

# TRADE PRICE LIST

JULY 2023

Cast Iron above & below  
ground drainage systems

> Ensign > Timesaver > VortX

**PAM BUILDING** SPECIALISES IN THE MANUFACTURE OF CAST IRON ABOVE AND BELOW GROUND DRAINAGE SYSTEMS, FOR COMMERCIAL, PUBLIC AND RESIDENTIAL BUILDINGS.

## WE LEAD MARKETS

### IN THE SUPPLY OF:

> **Cast iron soil and rainwater systems, and suspended pipework in basements and car parks and buried under building drainage**

- > Innovative products and processes
- > Specialist engineering services
- > Total technical support

With PAM Building, you can be assured of Quality, Innovation and Technical Expertise at all times.

All parts of our operation have audited quality management systems and fully satisfy BS EN ISO 9001:2015. The majority of products are third-party assessed and approved against all relevant worldwide regulations and standards.



With the international support of parent company Saint-Gobain, we are able to offer unrivalled technical support, a total solution approach and unparalleled quality and innovation. A UK-based business, with one foundry and a distribution centre in the Midlands, we combine international reach with local, specific solutions across all of our customers.

We continually invest time, energy and expertise to create an extensive range of innovative solutions which are easy to install, simple to joint and simply offer better value for money in terms of total life costs.

PAM Building is an international company, which employs around 360 people with sales in more than 50 countries. Our focus is to build on our 150 years of experience in the manufacture of cast iron products, a noble and durable material. We form part of the Saint-Gobain group, which employs over 167,000 people, one of the world's leading multinational organisations for construction materials. This enables us to leverage this history to provide you with excellent products and services.



## CLICK THE LINKS OR SCAN THE QR CODES

Anywhere you see the click icon, you will be able to click the text and go straight to the section/page mentioned in the text. Also all contact details and QR Codes throughout the document on all pages are hyperlinked for your convenience.

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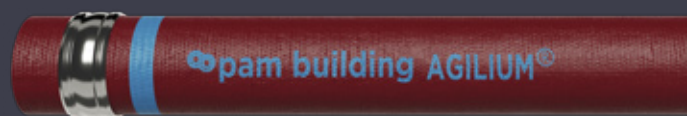
THE BEST PLACE FOR ALL THE LATEST INFORMATION IS OUR WEBSITE:

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

# WHAT'S NEW?



## ENSIGN AGILIUM®



New cast iron drainage solution,  
**30%\* lighter** for easier and faster installation  
**20%\*\* lower CO2e** reducing environmental impact

### LESS CO2e, LIGHTER AND MORE SUSTAINABLE

PAM Building has launched **Ensign Agilium®**, a new, more sustainable solution that helps reduce our environmental impact while facilitating ease of installation. These innovative products are part of our continued sustainable approach and are 100% compatible with existing ranges while maintaining the high standards that you would expect from a PAM Building product.

#### > Environment

Ensign Agilium® cast iron is made of 99% recycled material and is 100% recyclable. Innovations in product design and manufacturing have reduced CO2e emissions by 20%\*\*.

#### > Durability

Due to their exceptional mechanical properties, cast iron drainage systems prevent the need for costly and time-consuming repairs.

#### > Fire safety

Ensign Agilium® cast iron is a non-combustible, A1 rated material that is fire resistant for up to 2 hours protecting people and property.

#### > Acoustic comfort

Our cast iron systems easily meet the industry guidelines. Ensign Agilium® produces airborne noise of 46 dB(A) and structure-borne noise of 13 dB(A) according to EN14366, for a discharge rate of 2 l/s (with the use of our anti-vibration collars and acoustic dampeners).

#### > Total cost of installation

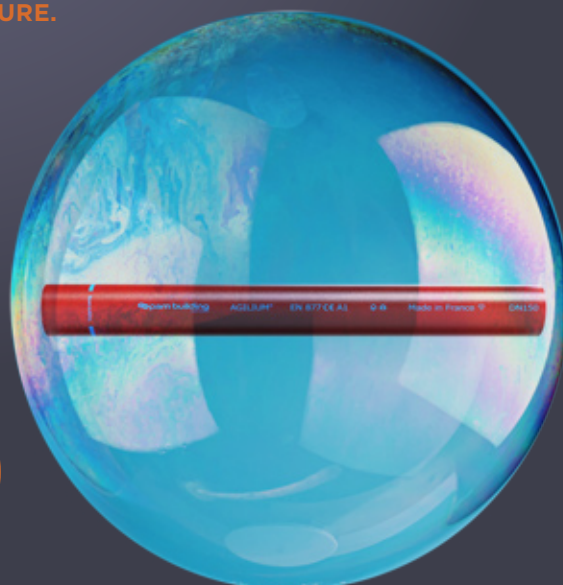
Due to having thinner pipe walls, you could save up to 58% of your time cutting pipe with Ensign Agilium.

**THIS NEW RANGE EMBODIES OUR MOTTO - SAFE AND SUSTAINABLE BY NATURE.**

\* 30% is the average pipe weight reduction compared to the standard Ensign range.

\*\* 20% is the reduction of CO2e in the production stage, compared to the standard range (according to the respective EPDs).

PLEASE CLICK HERE OR  
SCAN THE QR CODE TO  
SEE MORE ON OUR WEBSITE



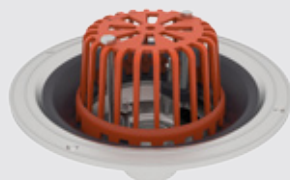


## NEW VORTX ALUMINIUM ROOF OUTLETS

OUR NEW **ALUMINIUM ROOF OUTLETS** HAVE MULTIPLE ADVANTAGES FOR EVERYONE INVOLVED WITH A PROJECT.



**VERTICAL SPIGOT OUTLETS WITH DOME GRATE**



**VERTICAL THREADED OUTLETS WITH DOME GRATE**



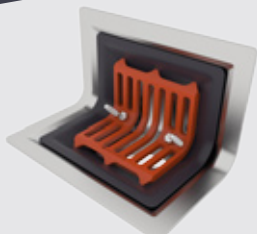
**VERTICAL SPIGOT OUTLETS WITH FLAT GRATE**



**VERTICAL THREADED OUTLETS WITH FLAT GRATE**



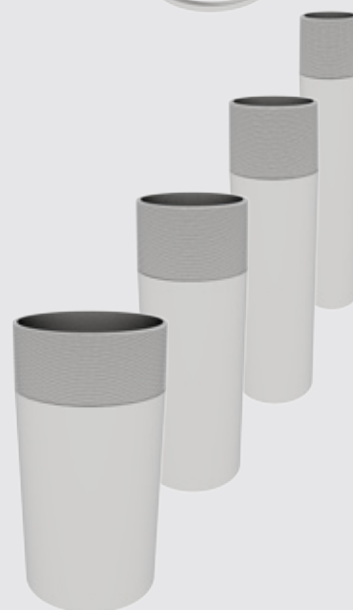
**BALCONY OUTLETS WITH FLAT GRATE**



**TWO-WAY OUTLETS WITH FLAT GRATE**

**FIND  
VORTX  
ALUMINIUM  
ROOF OUTLETS  
ON PAGE 92**

### ACCESSORIES



**EXTENSION RINGS & THREADED ADAPTORS**

PLEASE CLICK HERE OR  
SCAN THE QR CODE TO  
SEE MORE ON OUR WEBSITE



# CUSTOMER SERVICE

## Your 1st Choice through the actions of our people

- > Passionate about customer satisfaction
- > Enterprising in support of our customers' aims
- > Trustworthy by keeping our promises

**WEBSITE:**   
www.pambuilding.co.uk

**TECHNICAL SALES**   
Telephone: 01952 262529  
Email: enquiries.pambuilding@saint-gobain.com

**CUSTOMER SERVICE**   
Telephone: 01952 262508  
Email: orders.pambuilding@saint-gobain.com



## DELIVERY SERVICE CATEGORY (DSC) TIMESCALES

PAM Building provide a product availability structure for all its products to enable contractors and distributors to plan supply more effectively on projects.

The products are categorised as follows and are shown against each product in the price list tables.

Category	Description	Within Working Days
<b>A</b>	Products manufactured for ex-stock availability. Any out-of-stock situation should be quickly resolved.	5
<b>B</b>	Products manufactured and a stock level will be held based on average demand.	5-15
<b>C</b>	Products generally of lower demand—some stock may be held or made to order.	15-30

Look for the DSC key at the top of the pages: **A** =5 **B** =5-15 **C** =15-30

If there is a product you require faster than the time-scale above please call our sales team on 01952 262508

# TECHNICAL SERVICES

Do you want your projects to be more productive and benefit from the latest products and services, to reduce time-on-site, costs and the number of components used?

Our Technical Team is here to help you get the best from our products and services to ensure you deliver your project in an optimum way when it comes to the environment, site efficiency and the total cost of installation. Not only can our Technical team help you with any questions you might have about our products or services but we offer a full take-off quotation service.

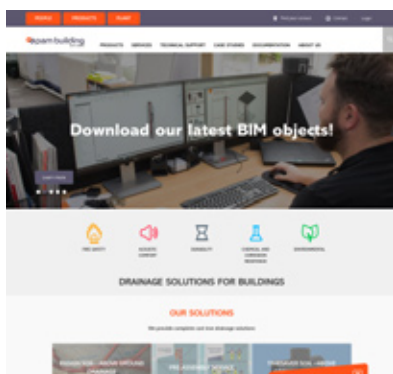
We offer technical training either in our training room at our Telford factory or we can come to your site. We are proud of our manufacturing site and all our team would welcome you to our site to have a factory tour; ***please click or scan the QR code to the right*** for a link to an animation about our factory.

More training is also available with our CPD training presentations which can be delivered either in person or online. Please visit our training page to review what is available and contact your sales manager or our technical team for further information.

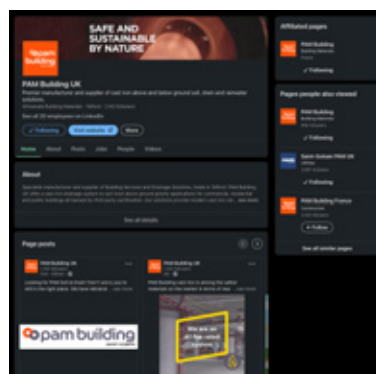


**Technical Enquiries:** 01952 262529 **Email:** [technical.pambuilding@saint-gobain.com](mailto:technical.pambuilding@saint-gobain.com)

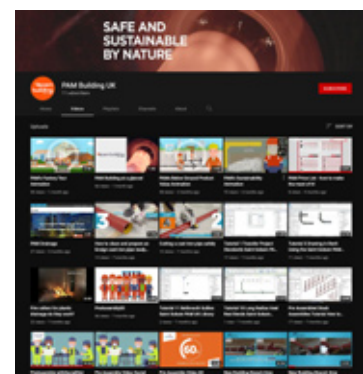
Our media locations will also keep you up to date with the latest information so ***please click or scan the QR codes below*** to visit them, then follow us or bookmark our pages:



**WEBSITE**



**LinkedIn**



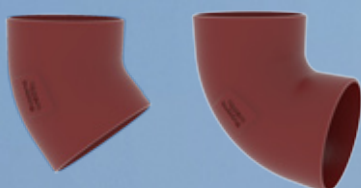
**YouTube**



# ENSIGN AGILIUM<sup>®</sup>

## LESS CO<sub>2</sub>e, LIGHTER AND MORE SUSTAINABLE.

PAM Building has launched Ensign Agilium<sup>®</sup>, a new, more sustainable solution that helps reduce our environmental impact while facilitating ease of installation. 100% compatible with our Ensign Soil range.







## NEW ENSIGN AGILIUM®

Our Ensign Agilium® range is the first choice for commercial, public and residential buildings; particularly multi-storey buildings which require robust and safe solutions.

### THE KEY FEATURES AND BENEFITS OF ENSIGN AGILIUM®:

#### FIRE PERFORMANCE

- > Fire resistance tests have been carried out, by Efectis, on both wall and floor slab penetrations and in most circumstances no additional protection is required to achieve Approved Document B EI ratings.
- > The fire resistance of a product is its ability to resist fire for a given time and not transmit the fire to an adjacent room.
- > Ensign Agilium® cast iron is a non-combustible metallic material with a melting point higher than 1,000°C.

#### DURABILITY

- > Due to their exceptional mechanical properties, cast iron drainage systems prevent the need for costly and time-consuming repairs.

#### WEIGHT

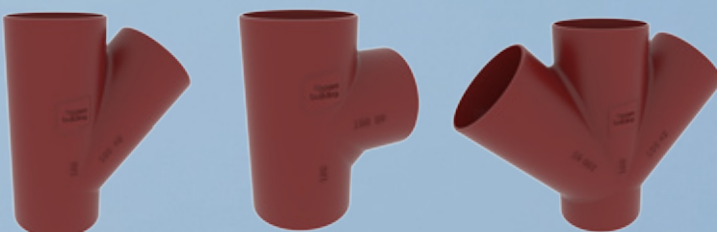
- > 30% lighter to carry for easier and faster installation.
- > The thinner walled pipes are now much quicker to cut, don't believe us, watch our time trial! (Scan QR Code below).

#### SUSTAINABILITY

- > Innovations in product design and manufacturing have reduced CO2e emissions by 20%\*\*.
- > Ensign Agilium® cast iron is made of 99 % recycled material.
- > Always 100% recyclable.
  - > Can be recycled infinitely into grade 1 products.
- > Long product life of 70 years for sanitary soil and rainwater systems.

FOR MORE INFORMATION  
PLEASE VISIT OUR WEBSITE:

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




PLEASE CLICK HERE  
OR SCAN THE QR CODE  
TO SEE OUR TIME TRIAL  
VIDEO ON YOUTUBE






## PIPES

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
AGILIUM 3M PIPE									
	AP000								
	100	1	16.8	A	283723	146.51	—	—	—
	125	1	23.8	C	283724	235.04	—	—	—
	150	1	30.5	A	283725	290.25	—	—	—
	200	1	46.8	B	283726	485.02	—	—	—
	250	1	69.6	B	283727	677.63	—	—	—
	300	1	90.6	C	283728	843.89	—	—	—


## RADIUS BENDS

AGILIUM 45° SHORT RADIUS BENDS									
	AF002								
	100	1	1.15	A	282809	36.76	—	—	—
	125	1	2.04	C	283032	54.15	—	—	—
	150	1	3.01	A	286809	66.03	—	—	—

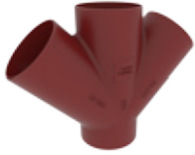
AGILIUM 88° SHORT RADIUS BENDS – PLEASE NOTE THAT THE 125 & 150 WILL BE AVAILABLE LATE JULY									
	AF002								
	100	1	1.79	A	283022	36.76	—	—	—
	125	1	2.84	C	286824	54.15	—	—	—
	150	1	4.33	A	286823	66.03	—	—	—

## BRANCHES

AGILIUM 45° SINGLE BRANCHES (EQUAL AND UNEQUAL) – PLEASE NOTE THAT THE 150X100, 150X125 & 150X150 WILL BE AVAILABLE LATE JULY									
	AF006								
	100x100	1	3.28	A	282807	59.54	—	—	—
	125x100	1	4.25	C	283033	119.42	—	—	—
	125x125	1	5.3	C	283034	128.51	—	—	—
	150x100	1	5.72	B	286814	139.78	—	—	—
	150x125	1	6.71	C	286813	172.25	—	—	—
	150x150	1	8.2	B	286810	142.44	—	—	—

AGILIUM 88° SINGLE TEE BRANCHES (EQUAL AND UNEQUAL)									
	AF006								
	100x100	1	2.46	A	282810	59.54	—	—	—

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
AGILIUM 45° DOUBLE BRANCHES (EQUAL AND UNEQUAL)									

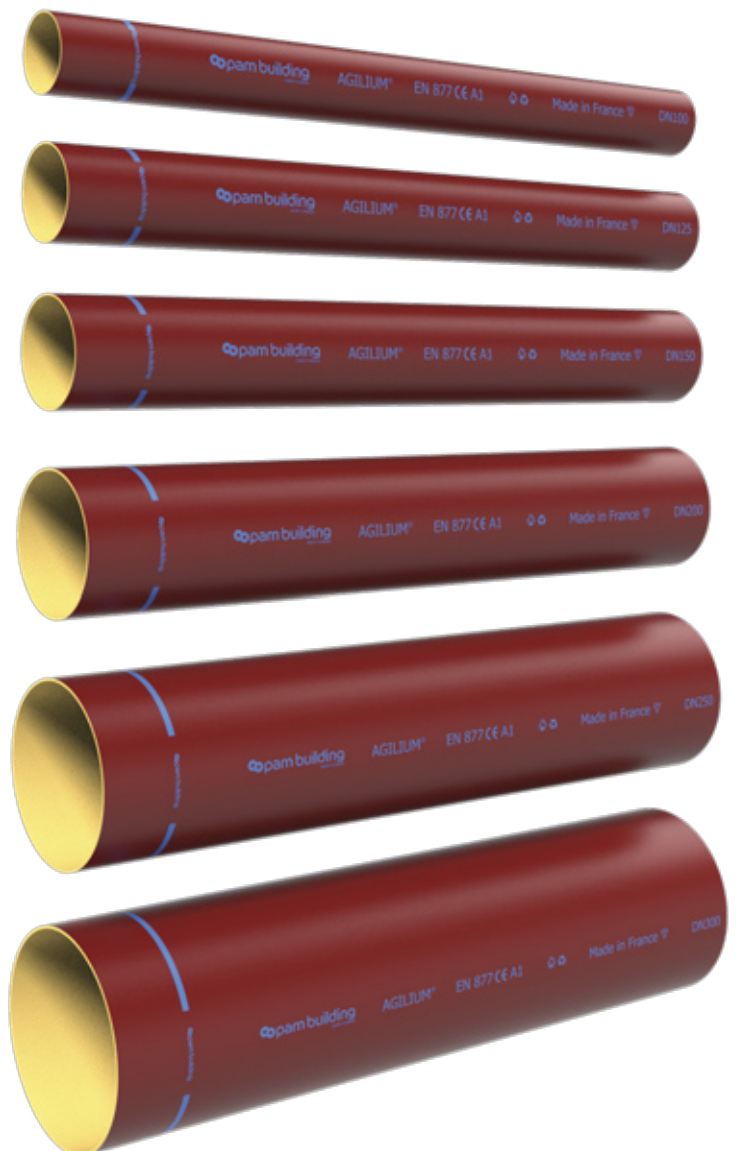


					AF010				
100x100x100	1	4.14	B	283024	88.87	—	—	—	—

**Please note**, due to the sustainable advantages of our new Ensign Agilium range, we will be slowly phasing out our standard Ensign Soil products. This means you may see both ranges in your order as we go through this transition, but don't worry, Ensign Agilium is completely compatible with our standard Ensign Soil range (and vice versa) so this will not affect the quality or integrity of your system.

Ensign Agilium also has all the benefits of our standard Ensign Soil range in terms of fire safety, acoustic performance, and longevity, just with more time and space-saving qualities.

TO LEARN MORE  
PLEASE CLICK HERE  
OR SCAN THE QR CODE



ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

# ENSIGN DRAINAGE SOLUTIONS

**OUR ENSIGN DRAINAGE RANGE PROVIDES SPECIFIERS, CONTRACTORS, OWNERS AND BUILDING USERS WITH TOTAL PEACE OF MIND THANKS TO ITS UNBEATABLE PERFORMANCE.**

At the heart of our offer is our material, cast iron, which delivers a fantastic performance in many areas: sustainability, fire resistance, acoustics, robustness and service life. Our above and below ground drainage systems offer a wide range of dimensions and fittings to meet all your project needs. We also offer a range of products and services that reduce the number of components required on a project which in turn reduces the time required to install the system.





Our Ensign range is the first choice for commercial, public and residential buildings; particularly multi-storey buildings which require robust and safe solutions.

**OUR ABOVE-GROUND SYSTEM IS USED FOR:**

- > Sanitary soil drainage
- > Rainwater systems

**THE KEY FEATURES AND BENEFITS OF OUR ENSIGN ABOVE-GROUND SYSTEM ARE:**

**FIRE PERFORMANCE**

- > A1 fire rated under BS EN 13501-1:2018, giving you the highest level of fire protection
- > Non-combustible, so will not fuel a fire
- > Will not create molten droplets which can spread a fire down through a building
- > Suitable to use on the façade of high-rise residential buildings over 18m high, as per the recently amended building regulations

**SUSTAINABILITY**

- > Manufactured from 99% recycled materials
- > Always 100% recyclable
  - > Can be recycled infinitely into grade 1 products
- > Long product life of 70 years for sanitary soil and rainwater systems

**ACOUSTICS**

- > An inherently quiet system without the need for other acoustic products to meet the performance requirements of acoustically sensitive rooms
- > Other materials might need other products such as lagging to reduce the acoustic impact, which costs more in materials, installation time, space and environmental impact.
- > Outperforms acoustic plastic systems by up to 12dB(A) based on structure-borne tests at 2L/s with our acoustic damper system
- > Acoustic dampeners can be fitted for the ultimate acoustic performance
- > Simple Installation
- > The expansion co-efficient is virtually the same as concrete so there is no need for expansion joints like those required for HDPE systems
- > Less bracketry is required which will reduce installation cost and time
- > A wide range of couplings to help with both speed of installation and high-pressure situations



## ENSIGN DRAINAGE SOLUTIONS

### HIGH PERFORMANCE

- > High-quality pipes manufactured by PAM Building in France using the De Lavaud process gives:
- > A greater impact and crush resistance, than other processes and materials, making it most suitable for exposed situations
- > Gives a reduced surface hardness that makes it much easier to cut on-site.
- > High performing mechanical joint solutions that can perform from 0.5 bar to more than 10 bar
- > Adjustments and changes to the system can be done with ease after the system has been installed.
- > Kitemark approved to BS EN 877:1999+A1:2006
- > Fire tested to BS EN 13501-1:2018 achieving an A1 fire rating

### WIDE RANGE

- > 50-600mm diameter range
- > A wide range of swept branches in compliance with BS EN 12056-2:2000 and Public Health best practice
- > A wide range of waste connection fittings from 1 to 6 boss connections
- > Strong robust ductile iron brackets
- > Installation time and space-saving products such as the new Venting Branch system and the rodding branch (see page 4 & 5)
- > Pre-Assembly Service will save up to 60% of the installation time on site
- > Full range of BIM objects and an easy system to design with.

For our below ground Ensign system we offer a robust range that will meet all your below ground drainage needs and give you confidence in our fit and forget solutions. The key features and benefits of installing our Ensign cast iron system are:

- > Easy and flexible installation
- > Suitable for underbuilding drainage which is encased in concrete
- > Resistant to the crushing weight of pouring and high temperatures of concrete curing
- > Our pipes have an internal epoxy coating, nearly twice the thickness of some competitors
- > Ensign drain pipes have an external Zinc coat applied in line with BS EN 877:1999+A1:2006.
- > Natural Longevity
- > Suitable for bridge and tunnel applications
- > A range of chambers to reduce installation times and quality
- > A range of fittings to meet all your project needs





## PERFORMANCE STANDARDS

### BS EN 877:1999+A1:2006

- > KM 51733 kitemark certification for above and below ground use
- > Below ground pipe to standard BS EN 877:1999+A1:2006—require the application of an external Zinc layer of 130gr/m<sup>2</sup>.

### CE AND UKCA MARK

- > Ensign is manufactured to BS EN 877:1999+A1:2006—a European harmonised standard and as such under the construction products directive must be UKCA not CE marked by Law. The manufacturer must make a product declaration of performance in conjunction with BS EN 877:1999+A1:2006 (DoP), and must be fire-rated after a test carried out at an accredited Fire Research establishment. Ensign has been tested at EXOVA in Warrington and rated A1.

### THE ENSIGN DOP IS AVAILABLE ON THE PAM BUILDING WEBSITE. BS EN 14366:2004

- > Laboratory measurement of noise from wastewater systems
- > Ensign has been tested at the Fraunhofer Institute in Germany and has the lowest level of acoustic measurement when using PAM Building acoustic brackets.


### FIRE PERFORMANCE

- > Above ground reaction to fire category A1
- > Fire resistance
- > Building Regulations Document B—No special protection is required
- > ASFP Red Book guidance—Pipe penetration between floors and walls made with a mortar based material.

**CLICK OR SCAN  
THE QR CODE  
TO WATCH THE  
FIRE TEST VIDEO**






## PIPES

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
3M PIPE									
 RAL 3002					EP000			ED000	
	50	37	12.5	A	156363	106.42	—	—	—
	70	41	17.0	A	156455	123.12	—	—	—
	100	38	24.5	A	156563	146.51	A	155349	191.24
 RAL 7015	125	23	34.3	C	156736	235.04	—	—	—
	150	20	41.0	A	156827	290.25	A	155414	381.05
	200	10	67.4	B	156951	485.02	B	155448	644.16
	250	8	97.3	B	157049	677.63	B	155476	946.97
	300	6	126.8	C	157114	843.89	B	155493	1,179.39
	400	2	177.7	C	157171	1,657.34	C	155508	1,910.74
	500	1	244.9	C	157187	2,061.15	C	155511	2,218.66
	600	1	321.9	C	157203	2,513.12	C	175630	2,727.25

## BRACKETS

<b>DUCTILE IRON PIPE BRACKETS</b>									
 <p>Threaded bars size is M10 for 50 to 100mm and M12 for 150 &amp; 200mm</p>				EF048			ED048		
	50	48	0.3	A	156408	14.41	—	—	—
	70	30	0.5	A	156505	14.41	—	—	—
	100	30	0.6	A	156646	16.65	B	175593	19.28
	150	16	0.8	A	156898	30.85	B	175594	36.52
	200	8	1.5	B	177745	114.35	C	177743	139.17

<b>DUCTILE IRON PIPE BRACKET FITTED WITH ACOUSTIC DAMPENER—TESTED TO BS EN 14366:2004</b>									
 	Spares Kit (10) = 225610			EF048AD					
	50	48	0.5	B	199881	28.01	—	—	—
	70	30	0.6	B	199882	28.01	—	—	—
	100	30	0.7	A	199883	29.90	—	—	—
	150	16	1.0	B	199884	37.36	—	—	—

<b>DUCTILE IRON PIPE BRACKET (DOUBLE BRACED)</b>									
				EF049					
	100	1	0.8	B	177744	18.22	—	—	—

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### VERTICAL MILD STEEL BRACKET



##### EF048MS

125	1	1.1	B	192259	29.04	—	—	—
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#### SPLIT BAND MILD STEEL BRACKETS



##### EF048SMBS

200	1	1.27	C	285737	45.90	—	—	—
250	1	1.72	C	285738	63.26	—	—	—
300	1	1.86	C	285739	69.70	—	—	—
400	1	2.3	C	261761	88.14	—	—	—
500	1	2.9	C	261762	126.15	—	—	—

#### RUBBER LINED MILD STEEL BRACKETS



##### EF048MSL

50	50	0.1	B	251197	7.69	—	—	—
70/75	50	0.2	B	251198	11.73	—	—	—
100	25	0.3	B	251199	14.04	—	—	—
150	20	0.4	B	251201	20.50	—	—	—
200	10	0.6	C	251202	36.31	—	—	—
250	10	1.6	C	251203	60.05	—	—	—
300	10	1.8	C	251204	119.81	—	—	—

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

### STAINLESS STEEL COUPLINGS RAPID NG (EPDM RUBBER GASKET)



Nitrile Gaskets available on request

#### EC002NG

50	100	0.2	A	210424	15.95	—	—	—
70	140	0.3	A	210425	17.59	—	—	—
100	100	0.5	A	210427	22.86	—	—	—
125	50	0.6	C	210428	28.36	—	—	—
150	50	0.7	A	210429	45.80	—	—	—
200	20	0.8	B	210430	102.40	—	—	—
250	4	0.9	B	228759	146.63	—	—	—
300	4	1.0	B	228771	169.71	—	—	—

### TWO PIECE IRON DUCTILE COUPLINGS (EPDM GASKETS)



300mm diameter is 4 piece  
400mm, 500mm, 600mm  
diameter couplings see  
EC002HP

#### EC002

#### ED001

50	32	0.6	A	156398	15.95	—	—	—
70	27	0.7	A	156493	17.59	—	—	—
100	20	1.1	A	156634	22.86	A	155369	32.26
125	12	0.9	C	156777	28.36	—	—	—
150	8	1.7	A	156888	45.80	A	155433	65.88
200	4	3.7	A	156998	102.40	A	155462	146.78
250	1	4.4	B	175552	146.63	B	175591	186.88
300	1	6.5	B	175510	169.71	B	175592	214.07

### GRIP COLLARS – STAINLESS STEEL



\*\*To overclamp ductile iron  
coupling EC002  
To give 5 bar unrestrained

Will overclamp all sizes  
Stainless Steel EC002NG  
Couplings

#### EC002GC

50	10	0.5	B	221261	51.17	—	—	—
70	10	0.7	B	221267	59.80	—	—	—
**100	10	0.9	B	220750	79.34	—	—	—
**150	4	1.2	B	221270	113.27	—	—	—
**200	3	1.7	C	221271	155.87	—	—	—
250	1	1.7	C	227039	258.27	—	—	—
300	1	1.7	C	227040	290.27	—	—	—

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

**PAM-GRIP STAINLESS STEEL HIGH PERFORMANCE COUPLING WITH GRIP (EPDM GASKETS)**



All steel components are  
Grade 316 EPDM gasket  
Nitrile available on request

EC002HP-G						EC002HP-G			
50	1	0.6	B	269439	105.28	B	269439	105.28	
70	1	1.0	B	269440	111.35	B	269440	111.35	
100	1	1.1	B	269441	137.62	B	269441	137.62	
150	1	2.3	B	269442	199.84	B	269442	199.84	
200	1	5.6	B	269443	336.22	B	269443	336.22	
250	1	6.5	B	269444	485.10	B	269444	485.10	
300	1	7.2	B	269445	496.12	B	269445	496.12	
400	1	10.3	B	269446	596.32	B	269446	596.32	
500	1	16.9	C	269447	738.24	C	269447	738.24	
600	1	19.6	C	269448	872.56	C	269448	872.56	

**PAM-FLEX HIGH PERFORMANCE COUPLING NON-GRIP (EPDM GASKETS)**



All steel components are  
Grade 316 EPDM gasket  
Nitrile available on request

Note — Coupling requires estraining  
to perform to higher pressures

Please note for removal and re-  
installation of the bolts for the HP  
couplings will require MolyKote  
(code 278599) applied to the  
threads. Please call the technical  
team for details on 01952 262529.

EC002HP						EC002HP			
50	1	0.6	B	269450	79.56	B	269450	79.56	
70	1	1.0	B	269451	83.24	B	269451	83.24	
100	1	1.1	B	269452	93.98	B	269452	93.98	
150	1	2.3	B	269453	131.26	B	269453	131.26	
200	1	4.1	B	269454	142.63	B	269454	142.63	
250	1	4.6	B	269455	165.24	B	269455	165.24	
300	1	5	B	269456	179.68	B	269456	179.68	
400	1	5.8	B	269457	268.52	B	269457	268.52	
500	1	6.6	C	269458	305.28	C	269458	305.28	
600	1	7.4	C	269459	338.25	C	269459	338.25	

**PAM-FLEX HIGH PERFORMANCE COUPLING NON-GRIP (EPDM GASKETS) – SLIM**



These are slip couplings and to be used when space between some fittings is tight. They are 65mm wide. Please see the datasheet for further details.

EC002HP-S						EC002HP-S			
100 slim	1	1.02	B	281605	93.98	B	281605	93.98	
150 slim	1	2	B	281606	131.26	B	281606	131.26	
200 slim	1	3.5	B	286435	142.63	B	286435	142.63	




**PAM-FLEX HIGH PERFORMANCE COUPLING WITH GRIP (EPDM GASKETS) – SLIM**







EC002HP						EC002HP			
100 slim	1	1.02	B	286431	135.24	B	286431	135.24	
150 slim	1	2	B	286432	195.23	B	286432	195.23	
200 slim	1	3.5	B	286433	324.59	B	286433	324.59	
250 slim	1	5.38	B	286434	468.53	B	286434	468.53	






ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
88° SHORT RADIUS BENDS									
  * 100 & 150 below ground only for rainwater				EF002			ED002		
	50	1	0.7	A	191437	27.57	—	—	—
	70	1	1.3	A	191442	31.03	—	—	—
	100	1	1.9	A	191447	36.76	C	271397	40.92*
	125	1	3.2	C	191454	54.15	—	—	—
	150	1	4.4	A	191459	66.03	C	278339	77.69*
	200	1	9.8	C	191462	210.96	—	—	—
	250	1	17.3	C	191463	383.56	—	—	—
	300	1	27.4	C	191431	631.64	—	—	—
400	1	72.7	C	265224	1,003.21	—	—	—	
68° SHORT RADIUS BENDS									
				EF002					
	50	1	0.6	C	191436	27.57	—	—	—
	70	1	1.2	C	191441	31.03	—	—	—
	100	1	2.1	C	191446	36.76	—	—	—
	150	1	4.2	C	191458	66.03	—	—	—
	200	1	7.8	C	156968	196.56	—	—	—
	250	1	14.7	C	157067	383.56	—	—	—
300	1	20.0	C	157132	539.53	—	—	—	
45° SHORT RADIUS BENDS									
				EF002			ED002		
	50	1	0.6	A	191435	27.57	—	—	—
	70	1	0.9	A	191440	31.03	—	—	—
	100	1	1.4	A	191445	36.76	A	191765	43.30
	125	1	2.3	C	191452	54.15	—	—	—
	150	1	3.0	A	191457	66.03	B	191766	77.69
	200	1	6.8	B	191461	196.56	C	191767	226.06
	250	1	10.9	B	191464	383.56	C	191879	449.66
	300	1	18.7	C	191432	539.53	C	191880	610.24
	400	1	35.0	C	192335	1,392.98	C	192370	1,453.55
	500	1	53.0	C	192376	2,269.38	C	192382	2,087.84
600	1	92.0	C	192377	2,466.14	C	192383	2,688.55	

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
30° SHORT RADIUS BENDS									
				EF002			ED002		
	50	1	0.5	C	191434	27.57	—	—	—
	70	1	0.7	C	191439	31.03	—	—	—
	100	1	1.5	A	191444	36.76	A	191768	43.30
	150	1	3.2	C	191456	66.03	B	191769	77.69
	200	1	7.0	C	155933	196.56	C	265382	235.90
	250	1	9.7	C	155948	383.56	C	265380	460.27
	300	1	15.5	C	155960	539.53	C	265379	701.38
400	1	34.6	C	264752	852.17	C	266308	968.21	
15° SHORT RADIUS BENDS									
				EF002			ED002		
	50	1	0.4	C	191433	27.57	—	—	—
	70	1	0.7	C	191438	31.03	—	—	—
	100	1	1.3	A	191443	36.76	A	191770	43.30
	150	1	2.5	C	191455	66.03	B	191771	77.69
	200	1	4.6	C	155932	196.56	C	265381	235.90
400	1	19.3	C	269726	670.49	C	270324	871.64	
45° MEDIUM RADIUS BENDS									
							ED02M		
	100	1	3.5	—	—	—	B	191772	73.72
150	1	5.9	—	—	—	C	191773	183.47	
88° MEDIUM & LONG RADIUS BENDS									
				EF02L			ED02L		
	100 LR	1	4.8	A	191549	93.46	A	191774	101.15
150 MR	1	8.7	B	191550	267.85	B	191775	303.32	

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
22° LONG RADIUS BENDS									
				EF02L			ED02L		
	100 LR	1	2.0	C	191548	68.91	C	191776	74.26
88° HEEL REST BENDS									
				ED007					
	100	1	5.7	—	—	—	B	192289	125.67
	150	1	9.9	—	—	—	C	192290	309.15
88° SHORT RADIUS BENDS WITH REAR ACCESS									
				EF005					
	70	1	1.8	C	156472	60.21	—	—	—
	100	1	3.3	A	156589	87.92	—	—	—
	150	1	4.5	B	156845	154.68	—	—	—
88° LONG RADIUS BEND WITH REAR ACCESS									
				EF05L			ED05L		
	100	1	5.7	B	156607	113.74	C	191777	133.81
88° MEDIUM RADIUS BEND WITH REAR ACCESS									
				EF05M			ED05M		
	150	1	10.7	C	192357	276.30	C	192358	309.15

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### ACCESS PIPES WITH ROUND DOOR



EF014						ED014			
50	1	1.6	B	191516	73.52	—	—	—	—
70	1	2.0	B	191517	77.78	—	—	—	—
100	1	3.1	A	191518	85.49	C	191805	96.27	—
150	1	6.2	B	191519	154.75	C	191806	160.21	—

#### ACCESS PIPES WITH RECTANGULAR DOOR



EF015						ED015			
100	1	7.2	B	191840	165.30	C	191807	192.13	—
125	1	9.0	C	191521	172.01	—	—	—	—
150	1	12.7	B	191841	258.85	C	191808	300.44	—
200	1	21.5	C	191522	514.11	C	191809	604.75	—
250	1	38.5	C	191523	808.95	C	191883	980.10	—
300	1	50.0	C	191520	1,009.11	C	191884	1,170.13	—

#### CORNER MULTI-WASTE MANIFOLD CONNECTOR 4 X 50MM BSP INLETS



EF099									
100	1	10.4	C	270321	262.18	—	—	—	—

#### MANIFOLD CONNECTORS




EF094									
100	1	3.2	C	175626	151.54	—	—	—	—
150	1	6.0	C	175629	211.11	—	—	—	—

Plastic Plugs, 10 pack, 191173 – £11.18

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



Note: to comply to BS EN 12056 part 2 use a Swept Radius, see page 22.

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
88° SINGLE TEE BRANCHES (EQUAL AND UNEQUAL)									
	EF006								
	50x50	1	1.0	B	191469	44.25	—	—	—
	70x50	1	1.5	C	191472	46.73	—	—	—
	70x70	1	1.7	B	191475	46.73	—	—	—
	100x50	1	2.0	B	191479	64.10	—	—	—
	100x70	1	2.3	C	191482	64.10	—	—	—
	100x100	1	2.7	A	191485	59.54	—	—	—
	125x100	1	4.0	C	191490	119.42	—	—	—
	125x125	1	4.2	C	191492	128.51	—	—	—
	150x100	1	4.6	B	191497	138.00	—	—	—
	150x125	1	5.8	C	191499	159.57	—	—	—
	150x150	1	6.0	C	191501	142.44	—	—	—
	200x200	1	13.3	C	191505	487.83	—	—	—
	250x250	1	22.6	C	191508	861.00	—	—	—
300x300	1	35.5	C	191466	1,107.84	—	—	—	



Note: to comply to BS EN 12056 part 2 use a Swept Radius, see page 22.

### 69° SINGLE BRANCHES (EQUAL AND UNEQUAL)



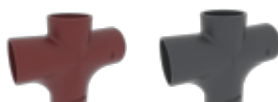








					<b>EF006</b>			<b>ED006</b>	
	50x50	1	1.0	C	191468	44.25	—	—	—
	70x50	1	1.4	C	191471	46.73	—	—	—
	70x70	1	1.7	C	191474	46.73	—	—	—
	100x50	1	2.2	C	191478	64.10	—	—	—
	100x70	1	2.7	C	191481	64.10	—	—	—
	100x100	1	2.7	C	191484	59.54	C	191781	69.93
	150x100	1	5.1	C	191496	139.78	C	191851	164.34











DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
45° SINGLE BRANCHES (EQUAL AND UNEQUAL)									
 				EF006			ED006		
	50x50	1	1.3	A	191467	44.25	—	—	—
	70x50	1	1.8	C	191470	46.73	—	—	—
	70x70	1	2.3	B	191473	46.73	—	—	—
	100x50	1	2.4	A	191477	64.10	—	—	—
	100x70	1	2.7	B	191480	64.10	—	—	—
	100x100	1	3.7	A	191483	59.54	A	191782	69.93
	125x70	1	4.0	C	191488	128.51	—	—	—
	125x100	1	5.3	C	191489	119.42	—	—	—
	125x125	1	5.6	C	191491	128.51	—	—	—
	150x70	1	5.1	B	191494	139.78	—	—	—
	150x100	1	5.7	B	191495	139.78	B	191783	164.34
	150x125	1	8.0	C	191498	172.25	—	—	—
	150x150	1	8.4	B	191500	142.44	C	191784	167.49
	200x100	1	9.6	C	191502	358.63	C	191785	421.77
	200x150	1	14.2	C	191503	368.86	C	191786	421.77
	200x200	1	19.4	C	191504	399.42	C	191787	452.50
	† 250x100	1	13.6	C	157073	458.30	C	259817	511.69
	† 250x150	1	17.3	C	157075	458.30	C	259816	511.69
	† 250x200	1	24.3	C	157078	572.89	C	265383	687.45
	250x250	1	32.2	C	191507	859.01	C	191881	1,009.29
	† 300x100	1	19.3	C	157138	756.19	C	264870	907.40
	† 300x150	1	23.2	C	157140	756.19	C	264869	907.40
	† 300x200	1	28.4	C	157141	802.01	—	—	—
	† 300x250	1	37.2	C	157142	802.01	—	—	—
	300x300	1	54.8	C	191465	1,107.84	C	191882	1,455.80
	400x300	1	60.0	C	192339	2,653.64	C	192384	2,500.50
	400x400	1	94.7	C	192336	3,149.43	C	192373	2,704.77
† 500x500	1	175.0	C	192378	4,685.47	C	192385	4,322.61	
† 600x600	1	215.0	C	192379	4,787.13	C	192386	5,319.06	







ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
88° SINGLE BRANCH (SWEPT RADIUS) (SEE BS EN 12056 PART 2)									
				EF06R			ED06R		
	70x70	1	2.2	B	156539	56.92	—	—	—
	100x50	1	2.4	B	156611	74.93	—	—	—
	100x70	1	2.9	C	156612	74.93	—	—	—
	100x100	1	3.3	A	156696	68.02	B	191788	77.38
	150x100	1	7.6	B	156869	162.04	C	191789	260.89
	150x150	1	11.7	C	156926	269.79	C	191790	263.00
	200x150	1	13.0	C	156985	456.07	C	191791	536.43
200x200	1	21.0	C	157025	480.25	C	191792	564.97	
88° SINGLE BRANCH (SWEPT RADIUS) WITH REAR ACCESS (SEE BS EN 12056 PART 2)									
				EF07R			ED07R		
	70x70	1	3.0	C	156540	83.46	—	—	—
	100x50	1	3.2	C	156614	113.19	—	—	—
	100x70	1	3.5	C	156621	113.19	—	—	—
	100x100	1	4.3	B	156697	117.47	C	191793	133.18
	150x100	1	8.9	C	156875	270.18	C	191794	281.08
150x150	1	13.0	C	156927	329.60	C	191795	281.72	
88° DOUBLE BRANCHES (SWEPT RADIUS) (EQUAL AND UNEQUAL) (SEE BS EN 12056 PART 2)									
				EF010R			ED010R		
	100x100	1	4.2	B	157643	86.93	C	185373	102.20
	150x100	1	7.6	C	156862	390.14	C	191803	353.61
88° CORNER BRANCH (SWEPT RADIUS) (EQUAL)									
				EF035R					
	100x100	1	4.4	B	264739	155.93	—	—	—







DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
45° DOUBLE BRANCHES (EQUAL AND UNEQUAL)									
					EF010			ED010	
	100x100	1	4.7	B	191509	88.87	C	191798	100.74
	150x100	1	8.0	C	191512	263.49	C	191799	292.56
	150x150	1	12.6	C	191513	354.32	C	191800	395.67
	200x200	1	25.3	C	191514	491.05	C	191801	509.03
88° CORNER BRANCHES (EQUAL AND UNEQUAL)									
					EF035				
	150x100	1	7.1	C	155919	182.03	—	—	—
45° CORNER BRANCH									
					EF035				
	100x100	1	5.9	C	156716	155.93	—	—	—
88° DOUBLE TEE BRANCHES (EQUAL AND UNEQUAL)									
					EF010				
	100x50	1	2.2	C	155825	63.08	—	—	—
	†100x70	1	2.7	C	155826	75.61	—	—	—
	100x100	1	3.3	B	191511	85.65	—	—	—
	150x100	1	5.7	C	155907	191.59	—	—	—
69° DOUBLE BRANCHES									
					EF010			ED010	
	100x100	1	3.4	C	191510	94.13	C	191796	110.82

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
88° LONG TAIL BEND									
	EF055								
	100	1	4.4	C	191567	71.13	—	—	—
45° LONG TAIL BEND									
 	EF055				ED055				
	100	1	4.0	C	191566	71.13	C	191778	75.74
88° LONG TAIL DOUBLE BENDS									
	EF054								
	70	1	3.1	C	191837	99.84	—	—	—
	100	1	4.4	C	191838	110.16	—	—	—
88° SHORT TAIL BENDS									
	EF054								
	100	1	2.6	C	233647	66.39	—	—	—
	150	1	6.94	C	233649	159.32	—	—	—
88° SINGLE LONG TAIL BOSS BRANCH SWEPT RADIUS WITH 4 X 50MM PUSH-FIT BOSSES (2 LEFT HAND, 2 RIGHT HAND) (SEE BS EN 12056 PART 2)									
	EF096								
	100	1	10.0	C	208644	360.99	—	—	—
Bosses require drilling out using a 51mm hole saw. Rubber grommets supplied in bags of 10. Product code 208205 (see page 39) See page 39 for hole saw accessories.									
88° DOUBLE LONG TAIL BOSS BRANCH SWEPT RADIUS WITH 4 X 50MM PUSH-FIT BOSSES (SEE BS EN 12056 PART 2)									
	EF097								
	100	1	11.0	C	208653	376.03	—	—	—
Bosses require drilling out using a 51mm hole saw. Rubber grommets supplied in bags of 10. Product code 208205 (see page 39) See page 39 for hole saw accessories.									
88° LONG TAIL TEE BRANCH									
	EF056								
	100x100	1	5.1	C	191568	209.08	—	—	—

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
45° LONG TAIL BRANCHES (EQUAL AND UNEQUAL)									
	EF056								
	100x100	1	5.9	C	156723	209.08	—	—	—
	150x150	1	18.3	C	156938	392.10	—	—	—
88° LONG TAIL CORNER BRANCH									
	EF036								
	100x100	1	7.5	C	191559	245.66	—	—	—
88° SINGLE LONG ARM BRANCH									
	EF008								
	100	1	6.0	C	156726	152.37	—	—	—
SINGLE BOSS PIPES 50MM COMPRESSION									
	EF090LT								
	100	1	5.0	A	280599	147.09	—	—	—
O-Ring Gaskets (10 pack) – 259491									
DOUBLE BOSS PIPES 50MM COMPRESSION OPPOSED									
	EF091LT								
	100	1	5.2	A	281146	172.01	—	—	—
DOUBLE BOSS PIPE 50MM COMPRESSION AT 90°									
	EF092LT								
	100	1	5.6	A	282645	172.01	—	—	—

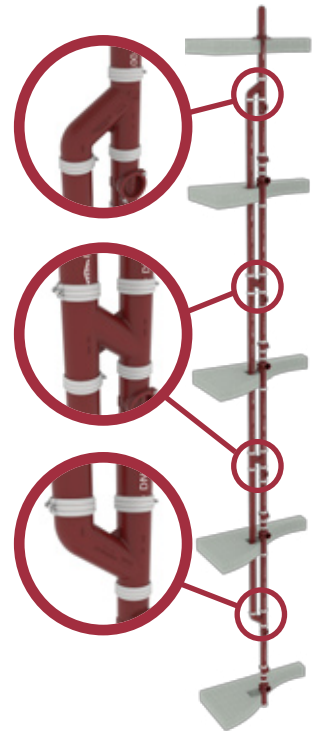
ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
SINGLE BOSS PIPES 50MM COMPRESSION									
	EF090								
	50	1	1.2	B	156371	62.15	—	—	—
	70	1	1.6	B	156460	62.15	—	—	—
	100	1	2.1	A	156573	75.98	—	—	—
	150	1	3.8	C	156836	123.87	—	—	—
O-Ring Gaskets (10 pack) – 259491									
SINGLE BOSS PIPE D/T 2" BSP									
	EF090T								
	100	1	1.7	B	191847	79.53	—	—	—
STRAP ON BOSS									
	EF133								
	70	1	1.1	C	265078	116.54	—	—	—
	100	1	1.4	B	262891	94.47	—	—	—
	150	1	1.6	C	262890	116.54	—	—	—
DOUBLE BOSS PIPES 50MM COMPRESSION OPPOSED									
	EF091								
	100	1	2.7	B	156575	98.17	—	—	—
	150	1	4.4	C	192359	189.98	—	—	—
DOUBLE BOSS PIPE D/T 2" BSP OPPOSED									
	EF091T								
	100	1	2.2	C	191848	101.69	—	—	—
DOUBLE BOSS PIPE 50MM COMPRESSION AT 90°									
	EF092								
	100	1	2.9	C	191849	98.17	—	—	—
DOUBLE BOSS PIPES D/T 2" BSPT AT 90°									
	EF092T								
	100	1	2.0	C	191850	101.69	—	—	—
	70	1	1.4	C	245545	115.30	—	—	—

## OUR VENTING BRANCHES HAVE MULTIPLE ADVANTAGES FOR EVERYONE INVOLVED WITH A PROJECT.

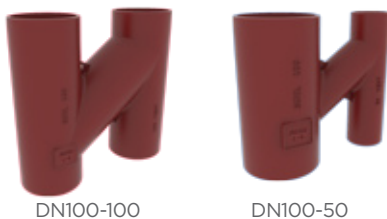
They are currently available in two sizes, DN100-100 and DN100-50, and is another example of our innovation to meet the future market needs. Key benefits are:

- > The reduction of the number of components gives a 30% material saving and therefore gives linked environmental benefits
- > Enables designers to specify a single piece fitting when venting soil stacks rather than using lots of parts.
- > The pipe centres are as close together as possible which could mean there could be more living space within the building which is very valuable, especially in city locations.
- > This will also reduce the number of parts required for an assembly and therefore save contractors installation time on site.
- > Remove the need to cut a small bit of pipe, therefore reducing risk, noise, time and materials.



### DESCRIPTION

#### INTERCONNECTING VENTING BRANCH



DN100-100

DN100-50

SIZE  
Ø mm

PACK  
SIZE

NOMINAL  
WEIGHT  
KG

ABOVE GROUND ▲

ΔDSC.

PRODUCT  
CODE

UNIT  
PRICE £

EF013

100x100

1

6.9

B

270320

100.27

100x50

1

3.8

B

279102

94.12

#### ENTRY/TERMINAL VENTING BRANCH



DN100-100



DN100-50

100x100

1

5.9

B

270303

119.26

100x50

1

3.2

B

279105

112.68

The same product can be used either way up at the top or bottom of the system.

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

**THE ONE PIECE SOLUTION SAVES YOU TIME AND SPACE  
COMPARED TO A TYPICAL 8 PIECE COMPONENTS ASSEMBLY**



To see the time saving our  
Rodding branch can give  
you, click or scan this  
QR code with your phone



#### 45° RODDING BRANCH



EF009

100	1	7.0	A	266138	152.77	—	—	—
-----	---	-----	---	--------	--------	---	---	---

#### 88° RODDING BRANCH



EF009

100	1	7.6	A	266135	204.90	—	—	—
-----	---	-----	---	--------	--------	---	---	---



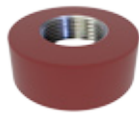


#### EXPANSION PLUGS



EF074

ED074

50	1	0.2	C	156374	48.52	—	—	—
70	1	0.4	C	191582	29.31	—	—	—
100	1	0.7	B	191583	36.50	C	191823	48.67
150	1	1.5	C	191584	65.49	C	191824	89.63
200	1	4.1	C	156961	214.40	—	—	—
250	1	6.0	C	157060	204.15	—	—	—
300	1	9.1	C	157125	415.65	—	—	—


DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
BLANK ENDS PLAIN									
				EF070			ED070		
	50	1	0.2	A	191570	11.09	—	—	—
	70	1	0.4	B	191571	11.73	—	—	—
	100	1	0.8	A	191572	13.65	B	191818	16.10
	125	1	1.1	C	191573	16.38	—	—	—
	150	1	2.0	B	191574	19.72	B	191819	23.05
	200	1	3.2	B	191575	87.06	C	191820	102.46
	250	1	5.7	C	191576	177.92	C	191887	208.54
	300	1	11.0	C	191569	364.99	C	191888	322.17
	400	1	17.3	C	261894	379.94	C	265190	455.95
500	1	24.0	C	261892	443.75	C	267710	532.51	
BLANK ENDS WITH 50MM PUSH-FIT CONNECTOR									
				EF071			ED071		
	70	1	0.4	C	191577	26.15	—	—	—
	100	1	1.0	C	191578	28.22	C	191821	33.17
	150	1	1.6	C	191580	33.91	C	191822	39.92
BLANK ENDS D/T 2" BSP									
				EF071T					
	100	1	0.9	B	191579	33.13	—	—	—
UNIVERSAL CONNECTOR EPDM									
				EF071R					
	50x56/48/40 (OD Dimensions)	1	0.1	B	155759	22.69	—	—	—
BLANK END WITH WASTE PUSH-FIT CONNECTOR									
				EF077					
	100x38/32	1	0.4	C	191585	25.34	—	—	—

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

## TAPER PIPES



\*PAM Building can manufacture large diameter tapers to most sizes i.e. 500x200 on a made to order basis (Price on application)

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
TAPER PIPES									
  *PAM Building can manufacture large diameter tapers to most sizes i.e. 500x200 on a made to order basis (Price on application)					EF028			ED028	
	70x50	1	0.5	B	191532	42.45	—	—	—
	100x50	1	0.9	A	191533	49.92	—	—	—
	100x70	1	0.9	A	191534	49.92	—	—	—
	125x50	1	1.2	C	191842	50.18	—	—	—
	125x70	1	1.5	C	191536	50.18	—	—	—
	125x100	1	1.6	C	191537	50.18	—	—	—
	150x50	1	1.7	C	191538	95.78	—	—	—
	150x70	1	1.8	C	191539	95.78	—	—	—
	150x100	1	2.2	B	191540	95.78	B	191810	103.40
	150x125	1	2.0	C	191541	95.78	—	—	—
	200x100	1	3.5	C	191542	155.59	C	191811	183.04
	200x125	1	3.4	C	191543	155.59	—	—	—
	200x150	1	3.9	C	191544	155.59	C	191812	183.04
	250x100	1	5.9	C	191545	321.36	C	191889	376.70
	250x150	1	6.1	C	191546	321.36	C	191886	376.70
	250x200	1	6.1	C	191547	321.36	C	191892	376.70
	300x150	1	10.4	C	191529	441.73	C	191890	524.37
	300x200	1	11.0	C	191530	441.73	C	191891	524.37
	300x250	1	12.7	C	191531	441.73	C	191885	524.37
400x300	1	20.0	C	157163	552.84	C	155504	655.96	
500X150	1	26.5	C	270326	1,298.54	C	265404	1,426.07	
500x400	1	27.9	C	157184	1,298.54	C	270327	1,426.07	

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### 'P' TRAP PLAIN (SUPPLIED WITH SUPPORT LUG)



			EF034			ED034		
100	1	4.5	A	156666	68.22	C	191815	80.33

#### 'P' TRAP WITH HEAD ACCESS (\*SUPPLIED WITHOUT SUPPORT LUG ONLY)



			EF037			ED037		
50*	1	2.0	B	156419	104.22	—	—	—
70	1	2.7	C	156518	104.22	—	—	—
100*	1	5.2	B	156667	112.83	C	182482	131.50
150	1	11.6	B	156911	201.82	C	182483	223.94

#### BRANCH TRAP



			EF080					
100	1	10.2	C	191587	247.32	—	—	—

#### STENCH TRAP



			EF081					
100	1	17.4	C	155841	513.70	—	—	—
150	1	38.0	C	155921	1,084.07	—	—	—

#### EEZI-FIT COUPLINGS



			EZ001					
100	12	1.3	A	208191	24.91	—	—	—
150	1	2.0	C	216312	49.80	—	—	—

#### PUSH-FIT DRAIN COUPLINGS



						ED004		
100	1	1.5	—	—	—	A	175622	35.31
150	1	2.5	—	—	—	A	175623	69.34

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### STACK SUPPORT PIPES



##### EF050

70	1	1.8	C	191856	59.16	—	—	—
100	1	2.8	B	191562	65.82	—	—	—
125	1	3.6	C	191563	72.99	—	—	—
150	1	4.8	C	191564	104.13	—	—	—

#### STACK SUPPORT BRACKETS SUPPLIED WITH RUBBER SEAL



##### EF051

70	1	1.1	C	191857	38.28	—	—	—
100	1	1.5	B	191843	52.58	—	—	—
125	1	1.7	C	191844	56.24	—	—	—
150	1	2.6	C	191845	76.19	—	—	—

#### STACK SUPPORT PIPES COMPLETE WITH BRACKET AND SEAL



##### EF050/51

200	1	10.0	C	157014	471.49	—	—	—
250	1	18.5	C	157097	714.75	—	—	—
300	1	30.8	C	157160	922.43	—	—	—
400	1	64.8	C	269859	2,612.99	—	—	—
500	1	89.8	C	269733	3,030.63	—	—	—

#### STACK SUPPORT PIPE CANTILEVER ARM BRACKET (GALVANISED STEEL)



##### EF052

—	1	2.0	C	192329	44.12	—	—	—
---	---	-----	---	--------	-------	---	---	---

#### STACK SUPPORT PIPE CANTILEVER ARM BRACKET WITH SUPPORT (FOR STACK SUPPORT PIPES 200–300MM IN DIAMETER) (GALVANISED STEEL)



##### EF052

—	1	4.3	C	192330	114.99	—	—	—
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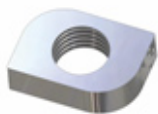
DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### STACK SUPPORT PIPE CONSOLE BRACKET (GALVANISED STEEL)



EF052									
—	1	4.6	C	192331	105.63	—	—	—	—

#### CLAMP FOR SUPPORT BRACKETS



EF052									
—	1	0.3	C	192332	1.82	—	—	—	—

#### MOVEMENT CONNECTOR



EF058									
50	1	2.4	C	156038	164.76	—	—	—	—
100	1	4.4	B	192304	204.17	—	—	—	—
150	1	7.8	C	156235	243.58	—	—	—	—

#### TRANSITIONAL CONNECTORS



EF059									
100	1	1.8	C	156650	77.83	—	—	—	—
150	1	4.2	C	156902	143.14	—	—	—	—

#### ASPHALT ROOF CONNECTOR



EF073									
100	1	2.1	C	191581	103.59	—	—	—	—

ΔDelivery Service Category DSC (see page 6) 
 **A** =5 DAYS 
 **B** =5-15 DAYS 
 **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

## AIR~WAVE VENT COWL

FOR TIMESAVER SOIL SEE PAGE 81 

Our Air-Wave vent cowl is a unique designed PAM Building fitting that allows the Ensign Soil pipe system to have a ventilation cap at the termination of a soil pipe system.

The unique wave apertures allow for air to flow through the pipe system but will also negate any blockages or any foreign objects/animals from entering the pipe system.

Also available in Timesaver Soil on page 81.



### AIR~WAVE VENT COWL



#### EF075

100	1	0.6	B	280544	15.00	—	—	—
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### ROOF PENETRATION FLANGES



#### EF076

75	1	6.1	C	205922	234.34	—	—	—
100	1	6.6	C	205924	247.10	—	—	—
150	1	6.6	C	238554	447.19	—	—	—

### OFFSETS



#### EF024

100x75	1	2.3	C	191526	56.52	—	—	—
50x130	1	1.5	C	191524	46.75	—	—	—
70x130	1	2.2	C	191525	70.96	—	—	—
100x130	1	3.8	C	191527	93.20	—	—	—






## ENSIGN EEZI-FIT

EEZI-FIT is intended for use for gravity above ground sanitary applications in accordance with BS EN 12056-2:2000 (0.5 bar performance—kitemark approved).

Ideal for multi-floor applications EEZI-FIT is the ideal system for projects with long vertical soil stacks, such as flats and apartments, hotels, office blocks etc; where the main stack will remain unchanged over time.

### BENEFITS

- > All the benefits of cast iron with the advantages of push-fit assembly. The system utilises a new gasket design that makes jointing simple, and completed in seconds. Electrical continuity can be accommodated.
- > EEZI-FIT connects to standard Ensign double spigot pipe and is fully compatible with all Ensign plain-ended fittings.
- > The installation of an Ensign mechanical joint positioned in the system can allow dismantling for future retro-fit.

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £
EEZI-FIT COUPLINGS						
	100	12	1.3	A	<b>EZ001</b> 208191	<b>24.91</b>
	150	1	2.0	C	216312	<b>49.80</b>
88° SHORT RADIUS BENDS						
	100	1	2.4	B	<b>EZ002</b> 208192	<b>49.76</b>
45° SHORT RADIUS BENDS						
	100	1	1.8	B	<b>EZ002</b> 208193	<b>49.76</b>
BOSS PIPE PUSH-FIT WITH SINGLE 50MM WASTE (SUPPLIED WITH GROMMETS)						
	100	1	2.1	B	<b>EZ090</b> 208199	<b>79.14</b>
SPARES RANGE—EEZI-FIT ACCESSORIES						
GASKETS (BAG OF 10)						
	100	10	—	C	208204	<b>38.95</b>
	150	10	—	C	216316	<b>41.23</b>

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

## ENSIGN TO SUPERSLEVE CONNECTORS



### ED076

100	1	1.8	—	—	—	C	191813	63.42
150	1	4.6	—	—	—	C	191814	110.97

## BELLMOUTH GULLY INLET BODY ONLY

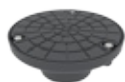


Shown with plain grating,  
code is for body only

### ED060

100	1	2.4	—	—	—	C	191825	88.45
150	1	2.9	—	—	—	C	191826	145.61

## BELLMOUTH GULLY INLET BODY WITH FITTED SEALING PLATE



(Grey only)

### ED066

100	1	4.4	—	—	—	C	191852	119.88
150	1	5.2	—	—	—	C	191853	204.67

## 200MM PLAIN GRATING TO SUIT BELLMOUTH GULLY INLET



### ED065

200	1	1.6	—	—	—	B	191828	20.63
-----	---	-----	---	---	---	---	--------	-------

## PUDDLE FLANGES



### ED078

(Grey only) 100	1	4.6	—	—	—	C	191829	111.55
(Grey only) 150	1	6.6	—	—	—	C	191830	137.70
(Black only) 250	1	13.0	—	—	—	C	192318	177.35
(Black only) 300	1	20.0	—	—	—	C	192319	213.62

## MULTI-CLAMP PUDDLE FLANGE



### ED078

(Grey only) 200	1	6.1	—	—	—	C	191831	350.70
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DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £

#### 45° INSPECTION CHAMBER CIRCULAR ACCESS



								ED012	
100x100	1	17.4	—	—	—	C	191832	441.33	
150x100	1	18.8	—	—	—	C	191833	571.67	
150x150	1	20.6	—	—	—	C	191834	725.70	

#### 45° INSPECTION CHAMBER RECTANGULAR ACCESS ONE BRANCH EACH SIDE



								ED016	
100x100	1	9.3	—	—		—	C	269013	491.94








#### 45° INSPECTION CHAMBER RECTANGULAR ACCESS TWO BRANCHES EACH SIDE



ED017									
100x100	1	16.8	—	—	—	C	270301	941.49	

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
T-BOX SPANNER									
				EF098			—		
	—	1	—	B	191200	12.69	—	—	—
RACHET SPANNER									
				EF100			—		
	—	1	—	B	191201	116.15	—	—	—
13MM DEEP SOCKET									
				EF101			—		
	13mm	1	—	B	191202	29.20	—	—	—
ALLEN KEY SOCKET ADAPTOR									
				EF102			—		
	—	1	—	B	191753	29.20	—	—	—
ENSIGN 'EXTREM 1K' (CUT-ENDS TREATMENT)—ACRYLIC RESIN TOUCH-UP PAINT FOR RED AND GREY SYSTEMS (QUICK-DRY, NON DRIP, BRUSH APPLIED)									
									
	—	1	0.5	C	226962	50.92	—	—	—
TWO-PART, TOUCH-UP PAINT SPRAY FOR RED SYSTEM									
									
	0.4L	1	—	C	216317	75.24	—	—	—
TWO-PART, TOUCH-UP PAINT SPRAY FOR GREY SYSTEM									
									
	0.4L	1	—	—	—	—	C	216318	75.98

Timesaver Touch up paint - 192549 - price was £30.96

Timesaver Touch up paint - 192549 - price was £30.96

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	PRODUCT CODE	UNIT PRICE £
RUBBER GROMMETS BOSS CONNECTIONS (BAG OF 10)						



—	10	—	C	208205	38.95
---	----	---	---	--------	-------

51MM HOLE SAW FOR CAST IRON						
-----------------------------	--	--	--	--	--	--



—	—	—	C	208206	54.71
---	---	---	---	--------	-------

HOLE SAW ARBOUR WITH DRILL FOR EEZI-FIT & TIMESAVER						
---	--	--	--	--	--	--



—	—	—	C	192327	67.89
---	---	---	---	--------	-------

PILOT DRILL FOR EEZI-FIT & TIMESAVER						
--------------------------------------	--	--	--	--	--	--



—	—	—	C	192328	17.09
---	---	---	---	--------	-------

LUBRICANT FOR PUSH-FIT ASSEMBLY (500G TUB)						
--	--	--	--	--	--	--



—	500g Tub	—	C	199037	32.39
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DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▲			BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £	ΔDSC.	PRODUCT CODE	UNIT PRICE £
				PLASTIC MOULDED PLUG TO BLANK OFF BOSS PIPES (SUPPLIED TO MERCHANTS IN BAGS OF 10)					



EF093									
50	10	—	C	192255	41.04	—	—	—	—

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

YOU WILL START SEEING OUR  
ENSIGN AGILIUM STACKS IN YOUR  
PRE-ASSEMBLY STILLAGES. DON'T  
WORRY THEY'RE 100% COMPATIBLE  
WITH OUR ENSIGN SOIL RANGE.

## PRE-ASSEMBLY STACK SOLUTIONS

### THE SERVICE OFFERS SO MUCH MORE THAN JUST PRE-ASSEMBLY.

This service requires close collaboration between the complete supply chain. We will manage the process from product selection, bespoke stack design, manufacture, distribution with our partners and on site assistance. The results will provide a reduction of time on-site with the added assurance of the consistent product assembly and a reduction of on-site scrap parts and packaging.



### ON-SITE BENEFITS

- > Reduces on-site installation time by up to 60%
  - > Reducing on-site labour costs
- > All stacks are air tested at the factory as standard, before dispatch
- > Stacks supplied in purpose-made stillages
  - > For robust storage
  - > For easy movements on site
- > Minimal on-site wastage
  - > No surplus products ordered
  - > Reduced pipe cutting
  - > Packaging will be reduced so this removes packaging scrap from your site
- > Cast iron flexibility
  - > Connecting pipe between floors cut on-site to allow for on-site variances
- > Designed for one-person handling

### DESIGN BENEFITS

- > Early collaboration ensures optimised stack designs offering the best solutions
- > Drawings provided for approval
- > Greater level of accuracy

### MATERIAL BENEFITS

- > Cast iron pre-assembled stack solutions are fire rated to the safest level possible, A1.
- > Acoustically cast iron is the quietest material on the market
  - > May not need additional insulation
- > Flexible couplings with high speed assembly
  - > The stainless steel rapid coupling is nearly 3 times quicker than fusion welded joints in HDPE — (Luckins pricing guide)
- > No concern about expansion when temperatures fluctuate
  - > Cast iron pre-assemblies will remain straight and not bow



We will work with you at the start of the project to identify the most effective use of products.



Your stacks will be designed from our current offer of Pre-Assembly stacks or we will design a bespoke stack for your project.



Once the drawings have been signed and we have your order, your stacks will be Pre-Assembled within 2 weeks.



Delivery can be planned to the hour



Installation will be 60% faster on-site





## THE SERVICE



### STAGE 1

#### EARLY COLLABORATION

Our team will engage with you at the early stages of the project to evaluate the possibilities and benefits of using a pre-assembly solution. Through early collaboration the team can identify any unique requirements and design a solution to meet your needs.



### STAGE 2

#### ESTIMATION

From the designs the technical team can calculate an accurate initial estimation.

### STAGE 3

#### STACK DESIGNS APPROVAL

PAM Building will provide detailed CAD drawings and 3D models of the stack arrangements for site approval. The stacks are fully compliant with BS EN 12056-2:2000 ensuring all soil stack branches are swept radius in accordance with the guidelines.

### STAGE 4

#### SIMPLIFIED ORDERING THROUGH THE MERCHANT

Our pre-assembly stacks are set up with a standard product code and are ordered in the same way as standard individual Ensign components, through the merchant distributor.





## STAGE 5

### ASSEMBLY AND AIR TEST

The ordered stack arrangements are then assembled within 2 weeks in a purpose made stillage at the PAM Building manufacturing site in Telford. When each stack is fully assembled it is air pressure tested as standard to 0.5 bar for 5 minutes exceeding the requirements of BS EN 12056-2:2000, saving considerable on-site labour time. The stacks are then labelled with the relevant location reference and floor level in accordance with the drawings.



## STAGE 6

### LOGISTICS

The unique stillages are designed to restrict movement of the stack assemblies during transportation to the project site. The stillage design also allows for easy off-load via fork lift or hoist and have wheels fitted to facilitate movement around the site.



## STAGE 7

### FLEXIBILITY ON-SITE

Our pre-assembly soil stacks are based on a standard 1.75m length. The stacks are designed to be suitable as a one-person lift and average around 20 kg, falling well within the health and safety guidelines. To fully connect each floor a soil pipe is cut on site, which allows flexibility for any site variances.



## STAGE 8

### INSTALLATION SUPPORT

The PAM Building team will liaise with stakeholders throughout the project providing guidance and support to ensure a smooth installation.



STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE				


**SA002**

100	15.9	270478	<b>285.93</b>
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Stack Assembly Contains:

100mm Pipe Cut to 1,500mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	2
100mm Round Access Pipe	EF014	1

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE AND HIGH LEVEL BOSS PIPE				


**SA005**

100	17.7	270329	<b>408.53</b>
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 425mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	4
100mm Round Access Pipe	EF014	1
100mm Single Boss Pipe	EF090	1

100MM PIPE STACK WITH ACCESS PIPE AND LOW LEVEL BOSS PIPE				
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**SA003**

100	17.2	271076	<b>386.96</b>
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Stack Assembly Contains:

100mm Pipe Cut to 1,350mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	3
100mm Round Access Pipe	EF014	1
100mm Single Boss Pipe	EF090	1

100MM PIPE STACK WITH ACCESS PIPE AND LOW LEVEL DOUBLE OPPOSED BOSS PIPE				
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**SA006**

100	17.8	271078	<b>409.16</b>
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	3
100mm Round Access Pipe	EF014	1
100mm Double Opposed Boss Pipe	EF091	1

100MM PIPE STACK WITH ACCESS PIPE AND HIGH AND LOW LEVEL SINGLE BOSS PIPE				
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**SA004**

100	19.1	271077	<b>517.49</b>
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 270mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	5
100mm Round Access Pipe	EF014	1
100mm Single Boss Pipe	EF090	2

100MM PIPE STACK WITH ACCESS PIPE AND HIGH LEVEL DOUBLE OPPOSED BOSS PIPE				
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**SA007**

100	18.3	271079	<b>438.24</b>
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 425mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	4
100mm Round Access Pipe	EF014	1
100mm Double Opposed Boss Pipe	EF091	1

All products marked with a \* can be made to different lengths and configurations, so these are guide prices. Please give us a call to get a price and spec to meet your projects needs!

STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE AND HIGH AND LOW LEVEL DOUBLE OPPOSED BOSS PIPE				



SA008			
100	21.5	271080	561.87
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Pipe Cut to 270mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double Opposed Boss Pipe	EF091	2	

STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE, SINGLE RADIUS BRANCH AND LOW LEVEL SINGLE BOSS PIPE				



SA011			
100	18.8	271083	474.09
Stack Assembly Contains:			
100mm Pipe Cut to 1,055mm*	EP000		1
100mm Rapid NG S/S Coupling	EC002NG		4
100mm Round Access Pipe	EF014		1
100mm Single Boss Pipe	EF090		1
100 x 100mm Radius Branch x 88°	EF06R		1

100MM PIPE STACK WITH ACCESS PIPE, HIGH LEVEL SINGLE BOSS PIPE, SINGLE RADIUS BRANCH AND LOW LEVEL SINGLE BOSS PIPE				
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		SA009	
100	20.2	271081	576.69
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	2	
100 x 100mm Radius Branch x 88°	EF06R	1	

100MM PIPE STACK WITH ACCESS PIPE AND SINGLE RADIUS BRANCH				
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		SA012	
100	18.0	270330	401.55
Stack Assembly Contains:			
100mm Pipe Cut to Suit*		EP000	1
100mm Pipe Cut to 155mm*		EP000	1
100mm Rapid NG S/S Coupling		EC002NG	4
100mm Round Access Pipe		EF014	1
100 x 100mm Radius Branch x 88°		EF06R	1

100MM PIPE STACK WITH ACCESS PIPE, HIGH LEVEL SINGLE BOSS PIPE AND SINGLE RADIUS BRANCH				
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		SA010	
100	19.3	271082	503.92
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000		1
100mm Pipe Cut to 155mm*	EP000		1
100mm Rapid NG S/S Coupling	EC002NG		5
100mm Round Access Pipe	EF014		1
100mm Single Boss Pipe	EF090		1
100 x 100mm Radius Branch x 88°	EF06R		1

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE, DOUBLE RADIUS BRANCH AND LOW LEVEL DOUBLE OPPOSED BOSS PIPE				
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SA013			
100	22.3	271084	639.99
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double Opposed Boss Pipe	EF091	2	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	

**We now have another 20 designs, so contact the technical team if we don't have the design you need.**

▲Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, HIGH LEVEL SINGLE BOSS PIPE, DOUBLE RADIUS BRANCH AND LOW LEVEL DOUBLE OPPOSED BOSS PIPE				

## SA014



100	21.7	271085	617.80
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, HIGH LEVEL BOSS PIPE, DOUBLE RADIUS BRANCH AND LOW LEVEL SINGLE BOSS PIPE				

## SA017



100	22.3	271088	595.60
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	2	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE, DOUBLE RADIUS BRANCH AND LOW LEVEL SINGLE BOSS PIPE				
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## SA015



100	21.7	271086	617.80
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE 90° BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND LOW LEVEL DOUBLE 90° BOSS PIPE				
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## SA018



100	22.9	271089	708.98
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	2	
100 x 100 x 100mm Double Radius Branch x 88°	EF035R	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE AND DOUBLE RADIUS BRANCH				
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## SA016



100	20.8	271087	545.03
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000		1
100mm Pipe Cut to 155mm*	EP000		1
100mm Rapid NG S/S Coupling	EC002NG		5
100mm Round Access Pipe	EF014		1
100mm Double Opposed Boss Pipe	EF091		1
100 x 100 x 100mm Double Radius Branch x 88°	EF010R		1

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE CORNER 90° BOSS PIPE AND DOUBLE CORNER RADIUS BRANCH				
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## SA019



100	21.2	271090	545.03
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000		1
100mm Pipe Cut to 155mm*	EP000		1
100mm Rapid NG S/S Coupling	EC002NG		5
100mm Round Access Pipe	EF014		1
100mm Double 90° Boss Pipe	EF092		1
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R		1

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, DOUBLE CORNER RADIUS BRANCH AND LOW LEVEL DOUBLE 90° BOSS PIPE				

**SA020**


100	21.2	271091	498.71
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, HIGH LEVEL SINGLE BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND LOW LEVEL SINGLE BOSS PIPE				

**SA023**


100	21.3	271094	664.60
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	2	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	

<b>100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE 90° BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND LOW LEVEL DOUBLE OPPOSED BOSS PIPE</b>				
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**SA021**


100	22.7	271092	708.98
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	

<b>100MM PIPE STACK WITH ACCESS AND DOUBLE CORNER RADIUS BRANCH</b>				
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**SA024**


100	19.1	271095	477.17
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Pipe Cut to 155mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	

<b>100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND LOW LEVEL DOUBLE 90° BOSS PIPE</b>				
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**SA022**


100	22.7	271093	708.98
Stack Assembly Contains:			
100mm Pipe Cut to 925mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	

<b>100MM PIPE STACK WITH ACCESS AND DOUBLE RADIUS BRANCH</b>				
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**SA025**


100	18.9	271096	408.18
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Pipe Cut to 155mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	

▲Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, DOUBLE RADIUS BRANCH AND MULTI-WASTE MANIFOLD				



SA026

100	26.3	271097	703.40
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	
100mm Multi-Waste Manifold Connector	EF095	1	

STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE 90° BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND MULTI-WASTE MANIFOLD				



SA029

100	29.4	271101	894.51
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	
100mm Multi-Waste Manifold Connector	EF095	1	

100MM PIPE STACK WITH ACCESS, DOUBLE RADIUS CORNER BRANCH AND MULTI-WASTE MANIFOLD				
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SA027

100	26.5	271099	772.38
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	
100mm Multi-Waste Manifold Connector	EF095	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE 90° BOSS PIPE, DOUBLE CORNER RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				
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SA030

100	27.5	271102	871.77
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double 90° Boss Pipe	EF092	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE, DOUBLE RADIUS BRANCH AND MULTI-WASTE MANIFOLD				
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SA028

100	29.0	271100	825.51
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	
100mm Multi-Waste Manifold Connector	EF095	1	

100MM PIPE STACK WITH ACCESS, HIGH LEVEL DOUBLE OPPOSED BOSS PIPE, DOUBLE RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				
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SA031

100	27.1	271103	802.79
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Double Opposed Boss Pipe	EF091	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, DOUBLE RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				

#### SA032



100	25.1	271104	680.66
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Radius Branch x 88°	EF010R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

STACK DESCRIPTION	STACK		ABOVE GROUND ▲	
	SIZE Ø mm	WEIGHT KG	PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS, HIGH LEVEL SINGLE BOSS PIPE, SINGLE RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				

#### SA035



100	22.5	271107	770.70
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	5	
100mm Round Access Pipe	EF014	1	
100mm Single Boss Pipe	EF090	1	
100 x 100mm Radius Branch x 88°	EF06R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

100MM PIPE STACK WITH ACCESS, DOUBLE CORNER RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				
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#### SA033



100	25.3	271105	749.66
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100 x 100mm Double Corner Radius Branch x 88°	EF035R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

100MM PIPE STACK WITH ACCESS AND MULTI-WASTE CORNER MANIFOLD				
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#### SA036



100	20.2	270328	574.43
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	3	
100mm Round Access Pipe	EF014	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

100MM PIPE STACK WITH ACCESS, SINGLE RADIUS BRANCH AND MULTI-WASTE CORNER MANIFOLD				
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#### SA034



100	24.2	271106	661.75
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	4	
100mm Round Access Pipe	EF014	1	
100 x 100mm Radius Branch x 88°	EF06R	1	
100mm Multi-Waste Corner Manifold Connector	EF099	1	

100MM PIPE STACK WITH HIGH LEVEL SINGLE BRANCH X 50MM				
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#### SA037



100	16.2	271108	294.89
Stack Assembly Contains:			
100mm Pipe Cut to Suit*	EP000	1	
100mm Pipe Cut to 450mm*	EP000	1	
100mm Rapid NG S/S Coupling	EC002NG	3	
100 x 50mm Single Branch x 45°	EF006	1	

▲Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE AND HIGH LEVEL SINGLE BRANCH X 50MM				

## SA038



100	17.8	271109	400.95
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 185mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	4
100mm Round Access Pipe	EF014	1
100 x 50mm Single Branch x 45°	EF006	1

STACK DESCRIPTION	SIZE Ø mm	STACK WEIGHT KG	ABOVE GROUND ▲	
			PRODUCT CODE	STACK PRICE £
100MM PIPE STACK WITH ACCESS PIPE AND HIGH LEVEL SINGLE BRANCH X 100MM				

## SA040



100	18.4	271112	396.39
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Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 185mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	4
100mm Round Access Pipe	EF014	1
100 x 100mm Single Branch x 45°	EF006	1

\* price based on length for this design, but our Technical Team can price up any length to suit your project.

## 100MM PIPE STACK WITH HIGH LEVEL SINGLE BRANCH X 100MM

## SA039



100	17.0	271111	290.33
-----	------	--------	--------

Stack Assembly Contains:

100mm Pipe Cut to Suit*	EP000	1
100mm Pipe Cut to 450mm*	EP000	1
100mm Rapid NG S/S Coupling	EC002NG	3
100 x 100mm Single Branch x 45°	EF006	1



We can now offer 150mm Pre-Assembly stacks!



▲Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

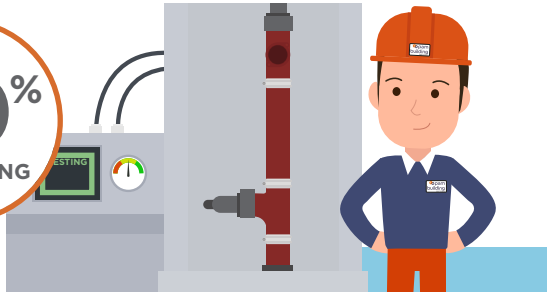
NEW

# PRE-ASSEMBLED STACK SOLUTIONS

## 1. SAVING

Modern methods of manufacturing are now offering massive savings and with our Pre-Assembly Solution we have seen up to a **60%** saving!

**60%**  
TIME SAVING



## 2. FACTORY CONTROLS

The stacks are designed, made bespoke to your needs, assembled, air-tested and inspected in our factory in Telford. The stacks will be assembled within 2 weeks from order.

## 3. PLANNED DELIVERIES

With our distribution partners we can plan delivery of your stacks to suit your build programme.



## 4. SITE EFFICIENCY

When installing them on site you will become more efficient than traditional methods.



## 5. SITE SAFETY AND SPACE

Less space and time will be required on site, which will not only help with social distancing, but will also reduce the need for cutting and storing products on-site.



## 6. IMPROVED RESULTS

- ✓ Reduced time on site
- ✓ Improved quality
- ✓ Reduced environmental impact



Click or Scan the QR code above with your phone to see the full video on YouTube!



Please contact your regional technical sales manager for details



## BIM READY

[www.pambuilding.co.uk](http://www.pambuilding.co.uk) aims to ease the burden on developers, specifiers and contractors in the early stages of construction by providing two levels of BIM library and supporting elements.

The new releases include a full-data object library, a platform that provides supporting information and free individual BIM files of all products and systems.

These include a BS EN 877:1999+A1:2006 'Generic Cast Iron' content package for use in early design stages, with fittings parametrically modelled, and in standard geometric settings. The files contain only the most vital information, reducing the time and effort required to create early stage plans. These 'data-light' designs can also be overwritten with the full data specification libraries without issue, speeding up later stages of development that require more detailed plans streamlining conversion from design to as built work flow.

Our BIM Libraries are designed to aid the data transition between Public Health consultant's and Main Contract MEP design engineers, creating a leaner process that reduces design time. As the transitions usually require more explicit data being added to models, PAM Building are also currently creating plugins to quickly add the full data, either automatically by system type, or through floor level and manual area selection.

By providing small file sizes in the generic content, it will make it easier for early stage specification in BIM and will speed up the whole planning process; this in turn will create measurable cost and time savings for our customers.

## AVAILABLE CONTENT



BS EN 877:1999  
+A1:2006 CAST  
IRON GENERIC  
BIM LIBRARY



BS 437:2008  
CAST IRON  
GENERIC BIM  
LIBRARY



**ENSIGN SOIL  
& EEZI-FIT  
BIM LIBRARY**  
BS EN 877:1999  
+A1:2006



**ENSIGN DRAIN  
BIM LIBRARY**  
BS EN 877:1999  
+A1:2006



**TIMESAVER  
DRAIN BIM  
LIBRARY**  
BS 437:2008

## BIM SERVICES

We have been developing BIM level 2 libraries in Revit for our ranges of soil and drain products.

Call our Technical team for further help: 01952 262529



CLICK OR SCAN THE QR CODE  
TO SEE HOW EFFECTIVE IT IS  
TO DESIGN IN REVIT WITH OUR  
PRE-ASSEMBLY LIBRARY





**NEW REGISTRATION REQUIRED TO KEEP UP TO DATE WITH NEW CONTENT/REVISED**



**FULL PARAMETRIC PIPE SYSTEMS GENERIC AND FULL DATA**



**ACCESS TO DESIGN AID PLUGINS**



**ACCESS TO GUIDANCE VIDEOS AND 'HOW TO?' FAQs**



**CONVERTER PLUGIN - NOW AVAILABLE!**



**CLICK OR SCAN THE QR CODE TO SEE HOW FAST AND EASY IT IS TO DESIGN WITH OUR BIM LIBRARY**

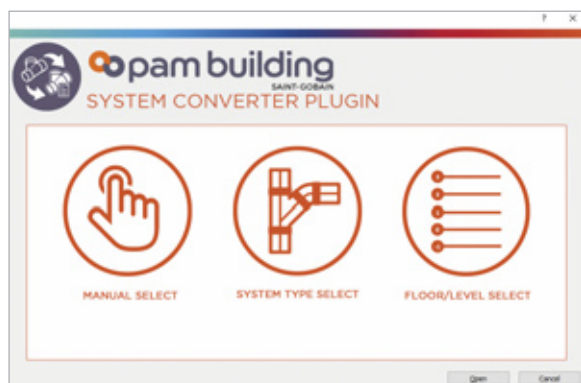


### **BS EN 877:1999+A1:2006 CAST IRON GENERIC LIBRARY**

- > Generic cast iron content
  - > Full range of Cast Iron fittings
  - > All families have 'real geometry'
  - > Generic coupling with 'fixing zone' visibility
  - > All fittings have constrained couplings which can be turned on/off
- > > No 'Manufacturer' data
- > All files are lightweight 500KB max.

### **PAM BUILDING'S CAST IRON ENSIGN SOIL LIBRARY**

- > Ensign soil full data content
  - > The PAM Building Conversion Plugin will overwrite the generic content to the Ensign content
- > > Minor modifications to project design stages
- > Time saving design for main contract BIM Engineers.



**For more information call our Technical team: 01952 262529**



# **TIMESAVER DRAIN**

## **CAST IRON DRAINAGE SOLUTIONS**



**THE TIMESAVER DRAIN CAST IRON BELOW GROUND SYSTEM HAS BEEN THE FIRST CHOICE FOR UNDER-BUILDING DRAINAGE FOR COMMERCIAL, PUBLIC AND RESIDENTIAL BUILDINGS SINCE 1980.**

**PRODUCT STANDARD: BS 437:2008**

**Timesaver is kitemark approved**



## APPLICATIONS

- > Underbuilding drainage—encased in concrete
- > Pipework to be laid in shallow trenches
- > Under roads
- > Unstable ground
- > Ground containing methane
- > Bridges

## FEATURES

- > 100, 150 and 225mm diameter pipes and fittings
- > Two piece ductile iron couplings
- > Section thickness from 8-15mm
- > Range of traditional British Standard fittings
  - > Bellmouth Gullies/inlets
  - > Gully traps
  - > Raising pieces
  - > Anti-flooding traps

## BENEFITS

- > Exceptional crush resistance—vastly superior to other materials
  - > Timesaver BS 437:2008 150 KN/m
  - > Clay 40 KN/m
  - > Plastic 6 KN/m
- > Robust strength
  - > To withstand over-vigorous rodding/jetting
  - > Can be installed where the ground is unstable
  - > Can be installed in shallow trenches
- > Less bedding materials required saving cost
  - > Can be laid in 'as dug' trenches
- > Fit and forget peace of mind
  - > BS 437:2008 connectivity with existing cast iron drainage systems.
- > Exceptional service life

## ENCASING PIPEWORK IN THE CONCRETE SLAB

- > Cast iron has the proven strength and crush resistance to withstand the weight of the concrete and remain robust during the pouring process unlike the more volatile lighter-weight plastic materials which can require filling to weigh them down.
- > Cast iron is not affected by the high temperatures generated during the pouring and curing process—which can reach temperatures in excess of 70°, depending on the volume of concrete.
- > Cost of failure can be very high if concrete slabs require digging up to repair drainage failures.

## ALL BENEFITS OF CAST IRON

- > Non-combustible fire rated A1
- > Excellent acoustic properties
- > Minimal expansion
- > Strong and robust
- > Excellent environmental properties:
  - > Made from up to 99% recycled content
  - > 100% recyclable
  - > Long life span

## TIMESAVER DRAIN & SOIL

### COATING

3m Pipes:

- > Internally lined with an ochre two-part epoxy coating
- > Externally coated in a black acrylic paint.


Fittings and couplings

- > Internally and externally coated in a black water-based paint.


### OVERPAINTING


- > The Timesaver coating shall accept over-coating with alkyd and water based paints normally used on metallic structures.

## PIPE

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £
3M DOUBLE SPIGOT PIPE						
 RAL 9005	TD00					
	100	26	56.1	A	156568	280.11
	150	11	95.1	A	156832	518.50
	225	4	195.0	A	157042	1,552.11

## COUPLINGS

STANDARD COUPLING (EPDM GASKET)						
	TD01					
	100	8	2.8	A	191294	59.80
	150	6	3.9	A	191295	72.45
	225	1	8.4	A	191296	166.03

STEPPED COUPLING (EPDM GASKET)						
	TD02					
	100	8	2.8	A	191297	62.05
	150	6	3.9	A	191298	75.52

## BRACKET

HANGING BRACKET OR WALL FIXING—CAST IRON						
	TD640					
	100	1	2.3	B	191358	50.09
	150	1	2.8	B	191359	52.92
	MILD STEEL HANGING BRACKET OR WALL FIXING M12					
	225	1	4.0	B	192374	150.97



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £
MEDIUM RADIUS BENDS						
              	TD06					
	87.5° MEDIUM RADIUS BENDS					
	100	1	8.1	A	191219	111.92
	150	1	16.0	A	191225	257.50
	225	1	41.5	B	191229	781.22
	80° MEDIUM RADIUS BEND					
	100	1	8.7	C	191218	119.53
	67.5° MEDIUM RADIUS BENDS					
	100	1	7.5	C	191217	119.53
	150	1	13.8	C	191224	257.50
60° MEDIUM RADIUS BEND						
100	1	6.0	B	191216	111.92	
45° MEDIUM RADIUS BENDS						
100	1	5.8	A	191215	95.10	
150	1	10.1	B	191223	206.06	
225	1	31.8	B	191228	781.22	
35° MEDIUM RADIUS BENDS						
100	1	4.6	A	191214	95.10	
150	1	9.3	B	191222	257.50	
22.5° MEDIUM RADIUS BENDS						
100	1	3.6	A	191213	95.10	
150	1	7.2	B	191221	192.94	
225	1	18.4	B	191227	781.22	
10° MEDIUM RADIUS BENDS						
100	1	3.0	A	191212	95.10	
150	1	5.2	B	191220	192.94	
225	1	13.0	C	191226	781.22	

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



## BELOW GROUND ▼

## DESCRIPTION

SIZE  
Ø mmPACK  
SIZENOMINAL  
WEIGHT  
KG

A DSC.

PRODUCT  
CODEUNIT  
PRICE £

## MEDIUM RADIUS BEND WITH REAR ACCESS

TD08

## 87.5° MEDIUM RADIUS BEND WITH REAR ACCESS

100	1	11.4	C	191233	245.63
150	1	20.3	C	191235	545.96
225	1	57.8	C	191237	1,196.85

## 45° MEDIUM RADIUS BEND WITH REAR ACCESS

100	1	8.7	C	191232	240.94
150	1	15.9	C	191234	588.46
225	1	46.8	C	191236	1,196.85

## MEDIUM RADIUS BEND WITH SIDE ACCESS



TD09

## 87.5° MEDIUM RADIUS BEND SIDE ACCESS

100	1	12.4	C	191239	310.94
150	1	20.5	C	191241	545.96
225	1	57.5	C	191243	1,167.71

## 45° MEDIUM RADIUS BEND SIDE ACCESS

100	1	10.0	C	191238	293.94
150	1	26.6	C	191240	713.46
225	1	46.8	C	191242	1,167.71

## ACCESS PIPES



TD56




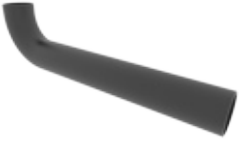


100	1	9.7	B	191344	276.47
150	1	15.4	C	191345	504.84
225	1	62.6	C	191346	1,226.32

## ACCESS DOOR SPARES KIT



Kits contain  
a door, 4 bolts  
and a gasket

100	1	–	C	259478	44.28
150	1	–	C	248137	202.63
225	1	–	C	259354	505.11

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼ DSC.	PRODUCT CODE	UNIT PRICE £
87.5 MEDIUM RADIUS BEND WITH HEEL REST						
	TD07					
	100	1	9.2	A	191230	128.37
	150	1	18.0	B	191231	357.27
87.5° LONG RADIUS BEND						
	TD15					
	100	1	12.9	B	191244	184.92
	150	1	24.1	C	191245	369.95
87.5° LONG RADIUS BEND WITH HEEL REST						
	TD22					
	100	1	15.1	B	191246	198.82
	150	1	28.0	C	191247	435.91
87.5° LONG TAIL BEND (815MM)						
	TD102					
	100 x 815	1	18.6	C	191289	283.63
87.5° LONG TAIL BEND (850MM) LARGE RADIUS						
	TD104					
	†100 x 850	1	33.0	C	197173	694.21
	†150 x 850	1	54.0	C	192699	1,119.29
45° CLEARING ARM BEND						
	TD425					
	100	1	11.9	C	191292	216.62

<sup>A</sup>Delivery Service Category DSC (see page 6)
 A =5 DAYS
 B =5-15 DAYS
 C =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £

## PLAIN SINGLE BRANCHES

TD37



## 87.5° PLAIN BRANCHES

100 x 100	1	7.6	A	191250	148.45
150 x 100	1	17.7	B	191252	320.59
150 x 150	1	21.8	C	191254	366.34
225 x 100	1	40.0	C	191256	948.88
225 x 150	1	46.3	C	191258	1,012.02
225 x 225	1	58.5	C	191260	1,124.90



## 67.5° PLAIN BRANCH

100 x 100	1	8.9	C	191249	156.28
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## 45° PLAIN BRANCHES

100 x 100	1	11.4	A	191248	148.45
150 x 100	1	16.6	B	191251	335.60
150 x 150	1	25.3	B	191253	366.34
225 x 100	1	42.0	C	191255	948.88
225 x 150	1	45.8	C	191257	1,012.02
225 x 225	1	64.4	C	191259	1,124.90

## SINGLE BRANCHES WITH ACCESS DOOR—RIGHT HAND

TD51



## 87.5° BRANCH WITH ACCESS DOOR—RIGHT HAND

100 x 100	1	14.2	C	191262	342.45
150 x 100	1	21.4	C	191264	632.21
225 x 150	1	67.3	C	191267	1,475.84
225 x 225	1	79.5	C	191269	1,568.95



## 45° BRANCH WITH ACCESS DOOR—RIGHT HAND

100 x 100	1	15.0	C	191261	342.45
150 x 100	1	21.9	C	191263	606.17
225 x 100	1	62.8	C	191265	1,430.39
225 x 150	1	66.8	C	191266	1,475.84
225 x 225	1	85.4	C	191268	1,568.95

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £

### SINGLE BRANCHES WITH REAR ACCESS

TD52



#### 87.5° BRANCH WITH REAR ACCESS

100 x 100	1	13.4	C	191271	342.45
150 x 100	1	22.9	C	191273	632.21
225 x 100	1	62.8	C	191275	1,430.39
225 x 150	1	62.4	C	191276	1,475.84
225 x 225	1	79.5	C	191278	1,568.95



#### 45° BRANCH WITH REAR ACCESS

100 x 100	1	16.1	C	191270	358.95
150 x 100	1	22.9	C	191272	606.17
225 x 100	1	63.0	C	191274	1,430.39
225 x 225	1	84.40	C	191277	1,568.95

### SINGLE BRANCHES WITH ACCESS DOOR—LEFT HAND

TD53



#### 87.5° BRANCHES WITH ACCESS DOOR—LEFT HAND

100 x 100	1	11.7	C	191280	358.95
150 x 100	1	21.2	C	191282	632.21
225 x 100	1	61.0	C	191284	1,430.39
225 x 150	1	67.3	C	191286	1,475.84
225 x 225	1	79.5	C	191288	1,568.95



#### 45° BRANCHES WITH ACCESS DOOR—LEFT HAND

100 x 100	1	15.0	C	191279	358.95
150 x 100	1	21.2	C	191281	606.17
225 x 100	1	62.8	C	191283	1,430.39
225 x 150	1	66.8	C	191285	1,475.84
225 x 225	1	85.4	C	191287	1,568.95

### DOUBLE PLAIN BRANCH 87.5°

TD447

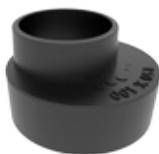


100 x 100	1	10.6	C	191293	252.42
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<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £

## TAPER PIPE



TD41						
150 x 100	1	3.5	B	191333	145.84	
225 x 100	1	13.6	B	191334	373.99	
225 x 150	1	13.4	B	191335	373.99	
*225 x 200	1	6.2	C	191336	333.26	
*225 x 250	1	9.8	C	192431	347.08	

\*Connects with a 200 and 250mm Ensign coupling (ED001)

## SOCKET FERRULE WITH C.I. CAP



TD36						
100	1	3.4	C	191330	188.80	

## BLANK END—PLAIN (FOR BSP BLANK END CONNECTION USE GT71 AND STEPPED COUPLING TD02)



TD34						
100	1	1.3	A	191326	48.11	
150	1	2.5	B	191327	91.79	
225	1	10.7	B	191328	422.67	

## TRANSITIONAL PIPE ADAPTOR FROM TIMESAVER DRAIN TO SUPERSLEVE









TD118						
100	1	2.1	B	191350	77.24	
150	1	5.0	B	191351	135.27	

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £
GULLY TRAP—PLAIN						
	TD60					
	87.5° GULLY TRAP—PLAIN					
	100	1	12.1	B	191399	148.45
	150	1	24.4	C	191400	369.39
	45° GULLY TRAP—PLAIN					
	100	1	11.5	C	191398	394.80
	180° GULLY TRAP—PLAIN					
	100	1	14.1	C	191397	202.84
87.5° GULLY TRAP WITH SURFACE ACCESS						
	TD107					
	100	1	23.3	C	191402	429.26
87.5° GULLY TRAP WITH 225MM INLET						
	TD64					
	100	1	24.0	C	191401	362.30
HORIZONTAL RUNNING TRAP WITH DOUBLE ACCESS						
	TD475					
	100	1	23.0	C	191404	739.95
	150	1	55.4	C	191405	1,261.81
	225	1	143.0	C	191406	3,622.68

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	BELOW GROUND ▼	
					PRODUCT CODE	UNIT PRICE £
GULLY INLET—PLAIN (BODY ONLY)						
	100	1	8.4	B	TD500	
					191301	154.61
GULLY INLET WITH HORIZONTAL BRANCH (BODY ONLY)						
	100 x 100	1	10.5	C	TD105	
					191299	207.74
GULLY INLET WITH VERTICAL BRANCH (BODY ONLY)						
	100 x 100	1	13.7	C	TD106	
					191300	207.74
PLAIN RAISING PIECE 190MM TO BELLMOUTH TD500/TD105/TD106						
	100 x 150 high	1	7.8	C	TD525	
	100 x 300 high	1	13.4	C	191303	425.93
	Max Load 2T				191305	425.93
PLAIN GRATE						
	200	1	1.6	B	TD612	
					191385	18.95
SOLID COVER						
	200	1	2.1	C	TD613	
					191386	83.50
Max Load 2T						

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	BELOW GROUND ▼ PRODUCT CODE	UNIT PRICE £
HINGED AND LOCKING GRATE						



					TD614	
200	1	1.9	C	191387	299.78	
Max Load 2T						

## SEALED PLATE AND FRAME



				TD615	
200	1	2.8	B	191388	152.41
Max Load 2T					

## GREASED SEALED COVER AND FRAME



				TD616	
200	1	1.7	C	191389	167.72
Max Load 2T					

## RAISING PIECE—PLAIN 225MM Ø



TD678					
75 high	1	9.5	C	191363	228.34
115 high	1	11.6	C	191365	260.11
150 high	1	13.5	C	191364	303.03
225 high	1	17.0	C	191366	322.19
300 high	1	21.5	C	191367	336.21

## RAISING PIECE WITH 100MM Ø INLET







					TD108	
225 high	1	19.1	C	191347	308.44	



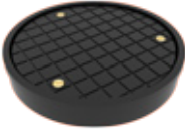

## RAISING PIECE WITH 3 X 100MM Ø 90° INLETS





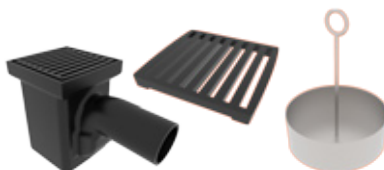
					TD111	
225 high	1	23.1	C	191348		819.93

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼ ΔDSC.	PRODUCT CODE	UNIT PRICE £
GULLY INLET—TAPERED PLAIN						
	TD684					
	100	1	12.9	B	191368	218.82
	150	1	16.0	C	191369	246.85
GULLY INLET—TAPERED WITH 100MM Ø INLET						
	TD120					
	100 x 100	1	14.2	C	191352	284.80
GULLY INLET—TAPERED WITH 3 X 100MM Ø 90° INLETS						
	TD123					
	100 x 100	1	20.3	C	191353	473.34
TRAPLESS GULLY WITH 87.5° OUTLET						
	TD467					
	100	1	17.7	C	191403	365.25

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	BELOW GROUND ▼ PRODUCT CODE	UNIT PRICE £
LIGHT GRATE						
	TD650					
	265	1	3.6	B	191390	42.50
Max Load 2T						
HEAVY GRATE						
	TD651					
	265	1	8.0	B	191391	72.45
Max Load 7.5T						
HINGED AND LOCKING GRATE						
	TD653					
	265	1	5.3	C	191360	423.33
Max Load 2T						
SEALED PLATE AND FRAME						
	TD661					
	265	1	5.2	C	191361	140.87
Max Load 7.5T						
GREASE SEALED COVER AND FRAME						
	TD662					
	265	1	6.5	C	191362	392.26
Max Load 2T						

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	BELOW GROUND ▼	
					PRODUCT CODE	UNIT PRICE £
DEANS TRAP—600MM DEEP WITH 87.5° OUTLET						
	TD550					
	100	1	55.4	C	191407	735.38
	GALVANISED SEDIMENT PAN					
		1	1.9	C	191181	268.18
Can be used with grating options TD650 to TD653 and TD661/2 Grate not included						
GULLY TRAP—435MM DEEP WITH 87.5° OUTLET						
	TD551					
	100	1	30.8	B	191408	613.88
	GALVANISED SEDIMENT PAN					
	—	1	2.0	C	191182	247.97
Can be used with grating options TD650 to TD653 and TD661/2 Grate not included						
SQUARE TOP GULLY TRAP—255 X 250 X 415MM DEEP WITH 87.5° OUTLET						
	TD553					
	100	1	26.8	C	191381	506.25
	GALVANISED SEDIMENT PAN					
	—	1	1.0	C	191183	104.40
GRATE TO SUIT						
	—	1	3.2	C	191380	232.52
GARAGE GULLY—300 X 545MM DEEP WITH 87.5° OUTLET						
	TD554					
	100	1	80.7	C	191410	1,560.90
	GALVANISED SEDIMENT PAN					
	—	1	3.0	C	191184	342.80
GRATE TO SUIT						
	—	1	23.0	B	191382	194.53
This product is available with 1, 2 or 3 Fresh Air Inlets — P.O.A.						


				BELOW GROUND ▼		
DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	PRODUCT CODE	UNIT PRICE £
RAISING PIECE FOR TD554						
	TD559					
	305mm Ø x 75mm high	1	12.7	C	191354	313.19
	305mm Ø x 150mm high	1	20.4	C	191356	361.30
	305mm Ø x 300mm high	1	37.0	C	191355	612.81
TRAPLESS GULLY TRAP—300 X 615MM DEEP WITH 87.5° OUTLET						
	TD556					
	100	1	45.4	C	191409	570.70
GALVANISED SEDIMENT PAN						
	—	1	1.9	C	191181	268.18
GARAGE GULLY TRAP—405 X 610MM DEEP WITH 87.5° OUTLET						
	TD558					
	100	1	74.6	C	191418	1,738.53
	GALVANISED SEDIMENT PAN					
	—	1	3.9	C	191185	291.82
	GRATE TO SUIT					
	—	1	23.1	C	191383	264.39
AIRTIGHT INSPECTION EYE COVER						
B125 Load Rating 	TD724					
	100	1	11.1	C	191394	298.09
	150	1	14.0	C	191395	337.75
ANTI-FLOODING VALVE						
Used with TD550 & TD551 	TD756					
	225	1	22.6	C	191421	1,172.01
LOOSE PUDDLE FLANGE						
	TD777					
	100	1	3.7	B	191371	127.71
	150	1	5.6	C	191372	137.17
	225	1	8.1	C	191373	384.38

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS




DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼  ΔDSC.	PRODUCT	UNIT
					CODE	PRICE £
INSPECTION CHAMBER WITH ONE BRANCH EACH SIDE						
	TD14					
	100 x 100	1	19.6	B	191306	523.22
	150 x 100	1	24.7	B	191307	677.89
	150 x 150	1	42.8	C	191308	860.24
	†225 x 100	1	100.0	C	191309	2,539.81
	†225 x 150	1	110.0	C	191310	2,748.46
	†225 x 225	1	174.0	C	191311	3,388.58

## INSPECTION CHAMBERS WITH TWO BRANCHES EACH SIDE

	TD17					
	100 x 100	1	40.3	B	191312	1,030.01
	150 x 100	1	55.9	C	191313	1,376.78
	150 x 150	1	87.2	C	191314	1,717.74
	†225 x 100	1	210.0	C	191315	3,786.88
	†225 x 150	1	210.8	C	191316	3,853.56
	†225 x 225	1	240.0	C	191317	5,204.96

## 'EUREKA' ANTI-FLOOD TRUNK VALVE (DOUBLE SPIGOT)

	TD750					
	150	1	44.0	C	191420	4,797.44

Non Return Valve

## 'EUREKA' ANTI-FLOODING TRUNK VALVE (SOCKET AND SPIGOT)

	TD750					
	100	1	42.2	C	191593	4,262.89
	†225	1	244.1	C	191594	12,132.03
	†300	1	414.3	C	191870	22,213.44

The PAM Building range of traditional drain anti-flooding traps and valves are progressively being updated.

This involves the removal of the traditional socket and the spigot bead, which will simplify installation, enabling connections to be made with standard ductile iron mechanical couplings.

## 'EUREKA' ANTI-FLOODING TRUNK VALVE

	TD752					
	†100	1	76.9	C	191595	5,667.01
	†150	1	126.1	C	191596	7,071.15
	†225	1	381.4	C	191597	14,970.59

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	BELOW GROUND ▼ PRODUCT CODE	UNIT PRICE £
INTERCEPTING TRAPS FITTED WITH PLUG – TRADITIONAL BS 437 FITTINGS						



					TD477	
100	1	32.7	C	191602	1,227.79	
150	1	57.2	C	191603	1,888.21	

#### INTERCEPTING TRAP FITTED WITH PLUG



					TD479	
100	1	35.7	C	191605	1,626.95	

#### INTERCEPTING TRAPS



					TD481	
100	1	34.1	C	191607	1,380.57	
150	1	57.1	C	191610	1,986.26	
225	1	152.0	MTO	287094	7,875.00	
300	1	259.0	MTO		10,687.50	

#### FRESH AIR INLET LEFT HAND (L/H) & RIGHT HAND (R/H)

100 L/H	1	100.0	C	191608	1,093.87
100 R/H	1	100.0	C	191609	1,465.15
150 L/H	1	110.0	C	191611	2,172.59
150 R/H	1	110.0	C	191612	2,172.59
225 L/H	1	152.0	MTO	287101	8,625.00
225 R/H	1	152.0	MTO	287146	8,625.00
300 L/H	1	259.0	MTO		11,062.50
300 R/H	1	259.0	MTO		11,062.50

Contact our technical team for more information.

#### ACCESSORIES

##### CAULKING COMPOUND

–	1	12	C	222754	480.52
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##### HARDENER

–	1	1.45	C	222753	155.15
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<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

# **TIMESAVER SOIL**

## **CAST IRON DRAINAGE SOLUTIONS**

**THE TIMESAVER SOIL SYSTEM WAS THE FIRST MECHANICALLY JOINTED CAST IRON SYSTEM LAUNCHED IN 1973, FOR USE ON ABOVE-GROUND SOIL AND WASTE, VENT AND RAINWATER INSTALLATIONS SERVING COMMERCIAL, PUBLIC AND RESIDENTIAL BUILDINGS FOR OVER 49 YEARS.**

**PRODUCT STANDARD:**

**BS 416-2:1990 mechanically jointed systems**

**Timesaver is kitemark approved**



## APPLICATIONS

### REFURBISHMENT

- > Prestigious commercial buildings built in the late 1970's to the late 90's which are serviced by cast iron soil stacks, will most likely be Timesaver or traditional socket and spigot soil systems. If the building is to be refurbished or changes are to be made retaining some of the existing pipework—then Timesaver is the best suited to connect to the original pipework.
- > Heritage external soil stacks—traditional appearance sanitary soil pipework installed on the outside of the building.
- > Commercial, public and residential buildings
  - > Sanitary soil, vent and waste pipes
  - > Internal rainwater systems

### FEATURES

- > 50, 75, 100 and 150mm diameter pipes and fittings
- > 1.8m (6ft) double spigot pipes in 75 and 100mm
- > Two piece ductile iron mechanical couplings
- > Traditional 'Heritage' push-fit sockets
  - > 50, 75 and 100mm (150mm see Ensign)
- > Comprehensive fittings range
  - > Swept branches in compliance with BS EN 12056-2:2000
  - > Access bends and branches
  - > Waste connection fittings

## BENEFITS

- > Push-fit Heritage style couplings
  - > To give a traditional appearance without the labour intensive caulking of socket and spigot pipework
  - > The most inclusive range 50-100mm
- > Pipes available in 1.8m (6ft) in 75 and 100mm diameters to support this field of application
- > Complete range of pipes and fittings to support refurbishment of existing Timesaver stacks in commercial buildings
- > All benefits of cast iron
  - > A1 Fire rated non-combustible system
  - > Excellent acoustic properties
  - > Minimal expansion
  - > Strong and robust
  - > Excellent environmental properties:
    - > Made from up to 99% recycled content
    - > 100% recyclable
    - > Long life span

## TIMESAVER DRAIN & SOIL

### COATING

#### 3m Pipes:

- > Internally lined with an ochre two-part epoxy coating
- > Externally coated in a black acrylic paint.

#### Fittings and couplings

- > Internally and externally coated in a black water-based paint

### OVERPAINTING

- > The Timesaver coating shall accept over-coating with alkyd and water based paints normally used on metallic structures



DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼ ΔDSC.	PRODUCT CODE	UNIT PRICE £
3M DOUBLE SPIGOT PIPE						

## GT00



50	53	19.5	A	156366	156.00
75	50	25.0	A	156456	174.30
100	38	28.0	A	156567	210.92
150	26	43.0	A	156831	440.42

## GT01



50	32	0.9	A	191691	26.92
75	24	1.1	A	191692	29.74
100	15	1.4	A	191693	38.82
150	8	3.1	A	191694	77.49

## GT12



65 x 75	1	1.3	A	191695	31.48
*70 x 75	1	1.2	A	191429	31.48
90 x 100	1	1.5	A	191696	40.57

\* Connects to 70mm Ensigns

## GT48



50	48	0.3	A	191720	18.03
75	30	0.5	A	191721	19.75
100	30	0.6	A	191722	20.24
150	16	0.8	A	191723	37.48

## WALL FIXING BRACKET (CAN BE FITTED WITH ACOUSTIC DAMPENER TO ORDER)

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼ ΔDSC.	PRODUCT CODE	UNIT PRICE £
SHORT RADIUS PLAIN BENDS						
   	GT02					
	87.5° SHORT RADIUS PLAIN BENDS					
	50	1	1.3	A	191620	47.42
	75	1	2.6	A	191622	53.64
	100	1	4.7	A	191631	65.67
	150	1	4.4	C	191634	117.24
	67.5° SHORT RADIUS PLAIN BEND					
	100	1	2.2	C	191625	65.67
	45° SHORT RADIUS PLAIN BENDS					
	50	1	0.5	A	191619	47.42
	75	1	2.4	A	191621	53.64
	100	1	3.3	A	191626	65.67
	150	1	3.1	B	191632	117.24
	11° SHORT RADIUS PLAIN BEND					
	100	1	1.3	C	191628	56.59
SHORT RADIUS BENDS WITH REAR ACCESS						
 	GT03					
	87.5° SHORT RADIUS BENDS WITH REAR ACCESS					
	50	1	1.9	B	191636	116.90
	75	1	3.6	B	191638	128.82
	100	1	4.3	B	191642	138.86
	150	1	6.1	C	191644	197.22
	45° SHORT RADIUS BENDS WITH REAR ACCESS					
	75	1	3.9	C	191637	126.82
	100	1	4.6	C	191640	138.86
	150	1	8.1	C	191643	197.22
87.5° SHORT RADIUS BEND WITH SIDE ACCESS						
	GT04					
	100	1	4.8	C	191646	138.86

ΔDelivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	BELOW GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £
LONG RADIUS BENDS						
   	GT02L					
	87.5° LONG RADIUS BENDS					
	75	1	4.6	C	191623	107.62
	100	1	4.7	B	191630	106.29
	150	1	8.5	C	191635	231.80
	45° LONG RADIUS BEND					
	100	1	6.0	C	191627	113.52
	22.5° LONG RADIUS BENDS					
	100	1	1.9	C	191624	106.29
	150	1	5.6	C	191633	255.78
	5° LONG RADIUS BEND					
	100	1	1.4	C	191629	65.67
87.5° LONG RADIUS BENDS WITH REAR ACCESS						
	GT03L					
	87.5° LONG RADIUS BENDS WITH REAR ACCESS					
	75	1	5.9	C	191639	159.02
	100	1	5.8	C	191641	179.61
	150	1	10.7	C	191645	316.40
87.5° LONG RADIUS BEND WITH SIDE ACCESS						
	GT04L					
	100	1	7.5	C	191647	179.61
87.5° LONG TAIL BEND 250MM LONG						
	GT43					
	100	1	4.3	C	191688	84.82

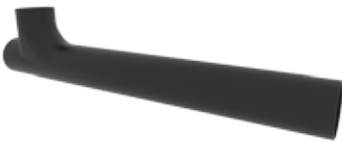


DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	BELOW GROUND ▼ PRODUCT CODE	UNIT PRICE £
87.5° LONG TAIL BEND 815MM LONG						



				GT55	
100	1	15.1	C	191689	290.76

87.5° LONG TAIL BRANCH SWEPT RADIUS 915MM LONG						
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					GT56	
100 x 100	1	7.0	C	191690	281.17	

SINGLE BRANCHES						
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GT06						
87.5° SWEPT RADIUS BRANCHES (EQUAL AND UNEQUAL)						
50 x 50	1	1.0	B	191649	71.37	
75 x 50	1	2.5	B	191651	80.79	
75 x 75	1	3.2	C	191653	80.79	
100 x 50	1	2.4	B	191655	101.53	
100 x 75	1	4.1	C	191657	101.53	
100 x 100	1	3.3	A	191660	101.53	
150 x 100	1	7.6	C	191662	192.48	
150 x 150	1	11.7	C	191664	251.58	



67.5° PLAIN BRANCH						
100 x 100	1	2.5	C	191658		101.53



45° BRANCHES (EQUAL AND UNEQUAL)						
50 x 50	1	1.4	C	191648	71.37	
75 x 50	1	3.5	C	191650	91.41	
75 x 75	1	4.4	C	191652	98.59	
100 x 50	1	2.4	C	191654	101.53	
100 x 75	1	4.9	C	191656	120.72	
100 x 100	1	3.7	B	191659	101.53	
150 x 100	1	5.8	C	191661	282.40	
150 x 150	1	8.5	C	191663	251.58	

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼		
				<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £

## SINGLE BRANCHES WITH REAR ACCESS

## GT07

87.5° SINGLE BRANCHES SWEPT RADIUS WITH REAR ACCESS  
(EQUAL AND UNEQUAL)

50 x 50	1	2.7	C	191665	155.46
75 x 50	1	3.0	C	191666	155.46
75 x 75	1	3.6	C	191668	155.46
100 x 50	1	3.2	C	191670	174.81
100 x 75	1	4.8	C	191672	174.81
100 x 100	1	4.1	B	191674	174.81
150 x 100	1	9.0	C	191676	312.72
150 x 150	1	12.0	C	191678	372.08

45° SINGLE BRANCHES WITH REAR ACCESS  
(EQUAL AND UNEQUAL)

100 x 100	1	6.9	C	191673	174.81
150 x 100	1	10.8	C	191675	338.91

## 87.5° SINGLE BRANCH SWEPT RADIUS WITH SIDE ACCESS—RIGHT HAND

## GT08



100 x 100	1	5.7	C	191679	174.81
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## 87.5° SINGLE BRANCH SWEPT RADIUS WITH SIDE ACCESS—LEFT HAND

## GT09



100 x 100	1	5.8	C	191680	174.81
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## DOUBLE BRANCHES

## GT10






## 87.5° DOUBLE BRANCHES—SWEPT RADIUS (EQUAL AND UNEQUAL)

75 x 75	1	4.9	C	191681	119.97
100 x 100	1	4.3	C	191683	125.54
150 x 100	1	10.7	C	191684	353.52

## 45° DOUBLE BRANCH

100 x 100	1	4.5	C	191682	125.54
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DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	ABOVE GROUND ▼	
					PRODUCT CODE	UNIT PRICE £
87.5° DOUBLE BRANCH—SWEPT RADIUS WITH ACCESS						
					GT11	
	100 x 100	1	7.0	C	191685	198.81
87.5° CORNER SWEPT RADIUS BRANCH						
					GT35	
	100 x 100	1	3.4	C	191687	178.49
87.5° BRANCH SWEPT RADIUS WITH 1 X 50MM BSP BOSS BACK						
					GT06	
	100	1	5.4	C	191743	135.97
87.5° BRANCH SWEPT RADIUS WITH 1 X 50MM BSP BOSS RIGHT HAND						
					GT06	
	100	1	4.7	C	191745	135.97
87.5° BRANCH SWEPT RADIUS WITH 1 X 50MM BSP BOSS LEFT HAND						
					GT06	
	100	1	4.7	C	191744	135.97
PARALLEL BRANCH						
					GT32	
	100 x 100	1	7.9	C	191686	123.86

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	<sup>A</sup> DSC.	ABOVE GROUND ▼ PRODUCT CODE	UNIT PRICE £
ACCESS PIPES WITH ROUND DOOR						



## GT14

100	1	3.2	A	191698	119.97
150	1	6.3	C	191699	199.56

## ACCESS PIPES WITH OVAL DOOR



## GT14

75	1	4.1	A	191697	114.15
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## ACCESS PIPES WITH RECTANGULAR DOOR



## GT15

100	1	7.2	C	191700	236.34
150	1	16.4	C	191701	361.81

## OFFSETS



Diameter x Projection

## GT24






75 x 75	1	2.4	C	191702	70.03
75 x 115	1	3.4	C	191704	76.97
75 x 150	1	3.7	C	191703	90.43
100 x 75	1	2.2	B	191705	69.08
100 x 115	1	3.6	C	191709	97.50
100 x 150	1	4.7	C	191706	97.50
100 x 225	1	5.6	C	191707	127.92
100 x 300	1	6.8	C	191708	122.06

## TAPER PIPES



## GT28

75 x 50	1	0.6	C	191710	65.25
100 x 50	1	0.9	C	191711	82.83
100 x 75	1	0.9	B	191712	82.83
150 x 100	1	2.2	C	191713	161.22

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	ABOVE GROUND ▼	
					PRODUCT CODE	UNIT PRICE £
AIR~WAVE VENT CAP						
	GT75					
	100	1	0.6	B	280545	15.00
BLANK ENDS—PLAIN						
	GT70					
	50	1	0.2	B	191724	16.49
	75	1	0.5	B	191725	20.58
	100	1	0.8	A	191726	19.95
	150	1	1.9	C	191727	28.82
BLANK ENDS WITH 50MM PUSH-FIT CONNECTOR						
	GT71					
	75	1	0.5	C	191728	40.54
	100	1	0.9	C	191729	43.48
	150	1	2.0	C	191731	52.26
BLANK ENDS D/T 2" BSP						
	GT71T					
	100	1	0.9	C	191730	49.22
UNIVERSAL CONNECTOR EPDM						
	EF07IR					
	50 x 56/48/40 (OD Dimension)	1	0.1	B	155759	22.69

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼		
				ΔDSC.	PRODUCT CODE	UNIT PRICE £
BOSS PIPES WITH SINGLE BOSS						
	GT106					
	BOSS PIPES WITH SINGLE BOSS AND 50MM WASTE COMPRESSION JOINTS					
	50	1	1.1	C	192236	98.20
	100	1	2.2	A	192237	117.24
	150	1	3.8	C	192239	191.37
BOSS PIPES WITH SINGLE BOSS AND D/T 50MM BSP						
	75	1	1.7	A	191739	98.20
	100	1	1.7	B	192238	120.93
BOSS PIPES WITH 2 X 50MM BOSSES OPPOSED AND 50MM WASTE COMPRESSION JOINT						
	GT109					
	100	2	2.5	C	192240	151.65
	150	2	4.5	C	192360	216.65
BOSS PIPES WITH 2 X 50MM BOSSES AT 90° AND 50MM WASTE COMPRESSION JOINT						
	GT115					
	100	2	2.8	C	192241	151.65
STRAP ON BOSS						
	GT133					
	100	1	1.2	A	192323	96.29
HOLE SAW ARBOUR WITH DRILL (ACCESSORY TOOLS FOR USE WITH GT133)						
	—	1	0.2	C	192327	67.89
64MM HOLE SAW FOR CAST IRON (ACCESSORY TOOLS FOR USE WITH GT133)						
	—	1	0.2	C	192326	69.43
PILOT DRILL (ACCESSORY TOOLS FOR USE WITH GT133)						
	—	1	0.03	C	192328	17.09

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼ ΔDSC.	PRODUCT	UNIT
					CODE	PRICE £
BOSS PIPE 240MM LONG WITH 2 X 50MM BOSSES IN LINE AND PUSH-FIT CONNECTION						



				GT132	
100	2	3.1	C	191742	153.22

#### ASPHALT ROOF VENT CONNECTOR



					GT73	
100	1	2.1	C	191733		113.40

#### BELLMOUTH GULLY INLET



				GT483	
100	1	2.4	C	191737	152.36

#### GRATE TO SUIT

—	1	1.6	B	191385	18.95
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#### LOOSE PUDDLE FLANGE (GREY EPOXY COATED)



ED078					
100	1	4.0	C	191829	111.55

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



## TRAPS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼ ΔDSC.	PRODUCT CODE	UNIT PRICE £
'P' TRAP						



GT34

100	1	4.4	C	191714	105.26
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## 'P' TRAPS WITH HEEL ACCESS (\*NO SUPPORT LUG)



GT37

*50	1	2.0	C	191715	161.10
*75	1	6.7	C	191716	161.10
100	1	5.3	C	191717	178.53
150	1	12.0	C	191718	311.71

## ACCESSORIES

## RATCHET SPANNER



EF100

—	1	0.6	B	191201	116.15
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## 'T' SPANNER (BOX)



EF098

—	1	0.1	B	191200	12.69
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## 13MM DEEP SOCKET



EF101

—	1	0.1	B	191202	29.20
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## TIMESAVER HERITAGE SYSTEM

**Timesaver Heritage is a mechanically jointed cast iron soil system to BS 416-2:1990, British Standard Kitemark approved.**

The range includes push-fit couplings that turn a mechanical system into one with a traditional socket appearance of yesteryear, as depicted in BS 416-1:1990 — but without the labour intensive caulked jointing method.

Supplied in a black water based primer coat the product is easy to overpaint and is the modern solution for external cast iron soil stacks, often seen on listed buildings, pre-1960's housing and properties situated in areas of conservation.

The Heritage couplings are available in 50, 75, 100 and 150mm diameters that connect standard Timesaver pipe and fittings. Pipes are available in 3m lengths for 50mm and 150mm diameter (also available on 75 and 100mm) and 1.8m (6ft) lengths in 75 and 100mm diameters specifically introduced to meet this field of application.

The Heritage couplings are available in three types:

- > With fixing ears to fit to the wall
- > Plain without ears for connection only
- > Slip version available to use when pipework already installed.



## COUPLING GASKETS

**PAM Building have introduced new gaskets for the Heritage couplings to ease installation further.**



- 1** Apply a small amount of lubricant (i.e. lubricant prod code 199037) on the lip of the rubber gaskets, both ends, to ease insertion of pipe/fittings.

The rubber seals are factory fitted to the socket, and a suitable lubricant is recommended to ease the assembly.



- 2** Push joint over the end of pipe/fitting. Ensuring the central register is abutted against the spigot edge evenly. If the joint is eared, fix to wall using anti-corrosion coach screws or similar.



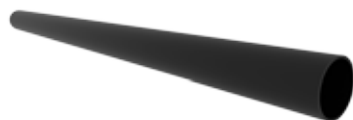
- 3** Push the second pipe or fitting into the gasket again ensuring that the spigot is abutted.



<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ABOVE GROUND ▼ DSC.	PRODUCT CODE	UNIT PRICE £

## DOUBLE SPIGOT PIPE



### GT00

50 x 3m	35	19.5	A	156366	156.00
75 x 1.8m (6ft)	1	15.0	A	206854	114.07
100 x 1.8m (6ft)	1	18.5	A	192423	134.05
150 x 3m	20	43.0	A	156831	440.42

## HERITAGE PLAIN COUPLINGS—PUSH-FIT JOINT



### GT05P

50	1	1.4	A	192418	42.64
75	1	1.4	A	206855	46.81
100	1	1.8	A	192421	49.00
150	1	3.6	C	266537	79.10

## HERITAGE COUPLINGS EARED—PUSH-FIT JOINT



### GT05E

50	1	1.4	A	192417	43.94
75	1	2.1	A	206856	48.22
100	1	2.6	A	192420	53.22
150	1	3.6	C	266536	83.54

## HERITAGE COUPLINGS SLIP—PUSH-FIT JOINT



### GT05S

50	1	1.4	C	192419	55.23
75	1	1.9	C	206836	57.37
100	1	2.6	B	192422	64.52
150	1	3.6	C	266538	92.98

## GASKET TO SUIT 100MM PUSH-FIT JOINT







100	10	1.0	C	156133	7.41
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## STEPPED CONVERSION COUPLER (100MM TO 90MM)



### GT05T

100 x 90	10	1.0	C	259732	50.68
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DESCRIPTION	SIZE Ø mm	PACK SIZE	NOMINAL WEIGHT KG	ΔDSC.	ABOVE GROUND ▼	
					PRODUCT CODE	UNIT PRICE £
BRACKET TO SUIT 100MM EARED (EC001E/GT05E) PUSH-FIT JOINT						
	EF053					
	100	1	0.2	C	192333	67.18
450MM EXTENDED ARM BRACKET						
	EF053A					
	100	1	0.2	C	192363	67.18
CAST IRON WALL SPACER PLATE						
	50	1	0.2	C	192424	9.70
	75	1	0.3	C	206838	9.70
	100	1	0.4	B	192425	9.70
LUBRICANT 500G TUB (TO SUIT EARED PUSH-FIT JOINTS GT05E)						
	—	1	0.4	C	199037	32.39

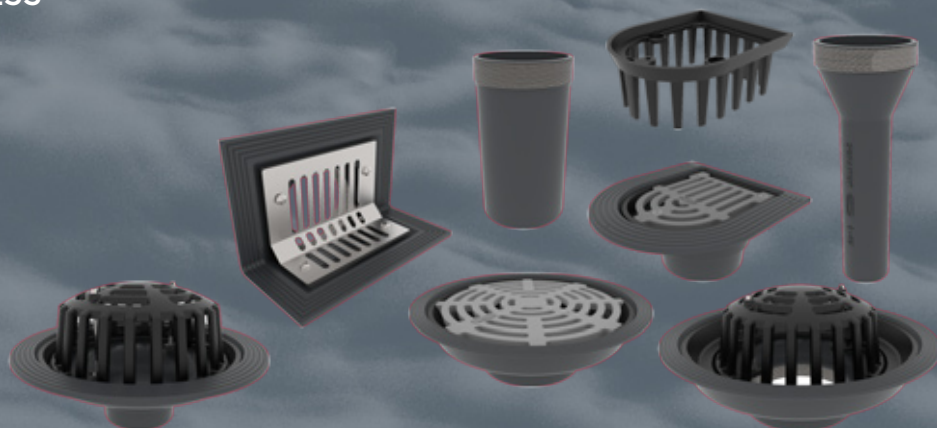
<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

# VORTX

## CAST IRON ROOF OUTLETS

OUR RANGE OF ROOF, FLOOR AND  
SHOWER DRAINAGE PRODUCTS  
DESIGNED IN COMPLIANCE WITH  
BS EN 1253 CRITERIA AND BACKED  
BY THE QUALITY COMMITMENT OF THE  
PAM BUILDING BRAND WITH NEARLY  
100 YEARS' EXPERIENCE IN DRAINAGE.

PRODUCT STANDARD:  
BS EN 1253





## APPLICATIONS

- > Various flat roof structures
  - > Concrete
  - > Timber
  - > Lightweight metal structure
- > Warm, cold and inverted roofs
- > Parapet wall construction
- > Load bearing situations exposed to vehicular traffic i.e. car parks

## FEATURES—CAST IRON BODIES WITH SPIGOTS OR BSP

- > Vertical spigot roof outlets in 100mm and 150mm diameters
  - > 88° and 45° angled roof outlets in 100mm
  - > Flexible clamping ring
- > Balcony outlets with Flat or notched gratings
- > Two-way or parapet outlets
- > Smaller diameter outlets (50/70mm):
  - > 100mm BSP Outlets with reducing spigot adaptors VX-F501
- > Raising pieces and gravel guard

## BENEFITS

- > Strong and robust performance
- > Clamping Ring on the vertical and angled roof outlets can accommodate a liquid membrane of 2-3mm to full membranes with hot bitumen of 8mm
- > Robust domical gratings in cast iron
- > Quality coatings with proven performance for these applications
  - > Black polyester for performance in sunlight
  - > Sheradised gratings to protect for load bearing applications
- > Optimised range of bodies
- > High flow rates—tested by CRM Rainwater Drainage Consultancy
  - > 150mm vertical roof outlet achieved 14.5 l/s

## VORTX ROOF OUTLETS

### COATINGS

#### GREY EPOXY

- > Cast iron bodies

#### BLACK POLYESTER

- > Domical gratings to suit vertical and angled roof outlets
- > All clamping rings
- > All raising pieces

#### SHERADISED COATING

- > Flat gratings to suit vertical and angled roof outlets
- > Flat and notched gratings to suit balcony outlets.

**NEW**

**ALUMINIUM ROOF OUTLETS—SEE PAGE 92 FOR DETAILS**



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £
VERTICAL ROOF OUTLET WITH FLAT GRATE AND 110MM SPIGOT (SUITABLE FOR CAR PARK APPLICATIONS)								
	VX-R100							
	110mm OD Spigot	1	10.5	8.1	L15	B	241180	159.62
For 150mm use 6" BSP with spigot adapter								
VERTICAL ROOF OUTLET WITH DOME GRATE AND 110MM SPIGOT								
	VX-R105							
	110mm OD Spigot	1	8.9	10.7	K3	B	241181	159.62
For 150mm use 6" BSP with spigot adapter								
VERTICAL ROOF OUTLETS WITH FLAT GRATE (SUITABLE FOR CAR PARK APPLICATIONS)								
	VX-R150							
	4" BSP	1	10.5	8.1	L15	B	241182	168.75
								
	6" BSP	1	14.9	14.2	L15	C	247428	328.31
For smaller diameter outlets 70mm and 50mm call Technical Department on 01952 262529								
VERTICAL ROOF OUTLETS WITH DOME GRATE								
	VX-R155							
	4" BSP	1	8.9	10.7	K3	B	241183	168.75
								
	6" BSP	1	12.4	14.5	K3	C	247418	328.31
BALCONY ROOF OUTLET WITH FLAT GRATE AND 110MM SPIGOT								
	VX-R300							
	110mm OD Spigot	1	6.3	4.99	K3	B	241184	136.86
TWO WAY OUTLET WITH FLAT STEEL GRATE								
	VX-R501							
	4" BSP	1	6.2	1.09	K3	C	247964	132.25
For smaller diameter outlets 70mm and 50mm use spigot adapter VX-500/VX-F501								
RAISING PIECE TO SUIT 100MM AND 150MM VERTICAL OUTLETS								
	VX-R710							
	285 x 75mm high	1	2.5	—	—	B	241193	63.86
RAISING PIECE TO SUIT BALCONY OUTLETS								
	VX-R720							
	50mm effective high	1	0.9	—	—	C	241194	63.86

DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
BSP SPIGOT ADAPTORS								



Length			VX-F500					
4" BSP to 110mm	215mm	1	2.7	—	—	A	227131	28.03
6" BSP to 160mm	300mm	1	4.6	—	—	C	247429	103.31
**2" BSP to 56mm	215mm	1	1.1	—	—	A	234207	17.76

\*\*Used with reducing bushes

BSP ADAPTORS								
--------------	--	--	--	--	--	--	--	--



						VX-F501	
CONCENTRIC							
300 x 80mm to 4"	1	2.8	—	—	A	256615	40.71
300 x 60mm to 4"	1	2.3	—	—	A	256613	33.66

DOMICAL GRATE SUITES WITH VERTICAL ANGLED OUTLETS								
---	--	--	--	--	--	--	--	--



1	2.4	—	—	C	247775	77.54
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FLAT GRATES—TO SUIT VERTICAL ANGLED OUTLETS								
---	--	--	--	--	--	--	--	--



100mm	1	4.0	—	—	C	247776	64.77
150mm	1	4.8	—	—	C	247777	64.77

STAINLESS STEEL GRAVEL GUARD & STRAINERS—TO SUIT VERTICAL ANGLED OUTLETS								
--	--	--	--	--	--	--	--	--



Gravel Guard						VX-R730	
290 x 155mm	1	0.2	—	—	C	247752	101.23



Strainers						VX-R740	
290mm x 300mm	1	3.3	—	—	C	253154	196.13
290mm x 200mm	1	2.8	—	—	C	253155	186.57

CLAMPING RINGS—TO SUIT VERTICAL ANGLED OUTLETS								
--	--	--	--	--	--	--	--	--



100mm	1	1.3	—	—	C	247778	53.83
150mm	1	3.3	—	—	C	247779	53.83

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

NEW

# VORTX

## ALUMINIUM ROOF OUTLETS

PAM BUILDING'S VORTX RANGE HAS BEEN EXPANDED WITH A NEW LINE OF ALUMINIUM ROOF OUTLETS FEATURING FLAT AND DOMED GRATES, DESIGNED FOR FLAT ROOFING PROJECTS. BOTH SPIGOT AND SCREW CONNECTION MODELS ARE AVAILABLE.

Our aluminium roof outlets provide a lightweight, robust and corrosion-resistant option with excellent flow performance to BS EN 12056.

The VortX aluminium roof outlets are manufactured in LM6 Aluminium Silicon casting alloy to BS EN 1706:2010, to suit most roof finishes.

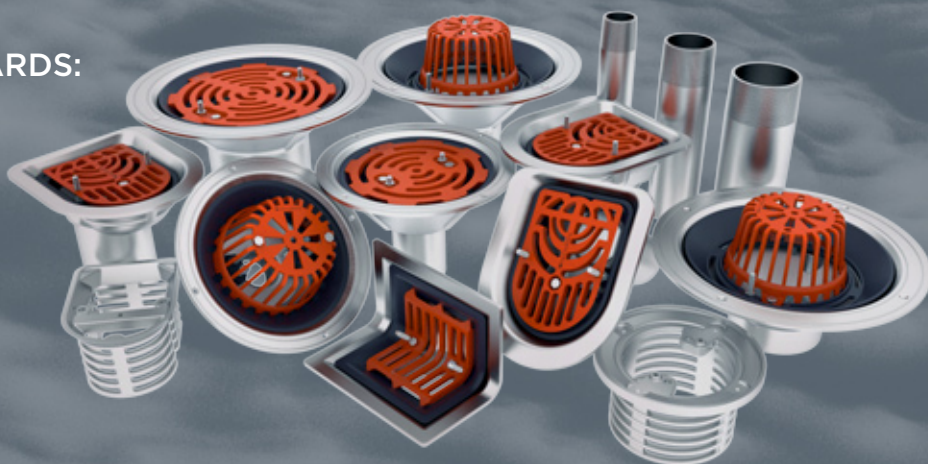
- > Our range can be fitted in almost any type of roof construction, with a comprehensive selection of accessories including threaded adaptors and extending rings.
- > The clamping ring ensures that the waterproof membrane is securely fitted, creating a strong and reliable seal.
- > Installation is quick and easy and thanks to the simplicity of the solution no maintenance is required throughout its 40+ year life.
- > We have designed the range with circularity in mind and as such our aluminium roof outlets are made from 80% recycled material and are 100% recyclable at end of life.
- > Thanks to the corrosion-resistant properties of aluminium all products in this new range have a life expectancy of over 40+ years.






**THIS NEW RANGE EMBODIES OUR MOTTO - SAFE AND SUSTAINABLE BY NATURE.**

### PRODUCT STANDARDS:

BS EN 12056







BS EN 1706:2010






DESCRIPTION	SIZE mm (Ø mm)	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH DOME GRATE							VX-AV2-D	
	300 x 260h (50Ø)	1	2.48	1.7	A15	B	286059	145.08
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH FLAT GRATE							VX-AV2-F	
	300 x 200h (50Ø)	1	2.80	1.7	A15	B	286058	145.08
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH DOME GRATE							VX-AV2T-D	
	300 x 186h (50Ø)	1	2.34	1.7	A15	B	286054	148.27
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH FLAT GRATE							VX-AV2T-F	
	300 x 124h (50Ø)	1	2.50	1.7	A15	B	286090	148.27
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH DOME GRATE							VX-AV3-D	
	300 x 260h (75Ø)	1	2.38	5.0	A15	B	286063	190.10
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH FLAT GRATE							VX-AV3-F	
	300 x 200h (75Ø)	1	2.68	5.0	A15	B	286062	192.52

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



DESCRIPTION	SIZE mm (Ø mm)	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	ΔDSC.	PRODUCT CODE	UNIT PRICE £
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH DOME GRATE							VX-AV3T-D	
	300 x 186 (75Ø)	1	2.18	5.0	A15	B	286061	190.10
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH FLAT GRATE							VX-AV3T-F	
	300 x 124h (75Ø)	1	2.50	5.0	A15	B	286060	192.52
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH DOME GRATE							VX-AV4-D	
	382 x 304h (100Ø)	1	3.00	10.7	A15	B	286067	247.60
<b>NEW</b> VERTICAL SPIGOT OUTLET WITH FLAT GRATE							VX-AV4-F	
	382 x 245h (100Ø)	1	3.58	10.7	A15	B	286066	270.02
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH DOME GRATE							VX-AV4T-D	
	382 x 195h (100Ø)	1	3.00	10.7	A15	B	286065	270.53
<b>NEW</b> VERTICAL THREADED BSP OUTLET WITH FLAT GRATE							VX-AV4T-F	
	382 x 136h (100Ø)	1	3.58	10.7	A15	B	286064	289.24

DESCRIPTION	SIZE mm (Ø mm)	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
<b>NEW VERTICAL SPIGOT OUTLET WITH DOME GRATE</b>								
	VX-AV6-D							
	382 x 300h (150Ø)	1	3.52	15.1	A15	B	286071	317.18
<b>NEW VERTICAL SPIGOT OUTLET WITH FLAT GRATE</b>								
	VX-AV6-F							
	382 x 245h (150Ø)	1	4.12	16.4	A15	B	286070	335.86
<b>NEW VERTICAL THREADED BSP OUTLET WITH DOME GRATE</b>								
	VX-AV6T-D							
	382 x 170h (150Ø)	1	3.08	15.2	A15	B	286069	324.01
<b>NEW VERTICAL THREADED BSP OUTLET WITH FLAT GRATE</b>								
	VX-AV6T-F							
	382 x 115h (150Ø)	1	3.70	15.9	A15	B	286068	342.69
<b>NEW BALCONY OUTLET WITH FLAT GRATE</b>								
	VX-AB2-F							
	265 x 230w x 229h (50Ø)	1	2.71	1.7	A15	B	286081	171.81
<b>NEW BALCONY OUTLET WITH FLAT GRATE</b>								
	VX-AB3-F							
	265 x 230w x 229h (75Ø)	1	2.74	5.0	A15	B	286080	197.52
<b>NEW BALCONY OUTLET WITH FLAT GRATE</b>								
	VX-AB4-F							
	265 x 230w x 229h (100Ø)	1	2.78	7.55	A15	B	286079	242.61

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS



# VORTX ROOF AND FLOOR DRAINAGE

## ALUMINIUM TWO WAY OUTLETS

NEW

### TWO-WAY OUTLET WITH FLAT GRATE



VX-ATW3-F

214 x 254w x 192h (75Ø)

1

2.14

4.13

A15

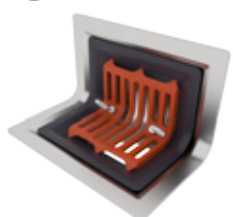
B

286083

249.02

NEW

### TWO-WAY OUTLET WITH FLAT GRATE



VX-ATW4-F

214 x 254w x 192h (100Ø)

1

2.24

7.83

A15

B

286082

261.86

## ALUMINIUM ACCESSORIES

NEW

### VERTICAL OUTLET EXTENSION RING



VX-AER2/3

230 x 125h (50/75Ø)

1

1.40

N/A

A15

B

286078

80.08

NEW

### VERTICAL OUTLET EXTENSION RING



VX-AER4/6

230 x 125h (100/150Ø)

1

1.35

N/A

A15

B

286077

91.59

NEW

### BALCONY OUTLET EXTENSION RING



VX-AER-B

208 x 158w x 112h

1

1.35





N/A

A15

B

286076

105.96

DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
<b>NEW</b> THREADED ADAPTOR X 300MM							VX-ADP2-300	
	58 x 300h (50Ø)	1	0.81	N/A	A15	B	286075	33.67
<b>NEW</b> THREADED ADAPTOR X 300MM							VX-ADP3-300	
	83 x 300h (75Ø)	1	1.19	N/A	A15	B	286074	43.51
<b>NEW</b> THREADED ADAPTOR X 300MM							VX-ADP4-300	
	110 x 300h (100Ø)	1	1.77	N/A	A15	B	286073	57.58
<b>NEW</b> THREADED ADAPTOR X 300MM							VX-ADP6-300	
	158 x 300h (150Ø)	1	2.54	N/A	A15	B	286072	97.31

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

# VORTX

## FLOOR DRAINAGE

PAM BUILDING VORTX OFFERS A  
SIMPLIFIED RANGE OF FLOOR DRAINAGE  
PRODUCTS FOR MOST APPLICATIONS

PRODUCT STANDARD:  
BS EN 1253





## APPLICATIONS

- > Suitable for all commercial and industrial applications
- > Grates available for tiled, marble, terrazzo, concrete, vinyl and resin floors.
- > Gratings Load class options as depicted in BS EN 1253:
  - > K3—Pedestrian areas and wet room applications such as shower areas, bathrooms, swimming baths, leisure centres, balconies, retail areas, hotels, offices, schools, public buildings, hospitals, prisons, terraces and roof gardens
  - > L15—Areas of light vehicular traffic such as cycle ways and domestic drives
  - > M125—Car parks

## FEATURES












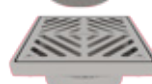
- > Simplified range of trapped and untrapped cast iron gullies
- > Lighter weight P-Trap and S-Trap gullies
- > New cast iron modular gullies with spigot/BSP outlets that configure to:
  - > Deep sumps/bell traps/brewery traps

- > Gratings and rodding eyes:
  - > Nickel bronze & stainless steel
  - > Cast iron
  - > New Anti-Ligature stainless-steel gratings
- > Full range of accessories
  - > Security screws
  - > Cast iron raising pieces
  - > Spigot adaptors for various pipe diameter connections

## BENEFITS

- > Simplified range easy to navigate and specify
- > S-trap offers space saving—only requiring a 180mm core hole
- > Saving cost
- > Cast iron gullies are robust and are grey epoxy coated
- > Spigot adaptors to connect to most pipe sizes and materials
- > New modular deep sump gullies that can configure to bell and brewery type traps.










DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	ΔDSC.	PRODUCT CODE	UNIT PRICE £	
150MM CIRCULAR GRATINGS IN STAINLESS STEEL									
	VX-F020								
	S	150mm NPSM	1	1.5	2.0	K3	A	227050	163.64
	S	150mm Direct Fit	1	1.5	2.0	K3	A	233407	163.64
150MM SQUARE GRATINGS IN STAINLESS STEEL									
	VX-F040								
	S	150mm NPSM	1	1.2	2.2	K3	A	227102	163.64
	S	150mm Direct Fit	1	1.2	2.2	K3	A	233421	163.64
200MM SQUARE GRATINGS IN STAINLESS STEEL									
	VX-F060								
	S	200mm NPSM	1	2.8	3.0	K3	A	227104	260.71
	S	200mm Direct Fit	1	2.8	3.0	K3	A	233424	260.71
150MM CIRCULAR GRATINGS IN STAINLESS STEEL FOR VINYL FLOORS									
	VX-F080								
	S	150mm NPSM	1	2.1	1.85	K3	A	227112	233.29
	S	150mm Direct Fit	1	2.1	1.85	K3	A	233435	233.29
150MM CIRCULAR GRATINGS IN CAST IRON									
	VX-F090								
		150mm NPSM	1	2.9	1.5	L15	C	247771	85.85
		150mm Direct Fit	1	3.0	1.5	L15	C	247773	85.85
150MM SQUARE GRATINGS IN CAST IRON									
	VX-F100								
		150mm NPSM	1	2.9	1.5	L15	C	247772	92.13
		150mm Direct Fit	1	3.0	1.5	L15	C	247774	92.13

DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
150MM CIRCULAR RODDING EYES IN STAINLESS STEEL								
	S	150mm Direct Fit	1	1.6	N/A	K3	A	204.78
							VX-F025 233427	
150MM SQUARE RODDING EYES IN STAINLESS STEEL								
	S	150mm NPSM	1	1.3	N/A	K3	A	204.78
							VX-F045 227108	
	S	150mm Direct Fit	1	1.3	N/A	K3	A	204.78
							233430	
200MM SQUARE RODDING EYES IN STAINLESS STEEL								
	S	200mm Direct Fit	1	3.1	N/A	K3	A	260.71
							VX-F065 233433	
150MM CIRCULAR RODDING EYES IN STAINLESS STEEL FOR VINYL FLOORS								
	S	150mm Direct Fit	1	2.2	N/A	K3	A	247.37
							VX-F085 233439	
ABS AIRTIGHT BUNG (CAN BE FITTED TO RODDING EYES TO MAKE A DOUBLE SEAL)								
	105mm	1	0.1	N/A	—	C	241195	6.55
							VX-F430	
SCREWS & ALLEN KEY (BAG OF 4 SECURITY SCREWS AND ALLEN KEY)								
	—	1	0.1	—	—	C	233455	7.47
							VX-F420	

S = Standard Finish

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	ΔDSC.	PRODUCT CODE	UNIT PRICE £
UNTRAPPED FLOOR GULLIES WITH MEDIUM SUMP (110MM)								
	110mm	1	2.4	—	—	A	VX-F200	
							227119	30.39
UNTRAPPED FLOOR GULLIES WITH MEDIUM SUMP (4" BSP)								
	4" BSP	1	2.6	—	—	A	VX-F200	
							227118	37.33
UNTRAPPED FLOOR GULLY WITH SUMPLESS BODY								
	110mm NPSM	1	1.6	—	—	A	VX-F210	
							227120	35.47
P TRAP FLOOR GULLY								
	110mm	1	6.4	—	—	A	VX-F220	
							227129	96.31
S TRAP FLOOR GULLY								
	110mm	1	6.4	—	—	A	VX-F230	
							227130	96.31
CLAMPING RING TO SUIT FLOOR GULLIES								
	205mm	1	0.7	—	—	A	VX-F205	
							233440	13.46
RAISING PIECES								
							VX-F350	
							227121	36.07
							227122	45.18
							227123	55.90



PLEASE NOTE: ALL PARTS ON THIS PAGE WILL BE MAKE TO ORDER

## CAST IRON DEEP SUMP BODY WITH 3 X 2" BSP INLETS—EPOXY-COATED



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
110mm OD Spigot Outlet		1	12.3	—	—	C	260384	163.76
4" BSP Outlet		1	11.5	—	—	C	260385	182.30
6" BSP Outlet		1	10.1	—	—	C	260386	193.57

Body can also include 4" BSP inlet upon request

## BELL TRAP BODY WITH 3 X 2" BSP INLETS AND 4" NPSM REDUCING COLLAR—EPOXY-COATED CAST IRON



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
110mm OD Spigot Outlet		1	12.3	—	—	C	260387	301.43

Can be fitted with Nickel Bronze/Stainless Steel Gratings

Body can also include 4" BSP inlet upon request

## BREWERY TRAP 3 X 2" BSP INLETS WITH 300MM SQUARE CAST IRON GRATING—BODY EPOXY-COATED CAST IRON/GRATING SHERADISED



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
110mm OD Spigot Outlet		1	29.6	—	—	C	260389	656.21

Body can also include 4" BSP inlet upon request

## BREWERY TRAP 3 X 2" BSP INLETS WITH 300MM SQUARE CAST IRON GRATING—BODY EPOXY-COATED CAST IRON/GRATING SHERADISED



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
4" BSP Outlet		1	28.6	—	—	C	260390	675.53

Body can also include 4" BSP inlet upon request

## 300 X 300MM SQUARE GRATING IN DUCTILE IRON—SHERADISED TO SUIT VXF215/250



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
4" NPSM		1	14.5	—	M125	C	260393	164.61

## 300 X 300MM SQUARE GRATING IN DUCTILE IRON—SHERADISED TO SUIT BELL TRAP VX-F250



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
100mm Direct Fit		1	14.4	—	—	C	260396	160.66

## REDUCING RING TO SUIT BELL TRAP AND DEEP SUMP—EPOXY-COATED CAST IRON



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>Δ</sup> DSC.	PRODUCT CODE	UNIT PRICE £
4" NPSM		1	0.5	—	—	C	260397	57.72

<sup>Δ</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

# VORTX

## SHOWER DRAINS

**ROBUST CAST IRON  
SHOWER GULLIES IN  
100MM AND 50MM WITH  
A RANGE OF STAINLESS-  
STEEL GRATINGS TO  
SUIT MOST TYPES OF  
SOLID OR SUSPENDED  
FLOOR CONSTRUCTION.**

### APPLICATIONS

- > Commercial, public and residential buildings
- > Solid or suspended floors
- > Tiled or flexible sheet floor membranes
- > Anti-ligature gratings for incarceration areas i.e. prisons, etc.

### FEATURES

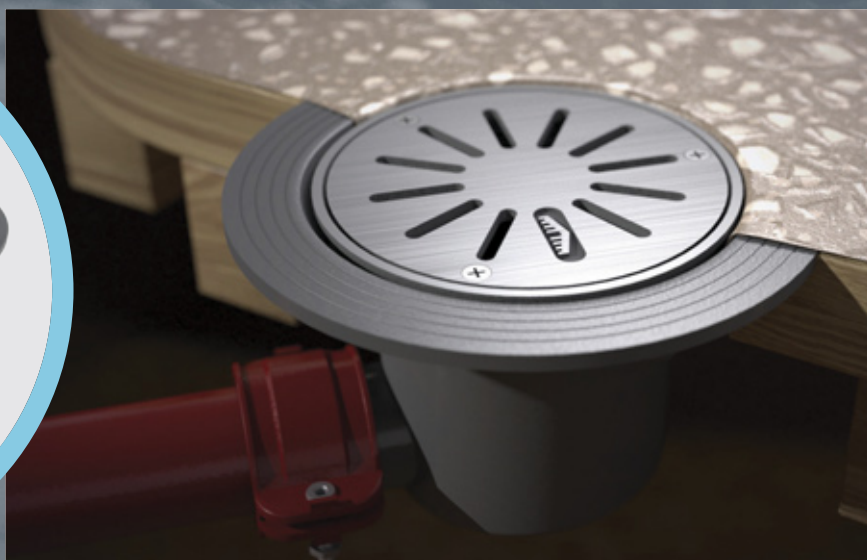
- > Vertical and horizontal shower gullies 100mm and 50mm
- > Cast iron grey epoxy coated
- > 50mm removable bottle trap with unique twist and lock mechanism
- > Stainless-steel gratings

### BENEFITS

- > Robust cast iron solutions
- > Unique twist and lock removable trap
- > Available in kit format
- > Cost effective with other materials
- > Simplified range

### SHOWER DRAIN KITS

VortX shower drain kits consist of a cast iron body with vertical or horizontal outlet, a removable bottle trap and a stainless-steel grating supplied all together in a box.



## HORIZONTAL SHOWER DRAIN KITS



Our Shower Drain Kits are made to give you everything you need in one box. When ordering one of the kit codes you will get the grating of your choice (A), a bottle trap (B) and either a vertical or horizontal drain (C).



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £
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### SHOWER DRAIN KIT WITH 60MM CAST IRON HORIZONTAL SHOWER DRAIN —SUPPLIED COMPLETE IN A BOX



Kit includes:  
VX-S261 60mm Shower Drain and VX-F400 Bottle Trap plus a Stainless Steel Grating to suit listed below

TO ORDER THE WHOLE KIT PLEASE USE THE CODE LISTED NEXT TO THE REQUIRED GRATING

### SHOWER DRAIN KIT 60MM CAST IRON HORIZONTAL SHOWER DRAIN WITH VX-S270 150MM CIRCULAR STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.4	0.9	K3	C	239748	156.95
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### SHOWER DRAIN KIT 60MM CAST IRON HORIZONTAL SHOWER DRAIN WITH VX-S270 150MM DECORATIVE STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.3	0.9	K3	C	239752	156.95
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### SHOWER DRAIN KIT 60MM CAST IRON HORIZONTAL SHOWER DRAIN WITH VX-S271 150MM SQUARE STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.6	0.9	K3	C	239750	159.88
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### SHOWER DRAIN KIT 60MM CAST IRON HORIZONTAL SHOWER DRAIN WITH VX-S271 150MM DECORATIVE SQUARE STAINLESS STEEL GRATING FOR TILED FLOOR

S	150mm	1	3.5	0.9	K3	C	239754	159.88
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S = Standard Finish

<sup>A</sup>Delivery Service Category DSC (see page 6) A =5 DAYS B =5-15 DAYS C =15-30 DAYS

## VERTICAL SHOWER DRAIN KITS



Our Shower Drain Kits are made to give you everything you need in one box. When ordering one of the kit codes you will get the grating of your choice (A), a bottle trap (B) and either a vertical or horizontal drain (C).



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £
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### SHOWER DRAIN KIT WITH 60MM CAST IRON VERTICAL SHOWER DRAIN —SUPPLIED COMPLETE IN A BOX



Kit includes:  
VX-S260 60mm Shower Drain and VX-F400 Bottle Trap plus a Stainless Steel Grating to suit listed below

TO ORDER THE WHOLE KIT PLEASE USE THE CODE LISTED NEXT TO THE REQUIRED GRATING

### SHOWER DRAIN KIT 60MM CAST IRON VERTICAL SHOWER DRAIN WITH VX-S270 150MM CIRCULAR STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.3	1.1	K3	C	239740	156.95
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### SHOWER DRAIN KIT 60MM CAST IRON VERTICAL SHOWER DRAIN WITH VX-S270 150MM DECORATIVE STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.3	1.1	K3	C	239744	156.95
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### SHOWER DRAIN KIT 60MM CAST IRON VERTICAL SHOWER DRAIN WITH VX-S271 150MM SQUARE STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.5	1.1	K3	C	239742	159.88
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### SHOWER DRAIN KIT 60MM CAST IRON VERTICAL SHOWER DRAIN WITH VX-S271 150MM DECORATIVE SQUARE STAINLESS STEEL GRATING FOR VINYL FLOOR

S	150mm	1	3.4	1.1	K3	C	239746	159.88
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PLEASE NOTE THAT THE 60MM DRAIN WILL ALSO CONNECT TO A 110MM PIPE

S = Standard Finish



DESCRIPTION	SIZE	PACK SIZE	NOMINAL WEIGHT KG	FLOW RATE L/S	LOADING CLASS	<sup>A</sup> DSC.	PRODUCT CODE	UNIT PRICE £
CAST IRON SHOWER DRAINS (BODY ONLY) VERTICAL								



60mm OD								VX-S260
1								227126
2.4								46.75
—								A
—								227126
PLEASE NOTE: this will also connect to 110mm								

CAST IRON SHOWER DRAIN (BODY ONLY) HORIZONTAL								
---	--	--	--	--	--	--	--	--



60mm OD								VX-S261
1								227127
2.5								46.75
—								A
—								227127

REMOVABLE BOTTLE TRAP ABS								
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50mm Trap								VX-F400
1								227128
0.1								35.51
—								C
—								227128

STAINLESS STEEL FILTER BASKET TO SUIT SHOWER DRAINS								
---	--	--	--	--	--	--	--	--



110mm								VX-F410
1								227138
0.2								39.28
—								C
—								227138

CIRCULAR STAINLESS STEEL GRATINGS TO SUIT SHOWER DRAINS FOR VINYL FLOOR								
---	--	--	--	--	--	--	--	--



				Horiz/Vert Drain					VX-S270
S	150mm	1	0.8	0.9/1.1	K3	A	227132	74.69	

CIRCULAR DECORATIVE STAINLESS STEEL GRATINGS TO SUIT SHOWER DRAINS FOR VINYL FLOOR								
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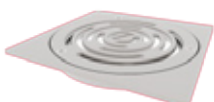
				Horiz/Vert Drain					VX-S270
S	150mm	1	0.7	0.9/1.1	K3	A	227133	74.69	

SQUARE STEEL GRATINGS TO SUIT SHOWER DRAINS FOR VINYL FLOOR								
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				Horiz/Vert Drain					VX-S271
S	150mm	1	1.0	0.9/1.1	K3	A	227134	77.59	

DECORATIVE SQUARE STEEL GRATINGS TO SUIT SHOWER DRAINS FOR TILED FLOOR								
--	--	--	--	--	--	--	--	--



				Horiz/Vert Drain					VX-S271
S	150mm	1	0.9	0.9/1.1	K3	A	227135	77.59	

<sup>A</sup>Delivery Service Category DSC (see page 6) **A** =5 DAYS **B** =5-15 DAYS **C** =15-30 DAYS

At its foundry in Telford, Shropshire, the birthplace of cast iron production in the UK, PAM Building remains at the forefront of the design and manufacturing of high-performing cast iron above and below ground drainage systems for commercial, public and residential buildings. PAM Building in France manufactures the 3m pipes and the Telford site manufactures the fittings and ductile iron couplings and brackets to complete the ranges for all PAM Building's worldwide markets.



We are pleased to announce that our Ensign and Eezi-Fit range is now UKCA marked. The UKCA mark came into effect on 1st January 2021 and the CE mark will no longer be recognised on the Great Britain market from 1st January 2023.

By using the UKCA mark we declare that our product conforms to BS EN 877:1999+A1:2006, AVCP system 3 for the reaction of fire to the product and system 4 for all other characteristics. These tests have been conducted in a UKAS accredited lab in the UK. Our declaration of conformity and technical documentation is available on our website.



## SYSTEM, PRODUCT AND SUSTAINABILITY ACCREDITATION

<b>BS EN ISO 50001:2018</b>	For Energy Management Systems. Programme of Continual Improvement exceeding targets for energy reduction Certificate Number: ENMS710926
<b>BS EN ISO 9001:2015</b>	Quality Management Systems Certificate Number: FM756208
<b>BS EN ISO 14001:2015</b>	Environmental Management Systems Certificate Number: EMS756212
<b>BS EN ISO 45001:2018</b>	Occupational Health & Safety Management System Certificate Number: OHS 756213
<b>BES 6001</b>	Responsible Sourcing of Construction Materials Certificate Number: BES600635
<b>Carbon Reduce Certification</b>	Carbon Reduce Certified Certificate Number: 2023017J  Meets the requirements of Carbon Reduce certification having measured its greenhouse gas emissions in accordance with ISO 14064 Part 1 2018 and is committed to managing and reducing its emissions in respect of its operational activities.

## PRODUCT CERTIFICATION

<b>BS EN 877:1999+A1:2006</b>	Ensign/EEZI-FIT Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings. Requirements, test methods and quality assurance. Certificate Number: KM51733
<b>BS 416-2:1990</b>	Timesaver Soil Discharge and ventilating pipes and fittings, sand-cast or spun in cast iron. Specification for socketless systems Certificate Number: KM06979
<b>BS 437:2008</b>	Timesaver Drain Specification for cast iron drain pipes, fittings and their joints for socketed and socketless systems Certificate Number: KM06980



## CONTACTS



ALL CONTACT DETAILS BELOW ARE  
CLICKABLE FOR INSTANT ACCESS

### Sales Managers

CLICK OR SCAN THE QR CODE  
TO FIND YOUR LOCAL SALES MANAGER  
TEL: 01952 262500



### Technical Team

General technical enquiries and stock checking  
technical.pambuilding@saint-gobain.com | Tel: 01952 262529



### Customer Service Team

Available to help you Mon to Fri between 8.30am-5pm  
Order processing and order updates  
orders.pambuilding@saint-gobain.com | Tel: 01952 262508



### After Sales

If you have concerns about anything after  
you've received your order, please let us know

**01952 262520**  
aftersales.pambuilding@saint-gobain.com



### Website

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- > Links for technical help
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- > Access to all product data sheets

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[www.pambuilding.co.uk](http://www.pambuilding.co.uk) to download electronic versions or to request hard copies of any of our brochures.

### Orders & Customer Services:

Tel: 01952 262508

Email: [orders.pambuilding@saint-gobain.com](mailto:orders.pambuilding@saint-gobain.com)

### Technical Sales Enquiries

Tel: 01952 262529

Email: [technical.pambuilding@saint-gobain.com](mailto:technical.pambuilding@saint-gobain.com)

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