

Industrial & Commercial

Overview



INDUSTRIAL, COMMERCIAL &
MULTI-RESIDENTIAL SOLUTIONS

Wavin - industrial, commercial & multi-residential solutions

Mechanical services systems form an essential part of every building. They help control and manage everyday services we take for granted, such as heating and cooling, water supply and waste removal.

As Wavin and every professional specifier, consulting engineer and contractor recognises, these systems have to be highly efficient and utterly reliable for the life span of the building. Every project is different, and Wavin aims to be your business partner whatever the requirements. You would expect us to have a range of professionally engineered products to convey potable water, soil, waste and rainwater – and we do. However, we also offer you our professional expertise – encompassing technical design and advice, on-site sales and engineering support, and timely and accurate product deliveries.

To find out more about the products and services we can offer your company, read on.

A name to trust

Wavin is the leading supplier of plumbing, drainage and water management systems in the UK. Through our extensive experience we have built a market-leading reputation that extends across Europe and beyond. This internationally-acquired expertise means you can trust us to help you deliver a quality product specification that also makes good financial sense.

Our products

The Wavin ranges of products for the industrial, commercial & multi-residential sector aim to deliver cost efficient installations and proven in-service performance. All backed up by our technical expertise and professional service.

In the UK, Wavin ranges of particular interest to mechanical and electrical engineers, specifiers and designers include:

K1

A multilayer press-fit system designed to convey water in drinking water, heating and fan coil applications. WRAS approved.

SiTech Silent Soil

A technologically advanced push-fit soil system that delivers significant noise reduction when compared to a standard soil system. Meets the requirements of Part E of the Building Regulations.

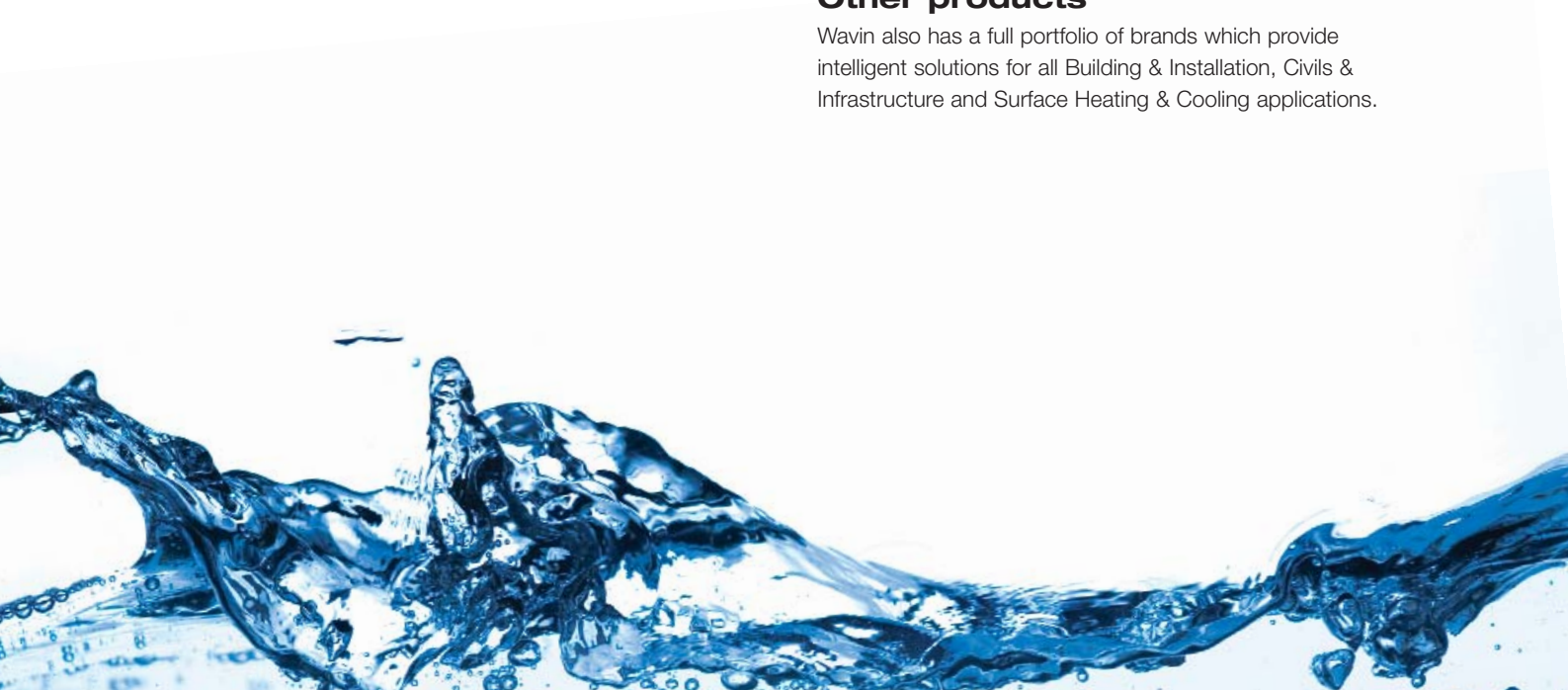
Compact Soil

A soil system that allows tight waste connections and a wide range of solvent and push-fit connections for every installation scenario.

Further information about each of these product ranges is included in this brochure, together with details of other Wavin products which can be used in industrial, commercial and multi-residential applications.

Other products

Wavin also has a full portfolio of brands which provide intelligent solutions for all Building & Installation, Civils & Infrastructure and Surface Heating & Cooling applications.



A unique blend

Wavin knows that you are experts in your field. Wavin's range is designed to showcase your expertise through the products you specify and use. Here's how.

Future-proof technology

Wavin solutions include the latest performance technology to serve specific requirements such as noise suppression and limited space situations.

Assured supply

Wavin's market-leading status ensures the widest availability of product supplies, with extensive distribution across all major merchant groups as well as direct to-site UK deliveries for major contract requirements.

Fast, easy installation

A constant theme throughout our product portfolio: Wavin components and systems are designed to enable fitting time to be minimised without compromising installation integrity, for example through the use of solvent weld, push-fit and press-fit technologies in lightweight materials.

Reliability in service

All Wavin systems and components are engineered and manufactured for outstanding durability and dependable performance. Further information about product standards and approvals can be found in the individual product pages of this brochure.

Time and cost benefits

Selecting Wavin systems offers immediate value benefits compared with cast iron, copper and other traditional materials through reduced labour and material costs.

Quality assurance

Wavin systems are independently recognised through compliance with relevant National and International standards and statutory regulations. The British Standards Institution has recognised Wavin's quality management system, which meets the requirements of BS EN ISO 9001. Further information about product quality standards is available in the individual product pages of this brochure.

Expert support

Wavin is always ready to provide the most comprehensive support wherever and whenever it is required. Professionals responsible for projects in the industrial, commercial and multi-residential sectors can draw on our full range of capabilities.

Technical support

Highly experienced Technical Support offering:

- Value-added design and take-off schedules, tailored to the building concerned.

- Covering full scope of system requirements.
- Dedicated design engineer teams.
- Fully updated to latest legislation and regulations.
- On site support available.

Technical advice helpline

Ready to guide and assist with selection, specification and installation and other technical queries.

Dedicated sales force

A team of sales personnel with specific experience in the industrial, commercial and multi-residential markets.

Environmental responsibility

Wavin is a long-established, leading pioneer of systems to conserve and control water. We routinely set annual targets for energy efficiency that are independently audited and we recycle the majority of our waste materials.

All Wavin UK manufacturing sites operate Environmental Management Systems which comply with the requirements of and are certified to BS EN ISO 14001.

In service across Europe: the evidence of success

Wavin products already have an enviable track record. Our plumbing and drainage expertise has been selected to deliver effective solutions for major projects in the industrial, commercial and multi-residential sectors around the world, such as:

- Belarus: **The National Library.**
- Germany: **Hamburg Airport**, Terminal 2.
- Germany: **Amulfpark** residential development, Munich.
- Hungary, Budapest: **Marina Riverside.**
- Norway, Bergen: **Sandviken Brygge** apartments.
- Poland, Krakow: RMF FM (radio station) **Head Office.**
- Poland, Wroclaw: **Holiday Inn Hotel.**
- The Netherlands, The Hague: **Sofitel Hotel.**
- Turkey, Istanbul: **Polat Business Centre** (39-storey).
- United Arab Emirates, Dubai: **Shangri-La Hotel.**
- United Kingdom, **Drill Hall Old Market** residential redevelopment, Bristol.

The benefits of these and other Wavin systems for industrial, commercial and multi-residential applications are described in the following pages.



Waste Traps



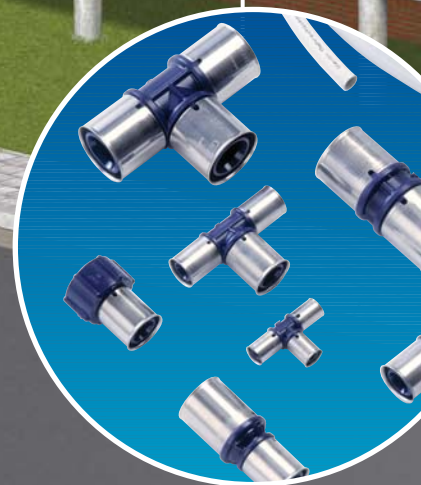
Air Admittance Valve



Compact Soil System



SiTech Silent Soil System



K1 Multilayer Press-fit System

WAVIN INDUSTRIAL & COMMERCIAL

Applications



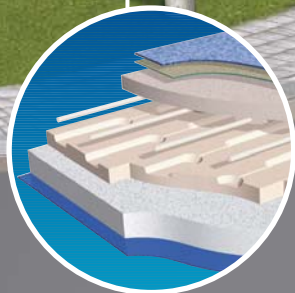
Roof Outlet



Soil & Waste Systems



Industrial Gravity Rainwater System



Underfloor Heating System

Also Available



Below Ground Drainage Systems



Water Management Systems



Pressure Pipe Systems

Introduction to K1

K1 is a multilayer composite pipe system design for potable water, sanitary and heating applications. With both WRAS and DVGW approval, it is ideally suited for installation on commercial projects such as educational establishments, apartment blocks and hotels.

The K1 system comprises multilayer composite pipe and high quality polyphenyl sulphone (PPSU) fittings with a fixed stainless steel sleeve, in sizes (outside diameter) 16mm, 20mm, 25mm, 32mm, 40mm and 50mm. Fittings are compressed onto the pipe using a battery or mains-powered press-fit tool in an operation that takes a fraction of the time of traditional soldering techniques.

Press-fit technology has been widely used in Europe for more than twenty years, and has been well established in the UK for over a decade. Specifiers, consulting engineers and contractors can be confident in the proven capabilities of K1, which was the winner of a European Design Award in 2001.



Features and benefits

The K1 system offers a number of advantages when compared to both traditional materials and similar products:

- Proven press-fit technique, with no soldering, welding or thread-cutting required.
- Heat-free jointing process means no costly Hot Works insurance permits are needed.
- Quick, simple and safe jointing method resulting in installed cost savings when compared to traditional systems.
- K1 system requires only a minimal number of fittings, thereby reducing time and cost.
- Dimensionally stable and resistant to oxygen diffusion due to the metal layer in the pipe.
- Metal layer in pipe can be detected in walls or floors through the use of a detecting device.
- Flexible and corrosion resistant due to the plastic layers in the pipe.
- High resistance to scale build-up and stress-cracking.
- High pressure and temperature resistance.
- Thermal expansion is comparable with copper.
- Light in weight, particularly in comparison to screwed steel products.

Applications

K1 can be used on potable water, hot and cold water, heating installations, and fan coil units. It is also suitable for installations where health and hygiene are of particular importance, for example in operating theatres or food preparation facilities. It is ideally suited for installation on commercial projects such as educational establishments, apartment blocks and hotels. The K1 system can also be used in both new build and refurbishment projects.



Properties of K1

K1 has the following properties.

Pipe:	Manufactured from an inner layer of PEX-c, a middle layer of aluminium and an outer layer of HDPE.
Fittings:	Manufactured from high quality polyphenyl sulphone (PPSU) with a fixed stainless steel sleeve.
Operating temperatures/ pressures:	95°C at 6 bar, 70°C at 10 bar.
Thermal expansion:	0.025-0.030 mm/mK.

Quality, standards and approvals

The K1 system is approved by the following regulatory bodies.

UK:

- WRAS approved.

Germany:

- RAL – quality mark of the Germany Community of Plastic Pipes (GKR), Bonn.
- DVGW approved.

Further information

To find out more about the K1 range, see our K1 Product & Installation Guide.

Introduction to SiTech

SiTech Silent Soil is a push-fit system available in sizes 110mm and 160mm, designed for professional soil installations where noise suppression is a priority. SiTech reduces the noise in soil pipework through innovative fitting design and the use of the material Astolan®, a mineral reinforced high density polypropylene which has been proved in Europe for more than 15 years.



Features and benefits

The SiTech Silent Soil system offers a number of advantages when compared to both traditional materials and similar products:

- Ability to absorb airborne, structure borne and impact sounds.
- Sound absorbing qualities means the wrapping of pipe and fittings with a 25mm mineral wool quilt is not necessary to achieve noise reduction.
- Tested in accordance with BS EN 1451.
- Provides chemical resistance pH2 and pH12.
- Push-fit socket connections make for a quick, easy and economical installation, without the need for costly electrofusion tooling or a circular saw. A hand saw is sufficient for pipe cutting.
- Can be fixed with any commercial rubber lined pipe bracket.
- Expensive fixing techniques are not necessary.
- Robust, resistant to corrosion and internal deposition, smooth internal pipe bore.
- Approximately half the weight of cast iron, enabling more straightforward manual handling.

Applications

As well as in soil stacks, SiTech Silent Soil is also ideal for use in suspended pipe systems, internal rainwater systems and roof drainage. The types of buildings suitable for a SiTech Silent Soil system include apartments, hotels, hospitals, libraries, office buildings, residential homes, schools, shopping malls and universities.



Properties of Sitech Silent Soil

Sitech Silent Soil has the following properties.

Pipe and fittings:	Manufactured from Astolan®, a minerally reinforced high density polypropylene with a unique molecular structure.
Chemical resistance:	PH2 to PH12.
Sound testing:	To DIN 4109.
Thermal expansion:	0.09 mm/mK.
Fire resistance:	Fire Collar Required.

Quality, standards and approvals

UK:

- BS EN 1451.
- Local Authority Building Control (LABC) System Type Approval.
- Fire Test and Assessment Reports.

Worldwide:

- **Germany:** RAL – quality mark of the Germany Community of Plastic Pipes (GKR), Bonn.
- **Germany:** German Institute of Building (DiBt) – general building inspection approval.
- **Denmark:** ETA Denmark VA 2.14 DK 6858.
- **Norway:** Godkjenningsnmda vor Sanitärmateriell Nr. 61-090.
- **Sweden:** Boverket DNR 83-4480/90.
- **Australia:** Watermark Nr.:MP52 Spec 005.
- **Turkey:** Turkish Standards Quality Appropriateness Certificate.
- **Poland:** Aprobata techniczna COBRTI INSTAL Nr AT-99-02-0670.

Further information

To find out more about the Sitech Silent Soil range, see our Sitech Silent Soil Product & Installation Guide.

Introduction to Compact Soil

The Compact Soil system benefits from reduced installed dimensions and improved connection flexibility. Available in sizes 110mm and 160mm as solvent weld or push-fit options, the Compact Soil system allows tighter waste connections, and a wide range of solvent and push-fit fittings for every installation scenario. For a full Compact Soil system, simply specify the Compact Soil fittings required, and then select pipe and ancillary products from the standard Wavin soil range.



Features and benefits

The Compact Soil system offers a number of advantages:

- Allows tighter waste connections than any other soil system.
- 40mm and 32mm 90° boss adaptors can locate and be adjusted within a 200mm cast hole.
- Innovative 'stop' position on fitting to prevent installer fitting waste with a fall less than 2.5°.
- 110mm and 160mm solvent weld and push-fit options.
- Additional selection of single, double and unequal branches with new boss configurations.
- "Dimpled" drill guides aid positioning when removing boss blanks.
- Degree angle markings enable visual identification.

Applications

The Compact Soil system is particularly suited to waste applications in buildings such as apartment complexes, halls of residence, hotels and hospitals.

Properties of Compact Soil

Compact Soil fittings:	Manufactured from PVC.
Complementary fittings and pipe:	From the standard Wavin soil range. Manufactured from PVC.

Quality, standards and approvals

The Compact Soil system is approved by the following regulatory bodies.

- Compact Soil fittings: Manufactured to BS EN 1329-1:2002.

Further information

To find out more about the Compact Soil range, see our Compact Soil Product & Installation Guide.

Customer service

Wavin operates a Technical Advisory Service to answer any technical enquiries you may have about the Wavin Industrial & Commercial range or any other Wavin product.

Literature and further information

For further information on K1, SiTech and Compact Soil products, please refer to the following:

- K1 Product & Installation Guide.
- SiTech Product & Installation Guide.
- Compact Soil Product Guide.
- Wavin Trade Price List.

To request a copy of any item(s) of current literature, please contact:

Tel: 01249 766333

Fax: 01249 766332

Email: literature@wavin.co.uk

Wavin online

All literature can be downloaded via the searchable PDF library at:

www.wavinpdfs.co.uk

Other Wavin products

PVC-U Soil systems



- Simple to use system: saves time and system cost.
- Quick, efficient assembly by means of solvent or push-fit jointing.
- Manufactured in PVC-U to BS EN 1329-1: 2000.
- 82, 110, 160mm sizes.

PVC-C Waste systems



- Heat resistant properties.
- Manufactured to BS EN 1566-1.
- 32, 40, 50mm sizes.

PVC-U Rainwater systems



- 150mm half-round.
- Connects to 110mm downpipe.
- Manufactured to BS EN 607: 2004 / BS EN 1462: 2004.

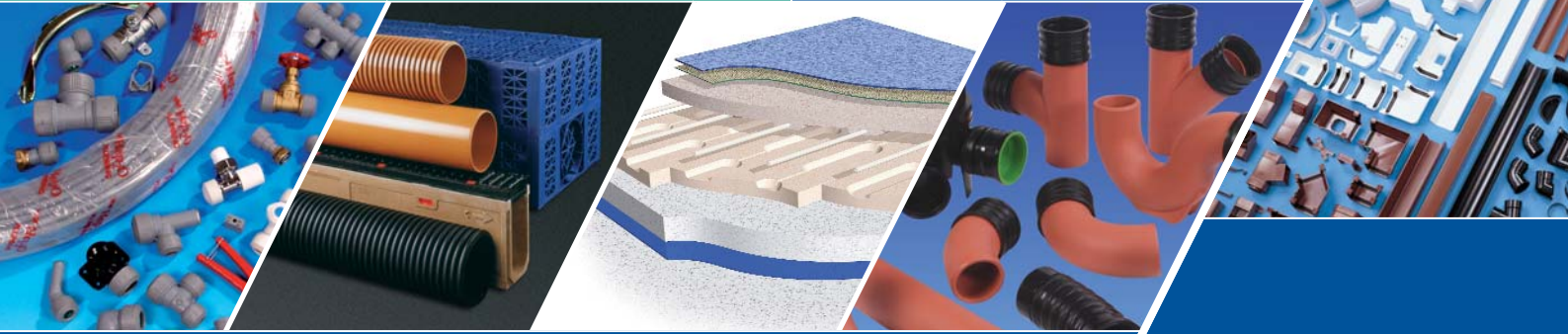
Wavin also has a full portfolio of brands which provide intelligent solutions for:

- Building & Installation.
- Civils & Infrastructure.
- Surface Heating & Cooling.



Industrial & Commercial

Overview



Meeting your needs

Wavin offers a comprehensive range of plastic, clay and terracotta systems under the OSMA, Hepworth and Hep₂O[®] brands that provide intelligent solutions for all Building & Installation, Civils & Infrastructure and Surface Heating & Cooling applications.

All Wavin systems are backed by full technical literature and project support.



Wavin operates a programme of continual product development, and therefore reserves the right to modify or amend the specification of their products without notice. All information in this publication is given in good faith, and believed to be correct at the time of going to press. However, no responsibility can be accepted for any errors, omissions or incorrect assumptions. Users should satisfy themselves that products are suitable for the purpose and application intended.



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