



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.

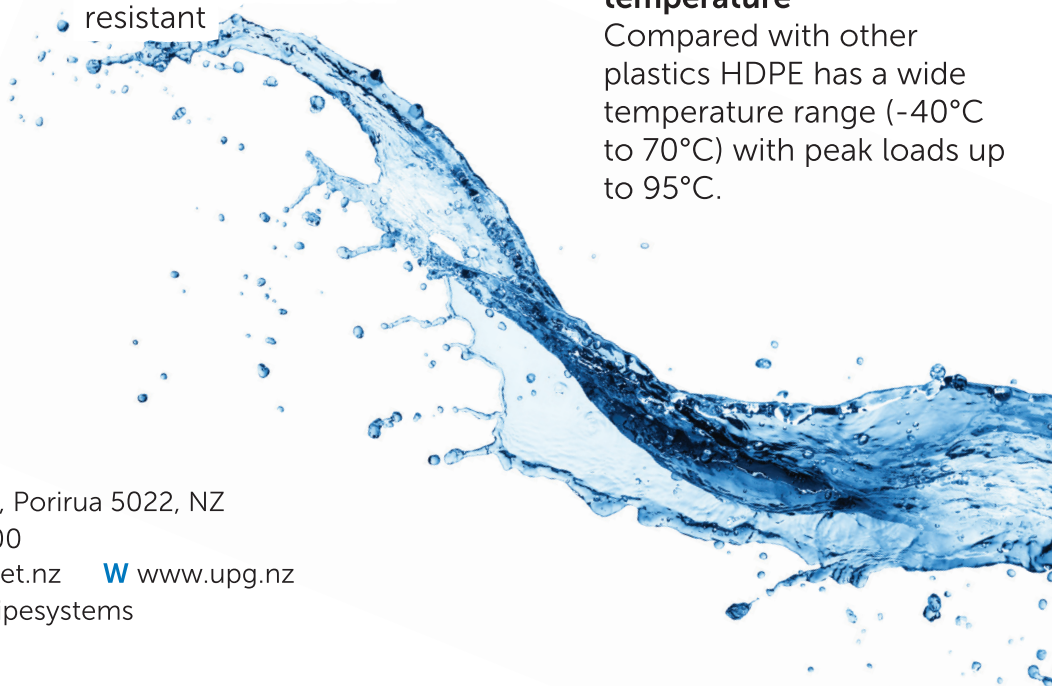
Pipes and fittings are jointed by welding, making the joints resistant to tension. There are two methods of welding: butt welding and electrofusion welding.

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 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

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 |

Joining Method

Welding (butt and electrofusion), flange binding

Hot Water Resistance

According to EN 1519

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

Linear Expansion

0.2mm/m °C

Quality Marking

AS/NZS 4401
UNI EN 1519
Watermark WM 74770

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