattle Delamore Partners.

POLYETHYLENE GAS PIPES

SERIES 3 TO AS/NZS 4130

DN / ID	Dimensions (Series 3 – Imperial)		SDR17	SDR11
	Pipe OD Min. (mm)	Pipe OD Max. (mm)	Min. wall thickness (mm)	Mean wall thickness (mm)
10	15.7	16.0	–	1.7
15	21.4	21.7	–	2.4
25	33.4	33.7	2.4	3.3
32	42.1	42.4	2.4	4.1
40	48.1	48.4	2.8	4.6
50	60.2	60.5	3.8	5.8
80	88.7	89.2	5.5	8.5
100	114.1	114.7	7.1	10.9
150	168.0	168.9	10.4	16.1
200	218.8	219.9	13.7	20.9

Note: Pipe >32 diameter is black bodied with a yellow jacket.

CLASSIFICATION

SERIES 3 NOMINAL ID (IMPERIAL) YELLOW PIPE COILS PE80B W&F SPEC.

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN 200mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

Item Code	Size DN/ID (mm)	Size (IPS) (inch)	Min. Wall Thickness (mm)	Coil Length (m)
G10.11.150	10	3/8" (or 1/2" CTS)	1.6	150
G15.9.150	15	1/2"	2.5	150



SERIES 3 NOMINAL ID (IMPERIAL) YELLOW PIPE COILS SDR11 PE80B

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN1200mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

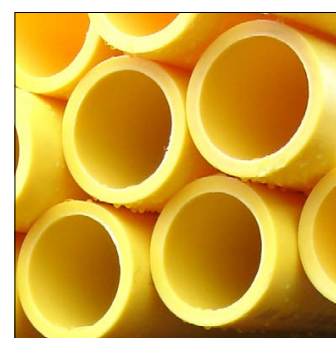
Item Code	Size DN/ID (mm)	Size (IPS) (inch)	Min. Wall Thickness (mm)	Coil Length (m)
G25.11.150	25	1"	3.1	150
G25.11.50	25	1"	3.1	50
G32.11.150	32	1 1/4"	3.9	150
G32.11.50	32	1 1/4"	3.9	50
GJ50.11.125	50	2"	5.5	125
GJ50.11.100	50	2"	5.5	100
GJ50.11.50	50	2"	5.5	50
GJ80.11.100	80	3"	8.1	100
GJ100.11.100	100	4"	10.4	100



SERIES 3 NOMINAL ID (IMPERIAL) YELLOW / YELLOW JACKETED PIPE LENGTHS PIPE LENGTHS SDR11 PE80B

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN1200mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

Item Code	Size DN/ID (mm)	Size (IPS) (inch)	Min. Wall Thickness (mm)	Coil Length (m)
G50.11.6	50	2"	5.5	6
G50.11.12	50	2"	5.5	12
G80.11.6	80	3"	8.1	6
G80.11.12	80	3"	8.1	12
G100.11.6	100	4"	10.4	6
G100.11.12	100	4"	10.4	12
G150.11.6	150	6"	16.1	6
G150.11.12	150	6"	16.1	12
G200.11.12	200	8"	20.9	12



SERIES 2 NOMINAL OD BLACK WITH YELLOW STRIPES PIPE COILS SDR11 PE100

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN 630mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

Item Code	Size DN/OD (mm)	Min. Wall Thickness (mm)	Coil Length (m)
GMH25.11.200	25	3.0	200
GMH40.11.200	40	3.7	200



SERIES 2 NOMINAL OD YELLOW PIPE COILS SDR17 PE80B

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN1200mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

Item Code	Size DN/OD (mm)	Min. Wall Thickness (mm)	Coil Length (m)
GM63.17.100	63	3.8	100
GM110.17.100	110	6.6	100
GM125.17.100	125	7.4	100



SERIES 2 NOMINAL OD YELLOW PIPE LENGTHS SDR17 PE80B

- ▶ Standard pipe DN/SDRs listed in AS/NZS4130, up to DN1200mm, are available ex stock or on order
- ▶ Delivery is available in coils, on drums and cut lengths, subject to diameter and wall thickness
- ▶ Pipe can be produced in solid yellow, yellow jacket or solid black with stripe as per AS/NZS 4130, or to special order.

Item Code	Size DN/OD (mm)	Min. Wall Thickness (mm)	Coil Length (m)
GM110.17.12	110	6.6	12



TRUCK CAPACITY PE100 PIPE FTL

Pipe Outside Diameter	Unit	SDR11 (kg/m)	Unit Weight (PN10) SDR11	Qty	Weight kg
*15	100m	0.076	7.6	250 coils	1,900
*20	100m	0.1119	11.19	250 coils	2,798
25	100m	0.124	12.4	250 coils	3,100
32	100m	0.186	18.6	250 coils	4,650
40	100m	0.295	29.5	125 coils	3,688
50	100m	0.454	45.4	125 coils	5,675
63	100m	0.724	72.4	125 coils	9,050
75	100m	1.021	102.1	20 coils	2,042
90	100m	1.469	146.9	20 coils	2,938
110	100m	2.185	218.5	20 coils	4,370
125	100m	2.788	278.8	20 coils	5,576
140	100m	3.499	349.9	20 coils	6,998
110	14m	2.185	30.6	324	9,911
125	14m	2.788	39.0	256	9,992
140	14m	3.499	49.0	196	9,601
160	14m	4.5677	63.9	144	9,208
180	14m	5.7783	80.9	121	9,788
200	14m	7.129	99.8	100	9,981
225	14m	9.0429	126.6	81	10,255
250	14m	11.0823	155.2	64	9,930
280	14m	13.923	194.9	56	10,916
315	14m	17.631	246.8	36	8,886
355	14m	22.4364	314.1	25	7,853
400	14m	28.357	397.0	25	9,925
450	14m	35.9287	503.0	16	8,048
500	14m	44.258	619.6	16	9,914
560	14m	55.6126	778.6	9	7,007
630	14m	70.2675	983.7	9	8,854
710	14m	89.3688	1251.2	4	5,005
800	14m	113.3218	1586.5	4	6,346
900	14m	143.8259	2013.6	4	8,054
1000	14m	177.1649	2480.3	4	9,921
1200	14m	243.9462	3415.2	1	3,415

* Weights for ND 15-20 are based on PN16. PN12

Note: table is based on FTL with timber dunnage, adjustments may be required for Ferry, Curtainside trucks, where shipment height can exceed 2.2m or on private roads

Colour	Common Use
Blue	Potable Water
Orange	Electrical Conduit
Yellow	Gas PE100
Light Yellow	Gas PE 80
Green	Rural/Raw Water
Purple	Reclaimed Water
Cream	Pressure Sewer
Light Green	Communication
Light Grey	Communication
Red	Fibre optic

This table is guide, refer AS/NZS 4130 as to correct RAL colour codes and stripe/jacket format for pressure pipes. Waters and Farr is able to supply pipe either solid colour, or with a colour jacket or striped as per standard.

Polyethylene Pipe System
Gas Product Catalogue
Issue: March 2017

www.watersandfarr.co.nz

0800 923 7473


WATERS & FARR