



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/m³) 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.

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
- **UV Resistance**
Stream HDPE contains black carbon, therefore the pipe system is UV resistant



- **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 70°C) with peak loads up to 95°C.

APPLICATIONS

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

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	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 HDPE 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
(PE80B or PE100)

Density g/cm³

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

Linear Expansion

0.2mm/m °C

Chemical Resistance

Organic and inorganic solvents. At 20°C it is resistant to detergents and acids used for unclogging sinks and toilets.

According to ISO/TR 10358:1993

Pressure Rating

Stream HDPE is for gravity drainage pipe systems. It is also suitable for low pressure applications (below 200kpa) if there are no ring seal sockets used in the pipeline.

Quality Marking

AS/NZS 4401

AS/NZS 5065

UNI EN 1519

Watermark WM 74770

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