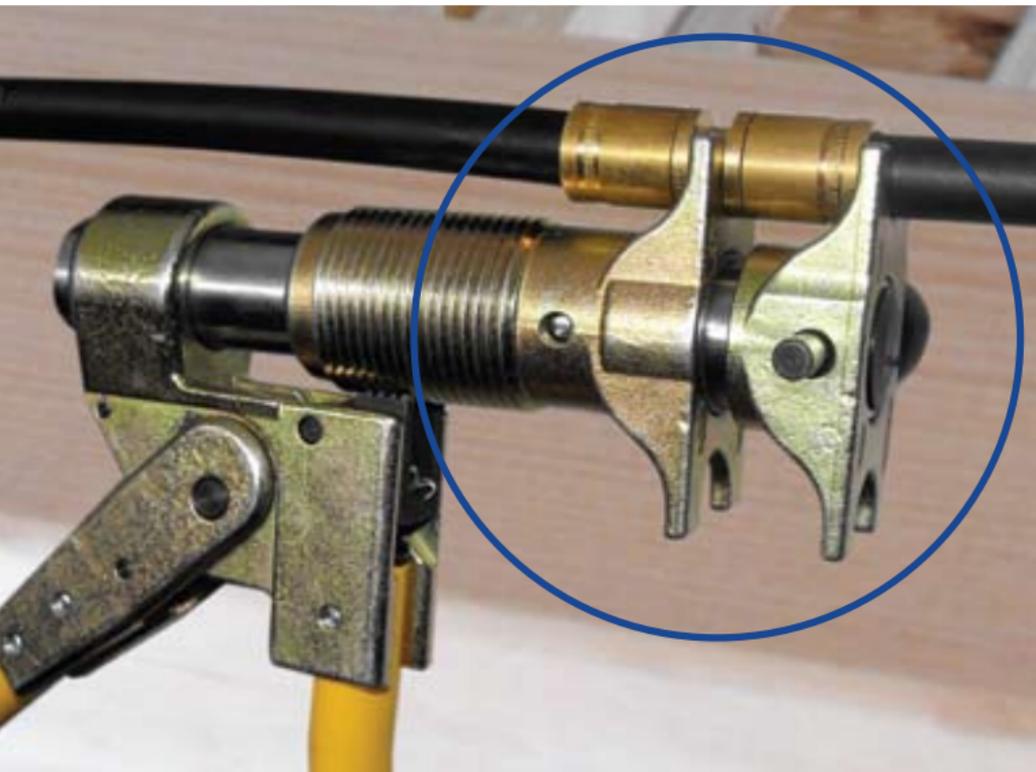


Plumbers' Supplies



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PSC PEX PLUMBING SYSTEM



PSC PEX SLEEVE TYPE PLUMBING SYSTEM



June 2010

THIS BROCHURE PROVIDES SPECIFICATION AND INSTALLATION INFORMATION ON THE PSC PEX SLEEVE TYPE PLUMBING SYSTEM.

The "PSC PEX" PEX Plumbing System comprises three main components; a flexible cross linked high density polyethylene pipe, solid DR brass compression fittings and special tooling.

Both the pipe and fittings are manufactured for Plumbers' Supplies Co-op. All products are manufactured to strict quality controls, are fully compliant to Australian Standards and are fully warranted.

The "PSC PEX" PEX Plumbing System uses black coloured PE-X pipe, which is suitable for use in hot and cold water services in both domestic and commercial applications. In addition the same pipe can be used for rainwater harvesting (coloured green) and water recycling (coloured purple).

The "PSC PEX" PEX Plumbing System is a cost effective alternative to other plumbing systems. The "PSC PEX" PEX system is easy and fast to install, usually with less fittings. The flexible pipe is light, as well as being corrosion, scale and chlorine resistant. As water flows more quietly through the PE-X pipe, water hammer is greatly reduced.

With the "PSC PEX" PEX system, the jointing sleeve is slipped over the pipe after which the end of the pipe is flared. The brass fitting is inserted into the flared end of the pipe and the jointing sleeve is then pulled over the pipe using the special pull on tool. This results in a permanent leak proof joint.

By using the "PSC PEX" expanding and compression tool, joints can be made without flame, heat, solder or solvents.



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Technical Information

The “PSC PEX Sleeve Type” product range is a complete PEX Plumbing System comprising PE-X pipe and a full range of DR brass fittings. The system also comes with a set of easy to use tooling.

1. PIPING

PE-X piping is manufactured from high density crossed linked polyethylene material. To conform to Australian Standard AS/NZS 2492, the base material used in the manufacture of PE-X pipe, can be cross linked by using one of three methods; by the peroxide (PE-Xa), Silane (PE-Xb) or electron beam (PE-Xc) cross linking process.

The piping is available in three colours. The colours help to identify the pipe application. However it is recommended that unprotected pipe not be exposed to direct sunlight on a permanent basis.

Black – Suitable for potable hot & cold water plumbing in domestic and commercial applications.

Purple – Suitable for recycled, non potable water

Green – Suitable for rainwater

PROOF

Packaging

Pipe size	Black
16mm	5m lengths & 100m coils
20mm	5m lengths & 100m coils
25mm	5m lengths & 50m coils
32mm	5m lengths & 50m coils

Pipe size	Purple	Green
16mm	50m coils	50m coils
20mm	50m coils	50m coils
25mm	50m coils	50m coils

Pipe size	Black in Conduit
16mm	50m coils
20mm	50m coils

ONLY

Pipe sizes and tolerances

Nom. O.D	Mean outside diameter (mm)		Wall thickness (mm)	
	Min	Max	Min	Max
DN 16 - 16mm	16.0	16.3	2.2	2.6
DN 20 - 20mm	20.0	20.3	2.8	3.2
DN 25 - 25mm	25.0	25.3	3.5	4.0
DN 32 - 32mm	32.0	32.3	4.4	5.0

Pressure ratings

Pipes for water applications are classified in terms of the nominal pressure rating (PN) at water service temperature of 20°C. "PSC PEX Sleeve Type" PE-X pipe has a pressure rating of PN20 and a nominal working pressure of 2,000kpa at 20°C. The following table shows the relationship of the pipe working pressure and pipe material temperature (PMT).

Working pressure, KPa

	PMT	20°C	60°C	70°C
PN				
20		2000	1500	1330

Temperature ratings

PE-X pipe is suitable for use at temperatures up to 100°C however; continuous long term operation should be between -50°C and +70°C.

PROOF

2. FITTINGS

“PSC PEX Sleeve Type Pull-On” PEX fittings are especially designed and engineered to compliment the PSC PE-X Pipe. All PSC PEX fittings are made from solid DR brass (i.e Dezincification Resistant quality in accordance with AS 2345) and require no heat, flame or solvents when jointing to PE-X pipe.

Available sizes

Nom. O.D
DN 16 - 16mm
DN 20 - 20mm
DN 25 - 25mm
DN 32 - 32mm



Refer to a full product listing later in this brochure.



3. PSC PEX TOOLS

PSC PEX Sleeve Type tools are specifically designed to be used with PSC PE-X pipe to ensure a simple effective joint. The tools are made from the highest quality materials and are designed to give years of trouble free service.

Important:- Tools should be adequately maintained to achieve optimum results.

4.WARRANTY

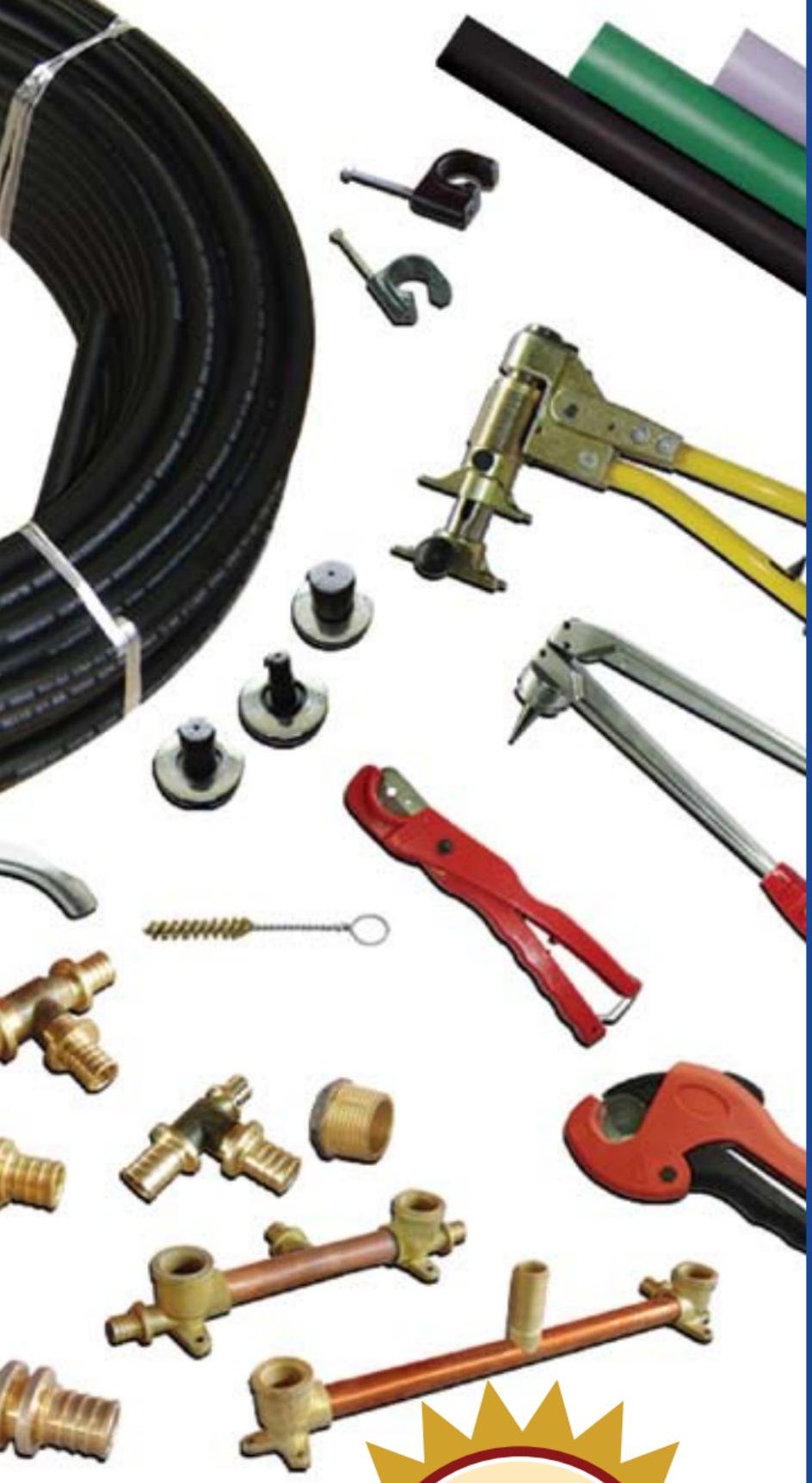
PSC PEX Sleeve Type PEX Plumbing System carries a 25 year warranty when the system is installed by a licenced plumber in accordance with AS 3500 of the National Plumbing code parts 1, 4 and 5 and established installation practices.

5.COMPLIANCE WITH AUSTRALIAN STANDARDS

PSC PEX Sleeve Type PEX Plumbing System is licenced by SAI Global to Australian Standards and complies with Australia and New Zealand Standards AS/NZS 2492 for pipe (Lic. No. 21274) and AS 2537 for fittings (Lic. No. 21276).



PROOF



Installation Guide



1 Cut the pipe to be joined cleanly and squarely using PSC PE-X Pipe Cutters.



2 Slip the jointing sleeve over the end of the pipe with the beveled end of the sleeve facing outwards and the grooved end of the sleeve at the furthest point from the end of pipe.



3 Expand the pipe using the PSC Expanding Tool making sure the jointing sleeve is well away from the area of pipe to be expanded. Expand the pipe twice to make a good expansion of the pipe end.



4 Insert the fitting into the expanded end of the pipe until the fitting reaches the pipe stop.

5



Slide the jointing sleeve towards the fitting. Position the jointing sleeve and the fitting squarely within the jaws of the PSC Compression Tool.

6



Draw the sleeve towards the fitting by closing the jaws of the Compression Tool until the sleeve reaches the shoulder of the fitting.

7



Inspect the joint to ensure the sleeves are drawn all the way to the fitting shoulder and the beveled end of the sleeves is towards the fitting.

8

Pressure test the line as per Plumbing Regulations.

Product Listing

NO.1 STRAIGHT COUPLING



Code	Description
656355	No.1 Straight Coupling 16mm
656357	No.1 Straight Coupling 20mm
656358	No.1 Straight Coupling 25mm
656359	No.1 Straight Coupling 32mm

NO.1R REDUCING COUPLING



Code	Description
656365	No.1R Reducing Coupling 20 x 16mm
656366	No.1R Reducing Coupling 25 x 16mm
656367	No.1R Reducing Coupling 25 x 20mm
656368	No.1R Reducing Coupling 32 x 25mm

NO.2 STRAIGHT FEMALE CONNECTOR



Code	Description
656440	No.2 Straight Connector 16mm x 15mm FI
656441	No.2 Straight Connector 20mm x 15mm FI
656442	No.2 Straight Connector 20mm x 20mm FI

PROOF

NO.3 STRAIGHT MALE CONNECTOR



Code	Description
656451	No.3 Straight Connector 16mm x 15mm MI
656450	No.3 Straight Connector 16mm x 20mm MI
656452	No.3 Straight Connector 20mm x 15mm MI
656453	No.3 Straight Connector 20mm x 20mm MI
656454	No.3 Straight Connector 20mm x 25mm MI
656455	No.3 Straight Connector 25mm x 15mm MI
656457	No.3 Straight Connector 25mm x 20mm MI
656458	No.3 Straight Connector 25mm x 25mm MI
656459	No.3 Straight Connector 32mm x 20mm MI
656460	No.3 Straight Connector 32mm x 25mm MI

NO.12 ELBOW



Code	Description
656375	No.12 Elbow 16mm
656376	No.12 Elbow 20mm
656377	No.12 Elbow 25mm
656378	No.12 Elbow 32mm

NO.13 MALE ELBOW



Code	Description
656465	No.13 Elbow 16mm x 15mm MI
656466	No.13 Elbow 20mm x 15mm MI
656467	No.13 Elbow 20mm x 20mm MI
656468	No.13 Elbow 25mm x 20mm MI

NO.14 FEMALE ELBOW



Code	Description
656475	No.14 Elbow 16mm x 15mm FI
656476	No.14 Elbow 20mm x 15mm FI
656477	No.14 Elbow 20mm x 20mm FI

NO.15 LUGGED FEMALE ELBOW



Code	Description
656495	No.15BP Elbow 16mm x 15mm FI
656496	No.15BP Elbow 20mm x 20mm FI

NO.19 LUGGED MALE ELBOW



Code	Description
656485	No.19BP Elbow 16mm x 15mm MI 65mm Long
656486	No.19BP Elbow 16mm x 15mm MI 90mm Long
656488	No.19BP Elbow 16mm x 15mm MI 200mm Long
656487	No.19BP Elbow 16mm x 15mm MI 150mm Long
656489	No.19BP Elbow 20mm x 15mm MI 95mm Long
656491	No.19BP Elbow 20mm x 15mm MI 200mm Long
656492	No.19BP Elbow 20mm x 20mm MI 95mm Long
656490	No.19BP Elbow 20mm x 20mm MI 150mm Long

PROOF

NO.24 TEE



Code	Description
656385	No.24 Tee 16mm
656386	No.24 Tee 20mm
656387	No.24 Tee 25mm
656388	No.24 Tee 32mm

NO.25 REDUCED CENTRE TEE



Code	Description
656405	No.25 Tee Reduced Centre 20 x 20 x 16mm
656407	No.25 Tee Reduced Centre 25 x 25 x 20mm
656406	No.25 Tee Reduced Centre 25 x 25 x 16mm
656410	No.25 Tee Reduced Centre 32 x 32 x 25mm

NO.26 REDUCED END TEE



Code	Description
656395	No.26 Tee Reduced End 20 x 16 x 20mm
656396	No.26 Tee Reduced End 25 x 16 x 25mm
656397	No.26 Tee Reduced End 25 x 20 x 25mm

NO.27 REDUCED CENTRE & END TEE



Code	Description
656415	No.27 Tee Reduced Centre+End 20 x 16 x 16mm
656418	No.27 Tee Reduced Centre+End 25 x 16 x 16mm
656419	No.27 Tee Unequal Red Centre+End 25 x 20 x 16mm
656420	No.27 Tee Unequal Red Centre+End 25 x 16 x 20mm
656416	No.27 Tee Reduced Centre+End 25 x 20 x 20mm
656417	No.27 Tee Reduced Centre+End 32 x 25 x 25mm

NO.61 STOPPER



Code	Description
656525	No.61 Stopper 16mm
656526	No.61 Stopper 20mm

NO.62 STRAIGHT TAP CONNECTOR



Code	Description
656500	No.62 Straight Tap Connector CONE 16mm x 15mm FI NUT
656501	No.62 Straight Tap Connector CONE 20mm x 20mm FI NUT
656503	No.62 Straight Tap Connector FLAT 16mm x 15mm FI NUT
656504	No.62 Straight Tap Connector FLAT 20mm x 20mm FI NUT

NO.63 BENT TAP CONNECTOR



Code	Description
656505	No.63 Bent Tap Connector 16mm x 15mm FI NUT
656506	No.63 Bent Tap Connector 20mm x 20mm FI NUT

FLARED COMPRESSION UNION



Code	Description
656352	Flared Copper Compression Union 16mm x 15mm FL
656354	Flared Copper Compression Union 20mm x 15mm FL
656353	Flared Copper Compression Union 20mm x 20mm FL

BATH/LAUNDRY ASSEMBLY



Code	Description
656513	Bath/Laundry Assembly Right Angled 200mm (FLOOR ENTRY)
656512	Bath/Laundry Assembly Right Angled 300mm (FLOOR ENTRY)
656510	Bath/Laundry Assembly Straight 300mm (SIDE ENTRY)

SHOWER ASSEMBLY



Code	Description
656518	Shower Assembly Right Angled 150mm (FLOOR ENTRY)
656517	Shower Assembly Right Angled 200mm (FLOOR ENTRY)
656519	Shower Assembly Right Angled BARBS UP 150mm (TOP ENTRY)
656520	Shower Assembly Right Angled BARBS UP 200mm (TOP ENTRY)
656515	Shower Assembly Straight 150mm (SIDE ENTRY)

CONNECTING BARB



Code	Description
656430	Connecting Barb 16mm
656431	Connecting Barb 20mm
656432	Connecting Barb 25mm
656433	Connecting Barb 32mm

CONNECTING BARB FEMALE



Code	Description
656435	Connecting Barb Female 16mm
656436	Connecting Barb Female 20mm
656437	Connecting Barb Female 25mm

COMPRESSION SLEEVE



Code	Description
656345	Compression Sleeve 16mm
656346	Compression Sleeve 20mm
656347	Compression Sleeve 25mm
656348	Compression Sleeve 32mm

HOT & COLD WATER PIPE (BLACK) STRAIGHT LENGTH



Code	Description
656300	Hot & Cold Water Pipe (Black) 5m Length 16mm
656301	Hot & Cold Water Pipe (Black) 5m Length 20mm
656302	Hot & Cold Water Pipe (Black) 5m Length 25mm
656303	Hot & Cold Water Pipe (Black) 5m Length 32mm

HOT & COLD WATER PIPE (BLACK) COIL



Code	Description
656316	Hot & Cold Water Pipe (Black) 100m Coil 16mm
656317	Hot & Cold Water Pipe (Black) 100m Coil 20mm
656315	Hot & Cold Water Pipe (Black) 50m Coil 25mm
656314	Hot & Cold Water Pipe (Black) 50m Coil 32mm

HOT & COLD WATER PIPE (BLACK) IN CONDUIT COIL*

Code	Description
656334	Hot & Cold Water Pipe (Black) in Conduit 50m Coil 16mm
656335	Hot & Cold Water Pipe (Black) in Conduit 50m Coil 20mm

RECYCLED WATER PIPE (PURPLE) COIL



Code	Description
656322	Recycled Water Pipe (Purple) 50m Coil 16mm
656323	Recycled Water Pipe (Purple) 50m Coil 20mm
656324	Recycled Water Pipe (Purple) 50m Coil 25mm

PROOF

RAIN WATER PIPE (GREEN) COIL



Code	Description
656328	Rain Water Pipe (Green) 50m Coil 16mm
656329	Rain Water Pipe (Green) 50m Coil 20mm
656330	Rain Water Pipe (Green) 50m Coil 25mm

CLIP MASONRY NAIL



Code	Description
656533	Open Clip 16mm Masonry Nail
656534	Open Clip 20mm Masonry Nail
656535	Open Clip 25mm Masonry Nail

CLIP TIMBER NAIL



Code	Description
656530	Open Clip 16mm Timber Nail
656531	Open Clip 20mm Timber Nail
656532	Open Clip 25mm Timber Nail

CLIP METAL SCREW



Code	Description
656537	Open Clip 16mm Metal Screw
656538	Open Clip 20mm Metal Screw
656539	Open Clip 25mm Metal Screw

PROFILE BEND BRACKET



Code	Description
656580	Profile Bend Bracket 90 Degree x 5D 16mm
656581	Profile Bend Bracket 90 Degree x 5D 20mm
656582	Profile Bend Bracket 90 Degree x 5D 25mm

MANUAL COMPRESSION TOOL KIT 16-20mm


Code	Description
656545	Manual Compression Tool Kit Complete 16-20mm

MANUAL COMPRESSION TOOL KIT 16-32mm


Code	Description
656544	Manual Compression Tool Kit Complete 16-32mm

MANUAL COMPRESSION TOOL


Code	Description
656546	Manual Compression Tool Only

COMPRESSION JAW


Code	Description
656550	Compression Jaw 16-20mm
656552	Compression Jaw 25-32mm

MANUAL EXPANDER TOOL


Code	Description
656557	Manual Expander Tool

PROOF

EXPANDER HEAD



Code	Description
656559	Expander Head 16-20mm
656561	Expander Head 25mm
656562	Expander Head 32mm

PIPE CUTTER



Code	Description
656565	Pipe Cutter for 16-25mm Pipe

PIPE CUTTER



Code	Description
656566	Pipe Cutter for 16-40mm Pipe

BRASS BRUSH



Code	Description
656570	Brass Brush

MANUAL COMPRESSION TOOL BOX



Code	Description
656575	Manual Compression Tool Box

ONLY

NEW SOUTH WALES

<i>Branch</i>	<i>Phone</i>	<i>Fax</i>
Artarmon	02 9439 4422	02 9438 1872
Blacktown	02 9671 4244	02 9621 3133
Broadmeadow	02 4962 5377	02 4962 5360
Brookvale	02 9938 6444	02 9905 1386
Campbelltown	02 4628 7289	02 4628 7358
Caringbah	02 9525 3677	02 9525 3194
Carlton	02 9547 2711	02 9547 2733
Eastwood	02 9874 8777	02 9874 5889
Erina	1300 240 803	02 4331 5768
Katoomba	02 4782 9255	02 4782 9055
Leichhardt	02 9566 4122	02 9566 4866
Lidcombe	02 9748 7866	02 9748 1221
Matraville	02 9666 3799	02 9666 5377
Mittagong	02 4871 3585	02 4871 2938
Padstow	02 9793 3377	02 9793 3311
Penrith	02 4721 7855	02 4721 8699
Thornleigh	02 9484 5866	02 9484 5377
Warwick Farm	02 9600 7700	02 9600 7880
Waterloo	02 9699 9477	02 9319 3037
Waverley	02 9369 1455	02 9369 2344

VICTORIA

Albury	02 6021 2655	02 6021 3766
Cheltenham	03 9553 1331	03 9553 1330
Hallam	03 9702 3800	03 9702 3811
Hoppers Crossing	03 9369 3088	03 9369 0238
Mitcham	03 9872 3199	03 9872 4053
Mornington	03 5976 4155	03 5976 4166
Port Melbourne	03 9645 4866	03 9645 2788
Preston	03 9484 9299	03 9484 9070

QUEENSLAND

Burleigh Heads	07 5522 3300	07 5522 3399
Rocklea	1300 107 526	07 3136 0193

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