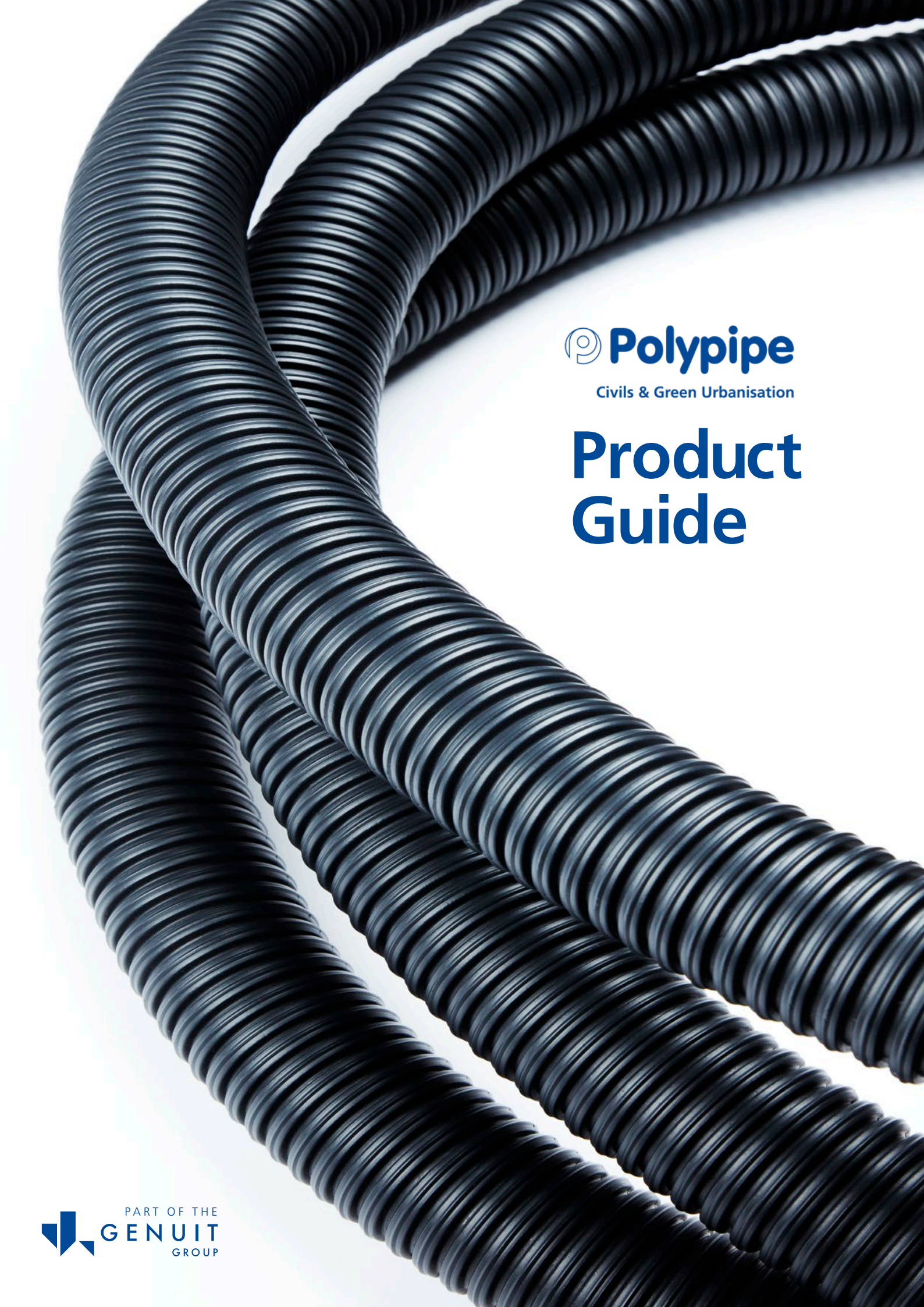


Polypipe

Civils & Green Urbanisation

Product Guide

PART OF THE GENUIT GROUP

CONTENTS

How to use this brochure

This product guide has been designed to provide you with quick, easy access to information on all of our Polypipe products and systems. A clear colour-coded navigation divides the guide into sections, each with its own introduction, followed by sub sections that break down products by application and function.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

ABOUT US

A part of the Genuit Group, Polypipe Civils & Green Urbanisation is a market-leading manufacturer of engineered water management and network infrastructure solutions, supplying a wide range of products across the construction industry.

Our extensive range of sustainable, award-winning products includes drainage solutions, sewer systems, cable protection and access, and innovative water management solutions suitable for a number of applications from roof to river.

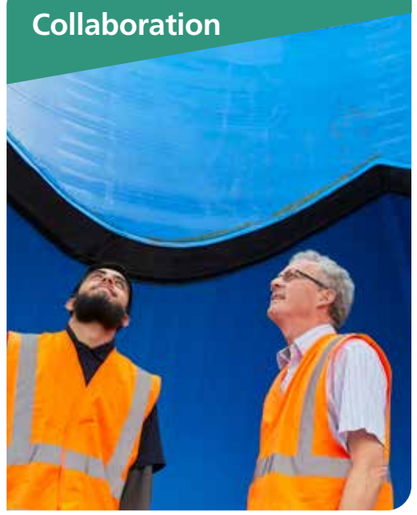
As a trusted supplier to the construction industry for over 40 years, we pride ourselves on our dependable, quality products and service experience. Our expert technical and customer support teams provide support and guidance throughout your product timeline from initial specification through to completion, no matter the size of the project or application, from complete drainage and sewer systems to stormwater alleviation solutions and multifunctional, innovative green roofs.

Our collaborative approach ensures the best outcome for the project by providing industry-leading knowledge and advice on best practice, legislation and standards, whilst delivering innovative and pragmatic solutions.

Excellence

Integrity

Collaboration



CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

BUILDING FOR A SUSTAINABLE FUTURE

Providing trusted solutions for the environmental challenges facing our infrastructure, buildings, and communities.

Our wide range of products is designed and manufactured to encourage a safer and more sustainable future, mitigating the effects of climate change and the impact of urbanisation and population growth. Whether that be through increasing the recycled content in products from our own polymer processing plant or using a new generation of technologies that integrate green assets into the next generation of SuDS, we can help to create greener urban landscapes which promote biodiversity and ecological regeneration, deliver multifunctional environmental, health and wellbeing benefits, and support a net zero future.

We believe that supporting our customers through their sustainability journey is equally important as our own, so please contact a member of our team to learn more about how our range of tools and documents such as Environmental Product Declarations (EPDs) and recycled content calculators can support you in making the best choices for a sustainable future.

Check out our video

WASH & SQUASH

Our Horncastle facility is home to our Polymer Processing Plant, a 15,000 sq ft recycling center that recycles post-consumer HDPE waste such as milk bottles, into our products. Through our Wash & Squash campaign, we also work with our colleagues across Genuit Group and with local businesses and schools to collect their milk bottles and educate them on the importance of a circular economy.

30,263 TONNES

In 2022 Polypipe used 30,263 tonnes of recycled plastic

16,000 TONNES

Over 16,000 tonnes in our own polymer processing plant

81.9%

81.9% of the products we manufactured in 2022 were made from recycled materials

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

PERMAVOID SOURCE CONTROL SYSTEMS

PERMAVOID SOURCE CONTROL SYSTEMS

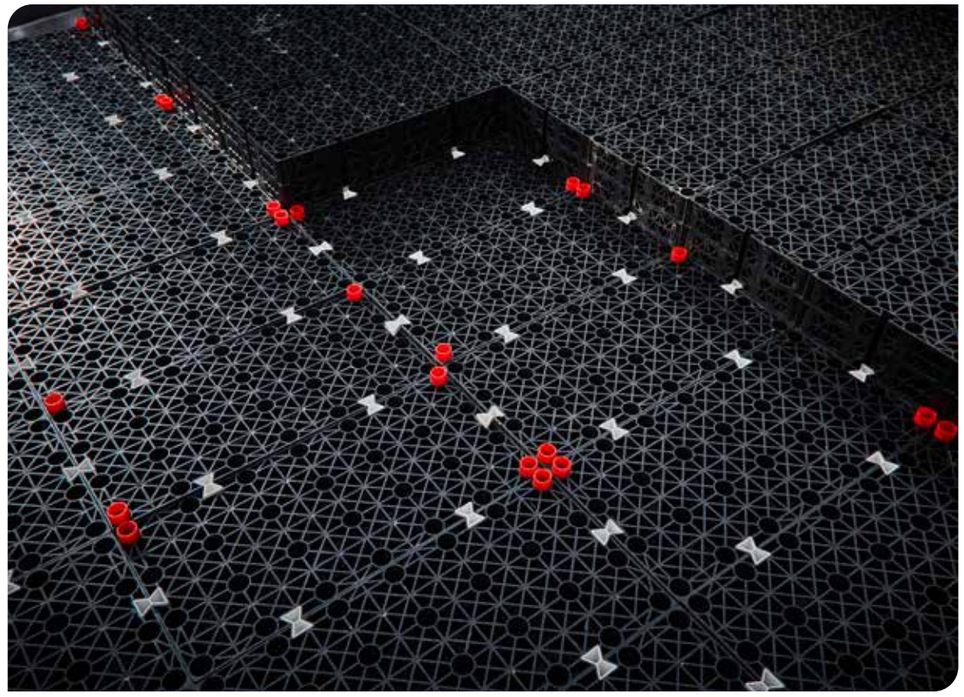
The Permavoid system enables designers, planners and other key stakeholders to realise the full potential of surfaces, from roof to road through effective source control.

By using this unique system, we can transform the way we manage water, moving from a linear approach to a fully circular method, making stormwater and rainwater a resource, not an inconvenience. It's an ideal solution, building resilience for both periods of drought and in the event of storms. Managing stormwater at source, the Permavoid system provides surface water treatment, passive irrigation, attenuation or infiltration. Its modular cells combine to form a geocellular structure, often within the sub-base, receiving rainwater collected from roofs, permeable pavements, surface drains or Permatreat linear treatment devices.

Permavoid's geocellular design also provides high compressive and tensile strengths, accommodating a wide range of loadings at shallow depths. This allows it to be used in a variety of applications, including roofs, podium decks, basements, sports pitches, residential and industrial estates, car parks and HGV parks. It can notably be used in transport infrastructure schemes for rain gardens and urban tree pit integration. The shallow nature of the system enables us to provide green infrastructure and SuDS features in the most complex of hard landscape environments, avoiding the need for deeper excavation and making it an ideal solution for sites with high water tables, hard-rock areas, contaminated soils and shallow outfalls. This reduced requirement for excavation avoids the need to disrupt services, utilities and other below ground infrastructure which would otherwise be a barrier to the implementation of green and blue infrastructure.

Looking to green infrastructure, Permavoid cells allow plants to make use of water when required through passive irrigation and can be connected to smart systems, so that when storms are forecast, the system can move water from the cells to other green infrastructure components or discharge into local sewers networks.

Our passive irrigation technology, which utilises capillary cones and specialist wicking geotextile, controls the volume of water and nutrition required to support and enable green infrastructure. By using additional products within the Permavoid system, such as Permatreat, Permaceptor and Permavoid Biomat, contaminated surface water run-off containing oils and pathogens can be filtered and treated, improving water quality before infiltrating into the ground or discharging into nearby watercourses or sewers.



Permavoid System Key Benefits

- Designed and tested for retention, attenuation or infiltration at shallower depths
- Provides effective source control
- Can be installed above a high water table
- Allows water to be installed in multiple catchments
- Ideal for brownfield or contaminated sites
- Provides treatment to remove silt and hydrocarbon deposits
- Removes the requirement for pumping stations
- Oil interception at source – no need for petrol interceptors
- Can be used in combination with the full range of Polystorm geocellular solutions for deeper applications
- Interlocking raft for rigidity and a high compressive and tensile strength under load
- Suitable for use beneath porous and non-porous surfaces
- Reduction in excavation depth and cost
- No need for trench supports or plant to deliver and remove trench support panels
- Can be used in conjunction with soft SuDS to help 'make space for water'

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

PERMAVOID SYSTEM COMPONENTS

Permavoid 85 & 150

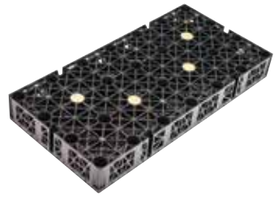
Permavoid is a geocellular interlocking system designed for shallow water storage or infiltration, to be used in place of traditional aggregate sub-base, or to provide source control above ground at both roof and podium level.

PERMAVOID MODULAR CELLS 85 & 150

Description	Dimensions mm	Code
Permavoid 85	708 x 354 x 85	PVPP85
Permavoid 150	708 x 354 x 150	PVPP150

Permavoid 85 Irrigation

Permavoid 85 Irrigation cells are standard Permavoid 85 cells containing an integral wicking media and is designed to provide attenuation and irrigation for shallow non-loaded applications. The water stored is carried up through the cell via absorbent capillary cones using capillary action in conjunction with Permavoid Permatex Capillary geotextile.



PERMAVOID 85 IRRIGATION

Description	Dimensions mm	Code
Permavoid 85 Irrigation cell (2 cones per cell)	708 x 354 x 85	PVPP85CC2
Permavoid 85 Irrigation cell (4 cones per cell)	708 x 354 x 85	PVPP85CC4

Permavoid Medium Duty with Biomat

Permavoid Medium Duty with Biomat is designed for use with Polystorm attenuation and infiltration systems. It contains the same floating mat as the Permavoid Biomat cell to capture and treat oils that may be present within surface water.

PERMAVOID MEDIUM DUTY WITH BIOMAT

Description	Dimensions mm	Code
Permavoid Medium Duty with Biomat	500 x 400 x 1000	PSM1BM

Note: Please use Polystorm shear connectors and clips to join cells together. Can be used in conjunction with the Polystorm system.

Permavoid Biomat

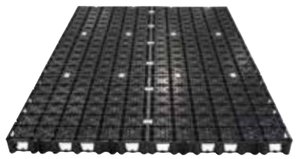
Permavoid Biomat is a geocellular unit containing a low density, oil treating, geosynthetic floating mat (biomat). The biomat floats on water and is designed to intercept and treat any potential residual emulsified oils that may be present within the surface water.

PERMAVOID BIOMAT

Description	Dimensions mm	Code
Permavoid Biomat	708 x 354 x 150	PV150BM

Permavoid² 85

Permavoid² 85 comprises of six pre-connected units and is designed to provide attenuation for shallow non-loaded applications. It is ideal for roof and podium deck applications, alongside hard landscaping.



PERMAVOID² 85

Description	Dimensions mm	Code
Permavoid² 85	2136 x 1424 x 85	PVPP85RX6

Permavoid² 85 Irrigation

Permavoid² 85 Irrigation comprises six pre-connected units with an integral wicking media and is designed to provide attenuation and irrigation for shallow non-loaded applications. The water stored is carried up through the cell via absorbent capillary cones using capillary action in conjunction with Permavoid Permatex Capillary geotextile.

PERMAVOID² 85 IRRIGATION

Description	Dimensions mm	Code
Permavoid² 85 irrigation	2136 x 1424 x 85	PVPP85RCX6

Permafoam 85 & 150

Permafoam is a Permavoid 85 or 150 unit containing an open-celled phenolic foam that is highly absorbent and water retentive. Mainly used in check dam constructions as a check gate, the 150 unit has the capacity to store up to 31 litres of water and the 85 unit up to 17.5 litres of water.

PERMAFOAM MODULAR CELLS 85 & 150

Description	Dimensions mm	Code
Permafoam 85	708 x 354 x 85	PVPP85PF
Permafoam 150	708 x 354 x 150	PVPP150PF

Permaceptor

Permaceptor functions as a combined run-off collection, silt/oil interceptor and treatment system. It is designed to be used with conventional road/yard gullies. The outlet discharges via a weir and baffle component that separates oils and prevents the effluent and silt from progressing into the rest of the drainage system.

PERMACEPTOR INTERCEPTOR TREATMENT SYSTEM

Description	Dimensions mm	Code
Permaceptor GullyCeptor (not including cover or frame)	1062 x 708 x 300	PV04002

PERMAVOID SYSTEM COMPONENTS

Permatreat

Permatreat is a linear treatment device that can provide source control and pollution treatment in a wide variety of locations and applications. Used in conjunction with Permavoid Biomat, it functions as a combined run-off collection, silt and oil interceptor and treatment system.

There are three versions available:
Permatreat-S, Permatreat-EA and Permatreat-HD.

Permatreat-S and **Permatreat-EA** would typically be installed in car parks where HGV loading is restricted and the requirement for C250 loading is sufficient.

Permatreat-HD would be typically installed in lorry parks and industrial/residential areas where a D400 higher loading capacity is required.

PERMATREAT		
Description	**Dimensions mm**	**Code**
Permatreat-S with standard bolted grating*	1000 x 139 x 201	PVTS
Permatreat-EA for easy access*	1000 x 139 x 201	PVTEA
Permatreat-HD with bolted grating for heavy duty loading*	1000 x 150 x 210	PVTHD
Permatreat universal connector	N/A	PV06305/1
Permatreat end cap	N/A	PV03005

*Comes with x1 Permatreat Universal Connector per device.

Permatreat-S

Permatreat-EA

Permatreat-HD

Universal Connector

Permavoid Rainwater Diffuser Unit

The Permavoid Rainwater Diffuser Unit consists of a Permavoid 150 cell encapsulated in a 2mm mesh fabric. Run-off from building roofs is collected into downpipes and flows into a back inlet gully incorporating an internal filter or a catchpit. The filtered stormwater is discharged into the modified granular sub-base layer via the Permavoid Rainwater Diffuser Unit.

PERMAVOID RAINWATER DIFFUSER UNIT*		
Description	**Dimensions mm**	**Code**
Permavoid Rainwater Diffuser Unit x1 with a 110mm socket wrapped in a 2mm mesh	708 x 354 x 150	PV09011

*Other sizes are available. Please see our Permavoid Technical Manual for further information.

Catchpits and Orifice Plate Flow Control Chambers

Catchpits help reduce the volume of silt passing through the Permavoid system and are fitted with removable filters to trap larger debris. Orifice Plate Flow Control Chambers help achieve limitations to the discharge rate and are fitted with removable filters to protect the orifice.

CATCHPITS AND ORIFICE PLATE FLOW CONTROL CHAMBERS		
Description	**Dimensions mm**	**Code**
315mm Rainwater Downpipe Filter Chamber with litter guard	Maximum 0.5m deep, 110mm inlet, 160mm outlet	PV05007
500mm Silt Pit Chamber	Maximum 1m deep, 300mm deep sump, 4x Spigot Connectors up to 160mm	PV05032
500mm Orifice Plate Flow Controller*	Maximum 1m deep, 300mm deep sump, 4x Spigot Connectors up to 160mm	PV05033
500mm Orifice Plate Flow Controller*	Maximum 1.5m deep, 300mm deep sump, 4x Spigot Connectors up to 160mm	PV05035

* Orifice diameter to be specified to suit individual project requirements.

Permaties & Shear Connectors

Permaties are a patented tapered tie that interlocks the Permavoid cells into a secure and consistent raft. When two or more layers of Permavoid are used to form a structure, Shear Connectors are inserted between the layers to create stability and shear resistance to prevent lateral movement.

Permaties

Shear Connector

PERMATIES & SHEAR CONNECTORS	
Description	**Code**
Shear Connector	PVSC
Permaties	PVCLIP

Permavoid Saddle Connector

Saddle connections are used within Permavoid structures to facilitate the connection of 110mm or 160mm pipe.

SADDLE CONNECTIONS		
Description	**Dimensions mm**	**Code**
Saddle Connection 110/150	110 Spigot	PV06501
Saddle Connection 110/300	110 Spigot	PV06502
Saddle Connection 160/150	160 Spigot	PV06503
Saddle Connection 160/300	160 Spigot	PV06504

Preformed Spigot Connector (with Weldable Membrane)

When forming a level invert pipe connection to a Permavoid attenuation structure, it is necessary to use the Preformed Spigot Connector with Weldable Membrane in association with the Permavoid Geomembrane. A welded joint can be made to ensure the tank is leak tight.

PREFORMED SPIGOT CONNECTORS WITH WELDABLE MEMBRANE	
Description	**Code**
110mm Preformed Spigot Tank Adapter	PV06100
160mm Preformed Spigot Tank Adapter	PV06101

Flat Tank Spigot Connectors (with weldable membrane)

When forming a pipe connection to a Permavoid attenuation structure, it is necessary to use the Preformed Spigot Connector with Weldable Membrane in association with the Permavoid Geomembrane. A welded joint can be made to ensure the tank is leak tight.

FLAT TANK SPIGOT CONNECTIONS	
Description	**Code**
110mm Flat Rigid Spigot Tank Adapter	PV06200
160mm Flat Rigid Spigot Tank Adapter	PV06201

PERMAVOID SYSTEM COMPONENTS

Permavoid Geomembrane

A heavy duty, puncture resistant, 1mm thick propylene/ethylene copolymer membrane used to create water-tight tanks.

PERMAVOID GEOMEMBRANES		
Description	**Dimensions m**	**Code**
Geomembrane	Roll 1 x 100	PV13001
Geomembrane	Roll 2 x 100	PV13007
Geomembrane	Roll 3 x 100	PV13008
Geomembrane	Roll 4 x 100	PV13009
Geomembrane	Roll 6 x 10	PV13010
Double Sided Tape	0.1 x 15	PV13011
Single Sided Tape	0.075 x 50	PV1301

Permavoid Geotextiles

Polypipe has a range of geotextiles to suite all Permavoid applications:

Permatex 300 is designed to provide protection of Permavoid Geomembrane in attenuation applications or to be used as an infiltration geotextile for infiltration applications.

Permafilter Geotextile is specifically designed for hydrocarbon pollution treatment. It captures residual hydrocarbons and removes pollutants by biodegradation to enhance the water quality.

Permatex Capillary Geotextile is specially formulated to absorb water to irrigate mineral substrates when used in conjunction with Permavoid irrigation units.

PERMAVOID GEOTEXTILES		
Description	**Dimensions m**	**Code**
Permatex 300	100 x 3	PV23010
Permatex 300	100 x 6	PV23011
Permatex 300	10 x 6	PV23012
Permafilter Geotextile	100 x 2.4	PV23002
Permavoid Capillary Geotextile	100 x 2	PV23009
Permavoid Capillary Geotextile	25 x 2	PV23007

Permavoid Podium Deck Roof Diffuser Chambers

Designed for use in shallow Permavoid podium deck constructions, the Permavoid Podium Deck Roof Diffuser Chambers collect rainwater via an inlet pipe, which filter through the perforated walls and is dispersed into the surrounding Permavoid storage system. They have integral sumps to effectively trap silt.

Permavoid 85mm Podium Deck Roof Diffuser Chamber with 110mm Inlet

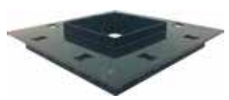
Permavoid 150mm Podium Deck Roof Diffuser Chamber with 110mm Inlet

Permavoid 150mm Podium Deck Roof Diffuser Chamber with 160mm Inlet

PERMAVOID PODIUM DECK ROOF DIFFUSED CHAMBERS			
Description	**Inlet Pipe mm**	**Sump mm**	**Code**
Permavoid 85mm Podium Deck Roof Diffuser Chamber with 110mm inlet	110	10	PVOD01401
Permavoid 150mm Podium Deck Roof Diffuser Chamber with 110mm Inlet	110	50	PVOD01402
Permavoid 150mm Podium Deck Roof Diffuser Chamber with 160mm Inlet	160	50	PVOD01403

Permavoid Podium Deck Roof Access Chambers

Permavoid Podium Deck Roof Access Chambers provide easy access to an existing podium deck roof outlet on Permavoid sub-base replacement installations for routine maintenance. They provide quick and easy connection to surrounding Permavoid cells.



Permavoid 85mm Podium Deck Roof Access Chamber

Permavoid 150mm Podium Deck Roof Access Chamber

Permavoid 300mm Podium Deck Roof Access Chamber

PERMAVOID PODIUM DECK ROOF ACCESS CHAMBERS	
Description	**Code**
Permavoid 85mm Podium Deck Roof Access Chamber	PVOD01301
Permavoid 150mm Podium Deck Roof Access Chamber	PVOD01302
Permavoid 300mm Podium Deck Roof Access Chamber	PVOD01303

PERMAVOID SYSTEM COMPONENTS

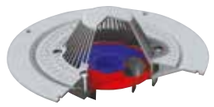
Permavoid 85mm Podium Deck Gully Grate Access Chamber

The Permavoid 85mm Podium Deck Gully Grate Access Chamber allows rainwater to be collected via the grating, filtered through the perforated walls and dispersed into the surrounding Permavoid storage system. The gully has an integral silt basket and is easily accessible for clearing of silt and debris during routine maintenance.

PERMAVOID 85MM PODIUM DECK ROOF GULLY GRATE ACCESS CHAMBER	
Description	**Code**
Permavoid 85mm Podium Deck Roof Gully Grate Access Chamber	PVOD01201

Reduced Flow Rainwater Outlet

Reduced Flow Rainwater Outlets are a range of Polypipe Building Services PVCu rainwater outlets fitted with a variable flow control orifice plate. The range includes flat, domed, vented and inverted roof outlets, which are designed for use with Permavoid rainwater attenuation systems for roofs and podiums.



ArborRaft 85/150

ArborRaft combines tree soil with a geocellular raft system to create growing space for newly planted and existing trees in hard landscapes and in areas that are subject to vehicle loadings. The ArborRaft system spreads the load, ensuring that there is no compaction of the soils around the tree roots, maintaining the perfect environment for the trees to establish and mature. The structural void created by the ArborRaft can be filled with a nutrient rich soil to act as a slow release fertiliser, continually feeding the root structure when combined within a permeable or porous paving construction. ArborRaft can also be used as a 'no dig' tree root protection system for use around existing trees.

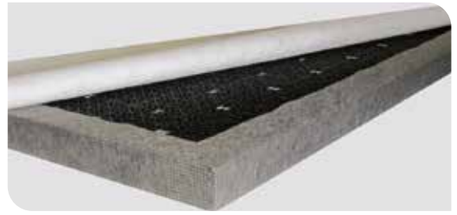
ARBORRAFT 85/150	
Description	**Code**
ArborRaft 85	PVPP85
ArborRaft 150	PVPP150

ArborRaft Geotextiles

ArborRaft TRC 30 is a geogrid composite which provides reinforcement, separation and filtration. It is used to stabilise soft, low bearing capacity soils and for use below the ArborRaft geocellular layer in paved and unpaved loads and parking areas.

ArborTex 200 is designed to provide protection, separation and filtration.

ArborTex 300 is designed to be used as a protection and separation layer above and around the ArborRaft system.



ARBORRAFT GEOTEXTILES		
Description	**Roll Dimensions m**	**Code**
ArborRaft TRC 30	100 x 5	PVTEXTILE002
ArborRaft TRC 30	10 x 5	PVTEXTILE003
ArborTex 200	100 x 5.25	PVTEX200525
ArborTex 300	25 x 2.5	PTEX30062
ArborTex 300	100 x 2.62	PTEX300262
ArborTex 300	100 x 6	PV23011
ArborTex 300	100 x 3	PV23010
ArborTex 300	10 x 6	PV23012

Plupave

Product code: PP50PPB

Plupave plastic permeable paving is a combined containment and drainage unit, allowing efficient stabilisation to be applied to permeable turf or gravel surfaces. The introduction of Plupave's reinforcing structure protects permeable surfaces, which in turn removes the need for the installation of gullies, channels and pipework previously required with traditional impermeable methods of paving.

PLUPAVE PLASTIC PERMEABLE PAVING	
Length	500mm
Width	500mm
Height	50mm
Colour	Black
Material	Polypropylene
Chemical resistance	Good*
Bacterial resistance	Good*
UV resistance	Good*
Weight per unit	1.1kg
Compressive strength	93 t/m²** > 200 t/m²***

* Minor effect; slight corrosion or discolouration

** Standalone unfactored compressive strength without fill

*** Unfactored compressive strength with gravel fill (in excess of)

PERMAVOID SYSTEM COMPONENTS

Aquadrain 25 & 50

Aquadrain 25 and 50 are a modular, geocellular interlocking system that have been specifically engineered as an extensive green roof drainage board. The systems robust structure, void ratio and loading capabilities create the perfect solution to capture, retain and convey rainwater within an urban environment.

The systems are designed to support and promote the growth of specific, drought tolerant vegetation that requires low maintenance (1-3 visits per year):

- Sedums – a type of succulent plant, some native species
- Wildflowers which thrive on low nutrient availability
- Small herbs, bulbs and alpines which share the above characteristics
- Grasses – limited to a selection of non-aggressive, slow-growing species

AQUADRAIN 25 & 50

Element	Value	
Physical properties	**Aquadrain 25**	**Aquadrain 50**
Code	PVAD25	PVAD50
Weight per unit	0.55kg	1.1kg
Units per square metre	4	4
Length	500mm	500mm
Width	500mm	500mm
Depth	25mm	50mm
Sectional void ratio	84%	95%
Compressive straight	51t/m²	93t/m²
Flow rate per unit	120l/min	155.4l/min
Saturated weight	21.5Kg/m²	54Kg/m²

TreeBox HP

The TreeBox HP system is one of the most cost-effective and ideal solutions for providing trees with the soil volumes needed to help them establish, grow and mature. The result of this is larger trees and even greater benefits when combined with the control of surface water run-off at source.

The TreeBox HP system combines high strength concrete supports and cover slabs with plastic wall cells. It creates a structural wall which sits around the concrete supports. A large void is created which can be filled with soil or tree sand depending on whether the application is for sustainable drainage or just tree growth. The concrete covers provide a load bearing surface which can be overlayed with any hard landscape surfacing material.

With a load capacity of 60 tonnes, it is suitable for all types of load bearing applications including carparks, green roofs, sustainable drainage systems, service vehicle access areas and streetscapes.

InfraWeb TRP (Tree Root Protection)

InfraWeb TRP is a 3 dimensional cellular confinement system for tree root protection. InfraWeb TRP can be used to create a hard-wearing, stable and free draining structure to prevent soil compaction whilst maintaining water and air flow to tree roots, allowing traffic above.

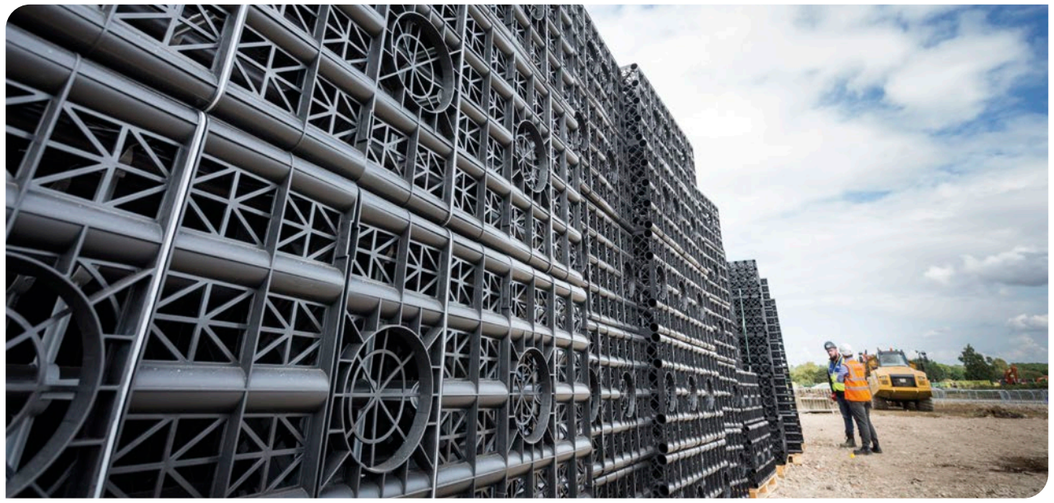
INFRAWEB TRP

Description	Panel Dimensions (m)	Code
Infraweb TRP 75mm deep	1.45 x 8	IW7535W145X8
Infraweb TRP 75mm deep	2.42 x 8	IW7535
Infraweb TRP 100mm deep	2.42 x 8	IW10035
Infraweb TRP 150mm deep	2.42 x 8	IW15035
Infraweb TRP 200mm deep	2.42 x 8	IW20035
InfraWeb J Pin (700mm)*	-	IW700JPIN
InfraWeb Manual Stapler	-	IWP6C8ST
InfraWeb 10mm Staples (Box of 5000no)	-	IW10MMST

POLYSTORM GEOCELLULAR SYSTEM

GEOCELLULAR SYSTEM

The Polystorm Geocellular range is designed to provide surface water retention, attenuation or infiltration at a variety of depths. It is ideally suited to deeper applications and can accommodate a wide range of traffic loadings, from pedestrianised areas to large HGV parks. The Polystorm modular cells are combined to form a structure that receives rainwater collected from roofs or surface drains. The rainwater is then either attenuated by the structure, when wrapped in an impermeable membrane, or infiltrated by the structure, when wrapped in a permeable geotextile.



Flexible design

Manufactured from polypropylene, the Polystorm system is lightweight yet robust, providing a number of health and safety benefits, while also making it easier to handle and install. Due to their modular nature, Polystorm geocellular units offer significant design flexibility, making the system ideal for creating narrow strips or for use in confined areas. Thanks to the units' unique rounded corners, there's also a reduced likelihood of membrane punctures.

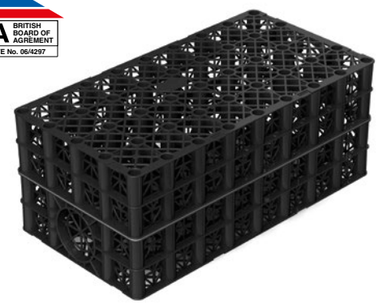
Geocellular System

- Up to 95% void ratio providing greater water storage capacity and reduced excavation and disposal costs
- Modular units allow flexibility of shape, making the system ideal for narrow strips or for use in restricted areas
- Light in weight yet robust, affording excellent health and safety and installation benefits
- Unique rounded corners make it easy to handle and reduce likelihood of punctures to membranes
- 100% recyclable at the end of its useful life
- Load-bearing capacity from 20 to 83 tonnes per square metre
- The range can be designed for non-trafficked or trafficked applications
- Suitable for retention, attenuation and infiltration systems
- Up to 60-year design life
- Pre-wrapped bundles are available that can be delivered to site ready to install

POLYSTORM-R

PRODUCT CODE: PSM1A

Polystorm-R has been designed for use in trafficked and loaded areas. It has a 61 tonnes/m² compressive strength and is manufactured from over 90% recycled material content.



Note: Exact colour may vary due to recycled material.

ELEMENT	VALUE
Technical specification overview	
Product Code	PSM1A*
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m³
Unit weight	9kg
Unit storage volume	0.19m³ (190 litres)
Void ratio	95%
Vertical compressive strength	610kN/m² **
Lateral compressive strength	63kN/m² **
Short-term vertical deflection	60kN/m² per mm
Short-term lateral deflection	4.4kN/m² per mm
Maximum burial depths:	
Heavy trafficked	3.2m***
Light trafficked	3.5m***
Non-trafficked	3.7m***

Note: Polystorm-R is ideal for use in trafficked and pedestrian applications subject to a structural design check and suitable installation conditions.

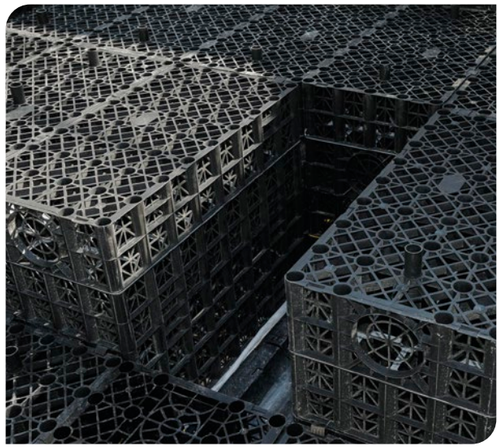
* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

*** Based on ground conditions being dense sand and gravel with no groundwater present, using the calculation methodology detailed within CIRIA C680 (2008). Where ground conditions differ, please consult our Technical Department on +44 (0) 1509 615100.

Polystorm-R Key Benefits

- Made from specially selected and controlled recycled materials
- Environmentally friendly, sustainable solution
- Vertical compressive strength of 61 tonnes/m²
- Ideal for retention, attenuation or infiltration applications/schemes with a suitable geomembrane or geotextile
- BBA approved certificate number No. 06/4297
- Can be used as part of a value engineered hybrid system with Polystorm Deep
- Integrated inlet and outlet
- 3D flow throughout the structure
- 95% void ratio
- 60 years creep limited life expectancy



POLYSTORM DEEP

PRODUCT CODE: PSM5

Polystorm Deep modular cells are combined to form a structure that receives rainwater collected from roofs or surface water drains. It has been designed for use in trafficked applications such as lorry parks and industrial access roads and has a vertical compressive strength of 61 tonnes/m² and can be buried deeper than any other Polystorm cell.

ELEMENT	VALUE
Technical specification overview	
Product code	PSM5*
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m³
Unit weight	11kg
Unit storage volume	0.19m³ (190 litres)
Void ratio	95%
Vertical compressive strength	Maximum 610kN/m² **
Lateral compressive strength	Maximum 146kN/m² **
Short-term vertical deflection	60kN/m² per mm
Short-term lateral deflection	10.1kN/m² per mm
Maximum burial depths:	
Heavy trafficked	7.9m***
Light trafficked	8.2m***
Non-trafficked	8.4m***

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

*** Based on ground conditions being dense sand and gravel with no groundwater present, using the calculation methodology detailed within CIRIA C680 (2008). Where ground conditions differ, please consult our Technical Department on +44 (0) 1509 615100.

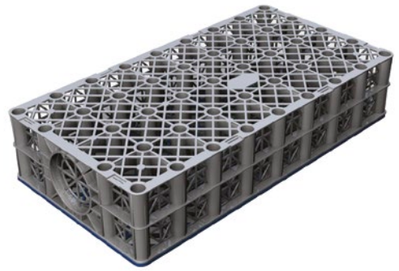
Polystorm Deep Key Benefits

- Vertical compressive strength of 61 tonnes/m², lateral compressive strength of 14.6 tonnes /m²
- Ideal for retention, attenuation and infiltration applications with a suitable geomembrane or geotextile
- Allow flexibility of shape – ideal for shallow excavation systems, narrow strips or use in restricted areas
- Can be used as part of a value engineered hybrid system with Polystorm-R
- Integrated inlet and outlet
- 3D flow throughout the structure
- 95% void ratio
- Light in weight yet robust – excellent health and safety and installation benefits
- 100% recyclable
- 50 years creep limited life expectancy
- Manufactured from over 82% recycled material

POLYSTORM XTRA

PRODUCT CODE: PSM3

Designed for use in heavily trafficked shallow, non-sub-base applications, Polystorm Xtra has a vertical compressive strength of 83 tonnes/m², making it suitable for use in heavily trafficked areas such as lorry parks and industrial access roads.



ELEMENT	VALUE
Technical specification overview	
Product code	PSM3*
Length	1m
Width	0.5m
Depth	0.21m
Total volume	0.105m³
Unit weight	6kg
Unit storage volume	0.0986m³ (98 litres)
Void ratio	94%
Vertical compressive strength	Maximum 834kN/m² **
Lateral compressive strength	Maximum 93kN/m² **
Short-term vertical deflection	97.8kN/m² per mm
Short-term lateral deflection	7.1kN/m² per mm
Maximum burial depths:	
Heavy trafficked	4.8m***
Light trafficked	5.1m***
Non-trafficked	5.4m***

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

*** Based on ground conditions being dense sand and gravel with no groundwater present, using the calculation methodology detailed within CIRIA C680 (2008).

Where ground conditions differ, please consult our Technical Department on +44 (0) 1509 615100.

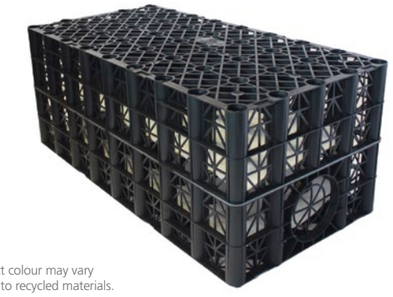
Polystorm Xtra Key Benefits

- Vertical compressive strength of 83 tonnes/m²
- Ideal for retention, attenuation or infiltration applications schemes with a suitable geomembrane or geotextile
- Designed for heavy trafficked conditions which require shallow excavations
- Installed with blue lid facing down for increased strength
- Integrated inlet and outlet
- 3D flow throughout the structure
- 94% void ratio
- 100% recyclable

POLYSTORM BIOMAT

PRODUCT CODE: PSM1BM

Polystorm Biomat is designed for use with Polystorm attenuation and infiltration systems and comprises a tri-laminate of low density plastic composite (biomat).



Exact colour may vary due to recycled materials.

The biomat floats on water and is designed to intercept and treat any potential residual emulsified oils that may be present within the surface water. The use of Polystorm Biomat provides additional oil retention and water treatment capability to an underground water storage system.

Polystorm Biomat Key Benefits

- Pollutant-intercepting floating mat degrades residual oils by absorption and aerobic digestion
- Can be incorporated into Polystorm retention, infiltration and attenuation systems
- 95% void ratio
- Light in weight yet robust – excellent health and safety and installation benefits
- 60 years creep limited life expectancy
- 100% recyclable
- Units are manufactured from recycled materials

ELEMENT	VALUE
Technical specification overview	
Product code	PSM1BM
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m³
Unit weight	9kg
Unit storage volume	0.19m³ (190 litres)
Void ratio	95%
Vertical compressive strength	Maximum 610kN/m² **
Lateral compressive strength	Maximum 63kN/m²**
Short-term vertical deflection	60kN/m² per mm
Short-term lateral deflection	4.4kN/m² per mm
Intrinsic permeability (k)	Minimum 1.0 x 10⁵
Oil retention	56g/m²
Effluent discharge at max. oil loading	10ppm

Note: Polystorm Biomat is ideal for use in trafficked and pedestrian applications subject to a structural design check and suitable installation conditions.

Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

POLYSTORM INSPECT

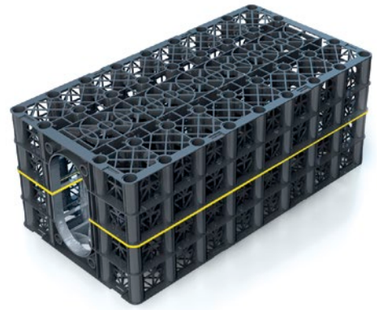
PRODUCT CODE: PSM4

The Polystorm Inspect cell is complementary to the Polystorm range of modular cell solutions. Its primary purpose is to provide a horizontal tunnel along the length of a fully installed Polystorm structure to enable access for inspection and maintenance.

Polystorm Inspect is a high-strength, thermoplastic cell which evenly distributes its load through the Polystorm structure. The tunnel end is left open by default but the unit can be closed off if required by clipping into place the moulded end plate. For purposes of identification, the cell features a yellow centre section and end plate.

Polystorm Inspect Key Benefits

- Creates a horizontal tunnel running through the tank to provide access for inspection and maintenance, i.e. jetting and rodding
- Can be used with Polystorm-R
- Tunnel can be used as a flow inlet track achieving greater stormwater flow distribution within the unit
- Large access tunnel (height 320mm and width 172mm nominal) – allows maximum field of vision while maintaining the system's structural performance
- High strength to weight ratio
- Lightweight cell allows easier handling and reduced health and safety risk
- Utilises the same Shear Connectors and Clips as the Polystorm range
- The tunnel restricts the dissipation of silt into the overall structure, making inspection and maintenance easier
- Polystorm Inspect cells with 225mm or 300mm inlets are available (PSM4CRD225 or PSM4CRD300)



ELEMENT	VALUE
Technical specification overview	
Product code	PSM4*
Length	1m
Width	0.5m
Depth	0.4m
Total volume	0.2m^3
Unit weight	11.6kg
Unit storage volume	0.188m^3 (188 litres)
Void ratio	94%
Vertical compressive strength	Maximum 440kN/m^2 **
Lateral compressive strength	Maximum 63kN/m^2**
Short-term vertical deflection	63.2kN/m^2 per mm
Short-term lateral deflection	5.5kN/m^2 per mm
Maximum burial depths:	
Heavy trafficked	3.2m***
Light trafficked	3.5m***
Non-trafficked	3.7m***

Note: The table above is applicable to PSM4 without the end plate.

* Each unit includes 4 Clips and 2 Shear Connectors.

** Compressive strength at yield, maximum recommended value for design purposes.

*** Based on ground conditions being dense sand and gravel with no groundwater present, using the calculation methodology detailed within CIRIA C680 (2008).

Where ground conditions differ, please consult our Technical Department on +44 (0) 1509 615100.

POLYSTORM ACCESS

PRODUCT CODE: SEE PRODUCT SELECTOR BELOW

Polystorm Access provides a 1m x 0.5m vertical shaft within a Polystorm geocellular structure to enable surface access for remote camera inspection and maintenance activities, such as flushing and rodding.

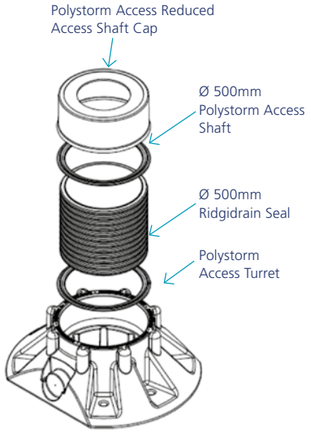
The system consists of a 500mm-diameter shaft which extends from surface level to the top of a Polystorm structure, at which point a turret provides an interface between the shaft and the inspection chamber within the Polystorm structure. At the bottom of the chamber, a base unit interlocks with the surrounding layer of Polystorm cells, whilst supporting the geomembrane.

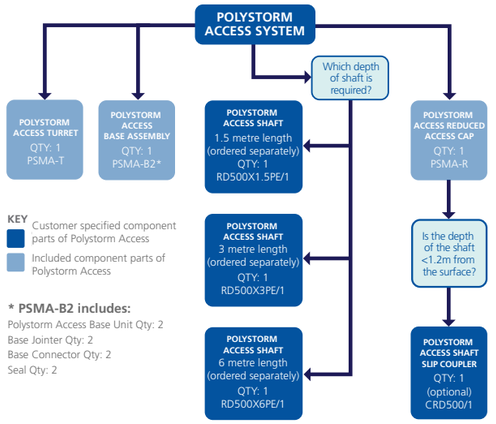
A 350mm reduced access shaft cap can be provided to comply with inspection chamber regulations. Polystorm Access is suitable for use with Polystorm Lite, Polystorm-R and Polystorm Xtra and may be combined with Polystorm Inspect for full length remote inspection and maintenance. It can also be used in conjunction with Polystorm Deep (please note Polystorm Deep is not compatible with Polystorm Inspect).

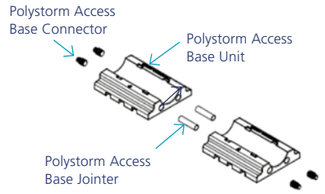
Polystorm Access Key Benefits

- Meets minimum 450mm width requirement for inspection chamber access, with 350mm reduced access where regulations dictate
- Integrated solution; can be used with Polystorm Inspect to monitor internal volume of geocellular structure
- Base unit provides smooth transition between Polystorm Inspect units
- Multiple inspection configurations can be achieved when used in conjunction with Polystorm Inspect
- Manufactured from polyethylene for light weight, ease of handling and high strength
- Sustainability: all components 100% recyclable after use

Please note: The Polystorm Access turret and base assembly are black. They are shown blue for illustration purposes.





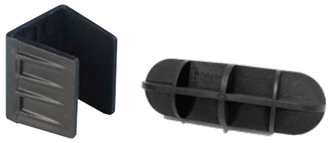


Nominal weights

PSMA-B2 = 8kg
PSMA-T = 19kg
PSMA-R = 4kg

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

POLYSTORM ASSOCIATED PRODUCTS



Connection Accessories

CONNECTION ACCESSORIES	
Description	**Roll Dimensions m**
Polystorm Clip	PSMCLIP
Polystorm Shear Connector	PSMSC MLD

Polystorm Geomembrane

POLYSTORM GEOMEMBRANES FOR RETENTION AND ATTENUATION		
Description	**Roll Dimensions m**	**Code**
Geomembrane Roll	1m x 100m	PV13001
Geomembrane Roll	2m x 100m	PV13007
Geomembrane Roll	3m x 100m	PV13008
Geomembrane Roll	4m x 100m	PV13009
Geomembrane Roll	6m x 100m	PV13010
Geomembrane Double Sided Lapping Tape	100mm x 15m	PV13011

Polystorm Geotextile

POLYSTORM GEOTEXTILES		
Description	**Roll Dimensions m**	**Code**
Polystorm Soakaway Geotexile for infiltration	100 x 4.5	PVTS1000
Polystorm Heavy Duty Soakaway Geotextile for infiltration	100 x 4.5	PVTS2000
Permatex 300 for added protection of geomembranes	100 x 3	PV23010
Permatex 300 for added protection of geomembranes	100 x 6	PV23011
Permafilter Geotextile for treatment and infiltration	100 x 2.4	PV23002

SHOEBOX MEMBRANE AND GEOTEXTILE

Butek Landline
Containment Solutions

PRODUCT CODE: PVSBOX

The Polypipe shoebox membrane is used alongside our geocellular Polystorm product range, converting products from soak-away solutions to impermeable attenuation tanks. Supplied by the liquid containment specialists Butek™, the synthetic membrane of plasticised PVC features a layer of polyester fabric for dimensional stability. It is also resistant to weathering and ultraviolet rays.

SHOEBOX MEMBRANE		
Tested property	**Test method**	**Values (*)**
Base Cloth	-	HT Polyester
Coating	-	Flexible PVC both sides
Total Weight	-	900gsm
Tensile Strength	EN ISO 1421	Warp – 4,000 N/50mm, Weft – 4,000 N-50mm
Tear Strength	DIN 53363	Warp – 600N, Weft – 500N
Coating Adhesion	DIN 53357	90 N/50mm
Temperature Resistance	-30 to +70 Deg C	DIN EN ISO 876-2

SHOEBOX GEOTEXTILE				
Material properties	**Unit**	**Test method**	**Typical values**	**Tolerance**
Mechanical properties				
Tensile strength MD	kN/m	EN ISO 10319	17.80	-2.30
Tensile strength CMD	kN/m		17.80	-2.30
Elongation MD	%	EN ISO 10319	50.00	±11.50
Elongation CMD	%	EN ISO 12236	55.00	±12.70
Static puncture resistance (CBR)	kN	EN ISO 13433	3.10	-0.62
Dynamic perforation resistance - Cone drop	mm	EN ISO 14574	13.00	+3.30
Pyramid puncture	N	EN ISO 13719	275	-55.00
Protection efficiency	%		1.50	-0.30
Hydraulic properties				
Water permeability normal to the plane	m/s	EN ISO 11058	17.80	-2.30
Water flow normal to the plane (*)	l/m²/s		17.80	-2.30
Water flow capacity in the plane @20 kPa	m²/s	EN ISO 12958	50.00	±11.50
Characteristic opening size (AOS)	um	EN ISO 12956	55.00	±12.70
Physical properties				
Water permeability normal to the plane	mm	EN ISO 9863-1	2.20	±0.44
Weight (*)	g/m²	EN ISO 9864	2.50	±25.00
Composition	100% Polypropylene non-woven geotextile			
Durability	Predicted to be durable for a minimum of 25 years in natural soil with 4<pH<9 and soil temperatures <25°C			

* Not mandated characteristics for CE marking

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

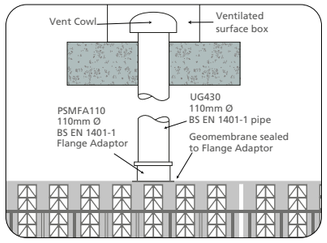
POLYSTORM ASSOCIATED PRODUCTS

Polystorm Cell with Ridgidrain Flange Connection

POLYSTORM CELLS WITH RIDGIDRAIN FLANGE ADAPTERS	
Description	**Code**
Polystorm – R cell with 225mm Ridgidrain Flange Adapter	PSMCRD225
Polystorm – R cell with 300mm Ridgidrain Flange Adapter	PSMCRD300
Polystorm Inspect cell with 225mm Ridgidrain Flange Adapter	PSM4CRD225
Polystorm Inspect cell with 300mm Ridgidrain Flange Adapter	PSM4CRD300

Flange Adapter to EN1401

FLANGE ADAPTERS	
Description	**Code**
Flange Adapter to EN1401 (110mm)	PSMFA110
Flange Adapter to EN1401 (160mm)	PSMFA160
Flange Adapter to Ridgidrain (150mm)	PSMFA150
Flange Adapter to Ridgidrain (225mm)	PSMFA225
Flange Adapter to Ridgidrain (300mm)	PSMFA300
Flange Adaptor to Ridgidrain (375mm)	PSMFA375
Flange Adaptor to Ridgidrain (400mm)	PSMFA400
Flange Adaptor to Ridgidrain (450mm)	PSMFA450
Flange Adaptor to Ridgidrain (500mm)	PSMFA500
Flange Adapter to Ridgidrain (600mm)	PSMFA600



Venting

Every attenuation tank requires at least one vent to maximise hydraulic performance and reduce stress on encapsulating geomembranes. This can be done by installing either a Vent Cowl or a connection pipe to vent air directly into an upstream chamber.

POLYSTORM CELLS WITH RIDGIDRAIN FLANGE ADAPTERS	
Description	**Code**
Vent Cowl	SVC40B
BS EN1401-1 pipe	UG430
Flange Adapter to EN1401 (110mm)	PSMFA110

CATCHPITS AND SILT TRAPS

Used upstream of a Polystorm tank, our catchpits and silt traps are easily maintainable and minimise the ingress of debris, silt, organic and other particles into the Polystorm system, extending its useful life.

Silt Traps

320-60mm silt traps are available from the RIDGISTORM Separate silt traps range.

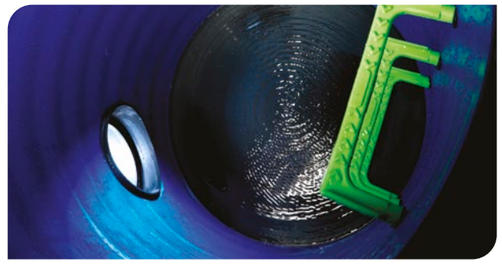
Mini Silt Trap
Product code: PSMST110

Advanced Silt Trap
Product code: PSMST160/15

Product code: PSMST160

Mini & Basic Catchpits

450 - 3000mm diameter bespoke catchpits are available from the RIDGISTORM Separate range.



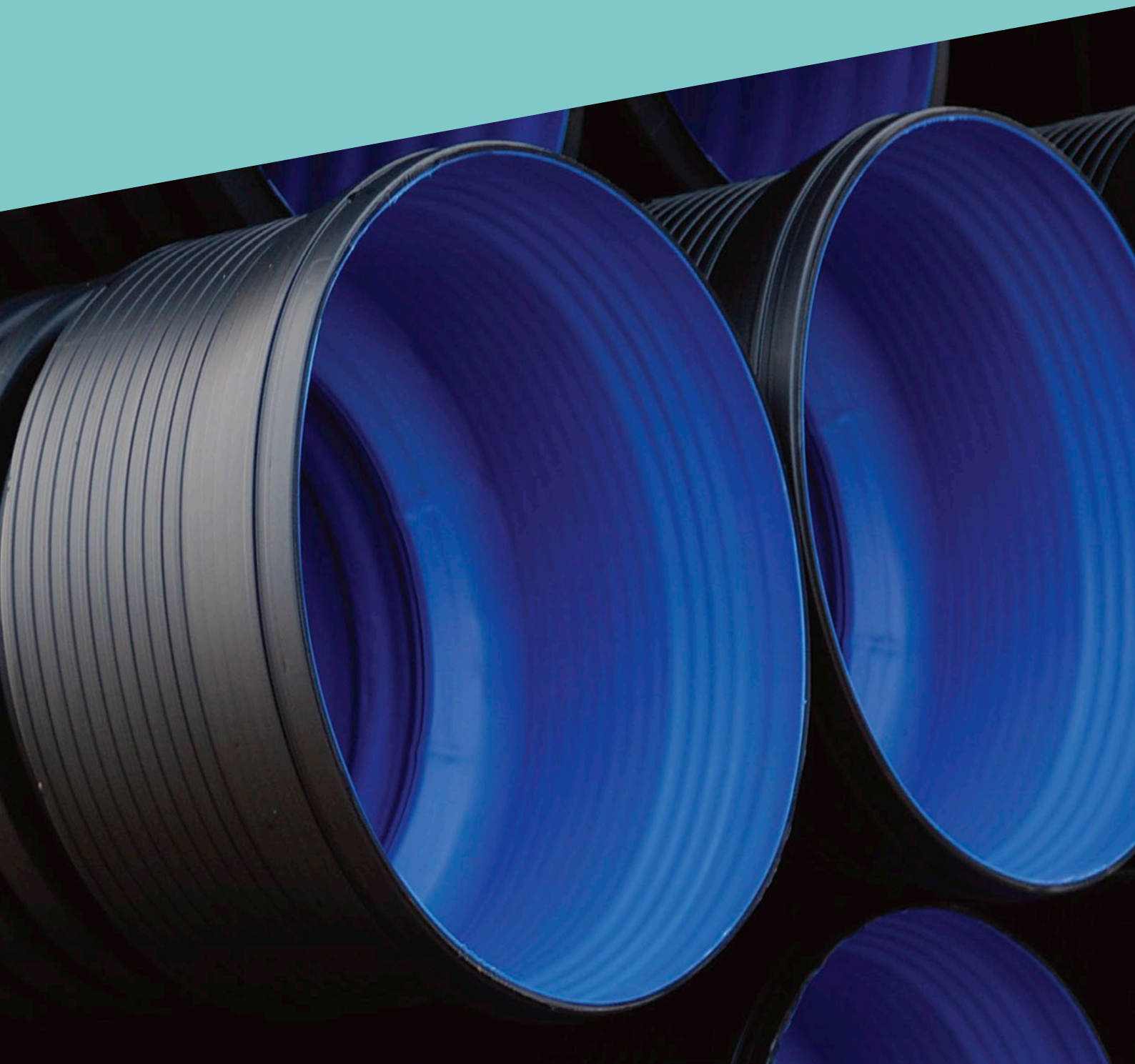
Polystorm Catchpits

A pre-fabricated 600mm diameter catchpit with three inlet/outlet sizes, available in 150mm, 225mm and 300mm.

Advanced Catchpits

In addition to silt traps and catchpits, we also offer RIDGISTORM Separate Advanced Catchpits with additional treatment features.

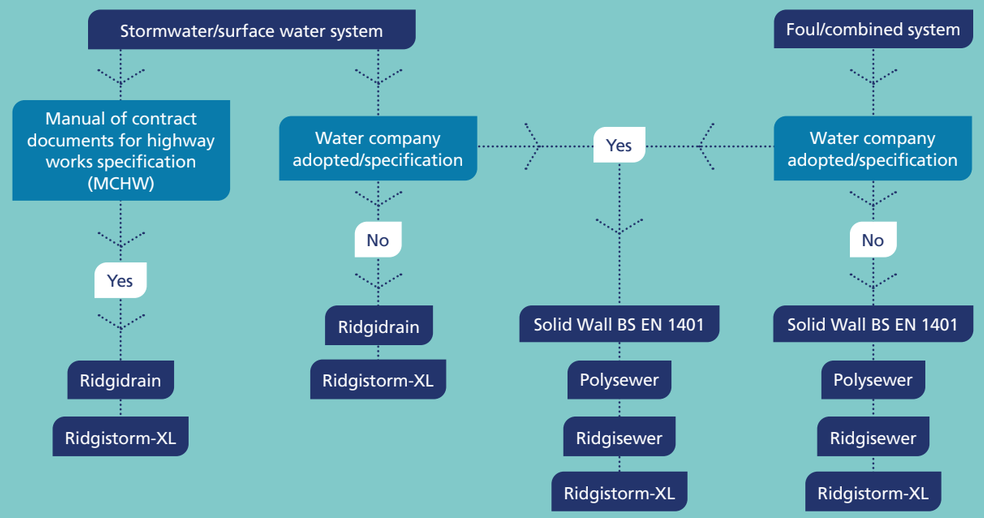
SURFACE WATER DRAINAGE



SURFACE WATER DRAINAGE

Offering increased sustainability without compromise in performance, Ridgidrain is suitable for use in civils and infrastructure non-pressurised surface and sub-surface drainage applications.

Polypipe Drainage Pipework Applications



Ridgidrain

The very first twinwall surface drainage system in the UK with Highways Authority Product Approval Scheme (HAPAS) status, Ridgidrain has a high strength-to-weight ratio and flexibility to resist high traffic loads. It has a low friction inner wall for improved hydraulics and comes in 6m lengths (3m lengths as standard for 750-900mm) to significantly reduce the number of joints and risk of leakage. Made from up to 100% recycled high-strength HDPE, using a structured wall design to produce a robust yet flexible pipe, Ridgidrain has a high resistance to the most common chemicals found in stormwater. It offers excellent performance, meaning you get all the benefits of sustainability, strength and lower weight without compromising on long-term effectiveness.

Network Rail (Ridgidrain is Network Rail Parts and Drawing Systems (PADS) Approved, Certificate Number: PA05/05460

London Underground Ridgitrack is transport for London Underground approved. Registration Number: 2640

We also offer a range of gully solutions, Ridgitreat treatment pipes, Linflex Type 6 fin drain and Type 8 narrow filter drain and Ridgitrack for London Underground and higher loading applications.

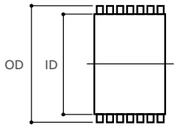
Applications

- Highways
- Rail
- Airports
- Residential
- Commercial
- Industrial
- Agricultural
- Education

Ridgidrain Key Benefits

- Full range of pipes and fittings from 100-900mm
- BBA and BBA HAPAS approved, certificate numbers: 00/3678 and HAPAS 02/H068
- Network Rail Parts and Drawing Systems (PADS) approved
- Structured wall design for high ring stiffness and strength
- Manufactured to SN6 with a predicted design life in excess of 50 years
- Sizes 750-900mm are also available to SN4
- Leak tight tested for non-pressure applications
- Smooth bore giving excellent hydraulic properties
- Longer lengths so fewer joints for improved resilience to leakage
- Light in weight for reduced transport, installation costs and improved Health and Safety benefits
- Up to 94% lighter than concrete means fewer deliveries to site
- Reduces CO_2 consumed in production, transportation and on-site handling
- Manufactured from up to 100% recycled material
- Resistant to ground movement and differential settlement
- Integrally socketed in diameters 400-900mm for ease of installation
- Unperforated, half perforated and fully perforated options available
- Installation stubs available for improved ease of jointing

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS



Ridgidrain Plain Ended Pipes

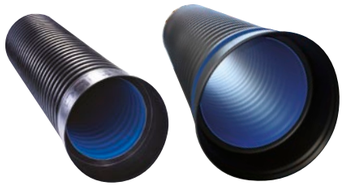
Order seals separately if required,
1 coupling, 2 seals per length.

Network Rail approval only includes 400-600mm
Certificate Number: PA05/05460

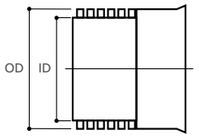
RIDGIDRAIN PLAIN ENDED PIPES

Nominal size mm	Code	ID mm	OD mm	Length m	Option	Weight kgm^{-1}	Pack qty
100	RD100X6PE*	100	118	6	U	0.75	85
100	RD100X6PEHP*	100	118	6	H	0.75	85
100	RD100X6PEP*	100	118	6	P	0.75	85
150	RD150X6PE/1	150	178	6	U	1.2	36
150	RD150X6PEHP/1	150	178	6	H	1.2	36
150	RD150X6PEP/1	150	178	6	P	1.2	36
225	RD225X6PE/1	225	267	6	U	2.45	14
225	RD225X6PEHP/1	225	267	6	H	2.45	14
225	RD225X6PEP/1	225	267	6	P	2.45	14
300	RD300X6PE/1	300	355	6	U	4.18	9
300	RD300X6PEHP/1	300	355	6	H	4.18	9
300	RD300X6PEP/1	300	355	6	P	4.18	9
375	RD375X6PE/1	375	435	6	U	7.5	5
375	RD375X6PEHP/1	375	435	6	H	7.5	5
375	RD375X6PEP/1	375	435	6	P	7.5	5
400	RD400X6/1▲	400	458	6	U	8.13	5
400	RD400X6HP/1▲	400	458	6	H	8.13	5
400	RD400X6P/1▲	400	458	6	P	8.13	5
450	RD450X6/1▲	450	523	6	U	9.3	4
450	RD450X6HP/1▲	450	523	6	H	9.3	4
450	RD450X6P/1▲	450	523	6	P	9.3	4
500	RD500X6/1▲	500	576	6	U	12.25	4
500	RD500X6HP/1▲	500	576	6	H	12.25	4
500	RD500X6P/1▲	500	576	6	P	12.25	4
600	RD600X6/1▲	600	700	6	U	17.5	2
600	RD600X6HP/1▲	600	700	6	H	17.5	2

Larger sizes up to 3000mm are available as Ridgistorm-XL. * Black inner wall.
▲ Made to order, subject to lead times and minimum order quantities.
U = Unperforated. H = Half perforated. P = Fully perforated. Weights are nominal.



400-600mm 750-900mm



Ridgidrain Integrally Socketed Pipes

Order seals separately if required, 1 per length.

Network Rail approval only includes 400-600mm
Certificate Number: PA05/05460

RIDGIDRAIN INTEGRALLY SOCKETED PIPES

Nominal size mm	Code	ID mm	OD mm	Length m	Option	Weight kgm^{-1}	Pack qty
400	RD400X6/1	400	458	6	U	8.0	5
400	RD400X6HP/1	400	458	6	H	8.0	5
400	RD400X6P/1	400	458	6	P	8.0	5
450	RD450X6/1	450	523	6	U	9.0	4
450	RD450X6HP/1	450	523	6	H	9.0	4
450	RD450X6P/1	450	523	6	P	9.0	4
500	RD500X6/1	500	576	6	U	12.0	4
500	RD500X6HP/1	500	576	6	H	12.0	4
500	RD500X6P/1	500	576	6	P	12.0	4
600	RD600X6/1	600	700	6	U	14.0	2
600	RD600X6HP/1	600	700	6	H	14.0	2
600	RD600X6P/1	600	700	6	P	14.0	2
750	RD7506X3/1	750	852	3	U	30	2
750	RD7506X3HP/1	750	852	3	H	30	2
750	RD7506X3P/1	750	852	3	P	30	2
900	RD9006X3/1	900	1022	3	U	39	2
900	RD9006X3HP/1	900	1022	3	H	39	2
900	RD9006X3P/1	900	1022	3	P	39	2

750-900mm also available in 1.5m and 6m lengths and in stiffness classification SN4.
Larger sizes up to 3000mm are available as Ridgistorm-XL.
U = Unperforated. H = Half perforated. P = Fully perforated. Weights are nominal.

INTERNAL END CAPS

Nominal size mm	Code	Pack qty
100	EC1059INT	10
150	EC1778INT	10
225	EC5064INT	10
300	EC6010INT	10

EXTERNAL SEALABLE END CAPS

Nominal size mm	Code	Pack qty
100	EC100 ▲	10
150	EC150	10
225	EC225	10
300	EC300	10
375	EC375	10
400	EC400 ▲	10
450	EC450/1	10
500	EC500/1 ▲	10
600	EC600/1	10
750	EC750/1	1
900	EC900/1	1

▲ Made to order, subject to lead times and minimum order quantities.

Ridgidrain Internal End Caps

Not suitable for air tests.
Manufactured from polyethylene.

PLASTIC TUB OF LUBRICANT

Size kg	Code	Pack qty
1	LUBX1	12
2.5	LUBX2.5	4

Plastic Tub of Lubricant

RIDGIDRAIN SEALS

Nominal size mm	Code	Pack qty
100	SRD100	170
150	SRD150	36
225	SRD225	14
300	SRD300	8
375	SRD375	10
400	SRD400/1	2
450	SRD450/1	2
500	SRD500/1	2
600	SRD600/1	2
750	SRD750/1	1
900	SRD900/1	1

RIDGIDRAIN NITRILE SEALS

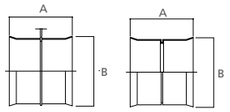
Nominal size mm	Code	Pack qty
100	SRD100NIT	170
150	SRD150NIT	36
225	SRD225NIT	14
300	SRD300NIT	8
375	SRD375NIT ▲	10
400	SRD400NIT/1 ▲	2
450	SRD450NIT/1 ▲	2
500	SRD500NIT/1 ▲	2
600	SRD600NIT/1 ▲	2
750	SRD750NIT/1	1
900	SRD900NIT/1	1

▲ Made to order, subject to lead times and minimum order quantities.
Typically used where soil contains certain chemicals. Please send soil reports to our Technical Team.

Ridgidrain Sealing Rings

EPDM seals to BS EN 681:Part 1 as standard.
Optional nitrile seals are available, but may be subject to order quantities and lead times.

Network Rail approval only includes 400-600mm
Certificate Number: PA05/05460



Ridgidrain Double Socket Couplings

Order seals separately if required, 2 per coupling.

RIDGIDRAIN DOUBLE SOCKET COUPLINGS

Nominal size mm	Code	A mm	B mm	Pack qty
100	CRD100	140	133	43
150	CRD150	185	186	18
225	CRD225	260	289	7
300	CRD300	280	379	3
375	CRD375	335	460	1
400	CRD400DS/1	400	475	1
450	CRD450DS/1	435	540	1
500	CRD500DS/1	489	589	1
600	CRD600DS/1	560	719	1
750	CRD750DS/1	660	929	1
900	CRD900DS/1	800	1123	1

Slip couplings available on request.

Network Rail approval only includes 400-600mm Certificate Number: PA05/05460

Excludes 750/900 Excludes 750/900

Ridgidrain 11.25° & 15° Bends

Order seals separately if required, 2 per bend.

Manufacturing process may vary and therefore differ from product image.

RIDGIDRAIN 11.25° & 15° BENDS

Nominal size mm	Code	Pack qty
100	BRD100X11.25	10
150	BRD150X15	10
225	BRD225X11.25/1	1
300	BRD300X11.25/1	1
375	BRD375X11.25	1
400	BRD400X11.25/1	1
450	BRD450X11.25/1	1
500	BRD500X11.25/1	1
600	BRD600X11.25/1	1
750	BRD750X11.25/1	1
900	BRD900X11.25/1	1

Larger sizes up to 3000mm are available as Ridgistorm-XL.

Network Rail approval only includes 400-600mm Certificate Number: PA05/05460

Excludes 750/900 Excludes 750/900

Ridgidrain 22.5° & 30° Bends

Order seals separately if required, 2 per bend.

Manufacturing process may vary and therefore differ from product image.

RIDGIDRAIN 22.5° & 30° BENDS

Nominal size mm	Code	Pack qty
100	BRD100X22.5	10
150	BRD150X30	10
225	BRD225X22.5/1	1
300	BRD300X22.5/1	1
375	BRD375X22.5	1
400	BRD400X22.5/1	1
450	BRD450X22.5/1	1
500	BRD500X22.5/1	1
600	BRD600X22.5/1	1
750	BRD750X22.5/1	1
900	BRD900X22.5/1	1

Larger sizes up to 3000mm are available as Ridgistorm-XL.

Network Rail approval only includes 400-600mm Certificate Number: PA05/05460

Excludes 750/900 Excludes 750/900

RIDGIDRAIN 45° BENDS

Nominal size mm	Code	Pack qty
100	BRD100X45	10
150	BRD150X45	10
225	BRD225X45/1	1
300	BRD300X45/1	1
375	BRD375X45	1
400	BRD400X45/1	1
450	BRD450X45/1	1
500	BRD500X45/1	1
600	BRD600X45/1	1
750	BRD750X45/1	1
900	BRD900X45/1	1

Larger sizes up to 3000mm are available as Ridgistorm-XL.

Network Rail approval only includes 400-600mm Certificate Number: PA05/05460

Excludes 750/900 Excludes 750/900

Ridgidrain 45° Bends

Order seals separately if required, 2 per bend.

Manufacturing process may vary and therefore differ from product image.

RIDGIDRAIN 87.5 & 90° BENDS

Nominal size mm	Code	Pack qty
100	BRD100X87.5	10
150	BRD150X87.5	10
225	BRD225X90/1	1
300	BRD300X90/1	1
375	BRD375X90	1
400	BRD400X90/1	1
450	BRD450X90/1	1
500	BRD500X90/1	1
600	BRD600X90/1	1
750	BRD750X90/1	1
900	BRD900X90/1	1

Larger sizes up to 3000mm are available as Ridgistorm-XL.

Network Rail approval only includes 400-600mm Certificate Number: PA05/05460

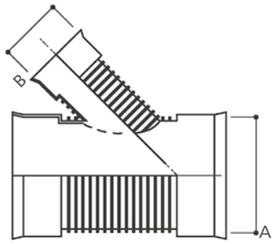
Excludes 750/900 Excludes 750/900

Ridgidrain 87.5 & 90° Bends

Order seals separately if required, 2 per bend.

Manufacturing process may vary and therefore differ from product image.

This brochure incorporates the most common bends and junctions. Bends and junctions incorporating other angles and diameters are available as specials.



Ridgidrain 45° Junctions

All junctions are triple socketed. Order seals and couplings separately.

Manufacturing process may vary and therefore differ from product image.

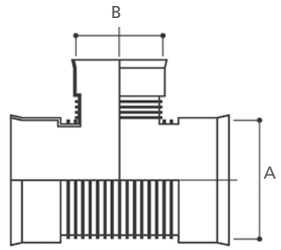
45° RIDGIDRAIN JUNCTIONS			
Nominal size A mm	Nominal size B mm	Code	Pack qty
100	100	JRD100100Y	10
150	100	JRD150100Y	5
150	150	JRD150150Y	5
225	100	JRD225100Y	1
225	150	JRD225150Y	1
225	225	JRD225225Y	1
300	100	JRD300100Y	1
300	150	JRD300150Y	1
300	225	JRD300225Y	1
300	300	JRD300300Y	1
375	100	JRD375100Y	1
375	150	JRD375150Y	1
375	225	JRD375225Y	1
375	300	JRD375300Y ▲	1
375	375	JRD375375Y	1
400	100	JRD400100Y/1 ▲	1
400	150	JRD400150Y/1	1
400	225	JRD400225Y/1 ▲	1
400	300	JRD400300Y/1 ▲	1
400	400	JRD400400Y/1 ▲	1
450	100	JRD450100Y/1	1
450	150	JRD450150Y/1	1
450	225	JRD450225Y/1	1
450	300	JRD450300Y/1 ▲	1
450	375	JRD450375Y/1 ▲	1
450	450	JRD450450Y/1	1

45° RIDGIDRAIN JUNCTIONS			
Nominal size A mm	Nominal size B mm	Code	Pack qty
500	100	JRD500100Y/1 ▲	1
500	150	JRD500150Y/1	1
500	225	JRD500225Y/1 ▲	1
500	300	JRD500300Y/1 ▲	1
500	375	JRD500375Y/1 ▲	1
500	400	JRD500400Y/1 ▲	1
500	500	JRD500500Y/1 ▲	1
600	100	JRD600100Y/1 ▲	1
600	150	JRD600150Y/1	1
600	225	JRD600225Y/1	1
600	300	JRD600300Y/1	1
600	450	JRD600450Y/1 ▲	1
600	600	JRD600600Y/1 ▲	1
750	100	JRD750100Y/1 ▲	1
750	150	JRD750150Y/1	1
750	225	JRD750225Y/1	1
750	300	JRD750300Y/1 ▲	1
750	375	JRD750375Y/1 ▲	1
750	400	JRD750400Y/1 ▲	1
750	450	JRD750450Y/1 ▲	1
750	500	JRD750500Y/1 ▲	1
750	600	JRD750600Y/1 ▲	1
750	750	JRD750750Y/1 ▲	1
900	100	JRD900100Y/1 ▲	1
900	150	JRD900150Y/1	1
900	225	JRD900225Y/1	1
900	300	JRD900300Y/1 ▲	1
900	375	JRD900375Y/1 ▲	1
900	450	JRD900450Y/1 ▲	1
900	500	JRD900500Y/1 ▲	1
900	600	JRD900600Y/1 ▲	1
900	750	JRD900750Y/1 ▲	1
900	900	JRD900900Y/1 ▲	1

Excludes 750/900 Excludes 750/900

▲ Made to order, subject to lead times and minimum order quantities.
Larger sizes up to 3000mm are available as Ridgistorm-XL.
Other sizes available on request.

All dimensions provided are nominal.



Ridgidrain 90° Junctions

All junctions are triple socketed. Order seals and couplings separately.

Manufacturing process may vary and therefore differ from product image.

90° RIDGIDRAIN JUNCTIONS			
Nominal size A mm	Nominal size B mm	Code	Pack qty
100	100	JRD100100T	10
150	100	JRD150100T	10
150	150	JRD150150T	1
225	100	JRD225100T	1
225	150	JRD225150T/1	1
225	225	JRD225225T/1	1
300	100	JRD300100T	1
300	150	JRD300150T/1	1
300	225	JRD300225T	1
300	300	JRD300300T/1	1
375	100	JRD375100T	1
375	150	JRD375150T	1
375	225	JRD375225T ▲	1
375	300	JRD375300T ▲	1
375	375	JRD375375T	1
400	100	JRD400100T/1 ▲	1
400	150	JRD400150T/1	1
400	225	JRD400225T/1 ▲	1
400	300	JRD400300T/1 ▲	1
400	400	JRD400400T/1 ▲	1
450	100	JRD450100T/1	1
450	150	JRD450150T/1	1
450	225	JRD450225T/1	1
450	300	JRD450300T/1 ▲	1
450	375	JRD450375T/1 ▲	1
450	450	JRD450450T/1	1
500	100	JRD500100T/1 ▲	1
500	150	JRD500150T/1	1
500	225	JRD500225T/1 ▲	1
500	300	JRD500300T/1 ▲	1
500	375	JRD500375T/1 ▲	1
500	500	JRD500500T/1 ▲	1

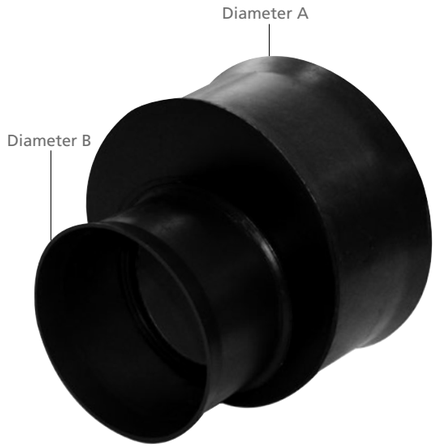
90° RIDGIDRAIN JUNCTIONS			
Nominal size A mm	Nominal size B mm	Code	Pack qty
600	100	JRD600100T/1 ▲	1
600	150	JRD600150T/1	1
600	225	JRD600225T/1	1
600	300	JRD600300T/1	1
600	450	JRD600450T/1 ▲	1
600	600	JRD600600T/1	1
750	100	JRD750100T/1 ▲	1
750	150	JRD750150T/1	1
750	225	JRD750225T/1	1
750	300	JRD750300T/1 ▲	1
750	375	JRD750375T/1 ▲	1
750	400	JRD750400T/1 ▲	1
750	450	JRD750450T/1 ▲	1
750	500	JRD750500T/1 ▲	1
750	600	JRD750600T/1 ▲	1
750	750	JRD750750T/1	1
900	100	JRD900100T/1 ▲	1
900	150	JRD900150T/1	1
900	225	JRD900225T/1	1
900	300	JRD900300T/1 ▲	1
900	375	JRD900375T/1 ▲	1
900	450	JRD900450T/1 ▲	1
900	500	JRD900500T/1 ▲	1
900	600	JRD900600T/1 ▲	1
900	750	JRD900750T/1 ▲	1
900	900	JRD900900T/1	1

Excludes 750/900 Excludes 750/900

▲ Made to order, subject to lead times and minimum order quantities.
Larger sizes up to 3000mm are available as Ridgistorm-XL.
Other sizes available on request.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

All dimensions provided are nominal.



Ridgidrain Level Invert Reducers

Order seals separately if required.

RIDGIDRAIN LEVEL INVERT REDUCERS		
Nominal size A mm	Nominal size B mm	Code
150	100	ARD150100
225	100	ARD225100
225	150	ARD225150
300	100	ARD300100
300	150	ARD300150
300	225	ARD300225
375	100	ARD375100 ▲
375	150	ARD375150 ▲
375	225	ARD375225 ▲
375	300	ARD375300
400	100	ARD400100/1 ▲
400	150	ARD400150/1 ▲
400	225	ARD400225/1 ▲
400	300	ARD400300/1 ▲
400	375	ARD400375/1 ▲
450	100	ARD450100/1 ▲
450	150	ARD450150/1
450	225	ARD450225/1 ▲
450	300	ARD450300/1 ▲
450	375	ARD450375/1 ▲
450	400	ARD450400/1 ▲
500	100	ARD500100/1 ▲
500	150	ARD500150/1 ▲
500	225	ARD500225/1 ▲
500	300	ARD500300/1 ▲
500	375	ARD500375/1 ▲
500	400	ARD500400/1 ▲
500	450	ARD500450/1 ▲

RIDGIDRAIN LEVEL INVERT REDUCERS		
Nominal size A mm	Nominal size B mm	Code
600	100	ARD600100/1 ▲
600	150	ARD600150/1 ▲
600	225	ARD600225/1 ▲
600	300	ARD600300/1
600	375	ARD600375/1 ▲
600	450	ARD600450/1 ▲
600	500	ARD600500/1 ▲
750	100	ARD750100/1 ▲
750	150	ARD750150/1 ▲
750	225	ARD750225/1 ▲
750	300	ARD750300/1 ▲
750	375	ARD750375/1 ▲
750	400	ARD750400/1 ▲
750	500	ARD750500/1 ▲
750	600	ARD750600/1 ▲
900	100	ARD900100/1 ▲
900	150	ARD900150/1 ▲
900	225	ARD900225/1 ▲
900	300	ARD900300/1 ▲
900	375	ARD900375/1 ▲
900	400	ARD900400/1 ▲
900	450	ARD900450/1 ▲
900	500	ARD900500/1 ▲
900	600	ARD900600/1 ▲
900	750	ARD900750/1 ▲

Network Rail approval only includes 400-600mm
Certificate Number: PA05/05460

▲ Made to order, subject to lead times and minimum order quantities.

RIDGIDRAIN TO BS EN 1401 SPIGOT AND SOCKET		
Description	Code	Pack qty
100mm Ridgidrain socket to 110mm BS EN 1401 spigot	ARD100110	10
150mm Ridgidrain socket to 160mm BS EN 1401 spigot	ARD150160	10
100mm Ridgidrain socket to 110mm BS EN 1401 socket	ARD100110 & UG401	10
150mm Ridgidrain socket to 160mm BS EN 1401 socket	ARD150160 & UG601	10

Some sockets are made to order, subject to lead times and minimum order quantities.
Order seals separately if required.

RIDGIDRAIN TO SUPER CLAY SOCKET		
Description	Code	Pack qty
100mm Ridgidrain socket to 100mm Super Clay socket	ARD100110 & UG434	10
150mm Ridgidrain socket to 150mm Super Clay socket	ARD150160 & UG634	10

Some sockets are made to order, subject to lead times and minimum order quantities.
Order seals separately if required.

RIDGIDRAIN TO THICK CLAY SOCKET		
Description	Code	Pack qty
100mm Ridgidrain socket to 100mm Thick Clay socket	ARD100110 & UG486	10
150mm Ridgidrain socket to 150mm Thick Clay socket	ARD150160 & UG696	10

Some sockets are made to order, subject to lead times and minimum order quantities.
Order seals separately if required.

ARD150160

ARD100110

UG634

UG696

Ridgidrain Installation Stubs

Ridgidrain Installation Stubs are available for pipe sizes 400-600mm. They assist with the safe jointing of pipes by providing a flat surface for on-site construction machinery to apply a central force to push against, eliminating any damage to the end of the pipes and keeping the joining pipe square to the joint.

Ridgidrain Installation Stubs Key Benefits

- Assist with the safe and correct jointing of pipes
- Provide a flat surface for on-site construction machinery to apply a central force to push against
- Eliminate any damage to the end of the pipes and keep the joining pipe square to the joint
- Can be reused for other projects of the same pipe diameter

RIDGIDRAIN INSTALLATION STUBS		
Description	Code	Pack qty
400mm Ridgidrain	PFRD400	1
450mm Ridgidrain	PFRD450	1
500mm Ridgidrain	PFRD500	1
600mm Ridgidrain	PFRD600	1

Ridgidrain Installation Stubs

320mm Non-Adoptable Inspection Chamber

460mm Non-Adoptable Inspection Chamber

Ridgidrain Non-Adoptable Inspection Chambers

Ridgidrain Inspection Chambers are a range of 320mm and 460mm modular polypropylene inspection chambers. All of the chambers are formed with a pre-benched base, side risers, seals and cover and frames. They provide a method of non-man entry access to non-adoptable surface water drains for inspection and maintenance purposes.

RIDGIDRAIN 320MM NON-ADOPTABLE INSPECTION CHAMBERS

Description	Code	Pack qty
320mm chamber base with 100mm Ridgidrain main channel and 2 x 100mm Ridgidrain 45° inlets (inc. 4 Ridgidrain pipe adapters and seals, 2 x 110mm blanking plugs and base - 170mm high)	UG437A	1
320mm chamber base with 100mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 100mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adapters and seals, 3 x 110mm blanking plugs and base - 170mm high)	UG537A	1
320mm side riser (135mm high)	UG438	1
320mm riser sealing ring	UG388	1
320mm square PVC cover and frame [C] (c/w seal and fixing screws)	UG502	1

RIDGIDRAIN 460MM NON-ADOPTABLE INSPECTION CHAMBERS

Description	Code	Pack qty
460mm chamber base with 100mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 100mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adapters and seals, 3 x 110mm blanking plugs and base – 220mm high)	UG440A	1
460mm chamber base with 150mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 150mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adapters and seals, 2 x 110mm and 2 x 160mm blanking plugs and base – 258mm high)	UG670A	1
460mm side riser (215mm high)	UG431	1
460mm riser sealing ring	UG488	1
460mm square polypropylene cover and 65mm deep frame [A+] (c/w seal, fixing screws and 350mm restrictor ring)	UG510	1
460mm square ductile iron cover and frame [B125]	UG513	1

Qpit Type 8 Catchpit

Qpit Type 8 Catchpit is a prefabricated 600mm catchpit, used for highways applications. It is an easily maintainable and cost-effective way of protecting downstream drainage systems by separating out silts and debris. The catchpit is 1.5m high, including a 300mm sump. There are three inlet/outlet option sizes available in 150mm, 225mm and 300mm. The catchpits are supplied with end caps for each inlet/outlet.

QPIT TYPE 8 CATCHPIT

Description	Code	Pack qty
Qpit Type 8 Catchpit with three 150mm inlet/outlets	CP60015150	1
Qpit Type 8 Catchpit with three 225mm inlet/outlets	CP60015225	1
Qpit Type 8 Catchpit with two 300mm inlet/outlets	CP60015300	1

Qpit Type 8 Catchpit

Ridgidrain Saddles

Our 750mm and 900mm Ridgidrain Saddles allow for a leak-tight and secure connection of 160mm EN 1401-1 underground drainage pipe. They are suitable for both new installation and for post connection into existing pipelines.

Ridgidrain Saddles Key Benefits

- Designed specifically to seal onto structured wall plastic drain pipes
- Durable watertight joint tested to 0.5 bar hydrostatic pressure and 0.3 bar vacuum
- Prohibits protrusion of lateral pipe into the main drain
- Can be connected to smaller pipes and to laterals of different materials using adapters
- Environmentally friendly as all elements are recyclable
- Elastomeric seal ensures reliable flexible watertight joint between lateral and main drain
- Reduces disruption and risk of damage to the drain as there is no need to fully excavate around the pipe

RIDGIDRAIN SADDLES

Nominal size mm	Code	Pipe stiffness	Pack qty
750	RSTSUA03	SN4	1
750	RSTSUA04	SN6	1
900	RSTSUA05	SN4	1
900	RSTSUA06	SN6	1

Ridgidrain Saddle

Ridgigully

Ridgigully

A high quality, light, easy to handle and install alternative to heavy concrete gullies. Ridgigully is manufactured in durable HDPE in two sizes. Ridgigully is suitable for both trapped and untrapped systems with a 160mm spigot outlet as standard, which is easily adapted using the multi adapter (ARGMULTI) to Ridgidrain, Polysewer and other pipe systems. A range of accessories are available, including gully risers that key into the gully and eliminate the need for brickwork to finish level.

Ridgigully Key Benefits

- Unique, patented screw thread corrugations
- Light in weight with superior strength
- Effective keying into the concrete surround
- Nested gullies lock together for easy handling, transportation and safer storage on-site
- BBA approved

RIDGIGULLY

Description	Code	Diameter mm	Depth mm	Capacity litres	Pack qty
750mm Ridgigully	RG450750	450	750	80	12
900mm Ridgigully	RG450900	450	900	104	12
BS EN 1401 Coupling	UG602	160	-	-	1
Multi Adapter	ARGMulti	-	-	-	20

Ridgiflex

Ridgiflex

Ideal for flexible gully connections, 150mm single-wall corrugated Ridgiflex has the same external profile as Ridgidrain. Available in 25m coils, it is compatible with standard Ridgidrain fittings.

RIDGIFLEX GULLY CONNECTION PIPE

ID mm	OD mm	Code	Length m	Pack qty
150	178	RF150X25	25	1

Midigully

Midigully is an ideally sized gully for domestic and smaller capacity industrial and commercial applications, manufactured from durable HDPE with a 110mm spigot outlet.

Midigully Key Benefits

- Spigot outlet, suitable for connection to 110mm BS EN 1401 sockets that can also be adapted to 100mm Ridgidrain
- Nested gullies lock together for easy handling, transportation and safer storage on-site
- A range of adapters available
- Optional aluminium silt bucket and cast iron grating

Midigully

MIDIGULLY

Code	Diameter mm	Depth mm	Capacity litres	Pack qty
RG300600	300	600	24	36

MIDIGULLY ACCESSORIES

Description	Code
110mm BS EN 1401 coupling	UG402 ▲
Silt Bucket	RGSB ▲
Grating	RGG ▲

▲ Made to order, subject to lead times and minimum order quantities.

Ridgichute

Ridgichute is a sumpless gully that has been designed for use on carriageways for the capture of surface water from a larger catchment area. It eliminates the need for maintenance and cleaning activities of gully pots on high-risk carriageways. Water fal directly down through the outlet into the Ridgidrain system, where maintenance can occur downstream within a RIDGISTORMSeparate chamber or Qpit Type 8 chambers.

Ridgichute

Ridgichute Key Benefits

- Reduces the risk of gully blockages due to silt accumulation
- Captures water from a larger carriageway surface area
- Reduces the need for workers on the carriageway undertaking gully maintenance
- Reduces number of individual maintenance activities
- Fits under the most popularly used gratings
- Integrates with the Ridgidrain system
- Eliminates the foul flush of heavily polluted sump liquor

RIDGICHUTE

Code	Size mm	Outlet mm	Pack qty
RGC600225	600 x 600	225	1
RGC600300	600 x 600	300	1
RGC900225	900 x 900	225	1
RGC900300	900 x 90	300	1
RGC1200225	1200 x 675	225	1
RGC1200300	1200 x 675	300	1

Ridgitrack

Ridgitrack

Ridgitrack is a made to order extension to the popular Ridgidrain surface water drainage piping system, it has been specifically designed for rail applications and is approved for use within London Underground. Available in sizes 150-600mm plain ended or in sizes 400-600mm integrally socketed, Ridgitrack can be supplied perforated, half perforated or unperforated and is complemented by a range of bends and junctions.

Applications

London Underground trackside drainage within:

• Cess • UTX crossings • Foot areas • Sub-surface S12 areas

Ridgitrack Key Benefits

- Full range of plain ended and integrally socketed SN8 pipes and fittings from 150mm to 600mm
- London Underground approved for drainage renewal works
- Structured wall design for high ring stiffness and strength
- Smooth bore giving excellent hydraulic properties
- Supplied in 6m lengths for quicker installation
- Longer lengths so fewer joints for improved resilience to leakage
- Light in weight for easier handling and installation, reducing project timescales
- Withstands ground movement and differential settlement
- Reduces CO_2 consumed in production, transportation and on-site handling
- Incorporates recycled plastic
- Transport for London Underground Approved, Registration no. 2640

RIDGITRACK PLAIN ENDED PIPE

ID mm	OD mm	Code	Length mm	Weight kgm-1	Coupling code
150	178	RD150X6PE(HP or P)/2 ▲	6	9	CRD150
225	267	RD225X6PE(HP or P)/2 ▲	6	18	CRD225
300	355	RD300X6PE(HP or P)/2 ▲	6	30	CRD300
375	435	RD375X6PE(HP or P)/2 ▲	6	48	CRD375
400	458	RD400X6PE(HP or P)/2 ▲	6	54	CRD400DS/1
500	576	RD500X6PE(HP or P)/2 ▲	6	78	CRD500DS/1
600	700	RD600X6PE(HP or P)/2 ▲	6	102	CRD600DS/1

▲ Made to order, subject to lead times and minimum order quantities.
H= Half perforated P= Fully perforated.
Weights stated are nominal

London Underground

RIDGITRACK INTEGRALLY SOCKETED PIPE

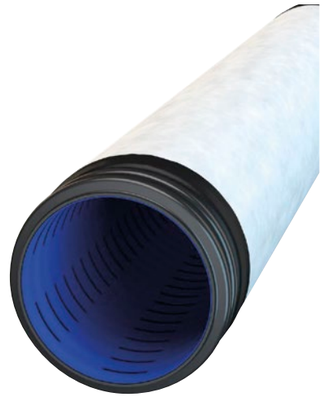
ID mm	OD mm	Code	Length mm	Weight kgm-1
400	458	RD400X6P(HP or P)/2 ▲	6	54
500	576	RD500X6P(HP or P)/2 ▲	6	78
600	700	RD600X6P(HP or P)/2 ▲	6	102

▲ Made to order, subject to lead times and minimum order quantities.
H= Half perforated P= Fully perforated.
Weights stated are nominal

London Underground

Ridgitreat

Ridgitreat surface water treatment pipes are designed to complement the existing Ridgidrain range when using a treatment infiltration solution. It comprises of a perforated HDPE plain ended Ridgidrain twinwall surface water pipework, wrapped in Permafilter Geotextile. The semi-permeable Permafilter Geotextile is engineered to catch, filter and break down hydrocarbon deposits such as oil and petrol from surface water, before infiltrating into the surrounding soil. The Permafilter geotextile provides a habitat for naturally occurring micro-organisms that feed on the trapped oil, removing pollutants through biodegradation, extending the product's design life beyond that which is expected with a generic geotextile. The oil retention capability is 800 ml/linear metre.

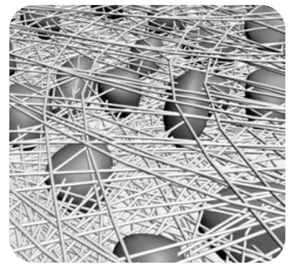


Applications

• Rail • Car Parks • Highways • Commercial
• Leisure • Retail

Ridgitreat Key Benefits

- A range of pipes available from 100-300mm
- Compatible with Ridgidrain fittings
- Ridgidrain is BBA and BBA HAPAS approved
- Ridgidrain is Network Rail Parts and Drawing Systems (PADS) approved
- Captures residual hydrocarbons and removes pollutants by biodegradation
- Enhances water quality when used as part of a source control sustainable drainage system and eliminates the need for end of line petrol interceptors
- Structured wall design for high ring stiffness and strength
- Smooth bore giving excellent hydraulic properties
- EPDM sealing rings
- Longer lengths so fewer joints for improved resilience to leakage
- Light in weight for reduced transport/installation costs and improved health and safety benefits
- Incorporates recycled plastic
- Resistant to ground movement and differential settlement



Microscopic view of self-maintaining eco-system

Oil retention capability is 800 ml/linear metre.

RIDGITREAT PLAIN ENDED PIPE

Nominal size mm	Code	Pack qty	Length m	Weight kg	Coupling code	Pack qty	Seal code	Pack qty
100	RDT100X6PEP ▲	85	6	5	CRD100	43	SRD100	170
150	RDT150X6PEP/1 ▲	36	6	7.5	CRD150	18	SRD150	36
225	RDT225X6PEP/1 ▲	14	6	15	CRD225	7	SRD225	14
300	RDT300X6PEP/1 ▲	9	6	25.5	CRD300	3	SRD300	8

▲ Made to order, subject to lead times and minimum order quantities.
Weights stated are nominal.

Network Rail

BBA APPROVAL INSPECTION CERTIFICATION CERTIFICATE No. 00/3078

BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 02/H068

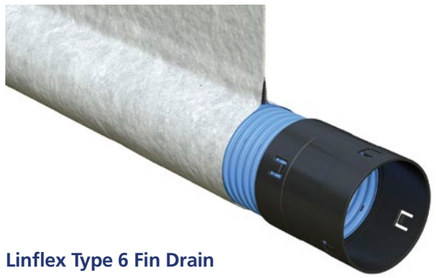
Network Rail approval. Certificate Number:
PA05/05460 (approvals for Ridgidrain)

LINFLEX FIN AND NARROW FILTER DRAINS

Linflex Fin and Narrow Filter Drains provide drainage for both surface and sub-surface water. For applications where only sub-surface drainage is required, e.g. low capacity drainage for keeping water out of road structures, Fin and Narrow Filter Drains may be used as an alternative. These products are for use in edge-of-pavement drains for collection and/or disposal of sub-surface water in accordance with the requirements of Highways England.

Linflex Fin and Narrow Filter Drains Key Benefits

- Reduced requirement for aggregate
- Elimination of stone scatterby vehicles
- Reduced possibility of water logging of road base due to surface water inflow
- Manufactured to meet Highways England requirements (MCHW, Volume 3, Drawings F18,F19 and F20)
- Available in Type 6 and Type 8 configurations



Linflex Type 6 Fin Drain

Linflex Type 8 Narrow Filter Drain

Linflex Type 6 Fin Drain

PVCu perforated corrugated pipe to BS 4962:1989 supplied assembled with a composite plastic fin of two layers of geotextile separated by a plastic core. The geotextile is a non-woven fabric of heat-bonded polypropylene/polyethylene filaments. The product is delivered to site in a polyethylene protective wrapper for UV protection. Linflex Type 6 Fin Drain is manufactured in accordance with MCHW, Volume 1, sub-clause 514.

LINFLEX TYPE 6 FIN DRAIN						
Nominal size mm	Code	Pack qty	Length m	Fin Depth mm	Coupling code	Pack qty
80	FD80X12.5X600 ▲	1	12.5	600	DC80M	10
80	FD80X12.5X750 ▲	1	12.5	750	DC80M	10
80	FD80X12.5X900 ▲	1	12.5	900	DC80M	10
100	FD100X12.5X600 ▲	1	12.5	600	DC100M	10
100	FD100X12.5X750 ▲	1	12.5	750	DC100M	10
100	FD100X12.5X1000 ▲	1	12.5	1000	DC100M	10
160	FD160X12.5X600 ▲	1	12.5	600	DC160M	10
160	FD160X12.5X750 ▲	1	12.5	750	DC160M	10

▲ Made to order, subject to lead times and minimum order quantities.

Linflex Type 8 Narrow Filter Drain

Single wall PVCu perforated corrugated pipe to BS 4962:1989 supplied in geotextile which is a non-woven fabric of heat-bonded polypropylene/ polyethylene filaments. The product is delivered to site in a polyethylene protective wrapper for UV protection. Linflex Type 8 Narrow Filter Drain is manufactured in accordance with MCHW, Volume 1, sub-clause 515.

LINFLEX TYPE 8 NARROW FILTER DRAIN					
Nominal size mm	Code	Pack qty	Length m	Coupling code	Pack qty
60	GE60150 ▲	1	150	DC60	10
80	GE80100 ▲	1	100	DC80M	10
100	GE100100	1	100	DC100M	10
160	GE16045 *	1	45	DC160M	10

▲ Made to order, subject to lead times and minimum order quantities.

LAND DRAINAGE

LAND DRAINAGE

Excess water can lead to restricted land access, reduced crop yields, soil erosion and environmental damage, making effective drainage a critical component of any water management scheme.

Landcoil Key Benefits

- Range of pipes and fittings in sizes from 60-200mm
- Kitemarked to BS 4962 (blue coil and couplings only)
- Perforated and unperforated options available
- Flexible, durable and easy to install
- Extremely cost-effective
- Manufactured from PVCu

Landcoil Drainage Systems

Our Landcoil range is specifically designed to aid in the successful management of land water. It offers significant improvements in areas where poor drainage negatively affects ground quality, from agricultural applications requiring enhanced soil conservation or crop production capabilities to sports and leisure projects struggling with waterlogged sections of pitch or turf.

Manufactured in one of the UK's largest dedicated manufacturing facilities, our PVCu Landcoil range includes a choice of diameters, colours and coil lengths. It is also durable and easy to install, carries the BS 4962 quality Kitemark and is supported by an extensive range of fittings.

bsi. Plastics pipes and fittings for use as subsoil field drains KITEMARK™

KM 06710
BS 4962

LANDCOIL SYSTEM

Landcoil is a PVCu single-walled flexible piping system, used for the successful management of land water. It is available perforated or unperforated in blue as standard, as a Kitemarked system.

KM 06710
BS 4962

Landcoil System Key Benefits

- Range of pipes and fittings available in sizes 60-200mm
- Kitemarked to BS 4962 (blue coil and couplings only)
- Perforated and unperforated options available
- Flexible, durable and easy to install
- Extremely cost-effective
- Available in yellow for gas applications
- Available with a non-woven fabric geotextile wrap (see Linflex Type 8 Narrow Filter Drain)

LANDCOIL

Nominal size mm	Code	OD mm	ID mm	Length m	Description	Colour	Pack qty
60	LD6025B	60	50	25	Perforated	B	1
60	LD6050B	60	50	50	Perforated	B	1
60	LD60150B	60	50	150	Perforated	B	1
60	UD60150B	60	50	150	Unperforated	B	1
80	LD8025B	80	71	25	Perforated	B	1
80	LD8050B	80	71	50	Perforated	B	1
80	LD80100B	80	71	100	Perforated	B	1
80	UD80100B	80	71	100	Unperforated	B	1
100	LD10025B	100	90	25	Perforated	B	1
100	LD10050B	100	90	50	Perforated	B	1
100	LD100100B	100	90	100	Perforated	B	1
100	UD100100B	100	90	100	Unperforated	B	1
160	LD16025B	160	148	25	Perforated	B	1
160	LD16045B	160	148	45	Perforated	B	1
160	UD16045B	160	148	45	Unperforated	B	1
200	LD20040B ▲	200	183	40	Perforated	B	1
200	UD20040B ▲	200	183	40	Unperforated	B	1

▲ Made to order, subject to lead times and minimum order quantities.

Landcoil End Caps

Not suitable for air tests.

LANDCOIL END CAPS

Nominal size mm	Code	Pack qty
60	HEC60	10
80	HEC80	10
100	HEC100	10
160	HEC160	10
200	HEC200 ▲	10

▲ Made to order, subject to lead times and minimum order quantities.

Landcoil Multi-Junctions

LANDCOIL MULTI-JUNCTIONS

Nominal size mm	Code	Colour	Pack qty
60 to 60	CDJ66	Blue	100
80 to 100	CDJ10M	Blue	20
160 to 60	CDJ160M	Black	5

Outfall pipe subject to minimum order quantity.

Couplings Key Benefits

- 3-lug design for greater integrity and fit of joint
- Ease of installation
- Ensures a secure joint
- Reduces the possibility of the coils pulling away from the coupling during the drainage process
- Kitemarked to BS 4962

LANDCOIL COUPLINGS

Nominal size mm	Code	OD mm	Length mm	Wall thickness mm	Pack qty
60	DC60	64	110	1.9	10
80	DC80M*	85	130	2.35	10
100	DC100M*	105	130	2.35	10
160	DC160M*	165	150	2.35	10
200	DC200	205	165	2.4	10

*Made from polypropylene, other couplings are made from PVCu.
Note: Landcoil couplings can also be used with Linflex Fin and Narrow Filter Drains.
They can also be used for Gas Ducting.

Landcoil Couplings

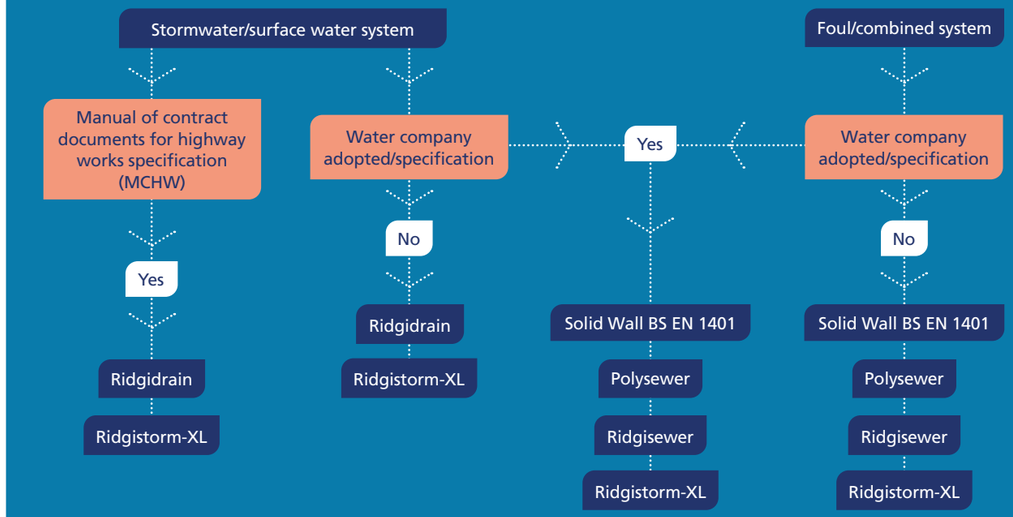
KM 06710
BS 4962

SEWER SYSTEMS

SEWER SYSTEMS

We offer the largest range of thermoplastic structured walled sewer pipes from 150-3000mm, providing robust chemical and sewer gas-resistant pipes for new and replacement gravity sewer systems. Both Polysewer and Ridgisewer give design engineers the widest possible product choice for the best possible solution.

Polypipe Drainage Pipework Applications



Polysewer fittings are BBA approved

Ridgisewer fittings are BBA approved in sizes 400-600mm

KM 582885
BS EN 13476
WIS 4-35-01

KM 636505
BS EN 13476
WIS 4-35-01

Sewer Product Range

With diameters ranging from 150-900mm* inclusive, our extensive range of 3m integrally socketed sewer pipes is designed to provide solutions for even the most difficult gravity sewer projects.

Polysewer is a range of stiffness classification SN8 terracotta PVCu structured wall pipes and fittings, available in diameters from 150-300mm and manufactured in accordance with BSI Kitemark licence number KM 582885 to BS EN 13476 and WIS 4-35-01.

Ridgisewer features six sizes from 400-900mm and includes a complete system of couplings, seals, bends, junctions, specialist fabrications and saddles. Sizes 400-600mm are manufactured to stiffness classification SN8, from polypropylene with a terracotta outer and blue inner. Sizes 750-900mm are manufactured to stiffness classification SN4 from polyethylene with a black outer, blue inner and terracotta band. Ridgisewer is manufactured in accordance with BSI Kitemark Licence number KM636505 to BS EN 13476 and WIS 4-35-01.

*Sizes 1050-3000mm are available as Ridgistorm-XL.

Polyswer Key Benefits

- Fully compliant with WIS 4-35-01 and BS EN 13476
- BSI Kitemarked and BBA approved*
- Adopted by water companies**
- Lighter in weight for increased health and safety benefits
- Durable, long-life PVCu, polypropylene and polyethylene
- Structured wall pipe for high ring stiffness and strength
- Integral sockets for quicker installation and greater leak tightness
- Strong, flexible pipe wall withstands ground movement and differential settlement
- Chemical, impact and abrasion resistant
- Resistant to sulphate attack and corrosion by sewer gas
- Meets WRc Code of Practice for high-pressure water-jetting tolerance
- Saddle connectors are available
- Installation stubs available for larger sizes or improved ease of jointing

** We would recommend that local water company approval is confirmed before a final design is complete.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

Polysewer Integrally Socketed Pipes

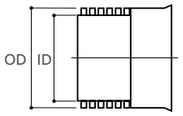
Each pipe supplied with 1 seal.

POLYSEWER INTEGRALLY SOCKETED PIPES

Nominal size mm	Code	ID mm	OD mm	Length m	Pack qty
150	PS632BU	146	160	3	46
225	PS1032	229	250	3	23
300	PS1232	301	330	3	8

6m lengths are available, subject to minimum order quantity and lead times.

KM 582885
BS EN 13476
WIS 4-35-01



Polysewer Sealing Rings

POLYSEWER SEALING RINGS

Nominal size mm	Code	Pack qty
150	PDR53BU	10
225	PSSP2	10
300	PSSP3	10

KM 582885
BS EN 13476
WIS 4-35-01

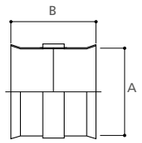
Polysewer Double Socket Couplings

Each coupling supplied with 2 seals.

POLYSEWER DOUBLE SOCKET COUPLINGS

Nominal size mm	Code	A mm	B mm	Pack qty
150	PS601	161	183	10
225	PS1001	251	260	5
300	PS1201	332	280	3

KM 582885
BS EN 13476
WIS 4-35-01



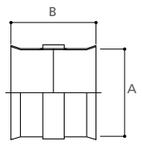
Polysewer Double Socket Slip Couplings

Each coupling supplied with 2 seals.

POLYSEWER DOUBLE SOCKET SLIP COUPLINGS

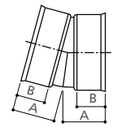
Nominal size mm	Code	A mm	B mm	Pack qty
150	PS600	161	183	10
225	PS1000	251	260	5
300	PS1200	332	280	3

KM 582885
BS EN 13476
WIS 4-35-01



POLYSEWER 15° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
150	PS609	115	95	10
225	PS1009	123.5	92.5	1
300	PS1209	152	114	1

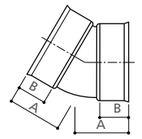


Polysewer 15° Bends

Each bend supplied with 2 seals.

POLYSEWER 30° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
150	PS667	115	95	10
225	PS1067	143.5	92.5	1
300	PS1267	177	114	1

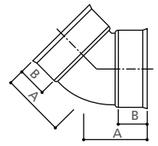


Polysewer 30° Bends

Each bend supplied with 2 seals.

POLYSEWER 45° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
150	PS603	135	95	10
225	PS1003	164.5	92.5	1
300	PS1203	203	114	1

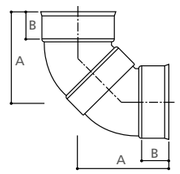


Polysewer 45° Bends

Each bend supplied with 2 seals.

POLYSEWER 90° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
150	PS611	190	63	10
225	PS1011	316.5	92.5	1
300	PS1211	385	114	1



Polysewer 90° Bends

Each bend supplied with 2 seals.

Polysewer 45° Equal Junctions

Each junction supplied with 3 seals.

Polysewer 45° Unequal Junctions

Each junction supplied with 3 seals.

Polysewer 90° Equal Junctions

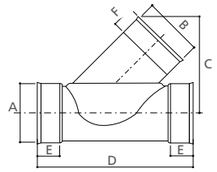
Each junction supplied with 3 seals.

Polysewer 90° Unequal Junctions

Each junction supplied with 3 seals.

POLYSEWER 45° EQUAL JUNCTIONS

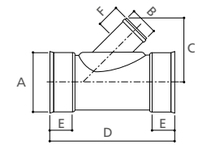
Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	F mm	Pack qty
150 x 150	PS605	161	150	285	445	95	95	5
225 x 225	PS1005	251	225	408	647	92.5	92.5	1
300 x 300	PS1205	332	300	508	812	114	114	1



POLYSEWER 45° UNEQUAL JUNCTIONS

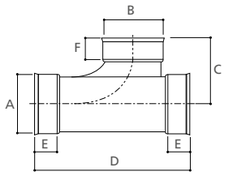
Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	F mm	Pack qty
150 x 110	PS635RS	161	110	242.5	400	62	57	5
225 x 110	PS1035RS	251	110	280.5	517	92.5	67.5	1
225 x 150	PS1031	251	150	324	537	92.5	82.5	1
225 x 160	PS1031RS	251	160	328	567	92.5	82.5	1
300 x 110	PS1235RS	300	110	311	523	114	67.5	1
300 x 150	PS1231	300	150	348	586	114	82.5	1
300 x 160	PS1231RS	300	160	356	573	114	82.5	1
300 x 225	PS12100 ▲	300	225	458	704	114	100	1

▲ Made to order, subject to lead times and minimum order quantities.
Note: 110mm and 160mm sockets are for connection to EN 1401-1 solid wall pipes.
150mm, 225mm and 300mm sockets are for connection to Polysewer structured wall pipes.



POLYSEWER 90° EQUAL JUNCTIONS

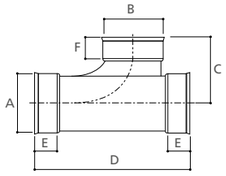
Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	F mm	Pack qty
150 x 150	PS623	150	150	186	400	69	69	5



POLYSEWER 90° UNEQUAL JUNCTIONS

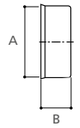
Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	F mm	Pack qty
150 x 110	PS643RS	150	110	182	301	69	65	5

Note: 110mm sockets are for connection to EN 1401-1 solid wall pipes.



POLYSEWER END CAPS

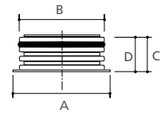
Nominal size mm	Code	A mm	B mm	Pack qty
150	PS6101	150	36	10
225	PS10101	225	98	1
300	PS12101	300	121	1



POLYSEWER SOCKET PLUGS

Nominal size mm	Code	A mm	B mm	C mm	D mm	Pack qty
150	PS620	215	178	85	76	10
225	PS1020	308	248	101	92	1
300	PS1220	395	329	110	101	1

Dimension C is the overall length of the fitting. Dimension D is the length of the spigot that pushes inside a socket. (i.e. D = C minus the thickness of the material that is the flange.)



POLYSEWER SNAP CAPS & SEALS

Nominal size mm	Code	Description	Pack qty
150	PS6103 ▲	To adapt 90° bends and 45° unequal junctions to EN 1401 pipes	10
150	PS6104 ▲	To adapt 90° junctions to EN 1401 pipes	10

▲ Made to order, subject to lead times and minimum order quantities.

POLYSEWER RODDING EYE

Nominal size mm	Code	Description	Pack qty
150	PS622S	Sealed oval top in aluminium	8

Sewer Saddles

The range of saddles for Polysewer and Ridgisewer structured wall plastic pipes allows for the leak-tight and secure connection of 160mm EN 1401-1 underground drainage pipe. They are suitable for both new installations and for post connection into existing pipelines.

SEWER SADDLES

Nominal size mm	Description	Code	Pack qty
300	Polysewer Saddle	SLDPS300	10
400 & 450	Ridgisewer Saddle	SLD375450	10
500	Ridgisewer Saddle	SLD500	10
600	Ridgisewer Saddle	SLD600	10
750	Ridgisewer Saddle	RSTSUA04	1
900	Ridgisewer Saddle	RSTSUA06	1
-	177mm Hole Saw	HOL177	1

Polysewer End Caps

Each end cap supplied with 1 seal.

Polysewer Socket Plugs

Each socket plug supplied with 1 seal.

Polysewer Snap Caps & Seals

Polysewer Rodding Eye

(For sizes 300-600mm)

(For sizes 750-900mm)

Ridgisewer Saddle

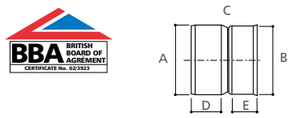
CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

Polysewer Spigot Adapters to EN 1401-1

Each Adapter supplied with 1 seal.

POLYSEWER SPIGOT ADAPTERS TO EN 1401-1

Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	Pack qty
225	PS10102	250	251	241	134	92.5	1
300	PS12102	315	332	265	144	114	1

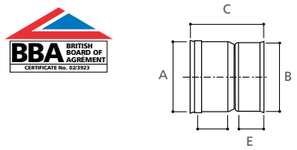


Polysewer Socket Adapters to EN 1401-1

Each adapter supplied with 2 seals.

POLYSEWER SOCKET ADAPTERS TO EN 1401-1

Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	Pack qty
150	PS689	160	161	147	70	77	10
225	PS1089	250	251	240	110	92.5	1
300	PS1289	315	332	286	125	114	1

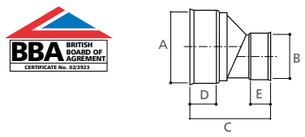


Polysewer level Invert Reducers

Each Adapter supplied with 2 seals.

POLYSEWER LEVEL INVERT REDUCERS

Nominal size mm	Code	A mm	B mm	C mm	D mm	E mm	Pack qty
225 x 150	PS1021	251	150	287	92.5	72.5	1
300 x 225	PS1221	332	220	345	114	92.5	1



Polysewer Adapters to Other Pipe Systems

Each Adapter supplied with seals.

POLYSEWER ADAPTERS TO OTHER PIPE SYSTEMS

Nominal size mm	Code	Description	Pack qty
150	PS634	Double socket to super clayware pipe	10
150	PS696	Double socket to thick clayware pipe	10
150	PS6105	Double socket Ultrarib Adapter	10
225	PS10105	Double socket Ultrarib Adapter	10
300	PS12105	Double socket Ultrarib Adapter	10

Note: For adaption to 255mm and 300mm clay pipe, flexible couplings to WIS 4-41-01 should be used.

Polysewer Inspection Chambers

Polysewer Inspection Chambers are a range of modular polypropylene inspection chambers, formed with a pre-benched base, side risers, seals and cover and frames. They provide a method of non-person-entry access to either non-adoptable or adoptable sewers for inspection and maintenance purposes.

POLYSEWER NON-ADOPTABLE INSPECTION CHAMBERS

Description	Code	Pack qty
460mm chamber base with 150mm Polysewer main channel, 2 x 110mm EN1401 45° inlets and 2 x 150mm Polysewer 90° inlets (base – 258mm high)	PS670	1
460mm side riser (215mm high)	UG431	1
460mm riser sealing ring	UG488	1
460mm square polypropylene cover and 65mm deep frame [A+] (c/w seal, fixing screws and 350mm restricting ring)	UG510	1
460mm square ductile iron cover and frame [B125]	UG513	1

POLYSEWER 460MM INSPECTION CHAMBERS

POLYSEWER ADOPTABLE INSPECTION CHAMBERS

Description	Code	Pack qty
460mm chamber base with 150mm Polysewer main channel, 2 x 110mm EN1401 45° inlets and 2 x 150mm Polysewer 90° inlets (including 2 x 110mm blanking plugs, base and 4 risers – 1060mm high)	SFA671	1
460mm side riser (215mm high)	SFA441	1
460mm riser sealing ring	UG488	1
460mm square ductile iron cover and frame [B125]	UG513	1
460mm restricted access reducer to 350mm	UG514	1

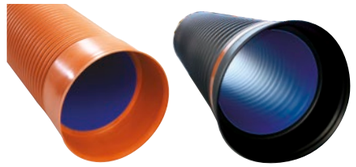
POLYSEWER 600MM INSPECTION CHAMBERS

POLYSEWER ADOPTABLE INSPECTION CHAMBERS

Description	Code	Pack qty
600mm chamber base straight channel and single inlet for 110/150/160mm pipes	IC6BS6	1
600mm chamber base straight channel and three inlets including 2 x 90° equal branch inlets for 110/150/160mm	IC6CRS6	1
150/160mm base Adapter to 150mm Polysewer	IC6PS6	1
150/160mm base Adapter to 160mm BS EN 1401 Underground pipe	IC6UG6	1
150/160mm base Adapter to 110mm BS EN 1401 Underground pipe	IC6UG6	1
150/160mm base end cap to seal unused inlets on IC6BS6 and IC6CRS6	IC6EC6	1
600mm chamber base straight channel and three inlets including 2 x 90° equal branch inlets for 110/150/160/225/250mm pipes	IC6CRS10	1
225/250mm base adapter to 150mm Polysewer	IC6APS106	1
225/250mm base Adapter to 225mm Polysewer	IC6PS10	1
225/250mm base Adapter to 250mm BS EN 1401 Underground pipe	IC6UG10	1
IC600 225/250mm base end cap to seal unused inlets on IC6CRS10 base	IC6EC10	1
IC600 225/250mm base Adapter to 110mm BS EN 1401 Underground pipe	IC6AUG104	1
IC600 225/250mm base Adapter to 160mm BS EN 1401 Underground pipe	IC6AUG106	1
600mm chamber base straight channel for use with 300mm Polysewer pipe	IC6BS12	1
600mm chamber base straight channel and two equal 90° branch entries, for use with for use with 300mm Polysewer pipe	IC6CRS12	1
300/315mm base Adapter to 300mm Polysewer pipe	PS12102	1
300/315mm base 315mm End Cap/Socket Plug to seal unused inlets on IC6BS12 or IC6CRS12 base	UG1220	1
Riser shaft SN8 3m plain end for IC600 Base	RSW600X3PE8	1
Riser cap (can be adapted for reduced access for chamber depths of greater than 1.2m)	IC6RC	1
Riser Ring Seal (required for base to riser and cap to riser connections)	SRSW6008	1

Polysewer Non-Adoptable Inspection Chamber

Polysewer Adoptable Inspection Chamber



400-600mm 750-900mm

Ridgisewer Integrally Socketed Pipe

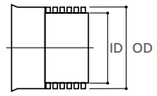
Order seals separately for the Ridgisewer range.

RIDGISEWER INTEGRALLY SOCKETED PIPES

Nominal size mm	Code	ID mm	OD mm	Length m	Weight kg/m	Pack qty
400	RSW400X3IS8	400	457	3	9	5
450	RSW450X3IS8	450	511	3	13	4
500	RSW500X3IS8	500	568	3	14	5
600	RSW600X3IS8	600	672	3	19	2
750*	RSW750X3IS4/1	750	852	3	30	2
900*	RSW900X3IS4/1	900	1022	3	39	2

Note: Sizes 400-600mm are manufactured from polypropylene to stiffness classification SN8 – terracotta pipes with a blue inner. Sizes 750-900mm are manufactured from polyethylene to stiffness classification SN4 – black pipes with a blue inner and terracotta band.
6m lengths available on request, subject to minimum order quantity.
Sizes 1050 - 3000mm are available as Ridgistorm-XL.

KM 636505
BS EN 13476
WIS 4-35-01



Ridgisewer Installations Stubs

RIDGISEWER INSTALLATION STUBS

Nominal size mm	Code	Pack qty
400	PFRSW400	1
450	PFRSW450	1
500	PFRSW500	1
600	PFRSW600	1

Ridgisewer Sealing Rings

RIDGISEWER SEALING RINGS

Nominal size mm	Code	Pack qty
400	SRSW4008	2
450	SRSW4508	2
500	SRSW5008	2
600	SRSW6008	2
750*	SRSW750/1	1
900*	SRSW900/1	1

Seals are EPDM to EN681 Part 1 as standard.

KM 636505
BS EN 13476
WIS 4-35-01

RIDGISEWER NITRILE SEALING RINGS

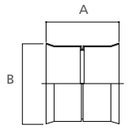
Nominal size mm	Code	Pack qty
400	SRSW400NT8 ▲	2
450	SRSW450NT8 ▲	2
500	SRSW500NT8 ▲	2
600	SRSW600NT8 ▲	2
750*	SRD750NIT/1 ▲	1
900*	SRD900NIT/1 ▲	1

▲ Made to order, subject to lead times and minimum order quantities. Typically used where soil contains certain chemicals. Please send soil reports to our Technical Team.

RIDGISEWER DOUBLE SOCKET COUPLINGS

Nominal size mm	Code	A mm	B mm	Pack qty
400	RSWC4008	410	490	1
450	RSWC4508	440	548	1
500	RSWC5008	490	605	1
600	RSWC6008	560	713	1
750*	RSWC750DS/1	-	-	1
900*	RSWC900DS/1	-	-	1

*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.



KM 636505
BS EN 13476
WIS 4-35-01

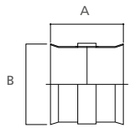
Ridgisewer Double Socket Couplings

Order seals separately.

RIDGISEWER DOUBLE SOCKET SLIP COUPLINGS

Nominal size mm	Code	A mm	B mm	Pack qty
400	RSWSC4008 ▲	392	490	1
450	RSWSC4508 ▲	420	548	1
500	RSWSC5008 ▲	470	605	1
600	RSWSC6008 ▲	540	713	1

▲ Made to order, subject to lead times and minimum order quantities.



KM 636505
BS EN 13476
WIS 4-35-01

Ridgisewer Double Socket Slip Couplings

Order seals separately.

RIDGISEWER END CAPS

Nominal size mm	Code	Pack qty
400	RSWEC4008 ▲	1
450	RSWEC4508 ▲	1
500	RSWEC5008 ▲	1
600	RSWEC6008 ▲	1
750*	RSWEC750/1 ▲	1
900*	RSWEC900/1 ▲	1

▲ Made to order, subject to lead times and minimum order quantities.

750 and 900 are not BBA approved

Ridgisewer End Caps

Order seals separately if required.

Ridgisewer 11.25° Bends

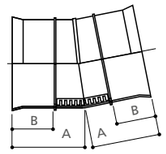
Order seals separately if required.

RIDGISEWER 11.25° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
400	RSWB40011.258	375	205	1
450	RSWB45011.258	415	220	1
500	RSWB50011.258	490	245	1
600	RSWB60011.258	535	280	1
750*	RSWB75011.25/1	-	-	1
900*	RSWB90011.25/1	-	-	1

*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.

750 and 900 are not BBA approved



Ridgisewer 22.5° Bends

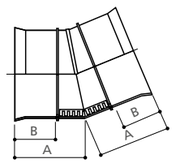
Order seals separately if required.

RIDGISEWER 22.5° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
400	RSWB40022.58	375	205	1
450	RSWB45022.58	415	220	1
500	RSWB50022.58	490	245	1
600	RSWB60022.58	535	280	1
750*	RSWB75022.5/1	-	-	1
900*	RSWB90022.5/1	-	-	1

*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.

750 and 900 are not BBA approved



Ridgisewer 45° Bends

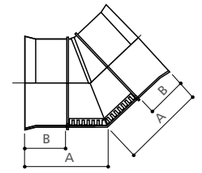
Order seals separately if required.

RIDGISEWER 45° BENDS

Nominal size mm	Code	A mm	B mm	Pack qty
400	RSWB400458	375	205	1
450	RSWB450458	415	220	1
500	RSWB500458	490	245	1
600	RSWB600458	535	280	1
750*	RSWB75045/1	-	-	1
900*	RSWB90045/1	-	-	1

*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.

750 and 900 are not BBA approved



Ridgisewer 90° Bends

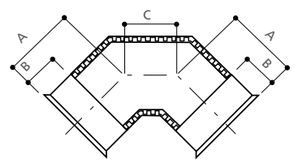
Order seals separately if required.

RIDGISEWER 90° BENDS

Nominal size mm	Code	A mm	B mm	C mm	Pack qty
400	RSWB400908	411	196	646	1
450	RSWB450908	441	215	667	1
500	RSWB500908	488	250	687	1
600	RSWB600908	533	275	728	1
750*	RSWB75090/1	-	-	-	1
900*	RSWB90090/1	-	-	-	1

*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.

750 and 900 are not BBA approved



Ridgisewer 45° Equal Junctions

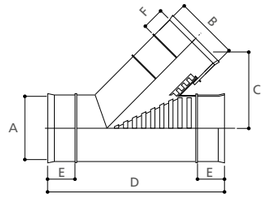
Order seals separately if required.

RIDGISEWER 45° EQUAL JUNCTIONS

Nominal size A mm	Nominal size B mm	Code	C mm	D mm	E mm	F mm	Pack qty
400	400	RSWEJ400Y8	1000	1737	205	205	1
450	450	RSWEJ450Y8	1050	1780	220	220	1
500	500	RSWEJ500Y8 ▲	1100	1930	245	245	1
600	600	RSWEJ600Y8	1309	2175	280	280	1
750*	750	RSWEJ750Y/1 ▲	-	-	-	-	1
900*	900	RSWEJ900Y/1 ▲	-	-	-	-	1

▲ Made to order, subject to lead times and minimum order quantities.
*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.

750 and 900 are not BBA approved



Ridgisewer 45° Unequal Junctions

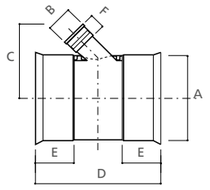
110 and 160mm branches are for EN1401 pipes. 150mm branches are for Polysewer.
Order seals separately if required.

RIDGISEWER 45° UNEQUAL JUNCTIONS

Nominal size A mm	Nominal size B mm	Code	C mm	D mm	E mm	F mm	Pack qty
400	110	RSWJ400110Y8	395	750	196	46	1
400	150	RSWPSJ400150Y8	435	750	196	51	1
400	160	RSWJ400160Y8	435	750	196	51	1
450	110	RSWJ450110Y8 ▲	422	815	215	46	1
450	150	RSWPSJ450150Y8	462	815	215	51	1
450	160	RSWJ450160Y8	462	815	215	51	1
500	110	RSWJ500110Y8	450	920	240	46	1
500	150	RSWPSJ500150Y8	490	920	240	51	1
500	160	RSWJ500160Y8	490	920	240	51	1
600	110	RSWJ600110Y8	503	1060	275	46	1
600	150	RSWPSJ600150Y8	543	1060	275	51	1
600	160	RSWJ600160Y8	543	1060	275	51	1
750*	110	RSWJ750110Y/1	-	-	-	-	1
750*	150	RSWPSJ750150Y/1	-	-	-	-	1
750*	160	RSWJ750160Y/1	-	-	-	-	1
750*	225	RSWPSJ750225Y/1 ▲	-	-	-	-	1
750*	300	RSWPSJ750300Y/1 ▲	-	-	-	-	1
750*	400	RSWJ750400Y/1 ▲	-	-	-	-	1
750*	450	RSWJ750450Y/1 ▲	-	-	-	-	1
750*	500	RSWJ750500Y/1 ▲	-	-	-	-	1
750*	600	RSWJ750600Y/1 ▲	-	-	-	-	1
900*	110	RSWJ900110Y/1 ▲	-	-	-	-	1
900*	150	RSWPSJ900150Y/1	-	-	-	-	1
900*	160	RSWJ900160Y/1	-	-	-	-	1
900*	225	RSWPSJ900225Y/1 ▲	-	-	-	-	1
900*	300	RSWPSJ900300Y/1 ▲	-	-	-	-	1
900*	400	RSWJ900400Y/1 ▲	-	-	-	-	1
900*	450	RSWJ900450Y/1 ▲	-	-	-	-	1
900*	500	RSWJ900500Y/1 ▲	-	-	-	-	1
900*	600	RSWJ900600Y/1 ▲	-	-	-	-	1
900*	750	RSWJ900750Y/1 ▲	-	-	-	-	1

▲ Made to order, subject to lead times and minimum order quantities.
*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.
Note: 110mm and 160mm sockets are for connection to EN 1401-1 solid wall pipes. 150mm, 225mm and 300mm sockets are for connection to Polysewer structured wall pipes.

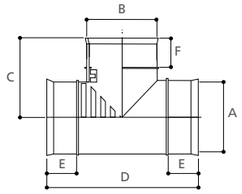
750 and 900 are not BBA approved



RIDGISEWER 90° EQUAL JUNCTIONS

Nominal size A mm	Nominal size B mm	Code	C mm	D mm	E mm	F mm	Pack qty
400	400	RSWEJ400T8	700	1380	205	205	1
450	450	RSWEJ450T8	805	1700	220	220	1
500	500	RSWEJ500T8 ▲	850	1792	245	245	1
600	600	RSWEJ600T8	1350	1975	280	280	1
750*	750	RSWEJ750T/1	-	-	-	-	1
900*	900	RSWEJ900T/1	-	-	-	-	1

▲ Made to order, subject to lead times and minimum order quantities.
*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.



750 and 900 are not BBA approved

Ridgisewer 90° Equal Junctions

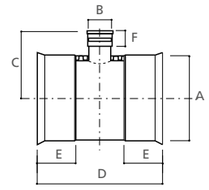
Order seals separately if required.

RIDGISEWER 90° UNEQUAL JUNCTIONS

Nominal size A mm	Nominal size B mm	Code	C mm	D mm	E mm	F mm	Pack qty
400	110	RSWJ400110T8 ▲	360	750	196	46	1
400	150	RSWPSJ400150T8	375	750	196	51	1
400	160	RSWJ400160T8 ▲	375	750	196	51	1
450	110	RSWJ450110T8 ▲	385	815	215	46	1
450	150	RSWPSJ450150T8	400	815	215	51	1
450	160	RSWJ450160T8 ▲	400	815	215	51	1
500	110	RSWJ500110T8 ▲	415	920	240	46	1
500	150	RSWPSJ500150T8 ▲	430	920	240	51	1
500	160	RSWJ500160T8 ▲	430	920	240	51	1
600	110	RSWJ600110T8 ▲	465	1060	275	46	1
600	150	RSWPSJ600150T8	480	1060	275	51	1
600	160	RSWJ600160T8 ▲	480	1060	275	51	1
750*	110	RSWJ750110T/1 ▲	-	-	-	-	1
750*	150	RSWPSJ750150T/1 ▲	-	-	-	-	1
750*	160	RSWJ750160T/1 ▲	-	-	-	-	1
750*	400	RSWJ750400T/1 ▲	-	-	-	-	1
750*	450	RSWJ750450T/1 ▲	-	-	-	-	1
750*	500	RSWJ750500T/1 ▲	-	-	-	-	1
750*	600	RSWJ750600T/1 ▲	-	-	-	-	1
900*	110	RSWJ900110T/1 ▲	-	-	-	-	1
900*	150	RSWPSJ900150T/1 ▲	-	-	-	-	1
900*	160	RSWJ900160T/1 ▲	-	-	-	-	1
900*	400	RSWJ900400T/1 ▲	-	-	-	-	1
900*	450	RSWJ900450T/1 ▲	-	-	-	-	1
900*	500	RSWJ900500T/1 ▲	-	-	-	-	1
900*	600	RSWJ900600T/1 ▲	-	-	-	-	1
900*	750	RSWJ900750T/1 ▲	-	-	-	-	1

▲ Made to order, subject to lead times and minimum order quantities.
*For 750-900mm dimensions, please contact our Technical Department on +44 (0)1509 615100.
Sizes 1050mm and above are available as Ridgistorm-XL.
Note: 110mm and 160mm sockets are for connection to EN 1401-1 solid wall pipes. 150mm, 225mm and 300mm sockets are for connection to Polysewer structured wall pipes.
Other sizes are available upon request, please contact us for further information.

750 and 900 are not BBA approved



Ridgisewer 90° Unequal Junctions

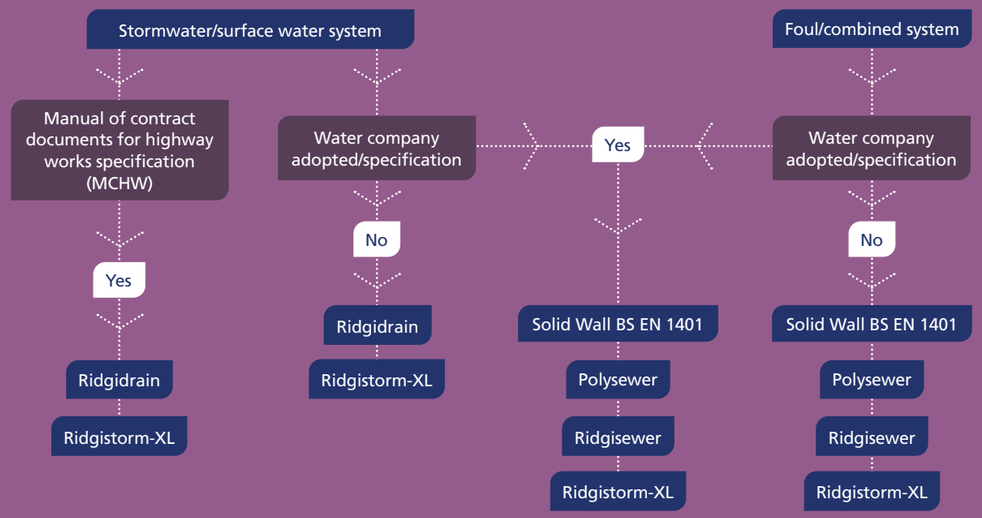
110 and 160mm branches are for EN1401 pipes. 150mm branches are for Polysewer.
Order seals separately if required.

RIDGISTORM-XL

RIDGISTORM-XL

Ridgistorm-XL is an innovative large-diameter piping system, available in sizes 750-3000mm in diameter. It can be used for a wide range of applications including surface water drainage, foul and combined sewers, large-scale flood-alleviation schemes and even displacement ventilation and renewable energy.

Polypipe Drainage Pipework Applications



A VERSATILE SOLUTION

Robust, reliable and long-lasting, Ridgistorm-XL is one of the most adaptable large diameter piping solutions in the UK. In fact, our technical experts can engineer exact stiffness classifications for the pipe system to meet variable loading specifications by analysing site conditions and installation parameters. They can also design fully bespoke fabrications tailored to suit project-specific requirements.

Ridgistorm-XL Key Benefits

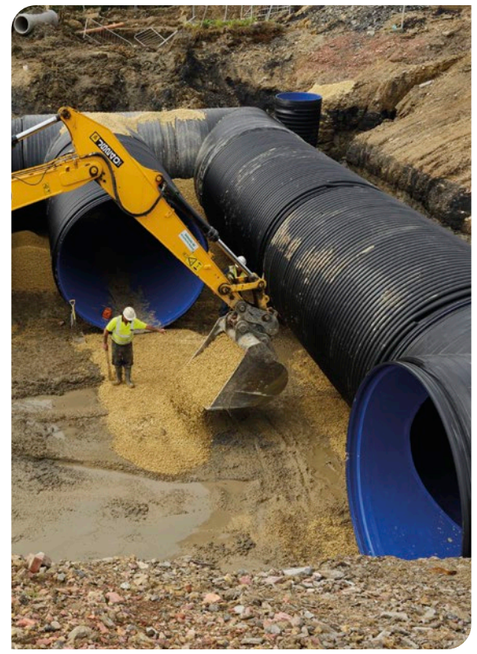
- Pipe lengths available from 1.25-12m
- Integrally socketed system to aid pipe alignment
- Pre-fabricated modularised system incorporating flow controllers and treatment devices, chambers and fittings
- Lighter in weight for reduced plant requirements
- Multiple jointing options include seal ring jointing, internal extrusion welding and electro-fusion welding
- Extremely durable – service lifetime expectancy in excess of 100 years
- Designed to optimum stiffness classification
- Excellent load-bearing capability
- Superior performance in areas of differential settlement
- Excellent resistance to sulphate and chemical attack
- Superior hydraulic performance achieved through smooth bore
- Saddles available for 150mm lateral pipe connections
- Pre-fabricated dry-weather low-flow channels available
- Pre-slinging available upon request
- Installation frames available for improved ease of jointing

- Water Company Approved for Capital Works projects and installation under Section 104 and Section 106 agreements*
- Compliant with MCHW, Volume 1, Series 500 (Specification for Highway Works)**
- AIP acceptance to Specification for highway works section one CG 300, technical approval of highway structures
- Structural calculations in accordance with BS EN 1295-1, which references BS EN 9295 the Structural Design Standard for Buried Pipelines
- WRc and BBA HAPAS approved
- Manufactured to meet the material requirements of BS EN 13476, Plastic Piping Systems for Non-Pressure Underground Drainage and Sewerage
- Compliant with the requirements of the Civil Engineering Specification for the Water Industry (CESWI)
- Compliant with the requirements of Sewerage Sector Guidance, Sewers for Scotland and Welsh Ministers Standards

*We would recommend that local water company approval is confirmed before a final design is complete.
**SHW Series 500 applies to 750 and 900mm only.

BBA APPROVAL INSPECTION TESTING CERTIFICATION CERTIFICATE No. 20/H294

wrc approved PT/348/0614



CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

Ridgistorm-XL Integrally Socketed Pipe

Ridgistorm-XL is our most advanced HDPE large-diameter plastic pipe solution, available in sizes from 750-3000mm. Suitable for surface water, sewerage and combined sewer applications, it is also a crucial component in SuDS and stormwater management solutions.

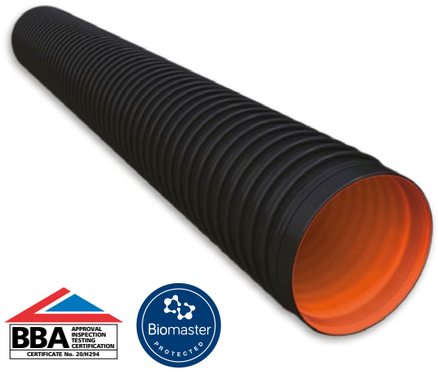
Ridgistorm-XL Integrally Socketed Pipe

RIDGISTORM-XL INTEGRALLY SOCKETED PIPE			
ID mm	Code**	Length mm ▲	Pack qty
750	RST072060(S or E*)	6	1
900	RST092060(S or E*)	6	1
1050	RST102060(S or E*)	6	1
1200	RST122060(S or E*)	6	1
1500	RST152060(S or E*)	6	1
1800	RST182060(S or E*)	6	1
2100	RST212060E	6	1
2400	RST242060E	6	1
2700	RST272060E	6	1
3000	RST302060E	6	1

*Ring sealed system (S) electrofusion welding or extrusion welding (E).
Please specify with order.
If a sealed system please order seals separately.
**Comes in SN2 stiffness classification as standard, but can be manufactured from SN2-SN16.
▲ Ridgistorm-XL comes in 6m lengths as standard, but is available in bespoke lengths from 1.25-12m. Please specify with order.

Ridgistorm-XL for Ventilation

Ridgistorm-XL pipes are increasingly being used as a displacement ventilation system conduit. Using the pipe as either an underground or above ground ventilation system, the Biomaster anti-microbial inner lining and EF or internal extrusion welding allows for excellent air quality. An earth tube system allows air temperature to be preconditioned before entering the building, with the air drawn into the system via air inlets. This passive technology enables the transfer of ground source energy to heat or cool ventilation air, whilst reducing energy requirements and carbon footprints.



Ridgistorm-XL Ventilation Pipe

RIDGISTORM-XL INTEGRALLY SOCKETED VENTILATION PIPE			
ID mm	Code*	Length mm ▲	Pack qty
750	RST072060EM	6	1
900	RST092060EM	6	1
1050	RST102060EM	6	1
1200	RST122060EM	6	1
1500	RST152060EM	6	1
1800	RST182060EM	6	1
2100	RST212060EM	6	1
2400	RST242060EM	6	1
2700	RST272060EM	6	1
3000	RST302060EM	6	1

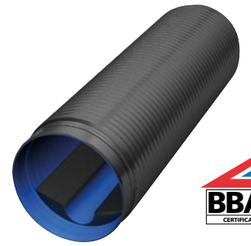
*Comes in SN2 stiffness classification as standard, but can be manufactured from SN2 - SN16.
▲ Ridgistorm-XL comes in 6m lengths as standard, but is available in bespoke lengths from 1.25-12mm. Please specify with order.

Ridgistorm-XL Low Flow Channel

Ridgistorm-XL Low Flow Channel (LFC) is designed for use in large- capacity surface-water or foul-tank sewers where a minimum self-cleansing velocity is required for low flows. The LFC concentrates the flow into a narrower channel, increasing the velocity and preventing any pooling, stagnation or settlement of solids within the piping system. In periods of high flow, the open channel will overflow, activating the full volume of the pipe. The LFC system is available for ring seal jointed pipes and fittings. There are three standard channel widths available (150, 225 and 300mm) to suit pipe diameters from 900-1800mm and pipe lengths 1.25-6m. For additional sizes, please contact our technical office.

RIDGISTORM-XL LOW FLOW CHANNEL PIPE			
ID mm	Code*	Length mm ▲	Pack qty
900	RST900LFC	6	1
1050	RST1050LFC	6	1
1200	RST1200LFC	6	1
1500	RST1500LFC	6	1
1800	RST1800LFC	6	1

*Please specify channel width upon ordering. Please order seals separately.
▲ Ridgistorm-XL comes in 6m lengths as standard, but is available in bespoke lengths from 1.25-6m. Please specify with order.



Ridgistorm-XL Low Flow Channel

Ridgistorm-XL Sealing Rings

RIDGISTORM-XL SEALING RINGS		
ID mm	Code	Pack qty
750	SRST750	1
900	SRST900	1
1050	SRST1050	1
1200	SRST1200	1
1500	SRST1500	1
1800	SRST1800	1

Note: please order x2 seals per pipe joint.

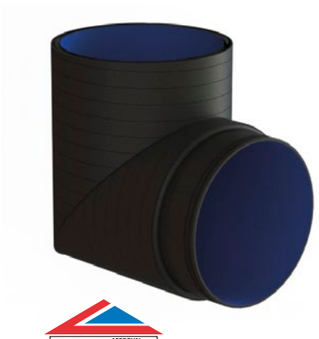
Ridgistorm-XL Sealing Rings

Plastic Tub of Lubricant

LUBRICANT		
Weight (kg)	Code	Pack qty
1	LUBX1	12
2.5	LUBX2.5	4

Plastic Tub of Lubricant

Ridgistorm-XL 90° Bends



Ridgistorm-XL 90° Bends

RIDGISTORM-XL 90° BENDS		
ID mm	Code**	Pack qty
750*	RST0720B90S	1
900*	RST0920B90S	1
1050*	RST1020B90S	1
1200*	RST1220B90S	1
1500*	RST1520B90S	1
1800*	RST1820B90S	1
2100	RST2120B90E	1
2400	RST2420B90E	1
2700	RST2720B90E	1
3000	RST3020B90E	1

Other bend angles are available. Please specify upon order.
*750 - 1800 can be supplied in with ring seal joints
*750 - 3000 can be supplied as EF joint or extrusion welded
Electrofusion welded or extrusion welded options are also available.
**Comes in SN2 stiffness classification as standard, but can be manufactured from SN2 - SN16..

Ridgistorm-XL C Equal Junctions

RIDGISTORM-XL C EQUAL JUNCTIONS		
ID mm	Code**	Pack qty
750*	RST0720CSES	1
900*	RST0920CSES	1
1050*	RST1020CSES	1
1200*	RST1220CSES	1
1500*	RST1520CSES	1
1800*	RST1820CSES	1
2100	RST2120CSEE	1
2400	RST2420CSEE	1
2700	RST2720CSEE	1
3000	RST3020CSEE	1

*750 - 1800 can be supplied in with ring seal joints.
*750 - 3000 can be supplied as EF joint or extrusion welded.
Electrofusion welded or extrusion welded options are also available.
**Comes in SN2 stiffness classification as standard, but can be manufactured from SN2 - SN16.

Ridgistorm-XL C Equal Junctions

Ridgistorm-XL T Equal Junctions

Ridgistorm-XL T Equal Junctions

RIDGISTORM-XL T EQUAL JUNCTIONS		
ID mm	Code**	Pack qty
750*	RST0720EJTS	1
900*	RST0920EJTS	1
1050*	RST1020EJTS	1
1200*	RST1220EJTS	1
1500*	RST1520EJTS	1
1800*	RST1820EJTS	1
2100	RST2120EJTE	1
2400	RST2420EJTE	1
2700	RST2720EJTE	1
3000	RST3020EJTE	1

*Sizes 750-1800mm come with pre-installed sealing rings.
Electrofusion welded or extrusion welded options are also available.
**Comes in SN2 stiffness classification as standard, but can be manufactured from SN2 - SN16.

Ridgistorm-XL F Equal Junctions

RIDGISTORM-XL F EQUAL JUNCTIONS		
ID mm	Code	Pack qty
750*	RST0720FSES*	1
900*	RST0920FSES *	1
1050*	RST1020FSES *	1
1200*	RST1220FSES *	1
1500*	RST1520FSES *	1
1800*	RST1820FSES *	1
2100	RST2120FSEE	1
2400	RST2420FSEE	1
2700	RST2720FSEE	1
3000	RST3020FSEE	1

*Sizes 750-1800mm come with pre-installed sealing rings.
Electrofusion welded or extrusion welded options are also available.

Ridgistorm-XL F Equal Junctions

Other fabrications include:

- E junctions
- Turrets
- Manifolds

Ridgistorm-XL Jointing Frames

The Ridgistorm-XL Jointing Frame is a multi-use tool for assisting the jointing of Ridgistorm-XL ring-sealed pipes in sizes 750-1800mm. They assist with the safe jointing of pipes by providing a flat surface for on-site construction machinery to apply a central force to push against, eliminating any damage to the end of the pipes and keeping the joining pipe square to the joint. They are constructed from steel with four built-in lifting points for safe handling on site.

Ridgistorm-XL Jointing Frame

RIDGISTORM-XL JOINTING FRAMES				
For pipe diameter mm	Code	Diameter mm	Weight kg	Material
750/900	RST750900PF*	1000	31	Steel
1050	RST1050PF	1400	38	Steel
1200	RST1200PF	1600	44	Steel
1500	RST1500PF	1800	100	Steel
1800	RST1800PF	2000	127	Steel

*Product suits both 750mm and 900mm diameter pipe.

Ridgistorm-XL Jointing Frames Key Benefits

- Assist with the safe and correct jointing of pipes
- Provide a flat surface for on-site construction machinery to apply a central force to push against
- Eliminate any damage to the end of the pipes and keep the joining pipe square to the joint
- Can be reused for other projects of the same pipe diameter

Ridgistorm-XL Saddles

wrc approved PT/425/0717

(For sizes 750-900mm)

Ridgistorm-XL Saddles

RIDGISTORM-XL SADDLES TO 150MM		
ID mm	Code	Pack qty
750	RSTSUA01	1
900	RSTSUA02	1
1050	RSTSUA03	1
1200	RSTSUA05	1
1500	RSTSUA08	1
1800	RSTSUA09	1
2100	RSTSUA14	1

Ridgistorm-XL Flat Tank Ends

Ridgistorm-XL Flat Tank Ends can be incorporated into Ridgistorm-XL pipes from 900-1800mm. They prevent the need for an upturned bend at the end of the pipe run, allowing for a smaller access turret to be used within the system. Ridgistorm-XL Flat Tank Ends should be installed within Ridgistorm-XL pipes no longer than 5.5m and with a minimum stiffness classification of SN2.

RIDGISTORM-XL FLAT TANK ENDS	
ID mm	Code
900	RSTTE09
1050	RSTTE10
1200	RSTTE12
1500	RSTTE15
1800	RSTTE18

Ridgistorm-XL Flat Tank Ends

CHAMBERS

CHAMBERS

We have an extensive range of ready-to-install pre-fabricated chamber solutions, offering a wide breadth of benefits that will not only ensure undertaking your project is more effective and efficient, but will also result in measurable cost savings.

Off-site construction

Providing a comprehensive service through our in-house fabrication facility, we are able to create fully engineered solutions to precisely match specific project requirements. Whether you require a one-piece manhole, catchpit, flow control device or treatment filter, our team can engineer the right system accurately and to the highest quality.

Seamless integration

Our pre-fabricated solutions are designed to integrate seamlessly within existing drainage or water-management systems, including our Ridgidrain, Polysewer, Ridgisewer, Polystorm or Ridgistorm-XL systems, or can be engineered to connect to other materials.

Chamber options

RIDGISTORMAccess:
Provides easy access into and maintenance of a pipeline.

RIDGISTORMControl:
Facilitates the inclusion of control devices into a drainage or sewer systems.

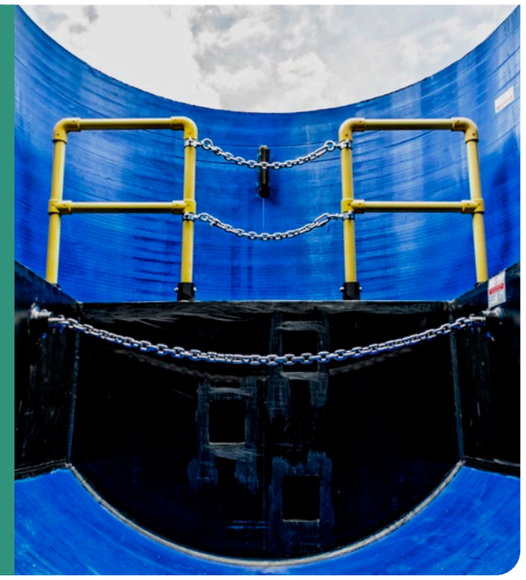
RIDGISTORMCheck:
Controls flows within a drainage system which are required to be limited or checked (e.g. prior to discharge from site).

RIDGISTORMSeparate:
Captures and separates out silt particles, debris, metals or hydrocarbons, from a drainage system, protecting downstream elements.

Our modern methods of manufacturing ensure all of our chambers are delivered directly to site ready to be installed, minimising health and safety risks during handling, storage and installation.

Chambers Key Benefits

- Tailor-made, fully-welded, watertight structured wall chambers to suit project-specific requirements
- One-piece installation, off-site construction – delivered ready to install, reducing installation time and costs
- Strong but light in weight, minimising health and safety risks in handling and installation
- Manufactured in a factory-controlled environment for improved quality of finish
- Eliminates wastage associated with in situ construction
- Ridgistorm-XL chambers are WRc approved and BBA approved
- Can be pre-slung and lifting points



Creating your perfect chamber system:

1. Select chamber
2. Select pipe connections
3. Select ancillaries

Other Ridgistorm-XL fabricated solutions available include:

- Bends
- Junctions
- Reducers
- Dual-run H chambers
- Turrets
- Off-set chambers

wrc approved PT/348/0614

BBA

For Ridgistorm-XL chambers 750-3000mm.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

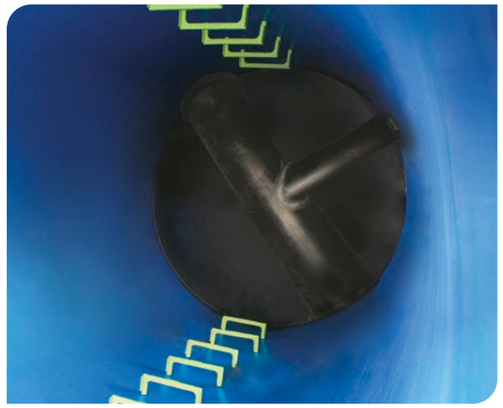
RIDGISTORMACCESS MANHOLES

Whether your project calls for stormwater, foul-water or combined sewer systems, we can manufacture high-density polyethylene (HDPE) prefabricated manholes, to provide easy access into and maintenance of a pipeline. RIDGISTORMAccess Manholes are utilised where pipe runs change direction, combine or change invert level, diameter or pipe material.

RIDGISTORMAccess Manholes Key Benefits

- Provides easy access for maintenance
- Can be manufactured to adoptable standards
- Full range of accessories available including Toe Holds, Safety Chain Assembly and Guardrail Assembly
- Multiple inlet and outlet options, allowing quick and seamless connection to pipeline
- Depths can be tailored to suit project requirements
- Factory-installed, high-quality integral benching
- Step rungs to BS EN 13101 and ladders to BS EN 14396
- Integral lifting points available on request to improve health and safety of handling and installation

ELEMENT	VALUE
Physical properties	
Diameter mm	900-3000
Depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Loading	Determined by structural design
Chemical resistance	HDPE is naturally resistant to most chemicals naturally found in stormwater run-off and uncontaminated ground
Inlets/outlets mm	100-3000



Applications

RIDGISTORMAccess Manholes are engineered for use in stormwater, foul and combined sewer applications to enable access to the pipework system for inspection and maintenance. Factory-installed, preformed benching and channelling is available to spring line (SHW) or soffit (SFA) depending on the specification required. RIDGISTORMAccess Manholes can be prefabricated with a number of features to reduce the need for direct access into the pipe, such as an offset channel, or maximising step landing width, or to minimise operational health and safety risks with the prefabrication of Toe Holds, Safety Chain Assembly and Guardrail Assembly

Compatibility

RIDGISTORMAccess Manholes can be integrated into our surface water (Ridgidrain and Ridgistorm-XL) and sewer (Polysewer, Ridgisewer and Ridgistorm-XL) pipework systems, or engineered to connect to other pipe materials.

Performance

RIDGISTORMAccess Manholes are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

RIDGISTORMCONTROL PENSTOCK AND VALVE CHAMBERS

Where a drainage or sewer system design requires the inclusion of control devices to limit or isolate flows, our range of RIDGISTORMControl Chambers is available with pre-installed Penstocks, Flap Valves and Gate Valves.

Penstock

Flap Valve

Gate Valve

RIDGISTORMControl Chambers are typically supplied as single units, manufactured in factory-controlled conditions to improve the quality of finish and eliminate wastage associated with in-situ construction.

Applications

Our pre-fabricated RIDGISTORMControl Chambers incorporate a range of flow control devices to limit or isolate flows within surface water, sewer and combined sewer systems.

Typical valves include:

Penstocks

Penstocks consist of a gate which can isolate or control water flow. The gate can also be used as a flow control device to limit the flow of water passing through the system.

Flap Valves

Flap Valves are non-return hinge valves to prevent backflow upstream. They can also be used for outflow applications such as ponds, ditches, swales and tidal.

Gate Valves

Gate Valves are used to permit or prevent the flow of water and can isolate drainage sections. The valve opens by lifting a wedge out of the path of the flow of water.

Performance

RIDGISTORMControl Penstock and Valve Chambers are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

RIDGISTORMControl Penstock and Valve Chamber Key Benefits

- Facilitates maintenance, controls system flows and protects the drainage system from surcharging
- System components available include Penstocks, Flap Valves and Gate Valves
- Multiple inlet and outlet options, allowing quick and seamless connection to pipeline
- Chamber depths are tailored to suit project requirements
- Step rungs to BS EN 13101 and ladders to BS EN 14396
- Integral lifting points available on request to improve health and safety of handling and installation

ELEMENT	VALUE
Physical properties	
Diameter mm	900-3000
Depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Loading	Determined by structural design
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	100-3000

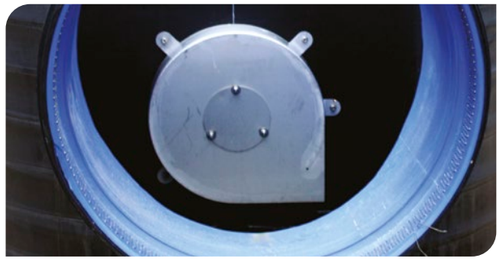
RIDGISTORMCHECK VORTEX FLOW CONTROL CHAMBER

Where flows within a drainage system are required to be limited or checked (i.e. prior to discharge from site), with improved hydraulic performance and reduced maintenance, we are able to offer our RIDGISTORMCheck Vortex Flow Control Chamber.

RIDGISTORMCheck Vortex Flow Control Chamber Key Benefits

- Self-activating vortex flow controller which controls forward flow of water
- No moving parts – virtually maintenance free
- Manufactured with an integral sump for silt catchment/removal
- Can be manufactured to adoptable standards
- Multiple inlet and outlet options, allowing quick and seamless connection to pipelines
- Depths can be tailored to suit project requirements
- Step rungs to BS EN 13101 and ladders to BS EN 14396
- Integral lifting points available on request to improve health and safety during handling and installation

ELEMENT	VALUE
Physical properties	
Diameter mm	1050-3000
Depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Flow control units	Grade 304 Stainless Steel
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	100-3000
Hydraulic performance	Vortex flow control unit to suit site-specific flow rates and hydraulic head



Pre-fabricated under factory-controlled conditions, our RIDGISTORMCheck Chamber is available in a range of diameters from 1050-3000mm and incorporates a vortex flow control unit fitted onto a preformed headwall. Each vortex flow control unit is manufactured to suit the unique hydraulic characteristics of the site's drainage system design. RIDGISTORMCheck Vortex Flow Control Chambers are typically supplied as a single unit, allowing simple installation and eliminating a number of construction risks associated with in-situ construction. When installed in conjunction with our range of pipe systems, they offer a fully integrated drainage system.

Applications

Site-specific RIDGISTORMCheck Vortex Flow Control Chambers are engineered to suit a range of stormwater systems, providing a hydraulically efficient means of flow regulation that does not use moving parts or require power to operate.

Performance

RIDGISTORMCheck Vortex Flow Control Chambers are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

Manual Bypass Design

The manual bypass design offers a bypass to the flow control device to facilitate maintenance. Manually operated from the surface, the activation of the bypass system opens a door in the head-wall allowing water in the chamber to drain down via the bypass pipe.

Non-Bypass Chamber

For sites where discharge rates must be guaranteed to not exceed a prescribed limit(s), non-bypass units are available.

RIDGISTORMCHECK ORIFICE PLATE FLOW CONTROL CHAMBER

Where flows within a drainage system are required to be limited or checked (i.e. prior to discharge from site), in a simple and cost-effective design, we are able to offer our RIDGISTORMCheck Orifice Plate Flow Control Chamber. Incorporating an integral orifice plate flow control with an optional removable Permavoid filter unit wrapped in a 2mm polyethylene mesh to provide filtration and ease of maintenance.

RIDGISTORMCheck Orifice Plate Flow Control Chamber offers a cost-effective means of limiting flows, particularly when used in conjunction with our range of attenuation systems on smaller-scale projects.

Applications

Site-specific RIDGISTORMCheck Orifice Plate Flow Control Chambers are engineered to suit a range of stormwater attenuation and infiltration systems, providing a means of flow regulation, and are used regularly when designing to source-control principles. The optional filter unit on the outlet provides a filtration system for reduced maintenance.

Performance

RIDGISTORMCheck Orifice Plate Flow Control Chambers are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

RIDGISTORMCheck Orifice Plate Flow Control Chamber Key Benefits

- Manufactured with an integral sump for silt retention
- One-piece installation, off-site construction, delivered ready to install, reducing installation time and costs
- Multiple inlet and outlet options, allowing quick and seamless connection to pipeline
- Depths can be tailored to suit project requirements
- Step rungs to BS EN 13101 and ladders to BS EN 14396
- Integral lifting points available on request to improve health and safety of handling and installation

ELEMENT	VALUE
Physical properties	
Diameter mm	500-3000
Depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	100-3000
Hydraulic performance	Orifice plate to suit site-specific flow rates and hydraulic head

RIDGISTORMSILT TRAPS

Located upstream of retention, attenuation and infiltration drainage systems, RIDGISTORM-Separate Silt Traps capture and retain silt and separate out other particles by encouraging settlement in the unit sump, minimising ingress into sustainable drainage systems (SuDS). These of small diameter silt traps are standard stock items and are readily available.

Mini Silt Trap

Advanced silt trap

Basic Silt Trap

Silt Traps Key Benefits

- Improves water quality by removing silt, grit and litter, protecting downstream elements of the drainage systems
- Self cleansing
- Minimises the ingress of debris, silt and litter into the structure

Applications

For use in stormwater drainage systems typically located upstream of retention, attenuation and infiltration drainage elements to protect the ingress of silt and other particles.

PHYSICAL PROPERTIES	MINI	BASIC	ADVANCED
Nominal diameter mm	320	460	460
Depth mm	440	1220	830
Inlet and Outlet mm	110 (BS EN 1401-1)	160 (BS EN 1401-1)	160 (BS EN 1401-1)
Sump depth mm	250	420	280
Material	Polypropylene	Polypropylene	Polypropylene
Colour	Black chamber	Black chamber	Black chamber
Chemical resistance	Polypropylene is resistant to the most chemicals associated with stormwater drainage systems	Polypropylene is resistant to the most chemicals associated with stormwater drainage systems	Polypropylene is resistant to the most chemicals associated with stormwater drainage systems

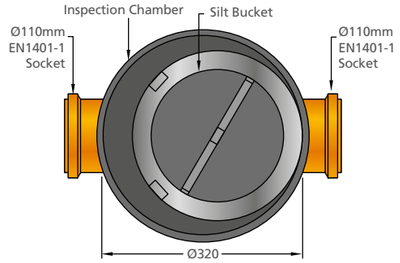
Note: For a Basic Silt Trap risers and seals are required. The bucket and filter are easily removable from the Advanced Silt Trap to enable cleaning.

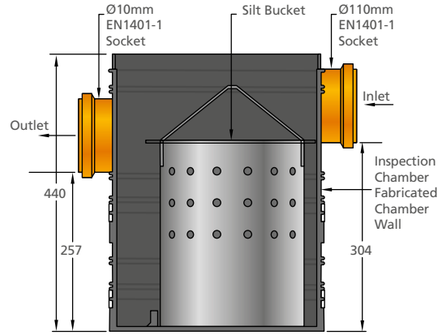
SILT TRAP ASSOCIATED PRODUCTS

Product	Description	Code
Polypropylene 320mm cover and frame (round)	320mm sealed screw down cover and frame, includes seals and fixing screws [A15}	UG501
Polypropylene 320mm cover and frame (square)	320mm square plastic cover with PP frame, includes seals and fixing screws [A15}	UG502
460mm silt trap cover and frame (round)	Round cover complete with seals and fixing screws (35kN test load)	UG511
460mm silt trap cover and frame (square)	Reduced access square PP cover and frame with seals and fixing screws [A+]	UG510
Chamber riser section	Silt trap side riser (215mm effective height)	ICDR1
Silt trap sealing ring	460mm riser sealing ring	UG488

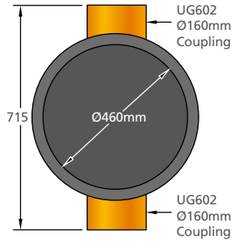
Note: Polypropylene (PP)

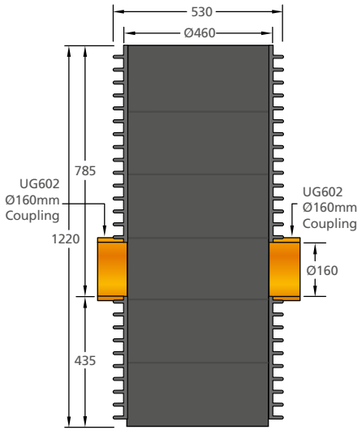
Mini Silt Trap
Product code: PSMST110



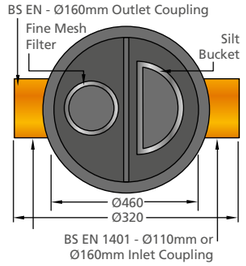


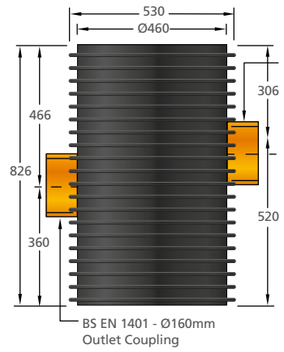
Basic Silt Trap
Product code: PSMST160

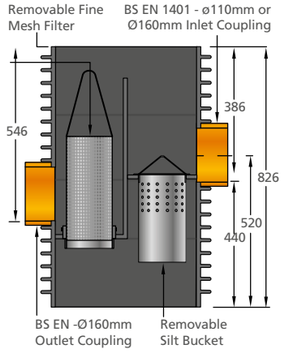




Advanced Silt Trap
Product code: PSMST160/15







RIDGISTORMSEPARATE MINI & BASIC CATCHPITS

Our purpose-built high-density polyethylene (HDPE) pre-fabricated catchpits are ideal for stormwater and land drainage applications and are the simplest and most cost-effective way of separating out silt and debris, providing an easily maintainable drainage system and helping to protect the downstream drainage system and local environment.

RIDGISTORMSeparate Catchpits are designed to separate silt and other particles from stormwater, helping to protect the downstream drainage system and local environment. They can be integrated into our range of pipe systems, such as Ridgidrain and Ridgistorm-XL, to offer a fully integrated drainage system.

Applications

RIDGISTORMSeparate Catchpits are pre-fabricated for use in a range of stormwater systems requiring silt and debris separation and retention.

Performance

RIDGISTORMSeparate Mini Catchpits are manufactured from Ridgidrain pipework, which meets the requirements of MCHW Series 500 Cause 518. RIDGISTORMSeparate Basic Catchpits are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

ELEMENT	VALUE
Physical properties	
Diameter mm	Mini 450-600 Basic 750-3000
Depth	To suit requirements
Sump depth	To suit (min. 50mm)
Material	HDPE
Colour	Black with blue interior
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	100-3000

RIDGISTORMSeparate Catchpits Key Benefits

- Provides easy access for silt collection
- Network Rail Parts and Drawing System (PADS) approved for use in CESS areas
- Separates silt and debris from the downstream drainage system
- Fully welded, watertight structured wall chambers to suit project-specific requirements
- One-piece installation, off-site construction, delivered ready to install, reducing installation time and costs
- Multiple inlet and outlet options, allowing quick and seamless connection to pipeline
- Depths can be tailored to suit project requirements
- Step rungs to BS EN 13101 and ladders to BS EN 14396*
- Integral lifting points available on request to improve health and safety of handling and installation*

*For catchpits 1050mm or larger

RIDGISTORMSEPARATE ADVANCED CATCHPITS

RIDGISTORMSeparate Advanced Catchpits incorporate both a sump and removable filter unit on the chamber outlet to capture silt and debris. The filter unit is easily removed for maintenance purposes.

RIDGISTORMSeparate Advanced Catchpits can be integrated into our range of pipe systems, such as Ridgidrain and Ridgistorm-XL, to offer a fully integrated drainage system.

Applications

RIDGISTORMSeparate Advanced Catchpits are prefabricated for use in a range of stormwater systems requiring silt and debris separation.

Performance

RIDGISTORMSeparate Advanced Catchpits are fabricated from Ridgistorm-XL pipework, which is manufactured to meet the material requirements of BS EN 13476.

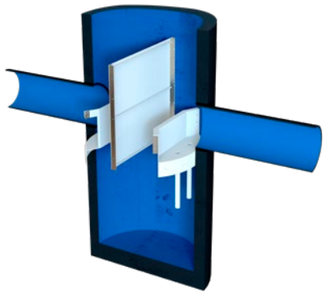
ELEMENT	VALUE
Physical properties	
Diameter mm	500-3000
Depth	To suit requirements
Sump depth	To suit requirements
Material	HDPE
Colour	Black with blue interior
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	100-3000

RIDGISTORMSeparate Advanced Catchpits Key Benefits

- Washable filter unit
- Multiple inlet and outlet options, allowing quick and seamless connection to pipeline
- Depths can be tailored to suit project requirements
- Step rungs to BS EN 13101 and ladders to BS EN 14396
- Integral lifting points available on request to improve health and safety of handling and installation

SCICLONEX

SciCloneX is a highly efficient hydrodynamic separation system to treat surface water run-off in urban areas. Thanks to a unique twin cyclone design and extended flow path, SciCloneX provides effective all-in-one treatment for total Suspended Solids (TSS), oil separation and the capture and retention of gross pollutants. It can achieve up to 80% and 99% effectiveness at removing TSS and oil respectively and has been tested to internationally recognised standard test protocols (NJCAT and NJDEP).



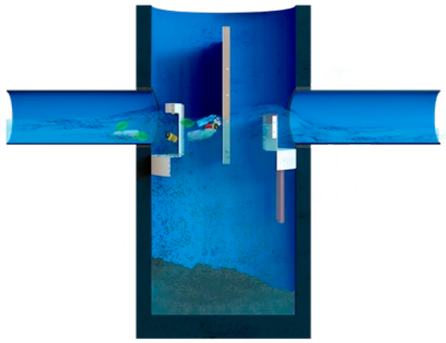
SCICLONEX

Product code	Chamber diameter	In/outlet diameter (mm)	Treatment flow rate – fine (l/s)*	Treatment flow rate – coarse (l/s)**	Maximum peak flow rate (l/s)	Minimum oil storage capacity (l)	Minimum sediment capacity (m^2)	Maximum headloss at treatment flow rate coarse (mm)	Standard overall chamber depth (mm)	Standard top of chamber to in/outlet invert level (mm)	Maximum chamber depth (mm)
SCX1200300	1200	300	51	47	555	29	0.7	153	2600	1100	5500
SCX1800450	1800	450	115	105	835	66	1.6	174	2900	1400	5500
SCX2400600	2400	600	205	188	1682	118	2.8	196	4036	1700	5500
SCX3000750	3000	750	321	293	2874	185	4.4	217	4493	1700	5500

Other in/outlet diameters available on request
Chambers available with depth between Standard and Maximum to suit project-specific design levels
*Based on sediment with a mean particle size of 63 microns and an annualised weighted TSS removal of at least 50%
**Based on sediment with a mean particle size of 112 microns and an annualised weighted TSS removal of at least 80%

Applications:

SciCloneX is suitable for use in all applications where the treatment of stormwater is required to protect downstream watercourses and enhance biodiversity. The robust Ridgistorm-XL chamber housing the treatment elements allows the system to be installed in both non-loaded and trafficked areas, ensuring a solution is available to suit all project requirements.



Key Benefits:

- Available in 1200, 1800, 2400 and 3000mm diameters
- BBA HAPAS approved chamber with pre-installed fittings
- Treatment levels tested to industry leading NJDEP protocols
- Captures free-floating oils and gross pollutants
- Removes up to 80% of Total Suspended Solids (TSS)
- Retains sediment bound metals and hydrocarbons
- Extremely durable plastic construction with no moving parts
- Design life in excess of 100 years
- Easy to inspect and maintain

SUDS MITIGATION DATA

Tss	Metals	Hydrocarbons
0.5	0.4	0.5
Tss	**Metals**	**Hydrocarbons**
0.5	0.4	0.5

RIDGISTORM-XL LIFTING POINTS

The range of Ridgistorm-XL Lifting Points have been designed specifically to aid in the safe handling of Ridgistorm-XL chambers when loading, off-loading and installing the products on-site. The lifting points consist of three plastic lugs, which are pre-welded into a Ridgistorm-XL chamber by our in-house Fabrication Team. They also require a minimum chamber height of 1500mm.

RIDGISTORM-XL LIFTING POINTS

Physical properties	Standard lifting points	Extended lifting points	Heavy duty lifting points
Product code	RSTLP	RSTELP	RSTHLP
Pipe diameter mm	1050-1800	2100-3000	2100-3000
Safe working load kg	1500	1500	2500

- For any asymmetrical chambers, additional slings or other suitable lifting equipment will be needed to prevent the chamber swinging during the lift
- The designated competent person must have read and understood our Ridgistorm-XL Chamber Lifting Instruction and Guidance document before commencing with any lift of this product
- All packaging should be removed from the product prior to any lift being carried out
- The lifting of this product must only be conducted utilising all three or more lifting points, with additional slings or other lifting devices where deemed necessary

Important

1. This document should be read in conjunction with the latest edition of the Polypipe Ridgistorm-XL Lifting guidance document.
2. The lift supervisor must assess and plan the chamber lift, in the circumstances of the lift. Where the construction of the chamber results in an off-centre load the chamber will rotate from level when only lifted by the three points provided. In these circumstances the lift supervisor must use additional slings and/or other controls where deemed necessary to ensure a safe and level lift.
3. Polypipe is not liable for any lift carried out by a third party.

Lifting Points Key Benefits

- Installed off-site to ensure leak tightness
- Three lifting points per chamber provide stability during handling
- Fail-safe design
- Lifting points are external to the chambers to reduce the health and safety risks of working in confined spaces
- Can be used as anti-flotation devices to stop the chamber floating during concrete filling
- The lugs can be removed after installation without compromising the leak tightness of the chamber

RIDGISTORM-XL CHAMBER ANCILLARIES

Guardrail Assembly Key Benefits

- Compliant with Sewers for Adoption and MCHW F Series
- Prevents site workers from accidentally falling into the outflow channel
- Pre-fabricated into the chamber, delivered to site as a one-piece modular unit ready to install

Guardrail Assembly

Ridgistorm-XL Guardrail Assemblies can be pre-installed into our RIDGISTORMAccess Manholes with an outflow pipe greater than 600mm, to act as a safety barrier. The Guardrail Assembly consists of three components:

- Guardrail attachment points
- Chain gates
- Pre-assembled Guardrail

GUARDRAIL ASSEMBLY	
Description	**Material**
Guardrail	GRP
Attachment points	HDPE
Chain gate	316-Graded stainless steel and galvanised stainless steel brackets

GUARDRAIL	
Description	**Dimensions**
Guardrail height	1100mm from benching
Chain gate	750mm wide
Max. distance between stanchion	1500mm
Min. benching thickness	20mm

Safety Chain Assembly Key Benefits

- Compliant with Sewers for Adoption and MCHW F Series
- Secured across the outflow pipe
- Prevents site workers from being swept down the outflow pipe whilst in the manhole
- 30kN breaking strength
- Pre-fabricated into the chamber, delivered to site as a one-piece modular unit ready to install

Safety Chain Assembly

Ridgistorm-XL Safety Chain Assemblies are securely fixed into RIDGISTORMAccess Manhole outflow pipes greater than 600mm, acting as a lifeline if a worker was to accidentally fall into the outflow pipe whilst in the manhole. The Safety Chain Assembly is positioned as close to the end of the channel as possible, allowing the worker to hold onto the chain to prevent being carried further into the system.

SAFETY CHAIN ASSEMBLY		
Description		**Material**
Plastic lugs and reinforcement		High density polyethylene
Safety chain and pin		316 grade stainless steel
Bolts and nuts		A4-70
10mm short link chain (per m)	2	316 grade stainless steel
Attachment point x 1	0.83	High density polyethylene
Steel pin	0.90	316 grade stainless steel

Steps & Ladders

Access to Ridgistorm-XL chambers and manholes can be facilitated by incorporating either step rungs or ladders. Steps are attached within a Ridgistorm-XL Chamber with the use of bolts. A leak-tight option is also available. Ladders are attached within a Ridgistorm-XL Chamber with the use of ladder brackets and foot brackets, which are secure and leak tight.

Ladders & Steps Key Benefits

- Step rungs compliant to BS EN 13101
- Ladders compliant to BS EN 14396
- Corrosion resistant
- Ladders are 1200mm minimum, steps are 1050mm
- Chambers delivered to site as a one-piece modular unit ready to install

Toe Holds

Ridgistorm-XL Toe Holds act to create a step within the channel wall, and are designed to provide safe and secure assistance for maintenance personnel when accessing or exiting a chamber channel. Toe Holds are required in adoptable chambers with outflow diameters of 600mm or greater, and in Highway Works chambers with outflow diameters of 500mm or greater.

Toe Holds Key Benefits

- Compliant with Sewers for Adoption and MCHW F Series
- Designed to complement our existing RIDGISTORMAccess Manholes
- Welded components, structurally integrated into the channel, ensure a water-tight connection and chamber integrity
- Toe Holds are installed flush with the inside of the channel to ensure hydraulics are maintained
- Manufactured and fitted in a quality controlled environment prior to delivery to site, ensuring a high quality finish and increased health and safety benefits
- Corrosion resistant, offering excellent chemical resistance to all common substances found in stormwater

SPECIFICATION	
Nominal outflow diameter (mm)	**Total number of toe holds**
600	1
750	2
900	2
1050	3
1200	3
1500	4
1800	5

RIDGIDRAIN INSPECTION CHAMBERS

Ridgidrain Inspection Chambers are a range of 320mm and 460mm modular polypropylene inspection chambers. All of the chambers are formed with a pre-benched base, side risers, seals and cover and frames. They provide a method of non-worker entry access to non-adoptable surface water drains for inspection and maintenance purposes.

BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 89/2206

600MM INSPECTION CHAMBERS POLYSEWER ADOPTABLE INSPECTION CHAMBERS		
Description	**Code**	**Pack qty**
600mm chamber base straight channel and single inlet for 110/150/160mm pipes	IC6BS6	1
600mm chamber base straight channel and three inlets including 2 x 90˚ equal branch inlets for 110/150/160mm	IC6CRS6	1
150/160mm base Adapter to 150mm Polysewer	IC6PS6	1
150/160mm base Adapter to 160mm BS EN 1401 Underground pipe	IC6UG6	1
150/160mm base Adapter to 110mm BS EN 1401 Underground pipe	IC6UG6	1
150/160mm base end cap to seal unused inlets on IC6BS6 and IC6CRS6	IC6EC6	1
600mm chamber base straight channel and three inlets including 2 x 90˚ equal branch inlets for 110/150/160/225 250mm pipes	IC6CRS10	1
225/250mm base adapter to 150mm Polysewer	IC6APS106	1
225/250mm base Adapter to 225mm Polysewer	IC6PS10	1
225/250mm base Adapter to 250mm BS EN 1401Underground pipe	IC6UG10	1
IC600 225/250mm base end cap to seal unused inlets on IC6CRS10 base	IC6EC10	1
IC600 225/250mm base Adapter to 110mm BS EN 1401 Underground pipe	IC6AUG104	1
IC600 225/250mm base Adapter to 160mm BS EN 1401 Underground pipe	IC6AUG106	1
600mm chamber base straight channel for use with 300mm Polysewer pipe	IC6BS12	1
600mm chamber base straight channel and two equal 90° branch entries, for use with for use with 300mm Polysewer pipe	IC6CRS12	1
300/315mm base Adapter to 300mm Polysewer pipe	PS12102	1
300/315mm base 315mm End Cap/Socket Plug to seal unused inlets on IC6BS12 or IC6CRS12 base	UG1220	1
Riser shaft SN8 3m plain end for IC600 Base	RSW600X3PE8	1
Riser cap (can be adapted for reduced access for chamber depths of greater than 1.2m)	IC6RC	1
Riser Ring Seal (required for base to riser and cap to riser connections)	SRSW6008	1

460MM NON-ADOPTABLE INSPECTION CHAMBERS	
Description	**Code**
460mm chamber base with 100mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 100mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adaptors and seals, 3 x 110mm blanking plugs and base – 220mm high)	UG440A
460mm chamber base with 150mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 150mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adaptors and seals, 2 x 110mm and 2 x 160mm blanking plugs and base – 258mm high)	UG670A
460mm side riser (215mm high)	UG431
460mm riser sealing ring	UG488
460mm square polypropylene cover and 65mm deep frame [A+] (c/w seal, fixing screws and 350mm restrictor ring)	UG510
460mm square ductile iron cover and frame [B125]	UG513

BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 89/2206

320MM NON-ADOPTABLE INSPECTION CHAMBERS	
Description	**Code**
320mm chamber base with 100mm Ridgidrain main channel and 2 x 100mm Ridgidrain 45° inlets (inc. 4 Ridgidrain pipe adaptors and seals, 2 x 110mm blanking plugs and base – 170mm high)	UG437A
320mm chamber base with 100mm Ridgidrain main channel, 2 x 100mm Ridgidrain 45° inlets and 2 x 100mm Ridgidrain 90° inlets (inc. 6 Ridgidrain pipe adaptors and seals, 3 x 110mm blanking plugs and base – 170mm high)	UG537A
320mm side riser (135mm high)	UG438
320mm riser sealing ring	UG388
320mm square PVC cover and frame [C] (c/w seal and fixing screws)	UG502

Note:
A+ = Tested to withstand 35kN test load (Light vehicular traffic)
C = Tested to withstand 10kN test load (Non vehicular traffic)
B125 = Class B125 load category of BS EN 124-1:2015 (Light vehicular traffic)

POLYSTORM CATCHPITS

The Polystorm Catchpit is a prefabricated 600mm catchpit, used as part of a Polystorm system. It is an easily maintainable and cost-effective way of protecting the downstream sustainable drainage system (SuDS). It is designed to separate silt and debris, helping to protect the Polystorm Geocellular system and reducing tank maintenance activities.

The catchpit is 1.5m high, including a 300mm sump. There are three inlet/outlet sizes available in 150mm, 225mm and 300mm. The catchpit is supplied with pre-installed water tight end caps on each inlet/outlet. An optional 600mm to 350mm reduced access cap can be supplied; please order separately.

Applications

Polystorm Catchpits are designed to be installed upstream of a Polystorm tank. They minimise the volume of silt and debris entering the tank by encouraging settlement within the sump, reducing maintenance activities. A flange adapter will be required to join the spigot of the catchpit to the Polystorm tank.

POLYSTORM CATCHPITS		
Inlet/outlet size mm	**Number of inlets/outlets**	**Code**
150	3	CP60015150
225	3	CP60015225
300	2	CP60015300

ANCILLARY PRODUCTS	
Description	**Code**
Polystorm 600mm to 350mm reduced access cap	PSMC-R
150mm Polystorm Flange Adaptor	PSMFA150
225mm Polystorm Flange Adaptor	PSMFA225
300mm Polystorm Flange Adaptor	PSMFA300

ELEMENT	VALUE
Physical properties	
Diameter mm	600
Depth m	1.5
Sump depth mm	300
Material	HDPE
Colour	Black with blue interior
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	150, 225, 300

Polystorm Catchpits Key Benefits

- High-quality off-site fabricated catchpits, eliminates wastage associated with in situ construction
- One-piece catchpit reduces installation time and minimises health and safety risks
- Separates silt and debris from the downstream drainage system
- Provides easy access for maintenance activities
- Inlets and outlets supplied with integral spigots allowing quick and seamless connection to pipeline
- All inlet/outlet spigots are supplied with watertight end caps
- An optional 600mm to 350mm diameter reduced access cap can be supplied, increasing health and safety during inspection

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

QPIT TYPE 8 CATCHPITS

Qpit Type 8 Catchpit is a prefabricated 600mm catchpit, used for highways applications. It is an easily maintainable and cost-effective way of protecting downstream drainage systems by separating out silts and debris.

The catchpit is 1.5m high, including a 300mm sump. There are three inlet/outlet option sizes available in 150mm, 225mm and 300mm. The catchpits are supplied with pre-installed watertight end caps on each inlet/outlet.

Applications

Qpit Type 8 Catchpits are designed for use in highways applications and are used in conjunction with Ridgidrain pipework. They minimise the volume of silt and debris conveyed through the drainage system, by encouraging settlement within the sump, reducing maintenance activities. A coupler will be required to join the spigots of the catchpit to the pipeline.

Qpit Type 8 Catchpit Key Benefits

- High-quality off–site fabricated catchpit, eliminates wastage associated with in-situ construction
- One-piece catchpit reduces installation time and minimises health and safety risks
- Separates silt and debris from the downstream drainage system
- Provides easy access for maintenance activities
- Inlets and outlets supplied with integral spigots allowing quick and seamless connection to pipeline
- All inlet/outlet spigots are supplied with watertight end caps

ELEMENT	VALUE
Physical properties	
Diameter mm	600
Depth m	1.5
Sump depth mm	300
Material	HDPE
Colour	Black with blue interior
Chemical resistance	HDPE is naturally resistant to most chemicals associated with stormwater drainage systems
Inlets/outlets mm	150, 225, 300

QPIT TYPE 8 CATCHPITS

Inlet/outlet size mm	Number of inlets/outlets	Code
150	3	CP60015150
225	3	CP60015225
300	2	CP60015300

UNDER TRACK CROSSING CHAMBERS

Under Track Crossing (UTX) Chambers meet the cable protection needs of different signalling and telecommunications alongside and beneath railway tracks. They can be used in conjunction with our Ridgiduct cable protection system, all having Network Rail Parts and Drawing Systems (PADS) approval.

Under Track Crossing Chambers Key Benefits

- Network Rail Parts and Drawing Systems (PADS) Approved (PA05/05875) in sizes 600mm-1200mm
- Modular single-piece chambers, prefabricated in factory controlled conditions
- Fully integrated spigot connections are made from 100mm and/or 150mm Ridgidrain
- The orientation, size and height of UTX Chambers are tailored to meet the needs of the project
- Step rungs to BS EN 13101*
- Integral lifting points available upon request*

Note: UTX Chambers can be manufactured in sizes greater than 1200mm, but this will deviate away from the PADS approval.
*For chambers 1050mm or larger.

Applications

The chambers are approved for installation within both the cess areas (track side drainage) and track support zone 6ft areas.

Performance

Manufactured from structured wall polyethylene pipework, the chambers can be engineered to suit site-specific requirements regarding height, diameter and spigot orientation.

UNDER TRACK CROSSING CHAMBERS

ID (mm)	Code	Depth	No. of connections
600	CD600UTX	To suit site requirements	3, 6 or 9 way spigot orientations
750	CD750UTX		
900	CD900UTX		
1050	CD1050UTX		
1200	CD1200UTX		

Note: UTX Chambers can be manufactured in sizes greater than 1200mm, but this will deviate away from the PADS approval. Sizes are nominal I.D.
600mm diameter manufactured from Ridgidrain
750-1200mm diameter manufactured from Ridgistorm-XL.

Network Rail

Ridgiduct

Sizes available 94mm - 300mm

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

POLYSEWER INSPECTION CHAMBERS

Polysewer Inspection Chambers are a range of 460mm modular polypropylene inspection chambers. Both of the chambers are formed with a pre-benched base, side risers, seals and cover and frames. They provide a method of non-worker-entry access to either non-adoptable or adoptable sewers for inspection and maintenance purposes.

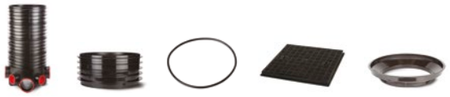
460mm Adoptable Inspection Chamber

460mm Non-Adoptable Inspection Chamber

Polysewer Inspection Chambers are sold in component parts to be assembled on site. The base units are connected to Polysewer pipes, then side risers are used to build the chamber to the necessary height and can easily be cut to the correct level using a fine-tooth saw. A seal ring is used to ensure a leak-tight joint. Cover and frames are available in a range of load classifications.

Performance

Polysewer Inspection Chamber for adoptable applications is designed in accordance with Sewers for Adoption, manufactured to comply with the test requirements of BS EN 13598, and is suitable for burial depths of up to 3m. Polysewer Inspection Chamber for non-adoptable applications is designed in accordance with Building Regulations and is suitable for burial depths of up to 1.2m.



460MM ADOPTABLE INSPECTION CHAMBERS

Description	Code
460mm chamber base with 150mm Polysewer main channel, 2 x 110mm EN1401 45° inlets and 2 x 150mm Polysewer 90° inlets (including 2 x 110mm blanking plugs, base and 4 risers - 1060mm high)	SFA671
460mm side riser (215mm high)	SFA441
460mm riser sealing ring	UG488
460mm square ductile iron cover and frame [B125]	UG513
460mm restricted access reducer to 350mm	UG514

BS EN 13598
KM585205

460MM NON-ADOPTABLE INSPECTION CHAMBERS

Description	Code
460mm chamber base with 150mm Polysewer main channel, 2 x 110mm EN1401 45° inlets and 2 x 150mm Polysewer 90° inlets (base - 258mm high)	PS670
460mm side riser (215mm high)	UG431
460mm riser sealing ring	UG488
460mm square polypropylene cover and 65mm deep frame [A+] (c/w seal, fixing screws and 350mm restrictor ring)	UG510
460mm square ductile iron cover and frame [B125]	UG513

Note:
A+ = Tested to withstand 35kN test load (Light vehicular traffic)
C = Tested to withstand 10kN test load (Non-vehicular traffic)
B125 = Class B125 load category of BS EN 124 1:2015 (Light vehicular traffic)

BBA BRITISH BOARD OF AGREMENT CERTIFICATE No. 89/2206

PIPE CONNECTIONS

Depending on the location and application of the component chamber, different piping systems will be required to connect as inlets and outlets. Whether a system is for foul or surface water, adoptable or required to comply with the Specification for Highway Works, suitable pipe connections are available:

BS EN 1401-1

A PVCu plastic pipe system for non-pressure underground drainage and sewerage, available in sizes 110mm and 160mm.

Polysewer

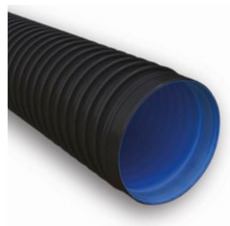
An adoptable PVCu structured wall sewer piping system, available in sizes 150-300mm.

Ridgisewer

An adoptable polypropylene structured wall sewer piping system, available in sizes 400-900mm.

Ridgidrain

Used for non-pressurised surface and sub-surface drainage applications, this HDPE twinwall piping system is available in sizes 100-900mm.



Ridgistorm-XL

An adoptable engineered HDPE thermoplastic large diameter piping system, used for a variety of applications, available in sizes 750-3000mm.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

RAINWATER HARVESTING

RAINWATER HARVESTING

Climate change and population growth are reshaping how we think about rainwater. With UK temperatures predicted to rise, climate change is driving the need for solutions to retain and reuse rainfall and surface water.

By harvesting rainwater, a constant supply of water can be maintained, whatever the weather. In periods of heavy rain, rainwater harvesting takes pressure off local drains and limits the potential of flooding. It also stores plentiful supplies of water for use during dry periods.

Why Harvest Rainwater?

- Population growth and rising consumption is increasing the demand for water
- Climate change is creating pressure to conserve water
- Legislation is enforcing the need to conserve water
- Higher water charges and water metering are predicted
- We use up to 70% more water now than we did 30 years ago

Harvested Rainwater Can Be Used For:

- Toilet flushing
- Irrigation
- Vehicle washing

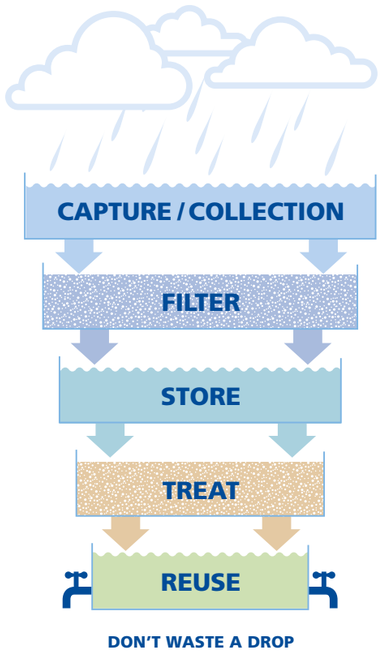
Rainwater Harvesting Key Benefits

- Tank sizes from 10,000 litres upwards
- Leaf filter within engineered chambers to suit specific project needs
- Complete range of additional items such as duty standby and booster systems
- Mains water backup
- Helps to reduce your carbon footprint by lowering the volume of water from local treatment works
- Tank system supplied with filters, pumps, valves, component set and factory fitted inlet, calmed inlet and outlet connections
- Offers bespoke design solutions
- Filter uses first flush principle
- Water can be filtered to 5 microns
- Increases water capture by using specialist filters such as RIDGISTORMSeparate-X4

Applications

- Residential
- Office blocks
- Warehouse
- Hotels
- Other multi-occupancy venues

SAVING WATER AND REUSING RAINWATER



Rainwater harvesting can reduce the strain we put on potable water supplies. Rainstream is a range of rainwater harvesting solutions utilising a Ridgistorm-XL tank to form buried storage or a GRP sectional tank to form above-ground storage. Whichever storage option is required, the full system can include pre-tank filtration, in-tank pump sets and post-tank filtration and disinfection.

Applications

Rainstream is able to offer both direct (pressure) and indirect (gravity) systems for the storage and reuse of rainwater. The captured rainwater can be used for toilet flushing, vehicle wash down and irrigation. Mains water top-up is utilised during periods of dry weather to ensure demand is always met. Once rainwater has been captured from roofs, pavements or roads, it is passed through pre-tank filtration to screen out leaves, insects, silt and other impurities.

The filtered water is stored below ground in an antimicrobial lined Ridgistorm-XL tank or within a building in a GRP sectional tank. Upon demand, water is pumped directly to the point of use or to a header tank for gravity distribution. Along this part of its journey, the water passes through further filtration and can also be disinfected utilising ultra violet and Titanium Advanced Oxidisation treatment.

An Advanced Control Unit (ACU), featuring a break tank with level controls and booster pump set, can be utilised as part of larger systems to increase efficiency and minimise mains water top-up volumes during dry periods.

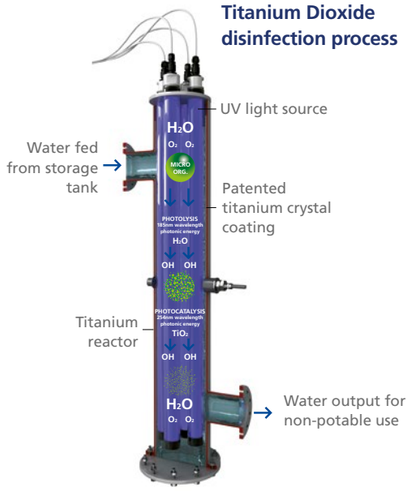
FILTERS AND DISINFECTION

Although captured water quality can be compromised by debris picked up from the collection surface, it is still suitable for non-potable purposes, provided it is processed by a system that has been correctly designed and installed. The use of high-quality components and proven system design principles allow Rainstream systems to meet the requirements of BS EN 16941.

The Filtration Process

Water arriving at the filter is distributed evenly across the full width of the filter cascade. The cascade pre-cleans the water by diverting the larger particles of debris away to the sewer. Water then flows over the secondary filter sieve where a special mesh allows the remaining dirt particles to fall away to the sewer. Cleaned water flows into the storage tank ready for reuse.

Leaf Filter



The Disinfection Process

The captured water passes through a disinfection unit where it is exposed to a high level of ultraviolet radiation. This alters the nucleic acid (DNA) of any viruses, bacteria, mould or parasites and prevents them from reproducing, leaving the water chemically unaltered while improving quality. This is a particularly important process where those people more susceptible to infection may come into contact with recycled water, particularly the very young or elderly. If this is likely, or if the water may be used in an aerosol form e.g. a vehicle wash-down area, we recommend that a risk assessment is carried out to ascertain the need for ultraviolet disinfection.

Header Tanks

We can supply a range of header tanks, which are used in conjunction with a gravity system and can be either connected directly to the Rainstream tank or connected to a booster system.

Booster System

A booster system consists of a GRP storage tank and booster pump to deliver non-potable water under pressure, around the building, over a large distance or to a high head. The tanks are supplied as either sectional or one-piece GRP tanks that connect directly to the Rainstream underground tank. Sited within the building envelope (typically in a plant room) the tank holds sufficient capacity to ensure a constant supply of non-potable water throughout the day.

The booster pumps are controlled via the supplied control panel and run in sequence to increase the life of the system and give backup in the unlikely event of one pump failure. A booster system is often required within a large scale development, typically large office blocks, retail premises or schools.

Rainstream Advance Control Unit (ACU)

Polypipe's Rainstream ACU is designed for non-domestic rainwater reuse. From designer to user the Rainstream ACU offers simple and effective solution for the control of rainwater distribution. Featuring, in a single unit, intelligent pump control combined with integral break tank and mains water top-up, the Rainstream ACU saves space in the plant room. A separate break tank and booster set are not required and it minimises the volume of mains water required in dry periods.

Duty Standby Pump Sets

Rainstream is supplied as standard with a duty standby pump set. The duty standby sets are positioned within the Rainstream underground storage tanks and are typically used where there is a high demand within the building. A key benefit of the duty standby set is the inclusion of two pumps which work in sequence. This increases the life of the system and gives back-up in the unlikely event of one pump failure. Available as either pressurised or gravity systems.

RAINSTREAM

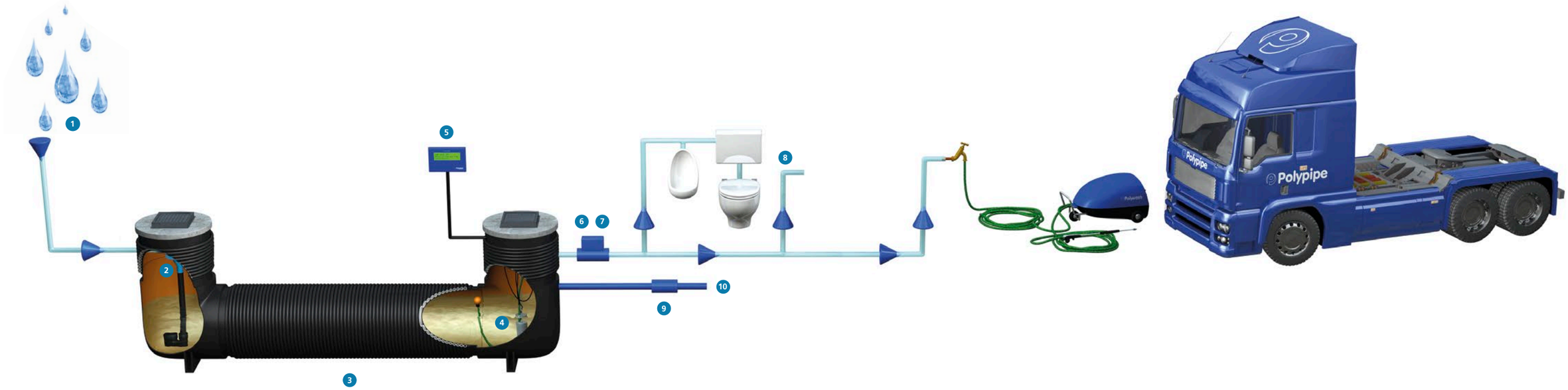
Rainstream from Polypipe offers a range of highly effective solutions for the retention, filtration and reuse of rainwater.

Rainstream For Commercial Applications

Large-scale solutions have been installed on a wide variety of projects, from Ministry of Defence sites through to retail developments. Our team, consisting of fully qualified designers and engineers, has the technical pedigree and manufacturing capability to design solutions to meet any site requirements.

ASSESSMENT AND ADVICE

Our experts offer a wide range of advice and support to help explain the solutions available for the effective capture, storage, filtration and reuse of rainwater. Services include: assessment, tank sizing calculations, technical detail and system schematics. Together these services ensure that customers receive the most suitable and effective rainwater reuse system for their particular application.



Typical System Process

1
Rainwater falling onto roofs, roads and paved areas can be collected by a variety of measures which include guttering, channel drainage and specialised roof drain systems.

2
Tank filtration then removes any larger pieces of debris such as leaves, before the collected water passes to the storage tank.

3
The storage vessel is typically a large tank which can be included within a building, surface mounted externally or buried below the surface of the site.

4
Captured water is redistributed through a second-stage filtration and pump assembly.

5
A sophisticated control unit monitors water levels in various parts of the system and matches these to the water demand at the outlets.

6
Third-stage in-line filtration to remove finer particles of debris before use.

7
An optional ultraviolet disinfection process can be used to kill off bacteria and improve the quality of the collected water.

8
Water is supplied on demand to a number of outlets around the property and can be used for many different purposes including flushing toilets, watering gardens or cleaning vehicles.

9
A back-flow-prevention device stops a backward flow of contaminated water from the sewer and acts as a rodent barrier.

10
Outlet to the sewer, soakaway, attenuation, or for reuse purposes.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

CABLE MANAGEMENT

CABLE MANAGEMENT

Our range of cable-protection products has been used extensively for power, rail, highways, residential, commercial, retail and industrial infrastructure applications.

With more than 1,000 tried and tested products to choose from, our extensive range of cable protection products is suited to almost any application. Our cable products and systems provide power, lighting and communication cabling and supply to Distribution Network Operators (DNOs) and Independent Distribution Network Operators (IDNOs). Manufactured in the UK, our solutions are certified to British and European standards, including a wide range of power solutions which conform to the industry standard ENATS 12-24. Our products meet the National Joint Utilities Group (NJUG) colour coding of underground utilities apparatus.

Applications

We offer a full range of cable protection systems for:

- Power
- Motorway Communications
- Lighting
- Utilities
  - Gas
  - Water
  - Telecommunications
  - Traffic signalling
  - Cable television
  - PVCu specification

(Ridgiduct is BBA and HAPAS approved)

(Network Rail Parts and Drawing Systems (PADS) Approved). Certificate number: PA05/05875.
Approved Ridgiduct and Ridgicoil can be used in conjunction with Under Track Crossing (UTX) chambers.

CABLE ACCESS

Our cable access products branded SubTerra, are a range of high-quality and easy-to-install modular access chamber systems manufactured from 100% recycled polypropylene.

Applications

Applications for both Apex and SubTerra products include:

- Telecoms
- Traffic Signals
- Industrial
- Street Lighting
- Residential
- Power
- Rail
- Motorway Comms
- Electric Vehicle Charging

Our range of structural and non-structural SubTerra access boxes provide the complete cable management solution no matter the project or application.

Complementing SubTerra is our comprehensive range of Apex covers and frames which are suited to a wide variety of loading criteria.

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

RIDGICOIL UTILITIES

Our range of utility ducting is available in a variety of NJUG classification colours to provide cable protection for electricity, street lighting, motorway communications, gas, water, cable TV and telecommunications.

Key

Typical NJUG colour coding

- B – Electricity
- BL – Water
- O – OSL – Street Lighting/OST – Traffic Signal
- Y – Gas
- G – Cable Television
- P – Motorway Communications/Street Lighting (Scotland)
- GR – Telecommunications

Ridgicoil Utilities key benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Network Rail PADS approved
- Manufactured in polyethylene with excellent impact resistance at low temperatures
- Long coil lengths for reduced jointing
- Factory installed polypropylene twine and coupling
- Optional sealing rings for sealed system
- Supplied with an integrated coupling
- Low weight, flexible, durable and high strength

Ridgicoil Utilities

Ridgicoil is a strong yet flexible alternative to conventional twinwall ducting manufactured from polyethylene for underground utilities. Ridgicoil's flexibility eliminates the need for special bends and the smooth bore has a low co-efficient of friction for ease of cable installation.

RIDGICOIL UTILITIES

ID mm	OD mm	Length m	Code	Colours	Pack qty	Pallet qty
31	40	50	RC40X50	B	1	8
40	50	50	RC50X50	B Y* BL	1	8
50	63	50	RC63X50**	B Y* BL O G P	1	7
60	75	50	RC75X50	B	1	6
71	90	50	RC90X50	B	1	6
94	110	50	RC110X50**	B Y* BL O G P	1	4
140	160	25	RC160X25	B	1	3

Note: Please specify upon ordering which coloured duct you require for your project.
*Please check the requirements of the utility company, who may stipulate a requirement for perforated duct.
**Network Rail PADS approved.

PA05/05875

Note: Sizes 63mm and 110mm only for coiled duct, couplings and seals.

Ridgicoil Couplings & Seals

Ridgicoil coupling

Ridgicoil seals

RIDGICOIL COUPLINGS

OD mm	Code	Pack qty
40	RCC40	10
50	RCC50	10
63	RCC63*	10
75	RCC75	10
90	RCC90	10
110	RCC110*	10
160	RCC160	10

RIDGICOIL SEALS

OD mm	Code	Pack qty
40	RCS40 ▯	10
50	RCS50	10
63	RCS63*	10
75	RCS75 ▯	10
90	RCS90 ▯	10
110	RCS110*	10
160	RCS160	10

▯ Made to order, subject to lead times and minimum order quantities.
*Network Rail PADS approved

PA05/05875

RIDGIDUCT UTILITIES

Ridgiduct is a lightweight, twinwall cable protection system that can be manufactured in a range of NJUG classification colours, from HDPE, to meet the cable protection needs of all utilities applications.

Ridgiduct Utilities key benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- BBA HAPAS approved
- Network Rail PADS approved
- Low weight, flexible, durable and high strength
- Good impact resistance at low temperatures
- Available from stock
- Available in a range of colours which comply with NJUG classifications
- Supplied with an integral coupling
- Print options available

RIDGIDUCT UTILITIES

ID mm	OD mm	Length m	Code	Colours	Pack qty
94	110	6	RB94X6	B Y* BL O G P	95
100	118	6	RB100X6	B Y* BL O G P	85
125	148	6	RB125X6	B	46
150	178	6	RB150X6	B Y* BL O G P	36
225	266	6	RB225X6**	B Y* BL	14
300	354	6	RB300X6PE	B*** Y* BL	9

Note: Please specify upon ordering which coloured duct you require for your project.
*Please check the requirements of the utility company, who may stipulate a requirement for perforated duct.
**Not BBA or HAPAS approved.
***Not Network Rail PADS approved.

ENATS (12-24)

PA05/05875

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

RIDGIDUCT UTILITIES

Ridgiduct Couplings and Seals for a Sealed System

Ridgiduct Sealing Rings

RIDGIDUCT COUPLINGS & SEALS FOR A SEALED SYSTEM

ID mm	Coupling code	Coupling pack qty	Seal code	Seal pack qty
94	CRD94	50	SRD94/1	190
100	CRD100	43	SRD100	170
125	N/A	N/A	N/A	N/A
150	CRD150	18	SRD150	36
225	CRD225	7	SRD225	14
300	CRD300	3	SRD300	9

Note: For a Sealed system 1 CRD coupling and 2 SRD seals required per joint.

EPDM seals to BS EN 681:Part 1 as standard.
Optional nitrile seals are available, but may be subject to order quantities and lead times.

Network Rail
PA05/05460

Ridgiduct Couplings

Ridgiduct coupling

RIDGIDUCT COUPLINGS

ID mm	Coupling code	Pack qty
94	RBC94	10
100	RBC100	10
125	RBC125	10
150	RBC150	10
225	CRD225	7
300	CRD300	3

Ridgiduct bends

Ridgiduct bend

RIDGIDUCT BLACK LONG RADIUS DRAWN BENDS

ID mm	Bend radius mm	Angle	Code	Pack qty
94mm	420	11.25°	RBDB94X11X0.42 ▯	10
	420	22.5°	RBDB94X22X0.42	10
	420	45°	RBDB94X45X0.42	7
	420	90°	RBDB94X90X0.42	7
100mm	420	11.25°	RBDB100X11X0.42	10
	420	22.5°	RBDB100X22X0.42	10
	420	45°	RBDB100X45X0.42	7
	420	90°	RBDB100X90X0.42	7
125mm	600	11.25°	RBDB125X11X0.6	7
	600	22.5°	RBDB125X22X0.6	7
	600	45°	RBDB125X45X0.6	4
	600	90°	RBDB125X90X0.6	3
150mm	610	11.25°	RBDB150X11X0.61	5
	610	22.5°	RBDB150X22X0.61	5
	610	45°	RBDB150X45X0.61	4
	610	90°	RBDB150X90X0.61	3

▯ Made to order, subject to lead times and minimum order quantities.
Note: Ridgiduct bends come in black only, but can be used with all colours within the Ridgiduct range. Bends are plain ended, please order couplings separately if required.

RIDGIDUCT UTILITIES

RIDGIDUCT ACCESSORIES

Size mm	Code	Pack qty
Single socket fixed bellmouth		
94	RBBM94 ▯	1
100	RBBM100	1
125	RBBM125 ▯	1
150	RBBM150	1
Plastic end cap		
94	RBEC94	1
100	EC1059INT	1
125	EC3051	1
150	EC1778INT*	1

▯ Made to order, subject to lead times and minimum order quantities.
End caps may be black, red or yellow.
*A 150mm external end cap is also available using suffix EXT in place of INT.

Ridgiduct accessories

Single socket fixed bellmouth

Plastic end cap

Gas ducting

Our gas ducting is a PVCu single-wall perforated duct, supplied in yellow and manufactured to BS 4962. The perforations allow for gas to vent safely in the event of a leak. Gas ducting is suitable for applications where utility companies stipulate the requirement for a perforated duct for the insertion of a gas pipe.

GAS DUCTING

OD mm	Length m	Description	Code	Coupling code
60	25	Perforated	LD6025YGAS	DC60
60	50	Perforated	LD6050YGAS	DC60
60	150	Perforated	LD60150YGAS	DC60
100	25	Perforated	LD10025YGAS	DC100M*
100	50	Perforated	LD10050YGAS	DC100M*

*Made from polypropylene, other couplings are made from PVCu.

Gas ducting

POWER – CLASS 1

Our products include cable protection that complies with ENATS 12-24 Classes 1, 2 and 3, as well as above-ground solutions such as cable guards and hockey sticks.

Ridgiduct Power HV

Manufactured from polypropylene, Ridgiduct Power HV offers a stiff yet flexible twinwall-structured cable-protection system, which complies fully with ENATS 12-24 Class 1 specification. It is available with a black outer and red inner as standard, but can also be manufactured with a red outer and red inner.

Ridgiduct Power HV Key Benefits

- Complies with ENATS 12-24 Class 1 specification, 450N compressive strength at 75°C
- Complies with BS EN 61386-24:2010, Type 750N, normal duty impact resistance
- Suitable for use with high voltage, XLPE sheathed cables
- IP4X rated system, protection against ingress of solid foreign objects
- Available with red inner wall and either a black or red outer wall for increased identification
- Supplied with an integral coupling
- Manufactured from polypropylene
- Full range of fittings and accessories available
- Low weight, flexible, durable and high strength

Ridgiduct Power HV bend

RIDGIDUCT POWER HV DUCT

ID mm	OD mm	Length m	Colours	Code	Pack qty
100	118	2	B R	RBHV100X2 (B or R)▯▯	85
100	118	3	B R	RBHV100X3 (B or R)▯▯	85
100	118	6	B R	RBHV100X6 (B or R) ▯	85
125	148	2	B R	RBHV125X2 (B or R)▯▯	46
125	148	3	B R	RBHV125X3 (B or R)▯▯	46
125	148	6	B R	RBHV125X6 (B or R) ▯	46
150	178	2	B R	RBHV150X2 (B or R)▯▯	36
150	178	3	B R	RBHV150X3 (B or R)▯▯	36
150	178	6	B R	RBHV150X6 (B or R)	36

Available in black (B) or red (R). Please specify with order.
▯ Red (R) is made to order, subject to lead times and minimum order quantities.
▯▯ Red (R) and black (B) are both made to order, subject to lead times and minimum order quantities.
Note: Not a sealed system. Where a sealed system is required, our PVCu Power HV Duct with sealed joints tested to BS EN 1277, should be considered.

ENATS (12-24)

RIDGIDUCT POWER HV DOUBLE SOCKET BENDS

Nominal Size mm	Bend radius m	Angle	Colours	Code	Pack qty
100	3.9	11.25°	B R	RBHVB100X11X3.9 (B or R)▯	1
100	3.9	22.5°	B R	RBHVB100X22X3.9 (B or R)▯	1
100	1.2	45°	B R	RBHVB100X45X1.2 (B or R)▯	1
100	1.2	90°	B R	RBHVB100X90X1.2 (B or R)▯	1
125	3.9	11.25°	B R	RBHVB125X11X3.9 (B or R)▯	1
125	3.9	22.5°	B R	RBHVB125X22X3.9 (B or R)▯	1
125	1.2	45°	B R	RBHVB125X45X1.2 (B or R)▯	1
125	1.2	90°	B R	RBHVB125X90X1.2 (B or R)▯	1
150	3.9	11.25°	B R	RBHVB150X11X3.9 (B or R)▯	1
150	3.9	22.5°	B R	RBHVB150X22X3.9 (B or R)▯	1
150	1.2	45°	B R	RBHVB150X45X1.2 (B or R)▯	1
150	1.2	90°	B R	RBHVB150X90X1.2 (B or R)▯	1

Available in black (B) or red (R). Please specify with order.
▯ Red (R) is made to order, subject to lead times and minimum order quantities.

ENATS (12-24)

Ridgiduct Coupling

RIDGIDUCT COUPLING

ID MM	Code	Pack Qty
100	RBC100	10
125	RBC125	10
150	RBC150	10

Note: Not a sealed system. Where a sealed system is required, our PVCu Power HV Duct with sealed joints tested to BS EN 1277, should be considered.

ENATS (12-24)

Trefoil Clip

Suitable for use with both Ridgiduct Power HV duct lengths and bends, the polypropylene Trefoil Clip is designed to support duct arrangement during installation and burial, ensuring consistent spacing of duct lengths and bends.

RIDGIDUCT POWER HV TREFOIL CLIP

Diameter mm	Colour	Code	Pack qty
100	B	RBTC100	10
125	B	RBTC125	10
150	B	RBTC150	10

PVCu Power HV

PVCu Power HV is a single-wall cable-protection system which fully complies with ENATS 12-24 Class 1 specification. Available for both unsealed and sealed systems, with sealed joints tested to BS EN 1277, it is suitable for high, medium and low-voltage applications. It is available in black as standard, but can also be manufactured in red.

PVCU POWER HV DUCT

Nominal wall thickness mm	ID mm	OD mm	Length m	Colour	Code	Pack qty
Unsealed						
4.1	102	110	6	B	SD7110X6BNS▯	95
5.2	150	160	6	B	SD7160X6BNS▯	46
4.1	102	110	6	R	SD7110X6RNS▯	95
5.2	150	160	6	R	SD7160X6RNS▯	46
Sealed						
4.1	102	110	6	B	SD7110X6BSPE & UG402B*	95
5.2	150	160	6	B	SD7160X6BSPE & UG602B*	46
4.1	102	110	6	R	SD7110X6RSPE & UG402B*	95
5.2	150	160	6	R	SD7160X6RSPE & UG602B*	46

▯ Made to order, subject to lead times and minimum order quantities.
*Please order duct and coupling together to make a sealed system.

ENATS (12-24)

RIDGIDUCT POWER HV BENDS

Nominal Size mm	Bend radius m	Angle	Colours	Code	Pack qty
110	3.9	11.25°	B R	SDB7110X11X3.9 (B or R)▯*	1
110	3.9	22.5°	B R	SDB7110X22X3.9 (B or R)▯*	1
110	1.2	45°	B R	SDB7110X45X1.2 (B or R)▯*	1
110	1.2	90°	B R	SDB7110X90X1.2 (B or R)▯*	1
160	3.9	11.25°	B R	SDB7160X11X3.9 (B or R)▯*	1
160	3.9	22.5°	B R	SDB7160X22X3.9 (B or R)▯*	1
160	1.2	45°	B R	SDB7160X45X1.2 (B or R)▯*	1
160	1.2	90°	B R	SDB7160X90X1.2 (B or R)▯*	1

Available in black (B) or red (R). Please specify with order.
▯ Red (R) and black (B) are made to order and subject to lead times and minimum order quantities.
*For sealed bends, please add the suffix 'S' to the end of the code.
Bends for a sealed system are plain ended and made to order, bends for an unsealed system are single socketed.

ENATS (12-24)

Ridgiduct Coupling

Trefoil Clip

PVCu Power HV Duct

PVCu Power HV Key Benefits

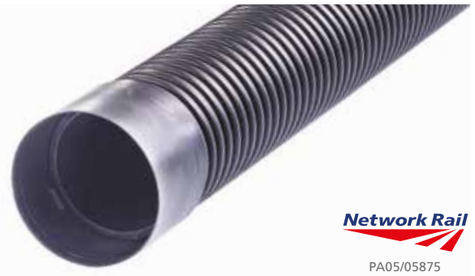
- Complies with ENATS 12-24 Class 1 specification, 450N compressive strength at 75°C
- Complies with BS EN 61386-24:2010, Type 750N, normal duty impact resistance
- IP47 rated system (watertight up to 1 metre) for sealed systems, otherwise IP4X
- 6m lengths as standard (other lengths available on request)
- Standard markings – Electrical Cable Duct (other markings available on request)

PVCu Power HV bend

POWER – CLASS 2

Ridgiduct Power

Ridgiduct is a twinwall system, specifically engineered to provide a light yet robust solution for cable protection. Ridgiduct is manufactured from high-density polyethylene (HDPE) and the resulting stiff, yet flexible, twinwall structure easily outperforms alternative products.



Network Rail

PA05/05875

Ridgiduct Power Key Benefits

- Complies with ENATS 12-24 Class 2 specification 450N compressive strength at 50°C
- Complies with BS EN 61386-24:2010, Type 750N, normal duty impact resistance
- A preferred choice for many Distribution Network Operator (DNO) companies
- Network Rail PADS approved
- Supplied with an integral coupling
- IP4X rated system, protection against ingress of solid foreign objects
- Low weight, flexible, durable and high strength
- Good impact resistance, even at low temperatures
- Available in an alternative twinwall split duct form for easy installation around existing cables with minimal change in strength

Ridgiduct Bend

Ridgiduct Coupling

RIDGIDUCT POWER DUCT

ID mm	OD mm	Length m	Code	Pack qty
100	118	2	RB100X2*	85
100	118	3	RB100X3*	85
100	118	6	RB100X6*	85
125	148	2	RB125X2	46
125	148	3	RB125X3	46
125	148	6	RB125X6	46
150	178	2	RB150X2*	36
150	178	3	RB150X3*	36
150	178	6	RB150X6*	36
225	267	6	RB225X6PE □*	14
300	354	6	RB300X6PE □*	9

□ Made to order, subject to lead times and minimum order quantities.
Supplied plain ended, please order couplings and seals separately.
*A sealed system can be achieved using a Ridgidrain coupling and sealing rings.

ENATS (12-24)

RIDGIDUCT DOUBLE SOCKET BENDS

Nominal size mm	Bend radius m	Angle	Code	Pack qty
100	2.4	11.25°	RBB100X11X2.4 □*	1
100	2.4	22.5°	RBB100X22X2.4 □*	1
100	0.45	45°	RBB100X45X0.45 □*	1
100	0.45	90°	RBB100X90X0.45*	1
125	2.4	11.25°	RBB125X11X2.4 □	1
125	2.4	22.5°	RBB125X22X2.4 □	1
125	0.61	45°	RBB125X45X0.61*	1
125	0.61	90°	RBB125X90X0.61*	1
150	2.4	11.25°	RBB150X11X2.4 □	1
150	2.4	22.5°	RBB150X22X2.4 □	1
150	0.61	45°	RBB150X45X0.61 □*	1
150	0.61	90°	RBB150X90X0.61*	1

□ Made to order, subject to lead times and minimum order quantities.
*Bend radius compliant with ENATS 12-24.
Sealed Ridgiduct bends are available for 100 and 150mm duct. Manufactured from PVCu.

RIDGIDUCT COUPLING

ID mm	Code	Pack qty
100	RBC100	10
125	RBC125	10
150	RBC150	10
225	CRD225*	7
300	CRD300*	3

*225mm and 300mm couplings are from the Ridgidrain range.
Note: If the system is required to be watertight

ENATS (12-24)

POWER – CLASS 3

Polyduct Power

Polyduct Power is manufactured from medium-density polyethylene (MDPE) and is an ENATS 12-24 Class 3 specification product, available in coiled lengths. It has exceptional durability and can be used for either open trench or trenchless applications.

POLYDUCT POWER DUCT

ID mm	OD mm	Length m	Code	Pack qty
32	37	25	PD3237X25BEPE	1
32	37	50	PD3237X50BEPE	1
32	37	100	PD3237X100BEPE	1
38	44	25	PD3844X25BEPE	1
38	44	50	PD3844X50BEPE	1
38	44	100	PD3844X100BEPE	1
50	60	25	PD5060X25BEPE	1
50	60	50	PD5060X50BEPE	1

Polyduct Power Key Benefits

- Complies with ENATS 12-24 Class 3, 450N compressive strength at 23°C
- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Available in 25m, 50m or 100m coils plain ended
- Flexibility of coil eliminates the needs for specialised bends
- High impact resistance

POLYDUCT POWER COUPLINGS

Nominal size mm	ID mm	OD	Code	Pack qty
32	40	46	PDC32	1
38	46	51	PDC38	1
50	60	65	PDC50	1

Polyduct Coupling

RIDGIDUCT POWER DUCT (NON-STANDARD SIZES)

ID mm	OD mm	Length m	Code	Pack qty	Coupling code	Pack qty
94	110	6	RB94X6	95	RBC94	10

Note: Available as a sealed system using CRD94 couplings and SRD94 sealing rings.

Ridgiduct Power Duct

PVCU COMMS DUCT

PVCu Comms Duct is a complete single-wall solution comprised of ducts, bends, fittings, and accessories in a range of diameters, to meet the needs of the telecommunications industry and the requirements of BS EN 61386-24:2010. Our comprehensive product range of Comms Duct, SubTerra Axess chambers and Apex covers and frames are an ideal solution for major network operators and contractors alike.

Image for illustration purposes only*

PVCu Comms Duct Key Benefits

- Durable, high-quality construction
- Low co-efficient of friction for easy cable installation
- A short 54mm branch on swept tee for trouble-free installation in congested footways
- PVCu comms ducts include integral sockets and are available in green as standard. Grey and other colours are also available on request subject to minimum order quantities and lead time

SWEPT TEE

Description	Part code	Colours	Pack qty
96 x 54 mm	TDJT96X54	G	15

DUCT REPAIR KIT

Description	Standard length (m)	Part code	Pack qty
96mm duct repair kit	0.5	DRK096	1

SINGLE WALL PCVU DUCT

Nominal OD (mm)	Length (M)	Code	Colours	Pack qty
54	6	TD54X6	G/1 GR	400
96.5	6	TD96X6	G/1 GR	121

 Made to order and subject to lead times.
Available in green (G) or grey (GR). Please specify with order.
*96.5mm duct meets the requirements of BS EN 61386-24:2010 Type 450N

COUPLINGS

Description	Code	Colours	Pack qty
54	TDC54	G	10
54mm slip	TDSC54	G	10
96	TDC96	G	50
96mm slip	TDC96	G	50

BENDS

OD (mm)	Angle	Code	Colours	Pack qty
54	11.25°	TDB54X11	G	60
54	22.5°	TDB54X22	G	60
54	45°	TDB54X45	G	60
54	90°	TDB54X90	G	50
96.5	11.25°	TDB96X11	G/1 GR/1	15
96.5	22.5°	TDB96X11	G/1 GR/1	15
96.5	45°	TDB96X45	G/1 GR/1	15
96.5	90°	TDB96X90	G/1 GR/1	10

Available in green (G) or grey (GR). Please specify with order.

HDPE COMMS DUCT

HDPE Comms Duct is a complete twin-wall solution, manufactured from 100% recycled material. The system is comprised of ducts, bends, fittings, and accessories in a range of diameters, to meet the needs of the telecommunications industry and the requirements of BS EN 61386-24:2010. Our comprehensive product range of Comms Duct, SubTerra Axess chambers and Apex covers and frames are an ideal solution for major network operators and contractors alike.

Image for illustration purposes only*

DUCT

Nominal diameter	Part code	Length (m)	Colours	Pack qty
94	RB94X6	6	P G GR	95
94	CRD94	N/A	P G GR	50
50	RC63X50	50	P G GR	7

BENDS

Nominal diameter	Part code	Angle	Colours	Pack qty
94	RBDB94X11X0.42	11.25	P G GR	10
94	RBDB94X22X0.42	22.5	P G GR	10
94	RBDB94X45X0.42	45	P G GR	7
94	RBDB94X90X0.42	90	P G GR	7

JUNCTIONS

Nominal diameter	Part code	Description	Colours	Pack qty
94	RBJT94X54	94X54mm Swept-Tee	P G GR	15
94	RCC54/63	Ridgicoil 54mm to 63mm adapter	P G GR	1

PA05/05460

HDPE Comms Duct Key Benefits

- Made from 100% recycled materials
- Manufactured to BS EN 61386-24:2010
- Type 450N, normal duty impact resistance
- BBA Certified – 89/2175 and 13/H205
- Network Rail PADS approved
- Low friction co-efficient for easy cable installation
- Lightweight, flexible, durable and high strength
- 100% recyclable at the end of service life

Applications

The HDPE Comms Duct system offers network installers an alternative to traditional PVCu methods of cable protection.

This twin-walled solution is available in Ø94mm x 6m lengths for main ducts and Ø50mm x 50m coils for lateral ducts. The swept-T junction is designed for use with Ø54mm single wall PVCu lateral ducts and, with the use of an adapter, Ø50mm twin wall HDPE lateral ducts.

Performance

Comms duct is manufactured from 100% recycled high-density polyethylene (HDPE) and is supplied with a black polypropylene (PP) coupler in 94mm and 63mm. The internal wall has a static coefficient of less than 0.22 and also has durable resistance to attack from chemicals likely to occur in soils and ground water.

MOTORWAY COMMUNICATIONS

Ridgiduct Motorway Communications Key Benefits

- IP47 rated sealed system (watertight up to 1 metre)
- BBA HAPAS certified as a fully sealed system
- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Network Rail PADS approved
- Print options available
- Can be used for trenchless applications
- Low weight, flexible, durable and high strength
- Good impact resistance even at lower temperatures

Ridgiduct Motorway Communications

We are able to offer Ridgiduct Motorway Communications 94, 100 and 150mm as a sealed system specifically designed for motorway communications applications. Manufactured from HDPE, Ridgiduct is fully integrated with Polypipe access boxes. It complies with BS EN 61386-24:2010, certifying 450N normal duty compression performance at 23°C and meets the requirements of Series 1500 Specification for Highway Works.

RIDGIDUCT MOTORWAY COMMUNICATIONS DUCT

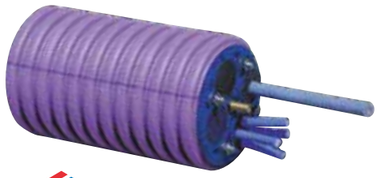
ID mm	OD mm	Length m	Code	Colour	Pack qty	Coupling code	Seal code
94	110	6	RB94X6PMCPPE/1	P	95	CRD94	SRD94/1
100	118	6	RB100X6PMCPPE	P	85	CRD100	SRD100
100	118	6	RB100X6BMCPPE ▯*	B	85	CRD100	SRD100
150	178	6	RB150X6PMCPPE ▯	P	36	CRD150	SRD150
150	178	6	RB150X6BMCPPE ▯*	B	36	CRD150	SRD150

▯ Made to order, subject to lead times and minimum order quantities.
* For Scottish market printed Motorway Comms/Power.
Other print options available.
Conforms to Highway Works Specification for sealed systems.
Please order couplings and seals separately.

PA05/05875

Comtite™ Ducting Plug Key Benefits

- IP47 rated sealed system (watertight up to 1 metre)
- BBA HAPAS approved
- Allows for rapid fitting, both new and retrofit
- Integral test valve
- Design resists ejection from the cable protection
- All 4 ports can be utilised by the use of an additional draw cord bracket
- Blanking grommet with rope attachment point



Comtite™ Ducting Plug

The Comtite™ cable protection plugs system, when used in conjunction with the insertable cable grommets, ensures full compliance with the requirements of Series 1500 Specification for Highway Works (MCHW) and is the only transit system accredited by the BBA for motorway communications. When used with Ridgiduct Motorway Communication duct, it completes a certified sealed system.

COMTITE™ DUCTING PLUG

Description	Code	Pack qty
94mm plug	DP94 ▯	40
100mm plug	DP100	40
Blanking grommet with rope attachment point	DPG0	10
9mm grommet	DPG9	10
12mm grommet	DPG12	10
14mm grommet	DPG14	10
16mm grommet	DPG16	10
18mm grommet	DPG18	10
21mm grommet	DPG21	10
24mm grommet	DPG24	10
27mm grommet	DPG27	10
4 x 9mm grommet	DPG9X4	10
7 x 9mm grommet	DPG9X7	10

▯ Made to order, subject to lead times and minimum order quantities.
4 grommets required per plug. In order to achieve a sealed plug, use a blanking grommet where cable grommet is not required.
Patented product.

Duct Spacers

High-quality injection-moulded spacers are available to secure multiple installations of all 94 and 100mm diameter ducts. The unique modular design enables multiple configurations to be assembled. Duct spacers comply with the requirements of MCHW 1530.

DUCT SPACERS

Description	Duct ID mm	Code	Pack qty
2 way Duct Spacer (to suit 110mm O.D.)	94	RBS110X2	50
4 way Duct Spacer (to suit 110mm O.D.)	94	RBS110X4	25
6 way Duct Spacer (to suit 110mm O.D.)	94	RBS110X6	12
2 way Duct Spacer (to suit 118mm O.D.)	100	RBS118X2	50
4 way Duct Spacer (to suit 118mm O.D.)	100	RBS118X4	25
6 way Duct Spacer (to suit 118mm O.D.) ▯	100	RBS118X6	12

▯ Made to order, subject to lead times and minimum order quantities.
Note: Highways England requires 1 per metre.

Draw Cord

Draw cord is manufactured from high-quality polypropylene to a nominal breaking strength of 5kN.

DRAW CORD

Description	Code	Pack qty
6mm dia. x 220m	DC220	1
6mm dia. x 500m (wooden drum)	DC500	1

Special note for applications subject to Highways England requirements
It should be noted that a number of versions of the Manual of Contract Documents for Highway Works are in use and individual contracts can be subject to substantial variation. Suitability should always be checked with the overseeing organisation. Products selected should be BBA approved or meet the requirements of Table 5/2 unless exceptional requirements demand an alternative. It should also be noted that there are differences between requirements for ducts in Series 500 and 1500 of the Specification for Highway Works.

Ridgicoil Motorway Communications

Ridgicoil is a coiled twinwall cable protection duct, manufactured from polyethylene with an excellent impact resistance even at low temperatures. It has exceptional durability and flexibility, which eliminates the need for specialist bends. With a smooth bore, Ridgicoil has a low coefficient of friction for ease of cable installation.

RIDGICOIL MOTORWAY COMMUNICATIONS DUCT

ID mm	OD mm	Length m	Code	Pack qty	Pallet qty	Coupling code	Seal code
50	63	50	RC63X50PMCP	1	7	RCC63	RCS63
94	110	50	RC110X50PMCP	1	4	RCC110	RCS110

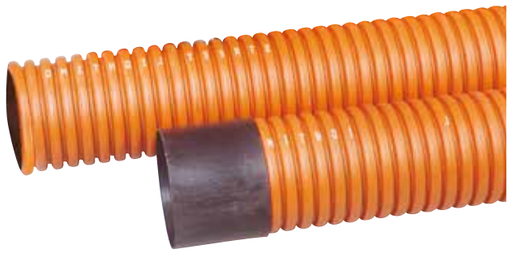
Ridgicoil Motorway Communications Key Benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Network Rail PADS approved
- Ease of use and transportation
- Long coil lengths for reduced jointing
- Flexibility of coiled duct eliminates the need for specialist bends
- Integral coupling
- Factory installed polypropylene twine and coupling
- Optional sealing rings for sealed system
- Low weight, high strength
- Can be used for trenchless applications

LIGHTING

Ridgiduct Lighting

Ridgiduct Lighting is a twinwall, low-weight, flexible cable-protection system, specially manufactured from HDPE in orange for use in street lighting and traffic signal applications. A full range of access and junction boxes, bends and bell mouths is available.



Ridgiduct Lighting key benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- BBA and BBA HAPAS approved
- Network Rail PADS approved
- Good impact resistance, even at low temperatures
- Flexible in application, with a minimal requirement for special bends
- Available with print options for street lighting and traffic signals
- Supplied with an integral coupling
- Low weight, flexible, durable and high strength

Polyduct Lighting

Polyduct Lighting Bend

RIDGIDUCT LIGHTING DUCT

ID mm	OD mm	Length m	Code	Colour	Pack qty	Coupling code	Seal code
94	110	6	RB94X6O(SL or TS)	O	95	CRD94	SRD94/1
100	118	6	RB100X6O(SL or TS)	O	85	CRD100	SRD100
100	118	6	RB100X6PSL(PE)*	P	85	CRD100	SRD100
150	178	6	RB100X6O(SL or TS)	O	36	CRD150	SRD150
150	178	6	RB150X6PSL(PE)*	P	36	CRD150	SRD150

Available with street lighting (SL) or traffic signal (TS) print. Please specify with order.
*For plain ended, please add the suffix 'PE' to the end of the code

PA05/05875

Note: 100mm and 150mm only.

Polyduct Lighting

Polyduct Lighting is a single wall alternative to twinwall cable protection. Manufactured in orange HDPE, it can be used in either open trench or trenchless applications. Polyduct Lighting is available in two sizes, with either street lighting of traffic signal print.

POLYDUCT LIGHTING DUCT

ID mm	OD	Wall thickness mm	Length m	Code	Pack qty
50	60	5	6	PD5060X6O (TS ▯ or SL)	250
97	107	5	6	PD97107X6O(TS or SL)	85

▯ Made to order, subject to lead times and minimum order quantities.
Available with street lighting (SL) or traffic signal (TS) print. Please specify with order.

POLYDUCT LIGHTING BENDS

OD mm	Angle	Radius mm	Code	Pack qty
60	45°	350	PDB60X45O ▯	25
60	90°	225	PDB60X90O	25
107	11.25°	240	PDB107X11O	1
107	22.5°	240	PDB107X22O	1
107	45°	450	PDB107X45O	1
107	90°	450	PDB107X90O	1

▯ Made to order, subject to lead times and minimum order quantities.

Ridgicoil Lighting

Ridgicoil is a coiled, twinwall cable-protection duct, manufactured from polyethylene with an excellent impact resistance even at low temperatures. It has exceptional durability and flexibility, which eliminates the need for specialist bends. With a smooth bore, Ridgicoil has a low co-efficient of friction for ease of cable installation.

RIDGICOIL LIGHTING DUCT

ID mm	OD mm	Length m	Code	Pack qty	Pallet qty
50	63	50	RC63X50O(SL or TS)	1	7
94	110	50	RC110X50O(SL or TS)	1	4

Available with street lighting (SL) or traffic signal (TS) print. Please specify with order.

PA05/05875

Ridgicoil Lighting key benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Network Rail PADS approved
- Ease of use and transportation
- Long coil lengths for reduced jointing
- Factory installed polypropylene twine and coupling
- Low weight, high strength
- Can be used for trenchless applications

Ridgicoil Couplings & Seals

RIDGICOIL COUPLINGS

OD mm	Code	Pack qty
63	RCC63*	10
110	RCC110*	10

RIDGICOIL SEALS

OD mm	Code	Pack qty
63	RCS63*	10
110	RCS110*	10

*Network Rail PADS approved

PA05/05875

Ridgicoil coupling

Ridgicoil seals

Scottish Lighting

Lighting in Scotland has specific requirements and for this purpose we manufacture a single wall cable protection range. Supplied with one coupling fitted per length, our Scottish lighting system is available in 60mm and 100mm diameter coils. For purple twinwall systems.

SCOTTISH LIGHTING PURPLE CABLE PROTECTION & FITTINGS

Description	Size mm	ID mm	Code	Pack qty
Scottish Lighting Single Wall Corrugated				
100m Scottish Lighting coil	60	53	SSL60X100P ▯	1
40m Scottish Lighting coil	100	90	SSL100X40P	1
Scottish Lighting Junction Boxes				
	100		SSLJB100	10
Scottish Lighting Couplings				
	60		DC60*	10
	100		DC100M*	10
Scottish Lighting Reducers				
Slotted	100 x 60		SSLR100X60Slot	75
Unslotted	100 x 60		SSLR100X60 ▯	75
Scottish Lighting End Cap				
	100		SSLEC4PIN ▯	25

▯ Made to order, subject to lead times and minimum order quantities.
*Couplings are black in colour.
Purple as standard. Other colours available on request. Minimum order 50 coils.

Scottish Lighting Coil

Scottish Lighting End Cap

Scottish Lighting Slotted Reducer

Scottish Lighting Coupling

GENERAL PURPOSE

General Purpose Duct

General Purpose Duct is an integrally socketed duct manufactured from PVCu. It is a cost-effective alternative to higher specification systems for use in light and medium duty applications. The General Purpose Duct system also includes a range of bends, junctions, hockey sticks and end caps. The system is manufactured to traditional accepted dimensions, but does not meet the requirements of BS EN 61386-24:2010. General Purpose Duct is not suitable for Highways England applications and will require a better standard of installation than more robust systems for successful performance. For BBA HAPAS approved power ducting use our Ridgiduct system.

Suretwin

Suretwin is a twinwall cost-effective alternative to conventional cable protection systems where a BBA or ENATS compliant duct is not required. The Suretwin system is currently available in 150mm diameter and meets the stiffness and normal duty impact requirements of BS EN 61386-24:2010, Type 450 only.

Suretwin Duct

SURETWIN

ID mm	OD mm	Length m	Code	Pack qty
150	178	6	GPT150X6B	36

General Purpose Duct

GENERAL PURPOSE DUCT

OD inches	OD mm	Wall thickness mm	Length m	Code	Pack qty
2	54	1.5 - 1.7	6	GP2X6B	400
3	89	1.8 - 2.2	6	GP3X6B	144
4	114	1.8 - 2.1	6	GP4X6B	86
6	168	2.2 - 2.9	6	GP6X6B	36
8	206	3.2 - 3.6	6	GP8X6B	25

General Purpose ducting lengths include integral socket.
Note: This product comes in colour grey to black for both pipe and fittings.
All sizes are nominal.

General Purpose Bend

GENERAL PURPOSE BENDS

Diameter inches	OD mm	Radius mm	Angle	Code	Pack qty
2	54	225	11.25°	GPB2X11 ▯	60
2	54	225	22.5°	GPB2X22 ▯	60
2	54	225	45°	GPB2X45	60
2	54	225	90°	GPB2X90	50
3	89	350	11.25°	GPB3X11 ▯	25
3	89	350	22.5°	GPB3X22 ▯	25
3	89	350	45°	GPB3X45	15
3	89	350	90°	GPB3X90	10
4	114	460	11.25°	GPB4X11 ▯	10
4	114	460	22.5°	GPB4X22 ▯	10
4	114	460	45°	GPB4X45	10
4	114	460	90°	GPB4X90	7
6	168	610	11.25°	GPB6X11 ▯	3
6	168	610	22.5°	GPB6X22	3
6	168	610	45°	GPB6X45	3
6	168	610	90°	GPB6X90	3
8	206	900	11.25°	GPB8X11 ▯	1
8	206	900	22.5°	GPB8X22 ▯	1
8	206	900	45°	GPB8X45	1
8	206	900	90°	GPB8X90	1

▯ Made to order, subject to lead times and minimum-order quantities.
Note: This product comes in colour grey to black for both pipe and fittings.

GENERAL PURPOSE ANCILLARIES

Diameter inches	Diameter mm	Code	Pack qty
Hockey Sticks			
2	54	GPHS2	25
Connectors			
2	54	GPC2	10
3	89	GPC3	60
4	114	GPC4	40
6	168	GPC6	15
8	200	GPC8 ▯	1
45° Junctions			
2	54	GPJY2X45	1
3	89	GPJY3X45	1
4	114	GPJY4X45	1
6	168	GPJY6X45	1
8	200	GPJY8X45 ▯	1
90° Junctions			
2	54	GPJT2X90	1
3	89	GPJT3X90	1
4	114	GPJT4X90	1
6	168	GPJT6X90	1
8	200	GPJT8X90 ▯	1
End Caps			
2	54	GPEC2	10
3	89	GPEC3	10
4	114	GPEC4	10
6	168	GPEC6	10
8	200	GPEC8	10

▯ Made to order, subject to lead times and minimum order quantities.

General Purpose Hockey Stick

General Purpose 45° Junction

General Purpose 90° Junction

General Purpose End cap

CIVILSENQUIRIES@POLYPIPE.COM | WWW.POLYPIPE.COM/CIVILS

RIDGICOIL POWER

Ridgicoil Power

Ridgicoil is a coiled twinwall cable-protection duct, manufactured from polyethylene with an excellent impact resistance even at low temperatures. It has exceptional durability and flexibility, which eliminates the need for specialist bends. With a smooth bore, Ridgicoil has a low coefficient of friction for ease of cable installation.

Ridgicoil Power Key Benefits

- Complies with BS EN 61386-24:2010, Type 450N, normal duty impact resistance
- Provides compressive strength 450N at 23°C, but not an ENATS 12-24 approved product
- Network Rail PADS approved
- Ease of use and transportation
- Can be used for trenchless applications
- Long coil lengths for reduced jointing
- Low weight and high strength
- Factory installed polypropylene twine and coupling

RIDGICOIL POWER DUCT

OD mm	OD mm	Length m	Code	Pack qty	Pallet qty
31	40	50	RC40X50BE	1	8
40	50	50	RC50X50BE	1	8
50	63	50	RC63X50BE*	1	7
60	75	50	RC75X50BE	1	6
71	90	50	RC90X50BE	1	6
94	110	50	RC110X50BE*	1	4
140	160	25	RC160X25BE	1	3

Printed Electrical Cable Duct.
*Network Rail PADS approved.

Network Rail

PA05/05875
Note: Sizes 63mm and 110mm only.

Ridgicoil Couplings & Seals

Ridgicoil Coupling

Ridgicoil Seals

RIDGICOIL COUPLINGS

OD mm	Code	Pack qty
40	RCC40	10
50	RCC50	10
63	RCC63*	10
75	RCC75	10
90	RCC90	10
110	RCC110*	10
160	RCC160	10

RIDGICOIL SEALS

OD mm	Code	Pack qty
40	RCS40	10
50	RCS50	10
63	RCS63*	10
75	RCS75	10
90	RCS90	10
110	RCS110*	10
160	RCS160	10

*Network Rail PADS approved

Network Rail

PA05/05875

POWER – ACCESSORIES

RIDGIDUCT POWER SPLIT DUCT

ID mm	OD mm	Length m	Code	Pack qty
100	118	1	RB100X1S	85
100	118	3	RB100X3S □	85
125	148	1	RB125X1S	46
125	148	3	RB125X3S □	46
150	178	1	RB150X1S	36
150	178	3	RB150X3S □	36

□ Made to order, subject to lead times and minimum order quantities.

RIDGIDUCT SPLIT DUCT FITTINGS

Description	ID mm	Code	Pack qty
100mm Coupling	100	CRBS100 □	10
150mm Coupling	150	CRBS150 □	10

□ Made to order, subject to lead times and minimum order quantities.

RIDGIDUCT TO PVCU CONNECTORS

Description	Code	Pack qty
Socket To Spigot		
100mm Ridgiduct socket to 110mm PVCu spigot	ARD100110	10
150mm Ridgiduct socket to 160mm PVCu spigot	ARD150160	10
Socket to Socket		
100mm Ridgiduct socket to 110mm PVCu socket	ARD100110 & UG402B	10
150mm Ridgiduct socket to 160mm PVCu socket	ARD150160 & UG602B	10

CABLE GUARD

Diameter inches	Diameter mm	Length ft	Code	Pack qty
0.75	19	10	CG002X10 □	25
1.0	25	10	CG003X10	25
1.5	38	10	CG004X10	10
2.0	50	10	CG005X10	10
2.5	64	10	CG006X10	10
3.0	80	10	CG007X10	5
4.0	100	10	CG008X10	5

□ Made to order, subject to lead times and minimum order quantities.

HOCKEY STICKS

Utility provider	Size mm	Colour	Code	Pack qty
*	38	White	HSPV017WHITE	25
*	38	Black	HSPV033YEBBLK	25
Manx Utilities	50	Black	HSPV037YEBBLK	25

* No specific utility provider.

Ridgiduct Power Split Duct

Ridgiduct power split duct is mainly used as retrofit ducting for existing cables.

ARD150160

ARD100110

Cable Guard

Hockey Stick

ACCESS BOXES

Key Benefits

- High-quality, lightweight, modular system facilitates fast and easy installation
- Manufactured from 100% recycled polypropylene
- High-strength performance thanks to structural twin-wall design
- Individual sections or pre-assembled chambers
- Achieves multiple chamber depths in 150mm increments
- Sections can be supplied with pre-drilled duct entries, fitted ancillaries and riveted bases
- Durable, long-life asset
- Fully recyclable at the end of its service life

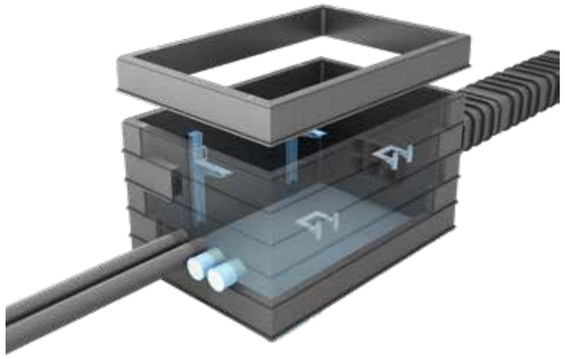
SUBTERRA AXESS

The SubTerra Axess modular chamber system comprises interlocking, stackable ring sections that form structural square or rectangular chambers with a wide range of clear openings and depths. All sizes are available as individual ring sections or pre-assembled as complete chambers. When these are combined with our cable protection portfolio, cable management ancillaries and Apex range of covers and frames, we are able to provide a complete, optimised cable management solution.

SubTerra Axess is available with almost any clear opening from 150x150mm upwards in increments of 25mm. Common sizes and codes are listed, please contact us with any special requirements.

All SubTerra Axess chambers are suitable for D400 vertical loading criteria when installed following our typical installation guidance.

Chambers can be utilised in E600 and F900 applications when installed following project-specific installation guidance from our Technical Team.



SUBTERRA AXESS

Product code	Clear opening	Overall dimensions	Effective height
SAP675675	675X675	811X811	150
SAP750600	750X600	886X736	150
SAP750750	750X750	886X886	150
SAP900450	900X450	1036X586	150
SAP900600	900X600	1036X736	150
SAP900900	900X900	1036X1036	150
SAP10001000	1000X1000	1136X1136	150
SAP1200600	1200X600	1336X736	150
SAP1200675	1200X675	1336X811	150
SAP1200750	1200X750	1336X886	150
SAP1200900	1200X900	1336X1036	150
SAP12001200	1200X1200	1336X1336	150

Performance

All SubTerra Axess chambers are suitable for D400 vertical loading criteria when installed following our typical installation guidance.

Chambers can also be utilised in E600 and F900 applications when installed following project-specific installation guidance from our Technical Team.

Duct Entry Sections

Ring Sections with pre-drilled 114mm diameter duct entries and pre-fitted end caps are available as Duct Entry Sections.

DUCT ENTRY SECTIONS

Product code	Clear opening	Effective height	No. of duct entries
SAP675675E	675x675	150	16
SAP750600E	750x600	150	18
SAP750750E	750x750	150	20
SAP900450E	900x450	150	18
SAP900600E	900x600	150	20

Duct Entry Base Sections are also available (Duct Entry Section fitted with riveted 6mm recycled LDPE base sheet).
For Duct Entry Base Sections add suffix B to Duct Entry Section product code.
For any other duct entry diameter or configuration, please contact our Technical Team.
All dimensions are nominal and in mm.

Duct Entry Sections

Ancillaries

Access and cable management ancillaries are available for on-site installation or pre-installed.

ANCILLARIES

Product code	Descriptions	
SASTEP	SubTerra bolt-on step iron kit	
		Height (mm)
SAWB2	SubTerra bolt-on wall bearer Type 2	279
SAWB3	SubTerra bolt-on wall bearer Type 3	508
SAWB5	SubTerra bolt-on wall bearer Type 5	813
		Length (mm)
SACB5	SubTerra cable bearer Type 5 & pin	165
SACB8	SubTerra cable bearer Type 8 & pin	242
SACB12	SubTerra cable bearer Type 12 & pin	343
SACBPIN	SubTerra spare cable bearer pin	
SABM110	SubTerra 110mm bellmouth	
SAEC110	SubTerra 110mm end cap	

SUBTERRA MCX

SubTerra MCX motorway communications chambers offer the complete solution for the installation of highway communications cables, when used in conjunction with the Apex range of covers and frames, Ridgiduct and Ridgicoil cable protection and Comtite ducting plugs.

Comprised of interlocking stackable ring sections, these structural chambers are constructed from 100% recycled polypropylene. Where necessary, they are supplied complete with a cable bearer system, step iron kits and a benched sump base.

SubTerra MCX chambers are suitable for D400 vertical loading criteria when installed following our typical installation guidance base.

SubTerra MCX

Key benefits

- High-quality, lightweight chambers facilitate fast and easy installation
- Manufactured from 100% recycled polypropylene
- High-strength performance due to structural twin-wall design
- Meets the requirements of highway construction details MCX 0815
- Pre-assembled chambers supplied with requisite ancillaries and appropriate base
- Can be supplied with pre-drilled duct entries and pre-fitted ancillaries
- Durable, long-life asset
- Fully recyclable at end of service life

CHAMBERS

Product code	Clear opening	Overall dimensions	Effective depth	Overall depth
SMCXA	1300x850	1436x986	910	1066
SMCXB	750x675	886x811	910	1066
SMCXC	600x450	736x586	610	616

Other depths, additional ancillaries and pre-drilled duct entries can be supplied to suit project specific installation requirements.
All dimensions are nominal and in mm.

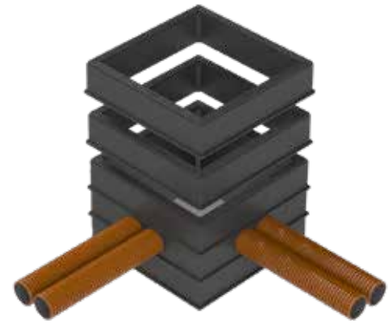
INCLUDED CHAMBER ANCILLARIES

Product code	Step kit*	Wall bearer kit*	Cable bearer and pin*	Base type
SMCXA	2 no	2 no Type 2	2 no Type 8	Sump Base
SMCXB	2 no	N/A	N/A	Sump Base
SMCXC	N/A	N/A	N/A	Flat Base

SUBTERRA ONE

The SubTerra One chamber system comprises singular, interlocking, stackable ring sections that form structural access chambers for inspection and maintenance.

All sizes are available as individual ring sections or supplied pre-assembled as complete chambers.



SubTerra One

SUBTERRA ONE

Product guide	Clear opening	Overall dimensions	Effective height
sAP300300F	300X300	390X390	150
SAP450450F	450X450	540X540	150
SAP600450F	600X450	690X540	150
SAP600600F	600X600	690X690	150
SAP915445F	915X445	1020X555	150
SAP915445FB*	915X445	1020X555	150

*Integrated base.
All dimensions are nominal and in mm.
For duct entry sections, add E to the end of the part code.

SUBTERRA LIGHT

The SubTerra Light access box is a 100% recycled polypropylene former available in five variants with an effective depth of 300mm. Via an interlocking feature, the boxes are easily stackable to form various chamber depths and have pre-formed duct entries for easy connection to our Ridgiduct and Ridgicoil systems. All sizes are available as a built unit and our Apex B125 Composite covers and frames are available to complement SubTerra Light.

SubTerra Light

SUBTERRA LIGHT

Size (mm)	Cover & frame (B125)	Subterra Light
300x300	APEX300300BCC/TS	STL300300
450x300	APEX450300BCC/TS	STL450300
450x450	APEX450450BCC/TS	STL450450
600x450	APEX600450BCC/TS	STL600450
600x600	APEX600600BCC/TS	STL600600

APEX COVERS & FRAMES

Apex is a comprehensive range of access covers and frames, which work in unison with SubTerra chambers. They are available in a selection of different materials, types, sizes and load classes, to suit a wide variety of applications.

The Apex range

- Composite covers and steel frames
- Steel recessed paviour covers and frames
- Steel solid top covers and frames
- Concrete infill covers and steel frames
- Ductile iron covers and frames

Key benefits

- High quality and durable
- Covers to suit all groups from FACTA B to FACTA D and B125 to F900
- Broad range of materials and types
- Load-tested in accordance with FACTA or EN124 specifications where appropriate

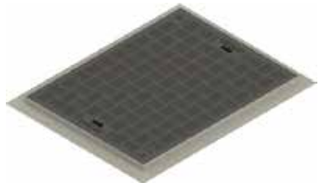
Applications

Designed for use with the SubTerra range of access chambers, the Access Box and Pole Box range of void formers and the Ridgstorm-XL range of chambers, Apex covers and frames are suitable for applications up to load class F900.

For further information on SubTerra chambers, please see the relevant data sheets.

Performance

Covers available to suit all groups from FACTA B to FACTA D and B125 to F900.

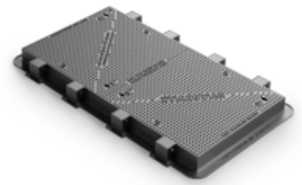


B125 Composite Covers and Frames

FACTA B to FACTA D Steel Recessed Pavior Covers and Frames

FACTA B to FACTA D Steel Solid Top Covers and Frames

B125 Concrete Infill Covers and Steel Frames



B125 to F900 Ductile Iron Covers and Frames

	Composite	Steel Recessed	Steel Solid Top	Concrete Infill	Ductile Iron		
To Suit SubTerra Clear Opening	B125	FACTA B	FACTA B	B125	B125	C250	D400
300x300	✓	✓	✓	✓	-	✓	✓
450x300					-	-	-
450x450		✓	✓	✓	✓	✓	✓
600x450	✓	✓	✓	✓	✓	✓	✓
600x450	-	-	-	-	-	-	✓*
600x600	✓	✓	✓	✓	✓	✓	✓
675x675	-	✓	✓	✓	✓	-	✓
750x600	-	✓	✓	✓	✓	✓	✓
750x675	-	-	-	-	-	-	✓*
750x750	-	✓	✓	✓	✓	✓	✓
900x450	✓	✓	✓	✓	-	-	-
900x600	✓	✓	✓	✓	✓	✓	✓
900x900	✓	✓	✓	✓	✓	✓	✓
1000x1000	✓	✓	✓	✓	-	-	✓
1200x600		✓	✓	✓	-	-	-
1200x675	-	✓	✓	✓	✓	-	✓
1200x750	-	✓	✓	✓	-	-	-
1200x900	-	✓	✓	✓	-	-	✓
1200x1200	✓	✓	✓	✓	-	-	✓
1300x850	-	-	-	-	-	-	✓*
1500x750	-	✓	✓	✓	-	-	-
1500x1500	✓	✓	✓	✓	-	-	-

Steel Recessed Paviour covers and frames are 80mm tray depth as standard.
Ductile Iron D400 covers and frames are 100mm frame depth as standard.
*Cover badged Motorway Communications and compliant with DMRB CD534 (Chamber tops and gully tops for road drainage and services).
Please note that some covers and frames are made to order and may require minimum order quantities and have extended lead times.
Other sizes, depths and loadings may be available upon request, please contact our Technical Team for further information.

Polypipe
Civils & Green Urbanisation

Polypipe Civils & Green Urbanisation,
Charnwood Business Park,
North Road,
Loughborough,
LE11 1LE

Tel: +44 (0)1709 770000
Fax: +44 (0)1709 770001