

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

- ▲ Classic, simple shape
- ▲ Ideal for domestic/housing projects
- ▲ For roof areas up to a maximum of 115m² with one downpipe
- ▲ Meets requirements of BS 4576: Part 1: 1989
- ▲ 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 180m² with one downpipe
- ▲ Meets requirements of BS 4576: Part 1: 1989
- ▲ 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 310m² with one downpipe
- ▲ Meets requirements of BS 4576: Part 1: 1989
- ▲ Connects to 110mm (4") circular downpipe
- ▲ Available in Black and Grey



Mini-Fit 75mm (3") Half-round gutter system

- ▲ Small profile
- ▲ Suitable for porches, conservatories, sheds, garages, and other small roof areas
- ▲ For roof areas up to a maximum of 40m² with one downpipe
- ▲ Connects to 55mm (2") circular downpipe
- ▲ Available in Grey 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 220m² with one downpipe
- 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 148m² with one downpipe
- 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



Amazon 110x75mm (4x3”) Square section gutter system

- Distinctive, high capacity profiled design
- Suitable for both domestic and small commercial buildings
- For roof areas up to a maximum of 212m² with one downpipe
- Connects to 70mm (2¾”) square pipe and (via adaptor) 68mm (2½”) circular downpipe
- Available in Black, White and Brown



Downpipes - Circular Pipe

(All dimensions in millimetres)

Nominal Size	Outside Dimension		Wall Thickness		System Usage
	Min	Max	Min	Max	
55	55.3	55.7	1.3	1.5	Mini-Fit
68	68.3	68.7	1.8	2.1	RoundLine, DeepLine, SuperLine (SquareLine and Amazon 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

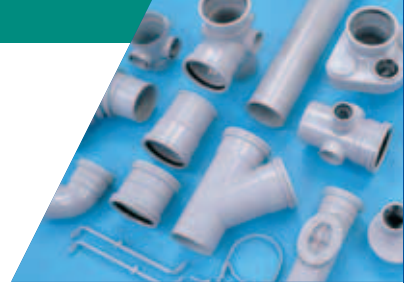
(All dimensions in millimetres)

Nominal Size	Outside Dimension		Wall Thickness		System Usage
	Min	Max	Min	Max	
61	60.60	61.40	1.45	1.75	SquareLine
70	69.85	70.15	1.85	2.15	Amazon

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



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
- Meets requirements of BS 5255
- Available in 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 Modified Unplasticized Polyvinyl Chloride (MUPVC) which has fire retardant properties
- Available in 32, 40, and 50mm diameters
- Meets requirements of BS 5255
- 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



ClearBore 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 5255
- Available in White



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 and 50mm diameters
- Meets requirements of BS 3943:1979
- Available in White



Overflow

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



OsmaDrain

- ▲ PVC-U gravity drainage system for use in building drainage applications
- ▲ Extensive range of fittings including junctions, bottle gullies and inspection chambers
- ▲ Suitable for foul and surface water drainage
- ▲ Available in 82mm, 110mm and 160mm diameters
- ▲ Holds BBA certificate number 87/1835
- ▲ Available in Golden Brown



UltraRib

- ▲ PVC-U gravity sewer system suitable for adoptable and non-adoptable sewer 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
- ▲ 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 1000mm² 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



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 6 diameters from 60mm to 200mm
- ▲ Complies with BS4962 and carries the BSI Kitemark



Channel Drainage

- ▲ 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



Water Management Systems

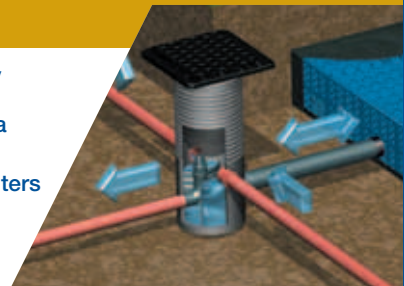
AquaCell®

- ▲ For stormwater storage or soakaway applications
- ▲ Each unit is modular (1.0m x 0.5m x 0.4m) with 190 litre capacity, 95% void and weighs 9Kg
- ▲ Can be clipped together in single layers and pegged together in multiple layers
- ▲ Fully BBA approved and can meet with the Technical Requirements of the NHBC
- ▲ Significantly reduced risk of flooding



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 licence (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)



Ducting Systems

Ducting

- ▲ 3 types of ducting, colour coded to suit the application:
 - Black - general purpose/lv power
 - Purple - motorway communications (street lighting in Scotland)
 - Orange - street lighting/traffic signalling
- ▲ All pipes (6m and 50m) are twin wall construction, which provides a lightweight system with high impact strength
- ▲ Pipe lengths are supplied complete with a pipe coupler, all coils (63mm and 110mm) are supplied complete with a drawstring
- ▲ Pipe products are 450N stiffness and Kitemarked to BS EN 50086.2.4



OsmaGold

OsmaGold

- An engineered, flexible barrier pipe system, manufactured in polybutylene, which conforms to the highest specifications
- Includes full range of fittings including bends, tees and connectors
- Flexible, lightweight, strong and resilient
- Manufactured from polybutylene
- 50-year service life at continuous combined stress of 3 bar pressure at 92°C
- Straightforward to install, has no scrap value
- Pipe available in 10mm, 15mm, 22mm and 28mm nominal diameters
- Suitable for domestic hot and cold water and central heating applications
- Push-fit jointing technique
- Unique M-ring seal ensures integrity of the joint, whilst the grab ring provides a secure mechanical connection
- Awarded Kitemark certification (Licence No. KM51813)
- Confirms compliance to Class S of BS 7291



Osma Underfloor Heating

Overview

- The UK's most advanced UFH technology
- Developed to suit all methods of UK building construction
- Offers all round comfortable warmth, unhindered room layout, improved energy efficiency and a healthier environment.
- Suitable for both concrete based floors and timber floors
- Innovative cost-efficient solutions for residential, commercial and public buildings
- Enables successful and accurate design / installation with greater speed
- Installation quality and performance not dependent on installer skill



Benefits of UFH

For the Installer

- No previous UFH experience needed
- Single sourcing of materials
- Assured heat outputs and performance
- Faster, easier installation

For the Householder / Occupier

- More wall space available
- Greater comfort and safety: even warmth, no hot surfaces
- Lower running costs: minimal maintenance
- Separate room controls
- More control than conventional radiator systems
- Healthier environment with less dust

For the Developer

- Shorter project duration
- Consistent, repeatable performance for identical installations
- Added value to a property

For the Interior Designer

- Unhindered interior layout
- No radiators to decorate or conceal
- Maximum usable wall space

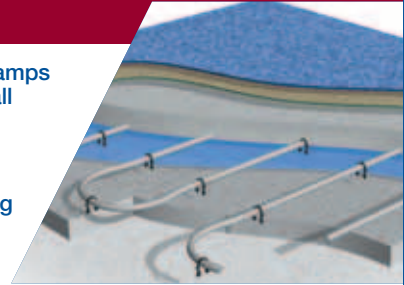
OSMA UFH systems available through Merchants

- Plumbed systems available for all types of floor construction
 - Sand/cement and liquid screeds
 - Timber battens and Timber joists
 - Fully floating Timber floors
- Electric system available for Screeded floors



Screeded Floors: Basic System

- ▲ For plumbed UFH: suitable for 65-70mm sand/cement screeded floors
- ▲ Allows independent choice of insulation panels to suit the thermal and acoustic properties and performance required
- ▲ Suitable for any insulation type/thickness
- ▲ Lowest possible purchase cost
- ▲ Use with Curved Pipe Supports and Pipe Clamps to achieve neat transition between floor and wall
- ▲ Ideal for DIY applications
- ▲ Suits irregularly shaped floor areas
- ▲ Extreme versatility of pipe layout and spacing
- ▲ Excellent thermal performance



Screeded Floors: System Plates

- ▲ For plumbed UFH: suitable for 65-70mm sand/cement screeded floors
- ▲ Vacuum-formed sheets of tough plastic incorporate a grid of clips specially designed to hold the heating pipe securely.
- ▲ Allows independent choice of insulation panels to suit the thermal and acoustic properties and performance
- ▲ Suitable for any insulation type/thickness
- ▲ System Plates lock together to prevent screed ingress beneath the Plates
- ▲ Integral clips securely grip pipe: Layout cannot be dislodged by foot traffic
- ▲ Can be trimmed to size using a Stanley knife
- ▲ Extremely versatile system
- ▲ Flexible layout - can be configured to meet specific project requirements
- ▲ Easy, fast installation
- ▲ Uses standard plumbing techniques
- ▲ Excellent thermal performance



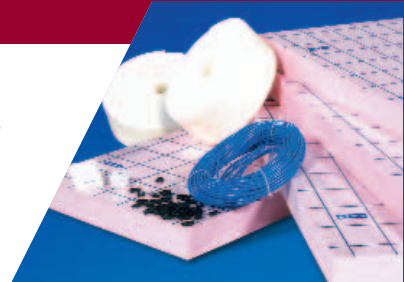
Screeded Floors: 10m² Plumbed Pack

- ▲ For plumbed UFH: suitable for 65-70mm sand/cement screeded floors
- ▲ Single pack comprising all components for up to 10m² of active heated floor area
- ▲ Inclusive pack is particularly suitable for
 - ▲ First time users
 - ▲ Installation in small rooms
- ▲ Insulation and pipe can be arranged to suit different layouts/room shapes
- ▲ Clips hold pipe securely
- ▲ 75mm insulation with pre-printed grid helps achieve 0.25 elemental floor U-value
- ▲ Versatile – accommodates almost any room shape
- ▲ Easy, fast installation



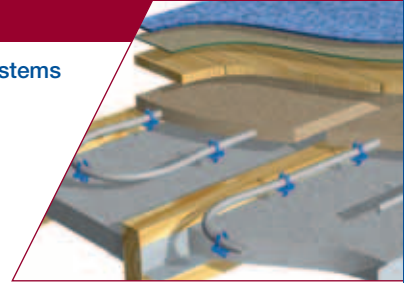
Screeded Floors: 10m² Electric Pack

- ▲ For electric UFH: suitable for 65-70mm sand/cement screeded floors
- ▲ Single pack comprising all components for up to 10m² of active heated floor area
- ▲ For use when connection to a hot water system is not achievable/desirable
- ▲ Requires connection to house wiring (may need qualified electrician)
- ▲ Versatile system: accommodates almost any room shape
- ▲ Easy, fast installation



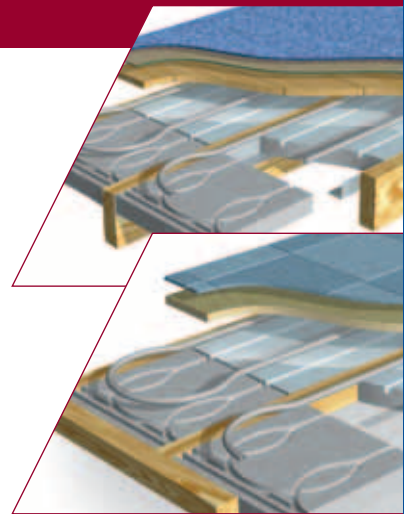
Timber Floors: Basic System

- Components for a traditional low-cost, basic UFH system.
- For plumbed UFH - Suitable for timber floor constructions
- Allows independent choice of insulation type/thickness and total layout flexibility
- Staples or Screw Clips securely grip pipe
- Longer installation time than other OSMA systems
- Relies on installer to achieve consistent pipe spacing
- Very versatile system
- Uses standard plumbing techniques
- Good thermal performance: no reliance on air to transfer heat



Timber Floors: Batten/Joist Systems

- For plumbed UFH installed beneath a timber or chipboard floor deck supported by battens / joists
- Pipe integrated within the insulation thickness- full contact with overlaid floor deck
- No reliance on heating air beneath the floor deck
- No pugging or wet trades required: no delay to laying of floor deck
- Creates floor structure with low thermal mass - fast response to changes in heating demand
- Panels can be neatly trimmed to required length
- Very fast, easy construction - no setting out/marketing out of insulation panels required
- Easy planning and installation
- No separate diffuser plates to source and fit
- Floor deck can be glued direct to top of battens/joists (to suit Building Regulations Part E)
- Factory-fitted polyethylene film prevents ticking of floor (caused by differential thermal expansion)
- Enables better acoustic performance
- Even, consistent heat output



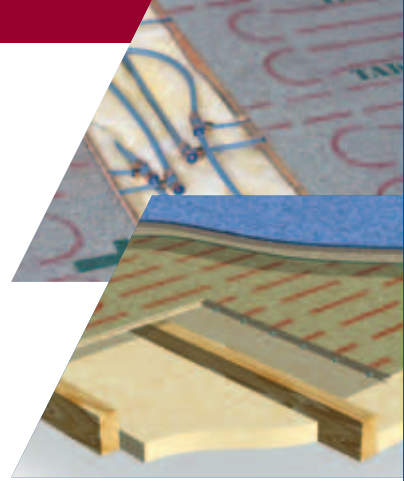
Timber Floors: Fully Floating Floor System

- For plumbed UFH installed beneath a timber floating floor deck
- Extra insulation may be required within the supporting understructure to meet Building Regulations Part L
- Pipe integrated within the insulation thickness - enables full contact with overlaid floor deck
- Creates floor structure with low thermal mass - fast response to changes in heating demand
- Panels can be neatly trimmed to required length
- Easy planning and installation: similar timescale for installing unheated floating floor
- No marking out of panels required - pre-set pipe spacing
- No separate diffuser plates to source and fit
- Factory-fitted polyethylene film prevents ticking of floor (caused by differential thermal expansion)
- Enables better acoustic performance
- Even, consistent heat output
- Pipe at 200mm centres ensures excellent thermal performance



Timber Floors: Chipboard Modules

- ▲ For plumbed UFH over battens or joists at up to 450mm centres
- ▲ Patented panels of Puhos moisture resistant, flooring grade chipboard.
- ▲ Tongued and grooved with integral 10mm heating pipe.
- ▲ The pipe is factory-fitted into channels cut into the underside of the panels.
- ▲ Useful both for new floors, or for floor refurbishment
- ▲ Can be used to overlay existing planked floor
- ▲ Only 25-27mm height gain over 3-5mm foam – for improved acoustics
- ▲ Enables floor and heating system to be installed at same time – with no increase in floor height
- ▲ Resulting floor deck meets Building Regulations Part 'E' requirement for floor deck mass greater than 15kg/m²
- ▲ Extremely versatile system
- ▲ Fast, easy installation
- ▲ Uses standard plumbing and construction techniques
- ▲ Exceptional heating performance



Control Units: Plumbed Systems

- ▲ The OSMA range of controls utilises the two principal means of controlling a UFH system to achieve the required floor temperatures
- ▲ By controlling the water temperature entering the floor circuit (mixing control)
 - ▲ This indirectly controls the maximum achievable floor surface temperature
 - ▲ A maximum limit can be set
- ▲ By directly monitoring/measuring floor surface temperature using a sensor [Injection Control]
 - ▲ Controls shut off supply of further heating energy when floor surface temperature reaches set level
 - ▲ Further energy allowed into circuit when floor has partially cooled



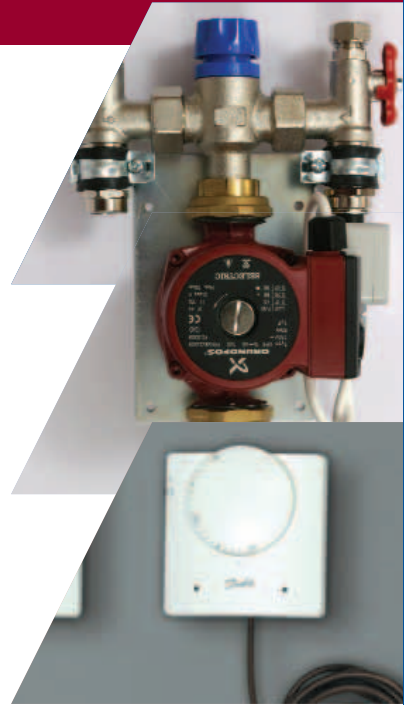
Control Units: Plumbed Systems – Single Room/Zone Controls

Electronic Controls

- ▲ Can be used with any type of UFH
- ▲ Can be used with any type of pipe pattern/floor finish
- ▲ Cost effective: may be used to control any small UFH sub-system
 - ▲ Up to 2 pipe circuits with similar length up to 100m each
 - ▲ With up to 20m² total active heating area
- ▲ Suitable for any floor type or finish
- ▲ Completely safe: no risk of the floor overheating (unlike Return Temperature Limiting [RTL] valve systems)
- ▲ Thermo-hydraulic actuator: no electric motor or gearbox maintenance needs
- ▲ UFH supply water is taken directly from the primary: ensures fast warm up

Water Mixing Control Unit

- ▲ The Water Mixing Control Unit is an alternative to electronic controls when the preferred strategy is to use Mixing Control.
- ▲ Cost effective and safe
- ▲ Optimum use of primary flow during warm-up
- ▲ May be used to control any small UFH sub-system
 - ▲ Up to 2 pipe circuits with similar length up to 100m each
 - ▲ With up to 20m² total active heating area
- ▲ Suitable for any floor type or finish



Control Units: Plumbed Systems – Multiple Room/Zone Controls

Complete Pre-assembled Controls

- Provides all components for multi-zone control in a single assembly to minimise installation time.
- Pre-assembled for fast, easy installation
- Saves costs and time on site
- May be used with any combination of plumbed OSMA UFH systems
- Suitable for any floor type or finish
- Manifold extension packs available

Separate Manifolds

- Often the only part of a UFH system that remains permanently on view.
- Manifolds can be used on their own or with isolation valves
- Serves up to 8 rooms or zones
- Extremely versatile: may be configured to exact project requirements
- Suitable for all floor constructions and floor finishes
- May be used with any combination of plumbed OSMA UFH systems
- Manifolds are stainless steel: will not tarnish or deteriorate like brass



Accessories

Curved Pipe Supports

- Rigid black plastic supports used where pipe must transfer between floor and wall
- Support the pipe to ensure pipe bends are consistent and neat.

Pipe Clamps

- Individual snap over clamps hold pipe close to the wall below the manifold at 27.5mm spacing, - matches the manifold branch.
- Individual clamps clip together to make a block capable of taking multiple pipes.

Multi-height Edge Insulation Strip

- 25 metre rolls of 150 x 10mm insulation
- Perimeter insulation for screeded floors - prevents direct heat loss into wall
- Sufficient width for various insulation/ screed combined thicknesses
- Clear film gaiter at lower edge prevents screed ingress into perimeter joints
- Top edge pre-cut in 10mm bands - enables easy stripping of excess after screeding

Circular Saw Blades

- For cutting Foiled Polystyrene panels
- Specially designed to cut aluminium foil and polystyrene
- Can be used with all makes of circular saw

Joint Tape

- For taping joints between insulation panels to prevent screed ingress between joints
- Specially formulated to adhere to the Polyethylene film surface of insulation panels
- Other tapes can become unstuck due to release agent on the Polyethylene film

Carbon-coated Plain Insulation

- 1200 x 600 x 50mm expanded polystyrene panels with carbon coating [CEPS]
- May be used with System Plates system or Floating Floor panels
- 20% better thermal resistance than standard white 50mm expanded polystyrene

Screw Clips

- Provides a strong fix for Heating Pipe
- Screw Clips provide a more secure fix than Staples
- Suitable for most forms of insulation - holds pipe 4mm above insulation surface
- Allows screed or pug to wrap around all the pipe, improving thermal transfer

Screw Clip Handle

- Assists screwing Clip into panel without needing to bend down



Accessories continued

Staples

- Barbed to hook into top of plain insulation and fix Heating Pipe or Cable in position
- Grips most effectively when used on extruded insulation, or polyurethane foam with a foil/paper facing
- Low cost fixing option – but care needed not to dislodge Staples before or during screeding

Long handled Staple Gun

- Enables stapling without needing to bend down

Plastic 'L' Brackets

- 50 x 50 x 1200mm single items
- Supports OSMA Joist system Insulation Panels in joisted floor applications so panel surface is flush with top edge of joists
- Fixed to joists using galvanised nails



References

Reference should be made to:

- Building Regulations 2002 (England and Wales): Approved Document 'L' (Thermal)
- Building Regulations 2003 (England and Wales): Approved Document 'E' Acoustic)

- Osma Underfloor Heating is a member of the Underfloor Heating Manufacturers Association

UHMA

Technical Advice and Assistance

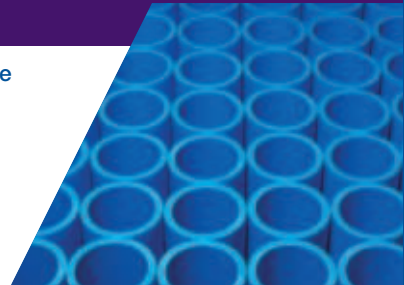
- OSMA Underfloor Heating systems are backed by a comprehensive technical advisory service.
- This is available to provide expert assistance at every stage of a project, from planning and product selection to installation and maintenance.



PE Systems for Potable Water

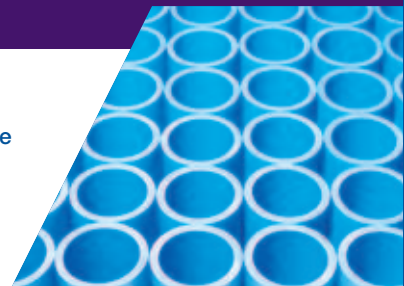
PE100: SupaSure

- ▲ 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
- ▲ Range of straight lengths and coil sizes available
- ▲ Electrofusion and Fabricated fittings available
- ▲ Optimal service for long service life
- ▲ Resistant to corrosion in naturally occurring ground conditions
- ▲ Easy installation



PE80: Sure

- ▲ Light blue pipe manufactured from MDPE (Medium Density Polyethylene)
- ▲ Available in two pressure ratings:
 - 12.5 Bar SDR 9 pipe – sizes 20mm
 - SDR 11 pipe – sizes 25-315mm
 - 8 Bar SDR 17 pipe – sizes 90-315mm
- ▲ Range of straight lengths and coil sizes available
- ▲ Electrofusion and Fabricated fittings available
- ▲ Optimal service for long service life
- ▲ 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 20 and 32mm
- ▲ Provides reliable, cost effective solutions for delivering drinking water through contaminated environments
- ▲ Blue pipe marked with distinctive brown stripes for easy identification
- ▲ Flexible, lightweight pipe, easy to handle and install
- ▲ No pipe preparation or wrapping of joints needed with fittings
- ▲ Core pipe Kitemarked to BS6572
- ▲ Fittings WRc, DVGW and KIWA approved
- ▲ System approved under Regulation 31 (formerly Regulation 25)



PVC Systems for Potable Water

PVC-O: Apollo

- ▲ Blue pressure pipe manufactured from molecular-oriented PVC
- ▲ Pressure rating:
 - 12.5 Bar – sizes 90-315mm, 6m lengths
- ▲ Lighter and substantially tougher than PVC-U
- ▲ Provides extra ductility with high safety factor
- ▲ Designed for use in open-cut narrow trenching
- ▲ Integral push-fit sockets for above ground jointing are quick and easy to install
- ▲ Fully approved for potable drinking water use. Kitemarked to WIS 4-31-06
- ▲ Meets requirements of BS6520, Water Quality Testing



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 and Fabricated 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 pipe manufactured from MDPE (Medium Density Polyethylene)
- Available in two pressure ratings:
12.5 Bar SDR 9 pipe – sizes 20mm
SDR 11 pipe – sizes 25-315mm
- Electrofusion and Fabricated 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



PVC Systems for Non-Potable Water

PVC-O: Apollo

- Black pressure pipe manufactured from molecular-oriented PVC
- Pressure rating:
12.5 Bar 110-315mm, 6m lengths
- For buried non-potable applications below ground - grey water, irrigation and sewer pumping mains
- Lighter and substantially tougher than PVC-U
- Provides extra ductility with high safety factor
- Designed for use in open-cut narrow trenching
- Integral push-fit sockets for above ground jointing are quick and easy to install



PE Systems for Gas

PE100: SupaGas

- Orange pipe manufactured from HPPE (High Performance Polyethylene)
- Available in two pressure ratings:
7 Bar SDR 11 pipe – sizes 50-500mm
4 Bar SDR 17.6 pipe – sizes 90-500mm
- Range of straight lengths and coil sizes available
- Electrofusion fittings available
- Provide reliable pipelines for both service and mains distribution of Natural Gas and LPG



PE80: Gas

- Yellow pipe manufactured from MDPE (Medium Density Polyethylene)
- Available in two pressure ratings:
5.5 Bar SDR 9 pipe – sizes 20mm
SDR 11 pipe – sizes 25-500mm
3 Bar SDR 17.6 pipe – sizes 90-500mm
- Range of straight lengths and coil sizes available
- Electrofusion and galvanised spigot stub flange fittings available
- Provide reliable pipelines for both service and mains distribution of Natural Gas and LPG

