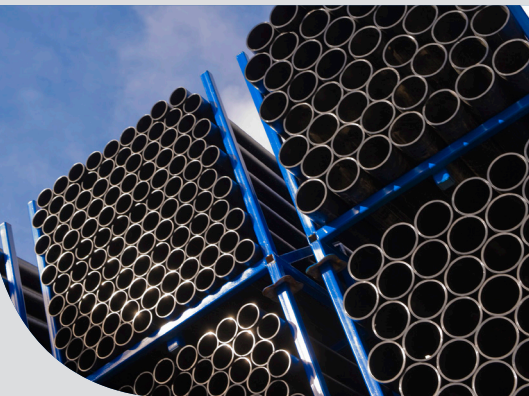


### SYSTEM DATA SHEET



**valsir**<sup>®</sup>  
QUALITY FOR PLUMBING

### SYSTEM DESCRIPTION

Stream HDPE is a complete soil, waste and vent system of pipes and fittings, manufactured from high-density polyethylene. High-density polyethylene (945-965kg/m<sup>3</sup>) is characterised by a very crystalline molecular structure (slightly ramified molecules which are close together). This structure offers an extraordinary chemical resistance in combination with a high flexibility level and superb impact resistance.

Pipes and fittings are jointed by welding, making the joints resistant to tension. There are two methods of welding: butt welding and electrofusion welding.

Stream HDPE pipes and fittings are used as part of the under-pressure Rainplus siphonic roof drainage system.

### SYSTEM BENEFITS

- **Excellent chemical and corrosion resistance**  
Durable system with a wide range of applications including trade waste and chemical drainage
- **High material flexibility**  
Options for rigid and flexible installation methods
- **High impact resistance**  
Impact resistance is high even at low temperatures
- **Easy to install**  
Fittings are marked for easy cutting and positioning
- **Corrosion resistant**  
Stream HDPE is a durable complete plastic system
- **Smooth Bore, free of incrustations**  
Maintains a smooth internal surface, preventing the build-up of deposits which could restrict flow
- **Welded system**  
Secure joints by butt-welding or electrofusion welding
- **Excellent for casting into concrete**  
No wrapping of pipes before casting into concrete
- **Ample operating temperature**  
Compared with other plastics HDPE has a wide temperature range (-40°C to 95°C)





The Stream HDPE Trade Waste System for soil, waste and vent pipes and fittings is suitable for the following applications in residential and commercial situations:

- Sanitary Facilities
- Washing machines and dishwashers
- Waste water in commercial kitchens, laundries and industrial plants
- Aggressive fluids in schools, laboratories and industrial buildings

The Rainplus Siphonic Roof Drainage system also utilises most products in the Stream HDPE range .

### APPLICATIONS

### RANGE

Stream HDPE is available in a range of nominal pipe sizes from 40mm to 315mm. The system consists of a large variety of fittings such as reducers, elbows, branches, expansion sockets, access fittings and others.

CATEGORY	PRODUCT	DIMENSIONS (MM)
Pipes	Plain ended	40-315mm
Bends	Bends 15° - 90° Bends extended Bends reduced	40-315mm
Branches	Branches 45°, 90°	40/40 - 315/315
Couplers	Electrofusion	40-315mm
Reducers	Concentric and eccentric	50/40 - 315/250
Accessories	Electrofusion welding machines Butt welding machines Access fittings WC connectors Traps Transition fittings Tooling Adaptors	

### QUALITY REQUIREMENTS

The black coloured PE100 pipes and fittings are used world-wide and have received various product quality marks from the most important international Certification Institutes. UPG Pipe Systems sources pipes and fittings that meet AS/NZS standards, guaranteeing a strict and continuous control on raw materials, production, dimension and identification.

### PRODUCT SPECIFICATIONS

**Raw Material**  
Polyethylene (PE100)

**Density g/cm<sup>3</sup>**  
0.948-0.957

**Wall thickness and weight per metre (S=12.5)**

DN (MM)	WALL (MM)	WEIGHT (KG/M)
40	3	0.370
50	3	0.460
56	3	0.530
63	3	0.595
75	3	0.740
90	3.5	0.980
110	4.3	1.450
125	4.9	1.860
160	6.2	3.080
200	7.7	4.100
250	9.6	6.100
315	12.1	9.510

**Jointing Method**  
Welding (butt and electrofusion), flange binding

**Hot Water Resistance**  
According to EN 1519

**Chemical Resistance**  
According to EN 1519 and ISO TR 7474

**Linear Expansion**  
0.2mm/m °C

**Quality Marking**  
AS/NZS 4130, AS/NZS 4129, AS/NZS 5065:2005, WATER-MARK

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