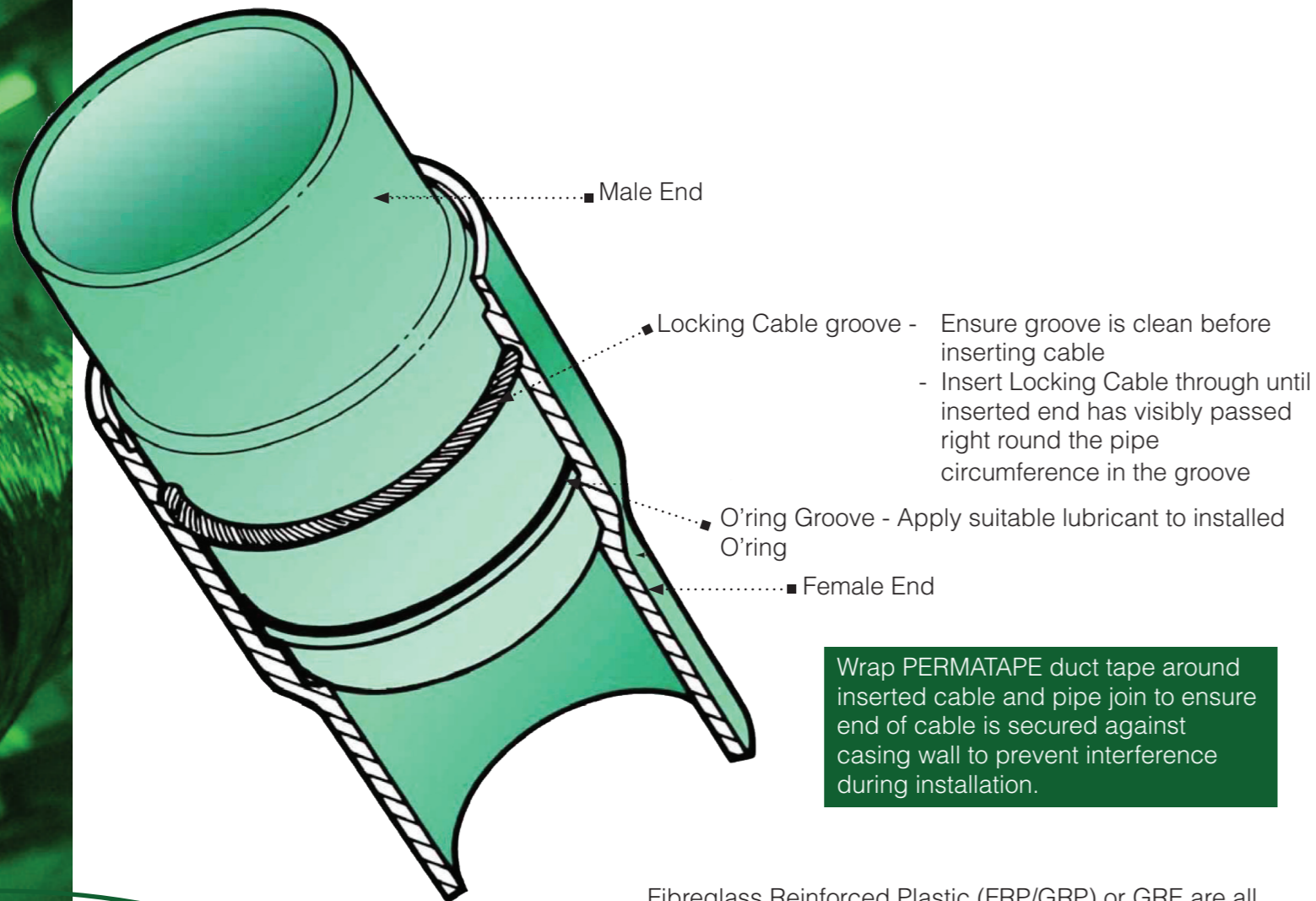


## Basic Instructions for joining Permaglass FRP BORE CASING

Permaglass FRP BORE CASING is joined using the Kwik-Lok joint which consists of an O'ring for pressure sealing and a 316 Stainless Steel Locking Cable.



Wrap PERMATAPE duct tape around inserted cable and pipe join to ensure end of cable is secured against casing wall to prevent interference during installation.

Fibreglass Reinforced Plastic (FRP/GRP) or GRE are all material names for "Fibreglass" Pipe. Permaglass FRP BORE CASING is a high quality Fibreglass Pipe which has been used in Australian and overseas bore installations for over 25 years. Permaglass is made to Australian Standards and also incorporates Testing and Post Curing to ensure the highest quality and strength is achieved.



Manufactured by RPC Technologies Pty Ltd

Distributed by Advanced Pump Technologies Pty Ltd

[www.advancedpumps.com.au](http://www.advancedpumps.com.au)

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## PERMAGLASS FRP BORE CASING

- Corrosion Resistant - Perfect for Hyper Saline or Agressive Water
- Strong - Suitable for Very Deep Bores
- Lightweight - Easy to Handle
- Temperature Tolerant - Up to 100°C
- Australian Owned



**FITTINGS AND ADAPTERS:**

- CROSSOVERS - FABRICATED INTO PIPE
  - CENTRALISERS
  - FLANGES
  - REDUCERS - FABRICATED IN FRP OR STAINLESS STEEL
  - THREADED / PLAIN ADAPTERS
- (Crossovers and reducers available in 304 or 316 Stainless Steel)

**OPTIONS:**

- SLOTTED Permaglass FRP Bore Casing Factory Performed. Variable open areas up to 4%.
- OPEN WEAVE PIPE. For greater open areas up to 50%.
- FRAS - Fire Resistant Anti Static available.
- THREADED Joint Nom 125mm (5 inch) to 200mm (8 inch) available

**FEATURES / BENEFITS:**

- CORROSION RESISTANT FRP
- KWIK-LOK JOINTS (very quick and easy to join)
- LIGHTWEIGHT CASING
- HIGH EXTERNAL COLLAPSE (Deep Installations)
- READILY AVAILABILIE
- HANDLES UP TO 100°C (Contact supplier for temperatures greater than 80°C)

**APPLICATIONS:**

- SALT, BRACKISH OR LOW PH WATER BORES
- POTABLE WATER BORES
- DEWATERING BORES
- SERVICE BORES TO UNDERGROUND OPS
- RESISTANT TO LIGHTING CONDUCTIVITY

**Permaglass FRP BORE CASING Technical Data**

Nominal Size	Internal Diameter	OD at Coupling	Operating Collapsible pressure*	Ultimate Collapsible pressure*	Standard Wall Thickness	Maximum Operating Internal Pressure*	Maximum Tensile Load*	Weight	Locking Cord Diameter	Effective Length
mm (in.)	mm (in.)	mm (in.)	kPa (psi)	kPa (psi)	mm (in.)	kPa (psi)	kg (lb.)	kg/m (lb/ft)	mm (in.)	m
75 (3)	76 (3)	109 (4.3)	4330 (627)	6490 (941)	5 (0.2)	6440 (934)	3790 (8356)	2.2 (1.5)	6 (0.2)	Up to 5
75 (3)	76 (3)	112 (4.4)	9230 (1339)	13850 (2008)	6.5 (0.26)	8420 (1221)	5150 (11354)	3 (2)	6 (0.2)	Up to 5
100 (4)	101.7 (4)	137 (5.4)	1960 (284)	2940 (426)	5 (0.2)	4880 (708)	5000 (11023)	2.9 (2)	6 (0.2)	Up to 5
100 (4)	101.7 (4)	140 (5.5)	4280 (621)	6420 (931)	6.5 (0.26)	6410 (929)	6760 (14903)	3.9 (2.6)	6 (0.2)	Up to 5
100 (4)	101.7 (4)	143 (5.6)	7730 (1121)	11600 (1682)	8 (0.32)	7910 (1147)	8570 (18894)	4.8 (3.2)	6 (0.2)	Up to 5
125 (5)	127.1 (5)	163 (6.4)	2340 (339)	3510 (509)	6.5 (0.26)	5190 (752)	8360 (18431)	4.8 (3.2)	6 (0.2)	Up to 5
125 (5)	127.1 (5)	166 (6.5)	4290 (622)	6430 (932)	8 (0.32)	6410 (929)	10570 (23303)	6 (4)	6 (0.2)	Up to 5
125 (5)	127.1 (5)	169 (6.6)	6950 (1008)	10430 (1512)	9.5 (0.37)	7610 (1103)	12820 (28263)	7.1 (4.8)	6 (0.2)	Up to 5
150 (6)	152.5 (6)	196 (7.7)	1410 (205)	2120 (307)	6.5 (0.26)	4360 (632)	9960 (21958)	5.7 (3.8)	8 (0.3)	Up to 5
150 (6)	152.5 (6)	199 (7.8)	2610 (379)	3920 (568)	8 (0.32)	5400 (783)	12560 (27690)	7.1 (4.8)	8 (0.3)	Up to 5
150 (6)	152.5 (6)	202 (7.9)	4290 (622)	6430 (932)	9.5 (0.37)	6420 (931)	15220 (33554)	8.5 (5.7)	8 (0.3)	Up to 5
150 (6)	152.5 (6)	205 (8.1)	6460 (937)	9690 (1405)	11 (0.43)	7420 (1076)	17920 (39507)	9.9 (6.7)	8 (0.3)	Up to 5
150 (6)	152.5 (6)	208 (8.2)	9160 (1328)	13740 (1992)	12.5 (0.49)	8400 (1218)	20670 (45570)	11.4 (7.6)	8 (0.3)	Up to 5
200 (8)	203 (8)	252 (9.9)	1190 (172)	1780 (258)	8 (0.32)	4100 (594)	16530 (36442)	9.3 (6.2)	10 (0.4)	Up to 5
200 (8)	203 (8)	255 (10)	1970 (285)	2950 (428)	9.5 (0.37)	4890 (709)	19970 (44026)	11.1 (7.5)	10 (0.4)	Up to 5
200 (8)	203 (8)	258 (10.2)	3000 (435)	4500 (652)	11 (0.43)	5660 (821)	23470 (51742)	13 (8.7)	10 (0.4)	Up to 5
200 (8)	203 (8)	261 (10.3)	4310 (624)	6460 (937)	12.5 (0.49)	6430 (932)	27010 (59547)	14.8 (10)	10 (0.4)	Up to 5
200 (8)	203 (8)	264 (10.4)	5890 (854)	8840 (1282)	14 (0.55)	7180 (1041)	30600 (67461)	16.7 (11.2)	10 (0.4)	up to 12
250 (10)	256 (10.1)	313 (12.3)	1590 (230)	2380 (345)	11 (0.43)	4540 (658)	29290 (64573)	16.2 (10.9)	10 (0.4)	up to 12
250 (10)	256 (10.1)	316 (12.4)	2290 (333)	3440 (499)	12.5 (0.49)	5150 (747)	33670 (74230)	18.5 (12.4)	10 (0.4)	up to 12
250 (10)	256 (10.1)	319 (12.6)	3170 (459)	4750 (689)	14 (0.55)	5770 (837)	38090 (83974)	20.8 (14)	10 (0.4)	up to 12
250 (10)	256 (10.1)	322 (12.7)	4210 (610)	6310 (915)	15.5 (0.61)	6370 (924)	42550 (93807)	23.2 (15.6)	10 (0.4)	up to 12
300 (12)	305 (12)	376 (14.8)	1410 (205)	2120 (307)	12.5 (0.49)	4360 (632)	39820 (87788)	21.9 (14.7)	10 (0.4)	up to 12
300 (12)	305 (12)	379 (14.9)	1960 (284)	2940 (426)	14 (0.55)	4880 (708)	45010 (99230)	24.6 (16.5)	10 (0.4)	up to 12
300 (12)	305 (12)	382 (15)	2610 (379)	3920 (568)	15.5 (0.61)	5400 (783)	50250 (110782)	27.4 (18.4)	10 (0.4)	up to 12
300 (12)	305 (12)	385 (15.2)	3390 (492)	5090 (738)	17 (0.67)	5910 (857)	55530 (122423)	30.2 (20.3)	10 (0.4)	up to 12
300 (12)	305 (12)	388 (15.3)	4290 (622)	6430 (932)	18.5 (0.73)	6420 (931)	60860 (134173)	33 (22.2)	10 (0.4)	up to 12
350 (14)	362 (14.3)	438 (17.2)	1630 (237)	2450 (355)	15.5 (0.61)	4580 (664)	59200 (130514)	32.2 (21.7)	10 (0.4)	9 to 12
350 (14)	362 (14.3)	441 (17.4)	2130 (308)	3190 (463)	17 (0.67)	5020 (728)	65380 (144138)	35.5 (23.9)	10 (0.4)	9 to 12
400 (16)	413 (16.3)	496 (19.5)	1470 (214)	2210 (320)	17 (0.67)	4420 (641)	74180 (163539)	40.3 (27.1)	10 (0.4)	up to 12
400 (16)	413 (16.3)	499 (19.6)	1880 (273)	2820 (409)	18.5 (0.73)	4810 (697)	81210 (179037)	44 (29.6)	10 (0.4)	up to 12
450 (18)	454 (17.9)	542 (21.3)	1450 (210)	2170 (315)	18.5 (0.73)	4390 (636)	88940 (196079)	48.2 (32.4)	10 (0.4)	up to 12
450 (18)	454 (17.9)	545 (21.5)	1810 (262)	2710 (393)	20 (0.79)	4740 (687)	96650 (213077)	52.2 (35.1)	10 (0.4)	up to 12
500 (20)	499 (19.6)	587 (23.1)	1390 (201)	2080 (302)	20 (0.79)	4330 (628)	105840 (233337)	57.2 (38.4)	10 (0.4)	up to 12
600 (24)	611 (24.1)	721 (28.4)	1410 (204)	2110 (306)	24.5 (0.97)	4350 (631)	159530 (351703)	85.8 (57.6)	10 (0.4)	up to 12



**NOTE:**

1. Longer lengths than shown may be available in sizes above DN200 - Refer supplier.
2. Wall thickness increases as the external pressure/depths increase. Consult supplier for collapse pressures greater than shown in this table.