# **Product Guide** Take a closer look at our clay drainage Hepworth Fired to Perfection CLAY

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#### A name to trust

Hepworth Clay has built a reputation second to none for product quality, technical ability and customer service something we are rightly proud of. We offer a complete range of drainage systems, offering you the most suitable product for every application.

Wavin is the UK's leading supplier of water management, plumbing and drainage systems for building, civil construction and utilities. Wavin expertise and innovative technology provide highly-efficient, cost-effective installations for managing rain and surface water, soil and waste, sewers, hot and cold water supply, and surface heating and cooling. All with assured quality, nationwide availability and delivery, and comprehensive customer service.

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### Features and Benefits

#### Benefits of Hepworth Clay

- Sustainability Clay pipes have low embodied CO<sub>2</sub>, with a true cradle to cradle pedigree, including low environmental impact in raw material sourcing, highly efficient manufacturing processes, a long service life and true end-of-life recyclability.
- Quality Hepworth Clay drainage systems are Kitemarked to EN295. Regular third party inspections are made by UK, European and worldwide quality inspectors.
- Durability Lifetime expectancy in excess of 100 years.
- Strength Clay has the ability to withstand high imposed loads. The pipe strength alone is sufficient to withstand most loading situations, with minimal reliance on bedding material. Equally, this strength allows the use of as-dug or recycled aggregate as bedding material, depending on site ground conditions.
- Recycled Aggregate The use of such material reduces both costs and environmental impact during the construction process, with no associated reduction in quality or increase in risk see bedding tables on p.19.
- Chemical Resistance As vitrified clay is one of the most inert materials in existence, the pipes are unaffected by any effluent acceptable in an adopted sewer system or by aggressive ground conditions.
- Comprehensive range Including drainage systems for both housing and civils projects, communication and power ducting and surface water collection and dispersal.
- Standard short length pipes are available, minimising pipe cutting and reducing installation time.

#### **System Applications**

System	Nominal Diameter (mm)	Applications	Specification
SuperSleve HouseDrain	100	Around the house drainage for foul and surface water.	BS EN 295-1: 2013
SuperSleve	150, 225, 300	Foul and surface water in housing, industrial & commercial, highway drainage and adoptable sewers.	BS EN 295-1: 2013
HepLine	100, 150, 225, 300	Surface water collection – highways, playing fields, sports grounds, forestry, waste tips and general land drainage. Effluent dispersal in housing and industrial developments.	BS EN 295-5: 2013
Unjointed	100, 150, 225, 300	A traditional system of spigot and sockets for cement mortar jointing, suitable for refurbishment and replacement of traditional drains.	BS 65:1991

#### Lifetime Jetting Guarantee

All products in the Hepworth Clay Drainage range are guaranteed\* for the system lifetime against penetration of the pipe wall caused by the following jetting criteria:

- High pressure water jet used at a pressure of up to 7,500 psi (517 bar)
- · At a flow rate not exceeding 20 gallons per minute (1.5 litres per second)
- Held immobile for a constant period of not more than 5 minutes
- \* When laid in accordance with Hepworth Clay instructions and the requirements of the codes of practice and guides relevant to their use.



## SuperSleve HouseDrain

SuperSleve HouseDrain was developed specifically for 'Around the House' drainage, but is equally suitable for adoptable, commercial and industrial developments.

It is the most modern and appropriate response to drainage requirements and is fully compatible with other SuperSleve products.

	Description	Nom Dia mm	Cat No
SuperS	leve HouseDrain		
	Pipe		
	Plain Ended −100mm x 1.6m ♥ (€	100	SP1
	Rocker 0.3m ♥ <b>( €</b>	100	SP030/1
	0.6m ♥ C €	100	SP060/1
	1.0m ♥ (€	100	SP100/1
	Fittings		
	Couplings (polypropylene) With EPDM sealing rings ♥ ( €	100	SC1/1
	With Nitrile sealing rings ♥ (€	100	SC3/1
	War Mane codaing ringe \$ CC	100	000/1
Will a	90° Bend	400	0004/40
	Single Socket ♥ ( €	100 100	SDB1/1S SB1/1
	Plain Ended ♥ ( €	100	301/1
	45° Bend		
	Single Socket ♥ C €	100	SDB2/1S
	Plain Ended ♥ C €	100	SB2/1
	30° Bend		
	Single Socket ♥ (€	100	SDB3/1S
	Plain Ended ♥ C €	100	SB3/1
	15° Bend		
	Single Socket ♥ (€	100	SDB4/1S
	Plain Ended ♥ ( €	100	SB4/1
	Flexible Bend (0-25°)		
BANNAM.	Single Socket	100	SFB1/1
•	45° Oblique Junction		
	Double Socket 100mm x 100mm ♥ ( €	100	SDJ1/1D
	Plain Ended 100mm x 100mm ♥ (€	100	SJ1/1
	,		
	90° Curved Square Junction		
	90° Curved Square Junction Double Socket 100mm x 100mm ♥ (€	100	SDJ2/1D
		-	
	Plain Ended 100mm x 100mm $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	100	SJ2/1
	Oblique Saddle	400	0.104.44
Bar	Small – for pipes up to and including 300mm dia. $\heartsuit$ ( $\epsilon$	100	SJS1/1
	Large – for pipes larger than 300mm	100	SJS2/1
A STATE OF THE PARTY OF THE PAR	dia. ♥ <b>( €</b>		
	Square Saddle		
	Small – for pipes up to and including 300mm dia. $\mbox{\ensuremath{\heartsuit}}$ ( $\mbox{\ensuremath{\mbox{\ensuremath{\mbox{\sc d}}}}$	100	SJS4/1
-	Large – for pipes larger than 300mm dia. ♥ (€	100	SJS5/1
_	Root Rand		
	Rest Bend Single Socket ∜ ( €	100	SDBR1
		.00	333111
	Rest Bend		
	Plain Ended ♥ ( €	100	SBR1
	*		

	Description	Nom Dia	Cat
Supors	Sleve HouseDrain – continue	mm	No
Supers	Rest Bend	<del>J</del> u	
	Telescopic <b>(</b> €	100	SBRT1
H	Rat Barrier <b>( €</b>	100	RAT/FM
	Taper Pipe Single Socket 100mm to 150mm ♥ (€	100	SDT2/1
0	Socket Adaptor for connection to traditional pipes and fittings $\mbox{\ensuremath{\heartsuit}}$ ( $\ensuremath{\ens$	100	SA1/1
	Traps, Gullies		
	Low Back P-Trap Single Socketed ♥ ( €	100	SDG1/1
V	Low Back P-Trap Plain Ended ♥ C €	100	SG1/1
	Inlet Gully Supplied as illustration $\heartsuit$ ( $\in$ As above + horizontal back inlet $\heartsuit$ ( $\in$	100 100	SDG3/1 SDG3/2
	Spare Accessories Grid and vertical back inlet insert only Hopper c/w grid Cover Plate Metal Grid Dip Tube Trap Paved Area Gully Supplied complete with grid and frame   C  C	100	SDG10 SDG2/6 SDG2/4 SDG2/5 SDC6
	As above + horizontal back inlet ♥ ( €  Top Assembly c/w grid, frame and cover plate	100	SDG2/3 SDG2/2 SDG2/4
	Metal Grid  Square Gully  Supplied complete with grid ♥ ( €	100	SDG2/5 SG2/1
	Spare polypropylene grid 150mm x 150mm	150	SG2/5
	Square Gully, with back inlet Supplied complete with grid ♥ € € Spare polypropylene grid 150mm x 150mm Suitable alternative grids Grid, alloy 150mm x 150mm Hinged grating + frame 150mm x 150mm Sealing plate + frame, alloy 150mm x 150mm	100 150 150 150 150 150	SG2/2 SG2/5 IG2 IH2 IS2

# SuperSleve HouseDrain

SuperSleve HouseDrain – continued  Square Raising Piece for SG2/1, SH1, SH2	
Square Raising Piece for SG2/1, SH1, SH2	
V V	RRS2/1
V	RRS2/2
	RRS2/3
300mm x 150mm x 150mm ♥ 150 F	RRS2/4
Access Gully c/w grid ♥ C €	SG3/1
	SG4/1
Note: Can accept 110mm round or 100x100mm square	04.71
rainwater pipes.	
+ spares	
Grid 120mm x 120mm	IG1P
Bridge 120mm x 170mm 120	QB1
Sealing Plate 120mm x 120mm	IS1
Frame-Alloy 120mm x 120mm	IH1
Access Raising Piece for SG3/1 + SH3/1	
v v	SRP5
· · · · · · · · · · · · · · · · · · ·	SRP6
	SRP7
300mm ♥	SRP8
Hopper, Rectangular - ♥ ( €	SH3/1
+ Spares	J. 10/ I
Grid	IG1P
Bridge	QB1
Sealing Plate + Frame	IS1
Hinged Grating + Frame	IH1
	0114
Hopper, Square ♥ ( € 100	SH1 IG2
Grid, alloy 150mm x 150mm Sealing Plate, alloy 150mm x 150mm 150	IG2 IS2
Sealing Plate, alloy 150mm x 150mm	102
Hopper, Square, with 100mm horizontal inlet ♥ ( € 100	SH2
Grid, alloy 150mm x 150mm	IG2
Sealing Plate, alloy 150mm x 150mm	IS2
Southly Flato, and Foother Foother	102
Rodding Points	DD04 /4
3	RPS1/1
Sealed c/w coupling Polypropylene. Hinged square top secures the air-tight	
sealing ring. Complete with fitted coupling to connect directly to SuperSleve	
Rodding Point 100 S	SRP1/1
Plain Ended	
	oppo ()
Rodding Point 100 S With airtight seal, Plain Ended	SRP2/1
vviui anugin scal, Fidiii Eliucu	
Drain Connectors	
Fit Clay and Plastic Systems	
Internal Drain Connector – To Waste	
	S/S460
100mm to 50mm Waste 100 S	S/S462
Internal Blanking Plug	
Internal Blanking Plug 100mm 100	S/S89
100mm 100mm	0,003
Internal Drain Connector	
	/4A06B
Tooliiii to riounu namwater	TAUUD
Internal Drain Connector	
100mm to Square Rainwater 100 S.	/4A06C
Internal Drain Connector	
	S/S464
	S/S464

	Description	Nom Dia mm	Cat No
Super	Sleve HouseDrain – continue		110
Ouperc	Adaptors Continue	Ju	
	Adaptor	100	SA3/1
	Coupling to HepSleve	100	0/10/1
	3		
	Adoptoro to 110 page a call pince		
	Adaptors to 110mm ø soil pipes SuperSleve	110	SA9
-	HepSleve	110	VA9
	Rainwater Adaptor	400	0.1.1
( a 114)	to round or square rainwater pipes up to 76mm	100	SA11
	Sliding Coupling	100	SC4/1
	Adaptor to Cast Iron Pipes made to BS 437	100	SA14/1
	Double Spigot Adaptor		
1000	110mm OsmaDrain/100mm SuperSleve	110	SA15/1
	Stopper	100	SS1/1
0			
	Testing Change		
	Testing Stopper with integral nipple	100	SS2/1
	with integral hippie	100	332/1
	Access Fittings		
	Access Pipe ♥ ( €	100	SPA1
	45° Access Bend ♥ C €	100	SBA1
	Single Oblique Access Junction		
	Left-hand ♥ C €	100	SJA1L
	Access Junction		
	Right-hand ♥ ( €	100	SJA1R
	Access Raising Piece	Height	
	75mm ♥	75	SRP1
	150mm ♥	150	SRP2
	225mm ♥	225	SRP3
	300mm ♥	300	SRP4
	Alland id 9 France		
0	Alloy Lid & Frame Pedestrian Areas Only 300mm x 150mm		IS0
2	i caconiantereas only southin a 150000		130

## SuperSleve 150mm

SuperSleve products are suitable for foul and surface water drainage in adoptable, industrial, commercial & highway drainage applications.

	Description	Nom Dia mm	Cat No
SuperS	leve 150		110
	Pipe         Plain Ended − 150mm x 1.75m ♥ ( €         Rocker         0.3m ♥ ( €         0.6m ♥ ( €         1.0m ♥ ( €	150 150 150 150	SP2 SP030/2 SP060/2 SP100/2
	Fittings Coupling (polypropylene) With EPDM sealing rings ♥ ( € With Nitrile sealing rings ♥ ( €	150 150	SC1/2 SC3/2
	90° Bend ∜ <b>( €</b>	150	SB1/2
	45° Bend ♥ <b>( €</b>	150	SB2/2
	30° Bend ♥ <b>( €</b>	150	SB3/2
	15° Bend ♥ <b>( €</b>	150	SB4/2
	45° Oblique Junction 150mm x 100mm ♥ <b>C €</b> 150mm x 150mm ♥ <b>C €</b>	150 150	SJ1/2 SJ1/3
	90° Curved Square Junction 150mm x 100mm ♥ C € 150mm x 150mm ♥ C €	150 150	SJ2/2 SJ2/3
	Oblique Saddle Small – for pipes up to and including 300mm dia. $\$ C $\$ Large – for pipes larger than 300mm dia. $\$ C $\$	150 150	SJS1/2 SJS2/2
	Square Saddle Small – for pipes up to and including 300mm dia. $\$ ( $\$ Large – for pipes larger than 300mm dia. $\$ ( $\$	150 150	SJS4/2 SJS5/2
	Taper Pipe 100mm to 150mm ♥ <b>( €</b> 150mm to 225mm ♥ <b>( €</b>	100 150	ST2/1 ST3/2
	Rest Bend ♥ C €	150	SBR2
	Telescopic Rest Bend €	150	SBRT2
0	Socket Adaptor – for connection to traditional pipes and fittings $\   \heartsuit $ ( $\mbox{\  \  }$	150	SA1/2
V	Low-back P-trap ♥ (€	150	SG1/2

	Description	Nom Dia mm	Cat No
SuperS	Sleve 150 – continued		
William !	Hopper ♥ C €	150	SH3/2
	integral inlet complete with plastic grid + Spares Grid		IG1P
	Bridge		QB2
	Sings		452
	Rodding Point	150	SRP1/2
0	oval (aluminium)		
	Access Fittings	150	SPA2
	Access Pipe ♥ ( €	150	SPAZ
	45° Access Bend ♥ (€	150	SBA2
	AES Cingle Oblique Access Junction		
	45° Single Oblique Access Junction, left hand		
	150mm x 100mm ♥ <b>( €</b>	150	SJA2L
	150mm x 150mm ♥ <b>( €</b>	150	SJA3L
	45° Single Oblique Access Junction,		
	right hand		
	150mm x 100mm ♥ <b>( €</b>	150	SJA2R
	150mm x 150mm ♥ <b>( €</b>	150	SJA3R
	Access Raising Piece	Height	
	75mm ♥	75	SRP1
	150mm ♥	150	SRP2
	225mm ♥ 300mm ♥	225 300	SRP3 SRP4
	•		
	Alloy Lid & Frame		100
	Pedestrian Areas Only 300mm x 150mm		IS0
	Adaptors Rainwater Adaptor		
	to round or square rainwater pipes up to 100 x 100mm	150	SA21
	Adaptor Coupling	150	0.40/0
	to HepSleve	150	SA3/2
	Adaptors to 160mm ø PVCu soil pipes		
	SuperSleve HepSleve	160 160	SA10 VA10
	Hebole4e	100	VATU
	Double Spigot Adaptor		
	160mm OsmaDrain/150mm SuperSleve	150	SA15/2
	Sliding Coupling	150	SC4/2
	and a street of	. 30	
	Adaptor to Cast Iron	150	SA14/2
11	Pipes made to BS 437	160	
	Stopper	150	SS1/2
0			
	Tacting Stopper		
	Testing Stopper with integral nipple	150	SS2/2
	Testing Stopper with integral nipple	150	SS2/2

## SuperSleve 225mm

	Description	Nom Dia mm	Cat No
SuperSl	leve 225		NO
	Pipe Full Length Pipe – complete with a fitted coupling with EPDM sealing rings 225mm x 1.75m ♥ ( €	225	SP175/4S
	Pipe - Plain Ended – for use with separate couplings with nitrile sealing rings 225 mm x 1.75 m ♥ C €	225	SP175/4
	Rocker 0.3m ♥ C € 0.6m ♥ C €	225 225 225	SP030/5 SP060/5 SP100/5
	Short Length 0.3m ♥ C € 0.6m ♥ C € 1.0m ♥ C €	225 225 225	SP030/5S SP060/5S SP100/5S
	Fittings  Spare Couplings (polypropylene)  with EPDM sealing rings ♥ ( €  with nitrile sealing rings ♥ ( €	225 225	SC1/5 SC3/5
	90° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	225 225	SB1/5S SB1/5
	45° Bend Single Socket ♥ C € Plain Ended ♥ * C €	225 225	SB2/5S SB2/5
	30° Bend Single Socket ∜ ( € Plain Ended ∜ * ( €	225 225	SB3/5S SB3/5
3	15° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	225 225	SB4/5S SB4/5
	45° Oblique Junction Coupling on Barrel 225mm x 100mm ♥ ( € Plain Ended 225mm x 100mm ♥ * ( € Coupling on Barrel 225mm x 150mm ♥ * ( € Plain Ended 225mm x 150mm ♥ * ( € Coupling on Barrel & Arm 225mm x 225mm ♥ ( € Plain Ended Barrel 225mm x 225mm ♥ * ( €	225 225 225 225 225 225 225	SJ1/7S SJ1/7 SJ1/8S SJ1/8 SJ1/9D SJ1/9
	90° Curved Square Junction Coupling on Barrel 225mm x 100mm ♥ ( € Plain Ended 225mm x 100mm ♥ * ( € Coupling on Barrel 225mm x 150mm ♥ ( € Plain Ended 225mm x 150mm ♥ * ( € Coupling on Barrel & Arm 225mm x 225mm ♥ ( €	225 225 225 225 225 225 225	SJ3/7S SJ3/7 SJ3/8S SJ3/8 SJ2/9D SJ2/9
b	Oblique Saddle ♥ ( €	225	SJS2/5
	Square Saddle ♥ (€	225	SJS5/5
(3)	Rest Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	225 225	SBR5S SBR5
	Taper Pipe ♥ <b>( €</b> 150mm x 225mm	225	ST3/2

	Description	Nom Dia mm	Cat No
SuperS	leve 225 – continued		
	Clay Stopper ♥ ( €	225	SS3/4
0	Socket Adaptor for connection to traditional pipes & fittings $\mbox{\ensuremath{\heartsuit}}$ ( $\ensuremath{\ensur$	225	SA1/5

<sup>\*</sup> Plain ended bends and junctions are for use with separate couplings fitted with Nitrile sealing rings for increased resistance to hydrocarbons. Contact the Technical Advisory Service for further details.

# SuperSleve 300mm

	Description	Nom Dia mm	Cat No
SuperS	leve 300		NO
<b>4</b>	Pipe Full Length Pipe – complete with a fitted coupling with EPDM sealing rings 300mm x 2.0m ♥ (€	300	SP7S
	Pipe - Plain Ended – for use with separate couplings with nitrile sealing rings 300mm x 2.0m ♥ C €	300	SP7
	Rocker 0.3m ♥ C € 0.6m ♥ C € 1.0m ♥ C €	300 300 300	SP030/7 SP060/7 SP100/7
	Short Length 0.3m ♥ ( € 0.6m ♥ ( € 1.0m ♥ ( €	300 300 300	SP030/7S SP060/7S SP100/7S
	Fittings  Spare Couplings (polypropylene)  with EPDM sealing rings ♥ ( €  with nitrile sealing rings ♥ ( €	300 300	SC1/7 SC3/7
	90° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	300 300	SB1/7S SB1/7
	45° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	300 300	SB2/7S SB2/7
	30° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	300 300	SB3/7S SB3/7
3	15° Bend Single Socket ♥ ( € Plain Ended ♥ * ( €	300 300	SB4/7S SB4/7
	45° Oblique Junction Coupling on Barrel 300mm x 100mm ♥ ( € Plain Ended 300mm x 100mm ♥ * ( € Coupling on Barrel 300mm x 150mm ♥ ( € Plain Ended 300mm x 150mm ♥ * ( € Coupling on Barrel & Arm 300mm x 225mm ♥ ( € Plain Ended 300mm x 225mm ♥ * ( € Coupling on Barrel & Arm 300mm x 300mm ♥ ( € Plain Ended 300mm x 300mm ♥ * ( €	300 300 300 300 300 300 300 300	\$J1/14\$ \$J1/14 \$J1/15\$ \$J1/15 \$J1/17D \$J1/17 \$J1/19D \$J1/19
	90° Square Junction Coupling on Barrel 300mm x 100mm ♥ ( € Plain Ended 300mm x 100mm ♥ * ( € Coupling on Barrel 300mm x 150mm ♥ ( € Plain Ended 300mm x 150mm ♥ * ( € Coupling on Barrel & Arm 300mm x 225mm ♥ ( € Plain Ended 300mm x 225mm ♥ * ( € Coupling on Barrel & Arm 300mm x 300mm ♥ ( € Plain Ended 300mm x 300mm ♥ * ( €	300 300 300 300 300 300 300 300	\$J3/14\$ \$J3/14 \$J3/15\$ \$J3/15 \$J3/17D \$J3/17 \$J3/19D \$J3/19
	Oblique Saddle $\colongledge$ ( $\colongledge$	300	SJS2/7
	Square Saddle ♥ (€	300	SJS5/7
	Rest Bend ♥ ( € Single Socket ♥ ( € Plain Ended ♥ * ( €	300 300	SBR7S SBR7

	Description	Nom Dia mm	Cat No
SuperS	Sleve 300 – continued		
	Taper Pipe to 225mm SuperSleve 225mm x 300mm ♥ C €	300	ST4/3
	Clay Stopper ∜ <b>( €</b>	300	SS3/7
0	Socket Adaptor for connection to traditional pipes & fittings $\mbox{\ensuremath{\heartsuit}}$ ( $\ensuremath{\ensur$	300	SA1/7

<sup>\*</sup> Plain ended bends and junctions are for use with separate couplings fitted with Nitrile sealing rings for increased resistance to hydrocarbons. Contact the Technical Advisory Service for further details.

## Gullies

	Description	Nom Dia mm	Cat No
Gullies	Yard Gullies Yard Gully Supplied complete with domestic duty grating and frame (up to 1 tonne)		
	Internal         Internal         Back Inlet         Outlet           dia         depth         dia         dia           225mm         585mm         -         100mm         ♥ € €           225mm         585mm         100mm         ▼ € €           225mm         585mm         -         150mm         ♥ € €           225mm         585mm         150mm         ▼ € €	100 100 150 150	RGP5 RGP5B RGP7 RGP7B
	With medium duty grating and frame (up to 5 tonnes)         225mm       585mm       -       100mm       ♥ C €         225mm       585mm       100mm       100mm       ♥ C €         225mm       585mm       -       150mm       ♥ C €         225mm       585mm       150mm       ♥ C €	100 100 150 150	RGP6 RGP6B RGP8 RGP8B
	Gully Extras Raising Piece 300mm Plain Raising Piece ♥ ( € 600mm Plain Raising Piece ♥ ( €	225 225	SP030/5 SP060/5
	Spare Couplings EPDM $\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	225	SC1/5
D	Combined Filter and Silt Bucket	205	IBP3
	Yard Gully  Round with rodding eye and stopper Internal Internal Back Inlet Outlet dia depth dia dia 225mm 585mm − 100 ♥ € € 225mm 585mm − 150 ♥ € €	100 150	RGP1 RGP2
	Grating and Frame Light Duty Grating and Frame (up to 1 tonne) Medium Duty Grating and Frame (up to 5 tonne)	:	RGP3 RGP4
	Spare Stopper	100	RSG2
	Road Gully	100 150 150 150	RGR1 RGR2 RGR3 RGR4
	Spare Stopper	100	RSG1
	Polyethylene Gully Trapped 150mm SuperSleve outlet Internal Internal dia depth 375mm 750mm		MGP2/2

	Description	Nom Dia mm	Cat No
Gullies	<ul><li>continued</li></ul>		
	Clay Traps Universal Grease Trap 550mm deep ♥ C € Supplied complete including filter basket, spatula, cover and frame and 100/110 conversion adaptors  Internal Internal	100/110	RGU1
	length width 600mm 450mm  Spare Cover and Frame		IGUC1
	Spare Filter Basket and Spatula		RGUFB

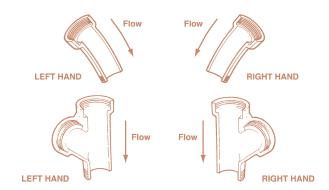
# Metalwork • HepGuard

	Description	Nom Size	
Metalw	ork	mm	No
Titotaiti	Pedestrian Areas Only		
	•		
XIII	Gully Grid, (Square) Alloy	120	IG1
all to	Alloy	150	IG2
	Alloy	225	IG3
	Alloy	300	IG4
	Cast Iron	120 150	IG1C IG2C
	Cast Iron	225	IG3C
	Cast Iron	300	IG4C
	Galvanised	150	IG2G
	Galvanised	225	IG3G
	Alloy only Gully Grid (Rectangular)		
	Alloy	265 x	IG5
	For use with: Hopper	120	SH3/1
	Gully		SG3/1
	Gully		SG4/1
	Cully Crid (Pound)		
(10.00)	Gully Grid, (Round) Gully size mm		
	100 Alloy	140	IG6
	50 Alloy	197	IG7
	225 Alloy 100 Cast Iron	284 140	IG8 IG6C
	150 Cast Iron	197	IG7C
	225 Cast Iron	284	IG8C
	Dish Grid, (Round)		
((2.5))	Dish size mm		
	300 Alloy	178	IG11
	300 Cast Iron	178	IG11C
1	Hinged Gratings and Frames (Square)		
	Alloy	120	IH1
	Alloy Alloy	150 230	IH2 IH3
	Alloy	316	IH4
	Cast Iron	150	IH2C
	Cast Iron	230	IH3C
	Cast Iron	316	IH4C
Winds	Hinged Gratings & Frames (Round)		
	Gully size mm	193	IH6
	150 Alloy 225 Cast Iron	265	IH7C
	300 Cast Iron	368	IH8C
	Cover Plate & Frame, (Square)		
( . //	Alloy	120	IS1
	Alloy Alloy	150 225	IS2 IS3
	Cast Iron	120	IS1C
	Cast Iron	150	IS2C
	Cast Iron	225	IS3C
	Cover Plate & Frame, (Round)		
(300)	Gully size mm		
	100 Alloy	140	IS5
	150 Alloy	197	IS6
	225 Alloy	273	IS7
	150 Cast Iron 225 Cast Iron	197 273	IS6C IS7C
0	Access Cover Plate & Frame	300 x	IS0
	Hate CHAINE	150	100

	Description	Nom Size mm	Cat No
HepGu	ıard		
	Surface Box (polypropylene) Plain Water Gas	150 150 150	GSB1 GSB2 GSB3

## SuperSleve Channels 100-300mm

A range of plain ended or socketed channels for use in foul and surface water manholes; also as a dry weather channel in combined sewers.



Direction of flow is from the socket towards the spigot.

Important Note: Handing of channel and access fittings is as viewed against direction of flow.

	Description	Nom Dia	
Curacu	Nove Channels	mm	No
Supers	Sleve Channels		
	Channel Pipe – Plain Ended		
	Pipe	100	0004 (4
	0.3m	100	CPP1/1
	0.6m	100	CPP2/1
	1.0m	100	CPP3/1
	0.3m	150	CPP1/2
	0.6m	150	CPP2/2
	1.0m	150	CPP3/2
	1.0m	225	CPP3/3
	1.0m	300	CPP3/4
	Pipe – Large Diameter		
	1.0m	400	CPP3/5
	1.0m	450	CPP3/6
	Observal Fillings Plain Fordard		
_	Channel Fittings – Plain Ended		
	Enlarger/Reducer 100mm x 150mm	400	OTD4 /4
		100	CTP1/1
	225mm x 300mm	225	VCTP4/3
	300mm x 400mm	300	CTP1/4
	90° Bend	100	CBP1/1
	Plain ended channel bends	150	CBP1/2
	can be used left or right handed	225	VCB1/3
		300	VCB1/4
A .	45° Bend	100	CBP2/1
		150	CBP2/2
		225	VCB2/3
		300	VCB2/4
A	30° Bend	100	CBP3/1
	55 25.14	150	CBP3/2
		225	VCB3/3
		300	VCB3/4
	15° Bend	100	CBP4/1
	10 Dend	150	CBP4/1 CBP4/2
		225	VCB4/3
		300	VCB4/4
	Oblique Junction – left-hand (illustrated)		
	100mm x 100mm	100	CJP1/1L
	150mm x 100mm	150	CJP1/2L
_	150mm x 150mm	150	CJP1/3L
	Oblique Junction - right-hand		
	100mm x 100mm	100	CJP1/1R
	150mm x 100mm	150	CJP1/2R
	150mm x 150mm	150	CJP1/3R

	Description	Nom Dia	Cat
		mm	No
SuperS	leve Channels - continued		
	Curved Square Junction – left-hand (illustrated)		
	100mm x 100mm	100	CJP2/1L
	150mm x 100mm	150	CJP2/2L
	150mm x 150mm	150	CJP2/3L
	Curved Square Junction – right-hand 100mm x 100mm	100	CJP2/1R
	150mm x 100mm	150	CJP2/2R
	150mm x 150mm	150	CJP2/3R
	Channel Pipe – Socketed		
4	Pipe		
	0.3m	100	CP1/1
	0.3m	150	CP1/2
	0.3m 0.3m	225 300	CP1/3 CP1/4
	0.6m	100	CP2/1
	0.6m	150	CP2/2
	0.6m	225	CP2/3
	0.6m	300	CP2/4
	1.0m 1.0m	100 150	CP3/1 CP3/2
	1.0m	225	CP3/3
	1.0m	300	CP3/4
	Observat Fillium Co. 1 1 1		
4	Channel Fittings – Socketed Enlarger		
V	100mm x 150mm	100	CT2/1
10	150mm x 225mm	150	CT2/2
_	225mm x 300mm	225	CT2/3
	Doducer		
	Reducer 150mm x 100mm	150	CT1/1
	225mm x 150mm	225	CT1/2
	300mm x 225mm	300	CT1/3
	Ohannal Danda Caskatad		
	Channel Bends – Socketed 90° Bend		
	medium left-hand right-hand		
	LH	100	CB1/1L
	RH LH	100 150	CB1/1R
	LH RH	150 150	CB1/2L CB1/2R
	LH	225	CB1/2I
	RH	225	CB1/3R
	LH	300	CB1/4L
	RH	300	CB1/4R
4	45° Bend		
	medium left-hand right-hand		
-	LH	100	CB2/1L
-	RH LH	100 150	CB2/1R CB2/2L
	RH	150	CB2/2L CB2/2R
	LH	225	CB2/3L
	RH	225	CB2/3R
	LH	300	CB2/4L
	RH	300	CB2/4R
<b>A</b> .	30° Bend		
	medium left-hand right-hand		
1	LH	100	CB3/1L
	RH	100	CB3/1R
	LH RH	150 150	CB3/2L CB3/2R
	LH	225	CB3/2R CB3/3L
	RH	225	CB3/3R
	LH	300	CB3/4L
	RH	300	CB3/4R
4	15° Bend		
	15° Bend medium left-hand right-hand		
	medium left-hand right-hand LH	100	CB4/1L
	medium left-hand right-hand LH RH	100	CB4/1R
	medium left-hand right-hand LH RH LH	100 150	CB4/1R CB4/2L
	medium left-hand right-hand LH RH LH RH	100 150 150	CB4/1R CB4/2L CB4/2R
	medium left-hand right-hand LH RH LH	100 150	CB4/1R CB4/2L
	medium left-hand right-hand LH RH LH RH LH	100 150 150 225	CB4/1R CB4/2L CB4/2R CB4/3L

# SuperSleve Channels 100-300mm

	Description	Nom Dia mm	Cat No		Description	Nom Dia mm	Cat No
SuperS	Sleve Channels – continued			SuperS	Sleve Channels – continued		
	Enlarger				45° Breeches Oblique Junction		
	left-hand right-hand				100mm x 100mm	100	CJ5/1
	LH 100mm x 150mm	100	CBT2/1L	Maria Maria	150mm x 100mm	150	CJ5/2
	LH 100mm x 150mm	100	CBT2/1R		150mm x 150mm	150	CJ5/3
	LH 150mm x 225mm	150	CBT2/2L		225mm x 150mm	225	CJ5/5
	RH 150mm x 225mm	150	CBT2/2R		225mm x 225mm	225	CJ5/6
	LH 225mm x 300mm	225	CBT2/3L		300mm x 225mm	300	CJ5/9
	RH 225mm x 300mm	225	CBT2/3R		300mm x 300mm	300	CJ5/10
<b>.</b> .	Reducer				90° Breeches Square Junction		
	left-hand right-hand			2	100mm x 100mm	100	CJ6/1
	LH 225mm x 150mm	225	CBT1/2L		150mm x 100mm	150	CJ6/2
	RH 225mm x 150mm	225	CBT1/2R		150mm x 150mm	150	CJ6/3
					225mm x 150mm	225	CJ6/5
	Channel Junctions – Socketed				225mm x 225mm	225	CJ6/6
AA	90° LH Square Junction				300mm x 300mm	300	CJ6/10
	left-hand right-hand						
	LH 100mm x 100mm	100	CJ2/1L		Branch Channel Bends – Socketed		
	RH 100mm x 100mm	100	CJ2/1R		Half-section		
	LH 150mm x 100mm	150	CJ2/2L	77	10° left-hand		
	RH 150mm x 100mm	150	CJ2/2R	1L 1R	10° right-hand		
	LH 150mm x 150mm	150	CJ2/3L	7 2	LH	100	CX1/1L
	RH 150mm x 150mm	150	CJ2/3R		RH	100	CX1/1R
	LH 225mm x 100mm	225	CJ2/4L		LH	150	CX2/1L
	RH 225mm x 100mm	225	CJ2/4R		RH	150	CX2/1R
	LH 225mm x 150mm	225	CJ2/5L			.00	O/12/111
	RH 225mm x 150mm	225	CJ2/5R	A A	30° left-hand		
	LH 225mm x 225mm	225	CJ2/6L		30° right-hand		
	RH 225mm x 225mm	225	CJ2/6R	2L 2R	LH	100	CX1/2L
	LH 300mm x 150mm	300	CJ2/8L		RH	100	CX1/2R
	RH 300mm x 150mm	300	CJ2/8R		LH	150	CX2/2L
	LH 300mm x 225mm	300	CJ2/9L		RH	150	CX2/2R
	RH 300mm x 225mm	300	CJ2/9R		TWI	130	UNZ/ZII
	LH 300mm x 300mm	300	CJ2/10L		50° left-hand		
	RH 300mm x 300mm	300	CJ2/10R		50° right-hand		
	THE SOUTHIN & SOUTHIN	300	002/1011	3L 3R	LH	100	CX1/3L
A 14	45° Oblique Junction			4 1/	RH	100	CX1/3R
	left-hand				LH	150	CX2/3L
	right-hand				RH	150	CX2/3R
	LH 100mm x 100mm	100	CJ1/1L		nii	150	UAZ/3N
	RH 100mm x 100mm	100	CJ1/1E		70° left-hand		
	LH 150mm x 100mm	150	CJ1/2L		70° right-hand		
	RH 150mm x 100mm	150	CJ1/2R	al 4n	LH	100	CX1/4L
	LH 150mm x 150mm	150	CJ1/3L	, ,	RH	100	CX1/4R
	RH 150mm x 150mm	150	CJ1/3R		LH	150	CX2/4L
	LH 225mm x 100mm	225	CJ1/4L		RH	150	CX2/4L
	BH 225mm x 100mm	225	CJ1/4R		пп	130	UAZ/4N
					90° left-hand		
	LH 225mm x 150mm RH 225mm x 150mm	225 225	CJ1/5L CJ1/5R	5L 5R			
					90° right-hand LH	100	CX1/5L
	LH 225mm x 225mm RH 225mm x 225mm	225 225	CJ1/6L CJ1/6R		LH RH	100 100	CX1/5L CX1/5R
	LH 300mm x 150mm	300	CJ1/8L		nn LH	150	CX1/5h CX2/5L
	RH 300mm x 150mm	300	CJ1/8R		ch RH	150	CX2/5L CX2/5R
	LH 300mm x 225mm	300	CJ1/9L		THE STATE OF THE S	130	UAZ/JN
	RH 300mm x 225mm	300	CJ1/9L CJ1/9R		115° left-hand		
	LH 300mm x 300mm	300	CJ1/311	6L 6R	115° right-hand		
	RH 300mm x 300mm	300	CJ1/10E		LH	100	CX1/6L
	nii 300iiiii x 300iiiii	300	03 1/ TUN				
s.4	45° Double Oblique Junction				RH LH	100	CX1/6R
No. of Street	100mm x 100mm	100	CJ3/1		ch RH	150 150	CX2/6L CX2/6R
	150mm x 100mm	150	CJ3/1		101	150	UNZ/UN
	150mm x 150mm	150	CJ3/2		1/0° left-hand		
	225mm x 150mm	225	CJ3/3 CJ3/5	7L 7R	140° left-hand 140° right-hand		
					-	100	CV1/7I
	225mm x 225mm 300mm x 150mm	225	CJ3/6 CJ3/8		LH DU	100	CX1/7L
		300			RH	100	CX1/7R
	300mm x 225mm	300	CJ3/9		LH	150	CX2/7L
	90° Double Square Junction				RH	150	CX2/7R
		400	0.14/4		1CF0 loft hand		
-	•		CJ4/1	8L 8R	165° left-hand		
21/4	100mm x 100mm	100	0.14.6				
**	100mm x 100mm 150mm x 100mm	150	CJ4/2		165° right-hand	,,	011115
***	100mm x 100mm 150mm x 100mm 150mm x 150mm	150 150	CJ4/3		LH	100	CX1/8L
**	100mm x 100mm 150mm x 100mm 150mm x 150mm 225mm x 150mm	150 150 225	CJ4/3 CJ4/5		LH RH	100	CX1/8R
**	100mm x 100mm 150mm x 100mm 150mm x 150mm	150 150	CJ4/3		LH		

# SuperSleve Channels 100-300mm

	Description	Nom Dia mm	Cat No
SuperS	leve Channels - continued		
AL AR	Branch Channel Bends – Socketed Three-quarter-section 10° left-hand 10° right-hand LH RH LH	100 100 150	CX1AL CX1AR CX2AL
al BH	RH  30° left-hand 30° right-hand LH RH LH RH	100 100 150 150	CX2AR  CX1BL  CX1BR  CX2BL  CX2BR
CL CR	50° left-hand 50° right-hand LH RH LH RH	100 100 150 150	CX1CL CX1CR CX2CL CX2CR
DL DR	70° left-hand 70° right-hand LH RH LH RH	100 100 150 150	CX1DL CX1DR CX2DL CX2DR
ELER	90° left-hand 90° right-hand LH RH LH RH	100 100 150 150	CX1EL CX1ER CX2EL CX2ER
FR. FR	115° left-hand 115° right-hand LH RH LH RH	100 100 150 150	CX1FL CX1FR CX2FL CX2FR
GL GR	140° left-hand 140° right-hand LH RH LH RH	100 100 150 150	CX1GL CX1GR CX2GL CX2GR
HR	165° left-hand 165° right-hand LH RH LH RH	100 100 150 150	CX1HL CX1HR CX2HL CX2HR

## HepLine

HepLine products are used for surface water collection from highways, playing fields, sports grounds, forestry and waste tips and for general land drainage. They are also used for septic tank effluent dispersal in housing developments.

	Description	Nom Dia mm	Cat No
HepLin	e		
	Pipe Perforated – Plain Ended 100mm x 1.6m Perforated ♥ ( € 150mm x 1.75m Perforated ♥ ( €	100 150	LP1 LP2
	Perforated — complete with a fitted coupling with EPDM sealing rings 225mm x 1.75m Perforated ∜ € € 300mm x 2.00m Perforated ∜ € € Important Note: Stoppers and fittings for HepLine subsoil drainage systems are available from the SuperSleve Range.	225 300	LP175/3 LP200/4

## Unjointed

Hepworth Clay unjointed pipes are a range of traditional spigot and socket pipes for cement mortar jointing. They are particularly suitable for refurbishment and maintenance work where sections of drain need to be replaced or relaid.

	Description	Nom Dia mm	Cat No				
Unjointed							
	Pipe						
	Standard Pipe Length						
	1.0m ♥	100	RP1				
	1.0m ♥ 1.0m ♥	150 225	RP100/2 RP100/3				
	1.0m ♥	300	RP100/3				
	4	000	1 100/ 1				
	Interceptors						
	Interceptor						
	With fall between inlet and outlet c/w stopper	100	DI4 /4				
	♥ † ♥ †	100 150	RI1/1 RI1/2				
	†	225	RI1/2				
	1	LLU	11170				
	Interceptor c/w stopper						
	♥ †	100	RI2/1				
	♥ †	150	RI2/2				
	Interceptor						
	Reverse Action c/w stopper	400	DIO /4				
	♥ † ♥ †	100 150	RI3/1 RI3/2				
	<b>∜</b> I	100	NI3/Z				
	† Due to the manufacturing process size tolerances and a can vary.	ppearance	on this product				
	Raising Piece						
	Square Raising Piece						
	Height	150	DDC0/4				
	75mm ♥ 150mm ♥	150 150	RRS2/1 RRS2/2				
	225mm ♥	150	RRS2/3				
	300mm ♥	150	RRS2/4				
	75mm ♥	225	RRS3/1				
	150mm ♥	225	RRS3/2				
	Dish Tops						
	₩ William India	100	RDR2				
	☆	150	RDR3				
	v						

## Accessories

	Description	Nom Dia mm	Cat No				
Accessories							
Want -	Pipe Cutter - Lever Cuts 100mm SuperSleve Cuts 100 and 150mm SuperSleve	100 150	MPC1 MPC2				
M	Pipe Trimmer - 100mm/150mm	150	MPT1				
•	Masonry Saw Blade – HepBlade – Solid Recommended for cutting 225 & 300mm ceramic pipes	300	DTB2				
9.0	Lever Locking Stoppers Pipe size mm 100 150	140 188	IL1 IL2				
6	Lubricant 1 kilo – Pack Qty 10 2.5 kilo – Pack Qty 6		SL1 SL2				
Total Control of the	High Performance Jointing Lubricant recommended for Nitrile Seals, Cold and/or Wet Weather – 1 Kilo		SL1C				

## **Universal Access Systems**

All products in the Universal Access Systems range fit SuperSleve Drainage Systems and with our Adaptors, inlets/outlets can be easily converted for use with plastic drainage systems.

	Description	Nom Dia mm	Cat No
Univers	al Access Systems		
	Access Chambers Up to 600mm deep		
	Polypropylene Mini Access Chamber 300mm diameter, Depth 600mm, 100/110mm inlets conversion adaptors supplied. Complete Unit including base unit, 2 raising pieces + cover and frame	100/110	SDAC1/1
	Polymer Cover & Frame (airtight) 345mm x 345mm square. Effective height 85mm		SDC3
9	Raising Piece, with rubber sealing ring Effective height 150mm		SDC4
	Base Unit 215mm deep with two 100/110mm flexible inlets allowing 10° of movement.	100/110	SDC5
	Conversion adaptors supplied		
	Inspection Chambers Up to 1.2m deep		
	100/110mm PPIC Polypropylene Inspection Chamber 475mm diameter, supplied with 4 inlet stoppers. 940mm deep, with five 100/110mm inlets. Conversion adaptors supplied.	100/110	SPIC1/1
	595mm deep, with five 100/110mm inlets Conversion adaptors supplied. (Cover & frame supplied separately)	100/110	SPIC2/1
	Mixed Base PPIC Polypropylene Inspection Chamber 475mm diameter supplied with 4 inlet stoppers. 1030mm deep, with 150/160 straight through main channel with 2x150/160 branches at 90° & 2x100/110 branches at 45° Conversion adaptors supplied.	100/110 150/160	SPIC1/2
	Raising Piece, 175mm high		SPIC4
$\bigcirc$	Sealing Ring for Raising Piece		SPIC5
	Base, 225mm deep, with five 100/110 inlets Conversion adaptors and 4 inlet stoppers supplied	100/110	SPIC6/1
	Mixed Base 315mm deep, with 150/160mm straight through main channel with 2x150/160 branches at 90° & 2x100/110 branches at 45° Conversion adaptors and 4 inlet stoppers supplied	100/150	SPIC6/2
	Inlet Adaptor 150mm to 100mm	150	SPIC7
	Extra Stopper 100mm	100	UGS

	Description	Nom Dia mm	Cat No
Univers	sal Access Systems – contir	nued	
	Extra Stopper 150mm	150	UYS
0	Extra Conversion Adaptor 100mm to 110mm	100	M09H
0	150mm to 160mm	150	M09J
(9)	Round Ductile Iron Cover & Plastics Frame Includes security clips for additional safety EN124 A15 35kN		SPK8
	Round Ductile Iron Cover & Plastics Frame Includes security clips for additional safety EN124 B125		SPK9
	Round Composite Cover & Plastics Frame Includes security clips for additional safety. EN124 Cover loading A15 35kN		SPK10
	Spare Security Clip for SPK8 and SPK9		SPK8+9CLIP
0	Spare frame for SPK8, SPK9 and SPK10		UCIF
	Square Ductile Iron Cover & Frame (airtight) Includes security clips for additional safety. EN124 A15 35kN		SPKS8
	Recessed Cover for optional surface finish		SPCR8
MA	Accessories Spare Screws for mini access chamber cover and frame		SKW1
	Spare screws for SPKS8		SKW3

# **Inspection Chambers**

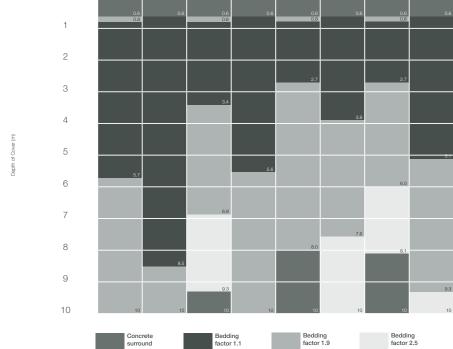
	Description	Nom Dia	Cat	Description	Nom Dia	Cat
nsnec'	tion Chambers – Wavin Ran	mm ne 450	No	Inspection Chambers - Wavin R	ange 60	No
ТОРСО	Non Man-Entry Inspection Chambers: Range 450	90 400		Non Man-Entry Inspection Chambers: Range 60		
	<ul> <li>450mm dia shaft for use with 100mm SuperSleve or 150mm SuperSleve to a maximum invert depth of 3 metres</li> </ul>			<ul> <li>600mm dia shaft for use with 150mm SuperS (via adaptor TA/2), 225mm SuperSleve (via ada TA/4) or 300mm SuperSleve (via adaptor TA/7) maximum invert depth of 3 metres</li> </ul>	ptor	
	Wavin Inspection Chamber Range 450 is approved and Kitemarked to BS EN 13598-2:2009			Wavin Inspection Chamber Range 600 is appro and Kitemarked to BS EN 13598-2:2009	ved .	
	Base Options			Base Options		
	D/S Equal Inspection Chamber Base  — 100mm or 150mm straight channel, for use with 100mm or 150mm SuperSleve. Supplied complete with a base-to-shaft sealing ring ♥	100 150	44NE310 46NE310	NOTE: Adaptors to SuperSleve (TA/2, TA/4 & TA/7, be ordered separately.  D/S Equal Inspection Chamber Base  - straight channel for use with 150mm SuperSleve (via TA/2), 225mm SuperSleve (via TA/4) or 300mm SuperSleve (via TA/7) components.  Supplied complete with a base to shaft sealing ring.	to	
	D/S Equal Inspection Chamber Base	100	44NE314			
	- 100mm straight channel with one 100mm x 45° and one 100mm x 90° left hand branch entry, for use with	100	44NE314	For use with 150mm SuperSleve (via TA/2) componer		66NE300
2	100mm SuperSleve components. Supplied complete with a base to shaft sealing ring and			For use with 225mm SuperSleve (via TA/4) componer	ts 225	69NE300
	one 100mm blank-off plug for use in unused side entry ♥			For use with 300mm SuperSleve (via TA/7) componer	ats 300	612NE30
0	D/S Equal Inspection Chamber Base  - 100mm straight channel with one 100mm x 45° and one 100mm x 90° right hand branch entry for use with 100mm SuperSleve components.  Supplied complete with a base to shaft sealing ring and one 100mm blank-off plug for use in unused side entry   ♥	100	44NE315	D/S Equal Inspection Chamber Base  - bent 90° channel for use with 150mm SuperSleve (via TA/2), 225mm SuperSleve (via TA/4) or 300mm SuperSleve (via TA/7) components.  Supplied complete with a base to shaft sealing ring.		
	D/S Equal Inspection Chamber Base			For use with 150mm SuperSleve (via TA/2) componer	nts 150	66NE31
	- 100mm straight channel with two 100mm x 45° and two 100mm x 90° left/right hand branch entries, for use	100	44NE316		its 225	69NE31
0	with 100mm SuperSleve components.  Supplied complete with a base to shaft sealing ring and three 100mm blank-off plugs for use in unused side entry ♥					612NE31
	D/S Equal Inspection Chamber Base  - 150mm straight channel with one 100mm x 45° and one 150mm x 90° left hand branch entry, for use with 100/150mm SuperSleve components.  Supplied complete with a base to shaft sealing ring and	150	46NE317	D/S Equal Inspection Chamber Base  - bent 30° channel for use with 150mm SuperSleve (via TA/4) or 300mm SuperSleve (via TA/4) or 300mm SuperSleve (via TA/7) components.  Supplied complete with a base to shaft sealing ring.		
	one 100mm blank-off plug for use in unused side entry ♥			For use with 150mm SuperSleve (via TA/2) componer	ts 150	66NE31
	D/S UnEqual Inspection Chamber Base			For use with 225mm SuperSleve (via TA/4) componer	ts 225	69NE31
	— 150mm straight channel with one 100mm x 45° and one 150mm x 90° right hand branch entry, for use with 100/150mm SuperSleve components. Supplied complete with a base to shaft sealing ring and	150	46NE318	For use with 300mm SuperSleve (via TA/7) componer  D/S Equal Inspection Chamber Base	ats 300	612NE31
	one 100mm blank-off plug for use in unused side entry ♥  D/S UnEqual Inspection Chamber Base  -150mm straight channel with two 100mm x 45° and two 150mm x 90° left/right hand entries, for use with	150	46NE319	- straight channel, with two equal 90° left/right hand branch entries, for use with 150mm SuperSleve (via 225mm SuperSleve (via TA/4) or 300mm SuperSleve TA/7) components.  Supplied complete with a base to shaft sealing ring.		
0	100/150mm SuperSleve components. Supplied complete with a base to shaft sealing ring and			For use with 150mm SuperSleve (via TA/2) componer	ts 150	66NE31
	two 100mm and one 150mm blank-off plugs for use in unused side entry 💝			For use with 225mm SuperSleve (via TA/4) componer	ts 225	69NE31
	- •			For use with 300mm SuperSleve (via TA/7) componer	ats 300	612NE31
	Shaft Options					
	P/E Inspection Chamber Shaft  - 450mm diameter x 3 metres long for use with all types of Range 450 bases ♥	450	40NE300	Shaft Options  P/E Inspection Chamber Shaft  - 600mm diameter x 3 metres long for use with all ty of Range 600 bases 🗻	pes 600	60NE00
	Restriction Access Cap  – for use with 40NE300 shaft sections, restricts access to 350mm, supplied with one 450mm sealing ring	450	40NE930	Restriction Access Cap  – for use with 60NE003 shaft sections, restricts acce 350mm, supplied with one 600mm sealing ring	ss to 600	60NE93
	Spares			Spares		
$\supset$	Chamber Base to Shaft seal  – 450mm diameter for use with 40NE300	-	450TW117	Chamber Base to Shaft seal  - 600mm diameter for use with 60NE003	-	600TW1

## **Recommended Bedding Requirements**

#### **Bedding requirements**

Table 1. Recommended bedding requirements for main traffic roads

DN	10	00	15	50	22	25	30	00
Class Number	280	400	187	267	160	200	160	240
System Type	HepLine	SuperSleve	HepLine	SuperSleve	HepLine	SuperSleve	HepLine	SuperSleve
Crushing Strength kN/m	28	40	28	40	36	45	48	72
1	0.6 0.8	0.6	0.6 0.8	0.6	0.6 0.8	0.6	0.6 0.8	0.6



#### Class D (Bedding factor 1.1)

If the sub-soil falls within types III to VI in Table E1 in Approved Document A1/2 of The Building Regulations 1985 (see below left), hand-trim the trench bottom with a spade to support the pipe along the length of its barrel, allowing for any socket recesses.

#### Class N (Bedding factor 1.1)

Where the subsoil cannot be trimmed accurately, excavate the trench to a depth of at least 50mm below the pipe barrel for Sleve pipes, and 100mm for Socketed pipes, increasing this in rocky ground to 150mm for Sleve, and 200mm for Socketed pipes (shown as a in the diagrams).

Form a bed for the pipe from as-dug, if suitable, or granular material, well compacted and covering the full trench

width. Socket holes should be taken out and the pipe barrel rested firmly on its bedding. Any granular material used should be packed by slicing with a spade.

#### Class F (Bedding factor 1.9)

Recommended for maximum installed cost savings.

# Class B (Bedding factor 2.5) and Class S (Bedding factor 2.5)

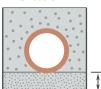
The bedding factors listed above are limited to use with clay pipes only. This provides the benefit of savings in excavation, removal from site and imported material, especially when compared with flexible pipes which require a full granular surround.

#### Class D



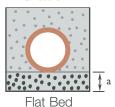
Natural Trench

#### Class N

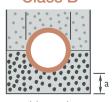


Blanket of As-Dug Material

#### Class F

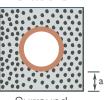


Class B



Haunch

#### Class S



Surround







## **Recommended Bedding Requirements**

#### Extract from Table E1 in Approved Document A1/2 of The Building Regulations 1985

Table 2. Sizing of Bedding Material

Nominal bore of pipe (mm)	Size (mm) Single sized	Size (mm) Graded
100-125	10	10
150-200	10 or 14	14 to 5
225-300	10,14 or 20	14 to 5 or 20 to 5
375-500	14 or 20	14 to 5 or 20 to 5
Exceeding 500	14,20 or 40	14 to 5, 20 to 5 or 40 to 5

#### Table 3. Type of Subsoil

Type of Subsoil	Conditions	Field Test Applications		
III Clay Sandy clay	Stiff	Cannot be moulded with the fingers, and requires a pick or mechanically operated spade for its removal.		
IV Clay Sandy clay	Firm	Can be moulded by substantial pressure with the fingers and can be excavated with graft or spade.		
V Sand Clayey sand/Silty sand	Loose	Can be excavated with a spade. Wooden peg 50mm square in cross-section can be easily driven.		
VI Silt Sandy clay/Silty clay	Soft	Fairly easily moulded in the fingers and readily excavated.		

#### **Health and Safety** Information

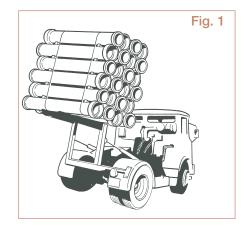
To ensure your safety; Wavin strongly recommend the use of the correct form of personal protective equipment (PPE) when cutting or handling clay pipes. This should include goggles or similar eye protection, along with sturdy gloves.

Further Health and Safety data is available in the form of a Material Safety Data Sheet for Fired Clay Products. (Available from the Hepworth Clay website) at:

www.hepworthclay.co.uk.

#### Delivery

Vitrified clay pipes can be delivered to site in pre-packed form and can be mechanically off-loaded quickly by the delivery vehicle, if pre-arranged at the time of ordering for full vehicle loads only, or by the customer's own plant such as fork lift.



Never unload pipes by dropping them, and avoid moving the pipes on site by rolling or dragging.

#### Sizing of Bedding Material

All granular material to be single sized or graded in accordance with BS 882: 1992, sintered pulverized-fuel ash to BS 3797: 1990 and air-cooled blast furnace slags to **BS 1047: 1983** are suitable.

For Bedding information on Fields and Gardens, please refer to the Hepworth Clay website at: www.hepworthclay.co.uk.

#### Storage

If stacking is necessary, this should be on level ground, and the bottom layer of pipes should be firmly wedged for stability. Socketed pipes should be kept clear of the ground by a wooden batten.



Successive rows should be turned end-for-end, with the spigots projecting beyond the sockets, and with timber wedges or battens at the ends of the bottom row to prevent movement (Fig. 2).

## Sitework & Installation Instructions

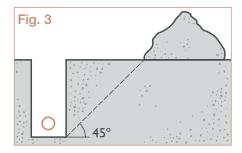
#### **Trench Preparation**

The trench should not be excavated too far in advance of pipe laying and should be backfilled as soon as possible. Trench widths should be as narrow as practicable but not less than the pipe OD plus 300mm to enable proper compaction of sidefill. Trench sides should be correctly supported.

The type of bedding and filling needed depends on:-

- Pipe type and size.
- Depth of pipe under surface.
- Width of trench.
- Type of subsoil.
- Load on surface of trench (e.g. under a road, field or garden).

Selected material and, where required, subsoil and topsoil should be put aside for backfilling at a later stage.



All excavated material should be placed 4 to 5 metres from the edge of the excavation or outside a 45° line drawn from the bottom of the trench.

If applicable, buried services such as gas, electricity and water should be uncovered with extreme care.

Trenches should be kept free from water, where possible, and the trench formation should be maintained free from disturbance due to foot traffic.

#### **Pipe Cutting**

#### **Short Length Pipes**

Pipe cutting can be minimised and installation time reduced by the use of standard short lengths. They are primarily for use at manhole positions as rocker pipes or to adjust the pipeline length at manhole or junction positions.

## Recommended Cutting Method by Pipe Diameter

SuperSleve HouseDrain
Lever action chain cutter: Code MPC1.

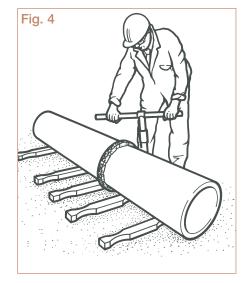
SuperSleve 100 & 150mm
Lever action chain cutter: Code MPC2.

SuperSleve 225mm & 300mm Masonry saw with DTB2.

#### **Pipe Chain Cutter**

This procedure should be followed to ensure a good quality cut with a Lever action pipe chain cutter (Fig. 4).

- Make a clear mark around the circumference of the pipe at the desired length.
- Pass the chain under the pipe, aligning the cutting wheels on the desired mark.
- Hook the chain link onto the jaw of the pipe cutter.
- Tighten the chain upon the pipe by closing the arms of the lever cutter together.
- Make a final check for correct alignment of the chain with the pipe, then continue to increase the chain tension until the pipe cuts.
- After cutting, any sharp edges may require trimming with an emery stone. For both 100mm and 150mm diameter SuperSleve use pipe trimmer – product code MPT1.



#### **Powered Masonry Saw**

A powered masonry saw can be used to cut any diameter of pipe. Generally, 100 & 150mm diameters are cut with a pipe chain cutter for speed and efficiency.

225 & 300mm diameters are generally cut by a powered masonry saw, using either a carborundum or diamond tipped blade.

Diamond tipped blades cut most efficiently, and have the longest blade life.

Carborundum blades will produce a good cut but may be slightly slower and have a shorter blade life. The quality of cut may vary according to the blade specification.

Please contact the Technical Advisory Service for further information.

When using a powered masonry saw a safe system of work should be followed:

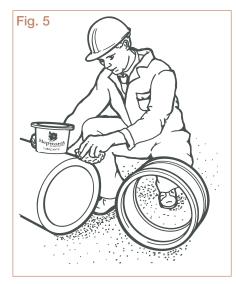
- Before any pipe cutting operation is started, read and adhere to the safety and operating instructions of both the masonry saw and the blade manufacturer.
- Check that the masonry saw is fitted with the correct specification of blade.
- Make a clear mark around the circumference of the pipe at the desired length.
- The pipe being cut should be positioned in a horizontal and stable position.
- Care should be taken to support and secure both halves of the pipe being created by the cut, to avoid the blade being nipped as the pipe separates.
- With the correct personal protective equipment in place commence the cut; the best quality cut is generally achieved by making one continuous cut.
- After cutting, any sharp edges may require trimming with an emery stone.

#### **Pipe Jointing**

#### SuperSleve/HepLine

- Check that the components are not damaged in any way that could result in an unsatisfactory joint.
- Lower the pipe on slings into the trench.
- Ensure that the inside of the coupling and the exterior of the spigot is clean.
- Spread a layer of lubricant over the pipe end to the required insertion depth and push the coupling home onto the pipe (Fig. 5).

## Sitework & Installation Instructions



• Lower the next pipe into the trench, inserting the pipe into the coupling of the pipe previously laid.

#### **Testing**

Before any backfilling takes place, Wavin advise that testing should be carried out in accordance with the recommendations set out in **BS EN 1610:2015**.

'Building Regulations Approved Document H' (clause 2.63) states that their test requirements can be met by following the recommendations set out in BS EN 1610:2015.

#### Trench Backfilling

In the first stages of backfill, selected material should be placed uniformly on both sides of the pipe by hand in layers not exceeding 100mm in thickness, each layer being compacted by hand tamping until the pipe has a minimum of 150mm compacted cover.

Further backfill should be placed in layers not exceeding 300mm, each layer being well compacted. Mechanical compaction equipment should not be used until there is a minimum of 450mm of compacted material above the crown of the pipe.

## System Performance, Applications & Standards

#### Strength

Table 4. Crushing strength and bending moment resistance

Range	Nominal Diameter (mm)	Crushing Strength (kN/m)	BS EN 295 Class No.	Bending Moment Resistance (kNm)
SuperSleve	100	40	-	2.00
	150	40	-	5.00
	225	45	200	9.00
	300	72	240	-
HepLine	100	28	-	-
	150	28	-	-
	225	36	-	-
	300	48	-	-

#### **Chemical Resistance**

Clay pipes are resistant to practically all chemical attack. When designing a new sewer system and selecting the materials, consideration should be given to the nature of the development and the possibility of discharge of harmful material.

The principal causes of chemical attack are trade effluents, which can be a wide variety of chemical types, and contamination in surrounding soils. Land in which sewers are to be laid is commonly contaminated e.g. ex gas work sites, and pipe specification is important.

Clay is an inert material and does not generally require internal or external protection. Clay is unaffected by acid conditions resulting from the presence of hydrogen sulphide in sewers and remains unaffected where the pH value is between 2 and 12.

#### Standards & Approvals

The SuperSleve HouseDrain, SuperSleve and HepLine drainage systems comply with all the relevant clauses of **BS EN 295:2013:** Vitrified clay pipes and fittings and pipe joints for drains and sewers.

The Unjointed range complies with **BS 65:1991:** Vitrified clay pipes, fittings and ducts, also flexible mechanical joints for use solely with surface water pipes and fittings.

Polypropylene couplings comply with **BS EN 295-1:2013**. The rubber sealing rings conform to **BS EN 681-1:1996**: Elastomeric seals – Material requirements for pipe joint seals used in water and drainage applications. Part 1. Vulcanised rubber.

Hepworth Clay drainage systems have been designed to meet the provisions laid out in 'Sewers for Adoption – a design and construction guide for developers'.

All systems are capable of meeting the design, layout, construction, testing and maintenance requirements in **BS EN 752:2008** Drain and sewer systems outside buildings. **BS EN 1610:2015** Construction and testing of drains and sewers.

#### **Quality Assurance**

Hepworth Clay pipes are manufactured on a site whose carbon emissions have been



independently verified to EU ETS, earning it the CICS Carbon Verified Assurance Mark.

All Wavin drainage products are manufactured under a quality management system which is approved to **BS EN ISO 9001:2008** Quality Management Systems – Requirements.

All Wavin manufacturing sites operate Environmental Management Systems which comply with the requirements of and are certified to **BS EN ISO 14001**, Certificate No. 42231.

#### **CE Marking**

CE Marking has changed

– As of the 1st July 2013,
the Construction Products
Regulation (CPR) came into



force. It is mandatory for any construction product covered by a harmonised European Norm (hEN) to have a Declaration of Performance (DoP) and an accompanying CE mark.

The product standards and ranges covered by the CPR and identified in this price list are:

#### BS EN 295-1:2013

SuperSleve 100 – 300mm diameter.

#### BS EN 295-5:2013

HepLine 100 – 300mm diameter.





Hepworth Clay drainage systems from Wavin are manufactured from natural materials to produce durable, high strength, quality products. This enables sustainable installation on site using recycled aggregates, and rigorous maintenance regimes in service. These market leading clay drainage systems are accepted within the built environment for residential, adoptable, commercial and industrial applications.

Wavin Limited **Edlington Lane** Edlington Doncaster South Yorkshire **DN12 1BY** 

**T:** 0844 856 5152 E: drainage@hepworth.co.uk www.hepworthclay.co.uk

