

Brymec PVC-U Commercial Soil & Waste System - Technical Specification



System Overview

The Brymec PVC-U Commercial Soil and Waste System is suited for use above ground in commercial and residential buildings, installed within the building structure as a gravity drainage system for the disposal of foul water, wastewater and rainwater.

Manufactured from high-grade PVC-U with extruded pipes and precision injection-moulded fittings, the range is completed with Polypropylene waste traps for connection to waste outlets and appliances where resistance to high temperatures is needed.

The system is lightweight, durable, versatile, quick and easy to install, and is available in a vast range of fitting types and sizes to provide numerous options during installation.

The Brymec PVC-U system has low maintenance requirements in addition to suiting a wide range of applications.

There are two choices of jointing options – Solvent Weld and Ring Seal. Both ranges provide a proven high level of reliable joint security and have a wide range of fittings options.

The Solvent weld system is engineered for maximum performance and longevity, and the pipe and socket system is complemented by ring seal adapters.

The Ring Seal range features quick, adhesive-free push fit connections which provide secure and leak proof joints.

Both jointing solutions are tried and tested on numerous large scale commercial projects and are designed to provide years of reliable performance.

In addition to Brymec products we also include some items marked Aquaflow as part of our approved system.

Technical Information

Brymec PVC-U Soil & Waste System Pipe - Technical Information

Pipe size	3/4"	1 1/4"	1 1/2"	2"	4"	6"
Nominal DN (mm)	22	32	40	50	100	160
Maximum OD (mm)	22	36.3	43	55.9	110.3	160.4
Max. Wall Thickness (mm)	1.7	1.8	1.9	3.2	3.8	3.8
Nominal Internal Diameter (mm)	18.6	32.7	39.2	49.5	102.7	152.8
Water Volume - l/m (maximum)	0.27	0.84	1.21	1.92	8.25	18.34
Nominal Pipe Weight - kg/m	0.15	0.33	0.40	0.53	1.70	3.133
Operating Temperature	70°C continuous, short-term temperature to 79°C					
Reaction to Fire	Class B-s1,d0					
Operating Pressure - water	0.5bar to BS EN 13259 table 26					
Negative Pressure - Air	-0.3bar to BS EN 13259 table 26					
Thermal Expansion Coefficient	0.06 mm/m°K					
Material - Pipe	PVC-U (Poly Vinyl Chloride - Unplasticised) to BS EN1453-1					
Pipe Connections	Solvent Weld (adhesive joint socket), or Elastomeric Ring Seal Connections					
O-Ring Material -Ring Seal Only	EPDM seals to BS EN 681-2					
Colour	Solvent Grey, Ring Seal Grey, Black					
Chemical Resistance	Compatibility based on British Standard Code of Practice 312: Part 1,					
Pipe Identification Markings	Markings at 1m intervals with full production data according to BS EN 1329-1:2020 table 27					
Manufacturing Standard	BS EN 1329-1:2020 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly vinyl chloride (PVC-U)					
System Compliance	Compliant with BS EN 12056-2:2000					
Approvals	BSi Kitemark KM 780336 to BS EN1329-1:2020					



Brymec PVC-U Soil & Waste System Fittings - Technical Information	
Material	PVC-U (Poly Vinyl Chloride - Unplasticised) to BS EN1453-1
Material - Traps and trap fittings	Polypropylene to BS EN 274
Connections - Socket and Spigot	Solvent Weld (adhesive joint socket), or Elastomeric Ring Seal Connections
O-ring Material (ring seal only)	EPDM seals to BS EN 681-2
Operating Pressure - water	0.5bar to BS EN 13259 table 26
Negative Pressure - Air	-0.3bar to BS EN 13259 table 26
Colour	Grey, White, Black
Identification Marking	Markings to BS EN1329-1:2020 table 28
Manufacturing Standard	BS EN 1329-1:2020 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly vinyl chloride (PVC-U)
Manufacturing Standard - Polypropylene Traps and Fittings	BS EN 274:2002 - Waste Fittings for Sanitary Appliances BS EN 1451-1:2017 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Polypropylene (PP) - Specifications for pipes, fittings and the system
Approvals	BSi Kitemark KM 780336 to BS EN1329-1

Applications	Domestic Low temperature Wastewater	Domestic High Temperature Wastewater	Rainwater Discharge	Overflow Discharge	Condensate Drainage	Waste System Ventilation
Application to BS EN 1329-1	✓	✓	✓			✓
Additional approved applications				✓	✓	
Application Area - B	Above ground, internally, or outside buildings, when fixed to walls					

Warranty

The Brymec Commercial PVC-U Soil and Waste System is covered by a comprehensive 10 year warranty.

Please refer to Brymec for full details.



Manufacturer details

Brymec Limited
Unit C Redlands Centre
Coulsdon
CR5 2HT
T: 020 8655 8700
E: enquiries@brymec.com
W: www.brymec.com

Installation and Tooling

For manufacturer's warranty to apply, all products must be installed to Brymec's latest installation instructions.



Scan or click to download the Brymec Soil & Waste Systems Technical Manual.

Certification



Cert. 288342018



Cert. 459902024



Cert. 1313072

Brymec reserves the right to make changes, without prior notification, to the specification of our PVC-U Commercial Soil and Waste System in line with our policy of continuous improvement and development.

