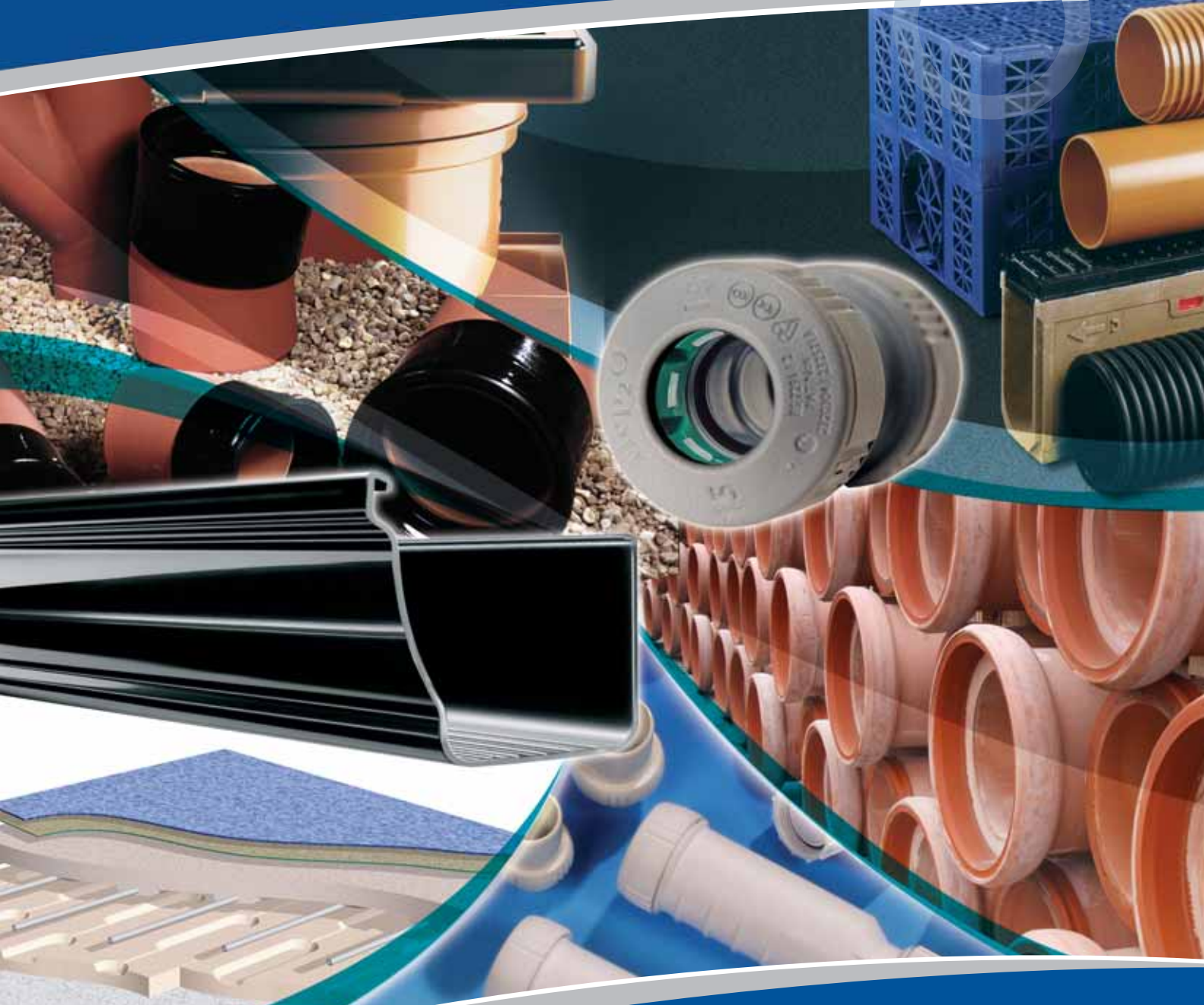




Fluid thinking



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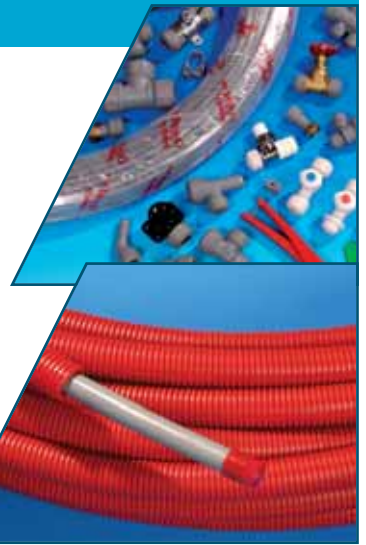
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# Hep<sub>2</sub>O<sup>®</sup>

## Hep<sub>2</sub>O<sup>®</sup> Flexible Push-Fit Plumbing System

- System comprises fittings and pipe in sizes 10mm, 15mm, 22mm and 28mm
- Suitable for use in the majority of domestic and commercial plumbing applications, such as hot and cold water and central heating systems
- Pipe available in standard and barrier format, in both coils and cut lengths
- Demountable and slimline fittings available
- Simple push-fit jointing method without the need for solder or flux
- No corrosion or scaling
- Lower thermal diffusivity means cool to the touch
- Rotatable fittings
- High resistance to impact and freezing
- Can also be connected to copper tube to BS EN 1057
- Fittings manufactured from grey polybutylene, with most popular patterns also available in white
- 50 year guarantee
- Pipes and fittings are manufactured to the standard BS 7291
- Barrier pipe is covered by BBA Agrément Certificate No 92/2823



## Soil

### OsmaSoil Ring-Seal System

- ▲ Offers a quick efficient solution, by means of a push fit joint
- ▲ Manufactured from PVC-U
- ▲ Simple to use
- ▲ Ideally suited for soil and ventilation systems
- ▲ Available in 82, 110, and 160mm diameters
- ▲ Meets requirements of BS EN 1329-1:2000 and BS 4514
- ▲ Available in Black, Grey, White and Brown



### OsmaSoil Solvent Weld System

- ▲ Secure connection achieved via solvent cement application
- ▲ Alternative method of jointing to the OsmaSoil Ring Seal systems
- ▲ Manufactured from PVC-U
- ▲ Ideally suited for soil and ventilation systems
- ▲ Available in 110 & 160mm diameters
- ▲ Meets requirements of BS EN 1329-1:2000 and BS 4514
- ▲ Available in Black, Grey, Olive, White and Brown



### SiTech Low Noise Soil System

- ▲ Push-fit sound reduction soil system for high density buildings and environments requiring noise control (hospitals, schools etc)
- ▲ Independently tested sound reducing performance
- ▲ Exceeds DIN 4109 requirements (less than or equal to 30dB at 2 litres per second flow in a noise protected room)
- ▲ Helps achieve higher acoustic performance as requested by Building Regulations Part E 2003
- ▲ More affordable and practical alternative to cast iron
- ▲ Tough and durable mineral filled 110mm high density polypropylene pipe and acoustic fittings



### Compact Soil Space-saving Soil System

- ▲ New range of 110mm and 160mm branch fittings and boss adaptors
- ▲ Designed for tight duct installations - ideal for use in high rise and flat developments
- ▲ Solvent weld and push-fit
- ▲ Short socketed boss adaptors reduce installed dimensions
- ▲ Safety stop feature on boss adaptors to ensure min 2.5° fall
- ▲ Degree angle indicator markings on boss adaptor allow for visual check of installation angle
- ▲ Bosses designed for 51mm holesaw
- ▲ Dimpled drill guides for improved safety during installation
- ▲ Available in Black and Olive
- ▲ Manufactured in PVC-U to BS EN 1329-1:2000



## Waste

### OsmaWeld System

- Secure connection achieved via solvent cement application
- Comprehensive range of pipes, bends, tees, and adaptors
- Manufactured from Acrylonitrile Butadiene Styrene (ABS)
- Available in 32, 40, and 50mm diameters
- Manufactured to BS EN 1455-1:2000
- Available in Black, Grey and White



### OSMA MUPVC Solvent Weld System

- Secure connection achieved via solvent cement application
- Comprehensive range of pipes, bends, tees, and adaptors
- Manufactured from Chlorinated Poly (Vinyl Chloride) (PVC-C), which has fire retardant properties
- Available in 32, 40, and 50mm diameters
- Meets requirements of BS EN 1566-1:2000
- Available in Black, Olive, White, and Brown



### OSMA Push-Fit System

- Offers a quick efficient solution, by means of a push fit joint
- Comprehensive range of pipes, bends, tees, and adaptors
- Manufactured from Polypropylene (PP)
- Available in 32, 40, and 50mm diameters
- Meets requirements of BS EN 1451-1:2000
- Available in Black, Grey, White and Brown



### V-Joint Traps Including Waste Connectors

- Available in a comprehensive range of fittings for all types of applications
- Includes Flexible Waste Pipe, Bottle Traps, Tubular Traps, Bath Traps, Shower Traps, Shower Gullies, Washing Machine Sink Traps and spares
- Available in 32, 40 and 50mm diameters
- Meets requirements of BS 3943:1979
- Available in White



## Overflow

### OSMA Solvent Weld Overflow

- For efficient removal of overflow water from condensing boilers and cisterns/tanks
- Secure permanent jointing
- Allows direct connection to condensing boilers
- Range includes pipe, bends, tank connectors and adaptors
- Compatible with OSMA Condensate Fittings
- Available in 21.5mm diameter
- Available in Black, Grey and White



### OsmaWeld System

- Secure connection achieved via solvent cement application
- Range includes pipe, bends, tank connectors and adaptors
- Manufactured from PVC-U
- Available in 19mm diameter
- Available in Grey and White



### ClearBore System

- Offers a quick efficient solution, by means of a push fit joint
- Range includes pipe, bends, tank connectors and adaptors
- Manufactured from Polypropylene (PP)
- Available in 19mm diameter
- Available in White



### Ancillaries

- Additional products to compliment the Soil and Waste ranges
- Includes Terminal fittings, Air admittance valves, Pipe flashings, Roof outlets, Fire stop seals
- Full range of degreasing cleaners, solvent cements and silicone lubricants
- AAV meets and exceeds the minimum airflow requirements for AAVs defined by BS EN 12056-2
- BBA certified



## Condensate Fittings

### Condensing Boiler Fittings

- A range of solutions for connecting condensate discharge through 19/22mm pipe to sanitary pipework
- Two types of trap (with and without washing machine connection) allowing connection for 19/22mm pipe
- Pipe Clamp for direct connection to 32 or 40mm waste
- Mechanical soil and rainwater pipe boss connector
- Soakaway unit for use with limestone chippings
- 110mm OD with a range of connections for 19/22/32/40mm pipe
- Where flexible pipe is used on a boiler, 3/4" Flexible tube to 19/22mm rigid pipe straight connector will solve the problem
- In-line vertical non-return valve with inlet and outlet connection for 19/22mm pipe





## Soil

### HepSoil Ringseal System

- Soil system comprising fittings and pipe in sizes 82mm, 110mm and 160mm
- Provides an efficient means of drainage of waste water and foul discharge from appliances in single and multi-storey buildings
- Push-fit system available in grey, black, brown and white colour options (not all patterns available in all colours)

- Range also incorporates push-fit WC pan connectors in 110mm in white
- Manufactured from injection moulded PVC-U
- Manufactured to the standards BS 4514 and BS EN 1329-1



### HepSoil Solvent Weld Soil System

- Soil system comprising fittings and pipe in sizes 82mm, 110mm and 160mm
- Provides an efficient means of drainage of waste water and foul discharge from appliances in single and multi-storey buildings
- Solvent-weld system available in grey, black and grey/green colour options (not all patterns available in all colours)

- Range also incorporates push-fit WC pan connectors in 110mm in white
- Manufactured from injection moulded PVC-U
- Manufactured to the standards BS 4514 and BS EN 1329-1



### HepFlex Soil System

- Flexible pan connectors
- Size 110mm
- Connects horizontal pan outlets to rigid soil systems
- Push-fit jointing system

- Flexible pipe has smooth internal bore
- Manufactured from white PVC-U
- BRE Certificate No 091/02





## Waste

### Solvent Weld System ABS

- Waste system comprising fittings and pipe in sizes 32mm, 40mm and 50mm
- Provides an efficient means of drainage of waste water, either to a gully or a soil stack, from single or multi-storey buildings
- Available in grey, black and white colour options
- Manufactured from ABS
- Resistant to most organic acids, alkalis and aqueous solutions
- Manufactured to the standards BS 4255 and BS EN 1455-1



### Solvent Weld System MUPVC

- Waste system comprising fittings and pipe in sizes 32mm, 40mm and 50mm
- Provides an efficient means of drainage of waste water, either to a gully or a soil stack, from single or multi-storey buildings
- Available in grey, black and white colour options (not all patterns available in all colours)
- Manufactured from MUPVC
- Manufactured to BS EN 1455-1:2000
- Resistant to boiling water and the majority of inorganic acids and alkalis



### Rigid Push-Fit Waste System

- Waste system comprising fittings and pipe in sizes 32mm, 40mm and 50mm
- Provides an efficient means of drainage of waste water, either to a gully or a soil stack, from single or multi-storey buildings
- Available in grey, black, brown and white colour options (not all patterns available in all colours)
- Manufactured from Polypropylene
- Unaffected by boiling water (intermittent)
- Manufactured to the standards BS 5254 and BS EN 1451-1





## Waste & Traps

### HepFlex Waste System

- Flexible waste pipe and waste connectors
- Sizes 32mm and 40mm
- Connects to push-fit or solvent-weld pipe systems)
- Ideal for use in small spaces
- Flexible pipe has smooth internal bore
- Individual solvent weld fittings & pipe can be purchased and fabricated to length on site
- White
- BRE Certificate No 065/99



## HepvO®

### HepvO® Hygienic Self-Sealing Waste Valve

- Sizes 32mm and 40mm
- Designed as an alternative to the conventional waste trap
- Can be used in all types of sanitary system applications, including primary and secondary ventilated systems, stub-stacks, and where appliances connect to a gully
- Can also be used as an air admittance valve, and in unvented domestic hot water storage systems
- Prevents the escape of foul sewer air from waste discharge systems/drains into the building
- Allows discharge water to pass easily through, regardless of the volume
- Acts as a non-return valve in the event of water back-flow
- Will not dry out or lose its seal due to siphonage, evaporation, leakage or 'blow out'
- Allows ingress of air, actively maintaining pressure equilibrium in soil and waste systems
- Can be installed vertically or horizontally (the latter with a fall of around 10°)
- Ideal for use in tight spaces
- Manufactured from white Polypropylene
- BRE Certificate No 042/97



### HepWaste Water-Seal Traps

- Waste traps in sizes 32mm and 40mm
- Available with push-fit and compression connections
- Available in white
- Manufactured from Polypropylene
- Manufactured to the standard BS 3943



## Overflow

### HepWaste Solvent Weld System

- ▲ Overflow pipes and fittings in size 21.5mm
- ▲ Available in grey, black, brown and white colour options (not all patterns available in all colours)
- ▲ Manufactured from Acrylonitrile Butadiene Styrene (ABS/PVC)



### HepWaste Push-fit System

- ▲ Overflow pipes and fittings in size 21.5mm
- ▲ Available in grey, black, brown and white colour options (not all patterns available in all colours)
- ▲ Manufactured from Polypropylene
- ▲ Push-fit jointing system



### HepWaste additional products

- ▲ Internal drain connectors to waste and soil pipes
- ▲ Vinyl floor gully in 50mm and 82mm for connection to waste or soil/drainage pipe



**RoundLine** 112mm (4½") Half-round gutter system

- Classic, simple shape
- Ideal for domestic/housing projects
- For roof areas up to a maximum of 163m<sup>2</sup> with one downpipe
- BS EN 607/1462 approved
- Connects to 68mm (2½") circular downpipe
- Available in Black, Grey, White and Brown



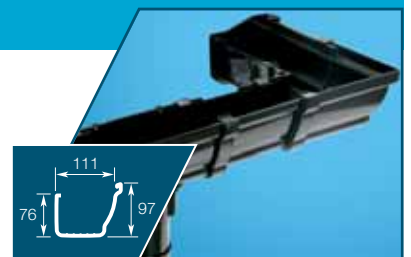
**SquareLine** 100mm (4") Square section gutter system

- Smart, efficient rectilinear profile
- Suitable for domestic buildings
- For roof areas up to a maximum of 178m<sup>2</sup> with one downpipe
- Gutter BS EN 607/1462 approved
- Connects to 61mm (2½") square and (via adaptor) 68mm (2½") circular downpipe, installed either flush to wall or off the wall
- Available in Black, White and Brown



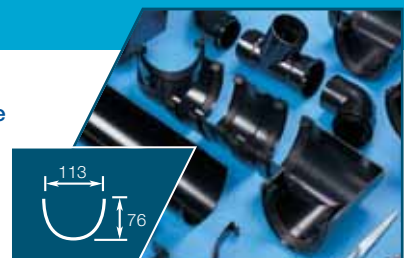
**StormLine** 111x97mm (4¼x3¾") Ogee gutter system

- High capacity profile
- Classic ogee design
- Suitable for both domestic and small commercial buildings
- For roof areas up to a maximum of 254m<sup>2</sup> with one downpipe
- Gutter BS EN 607/1462 approved
- Connects directly to 68mm RoundLine and 61mm SquareLine downpipe
- Available in Black, White and Brown



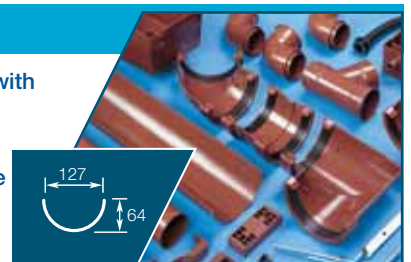
**DeepLine** 113mm (4½") Semi-elliptical gutter system

- Compact gutter with high capacity
- Suitable for domestic and small commercial buildings
- For roof areas up to a maximum of 299m<sup>2</sup> with one downpipe
- BS EN 607/1462 approved
- Connects to 68mm (2½") circular downpipe
- Available in Black, Grey, White and Brown



**SuperLine** 125mm (5") Half-round gutter system

- Versatile system offering excellent volume removal rate
- Suitable for large domestic roof areas and small commercial buildings
- For roof areas up to a maximum of 250m<sup>2</sup> with one downpipe
- BS EN 607/1462 approved
- Connects to 68mm (2½") circular downpipe
- Available in Black and Brown



**RoofLine** 150mm (6") Half-round gutter system

- Very high capacity in a classic profile
- Suitable for large commercial and industrial buildings
- For roof areas up to a maximum of 317m<sup>2</sup> with one downpipe
- BS EN 607/1462 approved
- Connects to 110mm (4") circular downpipe
- Available in Black and Grey



### Roof Outlets 82mm and 110mm Domed Roof Outlets

- For flat roofs
- May be installed in mastic asphalt or built-up roofing
- For roof areas up to a maximum of
  - 143m<sup>2</sup> for 82mm outlet
  - 209m<sup>2</sup> for 110mm outlet
- Connects to 82mm and 110mm circular downpipe



### Downpipes Circular Pipe

(All dimensions in millimetres)

Nominal Size	Outside Dimension		Wall Thickness		System Usage
	Min	Max	Min	Max	
68	68.3	68.7	1.8	2.1	RoundLine, DeepLine, StormLine, SuperLine (SquareLine via adaptor)
82	82.4	82.8	3.2	3.5	Domed Roof Outlets
110	110.0	110.4	3.2	3.5	RoofLine and Domed Roof Outlets

### Downpipes Square Pipe

(All dimensions in millimetres)

Nominal Size	Outside Dimension		Wall Thickness		System Usage
	Min	Max	Min	Max	
61	60.60	61.40	1.45	1.75	SquareLine, StormLine

Downpipes and fittings EN 12200 approved

### Approvals

BS EN 607: 2004	BS EN 1462: 2004	BS EN 12200-1: 2000
Eaves gutters & fittings - PVCU Definitions, requirements and testing.	Gutter brackets. Classification, requirements and testing.	Plastic rainwater piping systems for above ground external use - PVCU
<b>Approved Systems</b>	<b>Approved Systems</b>	<b>Approved Systems</b>
RoundLine, DeepLine, SuperLine, RoofLine, SquareLine*, StormLine* *Gutter only	RoundLine, DeepLine, SuperLine, RoofLine, SquareLine, StormLine	Round pipes 68, 82 and 110mm. Square pipe 61mm.

### Rainwater Re-use System

- Storage and supply system for non-potable use
- Captures rooftop rainfall to create localised automated supplies of non-potable water
- In-built filter collector provides enhanced water quality
- For domestic applications
- Ready to connect complete system
- Filters out leaves and debris from inflowing rainwater
- Fully automatic system, pump activated on demand
- Virtually silent operation
- Incorporating mains water top-up when there is insufficient rainwater in reserve
- May incorporate OSMA AquaCell Stormwater Management systems or large diameter TwinWall sections





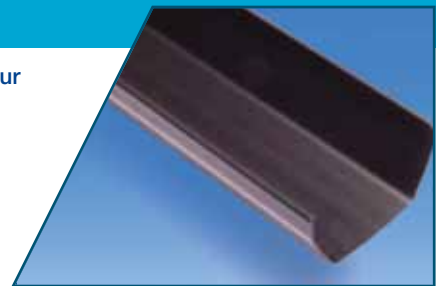
### Clickfit half-round gutter system

- Provides an efficient means of collection and drainage of rainwater from pitched roofs into the below ground drainage system
- Domestic rainwater system with nominal half round gutters of 112mm and 68mm circular downpipes
- Available in grey, black, brown and white colour options
- Manufactured from PVC-U
- Manufactured to the standard BS 4576



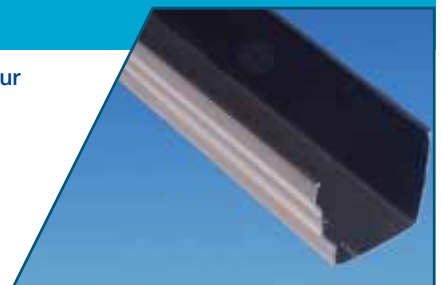
### Clickfit square gutter system

- Provides an efficient means of collection and drainage of rainwater from pitched roofs into the below ground drainage system
- Domestic rainwater system with square gutters of 112mm and 65mm square downpipes
- Available in black, brown and white colour options
- Manufactured from PVC-U



### Ogee gutter system

- Provides an efficient means of collection and drainage of rainwater from pitched roofs into the below ground drainage system
- Decorative profile with a high flow capacity – gutters are 115mm
- Can be used with square downpipe, or round downpipe with an adaptor
- Available in black, brown and white colour options
- Manufactured from PVC-U



### Clickfit high capacity gutter system

- Provides an efficient means of collection and drainage of rainwater from pitched roofs into the below ground drainage system
- Half-elliptical gutter with 115mm diameter and 75mm depth
- Can be used with 68mm round or 65mm square downpipe
- Available in grey, black, brown and white colour options
- Manufactured from PVC-U



**HepRain** Rainwater Harvesting wall tanks

- ▲ Collects rainwater from guttering for later re-use
- ▲ 750 litre capacity
- ▲ Ideal for homes and small businesses
- ▲ In-built filter collector provides enhanced water quality
- ▲ Fits all UK down pipes from 65mm to 100mm
- ▲ Optional pump
- ▲ Pleasing slimline appearance – measures 800mm (width) x 500mm (depth) x 1750mm (height)
- ▲ Available in green, black, granite and sandstone colour options
- ▲ Manufactured from polyethylene



**OsmaDrain**

- PVC-U gravity drainage system designed for both foul and surface water applications in housing, industrial, commercial and highway drainage
- OsmaDrain is based on 82mm, 110mm and 160mm diameter pipes and includes a comprehensive range of fittings and inspection chambers

- OsmaDrain complies where applicable with the following British Standards : BS EN 1401: 1998, BS EN 4660 : 2000, BS EN 7158 : 2001 and carries the British Standard Kitemark
- Holds BBA certificate number 87/1835
- Available in Golden Brown



**Anti-Flood Valves**

- Available in 110mm and 160mm diameters with single flap-gate/shut off
- Outer unit manufactured in polypropylene, with an internal rubber seal and stainless steel components
- Simple and effective way of reducing flood risk to a property caused by backflow through the drainage system

- Internal flap-gate for automatic backflow cut-off, including a stainless steel rodent protection guard
- Complies with the requirements of EN 13564-1 and Building Regulations, Part H1- Section 2.8 - 2.12
- Quick and easy to maintain and comes complete with a built in closure lever



**Flexible Couplings**

**Standard Couplers**

- For connecting pipes made from similar materials, with similar outside diameters (OD)
- Centre band provides a shear resistance where pipes are subject to earth loads

**Drain Couplers**

- For connecting pipes made from similar materials, with similar outside diameters (OD), but where a centre shear band is not required to provide support for earth loads
- Can be used where the joint will not be subjected to heavy earth loadings, unstable ground or trafficking

**Drain Adapters**

- For connecting pipes made from different materials with different outside diameters
- Accommodates vastly differing pipe diameters and materials
- Rubber sleeve is stepped to allow optimal flow
- All Flexible Couplings are Kitemarked to BS EN 295 : 1995



**UltraRib**

- PVC-U gravity sewer system suitable for adoptable and non-adoptable foul and surface water installations in sizes 150mm, 225mm and 300mm
- Smooth internal surface for enhanced flow
- Concentric external ribs provide exceptional axial rigidity and enhanced radial strength

- Lightweight for ease of handling on site
- Manufactured to Water Industry Standard (WIS) 4-35-01 and where applicable carries the British Standard Kitemark
- Holds BBA certificate numbers 98/3472 and 89/R046
- Available in Golden Brown



**TwinWall**

- A cost effective system for use in gravity surface and stormwater drainage applications
- Can be used in carrier and filter drain systems
- Perforated TwinWall exceeds the Department of Transport's minimum perforation requirement of 1000mm<sup>2</sup> per metre length

- Available in diameters from 100mm to 600mm
- Lightweight for ease of handling on site
- Holds BBA certificate numbers 02/H070 and 02/3940 for sizes 150mm to 600mm





### Non-Entry Inspection Chamber (NIC)

- ▲ Provides non-man entry access for depths up to 3.3 metres (including base)
- ▲ 350mm restricted access
- ▲ Lightweight yet extremely robust
- ▲ Reduced health and safety risk during installation and service
- ▲ Easy access for maintenance equipment
- ▲ The OSMA Non-Entry Inspection Chamber (NIC) complies with British Standard BS 7158 : 2001 and carries the British Standard Kitemark, in addition the chamber is LANTAC and STAS certified



### Tegra 600 Non-Entry Inspection Chamber

- ▲ Provides non-man entry access for depths up to 5 metres
- ▲ Significantly lighter than traditional concrete ring manholes
- ▲ No heavy machinery required for lifting and placing
- ▲ Installed and back filled within one day
- ▲ Sockets allow 7.5° movement in any direction
- ▲ Holds BBA Certificate number 07/4449 and in addition the chamber is LANTAC and STAS certified



### Land Drainage

- ▲ Corrugated PVC-U pipe system to provide a cost effective land drainage system
- ▲ Easily installed using either open cut or trenchless methods
- ▲ Improves condition, trafficability and workability of soils
- ▲ Available in 3 diameters: 80, 100, 160mm
- ▲ Complies with BS 4962: 1998 and carries the BSI Kitemark



### Channel Drainage Polymer Concrete

- ▲ Polymer concrete channel drainage range, catering for all surface water drainage requirements
- ▲ Available in widths of 100mm/150mm/200mm and 300mm
- ▲ Exceptional strength and 75% lighter in weight than traditional concrete
- ▲ Easy to cut and drill on site
- ▲ Comprehensive range of accessories



### Channel Drainage Plastic

#### OSMA RainChannel

- ▲ Made of lightweight, recycled polypropylene
- ▲ Quick and easy to cut to size on site
- ▲ Suitable for class A15 Applications
- ▲ PolyHeel self locking grating has narrow slots to prevent thin heels/small wheels getting caught

#### OSMA ThresholdChannel

- ▲ Specifically designed for use in front of doorways enabling level access as required by Part M of the Building Regulations
- ▲ Lightweight and easy to install PVC-U
- ▲ Supplied complete with grating



## Water Management Systems

### AquaCell® Systems

- AquaCell Lite (green unit) for landscaped and non trafficked locations
- AquaCell Core (dark blue unit) for trafficked locations
- Coming soon: AquaCell Plus (light blue unit) for either landscaped or trafficked locations where extra depth and/or inspectability is required (Available from October 2008)
- All the systems can be used for storage or soakaway applications
- Each unit is modular (1.0m x 0.5m x 0.4m) with 190 litre capacity, 95% void
- Can be clipped together in single layers and pegged together in multiple layers
- AquaCell Core holds BBA Certificate number 03/4018, and can meet with the Technical Requirements of the NHBC
- BBA approval is also pending for AquaCell Lite and AquaCell Plus

#### AquaCell Lite



#### AquaCell Core



#### AquaCell Plus



## Water Management Systems

### Garastor®

- A polypropylene flow control chamber connected to a water storage reservoir either made up of AquaCell units or located in a void beneath the garage of individual houses
- Two versions of Garastor are available, the 6SC500 (500mm dia x 1m deep) for garage installations, and the 6SC501 (500mm dia x 1.25m deep) for use with AquaCell
- Can be used as a flow control device for any AquaCell storage tank, no greater than one unit deep with a discharge of up to 1.4 l/s via the 30mm release flow orifice
- Maintenance free, with no moving parts or filters
- Safer than open/above ground structures
- Garastor® is manufactured under license (PATENT NO GB2357093)



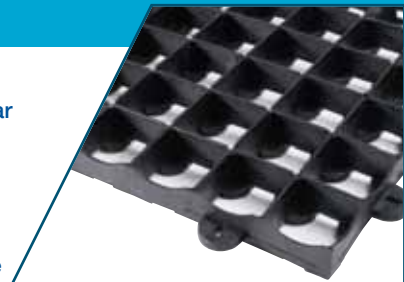
### Silt Trap

- Polypropylene chamber to collect silt and debris (500mm dia x 1.25m deep)
- Prevents silt from entering storage/soakaway tank, clogging inlet pipework
- Ensures full capacity of storage/soakaway tank is not reduced due to siltation build-up
- Ideal for use in conjunction with the AquaCell Stormwater Management System
- Lightweight and easy to install
- Easily extended (if required) using the 500mm Extension Kit (6SC205)



### AquaGrid

- Pervious plastic paving trafficable system
- Allows rainwater to infiltrate through specified infill material
- Interconnecting modular units (500mm x 500mm)
- Lateral flow capacity
- 90% surface area available for infill
- Demarcation blocks for identification of car park areas
- Suitable for grass or gravel infills
- For car parks, access roads, walkways, landscaped areas, etc
- 50mm and 75mm depth versions available





### PlastiDrain

- PVC-U gravity drainage system designed for both foul and surface water applications in housing, industrial, commercial and highway drainage
- PlastiDrain is based on 82mm, 110mm and 160mm diameter pipes and includes a comprehensive range of fittings and gullies together with a wide range of adaptors for connection to a variety of other pipe systems

- PlastiDrain complies where applicable with the following British Standards: BS EN 1401: 1998, BS EN 4660: 2000 and carries the British Standard Kitemark
- Colour is terracotta brown



### SewerDrain

- Solid wall plastic drainage system suitable for adoptable and non adoptable gravity sewers
- Socketed pipes and fittings available in 200, 250 and 315mm diameters

- SewerDrain complies where applicable with the following British Standards: BS EN 1401: 1998 and carries the British Standard Kitemark
- Colour is terracotta brown



### Universal Access Systems

- The Mini Access Chamber, Polypropylene Inspection Chamber (PPIC) and Reduced Access Telescopic PPIC are designed to be used with both SuperSleeve and PlastiDrain pipes
- The Mini Access Chamber is suitable for invert depths up to 600mm deep, whilst PPICs are suitable for invert depths up to 1200mm

- The Reduced Access Telescopic PPIC restricts man entry while still allowing effective access for inspection and cleaning. It is suitable for invert depths between 1.2m and 3m



### HepSure Flexible Couplings

#### Standard Couplers

- For connecting pipes made from similar materials, with similar outside diameters (OD)
- Centre band provides a shear resistance where pipes are subject to earth loads

#### Drain Couplers

- For connecting pipes made from similar materials, with similar outside diameters (OD), but where a centre shear band is not required to provide support for earth loads
- Can be used where the joint will not be subjected to heavy earth loadings, unstable ground or trafficking

#### Drain Adapters

- For connecting pipes made from different materials with different outside diameters
- Accommodates vastly differing pipe diameters and materials
- Rubber sleeve is stepped to allow optimal flow
- Special couplings and bushes can be fabricated to suit any unusual pipe sizes
- High grade steel ensures optimum performance, even in poor ground conditions
- All Flexible Couplings are Kitemarked to BS EN 295: 1995



### Tegra 600 Non-Entry Inspection Chamber

- ▲ Provides non-man entry access for depths up to 5 metres
- ▲ Significantly lighter than traditional concrete ring manholes
- ▲ No heavy machinery required for lifting and placing
- ▲ Installed and back filled within one day
- ▲ Sockets allow 7.5° movement in any direction
- ▲ Can be supplied to fit Hepworth plastic and clay drainage systems



### HepFlow Channel Drainage - Domestic

- ▲ Manufactured from lightweight, recycled polypropylene
- ▲ Assembled without sealant, with a positive joint for quick, easy and level installation
- ▲ Suitable for class A15 applications such as paths, patios, gardens and threshold



### Threshold Channel Drainage - Domestic

- ▲ Specifically designed for use in front of doorways enabling level access as required by Part M of the Building Regulations
- ▲ Lightweight and easy to install PVC-U
- ▲ Supplied complete with grating



### Channel Drainage - Polymer Concrete

- ▲ Polymer concrete channel drainage range, catering for all surface water drainage requirements
- ▲ Available in widths of 100mm/150mm/200mm and 300mm
- ▲ Exceptional strength and 75% lighter in weight than traditional concrete
- ▲ Easy to cut and drill on site
- ▲ Comprehensive range of accessories



### Land Drainage

- ▲ Corrugated PVC-U pipe system to provide a cost effective land drainage system
- ▲ Easily installed using either open cut or trenchless methods
- ▲ Improves condition, trafficability and workability of soils
- ▲ Available in 3 diameters: 80, 100 and 160mm
- ▲ Complies with BS 4962: 1989 and carries the BSI Kitemark





### Geotextiles

- Manufactured from polypropylene, the range includes permeable woven and non-woven Geotextiles products in a variety of weights.
- These products are used within the construction industry for separation, filtration, reinforcement drainage, erosion control and protection

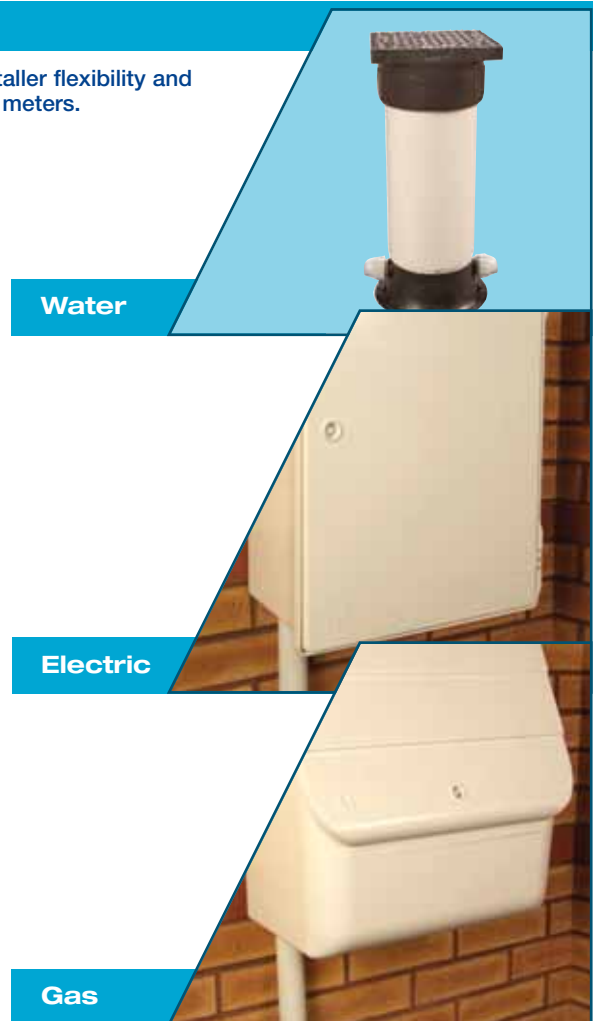
- A product selector is available to ensure that the right product is chosen for the particular application



### Composites

- A range of Gas, Electric and Water meter boxes.
- Designed to enable ease of connection between the mains supply and the consumer

- Wide range offers the installer flexibility and choice in the selection of meters.



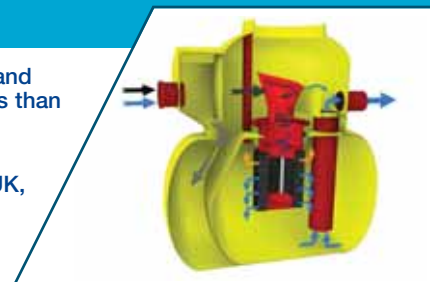
### Temporary Manhole Covers

- A unique and cost effective solution for the protection of personnel, equipment and materials during the construction of manholes
- Simple to install by one person with fit and twist action
- Low risk of theft with use of built-in security feature
- Reusable, easy to stack and store
- Suitable for 600 and 675mm square openings



### Oil Separators

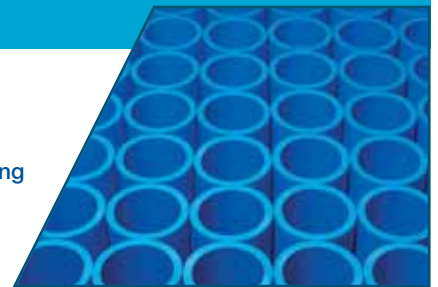
- A comprehensive range of Class 1 by-pass separators
- Suitable for use on car parks, roads and industrial areas
- Innovative design, small and easy to handle
- Separators can be manufactured with a range of inlet/outlet diameters
- Tested in accordance with BS EN 858 and proven to separate oil and water to less than 1ppm
- Range fulfils all current regulatory requirements for oil separators in the UK, including Environment Agency's PPG3 guidelines



## PE Systems for Potable Water

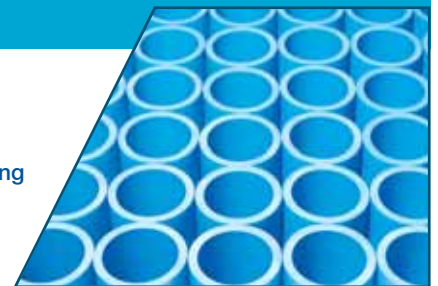
### PE100: SupaSure

- Dark blue pipe manufactured from HPPE (High Performance Polyethylene)
- Available in two pressure ratings:  
16 Bar SDR 11 pipe – sizes 90-560mm  
10 Bar SDR 17 pipe – sizes 90-630mm
- Kitemarked to BS EN 12201-2: 2003 (KM 80817)
- Range of straight lengths and coil sizes available
- Electrofusion fittings available
- Resistant to corrosion in naturally occurring ground conditions
- Easy installation



### PE80: Sure

- Light blue service pipe manufactured from MDPE (Medium Density Polyethylene)
- Available in service pipe sizes.  
Pressure rating:  
12.5 Bar SDR 9 pipe – sizes 20mm  
SDR 11 pipe – sizes 25-63mm
- Kitemarked to BS EN 12201-2: 2003 (KM 80817)
- Range of straight lengths and coil sizes available
- Electrofusion fittings available
- Resistant to corrosion in naturally occurring ground conditions
- Easy installation



### PE Barrier Pipe System: Trigon

- Multi-layered polyethylene and aluminium pipe system with corrosion-resistant fittings.
- Pressure rating:  
12.5 Bar – sizes 25, 32 and 63mm
- Provides reliable, cost effective solutions for delivering drinking water through contaminated environments
- Blue pipe marked with distinctive brown stripes for easy identification
- No pipe preparation or wrapping of joints needed with fittings
- The core pipe - standard WavinSure service pipe - is Kitemarked to BS EN 12201-2: 2003 (KM 80817)
- The Trigon pipe is Kitemarked to WIS 4-32-19 (KM 533039)
- The Trigon pipe is approved under Regulation 31 (England and Wales), Regulation 27 (Scotland) and Regulation 30 (Northern Ireland) - NB : Formally Regulation 25
- Trigon fittings are WRc, DVGW and KIWA approved
- Trigon has full system approval under WRAS: - certificate no. 0409106





### PE Systems for Non-Potable Water

#### PE100: Jet

- ▲ Black pipe manufactured from HPPE (High Performance Polyethylene)
- ▲ Available in two pressure ratings:
  - 16 Bar SDR 11 pipe – sizes 90-560mm
  - 10 Bar SDR 17 pipe – sizes 90-630mm
- ▲ Electrofusion fittings available
- ▲ Suitable for transportation of non-potable water and sewerage below ground and for irrigation
- ▲ May also be used for Potable Water in above ground applications only
- ▲ Well established in industry providing optimal performance for long service life
- ▲ Resistant to corrosion in naturally occurring ground conditions
- ▲ Easy installation



#### PE80: Black

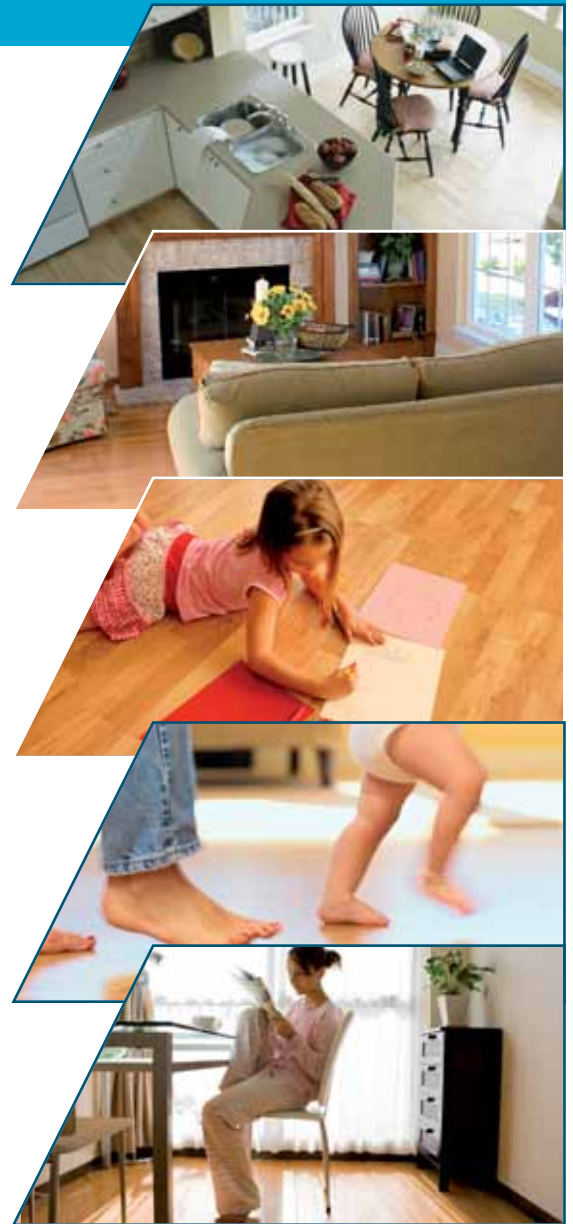
- ▲ Black service pipe manufactured from MDPE (Medium Density Polyethylene)
- ▲ Available in service pipe sizes. Pressure rating:
  - 12.5 Bar SDR 9 pipe – sizes 20mm
  - SDR 11 pipe – sizes 25-63mm
- ▲ Electrofusion fittings available
- ▲ Suitable for transportation of non-potable water and sewerage below ground and for irrigation
- ▲ May also be used for Potable Water in above ground applications only
- ▲ Well established in industry providing optimal performance for long service life
- ▲ Resistant to corrosion in naturally occurring ground conditions
- ▲ Easy installation



### Underfloor Heating Systems

#### Benefits and Advantages of UFH

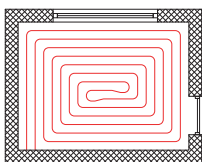
- **Energy efficient 'invisible' warmth**
  - savings on running costs compared to radiator systems
- **Uniform heat**
  - Good distribution over the whole room
- **Greater level of comfort**
  - the temperature profile is very close to ideal human comfort levels
- **No cold floors**
  - stone and ceramic floors are more pleasant underfoot when warm
- **Compliments the operation of condensing boilers**
  - underfloor heating is designed to operate at lower temperatures than radiator systems
- **Ideal for modern lifestyles**
  - allows total freedom on furniture layout and room utilisation
- **Clean interior design**
  - no dusting behind radiators required
- **Safe for children, elderly and the less able**
  - no exposed hot surfaces to create a burn hazard
- **Low allergy**
  - convected airborne dust levels reduced and underfloor heating discourages house dust mite within floor coverings
- **Low maintenance**
  - no decoration or renewal of radiators, and no radiators to 'drop' to enable redecoration of rooms
- **No staining of walls**
  - convective air currents above radiators often stain decorations
- **Less likelihood of insurance leak claims**
  - no risk of leaks from radiators and associated connections
- **Silent running**
  - no expansion creaking or water flow noise via radiators
- **Ideal for high ceilings**
  - maintains the heat at the same level as the occupancy



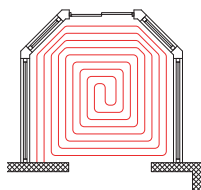
#### Typical Layouts

Your project may not precisely match any of these examples, but they can help you plan your pipe layout for a UFH installation:

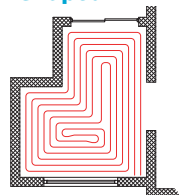
**Basic Square**



**Conservatory**

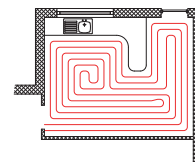


**L Shaped**



**Irregular Shape**

To avoid major fittings: this could be for a kitchen or bathroom



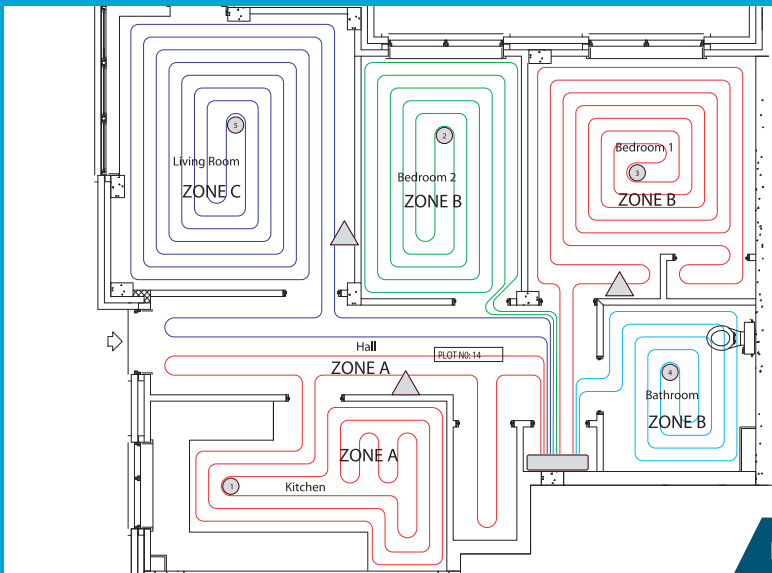
**Serpentine Pattern**

Is an option for Staples installations. Pocketed Polystyrene & foiled Polystyrene machined channels also use this pattern



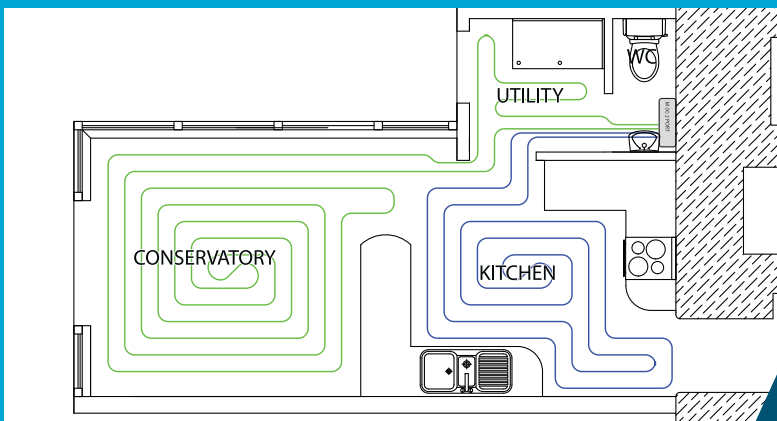
### Typical Room Layouts - continued

#### Typical Layout - for standard 1 or 2 bedroomed flat/apartment

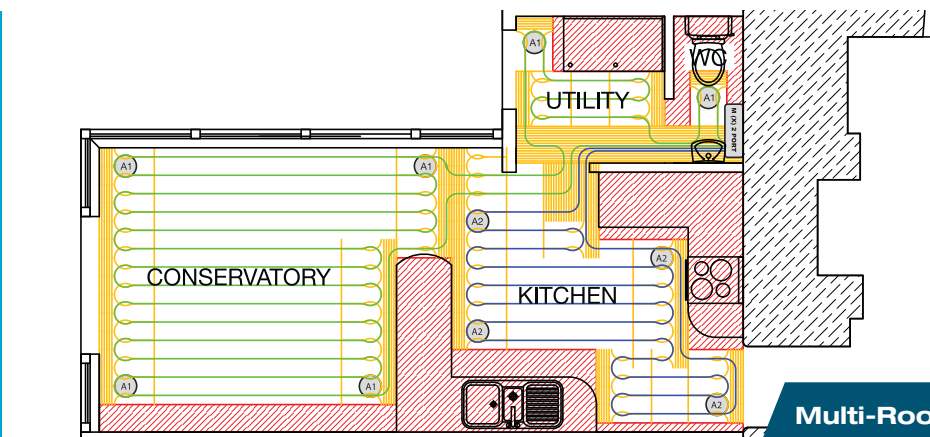


Flat Layout -Spiral

#### Typical Layout - for a conservatory/kitchen/utility/WC extension



Multi-Room Extension Layout -Spiral



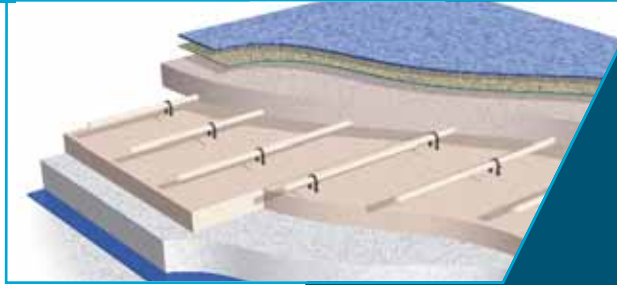
Multi-Room Extension Layout -Serpentine

## OSMA UFH Systems for Screeded Floors

- for installation on a solid floor slab

### Staples - lowest cost system

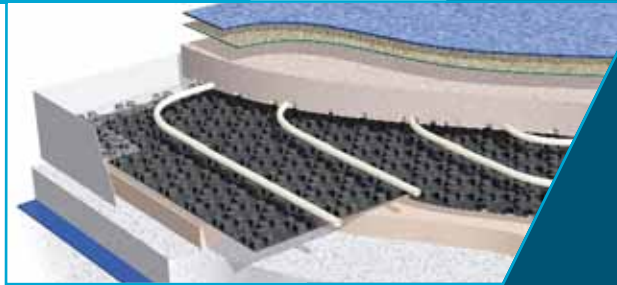
- ▲ For small and irregular shaped floor areas
- ▲ Extremely versatile: easily tailored
- ▲ Lowest material cost



Basic system for placement on rigid insulation panels over a solid floor slab, before screeding.

### System Plate - fast, flexible layout

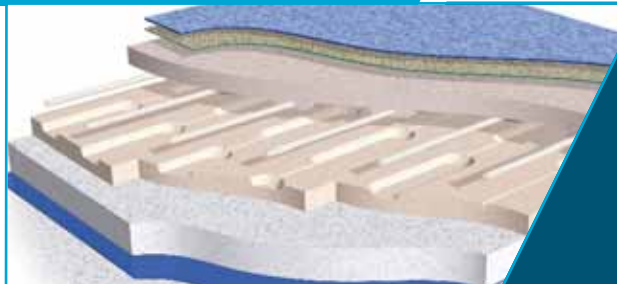
- ▲ For extensions and new-build houses and flats
- ▲ Fast pipe placement with full layout flexibility - including diagonals
- ▲ Vacuum-formed, interlocking sheets with integral grips to securely hold pipe and enable secure turns



Interlocking sheets of vacuum-formed tough plastic. For placement over rigid insulation panels on a solid floor slab, before pipe installation and screeding.

### Pocketed Polystyrene - time saving option

- ▲ For extensions and new-build houses and flats
- ▲ Enables simultaneous placement of insulation and pipe base
- ▲ Machined channels to grip pipe at fixed centres for consistent output
- ▲ Pockets at intervals allow screed to wrap round pipe



Insulation panels with channels for pipe and, at intervals, pockets for screed. For placement over a solid floor slab, before pipe installation and screeding.

### Electric Mat 150 - for concrete floors only

- ▲ Ideal for both retrofit/renovation and new-build projects
- ▲ Thin heating cable and self-adhesive glass fibre mesh mat
- ▲ Ideal for kitchens, conservatories and extensions
- ▲ Easily cut to room shape
- ▲ Must be installed on a solid subfloor with a ceramic floor finish



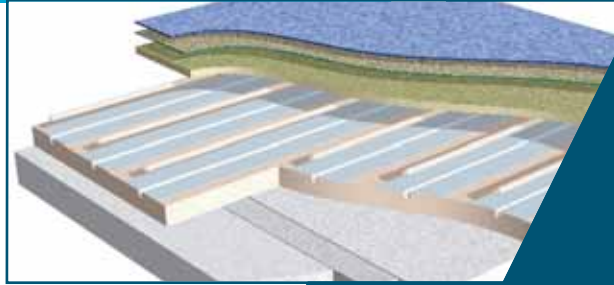
Electric mat system. Ideal for both renovation and new build projects. Suitable for all rooms and easy to install.

## OSMA UFH Systems for Timber Floors

- for installation with suspended floor constructions and fully floating floors

### Foiled Polystyrene - complete with foil diffusers

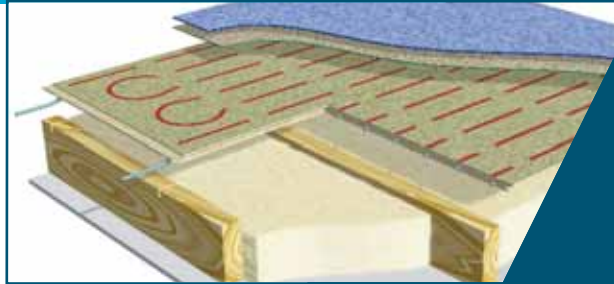
- For extensions and new-build houses and flats
- Fast pipe placement into pre-cut channels with pre-fitted aluminium heat diffusers
- Versions for timber joisted or battened floor construction, or for fully floating floors



Insulation panels with pre-cut channels for pipe, and pre-fitted heat diffusers. For placement over timber joisted or battened floor constructions, or for floating floors.

### Modular Chipboard - pre-fitted deck and pipe

- For extensions and new-build houses and flats
- Tongued and grooved chipboard panels with integral pipe
- For placement over timber joisted or battened floor constructions
- Enables simultaneous placement of floor deck and UFH pipe



Standard sized tongued-and-grooved chipboard panels with pre-fitted UFH pipe. For placement over timber joisted or battened floor constructions.

### Electric Mat 100

- Ideal for both retrofit/renovation and new-build projects
- Thin heating cable and self-adhesive glass fibre mesh mat
- Ideal for bedrooms and bathrooms
- Easily cut to room shape
- Recommended for use with timber floor construction: also suitable for other types/finishes



Electric mat system. Ideal for both renovation and new build projects. Suitable for all rooms and easy to install.

## Manifolds, Controls and Thermostats

### Tigris Manifold

Complete manifold assembly units for up to 12 circuits. Versions available from 2-12 Ports.



### Controls

Complete range of electronic controls and programmable thermostats. For the control of up to 8 UFH heating zones.



### Thermostats PRT-E

Dual Sensor (air & floor). Thermostat recommended for use with OSMA Electric Underfloor Heating mats.





## Hep<sub>2</sub>O<sup>®</sup> Underfloor Heating Packs

Hep<sub>2</sub>O<sup>®</sup> UFH Packs have been designed to allow easy installation of underfloor heating to a single room where the use of a manifold is either impractical or uneconomical. These packs offer simple solutions for incorporating UFH into your existing traditional radiator circuits.

### Hep<sub>2</sub>O<sup>®</sup> UFH Conservatory Pack System

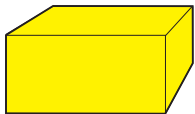
- everything required to install a system for a room with solid floor construction up to 15m<sup>2</sup>.

- ▲ 100m coil x 16mm Hep<sub>2</sub>O<sup>®</sup> UFH pipe
- ▲ 25m coil of edge insulation strip
- ▲ Return temperature control sensor
- ▲ Return temperature limiter valve
- ▲ System isolation valve
- ▲ Pipe clips
- ▲ Cold form bends



### Hep<sub>2</sub>O<sup>®</sup> UFH Room Pack System

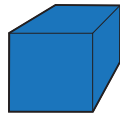
- modular system consisting of everything required to install a single circuit of max 19m<sup>2</sup>, or two circuits up to a max 39m<sup>2</sup>  
- suitable for use with screed or timber floor constructions



Control Pack



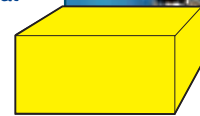
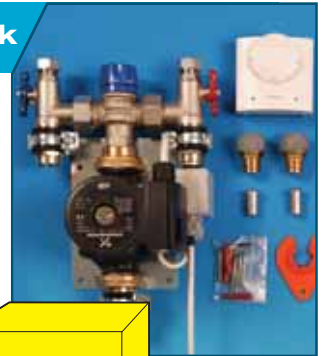
Pipe Pack



Twin Circuit Pack

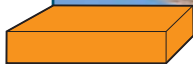
### Hep<sub>2</sub>O<sup>®</sup> UFH Control Pack

- ▲ Pre-assembled compact UFH control unit
- ▲ Hep<sub>2</sub>O<sup>®</sup> Adaptors x 2
- ▲ Hep<sub>2</sub>O<sup>®</sup> Support Sleeves x 2
- ▲ Hep<sub>2</sub>O<sup>®</sup> Grab Wedge Removal Tool
- ▲ Hep<sub>2</sub>O<sup>®</sup> Push-fit Installation leaflet
- ▲ Hep<sub>2</sub>O<sup>®</sup> Electronic Room Thermostat
- ▲ Pump Instructions
- ▲ Installation Instructions
- ▲ Screw fixing kit



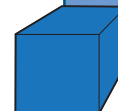
### Hep<sub>2</sub>O<sup>®</sup> UFH Pipe Pack

- ▲ Hep<sub>2</sub>O<sup>®</sup> UFH pipe 16mm x 100m coil
- ▲ Hep<sub>2</sub>O<sup>®</sup> UFH pipe staples 2 x 100 pack
- ▲ Hep<sub>2</sub>O<sup>®</sup> UFH Edge Insulation 25m roll
- ▲ Hep<sub>2</sub>O<sup>®</sup> Cold Forming Bends x 2



### Hep<sub>2</sub>O<sup>®</sup> UFH Twin Circuit Pack

- ▲ Hep<sub>2</sub>O<sup>®</sup> Prefabricated Flow/Return Manifolds x 2
- ▲ Hep<sub>2</sub>O<sup>®</sup> Support Sleeves x 6
- ▲ Hep<sub>2</sub>O<sup>®</sup> pipe clips x 6
- ▲ Hep<sub>2</sub>O<sup>®</sup> pipe clip spacers x 4
- ▲ Hep<sub>2</sub>O<sup>®</sup> Push-fit Installation leaflet



### Options

#### Single circuit (Max floor area 19m<sup>2</sup>)

$$\text{Control Pack} + \text{Pipe Pack} = 19\text{m}^2 \text{ max}$$

#### Twin circuit (Max floor area 39m<sup>2</sup>)

$$\text{Control Pack} + \text{Pipe Pack} + \text{Pipe Pack} + \text{Twin Circuit Pack} = 39\text{m}^2 \text{ max}$$

## Hep2O® UFH Systems for Screeded Floors

### Staples

- Simple pipe and staples system
- Can be tailored to suit any room shape
- Lowest material cost system



### Alternatives

#### Clip Rail

- Increases security of pipe to insulation over Staples system
- Faster installation process
- Maintains regular pipe spacings



#### Screed Floor Tile

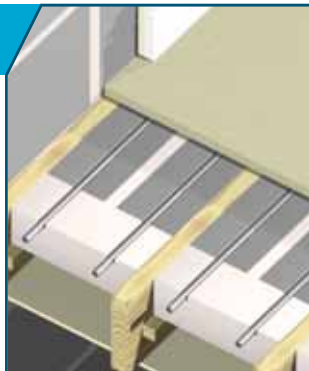
- Can be cut to suit room shape
- Form grid to facilitate quick and easy laying of pipe
- Holds pipe firmly in place during screeding process



## Hep2O® UFH Systems for Timber Floors

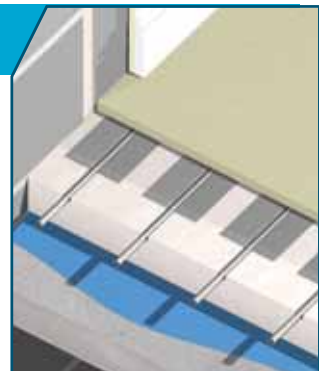
### Suspended Floor Construction

- Suitable for new and existing buildings
- Uses heat conductor plates supported above insulation that is fixed between joists



### Floating Floor Construction

- Combines heat conductor plate with floating floor panel
- Pre-routed floating floor panel facilitates pipe installation



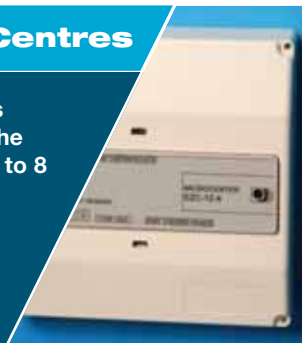
### Manifolds

Complete manifold assembly available in configurations of 2-12 Ports.



### Wiring Centres

4-8 way suitable for the control of up to 8 UFH zones



### Thermostats

Electronic room thermostat with LED status indication





**SuperSleve** Underground gravity drainage system

- Available in 100, 150, 225, 300mm diameters
- Suitable for domestic, commercial, industrial and adoptable drainage systems
- A rigid pipe system jointed by factory fitted or plain ended couplings suitable for gravity underground drainage and sewerage applications
- High strength pipes enable the use of recycled aggregates increasing the sustainability of construction projects
- SuperSleve pipes are resistant to high water pressure jetting and have a Lifetime Jetting Guarantee up to 7500psi at 20 gallons per minute, the guarantee is stamped on each pipe
- A durable drainage system having lifetime expectancy in excess of 100 years providing a low whole life cost combined with a long asset life
- Manufactured to BS EN 295-1
- Agreement Certificate 02/3884 for reduced bedding installation and application. Connects to other drainage systems and materials by using Flexible Couplings



**SuperSeal** Underground gravity drainage system

- Available in 150, 225, 300mm diameters
- Suitable for domestic, commercial, industrial and adoptable drainage systems
- A rigid pipe system with a socket joint providing pipeline flexibility. Suitable for gravity underground drainage and sewerage applications
- High strength pipes enable the use of recycled aggregates increasing the sustainability of construction projects
- SuperSeal pipes are resistant to high water pressure jetting and have a Lifetime Jetting Guarantee up to 7500psi at 20 gallons per minute, the guarantee is stamped on each pipe
- Highly suitable for use on brown-field sites
- Manufactured to BS EN 295-1
- Connects to other drainage systems and materials by using Flexible Couplings



**HepSeal** Underground gravity drainage system

- Available in 400, 450, 500, 600mm diameters
- Suitable for commercial, industrial and adoptable drainage systems
- A larger diameter rigid pipe jointed by a socket and spigot system suitable for gravity underground drainage and sewerage applications
- High strength pipes enable the use of recycled aggregates increasing the sustainability of construction projects
- HepSeal pipes are resistant to high water pressure jetting and have a Lifetime Jetting Guarantee up to 7500psi at 20 gallons per minute, the guarantee is stamped on each pipe
- Available with special purpose sealing rings for chemical or hydrocarbon contamination on site
- Manufactured to BS EN 295-1
- Connects to other drainage systems and materials by using Flexible Couplings





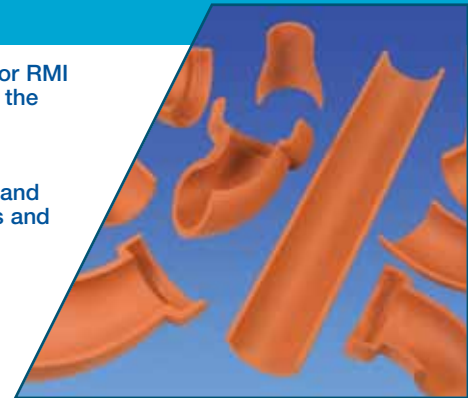
### HepLine Underground gravity drainage system

- Available in 100, 150, 225, 300, 400, 450mm diameters
- Underground land/field drainage system
- Suitable for domestic, industrial and agricultural sub-soil drainage systems
- A rigid pipe system jointed by couplings and socket and spigot system suitable for sub-soil drainage applications
- High strength pipes suitable for use under trafficked highway and field areas
- Suitable for use with dispersal lines from septic tanks and small sewerage treatment plants
- A durable land drainage system having lifetime expectancy in excess of 100 years
- Manufactured to BS EN 295-5
- Connects to other drainage systems and materials by using Flexible Couplings



### Clay Channels and Unjointed Range

- Available in 100, 150, 225, 300, 400, 450, 600mm diameters
- Manhole channel components and traditional drainage fittings 100 & 150mm
- A range of plain ended or socketed channel fittings for use in foul and surface water manholes. Plus, a range of traditional gullies and associated drainage fittings
- An extensive range of channels enabling almost any combination of manhole layout to be constructed on site
- Traditional range of fittings suitable for RMI projects maintaining the character of the original building
- Manufactured to BS EN 295-1
- Connects to other drainage systems and materials by using Flexible Couplings and cement mortar joints



### Gullies Water inlets gullies for highways and other impermeable areas

- Available in 100 and 150mm outlet diameters
- A range of plain ended gullies for direct connection to the SuperSleve system
- Smaller paved areas can be drained using the Yard Gully range which is supplied with either a light duty or medium duty grid and frame which can be rotated to align with pathways and paviers
- Larger paved areas such as car parks and highways can be drained using the road gully range, these gullies have a larger silt retention capacity to optimise maintenance schedules
- The Grease Trap is suitable for smaller commercial installations to prevent fat, and grease getting into the sewerage system
- Manufactured to BS 65 1991





### Flue Liners

- Available in square and round
- From 125mm round to 300mm square liners
- Including three bend sizes (22.5°, 30°, 37.5°)
- To meet all fireplace sizes and applications
- Hepworth flue liners are all manufactured to Class A1 giving them high thermal resistance, and greater protection against soot fires



### Chimney Pots

- With over 40 different designs
- All pots are available in three colours; red, buff and blue/black
- In a range of heights from 150mm to 1200mm
- Offering both functional and highly decorative styles
- Hand-made pots can be manufactured to the customers specification



### Air Bricks & Cavity Liners

- Used to enable ventilation to enter the house
- The Air Brick Range includes three different styles; square holed, rectangular holed, louvre hole
- Available in three different colours; red, buff, blue/black
- Available in three different sizes; 215mm x 65mm, 215mm x 140mm, 215mm x 215mm
- Cavity liners are available to match all the air brick sizes and are used to bridge the cavity in twin skinned walls



### Ridge Tiles & Finials

- Ridge tiles are used at the apex of the roof to seal the roof tiles
- Finials are the decorative end tiles that seal the roof edge
- There are a wide range of plain and decorative roof tiles
- Available in a range of angles from 75° to 135°
- All available in three colours; red, buff and blue/black



### Gas & Ventilation Terminals

- Gas Terminals are used for the termination of concrete gas block system or can be fitted into existing chimney pot fitted with clay or metal liners
- Ventilation Terminals are designed to ventilate redundant flues; they must not be used on live chimneys
- Both are available in various styles and three different colours



### Fireplace Systems

- These are the components used to form the fireplace, they include; fireback, lintels, corbels, and adaptor
- Manufactured to be highly heat resistant, they gather the heat and smoke to carry it up the flue
- They also support the weight of the flue and chimney



# Contact Details

## Wavin Plastics

## Hepworth Building Products

### Sales Orders

Tel 01249 766611  
Fax 01249 443473  
email [info@wavin.co.uk](mailto:info@wavin.co.uk)

0870 443 6000  
0870 443 8000  
[customerservices@hepworth.co.uk](mailto:customerservices@hepworth.co.uk)

### Technical

Tel 01249 766655  
Fax 01249 766653  
email [technical.design@wavin.co.uk](mailto:technical.design@wavin.co.uk)

### Below ground products

0870 443 5551  
0870 443 5552  
[drainage@hepworth.co.uk](mailto:drainage@hepworth.co.uk)

### Above ground products

0870 460 5578  
0870 460 5579  
[plumbing@hepworth.co.uk](mailto:plumbing@hepworth.co.uk)

### Literature

Tel 01249 766333  
Fax 01249 766332  
email [literature@wavin.co.uk](mailto:literature@wavin.co.uk)

0870 443 6000  
0870 443 8000  
[info@hepworth.co.uk](mailto:info@hepworth.co.uk)

### Image Bank

[www.wavinimages.co.uk](http://www.wavinimages.co.uk)

[www.hepstore.co.uk](http://www.hepstore.co.uk)

### Literature pdfs

[www.wavinpdfs.co.uk](http://www.wavinpdfs.co.uk)

[www.hepstore.co.uk](http://www.hepstore.co.uk)

### OSMA UFH Sales/ Technical Enquiries

Tel 01392 444122  
Fax 01392 444135  
email [info@osmaufh.co.uk](mailto:info@osmaufh.co.uk)



Fluid thinking

Wavin UK are able to offer a comprehensive range of plastic, clay and terracotta systems under the **OSMA** and **Hepworth** brands that provide intelligent solutions for all Building & Installation, Civils & Infrastructure and Surface Heating & Cooling applications.

*All OSMA and Hepworth systems are backed by full technical literature and project support.*



**Wavin Plastics Ltd**  
Parsonage Way  
Chippenham  
Wiltshire SN15 5PN  
Tel: 01249 766600  
Fax: 01249 443286  
Email: [info@wavin.co.uk](mailto:info@wavin.co.uk)

**Hepworth Building Products Ltd**  
Edlington Lane  
Edlington  
Doncaster  
South Yorkshire DN12 1BY  
Tel: 01709 856300  
Fax: 01709 856301  
Email: [info@hepworth.co.uk](mailto:info@hepworth.co.uk)

**[www.wavin.co.uk](http://www.wavin.co.uk)**  
**[www.hepworth.co.uk](http://www.hepworth.co.uk)**