



Aquaflow

Plastic Drainage Products

Above Ground & Waste Systems Guide

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 Kalsi Plastics (UK) Ltd



THE COMPANY

Kalsi Group is a leading manufacturer of high-quality, maintenance-free plastic building products, all expertly crafted at our advanced extrusion plant in Birmingham.

We cater to the full spectrum of the building industry, providing solutions for new builds and refurbishments across both commercial and domestic sectors. Our product range includes roofline systems, rainwater systems, underground systems, and soil & waste systems, all produced to existing British Standards using the latest in industry-leading machinery and tooling systems. We are proud to hold ISO 9001:2015, Kitemarks and BBA accreditation, underscoring our commitment to quality and excellence.

Aquacel, Aquaflow, and Aquawall products are readily available from a vast network of stockists throughout England, Scotland, Wales, and Ireland. Our dedicated and adaptable delivery service ensures that every order arrives punctually and in perfect condition. We are continually expanding our fleet of vehicles to guarantee even faster delivery times.

Our telephone sales department is highly valued for its friendly and responsive customer service. Trained to assist with ordering and delivery queries, our team is always on hand to provide expert advice. Additionally, our regional sales team, covering all parts of the UK and Ireland, is well-versed in our full product range and is equipped to offer professional guidance and support.

At Kalsi Group, we place a strong emphasis on innovation and customer support, continuously striving to meet and exceed our customers' expectation and satisfaction.



APPLICATION

Aquaflow Above Ground & Waste Systems comprise a versatile selection of extruded pipes, injection-moulded fittings, and traps, designed to efficiently manage sanitary waste in all types of buildings. These systems are available in various sizes and colours, providing a comprehensive solution for both new build and refurbishment projects. All products are compliant with BS EN 12056-2:2000 and are manufactured to EN 1329-1 Building Regulations standards.



KM 585011
ISO 9001:2015

MANUFACTURING PROCESS

Aquaflow extruded pipes and injection-moulded fittings are produced from PVCu, PVC, and polypropylene materials, all of which comply with relevant British Standards. Each product is enhanced with specific processing additives, stabilisers, and pigments, ensuring an excellent appearance, durability, and performance.

COLOURS

Our Above Ground & Waste ranges are available in white, black, and grey. For detailed information on colour options and ordering instructions, please refer to our product guide.



110MM PUSH-FIT SOIL SYSTEM

This robust system offers an easy-to-install solution for waste and drainage management in residential and light commercial settings. Made from high-quality PVC, it features push-fit connections for quick, adhesive-free installation, ensuring secure, leak-proof joints. With its low-maintenance design and reliable performance, it is ideal for a range of plumbing applications.

Available in: W BL G



160MM PUSH-FIT SOIL SYSTEM

Designed for larger residential and commercial projects, this heavy-duty system is perfect for managing higher volumes of waste. The durable PVC construction and push-fit design enable straightforward, adhesive-free assembly, ensuring a secure, leak-proof connection. It is easy to maintain and highly effective for demanding drainage systems.

Available in: BL G



110MM SOLVENT SOIL SYSTEM

A versatile and durable solution for residential and commercial waste management, this system is engineered for efficiency and longevity. It features adjustable solvent weld bends (0-45° and 0-90°) to facilitate installation.



Available in: **W** **BL** **G**



PUSHFIT WASTE SYSTEM

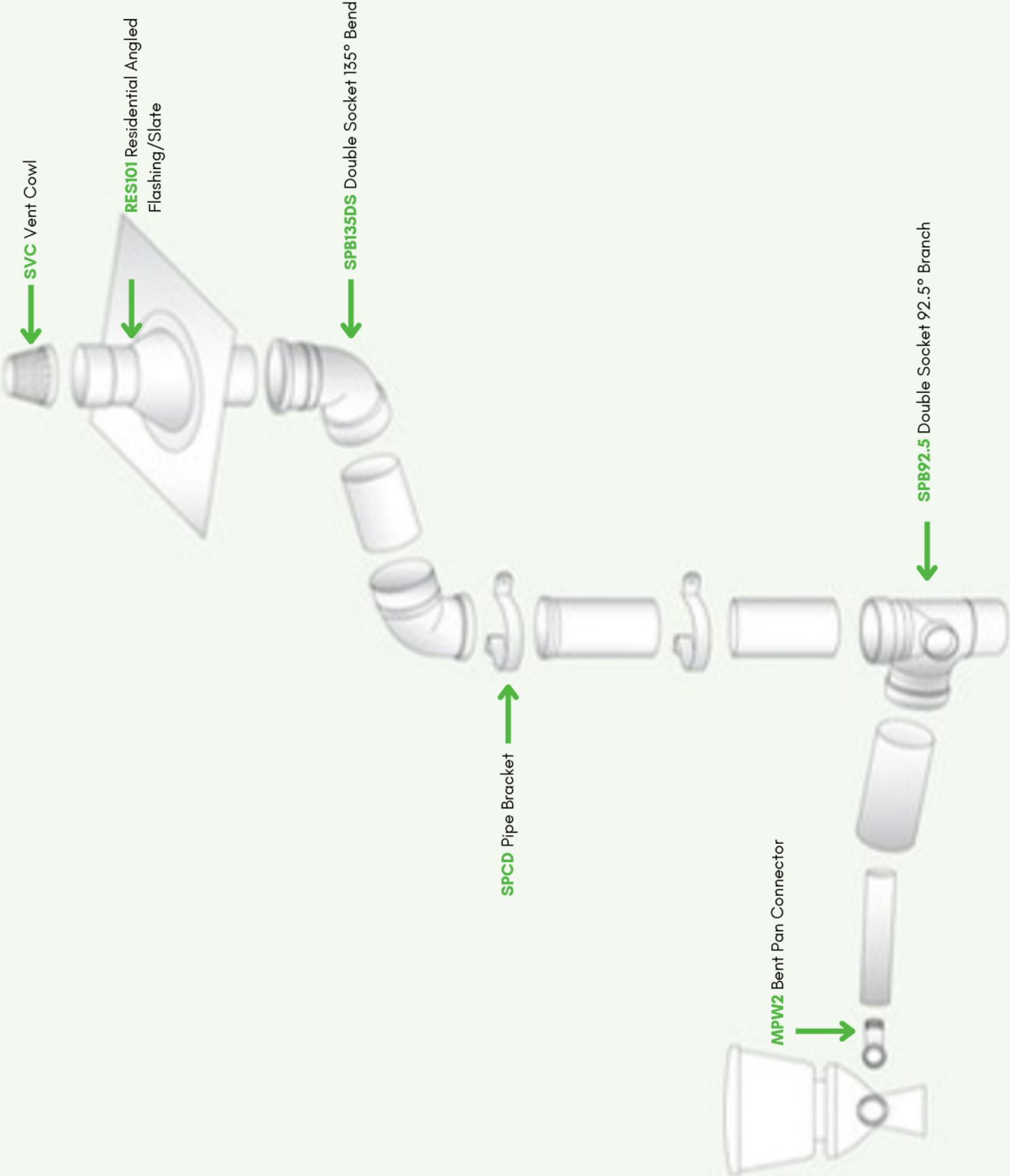


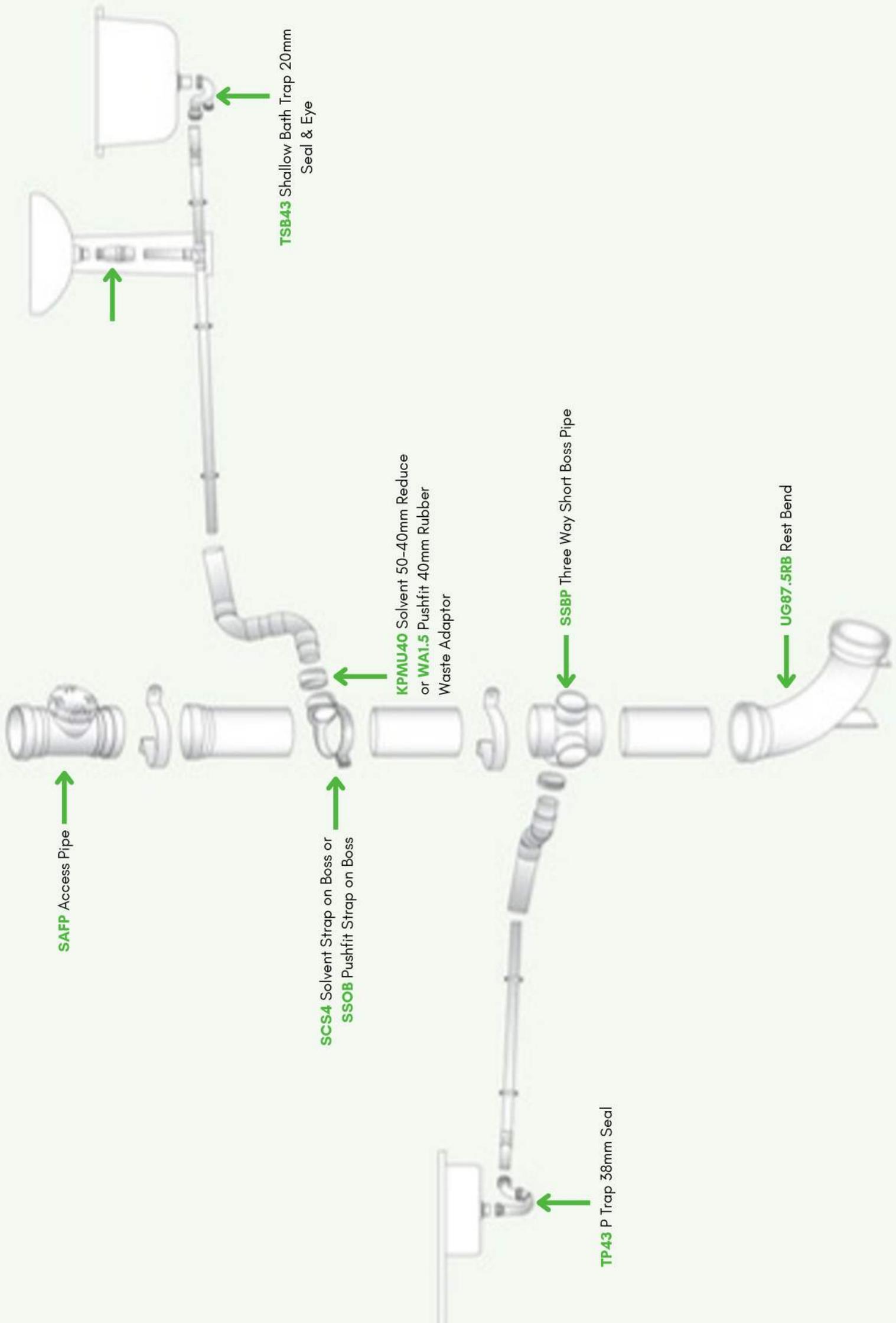
Constructed from polypropylene, this system is quick and easy to install, with a push-fit ring seal that eliminates the need for solvent welding. Available in 32mm and 40mm sizes, it is enhanced by the use of Aquaflo pipe lubricant.

Available in: **W** **BL** **G**



INSTALLATION DIAGRAM





SAFP Access Pipe

SCS4 Solvent Strap on Boss or
SSOB Pushfit Strap on Boss

KPMU40 Solvent 50-40mm Reduce
or **WA1.5** Pushfit 40mm Rubber
Waste Adaptor

SSBP Three Way Short Boss Pipe

UG87.5RB Rest Bend

TP43 P Trap 38mm Seal

TSB43 Shallow Bath Trap 20mm
Seal & Eye

SOLVENT WASTE SYSTEM

This lightweight yet strong system is a cost-effective option, available in 32mm, 40mm, and 50mm sizes. It includes a comprehensive range of fittings to meet all installation needs.

Available in: **W** **BL** **G**



MULTIPLEX WASTE SYSTEM

The Aquaflo Multiplex Waste System is a modular solution that offers flexible installation and easy customisation. Its components are accessible for maintenance, making it an ideal choice for both residential and commercial applications.

Available in: **W**



OVERFLOW WASTE SYSTEM

A 22mm PVCu solvent waste overflow system with a range of fittings designed for overflow discharge or condensation management.

Available in: W BL G



TRAPS

Our traps are designed to create a water seal, preventing sewer gases and odours from entering the building. Made from high-temperature polypropylene, these products are compliant with BS EN 274 standards. They feature compression-type outlets compatible with both plastic and copper waste pipes. Available in individual packaging for display or in bulk.

Available in: W



ACCESSORIES



1L Soluble
Lubricant



PVC Cement
125ml/250ml

STANDARDS

Aquaflow Above Ground & Waste Systems are manufactured in accordance with the following:

- The Building Regulations 2002
- Building Standards (Scotland) Regulations 1990
- Building Regulations (Northern Ireland) 1990

ACCREDITATIONS

These systems are also produced to the following British Standards:

- BS EN 274: Specification for plastic waste traps
- BS 4514/EN 1329-1: Specification for unplasticized PVC soil and ventilation pipes, fittings, and accessories
- BS EN 1451:2000 Plastic piping systems for soil and waste discharge - polypropylene
- BS 5255:1989: Specification for thermoplastic waste pipes and fittings

All products are manufactured under a quality management system registered to British Standard BS EN ISO 9001:20015.

INSTALLATION GUIDE

For a detailed, step-by-step guide on installing Aquaflow Above Ground & Waste Systems, please visit www.kalsiplastics.co.uk and navigate to the 'Above Ground & Waste' section on the products page.

MATERIAL PROPERTIES

The correct selection of a system depends on material properties. Aquaflow Above Ground & Waste Systems are primarily made from PVCu, modified PVCu, and polypropylene. Polyethylene is used in the manufacture of snap caps to retain ring seals. Unplasticised polyvinyl chloride is highly versatile, offering lightweight construction, excellent chemical resistance, fire performance, and weather resistance.

SERVICE TEMPERATURE

PVCu has a softening point at temperatures above 70°C, but can handle short intermittent discharges up to 90°C. Modified unplasticised polyvinyl chloride (MuPVC) has a softening point above 90°C, making it suitable for higher temperature discharges over prolonged periods. Polypropylene, with a softening point above 140°C, is ideal for manufacturing traps and handling high-temperature discharges.

UV LIGHT RESISTANCE

Polypropylene has good chemical resistance but poor UV light resistance, necessitating protection for exterior applications. Conversely, PVCu offers excellent UV light resistance, making it suitable for outdoor use without additional protection.

FIRE PERFORMANCE

PVCu has superior fire performance compared to most plastic materials, making it an excellent choice for indoor applications without needing additional fire protection. Polypropylene's fire performance is poorer, requiring protection for interior applications.

THERMAL EXPANSION

PVCu has a coefficient of expansion of approximately 0.06mm/m/°C, meaning a 2m length of pipe will expand by 2.4mm with a 20°C temperature increase. This expansion is factored into system design and should be considered during installation. Similar allowances should be made when installing polypropylene and MuPVC systems.

BIOLOGICAL AND CHEMICAL RESISTANCE

Aquaflow Above Ground & Waste Systems are resistant to pollution, rot, vermin, and most domestic waste chemicals. However, solvent-based products, including those in timber preservatives, may pose a risk.

TIMBER PRESERVATIVES

Before installing products on timber treated with wood preservatives, ensure the preservative is thoroughly dried, as wet solvents can damage plastic materials.



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