

Pipe Systems for Mechanical / Plumbing services and Chemical / Trade Waste, and Siphonic Rainplus systems

Sample Technical Specification

1.1 All pipe and fittings shall be:

System		Material	Product Name	Standard (s)	Joining
Potable Water - Cold		Polypropylene (PP-RCT)	PP-RCT SDR11 Solid Wall by Dynatherm	G12 AS/NZS 3500.1:2003 ISO 15874 DIN 8077 / 8078	Socket Fusion DIN1988 Electric Fusion DIN1988
Potable Water - Hot		Polypropylene (PP-RCT)	PP-RCT SDR11 Fibre Composite by Dynatherm	G12 AS/NZS 3500.1:2003 ISO 15874 DIN 8077 / 8078	Socket Fusion DIN1988 Electric Fusion DIN1988
Trade Waste Sanitary Waste Chemical Waste Stormwater		HDPE (Polyethylene) Up to 95°C on demand.	HDPE Drainage System by Stream NZ	AS/NZS 4401 :2008 AS/NZS 5065:2005 Watermark	Electric Fusion, Butt Fusion AS/NZS 2033:2008
Compressed Air / Vacuum		Maxair PE100	Maxair Pipe System	AS/NZ 4130 AS/NZ 4131	Socket Fusion DIN1988 Electric Fusion DIN1988
Siphonic Roof Drainage		HDPE (Polyethylene)	HDPE Valsir Rainplus System designed by UPG	AS/NZS 4401 :2008 AS/NZS 5065:2005 Watermark Design to meet: VDI 3806 BS 8490	Electric Fusion, Butt Fusion AS/NZS 2033:2008
Chilled Water	Large Bore ≥100mm	Polyethylene (PE100) Up to 50°C	PE100 SDR11 by Stream NZ	AS/NZ 4130	Electric Fusion, Butt Fusion AS/NZS 2033:2008
	Small Bore ≤ 80mm	Polypropylene (PP-RCT) Up to 80°C	PP-RCT SDR11 Fibre Composite by Dynatherm	ISO 15874 DIN 8077 / 8078	Socket Fusion DIN1988 Electric Fusion DIN1988
Condenser Water	Large Bore ≥150mm	Polyethylene (PE100) Up to 50°C	PE100 SDR17 by Stream NZ	AS/NZS 4130 AS/NZS 4129	Electric Fusion, Butt Fusion AS/NZS 2033:2008
	Small Bore ≤100mm	Polyethylene (PE100) Up to 50°C	PE100 SDR11 by Stream NZ	AS/NZS 4130 AS/NZS 4129	Electric Fusion, Butt Fusion AS/NZS 2033:2008
Heating Water		Polypropylene (PP-RCT) Up to 80°C	PP-RCT SDR11 Fibre Composite by Dynatherm	ISO 15874 DIN 8077 / 8078	Socket Fusion DIN1988 Electric Fusion DIN1988

1.2 Installation:

- a) Installation shall be in accordance with the requirements of the manufacturer's guidelines, and other local standards and/or regulations as applicable.
- b) Fusion welding shall be done in strict conformance with the manufacturers guidelines and all installers shall be trained in the installation of the particular system before installation commences. UPG provide training and certificates on completion.
- c) Pressure testing shall be performed in strict conformance with the manufacturer's guidelines.