EXCLUSIVE FROM JDP

# TOTAL SOLUTIONS FOR UNDERGROUND DRAINAGE



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9 WE ALSO SELL OTHER PRODUCTS



## INTRODUCTION

JDP is part of Tessenderlo Group, a worldwide organisation of 7,000+ employees across 100+ locations in more than 25 countries. Together, JDP and its manufacturing partners are considered Europe's leading experts in drainage pipe systems and water management.

Our philosophy is to be more than just a merchant. As well as stocking quality products from respected brands, we also manufacture our own cutting-edge high-performance products, such as the ULTRA3 adoptable sewer system, AXEDO® inspection chambers, and RAINBOX attenuation & infiltration crates for flood management.

Together with 26 branches across the UK, first-class customer service, technical knowledge, and extensive product ranges, JDP is truly a one-stop shop for customers and is committed to providing the total solution for your project.

Whether you're looking for underground drainage pipes and fittings for foul water systems, twinwall, linear channel drainage, flexible land drain, or rainwater harvesting for surface water drainage, or even heavyside products such as concrete rings and manhole chambers, JDP branches are filled with the civils and drainage products you need to complete your project.

## THE COMPLETE DYKA SYSTEM

Recycled and recyclable – DYKA is continually investigating and investing in systems and technology to reduce the environmental impact of its activities and products on the natural world. This has led to the development of the ULTRA3 pipe system, which is manufactured from at least 40% recycled material, AXEDO inspection chambers, and RAINBOX attenuation and soakaway crates, which are both made using 100% polypropylene, making them 100% recyclable.

As a complete system, ULTRA3 and AXEDO are up to 35% faster to install than traditional alternatives, allowing you to have a high-performance solution with a positive environmental impact.

At JDP, we take sustainability seriously. As one of the UK's leading providers of water management solutions, we believe that sustainable and environmentally responsible design is critical for the built environment.

As a part of DYKA Group, a Business Unit of Tessenderlo Group, we are more than just a distributor of plastic pipe systems and fittings. By transporting water, air, and other energy sources in a reliable, efficient, and sustainable way, we do our bit for a better planet every day. Moreover, we do this with recycled or recyclable materials. We can, therefore, proudly say that we are "Nature's Network".

### DYKA Group Nature's Network

### SUSTAINABILITY

ULTRA3 100/110mm & 150/160mm pipework is 20-25% lighter than EN 1401 pipework. AXEDO chambers are also a fraction of the weight of traditional materials, which means more can be transported in a single delivery. It provides safer and easier onsite handling and a reduced carbon footprint directly associated with it.

Additionally, unlike other systems, AXEDO requires less excavation and can be manually handled into place. This reduces the need for carbon-costly excavators and mechanical handling, which can be potentially hazardous onsite, expensive to hire, and produce unnecessary carbon emissions.

The ability to efficiently stack RAINBOX 3SR crates creates space savings onsite and during transportation, enabling all three products to reduce carbon footprint, time, and transportation costs.

### ULTRA3 IS SHOWN TO HAVE REDUCTION IN GLOBAL WARMING & EUTROPHICATION

### PRODUCT LIFESPAN AND END-OF-LIFE

Plastic pipes have an expected life span of 100+ years for below-ground and 50+ years for above-ground applications.

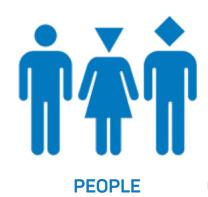
ULTRA3, AXEDO and RAINBOX 3SR all have an expected lifespan of 100+ years. When AXEDO and RAINBOX 3SR reach the end of life, due to being made of polypropylene, they can be recycled into the next generation of plastic products.



# THE SUSTAINABILITY PROGRAM - JDP & DYKA

At JDP, we are proud to be part of the sustainability program. We live in an ever-changing world where we provide added value solutions for growing needs related to urbanisation, a massive energy challenge, an increasing scarcity and abundance of water, climate change and a greater demand for a more comfortable, healthy, and safe lifestyle. We have clustered our sustainability program into three key focus areas, covering multiple SDGs.







**CONTINUOUS IMPROVEMENT** 

# **ULTRA3**® UNDERGROUND DRAINAGE

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### ULTRA3<sup>®</sup> THE COMPLETE SEWER & DRAINAGE SOLUTION

ULTRA3<sup>®</sup> from JDP is a market-leading dual-purpose drain and sewer pipe system giving you a single-range solution. ULTRA3 is the ideal choice for all situations from on-plot 110mm to mains sewers up to 630mm. Popular with installers, ULTRA3 is a complete system with a common installation process across the entire range.

### FAST TO INSTALL & LONG SERVICE LIFE

With its simple installation system, ULTRA3 is easy to use and fast to install, giving time and cost savings on site. ULTRA3 is made from at least 40% recycled PVC, making it an environmentally responsible choice. A pipe stiffness of SN8 and a lifespan to match traditional materials make ULTRA3 the future of drainage systems.

Our ULTRA3 range is kitemarked to BS EN 13476-2, making it fully adoptable across the UK.

# COMPLIANT & ADOPTABLE NATIONWIDE

ULTRA3 is a complete system that is adoptable by all water authorities across mainland UK and fully compliant under SfS (Scotland), SfA (Wales) and DCG (England). ULTRA3 is available from stock in JDP branches across the country or by direct delivery to site.





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# SAFER ON SITE & THE SUSTAINABLE CHOICE

ULTRA3 is the health and safety system of choice. Manufactured from virgin PVC-U on the outer and inner surfaces (for optimal flow performance) with an inner core engineered from carefully selected recycled PVC. This makes for a uniquely 'green' product that is relatively light compared to traditional materials and, therefore, safer to handle on-site, requiring less hazardous and expensive mechanical handling.

### THE INSTALLERS CHOICE FROM PLOT TO MAINS

ULTRA3 is popular with installers nationwide because it is a one-stop solution from plot to mains being available in a full range of diameters from 110-630mm. ULTRA3 has high-quality integral seals that reduce installation time thus improving the efficiency and effectiveness of your sewer network. In comparison to other systems on the market that are ribbed, the ULTRA3 system does not have any loose seals that can be lost on site.

### DESIGNED FOR YOU, ENGINEERED TO LAST

Reduced weight and faster installation does not mean reduced quality. If installed in accordance with the manufacturer's instructions, ULTRA3 has a minimum lifespan of 100 years. Manufactured by DYKA, JDP's sister company, ULTRA3 is the result of several years of design, testing and feedback from installers, customers and industry experts, ensuring it is the right drainage solution for your sites. Illustrative description of ULTRA3 PVC-U inner and outer surfaces with a recycled PVC Core.









SCAN QR CODE TO SEE OUR: ULTRA3 vs Concrete video

# THE RANGE YOU CAN TRUST

ULTRA3 is manufactured to the highest standards in our own state-of-the-art factories. This ensures that, as a merchant-manufacturer, we have the perfect product for you.

### WHEN YOU SPECIFY A PIPING SYSTEM YOU CAN BE SURE THAT ULTRA3 HAS THE CORRECT SPECIFICATION:

- Kitemarked to BS EN 13476 (-1, -2) Plastic piping for non-pressurised systems. In addition to compliance, ULTRA3 is at least 40% recycled!
- Fittings BS EN 1401-1 Solid wall PVC-U piping requirements for non-pressurised underground sewers and drains.
- WRC Testing -WIS 4-35-01 ULTRA3 meets and exceeds the standards for high-pressure jetting up to 4000PSI of PVC sewer systems. A low coefficient of friction minimises the risk of blockages, providing a long-life and low-maintenance system.

### ADOPTABLE NATIONWIDE

ULTRA3 is tested, certified and approved for adoption by all mainland UK Water Authorities. As a complete system, from on-plot to main sewers, ULTRA3 gives you a single solution that is fast and simple to install for all your drainage needs.







### SUSTAINABLE DRAINAGE SYSTEMS

Ne offer free, accredited CPD sessions to share our expertise. **Book or enquire online.** 

### NEXT GENERATION TECHNOLOGY

ULTRA3 is much more than just a drain/sewer system. It is the sustainable choice for the next generation of projects. PVC-U is an engineered technology designed to last as long as any traditional material but with even better flow characteristics. Manufactured with a recycled PVC core, ULTRA3 also has many green advantages.



# SUSTAINABLE, DURABLE & RECYCLED

ULTRA3 is tough and highly durable, exceeding WIS jetting standards with SN8 stiffness. This ensures that, although it is easier to lift, it is never lightweight in performance. Add to this the minimum 40% recycled PVC used in its manufacture and you have a high-performance solution with a positive environmental impact.

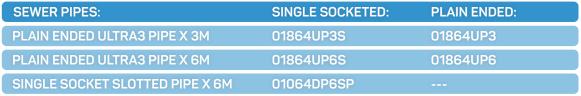
# **REDUCED INSTALLATION TIME**

As a complete system, ULTRA3 and AXEDO are up to 35% faster to install than traditional alternatives.

FOR MORE INFORMATION, VISIT OUR WEBSITE: www.jdpipes.co.uk

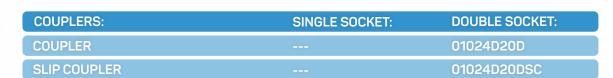






ULTR







BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° SHORT RADIUS BEND	01024D29	01024D29D
30° SHORT RADIUS BEND	01024D27	01024D27D
45° SHORT RADIUS BEND	01024D25	01024D25D
87.5° SHORT RADIUS BEND	01024D23	01024D23D
87.5° REST BEND	01024D21	01024D21D
0-30° VARIABLE BEND	01024DV40	01024DV40D



PLAIN END BEND:	SOCKETED:	UNSOCKETED:
87.5° PLAIN ENDED LONG RADIUS BEND		01024D22



EQUAL JUNCTIONS:	SINGLE SOCKET:	TRIPLE SOCKET:
45° JUNCTION	01024D33	01024D33D
87.5° SWEPT JUNCTION	01024D30	01024D30D



ADAPTOR:	PRODUCT CODE:
110 - 68MM PVC RAINWATER ADAPTOR	01024DRA





ACCESS FITTINGS:	PRODUCT CODE:
ACCESS CAP	01024D64
PROTECT CAP	01024D67
TEMPORARY SITE CAP INT/EXT	01024D65
SOCKET PLUG	01024D68
NON-RETURN VALVE	01024DNRV
ALUMINIUM RODDING EYE OVAL	01024DRE
ALUMINIUM RODDING EYE SQUARE SEALED	01024DRESS
PLASTIC RODDING EYE	01024DREP

**90° SWEPT JUNCTION** 



#### **RANGE 100/110MM**



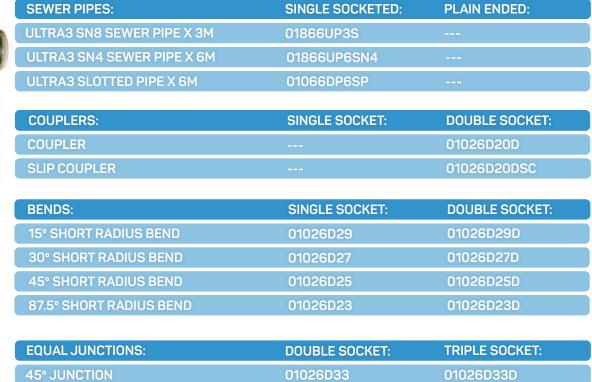
GULLIES & TRAPS:	PRODUCT CODE:
45° UNIVERSAL GULLY TRAP	01024DG90
P-TRAP	01024DG91
SQUARE HOPPER HEAD SPIGOT	01024DG92
RECTANGULAR HOPPER HEAD	01024DG93
ULTRA3 SQUARE TOP BOTTLE GULLY C/W 110MM OUTLET (INC.TELESCOPIC HOPPER)	01024DBG160110
ULTRA3 SQUARE TOP BACK INLET BOTTLE GULLY C/W 110MM INLET/OUTLET (INC.TELESCOPIC HOPPER)	01024DBG1602110
COMPLETE HOPPER HEAD C/W PP GRATE TO SUIT ULTRA3 BOTTLE GULLY	01024DBGHH
CAST IRON GRATING TO FIT ULTRA3 BOTTLE GULLY	01024DBGRC



GULLIES & TRAPS:	PRODUCT CODE:
DYKA GULLY BASE OUTLET	0603UGBASE110
DYKA GULLY GRATING 25T	0603UGSTOP

### **RANGE 150/160MM**





01026D30

01026D30D

**REDUCER:** 

160 - 110MM LEVEL INVERT REDUCER







UNEQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET
45° SWEPT JUNCTION (160X110MM)	010264D33	010264D33D
90° JUNCTION (160X110MM)	010264D30	010264D30D

SINGLE SOCKET:



SADDLE CONNECTION:	SINGLE SOCKET:
PVCU SADDLE CONNECTION TO CONCRETE PIPE (160MM)	029226DSAD



ACCESS FITTINGS:	PRODUCT CODE:
ACCESS CAP	01026D64
PROTECT CAP	01026D67
SOCKET PLUG	01026D68
NON-RETURN VALVE	01026DNRV
ALUMINIUM RODDING EYE OVAL	01026DRE

### RANGE 185/200MM

1	SEWER PIPE:	SINGLE SOCKETED:	PLAIN ENDED:
	ULTRA3 SN8 SEWER PIPE X 3M	02868UP3S	



COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
COUPLER		02828D20D
SLIP COUPLER		02828D20DSC



BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
45° BEND	02828D25	
90° BEND	02828D23	



EQUAL JUNCTION:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° JUNCTION	02828D33	



### RANGE 185/200MM

JUNCTION:	UBLE SOCKET:	TRIPLE SOCKET:
ICTION (200X160MM)	3286D33	
R:		
	GLE SOCKET:	DOUBLE SOCKET:
	IGLE SOCKET:	DOUBLE SO



SOCKET PLUG:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET PLUG	02828D68	

#### RANGE 225/250MM

SEWER PIPE:	SINGLE SOCKETED:	PLAIN ENDED:
ULTRA3 SN8 SEWER PIPE X 3M	028610UP3S	



COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
COUPLER		028210D20D
SLIP COUPLER		028210D20DSC



BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° BEND	028210D29	
30° BEND	028210D27	
45° BEND	028210D25	
90° BEND	028210D23	



EQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° BEND (250X250MM)	028210D33	
90° BEND (250X250MM)	028210D30	



UNEQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° REDUCING JUNCTION (150X160MM)	0282106D33	
45° REDUCING JUNCTION (185X200MM)	0282108D33	
90° REDUCING JUNCTION (150X160MM)	0282106D30	
90° REDUCING JUNCTION (100X110MM)	0282104D30	

SEWER PIPE:

SLIP COUPLER

ULTRA3 SN8 SEWER PIPE X 3M



PLAIN ENDED:

028212D20DSC

### **RANGE 225/250MM**

REDUCERS:	SINGLE SOCKET:	DOUBLE SOCKET:
250 – 160MM LEVEL INVERT REDUCER	0282106DT	
250 - 200MM LEVEL INVERT REDUCER	0282106D30	

SOCKET PLUG:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET PLUG	028210D68	

#### RANGE 300/315MM





COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET COUPLER		028212D20D

SINGLE SOCKETED:



BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° BEND	028212D29	
30° BEND	028212D27	
45° BEND	028212D25	
90° BEND	028212D23	



EQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° JUNCTION	028212D33	
90° JUNCTION	028212D30	



UNEQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° REDUCING JUNCTION (150X160MM)	0282126D33	
45° REDUCING JUNCTION (185X200MM)	0282128D33	
45° REDUCING JUNCTION (225X250MM)	02821210D33	
90° REDUCING JUNCTION (100X110MM)	0282124D30	
90° REDUCING JUNCTION (150X160MM)	0282126D30	
90° REDUCING JUNCTION (225X250MM)	02821210D30	



### 300/315MM

REDUCERS:	SINGLE SOCKET:	DOUBLE SOCKET:
250 - 160MM REDUCER	0282126DT	
315 - 250MM REDUCER	02821210DT	
SOCKET PLUG:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET PLUG	028212D68	

### LARGE DIAMETER RANGE 375/400MM



1	SEWER PIPE:	SINGLE SOCKETED:	PLAIN ENDED:
	ULTRA3 SN8 SEWER PIPE X 3M	029616UP3S	

COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
COUPLER		029216D20D
SLIP COUPLER		029216D20DSC



BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° BEND	029216D29	
30° BEND	029216D27	
45° BEND	029216D25	
90° BEND	029216D23	



EQUAL JUNCTION:	SINGLE SOCKET:	DOUBLE SOCKET:
90° JUNCTION		029216D30



UNEQUAL JUNCTION:	SINGLE SOCKET:	DOUBLE SOCKET:
45° REDUCING JUNCTION (150X160MM)		0292166D33



ACCESS FITTINGS:	SINGLE SOCKET:
SOCKET PLUG	029216D68



SADDLE CONNECTION:
PVCU SADDLE CONNECTION TO
ULTRA3 PIPE (160MM)

SINGLE SOCKET: 0292166DSAD



### LARGE DIAMETER RANGE 475/500MM

	SEWER PIPE:	SINGLE SOCKETED:	PLAIN ENDED:
	ULTRA3 SN8 SEWER PIPE X 3M	029620UP3S	
	COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
( A)	COUPLER		029220D20D
	SLIP COUPLER		029220D20DSC
	BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
Carl 1	15° BEND	029220D29	
	30° BEND	029220D27	
	45° BEND	029220D25	
	90° BEND	029220D23	
		SINGLE SOCKET	
		SINGLE SOCKET:	DOUBLE SOCKET:
	EQUAL JUNCTION: 90° JUNCTION	SINGLE SOCKET:	DOUBLE SOCKET: 029220D30
	90° JUNCTION		029220D30
	90° JUNCTION UNEQUAL JUNCTION:	 SINGLE SOCKET:	029220D30 DOUBLE SOCKET:
	90° JUNCTION UNEQUAL JUNCTION:	 SINGLE SOCKET:	029220D30 DOUBLE SOCKET:
	90° JUNCTION UNEQUAL JUNCTION: 45° REDUCING JUNCTION (150X160MM)	 SINGLE SOCKET: 	029220D30 DOUBLE SOCKET:
	90° JUNCTION UNEQUAL JUNCTION: 45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS:	SINGLE SOCKET: SINGLE SOCKET:	029220D30 DOUBLE SOCKET:
	90° JUNCTION UNEQUAL JUNCTION: 45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS:	SINGLE SOCKET: SINGLE SOCKET:	029220D30 DOUBLE SOCKET:
	90° JUNCTION UNEQUAL JUNCTION: 45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS: SOCKET PLUG	SINGLE SOCKET: SINGLE SOCKET: 029220D68	029220D30 DOUBLE SOCKET:

### LARGE DIAMETER RANGE 600/630MM





SEWER PIPE:	SINGLE SOCKETED:	PLAIN ENDED:
ULTRA3 SN8 SEWER PIPE X 3M	029624UP3S	
ULTRA3 SN4 SEWER PIPE X 3M	029624UP3SN4	

COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
COUPLER		029224D20D
SLIP COUPLER		029224D20DSC



### LARGE DIAMETER RANGE 600/630MM

	BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
and a fill	15° BEND	029224D29	
	30° BEND	029224D27	
	90° BEND	029224D30	
_			
-0	EQUAL JUNCTION:	DOUBLE SOCKET:	TRIPLE SOCKET:
	90° JUNCTION	029224D30	
75	UNEQUAL JUNCTION:	DOUBLE SOCKET:	TRIPLE SOCKET:
	UNEQUAL JUNCTION: 45° REDUCING JUNCTION (150X160MM)	DOUBLE SOCKET: 0292246D33	TRIPLE SOCKET:
	45° REDUCING JUNCTION (150X160MM)	0292246D33	
	45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS:	0292246D33 SINGLE SOCKET:	
	45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS: SOCKET PLUG	0292246D33 SINGLE SOCKET: 029224D68	
	45° REDUCING JUNCTION (150X160MM) ACCESS FITTINGS:	0292246D33 SINGLE SOCKET:	

### **PPIC INSPECTION CHAMBERS**

ULTRA3 PIPE (160MM)





CHAMBERS:	PRODUCT CODE:
320MM DYKA BASE 5X110MM INLET LEVEL INVERT	01024DSMB
320MM DYKA RISER INC. SEAL 200MM DEPTH	01024DSMR
320MM ULTRA3 SIC PP SQUARE COVER & FRAME 15KN BADGED ULTRA3	01024DSMCDSU3
320MM DYKA SIC CHANNEL INSERTS - 45° SET OF 2 (L&R)	01024DSMBI45
320MM DYKA SIC CHANNEL INSERTS - 90° SET OF 2 (L&R)	01024DSMBI90
320MM ULTRA3 SIC PP ROUND COVER & FRAME 15KN BADGED ULTRA3	01024DSMCDRU3
450MM DIA X 247MM DEEP CHAMBER BASE 110MM	01024DLMB
450MM DIA X 280MM DEEP CHAMBER BASE 160/110MM	01026DLMB
450MM DIA X 235MM DEEP CHAMBER RISER C/W SEALING RING	01024DLMR
450MM ULTRA3 PPIC PP ROUND COVER & FRAME 35KN BADGED ULTRA3	01024DLMCRU3
450MM ULTRA3 PPIC PP SQUARE COVER & FRAME 35KN BADGED ULTRA3	01024DLMCSU3





LUBRICANTS:	PRODUCT CODE:
BOTTLE PIPE LUBRICANT (500G)	0102LUB500B
TUBE LUBRICANT (500G)	0102LUB500T
PIPE JOINTING LUBRICANT (0.5KG)	2001LUB500
PIPE JOINTING LUBRICANT (1KG)	2001LUB1
PIPE JOINTING LUBRICANT (2.5KG)	2001LUB2.5



AIR TEST KITS:	PRODUCT CODE:
AIR TESTING KIT	200179109
PUMP	200184011
DRAIN TESTING KIT C/W PLUGS	200179119
4" PVC AIR BAG FOR SEALING ONLY C/W 1.2MTR HOSE & SCHRADER VALVE	200183031
4" PVC AIR BAG FOR TESTING (1/2" BSP MALE THREAD) C/W 1.2MTR HOSE & SCHRADER VALVE FOR SEALING	200183032
6" PVC AIR BAG FOR SEALING ONLY WITH 1.2MTR HOSE & SCHRADER VALVE	200183051
200-300MM PVC AIR BAG FOR TESTING (1/2" BSP MALE THREAD) C/W 1.2MT HOSE & SCHRADER VALVE FOR SEALING	200183062



CHAMFERING TOOLS:	PRODUCT CODE:
HAND RASP	2001RASP
110MM DRILL TOOL	2001CHAMFER
CORDLESS ROUTER	2001ROUTER
TREND GUIDED BEVEL CUTTER	2001BEVCUTTER



WARNING TAPES:	PRODUCT CODE:
SEWER DETECTABLE WARNING TAPE X 100M	2003DETMESHSB
SEWER WARNING TAPE X 365M	2003FOULSEWECON

# **BTN PRODUCT RANGE**

### BTNyloplast Nature's Network



BT Nyloplast is a leading manufacturer of underground drainage fittings. These 110mm drainage fittings are made from high-quality PVC-U and are available in a variety of sizes and shapes to meet the needs of any project.

BT Nyloplast, part of DYKA Group, is a leading manufacturer of underground drainage fittings. Their products are designed to be durable and long-lasting, even in the harshest conditions. Resistant to corrosion and chemicals, their 110mm fittings are ideal for use in a variety of applications and, when combined with our ULTRA3 pipes, can create an approved system for commercial and non-adoptable projects.

Some of the features of BTN 110mm underground drainage pipes and fittings include:

- Smooth bore for easy flow of water
- High tensile strength for durability
- Chemical resistance
- Corrosion resistance
- UV resistance
- Low maintenance

BTN fittings are designed to be durable and long-lasting, even in the harshest conditions. Resistant to corrosion and chemicals, they are ideal for use in a variety of applications and, when combined with our ULTRA3 pipes, can create an approved system for commercial and non-adoptable projects.

#### **RANGE 100/110MM**

COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET COUPLER		01824B20D
SLIP COUPLER		01824B20DSC
BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° SHORT RADIUS BEND	01824B29	
30° SHORT RADIUS BEND	01824B27	
45° SHORT RADIUS BEND	01824B25	01824B25D
87.5° SHORT RADIUS BEND	01824B23	
87.5° LONG RADIUS SWEPT BEND	01824B23X	01824B23DX



EQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° JUNCTION	01824B33	01824B33D
87.5° SWEPT JUNCTION	01824B30	01824B30D

# **BTN PRODUCT RANGE**

### RANGE 150/160MM



COUPLERS:	SINGLE SOCKET:	DOUBLE SOCKET:
SOCKET COUPLER		01826B20D
SLIP COUPLER		01826B20DSC



BENDS:	SINGLE SOCKET:	DOUBLE SOCKET:
15° SHORT RADIUS BEND	01826B29	
30° SHORT RADIUS BEND	01826B27	
45° SHORT RADIUS BEND	01826B25	01826B25D
87.5° SHORT RADIUS BEND	01826B23	
87.5° LONG RADIUS SWEPT BEND	01826B23X	01826B23DX



EQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° JUNCTION	01826B33	01826B33D
87.5° SWEPT JUNCTION	01826B30	01826B30D



UNEQUAL JUNCTIONS:	DOUBLE SOCKET:	TRIPLE SOCKET:
45° UNEQUAL SWEPT JUNCTION (160X110MM)	018264B33	018264B33D
87.5° UNEQUAL SWEPT JUNCTION (160X110MM)	018264B30	018264B30D



REDUCER:	SINGLE SOCKET:	DOUBLE SOCKET:
LEVEL INVERT REDUCER (160/110MM)	018264BT	

# **AXEDO**<sup>®</sup> INSPECTION CHAMBERS

### **AXEDO® INSPECTION CHAMBERS**



AXEDO® is part of the DYKA system for water management and offers a comprehensive range of non-man entry inspection chambers for drain or sewer systems. The AXEDO range is highly adaptable and suitable for applications from residential building plots to agricultural and industrial use.

Designed to provide non-man access for maintenance and inspection of pipe systems, AXEDO helps ensure the safety of installers, maintenance operatives and engineers by preventing unsafe physical access.

AXEDO bases can be installed up to 3m deep for adoptable installations across the UK or up to 6m in non-adoptable.

AXEDO is manufactured by DYKA, a sister company of JDP, to the highest standards from high-quality polypropylene, ensuring that it is light, strong, and highly resistant to chemicals.

### COMPLIANT & ADOPTABLE NATIONWIDE

The whole DYKA system, including AXEDO, is the ideal choice for Adoptable installations across the whole of mainland UK. In addition, AXEDO is suitable for use as boundary or demarcation chambers with strong environmental and safety credentials. AXEDO is one complete solution, fully compliant with Sewers for Scotland, Sewers for Adoption (Wales) and Design and Construction Guidance (England).

### **TECHNICAL SUPPORT:**

### 01228 794445 technical.support@jdpipes.co.uk

JDP's Technical Department is on call or just an email away for questions, support with first-class, customer-focused advice, and help with drawings and specifications you may have on your project. Whether you need a simple take-off or a complete system design, we have the knowledge and experience to help. The AXEDO range is a key item that can be used to help savings on site. The Technical Support team can advise whether an AXEDO IC can be installed on your site and still comply with regulations. By reviewing site layout drawings and/or schedules, the Technical Support team provide value engineering, which is one of the many reasons JDP customers relish working with them. They add value to their plans by reducing cost, increasing efficiency or both.

> Our AXEDO range is kitemarked to BS EN 13598-2, making it fully adoptable across the UK.



### **FEATURES & BENEFITS**

SAFE	Working in confined spaces, especially underground, is dangerous. AXEDO helps businesses, designers, engineers, and installers to ensure the safety of maintenance and inspection personnel by preventing man-access while facilitating work.
FAST	Typically 4x faster to install than concrete, AXEDO needs less excavation and infill, and is highly configurable to adapt to your projects. Compared to other solutions, gang hours on-site can be reduced by up to 75%.
ADOPTABLE	AXEDO is a strong, lightweight solution with high chemical resistance, making it ideal for adoptable residential, agricultural, and industrial use nationwide. While reducing man-access increases safety, it does not reduce effectiveness. AXEDO chambers are specifically designed to facilitate inspection, rodding, and jetting of connected pipe systems.
RESISTANT	The AXEDO is manufactured using 100% polypropylene, making it fully recyclable. As polypropylene is extremely robust, it keeps any damage to the AXEDO to a minimum, allowing for a comfortable lifespan of 100+ years. It also has a high resistance to common chemicals, which can erode or degrade other materials.
SUSTAINABLE	AXEDO is lighter to transport, lowering delivery costs, reducing heavy machinery needs and cutting work hours on-site to install. This can significantly reduce costs and carbon emissions while delivering a 100-year lifespan.

### **AXEDO VS CONCRETE**

Plastic inspection chambers are a lighter (typically sub-25kg), safer alternative to concrete while also providing a long operating life. Precision-engineered PPICs are easyto-handle, modular systems that are faster to install, with the added environmental benefits of having a lower carbon footprint while delivering and installing.

Where man-entry is not required, replacing concrete chambers with plastic chambers guarantees savings without compromising the drainage system quality or legislative compliance.





SCAN QR CODE TO SEE OUR AXEDO VS CONCRETE VIDEO



We offer free, accredited CPD sessions to share our expertise. **Book or** enquire online.

### **COMPATIBLE WITH ULTRA3**

ULTRA3 pipes are supplied pre-sealed, saving time that would otherwise be spent manually fitting seals or replacing lost ones. Light lubrication and a pushfit between the socket and plain ends is all that is required to make a connection. The same is true for the AXEDO connections; lubricate and push-fit. This rapidly creates an airtight network, which is why the DYKA system is arguably the fastest-to-install solution on the UK market.



### **FAST SOLUTION**

AXEDO is a vital part of the DYKA system, working with ULTRA3 dual-purpose drain and sewer pipe to give one complete solution from 110mm upwards. Designed to work together, these DYKA system products keep it simple with only one connection method needed for your entire project, making it ideal for on and off-plot. Not only does this make the DYKA system faster and easier to install, but it also simplifies training with just one procedure to learn across the whole range from 110-630mm.



There's more to a complete drainage system, and JDP is your one-stop-shop. We have a comprehensive range, including covers (load capacity A15-F900), seating rings, cover slabs, restrictor rings and the twinwall shafts to the AXEDO bases.

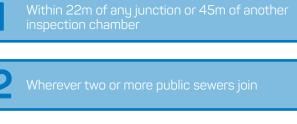
All of these products, and more, are available from JDP as standard, with delivery to sites across mainland UK from our 26 strategically placed branches. What's more, our deliveries are 98% on time and delivered in full, helping to keep your projects running smoothly.

# INSPECTION CHAMBER GUIDANCE

AXEDO is manufactured to the highest standards in our own state-of-the-art factories. This ensures that as a merchant-manufacturer, we have the perfect product for you.

An inspection chamber should be installed for access to the system:

chambers, such as AXEDO, are faster and safer to install, with lower carbon costs in delivery and mechanical handling.



At the head of each length of drain

Where pipes change diameter or materia

At any change of direction, gradient or alignment

Where cleaning the systems is not otherwise possible



If man-entry is not required, plastic inspection

	4	-		
	AXEDO 200	AXEDO 300	AXEDO 450	AXEDO 600
Diameter (mm)	200	300	450	600
SFA7 Compliance	Type 4	Type 4	Туре З	Type 3
DCG	Туре Е	Туре Е	Туре D	Туре D
SFS4 Compliance	1	1	1	1
Other Standards	BS EN 1852	Complies with BS EN 13598-2	BS EN 13598-2 kitemarked	BS EN 13598-2 kitemarked
Cover Types	A15, B125	A15, B125	A15, B125, C250, D400	A15, B125, C250, D400
Max Install Depth to Pipe Soffit	20	2.0	6.0*	6.0*
Inlet Sizes (mm OD)	110,160	110,160	110,160	160, 250, 315, 400
Base Configurations	Straight	Straight with 45° Double Branch	Swept Cross with 2 x 45° Branches	Swept Cross or Straight

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# **AXEDO 200**





### **FEATURES & BENEFITS**

- 200mm diameter base
- 110 and 160mm (OD) inlet sizes
- SfA7 Type 4
- DCG Type E compliant
- SfS4 Section 4.2.32 compliant
- Install up to 2 metres

- A15 and B125 cover types
- Direct connection to ULTRA3
   pipework
- Adaptable to most pipe types using separate adaptors available from JDP
- Stabilising feet and ribs for additional strength and ease of installation

### **PRODUCT RANGE**

#### BASE COMPONENTS

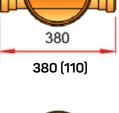
BASE	ND (MM)	OD (MM)	PRODUCT CODE:
STRAIGHT	100	110	02080028811
	150	160	02080028821

#### Complies with BS EN 13598-2

#### SHAFT

HEIGHT (M)	ND (MM)	OD (MM)	PRODUCT CODE:
1.0	185	200	02080020001
2.0	185	200	02080020002

#### Shaft certified to BS EN 13476-2



Straight



B125 300mm Dia or 300mm x 300mm Cover & Frame 150mm Concrete collar 200 0D 200mm EN 1401 Shaft DOT Type 1 Sub base or Concrete Surround

LANDSCAPED AREAS

### **TECHNICAL DRAWINGS**

Drawings compliant with adoptable applications. For non-adoptable applications, select "as dug" material can be used as backfill.

# **AXEDO 300**





### **FEATURES & BENEFITS**

- 300mm diameter base
- 110 and 160mm (OD) inlet sizes
- SfA7 Type 4
- DCG Type E compliant
- SfS4 Section 4.2.32 compliant
- Install up to 2 metres
- A15 and B125 cover types

- Direct connection to ULTRA3 pipework
- Adaptable to most pipe types using separate adaptors and fittings available from JDP
- Stabilising feet and ribs for additional strength and ease of installation

### **PRODUCT RANGE**

#### BASE COMPONENTS

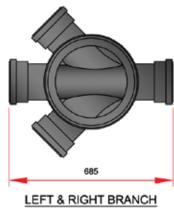
BASE	ND (MM)	OD (MM)	PRODUCT CODE:
45° Branch	100	110	02080034111
	150	160	02080034112

#### Complies with BS EN 13598-2

#### SHAFT SYSTEM

One piece construction. Use up to 3m in adoptable systems or up to 6m in non-adoptable systems.

HEIGHT (M)	ND (MM)	OD (MM)	PRODUCT CODE:
1.0	300	355	02080030001
2.0	300	355	02080030002



45° Branch

AVAILABLE FOR 110mm & 160mm









### **FEATURES & BENEFITS**

- 450mm diameter base
- 110 and 160mm (OD) inlet sizes
- Certified (Kitemarked) to BS EN
  13598-2
- SfA7 Type 3
- DCG Type D compliant
- SfS4 Section 4.2.32 compliant
- Install up to 3 metres (adoptable)

- Install up to 6 metres (nonadoptable)
- A15, B125, C250 and D400 cover types
- Direct connection to ULTRA3
   pipework
- Adaptable to most pipe types using separate adaptors available from JDP
- Stabilising feet and ribs for additional strength and ease of installation

### PRODUCT RANGE

#### BASE COMPONENTS

BASE	45° INLETS	90° INLETS	PRODUCT CODE:
110MM SWEPT CROSS WITH 110MM 45° DOUBLE BRANCH	110MM	110MM	02080048078
160MM SWEPT CROSS WITH 110MM 45° DOUBLE BRANCH	110MM	160MM	02080048079

### Kitemarked to BS EN 13598-2

### SHAFT SYSTEM

One piece construction. Use up to 3m in adoptable systems or up to 6m in non-adoptable systems.

HEIGHT (m)	ND (mm)	OD (mm)	PRODUCT CODE:
1.5	450	512	02080040001
3.0	450	512	02080040002
6.0	450	512	0425450TPU
RISER	450		01024DLMR

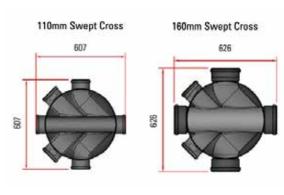
Standard risers, instead of onepiece shafts, may be used to build to the required height, up to 2m in adoptable and non-adoptable systems.

#### Shaft certified HAPAS BBA



SHAFT ADAPTOR	020820048769
SHAFT SEALING RING	02080040010
SHAFT RESTRICTOR RING	01024DLMRR

Adaptor kitemarked to BS EN 13598-2 Full range of covers and frames available upon request from JDP.



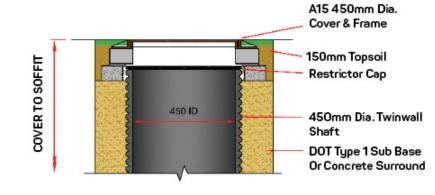
#### AXEDO COVER OPTION

AXEDO COVER:	PRODUCT CODE:
AXEDO 450 SQUARE COVER 350DIA RESTRICTOR & SLEEVE	02084DLMCS



### **TECHNICAL DRAWINGS**

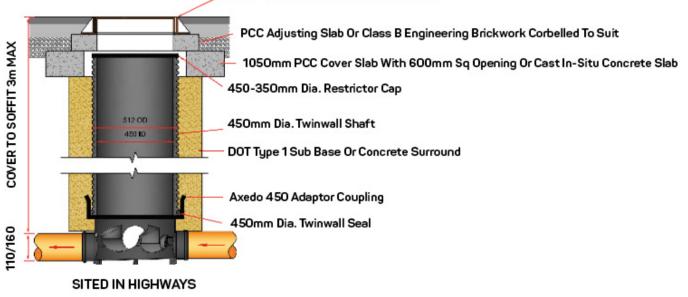
Drawings compliant with adoptable applications. For non-adoptable applications, select "as dug" material can be used as backfill + max depth to fill.



#### SITED IN DOMESTIC GARDENS

B125 450mm x 450mm Cover & Frame PCC Adjusting Slab Or Class B Engineering Brickwork Corbelled To Suit 1050mm PCC Cover Slab With 600mm Sq Opening Or Cast In-Situ Concrete Slab 450-350mm Dia. Restrictor Cap 450mm Dia. Twinwall Shaft DOT Type 1 Sub Base Or Concrete Surround Axedo 450 Adaptor Coupling 450mm Dia. Twinwall Seal SITED IN DRIVEWAYS/PAVED AREAS

D400 450mm x 450mm Cover & Frame









### **FEATURES & BENEFITS**

- 600mm diameter base
- 160, 250, 315 and 400mm (OD) pipework
- · Certified (Kitemarked) to BS EN 13598-2
- SfA7 Type 3
- DCG Type D compliant
- · SfS4 Section 4.2.32 compliant
- Install up to 3 metres (adoptable)

- Install up to 6 metres (nonadoptable)\*
- A15, B125, C250 and D400 cover types
- Direct connection to ULTRA3 pipework
- · Adaptable to most pipe types using separate adaptors and fittings available from JDP

### **PRODUCT RANGE**

**BASE COMPONENTS** 

	PIPE DIAMETER ID/OD (MM)			
BASE	150/160	225/250	300/315	375/400
STRAIGHT	020820048418	020820048419	020820034238	020820034241
SWEPT CROSS	020820048421	020820048422	020820048423	

Kitemarked to BS EN 13598-2



#### SHAFT SYSTEM

One piece construction. Use up to 3m in adoptable systems or up to 6m in non-adoptable systems.

HEIGHT (M)	ND (MM)	OD (MM)	PRODUCT CODE:
1.5	600	678	02082090001
3.0	600	678	02082090003
6.0	600	678	0425600TPU

Shaft certified HAPAS BBA



Straight



739 (250) 739 (400) Swept Cross

739 (250)

739 (315)

SHAFT SEALING RING	02082090010		
600MM RESTRICTOR RING	02082090011		
CONCRETE COVER SLAB (SQUARE OPENING)	18011050CS750		
600MM SEATING RING	1801600SEATRING		
675MM SEATING RING	1801675SEATRING	732 (160)	732 (160)

ΗΔΡΔS

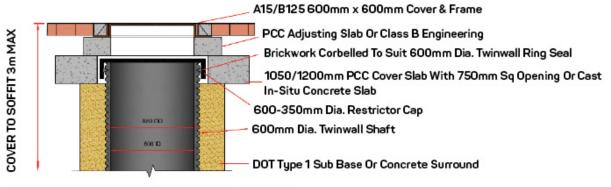


### **TECHNICAL DRAWINGS**

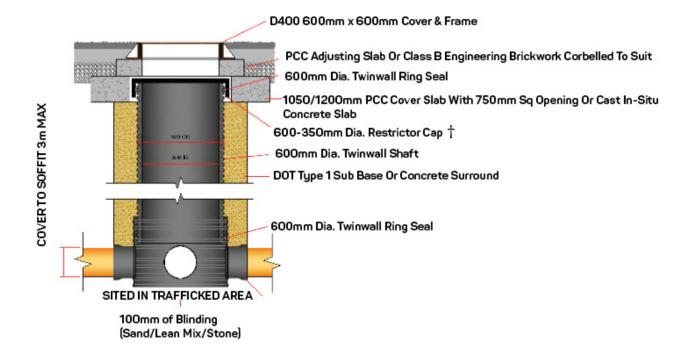
Drawings compliant with adoptable applications. For non-adoptable applications, select "as dug" materialmaterial can be used as backfill + 6 meters deep installation.

# SCAN QR CODE FOR INSTALLATION VIDEO





#### SITED IN LANDSCAPED/PAVED/DRIVEWAY AREA



† Restrictor ring required for installations greater than 1.2m according to Building Regulations or greater than 1m according to SfA7/DCG to restrict access.

# AXEDO PRODUCT RANGE

### ADAPTORS





AXEDO CLAY ADAPTORS:	PRODUCT CODE:
AXEDO 250X225 SPIGOT & SOCKET NAYLOR CLAY ADAPTOR	02082083NAY
AXEDO 315 X 300 SPIGOT & SOCKET NAYLOR CLAY ADAPTOR	02082084NAY



AXEDO ADAPTORS:	PRODUCT CODE:
AXEDO 250MM - 110MM LEVEL INVERT REDUCER	02082083EN110
AXEDO 250MM - 160MM LEVEL INVERT REDUCER	02082083EN160
AXEDO 315MM - 110MM LEVEL INVERT REDUCER	02082084EN110
AXEDO 250MM X 225MM SPIGOT & SOCKET JFC ADAPTOR	02082083JFC
AXEDO 315MM X 300MM SPIGOT & SOCKET JFC ADAPTOR	02082084JFC
AXEDO 250MM X 150MM SPIGOT X SOCKET JFC ADAPTOR	02082083JFC150
AXEDO 315MM X 150MM SPIGOT X SOCKET JFC ADAPTOR	02082084JFC150
AXEDO 315MM X 225MM SPIGOT X SOCKET JFC ADAPTOR	02082084JFC225
AXEDO 160 X 150 SPIGOT X SOCKET HEPWORTH CLAY ADAPTOR (UG459)	02082080HEP
AXEDO 160 X 150 SPIGOT X SOCKET NAYLOR CLAY ADAPTOR	02082081NAY
AXEDO 160 X 150 SPIGOT X SOCKET POLYSEWER ADAPTOR	02082081PS
AXEDO 160 X 150 SPIGOT X SOCKET UNIVERSAL TWINWALL	02082081TW
AXEDO 160 X 150 SPIGOT X SOCKET U RIB ADAPTOR	02082081UR
AXEDO 250 X 225 SPIGOT X SOCKET HEPWORTH CLAY ADAPTOR	02082083HEP
AXEDO 250 X 225 SPIGOT X SOCKET METRO DRAIN CLAY Adaptor	02082083MET
AXEDO 250 X 150 SPIGOT X SOCKET METRO DRAIN T/W ADAPTOR	02082083MET150
AXEDO 250 X 225 SPIGOT X SOCKET POLYPIPE TWINWALL ADAPTOR	02082083PP
AXEDO 250 X 225 SPIGOT X SOCKET U RIB ADAPTOR	02082083UR
AXEDO 315MM - 160MM LEVEL INVERT REDUCER SPIGOT X SPIGOT	02082084EN160
AXEDO 315 X 300 SPIGOT X SOCKET HEPWORTH CLAY ADAPTOR	02082084HEP
AXEDO 315 X 300 SPIGOT X SOCKET METRO DRAIN TWINWALL ADAPTOR	02082084MET
AXEDO 315 X 150MM SPIGOT X SOCKET METRO DRAIN TWINWALL ADAPTOR	02082084MET150
AXEDO 315 X 225MM SPIGOT X SOCKET METRO DRAIN TWINWALL ADAPTOR	02082084MET225
AXEDO 315 X 300MM SPIGOT X SOCKET POLYPIPE TWINWALL ADAPTOR	02082084PP
AXEDO 315 X 300MM SPIGOT X SOCKET POLYSEWER ADAPTOR	02082084PS
AXEDO 315 X 300MM SPIGOT X SOCKET U RIB ADAPTOR	02082084UR
AXEDO FLEX COUPLER WITH SPIGOT 160MM	020872120692000
AXEDO FLEX COUPLER WITH SPIGOT 250MM	020872120902000
AXEDO FLEX COUPLER WITH SPIGOT 315MM	020872121022000

# **RAINBOX®** GEOCELLULAR CRATE SYSTEMS

# rainbox geocellular crate system

Traditionally, solutions such as ponds or swales have been used. However, in recent years, geocellular crate systems have become more popular. These interlocking crates can be used to form underground soakaway or attenuation tanks that aid surface water drainage in various applications.

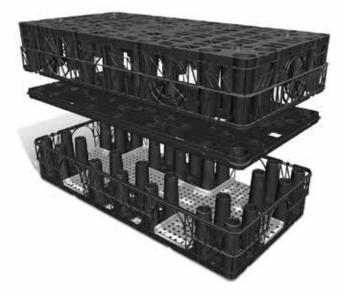
Sustainable Drainage Systems (SuDS) have become a major part of nearly all construction projects in the UK.

As experts in drainage and water management, JDP uses cutting-edge technology, accurate rainfall data, topography and ground condition reports research and develop high-performance products and provide specialist design and support for projects involving surface water drainage and stormwater management.

The challenge for planners and contractors demands a completely integrated approach that combines multiple products to create a water management system to protect property and the environment from the harmful effects of flooding.

The RAINBOX system, manufactured by DYKA Group, a sister company of JDP, is the next generation of geocellular crates.

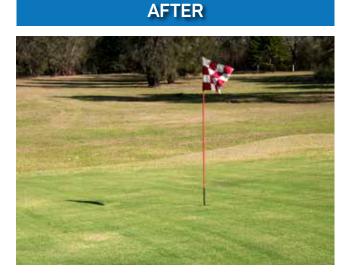
A holistic approach to these systems ensures operational efficiency, effectiveness, legislative compliance and the ability to manage increased volumes of rainfall.



### FLOOD & WATER MANAGEMENT LEGISLATION

Local authorities require the majority of developments to install an effective water management system that displaces the same amount of water as the predevelopment rate of evapotranspiration, under the Flood & Water Management Act (England & Wales) 2010 and the Flood Risk Management Act (Scotland) 2009. JDP can assist with system design, legislative compliance, calculations and reports for your project with its experienced in-house Technical Support team.





# HOW DOES URBANISATION CAUSE FLOODING?

As our towns and cities continue to grow, construction on undeveloped land increases the likelihood of flooding. The ground's natural ability to soak in water from storms and persistent rain (as well as vegetation in the area and atmospheric evaporation) is a process named evapotranspiration. Replacing soft, permeable ground with impermeable construction materials reduces the efficiency of this process, leaving water to pool on the surface and cause localised flooding as it can't soak into the ground.

This type of flooding can also have a dramatic impact on river levels and cause greater downstream flooding as it creates faster, high-volume run-off towards sewer networks and open watercourses. Drainage systems, silt traps & filters, interceptors, storage systems, flow controls and headwalls can be combined to create a Sustainable Drainage System (SuDS) that collects and slowly releases stormwater back into the environment at a rate in line with the pre-development run-off expectance.

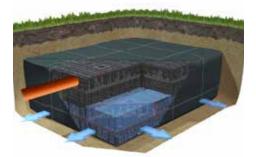
# HOW DOES RAINBOX® HELP?

As geocellular crates, RAINBOX® systems act as an underground reservoir to collect water through drainage systems from storms and persistent rain to prevent flooding.

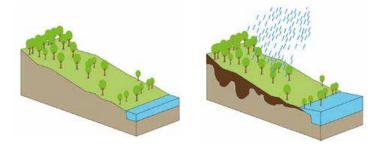
In an attenuation scheme, water is stored within the system and, with flow controls, is slowly released back into a watercourse or drainage system.

In soakaway schemes, the system is wrapped with a permeable membrane. Water is collected and slowly soaks back into the ground through an infiltration process.

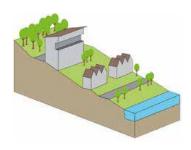
RAINBOX<sup>®</sup> systems offer developers and contractors full flexibility with a range of products that provide non-trafficked and trafficked grades of up to 30 tonne which include bespoke hybrid systems to suit almost any application.

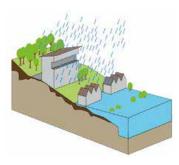


#### PRE DEVELOPMENT FLOODING



#### POST DEVELOPMENT FLOODING





SOAKAWAY

## WATERCOURSE

## SURFACE WATER DRAIN

# **COMBINED SEWER**

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# ASSEMBLY

RAINBOX® 3SR crates should be assembled in accordance to the installation guide available from JDP Technical Support and wrapped in a suitable membrane and protective fleece if required.

RAINBOX<sup>®</sup> 3SR crates are assembled quickly. Crates arrive on site semi flat packed on pallets consisting of two half boxes and an intermediary plate. Boxes and plates simply snap together. Pallets are stacked so that construction is an efficient process.

Interlocking crates are joined together using a minimum of two clips per contact side (double clips between layers).

Pipework is connected to the system with cutouts on the side faces of a crate. Adaptors are required for DN200, 225, 250, 300 & 400 pipework.

The completed RAINBOX crates can connect to each other using specially designed clips to form one homogenous tank.

### MAINTENANCE

RAINBOX<sup>®</sup> 3SR systems are suitable for water jetting with a pressure setting of 120 bar.

An inspection access point can be cut into the side face of a RAINBOX® 3SR crate. Channels are then cut into further crates as required (see Fig. 1) to create an inspectable system.

# INSTALLATION

### **EARTHWORKS - FORMATION LEVEL**

The excavation will be done according to current best practices relating to open cut earthworks.

The set-up is as follows:

- For soakaway Horizontal formation level
- For attenuation Sloping formation level between 0.5% and 1% linear crate structure may require some partitioning.

#### **FLATNESS TOLERANCE**

• Generally, 0.1% of the crate structure's length in a range between 2cm and 5cm.

#### **INSTALLATION BED**

This is a 100mm bed of filler materials (sand, gravel or any other material satisfying the criteria for soil) adjusted as per the parameters for the formation level (outlined above). Sharp objects, large stones or other foreign objects should be removed.

#### **DELIVERY, HANDLING & STORAGE**

The RAINBOX® 3SR crates are packed on pallets.

- They should be unloaded with a forklift truck or manually if unpacked.
- They should be stored on a flat and clean surface.
- Will be packed on pallets of 10 (per pallet).

For longer storage periods (several months), it is advisable to store them away from direct sunlight.

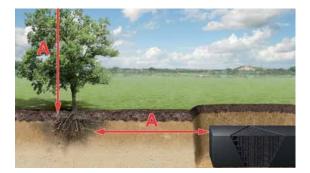
#### **ROOT INGRESS PREVENTION**

Where there are trees, plants or other vegetation near to the crate structure, a root barrier geotextile must be utilised. This should be done when the crate structure is at a distance less than or equal to the height of the vegetation when mature.











SCAN QR CODE TO SEE OUR RAINBOX INSTALLATION VIDEO

# rainbox 35R



### APPLICATION

### **FEATURES & BENEFITS**

- Storage capacity 287L
- Crate weight: 13.5kg
- Efficient pallet stacking creates space savings on-site & during transport, reducing CO emissions
- Maximum installation depth of 4.0m
- Fully inspectable & Jettable
- 100% Recyclable
- Only need approx. 3.3 units to get 1
   meter of storage



Gardens & Landscape Areas

### SPECIFICATION



Driveways



Caravan Parks & Recreation Parks



Car Parks

DIMENSIONS	1200 X 600 X 420MM
GROSS VOLUME	302L
STORAGE VOLUME	287L
VOID RATIO	95%
MATERIALS	RECYCLED POLYPROPYLENE
RECYCLABLE	100%
APPROX WEIGHT	13.5KG
INSPECTABLE	YES

Installation minimums and maximums are determined by vertical loading (backfill and loads linked to operations) and horizontal loading (determined by the pressure exerted by the earth). This varies due to application and ground conditions. Please contact JDP Technical Support for more information and detailed calculations for your project.

		Load (GVW)		
	Pedestrians	Small Vehicles ≤ 3T	Vehicles ≤ 12T	Vehicles ≤ 30T
(bas	Coverage sed on backfill φ' 30° a			
Min.	0.30	0.50	0.9	1.2
Max.	2.50	2.5	2.4	2.2
	Max Excavation	Depth in m		
with backfill 20°	3.5	3.3	3.0	3.0
with backfill 25°	4.00	4.00	3.8	3.8
with backill 30°	4.00	4.00	4.00	4.00

The installer of the RAINBOX® 3SR system should ensure that a structural design check in line with CIRIA C680 has been carried out prior to work commencing.

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Details and illustrations in this document are for guidance only. Please contact JDP's Technical Support for more information.

# TECHNICAL SUPPORT TEAM

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# MERCHANT RANGE, MANUFACTURER EXPERTISE

JDP is both your local merchant and the manufacturer of ULTRA3. This gives you access to a unique level of expertise and advice to make your projects run even more smoothly.

# JDP TECHNICAL SUPPORT

### SUPPORT ON CALL

- Advice on call JDP's Technical Department is on call or just an email away for questions and support with first-class, customer-focused advice.
- Technical expertise Whether you need a simple take-off pricing or a complete system design, we have the knowledge and experience to help.
- Value engineering One of the many reasons JDP customers relish working with us is that our Technical Department can add value to their plans by reducing cost, increasing efficiency or both.

#### Technical Support: 01228 794445

JDP is an expert source of advice for water management design. From a simple question to a cutting-edge underground sewer design, the benefits of using JDP's Technical Support Department include:



Take off - Bill of quantities and quotes from existing drawings

- Advice From best practice to regulatory guidance
- Value engineering Cost-effective solutions to improve efficiency

Liaison – Intermediary with consultants, engineers and architects

Design – From scratch design for stormwater attenuation



### HERE WHEN YOU NEED US

Delivering on your promises – JDP has branches with stock in depth nationwide, so you have the support you need on hand. In addition, we deliver to sites every day with 98% on time and in full.





# WHAT WE DO

JDP's technical support team are able to offer advice and assistance for numerous schemes ranging from a drainage take off, to a complete system design using hydraulic modelling software.

Working closely with clients on their drainage projects, the technical support team ensure that all Building Regulations, sewer adoption requirements and any other specifications are met.

Whether the drainage project you are working on is for above or below ground, JDP's technical knowledge, product availability, and in-house design capabilities mean we are a one-stop solutions provider covering virtually any kind of drainage project.

### **TAKE-OFFS OVERVIEW**

Working from existing drawings produced by outside engineers, architects, and the JDP in-house design team, our technical support team perform take-offs and produce accurate bill of quantities broken down into relevant sections, e.g. foul and surface water. The majority of take-offs carried out include a manhole schedule, which details what has been advised for each individual chamber. This can be advantageous when installing a system in phases and certain items are called-off at different stages of the project.

When performing a take-off, the technical support team may also include a page of notes detailing any discrepancies or changes that may have been made. The page of notes and the manhole schedule are crucial to take-offs as these can also indicate any value engineering that has been carried out. The value engineering can consist of many things, all are aimed to create a more cost-effective, time-saving outcome for customers.

### SERVICES

- Drainage take-offs from existing drawings
- Hard landscaping take-offs
- Value-engineered solutions
- SUDS MicroDrainage calculations
- SUDS designs
- Installation drawings
- General enquiries
- Specification assistance
- Information on JDP's product range



JDP Technical Support assists with construction drawings, on-site take offs, drainage system designs, and legislative guidance. To speak to one of our in-house technical experts, please call: 01228 794445

## **VALUE ENGINEERING**

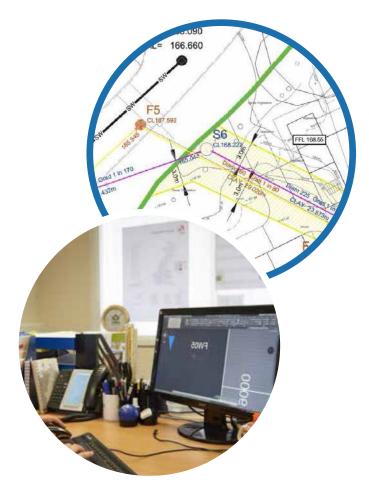
JDP's technical support team are able to offer a value-engineered solution, from a standard takeoff to a full drainage design. Working closely to the specifications required for each project, and also ensuring all necessary Building Regulations and requirements for sewer adoption will be adhered to, allows value engineering to be implemented at the earliest opportunity.

The technical support team can advise a range of products that can be used as equal and approved alternatives to those specified on the drawing.

As well as alternative products, JDP also offer value engineering when reviewing an existing drainage layout. Some designs can be streamlined and still comply with all necessary regulations.

Not all projects can be value-engineered, but where possible, it will be implemented.

These solutions can be the difference in whether a project is under budget or can be completed and signed off within its timescale, which is beneficial to all stakeholders involved in the project.



### DESIGN OVERVIEW

Our technical support team are able to assist with multiple aspects when it comes to gravity drainage design. Ranging from re-designing existing SUDS systems into more practical solutions to brand-new drainage designs for small residential developments or large commercial projects.

To allow for a smoother process, the technical support team can work alongside the Environment Agency and lead Local Flood Authority and Building Control to ensure designs meet the necessary standards and are exactly what a customer requires.

### SERVICES

- Hydraulic modelling design
- Attenuation & soakaway sizing
- CAD installation drawings
- Storm/foul water CAD layouts
- RAINBOX structural calculations
- Alternative manhole schedules
- Greenfield run-off rates

# **FABRICATION** DEPARTMENT

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At JDP, we can offer a unique in-house service with our fabrication department. With 11 years' experience, topof-the-range equipment and premium quality raw materials, we can offer a service that many others can't. We can weld any Polypropylene or Polyethylene using our double-welded extrusion welding technique. Using this technique, and high-end market leading equipment, gives us consistent, quality welds and products which are extremely durable and high strength.

All our items are manufactured to the exact same high standards every single time. Our consistent level of production and workmanship guarantees you the best possible product for your requirements.

### WE CAN CONNECT DIFFERENT PIPE SYSTEMS

Let us connect you – we can connect a variety of different pipe systems including, ULTRA3, Sewer, Twinwall, Ducting, Above Ground and Clay. Let us solve your problem while saving you time and money.

### COMPATIBLE WITH ALL IN-HOUSE PRODUCTS

All our fabrications are fully compatible with all our in-house products, including ULTRA3 and AXEDO. This makes us a one-stop shop for most of your pipe needs and solutions.

### COMPATIBLE WITH ALL OUR STOCKED PRODUCTS

Our fabrication range is compatible with all pipe systems stocked in our yards. These include our Twinwall ranges, clay, and our range of ducting and above ground.



### LARGE DIAMETER TWINWALL BENDS AND JUNCTIONS

The perfect solution for all your large diameter twinwall needs. Full ranges of bends, junctions and reducers are available. A perfect, lightweight, cost-friendly alternative to manholes where access is not required. Available off the shelf. Talk to us about your requirements.

A popular problem solver for various sites and building needs. Let us know what you're using, and we'll create your junctions to make connecting different pipe systems as simple and cost-effective as possible.

### READILY AVAILABLE NATIONWIDE

With substantial stock holdings in our branches and Distribution Centre, our products are always readily available for shipping or collection. Enjoy nationwide delivery or conveniently pick up your items at any of our branches.

### DO YOU KNOW ABOUT SILT TRAPS?

JDP has a wide range of silt traps available, and our team is always ready to answer any of your questions and offer advice if you need help choosing the right one for your project. Contact us today to discuss any of your silt trap needs!

### **CUSTOMIZED SOLUTIONS FOR YOUR UNIQUE NEEDS**

Experience the pinnacle of fabrication innovation with our bespoke silt traps, catch pits, and chambers. Our high-quality solutions cater to diverse needs, from attenuation/soakaway systems to permeable paving distribution boxes. Every product is tailored to your specifications, ensuring optimal functionality and performance. Reach out to us with your requirements, and watch as we bring your vision to life.

At JDP's Fab Shop, we combine cutting-edge technology, unmatched expertise, and a commitment to quality to provide you with the finest fabricated solutions. Whether you're seeking seamless pipe connections, large diameter twinwall alternatives, or custom silt traps, we're here to exceed your expectations. Get in touch with us today to transform your projects into works of excellence.

#### ALL TWINWALL FITTINGS TO SUIT JFC/CHERRY TWINWALL



15° TWINWALL BENDS:	PRODUCT CODE:
225MM TWINWALL 15° BEND	0425FAB225X15TB
300MM TWINWALL 15° BEND	0425FAB300X15TB
375MM TWINWALL 15° BEND	0425FAB375X15TB
450MM TWINWALL 15° BEND	0425FAB450X15TB
600MM TWINWALL 15° BEND	0425FAB600X15TB



30° TWINWALL BENDS:	PRODUCT CODE:
225MM TWINWALL 30° BEND	0425FAB225X30TB
300MM TWINWALL 30° BEND	0425FAB300X30TB
375MM TWINWALL 30° BEND	0425FAB375X30TB
450MM TWINWALL 30° BEND	0425FAB450X30TB
600MM TWINWALL 30° BEND	0425FAB600X30TB

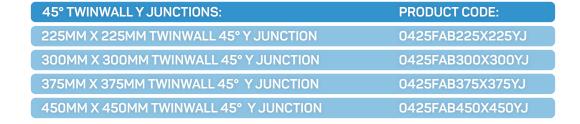
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45° TWINWALL BENDS:	PRODUCT CODE:
225MM TWINWALL 45° BEND	0425FAB225X45TB
300MM TWINWALL 45° BEND	0425FAB300X45TB
375MM TWINWALL 45° BEND	0425FAB375X45TB
450MM TWINWALL 45° BEND	0425FAB450X45TB
600MM TWINWALL 45° BEND	0425FAB600X45TB

90° TWINWALL BENDS:	PRODUCT CODE:
225MM TWINWALL 90° BEND	0425FAB225X90TB
300MM TWINWALL 90° BEND	0425FAB300X90TB
375MM TWINWALL 90° BEND	0425FAB375X90TB
450MM TWINWALL 90° BEND	0425FAB450X90TB
600MM TWINWALL 90° BEND	0425FAB600X90TB









#### ALL TWINWALL FITTINGS TO SUIT JFC/CHERRY TWINWALL



45° TWINWALL Y REDUCER JUNCTIONS:	PRODUCT CODE:
225MM X 150MM TWINWALL 45° Y JUNCTION	0425FAB225X150YJ
300MM X 150MM TWINWALL 45° Y JUNCTION	0425FAB300X150YJ
300MM X 225MM TWINWALL 45° Y JUNCTION	0425FAB300X225YJ
375MM X 100MM TWINWALL 45° Y JUNCTION	0425FAB375X100YJ
375MM X 150MM TWINWALL 45° Y JUNCTION	0425FAB375X150YJ
375MM X 225MM TWINWALL 45° Y JUNCTION	0425FAB375X225YJ
375MM X 300MM TWINWALL 45° Y JUNCTION	0425FAB375X300YJ





90° TWINWALL T JUNCTIONS: PRO	ODUCT CODE:
300MM X 300MM TWINWALL 90° T JUNCTION 044	25FAB300X300TJ
375MM X 375MM TWINWALL 90° T JUNCTION 043	25FAB375X375TJ
450MM X 450MM TWINWALL 90° T JUNCTION 043	25FAB450X450TJ

90° TWINWALL T REDUCER JUNCTIONS:	PRODUCT CODE:
225MM X 150MM TWINWALL 90° T JUNCTION	0425FAB225X150TJ
300MM X 150MM TWINWALL 90° T JUNCTION	0425FAB300X150TJ
300MM X 225MM TWINWALL 90° T JUNCTION	0425FAB300X225TJ
375MM X 100MM TWINWALL 90° T JUNCTION	0425FAB375X100TJ
375MM TW X 110MM SPIGOT 90° T JUNCTION	0425FAB375X110TJ
375MM X 150MM TWINWALL 90° T JUNCTION	0425FAB375X150TJ
375MM TW X 160MM SPIGOT 90° T JUNCTION	0425FAB375X160TJ
375MM X 225MM TWINWALL 90° T JUNCTION	0425FAB375X225TJ
375MM X 300MM TWINWALL 90° T JUNCTION	0425FAB375X300TJ



TWINWALL ATTENUATION TOP HATS:	PRODUCT CODE:
150MM TWINWALL ATTENUATION TOP HAT	1122TOPHAT150
225MM TWINWALL ATTENUATION TOP HAT	1122TOPHAT225
300MM TWINWALL ATTENUATION TOP HAT	1122TOPHAT300



TWINWALL END CAPS:	PRODUCT CODE:
150MM TWINWALL END CAP	0425FAB150EC
225MM TWINWALL END CAP	0425FAB225EC
300MM TWINWALL END CAP	0425FAB300EC
375MM TWINWALL END CAP	0425FAB375EC
600MM TWINWALL END CAP	0425FAB600EC
450MM TWINWALL END CAP	0425FAB450EC

#### ALL TWINWALL FITTINGS TO SUIT JFC/CHERRY TWINWALL



TWINWALL FLAP VALVES:	PRODUCT CODE:
150MM TWINWALL FLAP VALVE	0425FAB150FV
225MM TWINWALL FLAP VALVE	0425FAB225FV
300MM TWINWALL FLAP VALVE	0425FAB300FV

#### TO BE CONTINUED...

600MM TWINWALL JUNCTIONS:	PRODUCT CODE:
600MM - 150MM/225MM TWINWALL JUNCTION (T OR Y)	0425FAB600X225TWJ
600MM - 300MM/375MM TWINWALL JUNCTION (T OR Y)	0425FAB600X375TWJ
600MM - 450MM/600MM TWINWALL JUNCTION (T OR Y)	0425FAB600X600TWJ

TWINWALL REDUCERS:	PRODUCT CODE:
150MM X 110MM TWINWALL LEVEL INVERT REDUCER	0425FAB150X110TR
225MM X 150MM TWINWALL LEVEL INVERT REDUCER	0425FAB225X150TR
300MM X 150MM TWINWALL LEVEL INVERT REDUCER	0425FAB300X150TR
300MM X 225MM TWINWALL LEVEL INVERT REDUCER	0425FAB300X225TR
225MM - 94/110MM TWINWALL REDUCER	0425FAB225X94TR
300MM X 94/110MM TWINWALL REDUCER	0425FAB300X94TR
375MM X 100MM TWINWALL REDUCER	0425FAB375100TR
375MM X 150MM TWINWALL REDUCER	0425FAB375150TR
375MM X 225MM TWINWALL REDUCER	0425FAB375225TR
375MM X 300MM TWINWALL REDUCER	0425FAB375300TR
450MM - 150MM TWINWALL REDUCER	0425FAB450X150TR
450MM - 225MM TWINWALL REDUCER	0425FAB450X225TR
450MM - 300MM TWINWALL REDUCER	0425FAB450X300TR
450MM - 375MM TWINWALL REDUCER	0425FAB450X375TR
600MM - 150MM TWINWALL REDUCER	0425FAB600X150TR
600MM - 225MM TWINWALL REDUCER	0425FAB600X225TR
600MM - 300MM TWINWALL REDUCER	0425FAB600X300TR
600MM - 375MM TWINWALL REDUCER	0425FAB600X375TR
600MM - 450MM TWINWALL REDUCER	0425FAB600X450TR



375MM TW X 160MM SPIGOT REDUCER

	PRODUCT CODE:
ER	0425FAB150X110R
CER	0425FAB225X110R

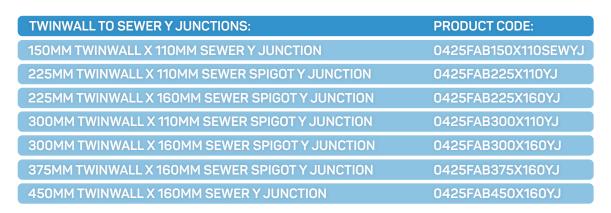
0425FAB225X160R 0425FAB300X110R 0425FAB300X160R 0425FAB375110R

#### ALL TWINWALL FITTINGS TO SUIT JFC/CHERRY TWINWALL

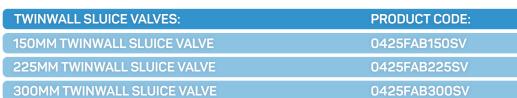


TWINWALL TO SEWER T JUNCTIONS:	PRODUCT CODE:
150MM TWINWALL X 110MM SEWER T JUNCTION	0425FAB150X110SEWTJ
225MM TWINWALL X 110MM SEWER SPIGOT T JUNCTION	0425FAB225X110TJ
225MM TWINWALL X 160MM SEWER SPIGOT T JUNCTION	0425FAB225X160TJ
300MM TWINWALL X 110MM SEWER SPIGOT T JUNCTION	0425FAB300X110TJ
300MM TWINWALL X 160MM SEWER SPIGOT T JUNCTION	0425FAB300X160TJ
300MM TWINWALL X 160MM SEWER SPIGOT T JUNCTION	0425FAB300X160TJ
450MM TWINWALL X 160MM SEWER SPIGOT T JUNCTION	0425FAB450X160TJ









TWINWALL T REDUCER JUNCTIONS:	PRODUCT CODE:
150MM X 110MM TWINWALL T JUNCTION	0425FAB150X110TJ
225MM X 94/110MM TWINWALL T JUNCTION	0425FAB225X94TJ
300MM X 94/110MM TWINWALL T JUNCTION	0425FAB300X94TJ
450MM - 150MM TWINWALL T JUNCTION	0425FAB450X150TJ
450MM - 225MM TWINWALL T JUNCTION	0425FAB450X225TJ
450MM - 300MM TWINWALL T JUNCTION	0425FAB450X300TJ
450MM - 375MM TWINWALL T JUNCTION	0425FAB450X375TJ



TWINWALL Y REDUCER JUNCTIONS:	PRODUCT CODE:
150MM X 110MM TWALL Y JUNCTION	0425FAB150X110YJ
225MM X 94/110MM TWINWALL Y JUNCTION	0425FAB225X94YJ
300MM X 94/110MM TWINWALL Y JUNCTION	0425FAB300X94YJ
450MM - 150MM Y JUNCTION	0425FAB450X150YJ
450MM - 225MM Y JUNCTION	0425FAB450X225YJ
450MM - 300MM Y JUNCTION	0425FAB450X300YJ
450MM - 375MM Y JUNCTION	0425FAB450X375YJ

#### **ULTRA3 PRODUCTS**



ULTRA3 ATTENUATION TOP HATS:	PRODUCT CODE:
110MM ULTRA-3 ATTENUATION TOP HAT	1122T0PHAT110
160MM ULTRA-3 ATTENUATION TOP HAT	1122TOPHAT160
250MM ULTRA-3 ATTENUATION TOP HAT	1122TOPHAT250
315MM ULTRA-3 ATTENUATION TOP HAT	1122TOPHAT315



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ULTRA3 DRAIN SLUICE VALVES:	PRODUCT CODE:
110MM DRAIN SLUICE VALVE	2001110DSV
160MM DRAIN SLUICE VALVE	2001160DSV

#### **OTHER PRODUCTS**

SAMPLE CHAMBER:	PRODUCT CODE:
250MM DIA X 1M SAMPLE CHAMBER	3001250X1MSCH
SILT TRAPS:	PRODUCT CODE:

600DIA SILT TRAP X 1.5MTR DEEP C/W 3 X 160MM INLET/OUTLET 300101001

# **MORE ABOUT SILT TRAPS**

A silt trap (also known as catchpits) is a method of preventing silt from entering and damaging a soakaway, attenuation, or sewer system. Silt can interfere with a drainage system's ability to remove surface water by clogging pipes or by filling soakaway and attenuation systems, reducing their capacity for holding water.

As silt builds up, the risk that water will not drain away increases. This can lead to flooding on the surface and, ultimately, the drainage system needing to be replaced. Although newer cellular crate systems are much better at avoiding silt problems, they are still susceptible to blockages and damage. Silt traps remain the best method for protecting attenuation systems or soakaways by capturing silt before it can enter the drainage system.



### **FEATURES & BENEFITS**

- Prevents ingress of debris into the structure, extending its useful life
- Lightweight chamber design
- Tough and durable product
- Pre-fabricated off-site and delivered ready to install
- Choice of chamber sizes from 450mm and 900mm (for concrete 1050mm, 1200mm, 1500mm, 1800mm and 2100mm).
- Inlets and outlets supplied with integral sockets as standard
- Provides easy access maintenance points for silt collection prior to the attenuation structure

### HOW DO SILT TRAPS WORK?

There are many different types of silt trap, but the fundamental principle remains the same. Before entering the drainage system, water is directed into the silt trap. As the silt trap fills with water, the silt settles in the sump below the invert of the pipe. When the water level reaches the outlet pipe, it leaves the silt trap and continues to the drainage system, leaving the silt in the sump.

A traditional silt trap is usually built with brick or pre-cast concrete. However, prefabricated plastic silt traps are becoming a lot more common, with options for more advanced filtration systems. Smaller sized prefabricated silt traps contain a basket which collects the silt in the sump and allows for easy removal. Filters allow the water to pass through and leave the silt trap while the silt remains in the sump. Some more advanced silt traps include another filter to the outlet, which helps catch fine particles that have managed to escape the basket.



SCAN THE QR CODE TO GO TO OUR WEBSITE

## WE ALSO SELL







### rainbo geocellular crate system

#### **BRANCH NETWORK**

Inverness	
Inverurie	
Broxburn	
East Kilbride	
Longtown	
Birtley	
Skipton	
Leeds-Bradford	
Manchester	
Bolton	
Alfreton	
Wednesbury	
Northampton	

01463 717818

#### **SALES & PRODUCTS**

📞 SCOTLAND: 01467 633332 NORTH: 01228 792391 SOUTH: 01454 323000

#### **GENERAL ENQUIRIES**

1228 791503 🥪 contact@jdpipes.co.uk

**DYKAGroup** Nature's **Network** 

Colchester Cambridge Havant Ashford Berkhamsted Isle of Wight Carmarthen Hereford Yate Avonmouth Dorchester Launceston

Norwich

#### **TECHNICAL ENQUIRIES**

- 01228 794445
- 😒 technical.support@jdpipes.co.uk

#### ONLINE

- www.jdpipes.co.uk
- 😏 @jdpipes.co.uk
- f /JDPipes.co.uk

organisation operating across 21 countries, our manufacturing capabilities, technical

By continuing to invest in extensive stock levels to ensure local availability of our

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