Stormwater Pipes - SRP

Rocla Plastream® Stormwater Drainage Pipe

Plastream® steel-reinforced polyethylene drainage pipe combines the advantages of a smooth PE bore with the structural strength of steel. Plastream® drainage pipe is the strongest long-term plastic pipe product available.

The steel reinforcement is fully encapsulated within the UV-stabilised polyethylene pipe wall, allowing the manufacture of robust, lightweight pipes with high stiffness. Plastream® drainage pipe is designed to AS/NZS2566.1 and installed to AS/NZS2566.2.

- Lightweight
- Long term life cycle
- Resistant to creep
- Strong, trafficable
- Flexible
- Abrasion resistant
- Chemical resistant

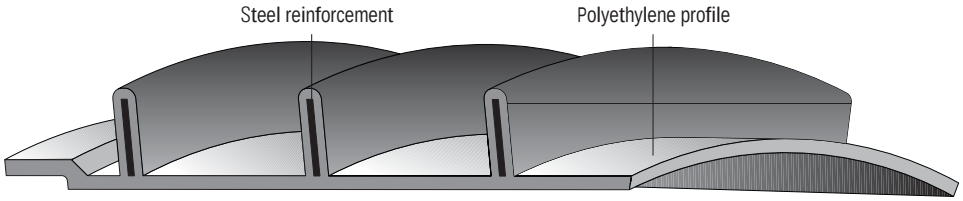
Assembly is simple, using the built-in spigot joint. Pipes up to 900mm diameter are fitted with a rubber ring gasket. Diameters above 900mm are supplied with plain socket and spigot, without rubber ring gasket.

Plastream® drainage pipe provides a cost-effective piping system which is ideal for new pipelines or connection to existing systems, agricultural drainage, road culverts, underground ducting, and connecting to precast structures.

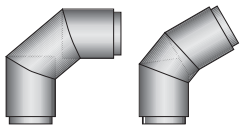
Rocla Plastream® Stormwater Drainage Pipe – Standard dimensions

Nominal ID (mm)	Nominal OD (mm)	Length (m)	Mass (kg/metre)	Mass (kg/pipe)
225	265	6	4.2	25
300	340	6	5.7	34
375	415	6	7.0	42
450	490	6	8.9	53
525	565	6	11.8	71
600	640	6	13.5	81
675	715	6	18.2	109
750	790	6	20.2	121
825	865	6	26.5	159
900	940	6	29.0	174
1050	1098	6	42.3	254
1200	1248	6	48.3	290
1350	1398	6	64.5	387
1500	1580	6	71.8	431
1650	1730	6	80.0	480
1800	1880	6	114.7	688
1950	2030	6	126.8	760.5
2250	2330	6	146.3	877.5

Profile Cross-section



Plastream® Standard Pipe Fittings



Bends	Junctions & Tees	Reducers
90 degrees	100 branch	100
45 degrees	150 branch	150
	225 branch	225
	300 branch	300
	375 branch	375
	450 branch	450
		525

Standard fittings not available for larger diameters. Contact Rocla for details.

Stormwater Pipes - SRP

Rocla Plastream® Pipe Installation

Installation and jointing of Plastream® pipes should be carried out in accordance with the project specifications and AS/NZS2566.2.

Trench preparation

Trenches should be as narrow as practical, with enough space to allow compaction of the fill at the sides and under the haunches of the pipe. The bedding surface should be smooth along the full length of the pipeline. The depth of the bedding ranges from 100 to 150mm depending on the pipe diameter.

Tips

1 One or two people will provide sufficient force to assemble the joint on smaller sizes.

2 For pipes larger than 450mm diameter, push the pipe home by levering with a crowbar against a piece of timber at the uphill face of the pipe (see diagram).

3 Less force is required to push home the RRJ if the uphill end of the pipe is elevated slightly so that not all of the gasket is compressed at once.

4 Take care not to damage the rubber joiner or gasket, to ensure proper sealing.

Levering larger pipes

Installation Guidelines

Plastream® drainage pipes in sizes 225mm to 900mm are supplied with a rubber ring joiner (RRJ). Diameters above 900mm are supplied with a standard extruded joiner.

RRJ pipes can be assembled in the trench quickly and simply using the following method:

1 Pipe laying to start at the downhill end of the pipeline with the RRJ end facing downhill. Ensure pipes are laid to line and grade along the centre line of the trench.

2 Stretch the supplied gasket over the joiner into the slot provided, ensuring the gasket lead-in is pointing down hill (see diagram).

3 Using a clean cloth, remove dust and any debris from joiner, gasket and internal surface of the pipe.

4 Apply jointing lubricant (AS4020-1999) liberally to the gasket and the inside surface of the down hill pipe. Jointing lubricant is not supplied with pipes, but may be purchased on request.

5 Lift the pipe slightly above the ground to force the joiner and gasket inside the end of the downhill pipe to complete the joint. The gasket is made of synthetic rubber and is resistant to acid and salinity.

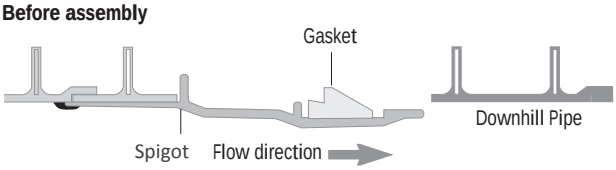
Anchor blocks

Where the slope of the pipeline exceeds 15%, concrete anchor blocks should be cast around the pipe to adequately restrain it. These blocks should key into the solid walls and base of the trench.

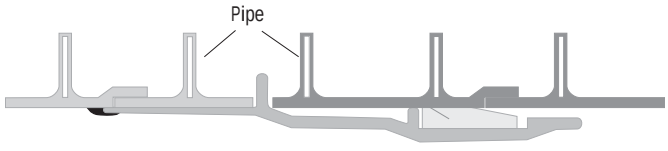
RRJ Pipe Jointing

Pipes from 225mm to 900mm diameter are supplied with an extruded spigot and rubber gasket.

Before assembly



After assembly



Gasket Joint

Pipes above 900mm diameter are supplied with a standard extruded joiner. The synthetic rubber gasket is resistant to acid and salinity.

RRJ Pipe Jointing