



CONNECT TO BETTER

TRADE PRICE LIST - 1st March 2019

OSMA Hep₂O Above Ground Systems



Pack Quantity Notice

Products which are supplied in pack multiples, but can also be ordered in singles are highlighted in a darker shade as follows:

Pack qty
5
5
5
5



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All 110/160mm soil and drain pipe is manufactured using Wavin's Recycore Technology. The pipe contains over 50% recycled material but has exactly the same performance and handling characteristics as virgin pipe.

Introduction to

OSMA

Osma Above Ground Drainage systems, form part of a comprehensive range of plastic systems to provide intelligent solutions for all building, construction and utilities projects.

Key to abbreviations

B	Black	E	Olive
N	Brown	W	White
G	Grey		

P/E – Pipe and fittings with both ends plain or with one plain end and one special end.

S/S – Pipe and fittings with one or more ring-seal or push-fit sockets, but always one plain or special end.

D/S – Fittings with ring-seal or push-fit sockets at all ends.

S/SW – Fittings with one or more ring-seal sockets but always one solvent socket.

SW/S – Fittings with one or more solvent sockets and one plain or special end.

D/SW – Fittings with solvent sockets at all ends.

Symbols

British Standards Kitemark

Identifies pipe and fittings manufactured under the BSI Kitemark Certification Scheme.

British Board of Agrément

BBA Logo Identifies non-Kitemarked fittings covered by a British Board of Agrément Certificate.

WRAS Water Regulations Advisory Scheme

Identifies pipe and fittings that are WRAS approved.

Important notes:

All Osma Soil, Waste and Overflow fittings must be ordered in their pack multiples as illustrated in price list, unless the pack quantity is highlighted in a darker shade which indicates they can be ordered in singles.

Product photos are for example only and not representative of every fitting size.

Acceptance

a) British Standards Institution

♥ Osma Above Ground Drainage Systems comply, where applicable, with the requirements of the following British Standards:

BS 4576: Part 1: 1989 - Half-round gutters and pipes of circular cross section.

BS EN 1329-1: 2000, BS 4514: 2001 - Unplasticized PVC soil and ventilating pipes, fittings and accessories.

BS EN 1451-1: 2000 - Polypropylene waste pipe and fittings.

BS 5255: 1989 - Thermoplastics waste pipe and fittings.

BS EN 1566-1: 2000 – Plastic piping systems for soil and waste discharge (low and high temperature) within the building structure - Chlorinated poly (vinyl chloride) (PVC-C).

BS 6209: 1982 - Solvent cement for non pressure thermoplastics pipe systems.

BS EN 607: 2004 - Eaves, gutters and fittings made of PVC-U definitions, requirements and testing.

BS EN 1462: 2004 - Brackets for eaves gutters: requirements and testing.

BS EN 12200-1: 2000 - Plastics rainwater piping systems for above ground external use - unplasticized Poly Vinyl Chloride (PVC-U) - Part 1 specifications for pipes, fittings and the system.

BS EN 1455-1: 2000 - Plastic piping systems for soil and waste (low and high temperature) within the building structure - Acrylonitrile-butadiene-styrene (ABS).

BS EN 12380:2002 - Air admittance valves for drainage systems. Requirements, test methods and evaluation of conformity.

BS 5254:1976 - Specification for polypropylene waste pipe and fittings (external diameter 34.6 mm, 41.0 mm and 54.1 mm).

BS EN 1453-1:2000 - Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings. Unplasticized poly (vinyl chloride) (PVC-U). Specifications for pipes and the system.

b) British Board of Agrément

▲ The OsmaSoil system has been awarded the following certificates:

86/1643 OsmaVent 110 and OsmaVent 40 Air Admittance Valves.

89/2174 OsmaSoil 110mm Adjustable Bends.

c) WRAS

Hep2O is approved (certificate 1312005) – deemed safe for use in the supply of drinking water.











The Silicone Lubricant Spray has WRAS approval for use with potable water.













All 110/160mm soil and drain pipe is manufactured using Wavin's Recycore Technology. The pipe contains over 50% recycled material but has exactly the same performance and handling characteristics as virgin pipe.

Osma RoundLine











Rainwater Half Round Domestic – PVC-U













Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Gutter					
	Gutter – 2.0m				
	▽	112	OT072B	5	20.42
	▽	112	OT072G	5	20.42
	▽	112	OT072W	5	20.42
	▽	112	OT072N	5	20.42
	Gutter – 4.0m				
	▽	112	OT074B	5	40.78
	▽	112	OT074G	5	40.78
	▽	112	OT074W	5	40.78
	▽	112	OT074N	5	40.78
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	112	OT005B	10	7.28
	▽	112	OT005G	5	7.28
	▽	112	OT005W	5	7.28
	▽	112	OT005N	5	7.28
	Gutter Union				
	▽	112	OT009B	10	9.81
	▽	112	OT009G	5	9.81
	▽	112	OT009W	5	9.81
	▽	112	OT009N	5	9.81
	Gutter Support Bracket				
	▽	112	OT019B	40	3.23
	▽	112	OT019G	20	3.23
	▽	112	OT019W	40	3.23
	▽	112	OT019N	20	3.23
	Gutter Bracket Spacer				
	– 21mm projection	–	OT044B	20	3.98
	Angled Bracket Spacer				
		–	OT045B	10	8.79
Outlets and Stopends					
	Running Outlet				
	– straight				
	▽	112	OT624B	5	14.99
	▽	112	OT624G	5	14.99
	Swivelock Running Outlet				
	– with fitted offset bend				
	Stopend Outlet				
	▽	112	OT007B	5	18.26
	▽	112	OT007G	5	18.26
	▽	112	OT007W	5	18.26
	▽	112	OT007N	5	18.26

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopend – internal				
	▽	112	OT010B	5	4.69
	▽	112	OT010G	5	4.69
	▽	112	OT010W	5	4.69
	Stopend – external				
	▽	112	OT011B	10	6.05
	▽	112	OT011G	5	6.05
	▽	112	OT011W	5	6.05
	▽	112	OT011N	5	6.05
Gutter Angles					
	Angle – 90°				
	▽	112	OT003B	5	14.05
	▽	112	OT003G	5	14.05
	▽	112	OT003W	5	14.05
	Angle – 60°				
	▽	112	OT003N	5	14.05
	Angle – 45°				
	▽	112	OT004B	5	18.37
	▽	112	OT004G	5	18.37
	▽	112	OT004W	5	18.37
	▽	112	OT004N	5	18.37
	24° – 150° Multi-angle				
	▽	112	OT002B	1	79.25
	Fabricated angles to order				
		112	OT999B	1	76.64
		112	OT999G	1	76.64
		112	OT999W	1	76.64
		112	OT999N	1	76.64
	Leaf Guard				
	Leaf Guard – 10 no. x 500mm	–	OT017B	1	43.19
Connectors to Metal and PVC-U Gutters					
	Connector to 4" or 4.5" CI Half-round Gutter				
	▽	112	OT008B	10	16.47
	Connector to 4.5" CI Ogee Gutter – LH				
	▽	112	OT014B	5	28.21
	Connector to 4.5" CI Ogee Gutter – RH				
	▽	112	OT015B	5	28.21

Osma RoundLine











Rainwater Half Round Domestic – PVC-U




Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Rise and Fall Brackets and Spikes					
	Bow and Pin	112	OT914B	10	13.90
	– for Rise and Fall Brackets	112	OT914G	10	13.90
	(for use with Build-in or Drive-in Spikes)	112	OT914W	10	13.90
		112	OT914N	10	13.90
	Build-in Spike				
	– 200mm long	–	OT985B	10	9.88
	– 300mm long	–	OT986B	10	14.86
	Drive-in Spike				
	– 200mm long	–	OT988B	10	8.23
	– 300mm long	–	OT989B	10	11.07
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket				
	– 300mm long	112	OT745B	20	17.05
	Side Rafter Bracket				
	– 300mm long	112	OT746B	20	18.46
Rafter Bracket (BZP)					
	Adjustable Top Rafter Bracket				
	– 300mm long	–	OT147G	20	21.27
	Adjustable Side Rafter Bracket				
	– 300mm long	–	OT148G	20	19.64
Rafter Bracket (galvanised)					
	Top Rafter Bracket				
	– 300mm long galvanised	112	OT245B	5	17.35
	Side Rafter Bracket				
	– 300mm long galvanised	112	OT246B	5	17.35
Pipe					
	P/E Pipe – 2.0m				
	▽	68	OT082B	5	22.89
	▽	68	OT082G	5	22.89
	▽	68	OT082N	5	22.89
	P/E Pipe – 2.75m				
	▽	68	OT086B	5	31.51
	▽	68	OT086G	5	31.51
	▽	68	OT086W	5	31.51
	▽	68	OT086N	5	31.51
	P/E Pipe – 4.0m				
	▽	68	OT084B	5	45.76
	▽	68	OT084G	5	45.76
	▽	68	OT084W	5	45.76
	▽	68	OT084N	5	45.76

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	P/E Pipe – 5.5m				
	▽	68	OT088B	5	59.77
	▽	68	OT088G	5	59.77
	▽	68	OT088W	5	59.77
	▽	68	OT088N	5	59.77
Pipe and Socket Brackets					
	Pipe or Socket Bracket				
	▽	68	OT033B	10	8.03
	▽	68	OT033G	5	8.03
	▽	68	OT033W	5	8.03
	▽	68	OT033N	5	8.03
	Pipe Bracket				
	▽	68	OT034B	20	5.59
	▽	68	OT034G	5	5.59
	▽	68	OT034W	5	5.59
	▽	68	OT034N	5	5.59
	Socket Bracket				
	▽	68	OT038B	10	6.56
	▽	68	OT038G	10	6.56
	▽	68	OT038W	10	6.56
	▽	68	OT038N	10	6.56
	Drive-in Pipe Bracket				
	▽	68	OT143B	10	18.64
	Pipe Bracket Spacer – for use with OT033	68	OT031B	10	2.66
	Bracket Extension Piece – for use with OT033	68	OT030B	5	3.12
Connectors and Adaptors					
	Pipe Connector				
	▽	68	OT024B	5	6.83
	▽	68	OT024G	5	6.83
	▽	68	OT024W	5	6.83
	▽	68	OT024N	5	6.83
	Connector to 2.5" CI RW pipe				
	▽	68	OT092B	5	16.87
	Rainwater Adaptor – 68mm pipe to 110mm PVC–U drain	–	4S149	10	14.25
	Rainwater Adaptor – 68mm pipe to 110mm PVC–U drain	–	OT149B	5	17.85
	Universal Drain Adaptor	–	4S159	10	15.18

Osma RoundLine











Rainwater Half Round Domestic – PVC-U











Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bends and Shoe				
	Offset Bend – socket				
	▽	68	OT025B	10	8.56
	▽	68	OT025G	5	8.56
	▽	68	OT025W	5	8.56
	Offset Bend – spigot				
	▽	68	OT026B	10	10.67
	▽	68	OT026G	5	10.67
	▽	68	OT026W	5	10.67
	▽	68	OT026N	5	10.67
	Long Tail Offset Bend – spigot				
	▽	68	OT027B	5	13.29
	Pipe Bend – 87.5°				
	▽	68	OT161B	5	16.52
	▽	68	OT161G	5	16.52
	▽	68	OT161W	5	16.52
	▽	68	OT161N	5	16.52
	Pipe Shoe				
	▽	68	OT037B	5	9.27
	▽	68	OT037G	5	9.27
	▽	68	OT037W	5	9.27
	▽	68	OT037N	5	9.27
	Branch, Access Pipe and Hopper Head				
	Pipe Branch – 67.5°				
	▽	68	OT035B	5	27.88
	▽	68	OT035G	5	27.88
	▽	68	OT035W	5	27.88
	Access Pipe – with screwed door				
	▽	68	OT274B	5	50.33
	▽	68	OT274G	5	50.33
	▽	68	OT274W	5	50.33
	▽	68	OT274N	5	50.33
	Hopper Head				
	▽	68	OT332B	5	37.43
	▽	68	OT332G	5	37.43
	▽	68	OT332W	5	37.43
	▽	68	OT332N	5	37.43
	Rainwater Diverter				
	Rainwater Diverter Kit	68	OT201B	1	58.71
		68	OT201W	1	58.71
	Spares				
	Gutter Seal	112	OT064G	5	2.38

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexiclip				
	▽	112	0T116B	1	1.82
	▽	112	0T116G	1	1.82
	▽	112	0T116W	1	1.82
	▽	112	0T116N	1	1.82
	Gutter Pad – narrow	112	0T060B	5	2.38
	Gutter Pad – wide	112	0T061B	5	2.38

Osma SquareLine








Rainwater Square – PVC-U











	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 2.0m				
	▽	100	4T872B	5	21.66
	▽	100	4T872W	5	21.66
	▽	100	4T872N	5	21.66
	Gutter – 4.0m				
	▽	100	4T874B	5	43.34
	▽	100	4T874W	5	43.34
	▽	100	4T874N	5	43.34
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	100	4T805B	20	9.53
	▽	100	4T805W	20	9.53
	▽	100	4T805N	20	9.53
	Gutter Union				
	▽	100	4T809B	10	15.19
	▽	100	4T809W	5	15.19
	▽	100	4T809N	5	15.19
	Gutter Support Bracket				
	▽	100	4T819B	20	4.10
	▽	100	4T819W	20	4.10
	▽	100	4T819N	20	4.10
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	3.98
	Angled Bracket Spacer	–	0T045B	10	8.79
Outlets and Stopends					
	Running Outlet				
	▽	100	4T806B	10	15.82
	▽	100	4T806W	10	15.82
	▽	100	4T806N	10	15.82
	Stopend Outlet				
	▽	100	4T807B	10	16.78
	▽	100	4T807W	10	16.78
	▽	100	4T807N	10	16.78
	Stopend – internal				
	▽	100	4T810B	5	6.08
	▽	100	4T810W	5	6.08
	▽	100	4T810N	5	6.08
	Stopend – external				
	▽	100	4T811B	10	7.02
	▽	100	4T811W	10	7.02
	▽	100	4T811N	10	7.02

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Gutter Angles					
	Angle – 90°				
	▽	100	4T803B	10	15.34
	▽	100	4T803W	10	15.34
	▽	100	4T803N	10	15.34
	Angle – 45°				
	▽	100	4T804B	5	21.31
	▽	100	4T804W	5	21.31
	▽	100	4T804N	5	21.31
	Fabricated angles to order	100	4T999B	1	79.95
		100	4T999W	1	79.95
		100	4T999N	1	79.95
Connectors to Metal and PVC–U Gutter					
	Connector to 4.5" RoundLine Gutter				
	▽	100	4T818B	5	25.74
	▽	100	4T818W	5	25.74
Rise and Fall Brackets and Spikes					
	Bow and Pin				
	– for Rise and Fall Brackets (for use with Build-in or in Spikes)	100	4T894B	10	17.09
	Build-in Spike				
	– 200mm long	–	0T985B	10	9.88
	Build-in Spike				
	– 300mm long	–	0T986B	10	14.86
	Drive-in Spike				
	– 200mm long	–	0T988B	10	8.23
	Drive-in Spike				
	– 300mm long	–	0T989B	10	11.07
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket				
	– 300mm long	–	0T147G	20	21.27
	Adjustable Side Rafter Bracket				
	– 300mm long	–	0T148G	20	19.64

Osmo SquareLine







Rainwater Square – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 2.0m				
	▽	61	4T882B	5	23.09
	▽	61	4T882W	5	23.09
	▽	61	4T882N	5	23.09
	P/E Pipe – 2.75m				
	▽	61	4T886B	5	32.64
	▽	61	4T886W	5	32.64
	▽	61	4T886N	5	32.64
	P/E Pipe – 4.0m				
	▽	61	4T884B	5	47.29
	▽	61	4T884W	5	47.29
	▽	61	4T884N	5	47.29
	P/E Pipe – 5.5m				
	▽	61	4T888B	5	65.08
	▽	61	4T888W	5	65.08
	▽	61	4T888N	5	65.08
Pipe Brackets and Spacer					
	Pipe Bracket – Stand Off				
	▽	61	4T833B	5	5.43
	▽	61	4T833W	5	5.43
	▽	61	4T833N	5	5.43
	Pipe Bracket				
	▽	61	4T834B	5	4.62
	▽	61	4T834W	5	4.62
	▽	61	4T834N	5	4.62
	Pipe Bracket Spacer	–	4T731B	10	7.68
	– for use with 4T834, 4T823, 4T832, 4T858, 4T855	–	4T731W	10	7.68
Connectors and Adaptors					
	Pipe Connector and Bracket – Stand Off				
	▽	61	4T824B	5	15.94
	▽	61	4T824W	5	15.94
	▽	61	4T824N	5	15.94
	Pipe Connector and Bracket				
	▽	61	4T823B	5	14.44
	▽	61	4T823W	5	14.44
	Drain Adaptor – Square to Round				
	▽	61	4T836B	10	13.09
	Outlet Adaptor – Square to Round				
	▽	61	4T837B	5	16.33
	Rainwater Adaptor	–	4S149	10	14.25
	68mm pipe to 110mm PVC-U drain				

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Rainwater Adaptor 68mm pipe to 110mm PVC-U drain ▽	–	0T149B	5	17.85
	Universal Drain Adaptor	–	4S159	10	15.18
Bends, Shoe and Wall Offsets					
	Offset Bend – socket ▽	61	4T825B	20	9.14
	▽	61	4T825W	20	9.14
	▽	61	4T825N	20	9.14
	Offset Bend – spigot ▽	61	4T826B	10	11.34
	▽	61	4T826W	10	11.34
	▽	61	4T826N	10	11.34
	Pipe Bend – 87.5° ▽	61	4T862B	5	19.51
	▽	61	4T862W	5	19.51
	▽	61	4T862N	5	19.51
	Pipe Shoe and Bracket ▽	61	4T832B	5	13.55
	▽	61	4T832W	5	13.55
	▽	61	4T832N	5	13.55
	Pipe Wall Offset ▽	61	4T838B	10	18.34
	▽	61	4T838W	10	18.34
	▽	61	4T838N	10	18.34
	Pipe Wall Offset – with access	61	4T858B	5	51.46
Branch, Access Pipe and Hopper Head					
	Pipe Branch – 67.5° ▽	61	4T835B	5	37.49
	▽	61	4T835W	5	37.49
	▽	61	4T835N	5	37.49
	Access Pipe	61	4T855B	5	51.46














Osma SquareLine

Rainwater Square – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hopper Head	61	4T830B	5	47.29
		61	4T830W	5	47.29
		61	4T830N	5	47.29
Rainwater Diverter Kit					
	Rainwater Diverter Kit	61	0T201B	1	58.71
		61	0T201W	1	58.71
Spares					
	Gutter Seal	100	4T864B	5	2.40
	Flexiclip				
	▽	100	4T816B	1	2.23
	▽	100	4T816W	1	2.23
	▽	100	4T816N	1	2.23
	Gutter Pad – narrow	100	4T860G	10	2.39
	Gutter Pad – wide	100	4T861G	10	2.44















Osma StormLine

Rainwater Ogee – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 4.0m	111	8T874B	4	57.62
		111	8T874W	4	57.62
Gutter Unions and Brackets					
	Gutter Jointing Bracket				
	▽	111	8T809B	10	14.00
	▽	111	8T809W	10	14.00
	Gutter Support Bracket				
	▽	111	8T819B	10	5.19
	▽	111	8T819W	10	5.19
	Gutter Hanging Bracket				
		111	8T849B	20	6.91
		111	8T849W	20	6.91
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	3.98
Outlets and Stopends					
	Running Outlet				
	▽	111	8T806B	5	17.88
	▽	111	8T806W	5	17.88
	Stopend Outlet (left hand)				
	▽	111	8T807B	5	17.32
	▽	111	8T807W	5	17.32
	Stopend Outlet (right hand)				
	▽	111	8T808B	5	17.32
	▽	111	8T808W	5	17.32
	Stopend – internal (left hand)				
	▽	111	8T840B	5	7.88
	▽	111	8T840W	5	7.88
	Stopend – internal (right hand)				
	▽	111	8T850B	5	7.88
	▽	111	8T850W	5	7.88
	Stopend – external (left hand)				
	▽	111	8T841B	10	11.01
	▽	111	8T841W	10	11.01
	Stopend – external (right hand)				
	▽	111	8T851B	10	11.01
	▽	111	8T851W	10	11.01
Gutter Angles					
	Angle – 90° (internal)				
	▽	111	8T843B	5	20.61
	▽	111	8T843W	5	20.61

Osma StormLine

Rainwater Ogee – PVC-U











Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 90° (external)	111	8T853B	5	18.33
		111	8T853W	5	18.33
	Angle – 45° (internal)	111	8T844B	5	21.69
		111	8T844W	5	21.69
	Angle – 45° (external)	111	8T854B	5	21.69
		111	8T854W	5	21.69
Fabricated angles to order		–	8T999B	1	88.72
		–	8T999W	1	88.72
Rise and Fall Brackets and Spikes					
	Bow and Pin	111	8T894B	10	20.54
	– For Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	111	8T894W	10	20.54
	Build-in Spike	–	0T985B	10	9.88
	– 200mm long	–	0T986B	10	14.86
	Drive-in Spike	–	0T988B	10	8.23
	– 200mm long	–	0T989B	10	11.07
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket	–	0T147G	20	21.27
	– 300mm long				
	Adjustable Side Rafter Bracket	–	0T148G	20	19.64
	– 300mm long				
Spares					
	Gutter Seal	111	8T864B	1	2.00
	Flexiclip	111	8T816B	1	2.10
		111	8T816W	1	2.10

Note:

For details of 61mm (2¼") and 68mm (2½") pipe and fittings for use with the StormLine Rainwater System refer to pages 9-12 and 5-7.

Osma DeepLine

Rainwater High Capacity – PVC-U








	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 4.0m				
	▽	113	9T974B	5	47.49
	▽	113	9T974G	5	47.49
	▽	113	9T974W	5	47.49
	▽	113	9T974N	5	47.49
Gutter Union and Brackets					
	Gutter Union				
	▽	113	9T909B	5	11.55
	▽	113	9T909G	5	11.55
	▽	113	9T909W	5	11.55
	▽	113	9T909N	5	11.55
	Gutter Support Bracket				
	▽	113	9T919B	40	4.02
	▽	113	9T919G	20	4.02
	▽	113	9T919W	20	4.02
	▽	113	9T919N	20	4.02
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	3.98
	Angled Bracket Spacer	–	0T045B	10	8.79
Outlet and Stopends					
	Running Outlet				
	▽	113	9T906B	5	14.21
	▽	113	9T906G	5	14.21
	▽	113	9T906W	5	14.21
	▽	113	9T906N	5	14.21
	Stopend – internal				
	▽	113	9T910B	5	5.05
	▽	113	9T910G	5	5.05
	▽	113	9T910W	5	5.05
	▽	113	9T910N	5	5.05
	Stopend – external				
	▽	113	9T911B	5	7.11
	▽	113	9T911G	5	7.11
	▽	113	9T911W	5	7.11
	▽	113	9T911N	5	7.11
Gutter Angles					
	Angle – 90°				
	▽	113	9T903B	5	18.37
	▽	113	9T903G	5	18.37
	▽	113	9T903W	5	18.37
	▽	113	9T903N	5	18.37
	Angle – 45°				
	▽	113	9T904B	5	21.06
	▽	113	9T904G	5	21.06
	▽	113	9T904W	5	21.06
	▽	113	9T904N	5	21.06

Note:

For details of 68mm (2½") pipe and fittings for use with the DeepLine Rainwater System refer to pages 6-8.














Osma DeepLine

Rainwater High Capacity – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Fabricated angles to order		113	9T999B	1	80.95
		113	9T999G	1	80.95
		113	9T999W	1	80.95
		113	9T999N	1	80.95
Rise and Fall Brackets and Spikes					
	Bow and Pin	113	9T994B	10	18.72
	– for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	113	9T994G	10	18.72
	Build-in Spike	–	0T985B	10	9.88
	– 200mm long – 300mm long	–	0T986B	10	14.86
	Drive-in Spike	–	0T988B	10	8.23
	– 200mm long – 300mm long	–	0T989B	10	11.07
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket	–	0T147G	20	21.27
	– 300mm long				
	Adjustable Side Rafter Bracket	–	0T148G	20	19.64
	– 300mm long				
Spares					
 	Gutter Seal	113	9T964B	10	1.91
	Flexiclip				
	♥	113	9T916B	1	1.93
	♥	113	9T916G	1	1.93
	♥	113	9T916W	1	1.93
♥	113	9T916N	1	1.93	







Osma SuperLine

Rainwater Half Round Commercial – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter Gutter – 4.0m ♥	125	5T574B	5	62.61
Gutter Union and Brackets					
	Gutter Union ♥	125	5T509B	5	13.91
	Gutter Support Bracket ♥	125	5T519B	5	5.08
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	3.98
	Angled Bracket Spacer	–	0T045B	10	8.79
Outlet and Stopends					
	Running Outlet ♥	125	5T508B	5	20.77
	Stopend – internal ♥	125	5T510B	5	6.75
	Stopend – external ♥	125	5T511B	5	10.18
Gutter Angles					
	Angle – 90° ♥	125	5T503B	5	23.23
	Angle – 45° ♥	125	5T504B	5	26.48
	Fabricated angles to order	125	5T999B	1	93.06
Rise and Fall Brackets and Spikes					
	Bow and Pin – for Rise and Fall Brackets (for use with Build-in or Drive-in-Spikes)	125	5T594B	5	22.36
	Build-in Spike – 200mm long	–	0T985B	10	9.88
	– 300mm long	–	0T986B	10	14.86
	Drive-in Spike – 200mm long	–	0T988B	10	8.23
	– 300mm long	–	0T989B	10	11.07

Osmia SuperLine




Rainwater Half Round Commercial – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Rafter Brackets (PVC Coated Steel)					
	Top Rafter Bracket – 300mm long	125	5T595B	10	23.06
	Side Rafter Bracket – 300mm long	125	5T596B	10	24.40
Rafter Bracket (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	21.27
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	19.64
Spares					
	Gutter Seal	125	5T564B	10	2.58
	Flexiclip ▽	125	5T516B	1	2.39

Note:
For details of 68mm (2½") pipe and fittings for use with the SuperLine Rainwater System refer to pages 6-8.





Osma RoofLine

Rainwater Half Round Commercial – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter Gutter – 4.0m				
	▽ ▽	150 150	6T674B 6T674G	5 5	126.26 126.26
	Gutter Union and Bracket Gutter Union				
	▽ ▽	150 150	6T609B 6T609G	5 5	37.37 37.37
	Gutter Support Bracket				
	▽ ▽	150 150	6T619B 6T619G	10 10	13.09 13.09
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	3.98
	Outlet and Stopends Running Outlet				
	▽ ▽	150 150	6T606B 6T606G	5 5	51.32 51.32
	Stopend – internal				
	▽ ▽	150 150	6T610B 6T610G	5 5	8.79 8.79
	Stopend – external				
	▽ ▽	150 150	6T611B 6T611G	5 5	25.46 25.46
	Gutter Angles Angle – 90°				
	▽ ▽	150 150	6T603B 6T603G	5 5	72.08 72.08
	Fabricated angles to order				
		150 150	6T999B 6T999G	1 1	129.18 136.65
	Rise and Fall Brackets and Spikes Bow and Pin – for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)				
		150 150	6T694B 6T694G	20 20	28.34 28.34
	Build-in Spike – 200mm long – 300mm long				
		– –	0T985B 0T986B	10 10	9.88 14.86
	Drive-in Spike – 200mm long – 300mm long				
		– –	0T988B 0T989B	10 10	8.23 11.07
	Rafter Brackets (PVC coated steel) Top Rafter Bracket – 300mm long				
		150	6T695B	10	25.31

Osmar RoofLine









Rainwater Half Round Commercial – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Side Rafter Bracket – 300mm long	150	6T696B	10	26.78
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	21.27
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	19.64
Spares					
	Gutter Seal	150	6T664B	4	2.90
	Flexiclip ▽	150	6T616B	1	2.67
	Flexiclip ▽	150	6T616G	1	2.67

Note:
For details of 110mm (4") pipe and fittings for use with the RoofLine Rainwater System refer to pages 22-37.

OsmaSoil







Soil and Vent PVC-U Ring-Seal System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	S/S Pipe – 2.0m				
	♥	82	3S042G	1	58.37
	♥ ♻️	110	4S042B	2	52.40
	S/S Pipe – 2.5m				
	♥ ♻️	110	4S050G	50	63.67
	S/S Pipe – 3.0m				
	♥	82	3S043B	2	80.67
	♥ ♻️	82	3S043G	2	80.67
	♥ ♻️	110	4S043B	2	70.60
	♥ ♻️	110	4S043G	2	70.60
	♥ ♻️	110	4S043W	2	70.60
	♥ ♻️	160	6S043G	2	262.97
	S/S Pipe – 4.0m				
	♥	82	3S044B	2	105.64
	♥	82	3S044G	2	105.64
	♥ ♻️	110	4S044B	2	95.25
	♥ ♻️	110	4S044G	2	95.25
	♥ ♻️	110	4S044W	2	95.25
	♥ ♻️	160	6S044G	2	342.17
	P/E Pipe – 3.0m				
	♥ ♻️	110	4S073B	2	67.92
	♥ ♻️	110	4S073G	2	67.92
	♥ ♻️	110	4S073E	2	67.92
	♥ ♻️	110	4S073W	2	67.92
	P/E Pipe – 4.0m				
	♥	82	3S074B	2	105.23
	♥	82	3S074G	2	105.23
	♥ ♻️	110	4S074B	2	90.55
	♥ ♻️	110	4S074G	2	90.55
	♥ ♻️	110	4S074E	2	90.55
	♥ ♻️	110	4S074W	2	90.55
	♥ ♻️	160	6S074B	2	316.81
	♥ ♻️	160	6S074G	2	316.81
	♥ ♻️	160	6S074E	2	316.81
	Brackets				
	Pipe Bracket				
	♥	82	3S082B	5	8.09
	♥	82	3S082G	5	8.09
	♥	110	4S082B	10	6.92
	♥	110	4S082G	10	6.92
	♥	110	4S082E	20	6.92
	♥	110	4S082W	10	6.92
	♥	160	6S082B	1	25.39
	♥	160	6S082G	1	25.39
	Socket Bracket				
	♥	82	3S083B	5	10.48
	♥	82	3S083G	5	10.48
	♥	110	4S083B	5	8.98
	♥	110	4S083G	5	8.98
	♥	110	4S083E	5	8.98
	♥	110	4S083W	5	8.98

Note: ♻️ Recycore Technology applies to 110mm and 160mm sizes only.

OsmaSoil











Soil and Vent PVC-U Ring-Seal System





Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe or Socket Bracket – BZP coated steel				
	♥	82	3S084	10	19.58
	♥	110	4S084	10	19.98
	♥	160	6S084	1	42.16
	Suspended Bracketing System (Not suitable for damp inaccessible voids)				
	Adjustable Pipe Bracket Assembly (pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110 160	4S086 6S086	1 1	64.95 92.59
	Adjustable Socket Bracket and Brace Assembly (pack containing threaded rod, threaded bracket, bracket plate, two adjustable braces and pipe/socket bracket) – BZP coated steel	110 160	4S085 6S085	1 1	133.68 156.97
	Sockets				
	D/SW Double Socket				
	♥	110	4S104B	5	15.23
	♥	110	4S104G	5	15.23
	♥	110	4S104E	10	15.23
	♥	110	4S104W	5	15.23
	♥	160	6S104B	1	36.87
	♥	160	6S104G	1	36.87
	♥	160	6S104E	1	36.87
	D/S Double Socket – for repairs				
	♥	82	3S105B	5	30.44
	♥	82	3S105G	5	30.44
	♥	110	4S105B	5	32.86
	♥	110	4S105G	5	32.86
	♥	110	4S105W	5	32.86
	♥	160	6S105G	1	92.59
	S/SW Single Socket				
	♥	82	3S124B	5	17.74
	♥	82	3S124G	5	17.74
	♥	110	4S124B	5	15.85
	♥	110	4S124G	5	15.85
	♥	110	4S124E	5	15.85
	♥	110	4S124W	5	15.85
	♥	160	6S124B	1	54.24
	♥	160	6S124G	1	54.24
	D/S Acoustic Socket				
	♥	110	4S125B	5	24.07
	♥	110	4S125G	5	24.07
	♥	110	4S125E	5	24.07
	D/S Double Sockets				
		110	4S205B	10	28.31
		110	4S205G	10	28.31
		110	4S205W	10	28.31

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors					
	S/S Connector to CI soil socket ♥	110	4S106G	5	44.78
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	47.37
	Internal Drain Connector for 32mm/40mm waste pipe	110	4S298	5	16.08
	Internal Drain Connector – for 50mm waste pipe	110	4S299	5	18.52
Reducers					
	S/S Reducer – 82mm x 50mm ♥	82	3S094B	5	37.19
	♥	82	3S094G	5	37.19
	Reducer – 110mm x 32mm waste	110	4S098G	5	36.86
	Reducer – 110mm x 40mm waste	110	4S097G	5	36.86
	S/S Reducer – 110mm x 50mm ♥	110	4S096B	5	35.00
	♥	110	4S096G	5	35.00
	S/S Reducer – 110mm x 82mm ♥	110	4S095B	5	32.09
	♥	110	4S095G	5	32.09
	S/S Reducer – 160mm x 110mm ♥	160	6S099G	1	82.16

OsmaSoil










Soil and Vent PVC-U Ring-Seal System












Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Bends					
	S/S Bend – 87.5°				
	▽	82	3S161B	5	36.04
	▽	82	3S161G	5	36.04
	▽	110	4S161B	5	41.96
	▽	110	4S161G	5	41.96
	▽	110	4S161W	5	41.96
	▽	160	6S161G	1	142.09
	S/SW Bend – 87.5°				
	▽	110	4S361G	5	41.30
	S/S Tight Radius Bend – 87.5°				
	▽	110	4S160B	10	46.61
	▽	110	4S160G	10	46.61
	▽	110	4S160W	10	46.61
	D/S Bend – 87.5°				
		110	4S561B	5	52.34
		110	4S561G	5	52.34
		110	4S561W	5	52.34
	S/S Bend – 76°				
	▽	110	4S164B	5	59.76
	▽	110	4S164G	5	59.76
	S/S Bend – 67.5°				
	▽	82	3S162G	5	44.93
	▽	110	4S162G	5	60.22
	S/S Bend – 45°				
	▽	82	3S163B	5	36.04
	▽	82	3S163G	5	36.04
	▽	110	4S163B	5	41.96
	▽	110	4S163G	5	41.96
	▽	110	4S163W	5	41.96
	▽	160	6S163G	1	142.09
	S/SW Bend – 45°				
	▽	110	4S363B	5	41.30
	▽	110	4S363G	5	41.30
	▽	110	4S363W	5	41.30
	S/S Bend – 30°				
	▽	110	4S166G	5	46.47
	S/S Bend – 15°				
	▽	110	4S167G	5	53.47

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Adjustable Bends					
	S/S Adjustable Bend – 30° ▲	110	4S173G	1	52.71
	S/S Adjustable Bend – 90° ▲	110	4S179G	1	59.61
Offset Bends					
	SW/S Offset Bend (bottom) ▽	82	3S435G	5	37.55
	▽	110	4S435B	5	39.17
	▽	110	4S435G	5	39.17
	▽	110	4S435E	5	39.17
	▽	110	4S435W	5	39.17
	S/SW Offset Bend (top) ▽	82	3S440B	5	44.30
	▽	82	3S440G	5	44.30
	▽	110	4S440B	5	53.72
	▽	110	4S440G	5	53.72
	▽	110	4S440W	5	53.72
	S/S Offset Bend ▽	110	4S444B	5	53.72
	▽	110	4S444G	5	53.72
	▽	110	4S444W	5	53.72
	D/S Offset Bend ▽	110	4S445B	5	59.76
	▽	110	4S445G	5	59.76
	▽	110	4S445W	5	59.76
Manifolds					
	6 Boss Manifold	110	4S597G	1	65.99
	OsmaLink Soil Manifold ▽	110	4S595G	1	72.56
	All-Fit Reducer – 1½" / 40 x 1¼" / 32	40	4Z124W	10	6.17
	All-Fit Reduction Bend – 2" / 50 x 1½" / 40	50	2S355W	10	10.21

OsmaSoil










Soil and Vent PVC-U Ring-Seal System






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	All-Fit 90° Spigot Bend – 2" / 50	50	2S356W	5	16.81
Branches					
	S/S Single Branch – 87.5°				
	♥	82	3S190B	5	64.13
	♥	82	3S190G	5	64.13
	♥	110	4S190B	5	59.23
	♥	110	4S190G	5	59.23
	♥	110	4S190W	5	59.23
	♥	160	6S190G	1	256.64
	S/S Single 5 Boss Branch – 87.5°				
	♥	110	4S195B	5	76.77
	♥	110	4S195G	5	76.77
	♥	110	4S195W	5	76.77
	S/SW Single 5 Boss Branch – 87.5°				
	♥	110	4S395G	5	66.58
	S/S Unequal Single Branch – 87.5°				
	♥	160	6S198G	1	197.78
	S/S Single Branch – 76°				
	♥	110	4S220B	1	85.91
	♥	110	4S220G	1	85.91
	S/S Single Branch – 67.5°				
	♥	110	4S200B	1	85.91
	♥	110	4S200G	1	85.91
	S/S Single Branch – 45°				
	♥	82	3S210G	5	64.13
	♥	110	4S210B	5	88.05
	♥	110	4S210G	5	88.05
	160x110mm				
	♥	160	6S218G	1	197.78
	S/S Double Branch – 87.5°				
	♥	110	4S230B	1	148.11
	♥	110	4S230G	1	148.11
	♥	110	4S230W	1	148.11

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Unequal Double Branch – 87.5° ♥	160	6S238G	1	349.53
	S/S Double Branch – 45° ♥	110	4S250G	1	184.65
	S/S Corner Branch – 87.5° ♥	110	4S291G	1	233.16
Boss Socket Adaptors					
	S/S Boss Adaptor (Ring–Seal) – for 1¼" / 32 plastic or copper pipe ♥	32	2S398B	10	8.29
	♥	32	2S398G	10	8.29
	♥	32	2S398W	5	8.29
	S/S Boss Adaptor (Ring–Seal) – for 1½" / 40 plastic or copper pipe ♥	40	2S399B	5	8.29
	♥	40	2S399G	10	8.29
	♥	40	2S399W	10	8.29
	S/S Boss Adaptor (Ring–Seal) – 2" / 50 plastic or copper pipe ♥	50	2S402B	5	10.68
	♥	50	2S402G	5	10.68
	♥	50	2S402W	5	10.68
	S/S Boss Adaptor 90° (Ring–Seal) – for 2" / 50 BS EN 1329, 1455 and 1566 pipe ♥	50	2S360G	10	11.77
	S/S Transition Adaptor – Osma to Hepworth ♥	50	2S404B	10	5.20
	♥	50	2S404W	10	5.20
Bossed Pipes					
	S/S Bossed Pipe – plain with one boss socket ♥	82	3S649B	10	34.40
	♥	82	3S649G	10	34.40
	S/S Bossed Pipe – for 1¼" / 32 plastic or copper pipe ♥ – NEW	110	4S581B	5	45.01
	♥	110	4S581G	5	45.01
	S/S Bossed Pipe – for 1½" / 40 plastic or copper pipe ♥ – NEW	110	4S582B	5	36.06
	♥	110	4S582G	5	36.06

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Soil and Vent PVC-U Ring-Seal System

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/SW Bossed Pipe (Ring Seal) – for 1 1/4" / 32 plastic or copper pipe				
	♥	110	4S583B	5	17.49
	♥	110	4S583G	5	17.49
	♥	110	4S583W	5	17.49
	D/SW Bossed Pipe (Ring Seal) – for 1 1/2" / 40 plastic or copper pipe				
	♥	110	4S584B	5	15.20
	♥	110	4S584G	5	15.20
	♥	110	4S584W	5	15.20
	D/SW Short Bossed Pipe				
		110	4S588B	5	15.08
		110	4S588G	5	15.08
	– NEW	110	4S588W	5	15.08
	S/S Bossed Pipe – plain with four boss sockets				
	♥	110	4S589B	5	24.52
	♥	110	4S589G	5	24.52
	♥	110	4S589W	5	24.52
	S/SW Bossed Pipe – plain with four boss sockets				
	♥	110	4S590B	5	29.23
	♥	110	4S590G	5	29.23
	♥	110	4S590E	5	29.23
Strap Bosses					
	Strap Boss				
	♥	82	3S319B	5	16.78
	♥	82	3S319G	5	16.78
	♥	110	4S319B	5	14.07
	♥	110	4S319G	5	14.07
	♥	110	4S319E	5	14.07
	♥	110	4S319W	5	14.07
	Clip Boss For Push-fit or Solvent Waste – 32mm				
		110	4S322B	10	17.32
		110	4S322G	10	17.32
		110	4S322W	10	17.32
	For Push-fit or Solvent Waste – 40mm				
		110	4S321B	5	17.32
		110	4S321G	5	17.32
		110	4S321W	5	17.32
	Patch Boss For Push-fit or Solvent Waste – 50mm				
	♥	82	3S323G	10	22.25
		110	4S323G	10	22.00
		160	6S323G	1	34.10




	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Access Fittings					
	S/S Access Bend – 87.5°				
	♥	110	4S169B	5	98.72
	♥	110	4S169G	5	98.72
	♥	110	4S169W	5	98.72
	S/SW Access Bend – 87.5°				
	♥	110	4S369G	5	113.43
	S/S Access Branch – 87.5°				
	♥	110	4S502B	1	133.68
	♥	110	4S502G	1	133.68
	S/S Access Pipe – with bolted door				
	♥	82	3S274B	5	70.81
	♥	82	3S274G	5	70.81
	S/S Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S274B	1	71.04
	♥	110	4S274G	5	71.04
	♥	110	4S274W	1	71.04
	♥	160	6S274G	1	192.46
	S/SW Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S374G	10	72.13
	Access Saddle				
	♥	110	4S275B	1	37.62
	♥	110	4S275G	1	37.62
Plugs					
	P/E Access Plug				
	♥	82	3S292B	5	35.05
	♥	82	3S292G	5	35.05
	♥	110	4S292B	1	32.81
	♥	110	4S292G	1	32.81
	♥	110	4S292E	1	32.81
	♥	110	4S292W	1	32.81
	♥	160	6S292B	1	71.74
	♥	160	6S292G	1	71.74

Note:

For OsmaSoil WC Connectors, Terminal Fittings and Ancillary Items see pages 39-43







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Soil and Vent PVC-U Ring-Seal System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	P/E Socket Plug – with one boss socket				
	▽	110	4S296B	5	23.13
	▽	110	4S296G	5	23.13
	▽	110	4S296E	5	23.13
	▽	110	4S296W	5	23.13
Spares					
	Snap Cap	82	3S116B	1	2.11
		82	3S116G	1	2.11
		110	4S116B	1	6.61
		110	4S116G	1	6.61
		110	4S116W	1	6.61
	T Ring Seal	82	3S130G	5	3.44
		110	4S130G	5	4.77
		160	6S130G	5	8.70

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Soil and Vent PVC-U Solvent Weld System

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
  	Pipe				
	P/E Pipe – 3.0m				
	▽ △	110	4S073B	2	67.92
	▽ △	110	4S073G	2	67.92
	▽ △	110	4S073E	2	67.92
	▽ △	110	4S073W	2	67.92
	P/E Pipe – 4.0m				
	▽ △	110	4S074B	2	90.55
	▽ △	110	4S074G	2	90.55
	▽ △	110	4S074E	2	90.55
  	Brackets				
	Pipe Bracket				
	▽	110	4S082B	10	6.92
	▽	110	4S082G	10	6.92
	▽	110	4S082E	20	6.92
	▽	110	4S082W	10	6.92
	▽	160	6S082B	1	25.39
	▽	160	6S082G	1	25.39
	▽	160	6S082E	1	25.39
	Socket Bracket				
	Suspended Bracketing System (Not suitable for damp inaccessible voids)				
	Adjustable Pipe Bracket Assembly (pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110 160	4S086 6S086	1 1	64.95 92.59
	Adjustable Socket Bracket and Brace Assembly (pack containing threaded rod, threaded bracket, bracket plate, two adjustable braces and pipe/socket bracket) – BZP coated steel	110 160	4S085 6S085	1 1	133.68 156.97

Note: △ Recycore Technology applies to 110mm and 160mm sizes only.

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Soil and Vent PVC-U Solvent Weld System











Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Sockets					
	D/SW Double Socket				
	▽	110	4S104B	5	15.23
	▽	110	4S104G	5	15.23
	▽	110	4S104E	10	15.23
	▽	110	4S104W	5	15.23
	▽	160	6S104B	1	36.87
	▽	160	6S104G	1	36.87
	D/S Double Socket – for repairs				
	▽	110	4S105B	5	32.86
	▽	110	4S105G	5	32.86
	▽	110	4S105W	5	32.86
	▽	160	6S105G	1	92.59
	S/SW Single Socket				
	▽	110	4S124B	5	15.85
	▽	110	4S124G	5	15.85
	▽	110	4S124E	5	15.85
	▽	110	4S124W	5	15.85
	▽	160	6S124B	1	54.24
	▽	160	6S124G	1	54.24
	D/S Acoustic Socket				
	▽	110	4S125B	5	24.07
	▽	110	4S125G	5	24.07
	▽	110	4S125E	5	24.07
Connectors					
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	47.37
Reducers					
	SW/S Reducer – 110mm x 50mm				
	▽	110	4S496B	5	31.57
	▽	110	4S496G	5	31.57
	S/S Reducer – 110mm x 82mm				
	▽	110	4S095B	5	32.09
	▽	110	4S095G	5	32.09
	SW/S Reducer – 160mm x 110mm				
	▽	160	6S499B	1	59.51
	▽	160	6S499G	1	59.51
	▽	160	6S499E	1	59.51
Expansion Cap					
	Expansion Cap – with integral ring-seal				
		110	4S416B	5	7.34
		110	4S416G	5	7.34
		110	4S416E	5	7.34
		160	6S416E	5	18.89

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Bends					
	D/SW Bend – 87.5°				
	▽	110	4S461B	5	41.26
	▽	110	4S461G	5	41.26
	▽	110	4S461E	5	41.26
	▽	110	4S461W	5	41.26
	▽	160	6S461B	1	108.69
	▽	160	6S461G	5	108.69
	▽	160	6S461E	1	108.69
	D/SW Bend – 67.5°				
	▽	110	4S462B	5	44.63
	▽	110	4S462G	5	44.63
	D/SW Bend – 45°				
	▽	110	4S463B	5	41.21
	▽	110	4S463G	5	41.21
	▽	110	4S463E	5	41.21
	▽	160	6S463B	1	111.33
	▽	160	6S463G	5	111.33
	▽	160	6S463E	1	111.33
	SW/S Bend – 45°				
	▽	110	4S263B	5	44.63
	▽	110	4S263G	5	44.63
	▽	110	4S263E	5	44.63
	SW/S Bend – 11.25°				
	▽	110	4S268B	5	43.06
	▽	110	4S268G	5	43.06
	▽	110	4S268E	5	43.06
	SW/S Long Tail Bend – 87.5°				
	▽	110	4S260B	5	47.41
	▽	110	4S260G	5	47.41
	▽	110	4S260E	5	47.41
Offset Bends					
	SW/S Offset Bend (bottom)				
	▽	110	4S435B	5	39.17
	▽	110	4S435G	5	39.17
	▽	110	4S435E	5	39.17
	D/SW Offset Bend (top)				
	▽	110	4S450B	5	43.70
	▽	110	4S450G	1	43.70
	▽	110	4S450E	5	43.70
Manifold					
	6 Boss Manifold	110	4S597G	1	65.99

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Soil and Vent PVC-U Solvent Weld System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Branches					
	D/SW Single Branch – 87.5°				
	▽	110	4S490B	5	58.33
	▽	110	4S490G	5	58.33
	▽	110	4S490E	5	58.33
	▽	160	6S490B	1	185.58
	▽	160	6S490G	5	185.58
	▽	160	6S490E	1	185.58
	SW/S Single Branch – 87.5°				
	▽	110	4S290B	5	58.36
	▽	110	4S290G	5	58.36
	▽	110	4S290E	5	58.36
	D/SW Single 5 Boss Branch – 87.5°				
	▽	110	4S495B	5	60.71
	▽	110	4S495G	5	60.71
	▽	110	4S495E	5	60.71
	D/SW Unequal Single Branch – 87.5°				
	▽	160	6S498B	1	143.18
	▽	160	6S498G	5	143.18
	▽	160	6S498E	1	143.18
	D/SW Single Branch – 45°				
	▽	110	4S410B	5	65.94
	▽	110	4S410G	5	65.94
	▽	110	4S410E	5	65.94
	D/SW Double Branch – 87.5°				
	▽	110	4S430B	1	146.01
	▽	110	4S430G	5	146.01
	▽	110	4S430E	1	146.01
	SW/S Corner Branch – 87.5°				
	▽	110	4S491B	1	258.39
	▽	110	4S491G	5	258.39
	▽	110	4S491E	1	258.39
Boss Socket Adaptors					
	SW/S Boss Adaptor (Solvent Weld) – for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe				
	▽	32	2S298B	10	7.71
	▽	32	2S298G	10	7.71
	▽	32	2S298E	10	7.71
	▽	32	2S298W	10	7.71
	SW/S Boss Adaptor (Solvent Weld) – 1½" / 40mm BS EN 1329, 1455 and 1566 pipe				
	▽	40	2S299B	10	7.12
	▽	40	2S299G	10	7.12
	▽	40	2S299E	10	7.12
	▽	40	2S299W	10	7.12

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Boss Adaptor (Solvent Weld) – for 2" / 50mm BS EN 1329, 1455 and 1566 pipe				
	▽	50	2S403B	5	8.49
	▽	50	2S403G	5	8.49
	▽	50	2S403E	5	8.49
	▽	50	2S403W	5	8.49
Bossed Pipes					
	D/SW Bossed Pipe (Solvent Weld) – for 1 1/4" / 32mm BS EN 1329, 1455 and 1566 pipe				
	▽	110	4S483B	5	18.13
	▽	110	4S483G	5	18.13
	▽	110	4S483E	5	18.13
	D/SW Bossed Pipe (Solvent Weld) – 1 1/2" / 40mm BS EN 1329, 1455 and 1566 pipe				
	▽	110	4S484B	5	18.13
	▽	110	4S484G	5	18.13
	▽	110	4S484E	5	18.13
	D/SW Bossed Pipe – plain (four boss sockets)				
	▽	110	4S586B	5	20.17
	▽	110	4S586G	5	20.17
	▽	110	4S586E	5	20.17
	SW/S Bossed Pipe – plain (four boss sockets)				
	▽	110	4S585B	5	20.17
	▽	110	4S585G	5	20.17
	▽	110	4S585E	5	20.17
	D/SW Short Bossed Pipe				
	▽	110	4S588B	5	15.08
	▽	110	4S588G	5	15.08
	▽	110	4S588W	5	15.08
	S/SW Bossed Pipe – plain (four boss sockets)				
	▽	110	4S590B	5	29.23
	▽	110	4S590G	5	29.23
	▽	110	4S590E	5	29.23
Strap Boss					
	▽	110	4S319B	5	14.07
	▽	110	4S319G	5	14.07
	▽	110	4S319E	5	14.07
	▽	110	4S319W	5	14.07
Access Fittings					
	D/SW Access Bend – 87.5°				
	▽	110	4S469B	5	103.99
	▽	110	4S469G	5	103.99
	▽	110	4S469E	5	103.99
	D/SW Access Branch – 87.5°				
	▽	110	4S493B	1	110.69
	▽ –	110	4S493G	5	110.69
	▽	110	4S493E	1	110.69

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Soil and Vent PVC-U Solvent Weld System

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Bossed Access Pipe – with screwed access and three boss sockets				
	▽	110	4S574B	5	73.29
	▽	110	4S574G	1	73.29
	▽	110	4S574E	5	73.29
	▽	160	6S474B	1	156.77
	▽	160	6S474G	1	156.77
	D/SW Bossed Access Pipe – with screwed access and three boss sockets				
	▽	110	4S474B	5	73.29
	▽	110	4S474G	5	73.29
	▽	110	4S474E	5	73.29
	Access Saddle				
	▽	110	4S275B	1	37.62
	▽	110	4S275G	1	37.62
Plugs					
	P/E Access Plug				
	▽	82	3S292B	5	35.05
	▽	82	3S292G	5	35.05
	▽	110	4S292B	1	32.81
	▽	110	4S292G	1	32.81
	▽	110	4S292E	1	32.81
	▽	110	4S292W	1	32.81
	▽	160	6S292B	1	71.74
	▽	160	6S292G	1	71.74
	SW/S Access Plug				
	▽	110	4S492B	5	41.32
	▽	110	4S492G	1	41.32
	▽	110	4S492E	5	41.32
	P/E Socket Plug – with one boss socket				
	▽	110	4S296B	5	23.13
	▽	110	4S296G	5	23.13
	▽	110	4S296E	5	23.13
	▽	110	4S296W	5	23.13




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WC Connectors

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
WC Manifold Branches (for WC to BS 5503)					
	S/SW Manifold Branch – Straight ▽	110	4S601W	1	209.09
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	209.09
	(RH) ▽	110	4S612W	1	209.09
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	209.09
	(RH) ▽	110	4S613W	1	209.09
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	209.09
	(RH) ▽	110	4S614W	1	209.09
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	209.09
	(RH) ▽	110	4S615W	1	209.09
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	209.09
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	31.77
	SW/S WC Connector – 2.5° ▽	110	4S792W	5	33.61
	P/E WC Connector – 14° ▽	110	4S711W	5	37.67
	P/E WC Connector – 90° ▽	110	4S771W	10	53.89
	SW/S WC Connector – 90° ▽	110	4S772W	10	46.77


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WC Connectors

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
WC Connectors and Gaskets (for WCs to BS 1213)					
	SW/S WC Connector – 87.5° ♻️	110	4S745W	5	41.78
	WC Gasket – for WC spigots from 4" to 4¼"	110	4S121W	10	19.33
	WC Gasket – for WC spigots from 4¼" to 4½"	110	4S120W	10	18.13
WC Connectors – Ancillary Products					
	S/S Long Tail Bend – 87.5° ♻️	110	4S790W	5	53.72
	P/E Pipe – 600mm length ♻️ ♻️	110	4S600W	1	30.48
 					

Note: ♻️ Recycore Technology applies to 110mm and 160mm sizes only.

WC Connectors – Easy-fit

Description		Nom dia inch	Cat no	Pack qty	Price £ per piece
	Easy-Fit Pan Connectors				
	Style 1 – Straight	3½in	WC003W	1	22.74
		4in	WC004W	1	16.85
	Style 1 – Offset	4in	WC204W	1	20.67
	Style 1 – 14°	4in	WC144W	1	21.75
	Style 90°	4in	WC904W	1	24.16
	Straight Extension Piece	4in	WC404W	1	20.71

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Ancillaries







Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Terminal Fittings				
	Balloon Grating	82	3S302B	5	12.76
		82	3S302G	5	12.76
		110	4S302B	5	9.71
		110	4S302G	5	9.71
		110	4S302E	5	9.71
		110	4S302W	5	9.71
	Weathering Collar	160	6S302G	1	36.43
		82	3S300B	5	14.57
		110	4S300B	5	13.58
		110	4S300G	5	13.58
		110	4S300W	5	13.58
	SW/S Vent Cowl				
	▽	110	4S310B	1	49.06
	▽	110	4S310G	1	49.06
	▽	110	4S310E	1	49.06
	▽	110	4S310W	1	49.06
	Spare Top for 4S700W	110	4S701W	1	54.94
	Flexible Vent Pipe				
	– connects to ridge tile adaptor. Length 500mm	110	4S308B	1	118.61
	Air Admittance Valves				
	OsmoVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe				
	▲	40	4S303W	1	73.51
					
	OsmoVent Air Admittance Valve – can also be adapted to fit 82mm soil				
	▲	110	4S304W	1	166.13
	Domestic Air Admittance Valve All				
	▲	110	4S306G	1	107.89
	Pipe Flashings				
	VariPitch Pipe Flashing – 400mm x 400mm – for flat roofs		4S281G	1	132.13
	– 450mm x 450mm – for pitched roofs		4S283G	1	127.28

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Roof Outlets					
	SW/S Domed Roof Outlet	82	3S414G	1	123.44
		110	4S414G	1	136.95
Rainwater Hopper and Shoe					
	Hopper Head	82	3S530B	1	98.73
		110	4S326B	5	83.05
		110	4S326G	5	83.05
	S/S Rainwater Pipe Shoe	82	3S288B	5	47.16
		110	4S288B	1	70.37
		110	4S288G	1	70.37
	Fire Stop Seal	50	2S001	1	226.90
		82	3S001	1	290.34
		110	4S001	1	287.33
Cleaners, Solvent Cements, Lubricants					
	Degreasing Cleaner No.1 – 250ml can	–	4S380G	10	17.46
	Solvent Cement No. 2 – 125ml can	–	4S383G	10	20.23
	– 250ml can	–	4S384G	10	27.23
	– 500ml can	–	4S385G	10	59.27
	Solvent Cement Filler – 140ml tube	–	4S394G	5	28.68
	Silicone Lubricant – 50g tube	–	4S391G	5	22.73
	Silicone Lubricant Spray – 400ml can	–	4S392	1	39.56

Osmaweld









ABS Solvent Weld Waste














Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe P/E Pipe – 3.0m				
	♥	32	4Z073B	10	13.78
	♥	32	4Z073W	10	13.78
	♥	40	5Z073B	10	17.03
	♥	40	5Z073W	10	17.03
	♥	50	2Z073B	10	21.85
	♥	50	2Z073W	10	21.85
	P/E Pipe – 4.0m				
	♥	32	4Z074G	10	18.38
	♥	40	5Z074G	10	22.67
	♥	50	2Z074G	10	29.12
	Bracket Pipe Bracket				
	♥	32	4Z081B	30	1.04
	♥	32	4Z081G	30	1.04
	♥	32	4Z081W	30	1.04
	♥	40	5Z081B	30	1.06
	♥	40	5Z081G	30	1.06
	♥	40	5Z081W	30	1.06
	♥	50	2Z081B	20	2.14
	♥	50	2Z081G	10	2.14
	♥	50	2Z081W	10	2.14
	Sockets Double Socket				
	♥	32	4Z104B	20	2.94
	♥	32	4Z104G	10	2.94
	♥	32	4Z104W	20	2.94
	♥	40	5Z104B	30	3.02
	♥	40	5Z104G	30	3.02
	♥	40	5Z104W	30	3.02
	♥	50	2Z104B	10	6.02
	♥	50	2Z104G	5	6.02
	♥	50	2Z104W	5	6.02
	Expansion Socket – with solvent socket tail				
	♥	32	4Z124G	10	6.17
	♥	32	4Z124W	10	6.17
	♥	40	5Z124G	10	6.02
	♥	40	5Z124W	10	6.02
	♥	50	2Z124W	5	10.46
	Bends Knuckle Bend – 90°				
	♥	32	4Z160B	10	3.91
	♥	32	4Z160G	10	3.91
	♥	32	4Z160W	10	3.91
	♥	40	5Z160B	20	4.62
	♥	40	5Z160G	20	4.62
	♥	40	5Z160W	20	4.62
	♥	50	2Z160B	10	7.24
	♥	50	2Z160G	5	7.24
	♥	50	2Z160W	5	7.24

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Spigot Bend – 90°				
	♥	32	4Z260B	15	5.32
	♥	32	4Z260G	15	5.32
	♥	32	4Z260W	15	5.32
	♥	40	5Z260B	15	5.17
	♥	40	5Z260G	15	5.17
	♥	40	5Z260W	15	5.17
	♥	50	2Z260B	10	6.58
	♥	50	2Z260G	10	6.58
	♥	50	2Z260W	10	6.58
	Bend – 87.5°				
	♥	32	4Z161B	10	4.11
	♥	32	4Z161G	10	4.11
	♥	32	4Z161W	25	4.11
	♥	40	5Z161B	10	4.91
	♥	40	5Z161G	10	4.91
	♥	40	5Z161W	10	4.91
	♥	50	2Z161B	5	7.67
	♥	50	2Z161G	5	7.67
	♥	50	2Z161W	5	7.67
	Bend – 45°				
	♥	32	4Z163B	20	3.67
	♥	32	4Z163G	20	3.67
	♥	32	4Z163W	20	3.67
	♥	40	5Z163B	20	4.11
	♥	40	5Z163G	20	4.11
	♥	40	5Z163W	20	4.11
	♥	50	2Z163B	10	7.85
	♥	50	2Z163G	5	7.85
	♥	50	2Z163W	5	7.85
	Bend – 45° – male and female				
	♥	32	4Z263B	5	3.12
	♥	32	4Z263W	5	3.12
	♥	40	5Z263B	10	3.63
	♥	40	5Z263G	10	3.63
	♥	40	5Z263W	10	3.63
	Long Tail Bend – 87.5°	50	2Z359G	5	12.24
<hr/>					
	Tees				
	Tee – 87.5°				
	♥	32	4Z190B	10	4.87
	♥	32	4Z190G	10	4.87
	♥	32	4Z190W	10	4.87
	♥	40	5Z190B	5	5.13
	♥	40	5Z190G	5	5.13
	♥	40	5Z190W	5	5.13
	♥	50	2Z190B	10	10.58
	♥	50	2Z190G	5	10.58
	♥	50	2Z190W	5	10.58

OsmaWeld






ABS Solvent Weld Waste






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tee – 45°				
	♥	32	4Z210W	10	7.72
	♥	40	5Z210B	5	9.38
	♥	40	5Z210G	5	9.38
	♥	40	5Z210W	5	9.38
	♥	50	2Z210B	5	13.69
	♥	50	2Z210G	5	13.69
	♥	50	2Z210W	5	13.69
	Cross Tee Cross – 87.5°				
	♥	40	5Z230W	5	16.53
	♥	50	2Z230W	5	25.03
	Plug Access Plug				
	♥	32	4Z292B	10	4.06
	♥	32	4Z292G	5	4.06
	♥	32	4Z292W	5	4.06
	♥	40	5Z292B	15	4.27
	♥	40	5Z292G	15	4.27
	♥	40	5Z292W	15	4.27
	♥	50	2Z292B	5	7.55
	♥	50	2Z292G	5	7.55
	♥	50	2Z292W	5	7.55
Connectors and Adaptors					
	Straight Adaptor – Push fit to solvent weld				
	♥	32	4Z120W	10	4.29
	♥	40	5Z120W	10	4.29
	Straight Tank Connector				
	♥	32	4Z185W	10	10.24
	♥	40	5Z185W	5	10.61
	Universal Connector – for BS EN 1329, 1451, 1455 and 1566 pipe				
	♥	32	4W102B	10	6.04
	♥	32	4W102G	10	6.04
	♥	32	4W102W	10	6.04
	♥	40	5W102B	5	6.04
	♥	40	5W102G	5	6.04
	♥	40	5W102W	5	6.04
	♥	50	2W102G	10	5.81
	Male Cap and Liner – male threaded component				
	♥	32	4Z363W	10	6.31
	♥	40	5Z363W	10	6.31
	Female Cap and Liner – female threaded component				
	♥	32	4Z364G	1	4.10
	♥	32	4Z364W	5	4.10
	♥	40	5Z364W	5	4.62

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Female Iron Connector	32	4Z127W	5	8.61
	– solvent weld socket and BSPT socket	40	5Z127W	10	9.10
	Male Iron Connector				
	– SW/S and BSPT spigot				
	▽	32	4Z128W	5	8.13
	▽	40	5Z128W	10	8.61
	▽	50	2Z128W	5	10.72
Reducers					
	Socket Reducer	50	2Z088B	10	5.15
	– 2"/50mm x 1¼"/32mm	50	2Z088G	5	5.15
		50	2Z088W	5	5.15
	Socket Reducer	50	2Z086B	10	5.02
	– 2"/50mm x 1½"/40mm	50	2Z086G	5	5.02
		50	2Z086W	5	5.02
	Socket Reducer	40	5Z455B	10	2.76
	– 1½"/40mm x 1¼"/32mm	40	5Z455G	10	2.76
		40	5Z455W	10	2.76
	Waste to Overflow Reducer				
	– 32x21.5mm – solvent weld	32	1E344B	5	4.62
		32	1E344W	5	4.62
	– 40x21.5mm – solvent weld	40	1E346B	5	4.62
		40	1E346W	5	4.62
	Reducer to 21.5mm pipe				
	– synthetic rubber	32	4Z343G	10	3.52
	Reducer to 35mm copper pipe				
	– synthetic rubber	40	5Z344G	10	3.63
	Reducer				
	– 2"/50mm x 1¼"/32mm – synthetic rubber	50	2Z347G	5	6.74
	Reducer to 42mm copper pipe				
	– synthetic rubber	50	2Z349G	5	6.38
	Level Invert Reducer				
	– 1½"/40mm x 1¼"/32mm	40	5Z085B	5	3.67
		40	5Z085G	5	3.67
		40	5Z085W	5	3.67
Air Admittance Valve					
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	73.51
Fire Stop Seal					
	Fire Stop Seal				
	Fire Stop Seal – 50mm	50	2S001	1	226.90

Oasma Waste




PVC-C Solvent Weld Waste Pipe and Fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe P/E Pipe – 3.0m				
	▽	32	4M073B	10	22.59
	▽	32	4M073E	10	22.59
	▽	32	4M073W	10	22.59
	▽	40	5M073B	10	24.65
	▽	40	5M073E	10	24.65
	▽	40	5M073W	10	24.65
	▽	50	2M073B	5	37.91
	▽	50	2M073E	10	37.91
	▽	50	2M073W	5	37.91
	Bracket Pipe Bracket				
	▽	32	4M081B	40	1.04
	▽	32	4M081E	40	1.04
	▽	32	4M081W	20	1.04
	▽	40	5M081B	35	1.06
	▽	40	5M081E	35	1.06
	▽	40	5M081W	35	1.06
	▽	50	2M081B	10	2.14
	▽	50	2M081E	20	2.14
	▽	50	2M081W	10	2.14
 	Sockets Double Socket				
	▽	32	4M104B	10	4.25
	▽	32	4M104E	20	4.25
	▽	32	4M104W	10	4.25
	▽	40	5M104B	10	5.36
	▽	40	5M104E	20	5.36
	▽	40	5M104W	10	5.36
	▽	50	2M104B	5	8.70
	▽	50	2M104E	10	8.70
	▽	50	2M104W	5	8.70
	Expansion Socket – with solvent socket tail	32	4M124E	10	8.98
		32	4M124W	10	8.98
		40	5M124E	10	9.38
		40	5M124W	10	9.38
		50	2M124E	5	16.76
		50	2M124W	5	16.76
	Bends Knuckle Bend – 90°				
	▽	32	4M160B	30	6.35
	▽	32	4M160E	30	6.35
	▽	32	4M160W	30	6.35
	▽	40	5M160B	30	7.48
	▽	40	5M160E	30	7.48
	▽	40	5M160W	30	7.48
	▽	50	2M160B	5	13.35
	▽	50	2M160E	5	13.35
	▽	50	2M160W	5	13.35

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	7.77
	♥	32	4M161E	10	7.77
	♥	32	4M161W	10	7.77
	♥	40	5M161B	40	9.38
	♥	40	5M161E	40	9.38
	♥	40	5M161W	40	9.38
	♥	50	2M161B	5	13.04
	♥	50	2M161E	5	13.04
	♥	50	2M161W	5	13.04
	Bend – 45°				
	♥	32	4M163B	10	5.90
	♥	32	4M163E	10	5.90
	♥	32	4M163W	10	5.90
	♥	40	5M163B	20	6.63
	♥	40	5M163E	20	6.63
	♥	40	5M163W	20	6.63
	♥	50	2M163B	5	11.21
	♥	50	2M163E	5	11.21
	♥	50	2M163W	5	11.21
	Spigot Bend – 90°				
	♥	32	4M260B	5	8.21
	♥	32	4M260E	5	8.21
	♥	32	4M260W	5	8.21
	♥	40	5M260B	10	9.89
	♥	40	5M260E	10	9.89
	♥	40	5M260W	10	9.89
	♥	50	2M260B	5	14.71
	♥	50	2M260E	5	14.72
	♥	50	2M260W	5	14.72
	Tee				
	Tee – 87.5°				
	♥	32	4M190B	5	10.15
	♥	32	4M190E	5	10.15
	♥	32	4M190W	5	10.15
	♥	40	5M190B	15	11.57
	♥	40	5M190E	15	11.57
	♥	40	5M190W	15	11.57
	♥	50	2M190B	5	18.02
	♥	50	2M190E	5	18.02
	♥	50	2M190W	5	18.02
	Plug				
	Access Plug				
	♥	32	4M292B	5	6.28
	♥	32	4M292E	5	6.28
	♥	32	4M292W	5	6.28
	♥	40	5M292B	5	6.17
	♥	40	5M292E	5	6.17
	♥	40	5M292W	5	6.17
	♥	50	2M292B	5	10.73
	♥	50	2M292E	5	10.73
	♥	50	2M292W	5	10.73






Osma Waste

PVC-C Solvent Weld Waste Pipe and Fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	Reducer – 1½" / 40mm x 1¼" / 32mm				
	▽	40	5M455B	10	3.95
	▽	40	5M455E	10	3.95
	▽	40	5M455W	10	3.95
	Reducer – 2" / 50mm x 1¼" / 32mm				
	▽	50	2M458B	5	7.45
	▽	50	2M458E	5	7.45
	▽	50	2M458W	5	7.45
	Reducer – 2" / 50mm x 1½" / 40mm				
	▽	50	2M456B	5	7.45
	▽	50	2M456E	5	7.45
	▽	50	2M456W	5	7.45



Osma Waste

PP Push-fit Waste

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe P/E Pipe – 3.0 metre				
	♥	32	4W073B	10	9.69
	♥	32	4W073G	10	9.69
	♥	32	4W073W	10	9.69
	♥	40	5W073B	10	11.20
	♥	40	5W073G	10	11.20
	♥	40	5W073W	10	11.20
	♥	50	2W073G	5	18.84
	♥	50	2W073W	5	18.84
	Bracket Pipe Bracket				
		32	4W081B	30	0.97
		32	4W081G	30	0.97
		32	4W081W	30	0.97
		40	5W081B	30	0.91
		40	5W081G	30	0.91
		40	5W081W	30	0.91
		50	2W081G	20	1.60
		50	2W081W	20	1.60
	Socket Double Socket				
	♥	32	4W105B	15	3.18
	♥	32	4W105G	15	3.18
	♥	32	4W105W	15	3.18
	♥	40	5W105B	15	3.37
	♥	40	5W105G	15	3.37
	♥	40	5W105W	15	3.37
	♥	50	2W105G	5	5.71
	♥	50	2W105W	5	5.71
	Bends Knuckle Bend – 90°				
	♥	32	4W160B	10	2.93
	♥	32	4W160G	10	2.93
	♥	32	4W160W	10	2.93
	♥	40	5W160B	30	2.94
	♥	40	5W160G	30	2.94
	♥	40	5W160W	30	2.94
	♥	50	2W160G	5	5.71
	♥	50	2W160W	5	5.71
	Bend – 87.5°				
	♥	32	4W161B	10	3.18
	♥	32	4W161G	10	3.18
	♥	32	4W161W	10	3.18
	♥	40	5W161B	10	3.18
	♥	40	5W161G	10	3.18
	♥	40	5W161W	10	3.18

Osma Waste

PP Push-fit Waste












Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 45°				
	♥	32	4W163B	15	3.18
	♥	32	4W163G	15	3.18
	♥	32	4W163W	15	3.18
	♥	40	5W163B	20	2.93
	♥	40	5W163G	20	2.93
	♥	40	5W163W	20	2.93
	♥	50	2W163G	5	6.04
	Spigot Bend – 30°				
	♥	32	4W166B	10	2.93
	♥	32	4W166W	10	2.93
	♥	40	5W166B	5	2.93
	♥	40	5W166G	5	2.93
	♥	40	5W166W	5	2.93
	Spigot Bend – 90°				
	♥	32	4W260B	10	3.37
	♥	32	4W260G	10	3.37
	♥	32	4W260W	10	3.37
	♥	40	5W260B	10	3.37
	♥	40	5W260G	10	3.37
	♥	40	5W260W	10	3.37
	♥	50	2W260W	5	5.59
	Tee				
	Tee – 87.5°				
	♥	32	4W190B	15	3.37
	♥	32	4W190G	15	3.37
	♥	32	4W190W	15	3.37
	♥	40	5W190B	10	2.94
	♥	40	5W190G	10	2.94
	♥	40	5W190W	10	2.94
	♥	50	2W190G	5	5.59
	♥	50	2W190W	5	5.59
	Plug				
	Access Plug				
	♥	32	4W292B	5	3.18
	♥	32	4W292G	5	3.18
	♥	32	4W292W	5	3.18
	♥	40	5W292B	5	2.93
	♥	40	5W292G	5	2.93
	♥	40	5W292W	5	2.93
	♥	50	2W292G	10	5.71
	♥	50	2W292W	10	5.71

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors and Adaptors					
	Universal Connector				
	– for BS EN 1329, 1451, 1455 and 1566 pipe				
	♥	32	4W102B	10	6.04
	♥	32	4W102G	10	6.04
	♥	32	4W102W	10	6.04
	♥	40	5W102B	5	6.04
	♥	40	5W102G	5	6.04
	♥	40	5W102W	5	6.04
	Tank Connector				
	♥	50	2W102G	10	5.81
	♥	40	5W185B	5	3.76
Reducers					
	Reducer				
	– 1½" / 40mm x 1¼" / 32mm	40	5W084B	5	2.93
		40	5W084G	5	2.93
	Reducer				
	– 2" / 50mm x 1¼" / 32mm	40	5W084W	5	2.93
		50	2W088G	5	4.99
	Reducer				
	– 2" / 50mm x 1½" / 40mm	50	2W088W	5	4.99
		50	2W086G	5	5.59
	Reducer				
	32 x 21.5mm – Push-fit	50	2W086W	5	5.59
	40 x 21.5mm – Push-fit	32	1C344W	5	4.62
		40	1C346W	10	4.62
	Air Admittance Valve				
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	73.51
	Fire Stop Seal				
	Fire Stop Seal – 50mm	50	2S001	1	226.90

Osma Waste

Waste Connectors and V-Joint Traps






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexible Waste Pipe				
	Flexible Connector	32	4V901W	1	22.33
	450mm	40	5V901W	1	22.79
	Spigot Connector – 165mm to 290mm	40	5V902W	1	16.59
	Bottle Traps				
	Bottle Trap	32	4V809W	1	16.36
	– 38mm seal	40	5V809W	1	21.72
	Bottle Trap	32	4V812W	1	20.36
	– 75mm seal	40	5V812W	1	24.93
	Anti-Syphon Bottle Trap	32	4V814W	1	27.15
	– 75mm seal	40	5V814W	1	34.27
	Resealing Bottle Trap	32	4V816W	1	27.15
	– 75mm seal	40	5V816W	1	34.28
	Adjustable Bottle Trap	32	4V808W	1	29.41
	– 75mm seal	40	5V808W	1	35.28
	Tubular Traps				
	Tubular 'P' Trap	32	4V801W	1	15.59
	– 75mm seal	40	5V801W	1	17.74
		50	2V801W	1	46.13
	Tubular 'S' Trap	32	4V803W	1	19.08
	– 75mm seal	40	5V803W	1	28.59
					
	Adjustable Tubular 'P' Trap	32	4V807W	1	23.14
	– 75mm seal	40	5V807W	1	26.96
					
	Variform Trap	32	4V804W	5	29.26
	– 75mm seal				
					
	Running 'P' Trap	40	5V805W	1	31.29
	– 75mm seal	50	2V805W	1	54.38

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Through Trap – 75mm seal	32	4V825W	1	25.98
	Plumbing Kit 1 – to suit 1.5 or 2 bowl sink	40	5V408W	1	48.09
	Swivel 'P' Trap	32	4V811W	10	13.89
		40	5V811W	10	15.07
Bath Traps					
	Bath Trap – 38mm seal	40	5V802W	1	20.75
	Bath Trap – shallow seal	32	4V806W	1	16.95
		40	5V806W	1	14.08
	Bath Trap – 75mm seal	40	5V846W	1	26.31
	Bath Trap and Overflow – 75mm	40	5V848W	1	66.18
	Anti-Syphon Bath Trap	40	5V842W	1	28.89
	Bath Trap Extended Body – 60mm seal	40	5V860W	1	58.14
Shower Traps					
	Shower Trap – 19mm seal	40	5V823W	1	34.18
	Shower Trap – 50mm seal	40	5V824W	1	37.67

Osma Waste

Waste Connectors and V-Joint Traps

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Shower and Floor Gullies Shower Gully for Tiled Floor	50	2V500W	1	309.13
	Adaptor for 2V500 – to stainless steel	50	2V501G	1	61.33
	Shower Gully – sheet floor	50	2V510W	1	309.13
	Shower Gully – sheet floor stainless steel	50	2V511G	1	349.70
	Vinyl Floor Gully – 82mm outlet	82	2V411G	1	194.60
	Floor Gully – c/w stainless steel tile and grid	50	2V502G	1	110.57
	Floor Gully – c/w stainless steel tile and grid	82	2V412G	1	147.96
	Rubber Boss Adaptor * – 2" / 50 plastic or copper pipe	32	2S498B	10	9.19
		40	2S499B	10	9.19
		50	2S503B	10	9.58
	* for use with Osma 2V411, 2V412 and 2V502 Floor Gullies only				
	Stainless Steel Tile and Grid	-	2V414G	1	122.93
	Gully Funnel Bowl	-	2V415G	1	15.60
	Gully Extension Bowl	-	2V416G	1	15.60
	Gully Extension Piece	-	2V417G	1	10.24
	Gully Funnel	-	2V418G	1	20.56

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Washing Machine Sink Traps					
	Washing Machine Half Trap – 75mm seal	40	5V864W	1	31.43
	Adjustable Sink Trap – 75mm seal	40	5V869W	1	46.13
	Tubular Swivel Sink Trap – 40mm x 75mm (adjustable) with 19/22mm connection	40	5V407W	1	40.79
	Washing Machine Trap Kit Includes stand pipe and 2 brackets – 75mm seal	40	5V870W	1	26.87
	Washing Machine Tee Piece	40	5V871W	1	14.40
Ancillaries					
	Conversion Bend – 90° – for "P" Trap to convert to "S" Trap	32	4A830W	20	5.61
		40	5A830W	10	6.02
	Top Trap Washer	32	4V001W	50	1.82
		40	5V002W	50	1.82
	Bottle Trap Bowl Washer – for 4V809/4V812, 5V809/5V812	32	4V003W	50	2.23
		50	2V004W	50	2.23








Osmo Condensate

Condensate Drainage

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Soakaway Soakaway – 110mm OD with 21.5/32/40mm pipe connections	110	1V403G	1	87.72
Connectors and Adaptors					
	Pipe Clamp – 32/40mm waste and 21.5mm connection	21.5	1V402W	1	43.88
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection	40	5V407W	1	40.79
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle	40	5V468W	1	46.78
	Reducer – to 21.5mm pipe – synthetic rubber	32	4Z343G	10	3.52

Osma Overflow

ABS / PVC-U Solvent Weld and PP Push-fit

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe				
	3.0m Solvent	21.5	1E073W	10	7.14
	4.0m Push-fit	21.5	1C074W	10	8.48
	Pipe Clip				
	Solvent	21.5	1E082W	10	1.12
	Push-fit				
	Double Socket				
	Solvent	21.5	1E104W	30	3.19
	Push-fit	21.5	1C104W	10	3.19
	Bends				
	Solvent – 90°	21.5	1E160W	10	3.33
	Push-fit – 90°	21.5	1C160W	30	3.11
	Solvent – 45°	21.5	1E166W	10	3.81
	Push-fit – 45°	21.5	1C163W	20	3.81
	Solvent – 25°	21.5	1E163W	10	3.81
	Tee				
	Solvent – 90°	21.5	1E190W	5	4.10
	Push-fit – 90°	21.5	1C190W	5	4.46
	Tank Connectors				
	Straight Tank Connector	21.5	1E129W	5	4.99
	Bent Tank Connector				
	90° Solvent	21.5	1E139W	5	5.57
	90° Push-fit	21.5	1C139W	5	5.83
	– cut off bend to convert to straight connector				
	Reducers				
	Reducer Solvent Weld				
	32x21.5mm	32	1E344B	5	4.62
	32x21.5mm	32	1E344W	5	4.62
	40x21.5mm	40	1E346B	5	4.62
	40x21.5mm	40	1E346W	5	4.62
	Reducer Push-fit				
	32x21.5mm	32	1C344W	5	4.62
	40x21.5mm	40	1C346W	10	4.62


Osmo Overflow

ABS / PVC-U Solvent Weld and PP Push-fit

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Cap and Lining Cap and Lining	21.5	1E156W	20	4.62
	Tundish Tundish	21.5	1O149W	1	16.00
	Adaptors Compression Fitting Adaptor – straight – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O158W	10	3.19
	Compression Fitting Adaptor – 90° – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O159W	10	3.81





Osma HepvO Waste

Hygienic Self-Sealing Waste Valves – Polypropylene


Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	HepvO Hygienic Self Sealing Waste Valve				
	HepvO Valve	32 40	BV1 WH CV1 WH	10 10	29.17 29.17
	HepvO Knuckle Adaptor				
	HepvO 87.5° Knuckle Adaptor	32 40	BV11 WH CV11 WH	10 10	7.36 7.36
	HepvO Running Adaptor				
	For installing HepvO in a pipe run	32 40	BV3 WH CV3 WH	10 10	7.02 7.02
	HepvO Tundish Adaptor				
	HepvO Tundish Adaptor Kit	32	BV1/21 WH	5	39.44

Osma Problem Solvers

Flexible Waste Pipe




Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexible Waste Pipe – Smooth Bore – use with Spigot Connectors				
	3.0m	32	FBP3 WH	1	27.24
	3.0m	40	FCP3 WH	1	27.24
	6.0m	32	FBP6 WH	1	54.44
	6.0m	40	FCP6 WH	1	54.44
	Spigot Connectors – To Push-fit Waste	40	FCW6 WH	1	2.41
	– To Solvent Weld Waste				
		32	FSBW6 WH	10	2.41
		40	FSCW6 WH	10	2.41
	Flexible Waste Connector – Spigot : Spigot				
	Effective length				
	Fabricated length				
	– To Push-fit Waste 365	40	FCW30 WH	1	12.73
	Fabricated length				
	– To Solvent Weld Waste 365	40	FSCW30 WH	1	12.73

Flexible Soil Pipe

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexible Pan Connector – Long	110	S170 WH	1	45.00
	Nominal length 280mm, nominal extended length 920mm				
	Flexible Pan Connector – Short	110	S171 WH	1	43.14
	Nominal length 230mm, nominal extended length 670mm				
	Flexible Pan Connector – Extra Short	110	S172 WH	1	41.28
	Nominal length 195mm, nominal extended length 410mm				

Osma Problem Solvers

Condensate Fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Overflow to Waste Clamp For connection to 32mm or 40mm Push-fit or Solvent Weld pipe	21.5	AO21 BL	1	16.02
	Overflow to Soil Adaptor For 32mm or 21.5mm connection to 110mm soil pipe	21.5	S117 GR	1	12.28
		21.5	S117 BL	1	12.28
	Condensate Soakaway	21.5	S951 BL	1	32.60

Introduction to

Wavin Industrial and Commercial Systems

Wavin’s range of hot and cold plumbing and soil and waste systems have been designed for industrial and commercial applications.

The range includes Wavin AS acoustic soil, ideal for multi-residential projects and Wavin Osma compact soil for when space is at a premium.

Wavin’s industrial and commercial range is backed up by dedicated expert support for specifiers and contractors.

Products are available in packs or as singles.

Key to abbreviations

B	Black	E	Olive
G	Grey	W	White

- P/E – Pipe and fittings with both ends plain or with one plain end and one special end.
- S/S – Pipe and fittings with one or more ring-seal or push-fit sockets, but always one plain or special end.
- D/S – Fittings with ring-seal or push-fit sockets at all ends.
- S/SW – Fittings with one or more ring-seal sockets but always one solvent socket.
- SW/S – Fittings with one or more solvent sockets and one plain or special end.
- D/SW – Fittings with solvent sockets at all ends.

Symbols

-  **British Standards Kitemark**
Identifies pipe and fittings manufactured under the BSI Kitemark Certification Scheme.
-  **British Board of Agrément**
BBA Logo Identifies non-Kitemarked fittings covered by a British Board of Agrément Certificate.
-  **WRAS Water Regulations Advisory Scheme**
Identifies pipe and fittings that are WRAS approved.
- BRE Building Research Establishment**
BRE identifies products that have attained BRE approval.
- WIS Water Industry Specification**
WIS identifies products that conform to Water Industry Specifications.

Acceptance

a) British Standards Institution

♥ Wavin Systems comply, where applicable, with the requirements of the following British Standards:

BS EN 1566-1: 2000 – Plastic piping systems for soil and waste discharge (low and high temperature) within the building structure – Chlorinated poly (vinyl chloride) (PVC-C).

ABS pipe clips to BS EN 1455.

BS EN 1453-1:2000 – Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings. Unplasticized poly (vinyl chloride) (PVC-U). Specifications for pipes and the system.

BS EN 1329: 2001 – Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Unplasticized poly(vinyl chloride) (PVC-U). Specifications for pipes, fittings and the system.

BS EN 1451-1: 2000 – Polypropylene waste pipe and fittings.

BS 6209: 1982 – Solvent cement for non pressure thermoplastics pipe systems.

BS EN 12380:2002 – Air admittance valves for drainage systems.

Requirements, test methods and evaluation of conformity.

b) LABC

Wavin AS Acoustic Soil is System Type Approved to Cert. No. 377-9-7038, Tested in accordance with BS EN 1451.

c) DIN

Wavin AS Acoustic Soil conforms with the acoustic requirements for pipework laid down in DIN 4109, achieving a sound performance of under 30dB (A) at 2l/s.

Wavin AS Acoustic Soil also has worldwide approvals in Germany, Denmark, Norway, Sweden, Australia, Turkey and Poland.

d) British Board of Agrément

The system has been awarded the following certificates:

86/1643 110 and 40 Air Admittance Valves.

89/2174 110mm Adjustable Bends.

e) ♥WRAS











Hep₂O is approved (certificate 1312005) – deemed safe for use in the supply of drinking water.

The Silicone Lubricant Spray has WRAS approval for use with potable water.









Important note: Fittings of all product ranges must be ordered in their pack multiples as illustrated in price list.

Wavin AS

Acoustic Soil System – Astolan® and PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe				
	3.0m	110	3003325	1	82.38
	3.0m	160	3003331	1	163.30
	S/S Pipe				
	3.0m	110	3012211	1	85.28
	0.15m	110	3074619	12	29.04
	0.15m	160	3074622	6	48.77
	2.0m	110	3003362	1	66.70
Couplers					
	Compensator Socket	110	3074603	12	20.11
		160	3074606	8	38.83
	D/S Sleeve	110	3074610	12	13.92
		160	3074612	6	40.55
Reducer					
	Single Socket Reducer 160/110	160	3074698	6	26.82
Bends					
	S/S Bend				
	15°	110	3074637	10	19.55
		160	3074647	6	44.35
	30°	110	3074638	9	20.88
		160	3074648	5	45.58
	45°	110	3074639	12	22.04
		160	3074649	4	46.85
	67°	110	3074640	7	22.34
	87°	110	3074641	6	22.92
		160	3074650	4	50.31
Branches					
	S/S Equal Branch				
	45°	110	3074673	4	37.17
	45°	160	3074681	1	105.22
	67°	110	3074674	4	61.21
	87°	110	3074713	4	66.65
	S/S Unequal Branch				
	45°	160	3074680	2	76.23
	S/S Double Branch 87°	110	3074715	3	124.70
	S/S Corner Branch 87°	110	3074684	5	179.81

Note: Wavin AS is available in light grey.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/S WC Manifold Branch				
	Straight	110	3020490	1	135.94
	8° left hand	110	3020491	1	135.94
	15.5° left hand	110	3020492	1	135.94
	23° left hand	110	3020493	1	135.94
	30.5° left hand	110	3020494	1	135.94
	38° left hand	110	3020495	1	135.94
	8° right hand	110	3020496	1	135.94
	15.5° right hand	110	3020497	1	135.94
	23° right hand	110	3020498	1	135.94
	30.5° right hand	110	3020499	1	135.94
	38° right hand	110	3020500	1	135.94
	Access Pipe				
	S/S Access Pipe	110	3074687	4	45.99
		160	3074689	2	109.12
	Waste Connections				
	Single Boss Pipe Spigot Tail				
	32mm	110	3020506	4	27.89
	40mm	110	3020507	4	37.05
	50mm	110	3020508	1	39.84
	Soil Manifold	110	3065902	1	67.45
	All-Fit Reducer – 40:32mm	40	4Z124W•	10	6.17
	– 1½" / 40 x 1¼" / 32 for use with 3065902				
	All-Fit Reduction Bend – 50:40mm	50	2S355W•	10	10.21
	– 2" / 50 x 1½" / 40 for use with 3065902				
	All-Fit 90° Spigot Bend – 50mm	50	2S356W•	5	16.81
	– 2" / 50 for use with 3065902				
	Adaptor to Cast Iron				
	Connector to Cast Iron	110	4006566	1	17.64
		160	4006568	1	66.09












Wavin AS

Acoustic Soil System – Astolan® and PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stop-End Socket Plug	110	3074704	12	13.38
		160	3074706	7	49.25
	Safety Clip For Socket Plug	110	4006571	1	155.86
		160	4006573	1	397.78
	Fire Collars Fire Collar	110	3020509	1	108.06
		160	3020513	1	183.01
	Accessories Pipe Bracket	110	3020510	25	9.90
		160	3020514	10	15.31
	M10 x 80mm Bolt	110	3020511	50	13.57
	Spare Seals/Gaskets Spare Sealing Ring	110	4006583	1	1.72
		160	3000177	1	4.24
	Spare Collar	110	4006554	1	8.82
		160	4006556	1	20.43

Osma Compact













PVC-U Solvent Soil










	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
  	Pipe				
	P/E Pipe – 3.0m	110	4S073E	2	67.92
	P/E Pipe – 4.0m	82	3S074G	2	105.23
		110	4S074E	2	90.55
		160	6S074E	2	316.81
Brackets					
	Pipe Bracket	82	3S082G	5	8.09
		110	4S082E	20	6.92
		160	6S082E	1	25.39
	Socket Bracket	82	3S083G	5	10.48
		110	4S083E	5	8.98
	Pipe or Socket Bracket – BZP coated steel	82	3S084	10	19.58
		110	4S084	10	19.98
		160	6S084	1	42.16
Suspended Bracketing System (Not suitable for damp inaccessible voids)					
	Adjustable Pipe Bracket Assembly (pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110	4S086	1	64.95
		160	6S086	1	92.59
	Adjustable Socket Bracket and Brace Assembly (pack containing threaded rod, threaded bracket, bracket plate, two adjustable braces and pipe/socket bracket) – BZP coated steel	110	4S085	1	133.68
		160	6S085	1	156.97
Sockets					
	D/SW Double Socket	110	4S104E	10	15.23
		160	6S104E	1	36.87
	S/SW Single Socket	82	3S124G	5	17.74
		110	4S124E	5	15.85
		160	6S124E	5	54.24
	D/S Acoustic Socket	110	4S125E	5	24.07

Note: ♻️ Recycore Technology applies to 110mm and 160mm sizes only.

Osma Compact










PVC-U Solvent Soil







Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	SW/S Reducer				
	110mm x 50mm	110	4S496E	5	31.57
	160mm x 110mm	160	6S499E	1	59.51
	Expansion Cap				
	Expansion Cap	110	4S416E	5	7.34
	– with integral ring–seal	160	6S416E	5	18.89
   	Bends				
	D/SW Bend				
	87.5°	110	4S461E	5	41.26
		160	6S461E	1	108.69
	45°	110	4S463E	5	41.21
		160	6S463E	1	111.33
	SW/S Bend				
	45°	110	4S263E	5	44.63
	11.25°	110	4S268E	5	43.06
	SW/S Long Tail Bend – 87.5°	110	4S260E	5	47.41
  	Offset Bends				
	SW/S Offset Bend – 67.5° (Bottom)				
		82	3S435G	5	37.55
		110	4S435E	5	39.17
	S/SW Offset Bend – 67.5° (Top)				
		82	3S440G	5	44.30
		110	4S440E	5	53.72
	D/SW Offset Bend – 67.5° (Top)				
		110	4S450E	5	43.70
 	Boss Adaptors				
	Solvent Weld – 90°				
		40	2CS812SE	10	9.25
		50	2CS813SE	10	13.14
	Solvent Weld – Straight				
		32	2CS814SE	10	7.71
		40	2CS815SE	10	7.12
		50	2CS816SE	10	8.49

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Branches					
	D/SW Double 2-Boss Branch – 87° ♥	110	4CS829SE	1	146.01
	SW/S Double 2-Boss Branch – 87.5° ♥	110	4CS831SE	1	146.01
	D/SW Double 4-Boss Branch – 87.5° ♥	110	4CS832SE	1	146.01
	SW/S Double 4-Boss Branch – 87.5° ♥	110	4CS834SE	1	146.01
	SW/S Corner Branch – 87.5° ♥	110	4CS491SE	1	258.39
Access Branch					
	D/SW 2-Boss Access Branch – 87.5° ♥	110	4CS893SE	1	110.69
Single Branches					
	D/SW Single Branch 45° ♥	110	4S410E	5	65.94
	SW/S Single 3-Boss Branch – 87.5° ♥	110	4CS889SE	1	60.11
	D/SW Single 3-Boss Branch – 87.5° ♥	110	4CS890SE	5	58.33
	S/SW Single 3-Boss Branch – 87.5° ♥	110	4CS892SE	5	58.36
	D/SW Single Branch – 87.5° (No Bosses) ♥	160	6S490E	1	185.58

Osma Compact








PVC-U Solvent Soil

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Single 5-Boss Branches SW/S Single 5-Boss Branch – 87.5° ♥	110	4CS895SE	5	60.71
		110	4CS897SE	1	60.71
	Soil Manifolds 6 Boss Manifold	110	4S597E	1	65.99
	Bossed Pipes D/SW Short 3-Boss Pipe ♥	110	4CS588SE	1	15.08
		110	4CS586SE	1	20.17
		110	4CS585SE	5	20.17
		110	4S483E	5	18.13
	– for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S484E	5	18.13
	Strap Boss Strap Boss ♥	110	4CS319SE	5	14.07
	Access Fittings D/SW Access Bend – 87.5° ♥	110	4S469E	5	103.99









	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/SW 3-Boss Access Pipe – with screwed access and three boss sockets ♥	110	4CS474SE	5	73.29
	SW/S 3-Boss Access Pipe – with screwed access and three boss sockets ♥ ♥	110 160	4CS574SE 6CS474SE	5 5	73.29 156.77
Plugs					
	P/E Access Plug ♥ ♥	82 110	3S292G 4S292E	5 1	35.05 32.81
	SW/S Access Plug ♥	110	4S492E	5	41.32
	P/E Socket Plug – with one boss socket ♥	110	4S296E	5	23.13
Terminal Fittings					
	Balloon Grating	82 110	3S302G 4S302E	5 5	12.76 9.71
	Weathering Collar	82 110	3S300G 4S300E	5 5	15.40 14.37
	SW/S Vent Cowl ♥	110	4S310E	1	49.06
Roof Outlets					
	SW/S Domed Roof Outlet	82 110	3S414G 4S414G	1 1	123.44 136.95

Osma Compact

PVC-U Ring-Seal Soil








Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
 	Pipe				
	S/S Pipe – 3.0m	82	3S043G	2	80.67
	♻️	160	6S043E	10	262.97
	S/S Pipe – 4.0m	82	3S044G	2	105.64
	♻️	110	4S044E	2	95.25
	♻️ ♻️				
Sockets					
	D/S Double Socket – for repairs	82	3S105G	5	30.44
	♻️	110	4S105E	1	32.86
	♻️	160	6S105E	1	92.59
	♻️				
Connectors					
	S/S Connector to CI or clay drain socket	110	4S107E	5	27.57
	♻️				
Reducers					
	S/S Reducer	82	3S094G	5	37.19
	82mm x 50mm				
	110mm x 50mm	110	4S096E	5	35.00
	♻️				
	110mm x 82mm	110	4S095E	5	32.09
	♻️				
	160mm x 110mm	160	6S099E	1	82.16
	♻️				
Bends					
	S/S Bend				
	87.5°	82	3S161G	5	36.04
	♻️	110	4S161E	5	41.96
	67.5°	82	3S162G	5	44.93
	♻️				
	45°	82	3S163G	5	36.04
	♻️				
Adjustable Bends					
	S/S Adjustable Bend – 30°	110	4S173E	1	52.71
	♻️				

Note: ♻️ Recycore Technology applies to 110mm and 160mm sizes only.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Boss Adaptors					
	Push-fit – 90°				
	♥	32	2CS801SE	10	13.14
	♥	40	2CS802SE	10	13.14
	Push-fit – Straight				
	♥	32	2CS804SE	10	7.71
	♥	40	2CS805SE	10	7.71
Branches					
	S/S Double 2-Boss Branch – 87.5°				
	♥	110	4CS830SE	1	148.11
Variable 6-Boss Branch					
	S/S 110mm Variable 6-Boss Branch				
	– 87.5°				
	♥	110	4CS852SE	5	123.80
Single Branches					
	S/S Single 2-Boss Branch – 87.5°				
	♥	82	3CS190SG	5	64.13
	S/S Single 3-Boss Branch – 87.5°				
	♥	110	4CS891SE	5	59.23
Single 5-Boss Branches					
	S/S Single 5-Boss Branch – 87.5°				
	♥	110	4CS896SE	5	76.77
Unequal Single 5-Boss Branch					
	D/S Unequal Single 5-Boss Branch				
	– 87.5°				
	♥	160	6CS897SE	1	143.18
Unequal Junctions					
	S/S Unequal Junction 45°				
	♥	160	6CS218SE	1	256.64






Osma Compact

PVC-U Ring-Seal Soil

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Manifolds Soil Manifold System ♥	110	4S595E	1	72.56
	 All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 4S595	40	4Z124W	10	6.17
	 All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 4S595	50	2S355W	10	10.21
	 All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 4S595	50	2S356W	5	16.81
	Bossed Pipes S/S Bossed Pipe – plain with one boss socket ♥	82	3CS649SG	10	34.40
	 S/SW Bossed Pipe – plain (four boss sockets) ♥	110	4CS590SE	5	29.23
	Access Fittings S/S Access Pipe – no bosses ♥	82	3S274G	5	70.81






Osma Compact


PVC-C Solvent Weld Waste

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 3.0m				
	♥	32	4M073B	10	22.59
	♥	32	4M073E	10	22.59
	♥	32	4M073W	10	22.59
	♥	40	5M073B	10	24.65
	♥	40	5M073E	10	24.65
	♥	40	5M073W	10	24.65
	♥	50	2M073B	5	37.91
	♥	50	2M073E	10	37.91
	♥	50	2M073W	5	37.91
	Bracket				
	Pipe Bracket				
	♥	32	4M081B	40	1.04
	♥	32	4M081E	40	1.04
	♥	32	4M081W	20	1.04
	♥	40	5M081B	35	1.06
	♥	40	5M081E	35	1.06
	♥	40	5M081W	35	1.06
	♥	50	2M081B	10	2.14
	♥	50	2M081E	20	2.14
	♥	50	2M081W	10	2.14
	Sockets				
	Double Socket				
	♥	32	4M104B	10	4.25
	♥	32	4M104E	20	4.25
	♥	32	4M104W	10	4.25
	♥	40	5M104B	10	5.36
	♥	40	5M104E	20	5.36
	♥	40	5M104W	10	5.36
	♥	50	2M104B	5	8.70
	♥	50	2M104E	10	8.70
	♥	50	2M104W	5	8.70
	Expansion Socket				
	– with solvent socket tail				
	♥	32	4M124E	10	8.98
	♥	32	4M124W	10	8.98
	♥	40	5M124E	10	9.38
	♥	40	5M124W	10	9.38
	♥	50	2M124E	5	16.76
	♥	50	2M124W	5	16.76
	Bends				
	Knuckle Bend – 90°				
	♥	32	4M160B	30	6.35
	♥	32	4M160E	30	6.35
	♥	32	4M160W	30	6.35
	♥	40	5M160B	30	7.48
	♥	40	5M160E	30	7.48
	♥	40	5M160W	30	7.48
	♥	50	2M160B	5	13.35
	♥	50	2M160E	5	13.35
	♥	50	2M160W	5	13.35

Osma Compact













PVC-C Solvent Weld Waste







Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	7.77
	♥	32	4M161E	10	7.77
	♥	32	4M161W	10	7.77
	♥	40	5M161B	40	9.38
	♥	40	5M161E	40	9.38
	♥	40	5M161W	40	9.38
	♥	50	2M161B	5	13.04
	♥	50	2M161E	5	13.04
	♥	50	2M161W	5	13.04
	Bend – 45°				
	♥	32	4M163B	10	5.90
	♥	32	4M163E	10	5.90
	♥	32	4M163W	10	5.90
	♥	40	5M163B	20	6.63
	♥	40	5M163E	20	6.63
	♥	40	5M163W	20	6.63
	♥	50	2M163B	5	11.21
	♥	50	2M163E	5	11.21
	♥	50	2M163W	5	11.21
	Spigot Bend – 90°				
	♥	32	4M260B	5	8.21
	♥	32	4M260E	5	8.21
	♥	32	4M260W	5	8.21
	♥	40	5M260B	10	9.89
	♥	40	5M260E	10	9.89
	♥	40	5M260W	10	9.89
	♥	50	2M260B	5	14.71
	♥	50	2M260E	5	14.72
	♥	50	2M260W	5	14.72
Tees					
	Tee – 87.5°				
	♥	32	4M190B	5	10.15
	♥	32	4M190E	5	10.15
	♥	32	4M190W	5	10.15
	♥	40	5M190B	15	11.57
	♥	40	5M190E	15	11.57
	♥	40	5M190W	15	11.57
	♥	50	2M190B	5	18.02
	♥	50	2M190E	5	18.02
	♥	50	2M190W	5	18.02
Plug					
	Access Plug				
	♥	32	4M292B	5	6.28
	♥	32	4M292E	5	6.28
	♥	32	4M292W	5	6.28
	♥	40	5M292B	5	6.17
	♥	40	5M292E	5	6.17
	♥	40	5M292W	5	6.17
	♥	50	2M292B	5	10.73
	♥	50	2M292E	5	10.73
	♥	50	2M292W	5	10.73

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Reducers					
	Reducer				
	1½" / 40mm x 1¼" / 32mm				
	♥	40	5M455B	10	3.95
	♥	40	5M455E	10	3.95
	♥	40	5M455W	10	3.95
	2" / 50mm x 1¼" / 32mm				
	♥	50	2M458B	5	7.45
	♥	50	2M458E	5	7.45
	♥	50	2M458W	5	7.45
	2" / 50mm x 1½" / 40mm				
	♥	50	2M456B	5	7.45
	♥	50	2M456E	5	7.45
	♥	50	2M456W	5	7.45

Osma Compact

Accessories – WC Connectors

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
WC Manifold Branches (for WC to BS 5503)					
	S/SW Manifold Branch – Straight ▽	110	4S601W	1	209.09
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	209.09
	(RH) ▽	110	4S612W	1	209.09
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	209.09
	(RH) ▽	110	4S613W	1	209.09
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	209.09
	(RH) ▽	110	4S614W	1	209.09
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	209.09
	(RH) ▽	110	4S615W	1	209.09
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	209.09
	(RH) ▽	110	4S616W	1	209.09
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	31.77
	SW/S WC Connector – 2.5° ▽	110	4S792W	5	33.61
	P/E WC Connector – 14° ▽	110	4S711W	5	37.67
	P/E WC Connector – 90° ▽	110	4S771W	10	53.89
	SW/S WC Connector – 90° ▽	110	4S772W	10	46.77

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
WC Connectors and Gaskets (for WCs to BS 1213) SW/S WC Connector – 87.5° 		110	4S745W	5	41.78
WC Gasket – for WC spigots from 4" to 4¼" 		110	4S121W	10	19.33
WC Gasket – for WC spigots from 4¼" to 4½" 		110	4S120W	10	18.13
WC Connectors – Ancillaries S/S Long Tail Bend – 87.5° 		110	4S790W	5	53.72
P/E Pipe – 600mm length 		110	4S600W	1	30.48
 					

Osma Compact

Accessories – WC Connectors: Easy-fit

Description		Nom dia inch	Cat no	Pack qty	Price £ per piece
Easy-Fit Pan Connectors					
	Style 1 – Straight	3½in	WC003W	1	22.74
		4in	WC004W	1	16.85
	Style 1 – Offset	4in	WC204W	1	20.67
	Style 1 – 14°	4in	WC144W	1	21.75
	Style 90°	4in	WC904W	1	24.16
	Straight Extension Piece	4in	WC404W	1	20.71




Osma Compact

Accessories

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Air Admittance Valves					
	OsmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe 	40	4S303W	1	73.51
	OsmaVent Air Admittance Valve – can also be adapted to fit 82mm soil 	110	4S304W	1	166.13
Pipe Flashings					
	VariPitch Pipe Flashing – 400mm x 400mm – for flat roofs		4S281G	5	132.13
	– 450mm x 450mm – for pitched roofs		4S283G	5	127.28
Connectors					
	Internal Drain Connector – for 32mm/40mm waste pipe	110	4S298	5	16.08
	– for 50mm waste pipe	110	4S299	5	18.52
Fire Stop Seal					
	Fire Stop Seal	50	2S001	1	226.90
		82	3S001	1	290.34
		110	4S001	1	287.33
Female Iron Connector					
	– solvent weld socket and BSPT socket	32	4Z127W	5	8.61
		40	5Z127W	10	9.10
Male Iron Connector					
	– SW/S and BSPT spigot   	32	4Z128W	5	8.13
		40	5Z128W	10	8.61
		50	2Z128W	5	10.72
Spares					
	Snap Cap	82	3S116G	1	2.11
	T Ring Seal	82	3S130G	5	3.44
Cleaners, Solvent Cements, Lubricants					
	Degreasing Cleaner No.1 – 250ml can	–	4S380G	10	17.46












Osma Compact

Accessories

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Solvent Cement No. 2 – 250ml can ♥	–	4S384G	10	27.23
	– 500ml can ♥	–	4S385G	10	59.27
	Silicone Lubricant – 50g tube	–	4S391G	5	22.73
	Silicone Lubricant Spray – 400ml can	–	4S392	1	39.56









Osma Compact

Water Seal Traps

	Description	Nom Dia mm	Cat No	Pack Qty	Price Each £
Tubular Traps					
	Tubular 'P' Outlet – Fixed 19mm shallow seal	32	4V806W	1	16.95
		40	5V806W	1	14.08
	Tubular 'P' Outlet – Lowline bath 50mm seal	40	5V802W	1	20.75
	Bottle 'P' Outlet – Top entry shower chrome waste 50mm seal	40	5V824W	1	37.67
	Tubular 'P' Outlet – Swivel, 76mm seal	32	4V801W	1	15.59
		40	5V801W	1	17.74
	Tubular 'P' Outlet – Swivel, 76mm seal c/w cleaning eye	40	5V846W	1	26.31
	Tubular 'P' Outlet – Swivel, 76mm seal telescopic maximum 40mm extension	40	5V807W	1	26.96
	Tubular 'Running' – Swivel, 76mm seal	40	5V805W	1	31.29
		50	2V805W	1	54.38
	Tubular 'S' Outlet – Swivel, 76mm seal	32	4V803W	1	19.08
		40	5V803W	1	28.59
	Pedestal Trap – Fixed, 76mm seal	32	4V825W	1	25.98
	Bottle 'P' Outlet 38mm seal	32	4V809W	1	16.36
		40	5V809W	1	21.72
	Bottle 'P' Outlet 76mm seal	32	4V812W	1	20.36
		40	5V812W	1	24.93











Osma Compact

Water Seal Traps

	Description	Nom Dia mm	Cat No	Pack Qty	Price Each £
	Bottle 'P' Outlet – 76mm seal telescopic maximum 100mm extension	40	5V808W	1	35.28
	Bottle 'P' Anti-Syphon – 76mm seal	32 40	4V814W 5V814W	1 1	27.15 34.27
	Washing Machine Traps Washing Machine Trap Kit – 76mm seal c/w 0.6m pipe	40	5V870W	1	26.87
	Washing Machine Half Trap – Swivel 76mm seal	40	5V864W	1	31.43
	Washing Machine Tee	40	5V871W	1	14.40
	Cap and Lining Cap and Lining – BSP Male Iron Tail Unequal ends, 1 1/4"– 32mm to 1 1/2"– 40mm ♥	32	4Z363W	10	6.31
	Unequal ends, 1 1/2"– 40mm to 1 1/4"– 32mm ♥	40	5Z363W	10	6.31
	Spigot Bend Spigot Bend – 87.5° – Varifix socket to convert 'P' to 'S' outlet	32 40	4A830W 5A830W	20 10	5.61 6.02
	Shower Gully – for sheet flooring	50	2V510W	1	309.13





Osma Compact

Overflow

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe P/E Pipe – 3.0m solvent	21.5	1E073W	10	7.14
	Pipe Clip Solvent	21.5	1E082W	10	1.12
	Double Socket Solvent	21.5	1E104W	30	3.19
	Bends Solvent				
	90°	21.5	1E160W	10	3.33
	45°	21.5	1E166W	10	3.81
	25°	21.5	1E163W	10	3.81
	Tee Solvent – 90°	21.5	1E190W	5	4.10
	Tank Connectors Straight Tank Connector	21.5	1E129W	5	4.99
	Bent Tank Connector – 90° Solvent	21.5	1E139W	5	5.57
	Reducers Solvent				
	32 x 21.5mm reducer	32	1E344W	5	4.62
	40 x 21.5mm reducer	40	1E346W	5	4.62
	Cap and Lining Cap and Lining	21.5	1E156W	20	4.62
	Tundish Tundish	21.5	1O149W	1	16.00





Osma Compact

Condensate Drainage

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Soakaway – 110mm OD with 21.5/32/40mm pipe connections	110	1V403G	1	87.72
	Connectors and Adaptors Pipe Clamp – 32/40mm waste and 21.5mm connection	21.5	1V402W	1	43.88
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection	40	5V407W	1	40.79
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle	40	5V468W	1	46.78

Wavin HDPE








Soil, Waste and Vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	PE Pipe – 3.0m	110	3075609	1	34.04
	PE Pipe – 5.0m	40	3003465	1	16.12
		50	3003466	1	19.10
		56	3003477	1	22.49
		63	3003467	1	26.28
		75	3003468	1	30.38
		90	3003458	1	45.27
		110	3003459	1	56.74
		125	3003460	1	81.62
		160	3003461	1	127.55
		200	3003462	1	170.12
		250	3003463	1	270.97
		315	3003464	1	421.20
	Reducers				
	Concentric Reducer	56/50	3003820	20	2.73
		63/56	3003798	20	2.71
		110/56	3003858	10	4.96
		110/63	3003808	10	5.00
		110/75	3003809	10	5.00
		110/90	3003810	10	4.96
		125/110	3003815	10	7.96
		160/110	3003816	5	8.83
		200/160	3018808*	1	56.17
		250/200	3018809*	1	147.60
		315/250	3018810*	1	204.47
	Eccentric Reducer	50/40	3003821	20	2.93
		56/50	3003841	20	3.20
		75/40	3003824	20	3.86
		75/50	3003825	20	3.88
		75/56	3003843	20	3.87
		75/63	3003826	20	3.88
		90/63	3003828	20	5.19
		90/75	3003829	20	5.23
		110/40	3003830	20	5.67
		110/50	3003831	20	5.53
		110/56	3003835	20	5.65
		110/63	3003832	20	5.67
		110/75	3003833	20	5.68
		110/90	3003834	20	5.64
		160/110	3003839	5	12.38
		160/125	3003840	5	12.39
	Eccentric Reducer – Long	200/110	3003846	5	90.81
		200/125	3003847	1	89.96
		200/160	3003848	1	89.96
		250/200	3070632*	1	143.37
		315/200	3014918*	1	204.47
		315/250	3003856*	1	203.62







Note: * = Segment Welded.

Wavin HDPE

Soil, Waste and Vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Elbows				
	Elbow 15°	110	3017993	20	20.46
		160	3043453	1	34.54
		200	3043454	1	39.76
		250	3043455	1	65.18
	Elbow 30°	315	3043457	1	93.48
		110	3003576	20	20.78
		160	3003584	5	31.77
	Elbow 45°	40	3003561	10	2.21
		50	3003565	10	2.24
		56	3003597	20	2.66
		63	3003569	20	3.38
		75	3003572	20	4.29
		90	3003574	20	6.22
		110	3003577	25	6.09
		125	3003582	10	9.98
		160	3003585	5	25.94
		200	3003588	5	72.12
	Elbow 45° Long Tail	250	3018821*	1	117.91
		315	3018822*	1	162.98
		110	3075824	6	7.49
	Elbow 88.5°	40	3003563†	10	2.23
		50	3003567†	10	2.99
		56	3003598	20	2.99
		63	3003570†	20	3.73
		75	3003573†	20	5.29
		90	3003575	20	7.54
		110	3003579†	20	8.17
		125	3003583†	10	13.10
	Elbow 90° Welded	160	3003587†	5	33.61
		160	3003943	10	25.29
	Elbow 90° Segment Welded	200	3018818*	1	124.76
		250	3017978*	1	208.20
		315	3018819*	1	303.84




Note: * = Segment welded, † = Swept type.

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Elbow 90° Extended</p>	40	3003940	10	2.21
	50	3003600	10	2.64
	56	3003944	20	3.17
	75	3003622	25	5.64
	90	3003602	25	7.54
	110	3003603	20	7.49
 <p>Airmix HDPE Airmix "sovent"</p>	110	3003791	23	89.80
	160	4042219	10	306.58
<p>Branches</p>				
 <p>Swept Branch 88.5°</p>	110	3003792	10	12.44
 <p>Double Branch 45°</p>	110/110	3003728	5	20.60
 <p>Y-Branch 30°</p>	110/110	3003753	5	17.91
 <p>Branch 45°</p>	40/40	3003627	40	5.44
	50/40	3003631	10	5.64
	50/50	3003629	40	5.61
	56/56	3003724	20	5.33
	63/63	3003633	20	5.88
	75/56	3003649	20	6.58
	75/75	3003641	20	6.55
	110/50	3003666	10	11.22
	110/56	3003674	10	10.87
	110/63	3003668	10	11.22
	110/75	3003670	10	11.33
	110/110	3003662	15	11.40
	125/63	3003679	10	14.97
	125/110	3003685	10	14.97
	125/125	3003676	5	15.12
	160/110	3003688	5	52.06
	160/125	3003690	5	52.11
	160/160	4009725	5	51.39
	200/110	3070633*	5	112.05
	200/160	3070634*	5	117.02








Note: * = Segment Welded.

Wavin HDPE

Soil, Waste and Vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Branch 45° – continued	200/200	3070630*	5	168.01
		250/110	3003705*	1	187.55
		250/160	3003709*	1	207.54
		250/200	3003710*	1	207.67
		250/250	3018826*	1	285.79
		315/110	3003723*	1	331.56
		315/160	3018828*	1	331.35
		315/200	3003718*	1	347.01
		315/250	3003719*	1	351.31
		315/315	3018829*	1	419.15
	Branch 88.5°	40/40	3003628	40	4.42
		50/40	3003632	10	5.65
		50/50	3003630	40	5.64
		56/50	3003726	20	5.64
		56/56	3003727	20	5.62
		63/50	3003638	20	5.84
		75/56	3003650	20	6.90
		75/75	3003642	20	6.94
		90/40	3003655	10	8.83
		90/50	3003657	10	8.80
		90/90	3003652	10	8.78
		110/40	3003665	10	10.47
		110/50	3003667	10	10.47
		110/56	3003675	10	10.83
		110/75	3003671	10	10.09
		110/110	3003663	15	10.13
		125/125	3003677	10	15.06
		160/110	3003689	5	56.26
		160/160	3003687	5	55.69
		200/110	3003698*	20	112.05
		200/160	3003702*	1	111.57
		200/200	3018831*	1	111.57
		250/110	3018002*	1	159.44
		250/160	3018003*	1	160.47
		250/200	3018833*	1	160.94
		250/250	3003704*	1	160.36
		315/110	3018834*	1	187.55
		315/160	3018835*	1	187.55
		315/200	3018836*	1	189.33
		315/250	3018837*	1	188.77
		315/315	3003713*	1	227.13
	Boss Pipe Boss Pipe – Four Way Extended Spigot	110/56	3075823	6	32.32









Note: * = Segment Welded.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors and Adaptors					
	Universal Connector ♥ ♥	40	5W102G •	5	6.04
		50	2W102G •	10	5.81
	Expansion Socket – with Solvent Socket Tail ♥	50	2Z124W •	5	10.46
	Long-Tail Bend – 87.5°	50	2Z359G •	5	12.24
	Rubber Boss Adaptor	56/32	4063088	1	8.06
		56/40	4063089	1	8.17
Brackets					
	Galvanised HDPE Bracket M10 Connection	40	4012113	10	3.25
		50	4012117	10	4.49
		56	4063090	1	4.61
		63	4012121	10	4.70
		75	4012125	10	4.89
		90	4012131	10	5.25
		110	4012137	10	5.74
		125	4012141	10	6.02
		160	4012146	10	6.72
	Bracket Insert	40	4012329	50	2.98
		50	4012331	50	5.96
		56	4063093	25	6.11
		63	4012333	50	7.16
		75	4012335	50	6.11
		90	4012337	50	6.28
		110	4012339	50	4.86
		125	4012341	50	6.61
		160	4012343	50	5.47
		200	4012345	20	23.34
		250	4023375	20	27.46
		315	4023376	20	31.30
	Galvanised HDPE Bracket	40 x ½"	4012114	50	4.08
		50 x ½"	4012118	10	5.23
		56 x ½"	4063094	50	5.71
		63 x ½"	4012122	10	5.71
		75 x ½"	4012126	10	5.77
		90 x ½"	4012132	10	6.60
		110 x ½"	4012138	10	6.67
		125 x ½"	4012142	10	6.58
		160 x ½"	4012147	10	8.17
		200 x 1"	4012151	10	24.32
		250 x 1"	4012155	10	24.66
		315 x 1"	4012159	10	28.70







• OAG discount applies.

Wavin HDPE

Soil, Waste and Vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Mounting Plate	M10	4063092	50	4.26
		G ½"	4012326	50	4.26
	Galvanised Steel Flange 1"	1"	4009793	20	5.26
	Fire Collar				
	Fire Collar EFM				
		40	4063766	1	15.02
		50	4063767	1	15.02
		63	4063768	1	15.02
		75/78	4063769	1	19.10
		90	4063770	1	19.10
		110	4026438	1	20.51
		125	4026439	1	21.28
		135	4063771	1	32.08
		160	4063772	1	32.08
		200	4026441	1	104.70
		250	4026442	1	217.70
	Spherical Branches				
	Spherical Branch, 2 Stubs				
	Type A – 180°	110/75	3003764	5	38.13
		110/110	3003755	5	38.04
	Type B – 90°	110/110	3003756	5	37.72
	Type C – 135°	110/110	3003774	5	41.15
		Spherical Branch, 3 Stubs			
	Type D – 135°	110/110	3003775	5	46.42
	Type E – 90°	110/110	3003776	5	45.93
	Spherical Branch, 4 Stubs				
	Type F – 90°	110/110	3003777	5	50.98
	Access Tees				
	Access Tee 45°				
		110/110	3003739	5	32.41
		160/110	3003743	5	80.11
		Access Tee 88.5°			
		75/75	3003736	10	24.43
		110/110	3003740	10	33.61
		160/110	3070631*	5	79.45
		200/110	3017974*	1	132.14
	250/110	3017975*	1	169.80	
	315/110	3017976*	1	205.09	










Note: * = Segment Welded.












Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Toilet Connectors				
 Wall Mounted Toilet Connector	90/90	3003550	10	20.53
	110/110	3003554	10	20.01
 Wall Mounted Toilet Connector Elbow 90° for hanging toilets	90/90	3003619	10	38.54
	110/90	3018007	10	38.40
	110/110	3003620	10	38.29
 Wall Mounted Double Toilet Connector Elbow 90°	110/110	3003621	5	77.38
Electro-fusion Coupler				
– Universal Type (WAVIDUO)				
	40	3003478	20	5.11
	50	3003479	20	5.23
	56	3003489	20	5.24
	63	3003480	20	5.40
	75	3003481	20	7.51
	90	3003482	20	7.32
	110	3003483	20	7.69
	125	3003484	10	13.60
	160	3003485	24	17.60
	200	4061068	6	130.49
	250	4064881	2	218.37
	315	4064882	2	248.50
Sockets, Caps and Flange Adaptors				
 Push-fit Socket with Gasket and Cap	40/40	3003491	10	3.75
	50/50	3003492	10	4.48
	56/56	3003493	20	4.99
	75/75	3003495	20	7.10
	110/110	3003497	20	9.01
	160/160	3003499	18	28.31
 Expansion Socket with Gasket and Cap	40/40	3003505	20	9.88
	50/50	3003506	20	9.76
	56/56	3018008	15	9.34
	63/63	3003507	20	11.68
	75/75	3003508	20	12.41
	90/90	3003509	10	12.73
	110/110	3003510	20	13.06
	125/125	3003511	10	19.84
	160/160	3003512	5	36.02
	200/200	3003513*	15	166.93
	250/250	3070629	1	245.26
	315/315	3003515	1	423.03

Note: * = Segment Welded.

Wavin HDPE

Soil, Waste and Vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Complete Closing Cap	40	3003869	10	6.63
		50	3003870	10	6.74
		75	3003864	10	15.75
		110	3003873	10	21.42
	Weld Cap	40	3003860	20	2.78
		50	3003861	20	2.37
		63	3003862	20	2.37
		75	3003863	20	2.38
		90	3003865	20	3.01
		110	3003866	20	5.64
		125	3003867	10	7.04
		160	3003868	10	22.78
	Protection Cap for pipes and fitting	90	3018708	50	0.72
		110	3018709	40	0.81
	Flange Adaptor	75	4025989	5	23.35
		110	4009748	5	25.97
		160	4009750	5	44.22
		200	4009751	5	84.97
		250	4025992	1	146.30
		315	3018031	1	249.46
	Brass Nut Connection	63	4009761	10	7.63
	Internal Thread Joint	50	3003925	20	45.67
	Shrink-on Socket with Seal	50	3003516	5	27.09
Accessories					
	Electrofusion Welding Tool DUO 315 230v	—	4036330	1	POA
	Electrofusion Welding Tool 110v	—	4064999	1	4829.90

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Electrofusion Welding Tool Cable 40-160 Spare, for use with 4064999	—	4065001	1	239.32
	Electrofusion Welding Tool Cable 200-315 Spare, for use with 4064999	—	4065000	1	239.32
	Heat Reflector Butt-Welding Tool VR 160, 40-160mm	40-160	4011398	1	POA
	Heat Reflector Butt-Welding Tool Media 250, 75-250mm	75-250	4011401	1	POA
	Welding Mirror Complete with metal case Class X1, TP200	160	4011403	1	589.77
	Class X1, TP300	250	4011404	1	974.91
	Heat Reflector Butt-Welding Tool Maxi 315, 90-315mm	90-315	4011402	1	POA
	PE Pipe Cutter	40-63	4026014	1	266.38
		50-125	4011390	1	438.84
		110-160	4011393	1	448.74
		200-315	4011396	1	2128.98
	Other Processing Aids PE marker pen China Marker	—	4011453	12	13.02
	PE pipe scraper	—	4020757	10	45.67
	PE cleaner 0.7 litre bottle	—	4025509	12	26.76

Introduction to

Tigris K1 – Press-fit Plumbing System







Tigris K1 is a multilayer, composite pipe, press-fit plumbing system designed for potable water, sanitary and heating applications. It is ideally suited for installation on commercial projects such as educational establishments, high rise residential and hotels.

Widely specified and accorded a design award in Europe, Wavin Tigris K1 is the proven and perfected system for commercial plumbing and heating projects and has a number of features and benefits, including:

- **25 year guarantee**
- **Patented hexagonal head requires only low insertion force**
- **Flexible, multi-layer pipe requires minimal fittings reducing installation time and cost and improving flow rates**
- **Resistant to oxygen diffusion**
- **Thermal expansion comparable with copper**
- **Lightweight and corrosion resistant**
- **High resistance to scale build-up, stress-cracking, pressure and temperature**
- **Quick, simple and safe jointing method with no hot works permit required**
- **Defined leak function to reveal unpressed fittings**
- **Tigris K1 press-fit fittings for use with Wavin multi-layer pipe**
- **WRAS certificate number 1610085**






Tigris K1







Press-fit Plumbing System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Pipe					
	Pipe – Straight Lengths				
	16mm x 2.0mm x 5m	16	3061211	25	14.68
	20mm x 2.25mm x 5m	20	3061212	18	21.12
	25mm x 2.5mm x 5m	25	3061213	10	32.05
	32mm x 3.0mm x 5m	32	3041228	6	40.18
	40mm x 4.0mm x 5m	40	3004371	4	64.80
	50mm x 4.5mm x 5m	50	3004372	5	126.88
	63mm x 6.0mm x 5m	63	3028271	3	206.98
	75mm x 7.5mm x 5m	75	3053971	1	269.26
	Pipe – Coils				
	16mm x 2.0mm x 100m	16	3018297	1	231.34
	16mm x 2.0mm x 200m	16	3018302	1	462.68
	16mm x 2.0mm x 500m	16	3061202	1	1098.09
	20mm x 2.25mm x 100m	20	3018299	1	327.10
	25mm x 2.5mm x 50m	25	3018300	1	265.29
	32mm x 3.0mm x 50m	32	3004370	1	363.67
	Pipe – Coils 9mm Pre-insulated				
	16mm x 2.0mm x 50m	16	3004378	1	247.39
	20mm x 2.25mm x 50m	20	3004379	1	329.59
	Pipe – Coils 13mm Pre-insulated				
	16mm x 2.0mm x 50m + 13mm	16	3004380	1	291.45
	20mm x 2.25mm x 50m + 13mm	20	3004381	1	363.47
Couplers					
	Straight Coupler	16	3023348	10	3.03
		20	3023359	10	3.95
		25	3023360	10	5.94
		32	3023488	5	10.33
		40	3024665	3	16.44
		50	3027832	2	24.34
		63	3027847	2	64.19
		75	3065639	2	81.59
	Reducing Coupler				
	20 x 16mm	20	3023525	10	4.21
	25 x 16mm	25	3023526	10	5.45
	25 x 20mm	25	3023527	10	5.96
	32 x 20mm	32	3023528	5	10.08
	32 x 25mm	32	3023522	5	9.86
	40 x 32mm	40	3023529	3	15.84
	50 x 32mm	50	3027833	2	24.69
	50 x 40mm	50	3027834	2	27.20
	63 x 40mm	63	3027852	2	62.09
	63 x 50mm	63	3027850	2	65.22
	75 x 50mm	75	3065641	2	74.98
	75 x 63mm	75	3065640	2	77.12

Tigris K1





Press-fit Plumbing System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Elbows					
	Elbow 45°	25	3023498	10	8.06
		32	3023499	5	11.70
		40	3027839	3	22.42
		50	3024668	2	35.21
		63	3027849	2	79.77
		75	3065642	2	86.90
	Elbow 90°	16	3023363	10	3.78
		20	3023364	10	4.76
		25	3023365	10	6.75
		32	3023500	5	10.52
		40	3024666	3	20.60
		50	3024667	2	32.18
		63	3027848	2	72.53
		75	3065643	2	88.43
	Elbow 90° – single male BSP thread				
	16mm x ½"	16	3023542	10	4.79
	20mm x ½"	20	3023543	10	5.83
	20mm x ¾"	20	3023544	10	8.42
	25mm x ¾"	25	3023545	10	9.38
	32mm x 1"	32	3023539	5	16.73
	Elbow 90° – single female BSP thread				
	16mm x ½"	16	3023546	10	7.29
	20mm x ½"	20	3023547	10	9.25
	20mm x ¾"	20	3023548	10	11.27
	25mm x ¾"	25	3023549	10	12.60
	32mm x 1"	32	3023540	5	19.15
	Backplate Elbow – female BSP thread				
	16mm x ½"	16	3023344	10	9.93
	20mm x ½"	20	3023555	10	12.19
	20mm x ¾"	20	3023537	10	12.60

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Tees					
	Equal Tee	16	3023345	10	5.13
		20	3023346	10	7.36
		25	3023347	5	10.57
		32	3023521	5	18.00
		40	3024664	2	29.47
		50	3027829	2	46.05
		63	3027853	2	86.91
		75	3065644	2	122.24
	One End Reduced Tee 20x20x16mm	20	3023505	10	6.74
	Double End Reduced Tee 16x20x16mm	20	3023504	10	6.74
	20x25x20mm	25	3023510	5	9.20
	25x32x25mm	32	3023515	5	14.84
	Branch Reduced Tee 20x16x20mm	20	3023506	10	6.74
	25x16x25mm	25	3023508	5	9.32
	25x20x25mm	25	3023511	5	10.15
	32x16x32mm	32	3023513	5	14.13
	32x20x32mm	32	3023514	5	15.09
	32x25x32mm	32	3023516	5	16.35
	40x25x40mm	40	3023518	3	23.02
	40x32x40mm	40	3023519	3	25.42
	50x25x50mm	50	3027830	2	33.62
	50x40x50mm	50	3027831	2	37.88
	63x25x50mm	63	3027856	2	59.09
	63x32x63mm	63	3027855	2	65.61
	63x40x63mm	63	3027854	2	77.98
	75x32x75mm	75	3065647	2	83.28
	75x40x75mm	75	3065646	2	94.02
	75x50x75mm	75	3065645	2	97.60
	Branch and One End Reduced Tee 20x16x16mm	20	3023507	10	6.74
	25x16x16mm	25	3023509	5	8.69
	25x20x20mm	25	3023512	5	9.35
	32x25x25mm	32	3023517	5	14.89
	40x32x32mm	40	3023520	3	22.63
	One Sided Female Thread Tee 16mm x 1/2"	16	3023557	10	12.40
	20mm x 1/2"	20	3023558	10	13.84
	20mm x 3/4"	20	3023559	10	14.38
	25mm x 3/4"	25	3023560	5	17.87









Tigris K1

Press-fit Plumbing System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors					
	Connector – single male BSP thread				
	16mm x ½"	16	3023495	10	3.80
	20mm x ½"	20	3023496	10	4.83
	20mm x ¾"	20	3023550	10	5.36
	25mm x ¾"	25	3023551	10	6.12
	25mm x 1"	25	3023552	10	7.95
	32mm x 1"	32	3023541	5	11.66
	32mm x 1¼"	32	3023553	5	17.52
	40mm x 1¼"	40	3027836	3	19.22
	50mm x 1 ½"	50	3027837	2	28.26
	Connector – single female BSP thread				
	16mm x ½"	16	3023494	10	5.14
	20mm x ½"	20	3023361	10	5.85
	20mm x ¾"	20	3023497	10	7.57
	25mm x ¾"	25	3023362	10	10.00
	32mm x 1"	32	3023554	5	16.90
	40mm x 1¼"	40	3027838	3	24.94
	Tap Connector – female BSP thread				
	16mm x ¾"	16	3023489	10	6.11
	20mm x ¾"	20	3023490	10	6.78
	25mm x 1"	25	3023491	5	14.51
	32mm x 1¼"	32	3023492	5	21.10
	40mm x 1½"	40	3023493	3	28.08
	End Cap				
		16	3023561	10	4.39
		20	3023562	10	4.87
		25	3023563	5	5.57

Tigris M1 *

Metal-body Press-fit Plumbing System

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors					
	Connector – single male BSP thread 16mm x 3/4"	16	4032676	10	6.11
	63mm x 2"	63	4032685	2	65.14
	Connector – single female BSP thread 50mm x 1 1/2"	50	4032698	3	43.69
	63mm x 2"	63	4032699	2	68.78
	Tap Connector – female BSP thread 16mm x 1/2"	16	4032700	10	6.11
	Elbow 90° – Radiator Connector	16	4037512	10	19.82
Accessories					
	Adaptor Fitting to Hep ₂ O 16 x 15mm	16	3052945	10	6.02
	20 x 22mm	20	3052946	10	10.77
	25 x 22mm	25	3052947	10	12.52
	25 x 28mm	25	3052948	10	16.49
	32 x 28mm	32	3052949	10	17.88
	Transition Fitting to Copper 16 x 15mm	16	4032721	5	7.89
	20 x 15mm	20	4032722	5	8.51
	20 x 22mm	20	4037451	5	10.82
	25 x 22mm	25	4032723	5	15.79
	25 x 28mm	25	4032724	5	17.64
	Compression Adaptor 16 x 15mm	16	4013355	2	4.38
	Pressure Stopper	16	4013571	1	23.00
		20	4013572	1	23.00
		25	4013573	1	23.00

Note:












* M1 fittings are manufactured from a UBA listed 617 brass.







- Materials on the UBA list are accepted as drinking water quality by the 4 member state.
- The UK is a member of the 4 member state, together with Germany, Netherlands and France.

* M1 fittings do not carry WRAS approval.

Tigris K1

Press-fit Plumbing System

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Accessories and Tools					
	Bending Spring	16	4013553	1	27.49
		20	4013559	1	35.37
		25	4013562	1	37.87
	Pipe Cutter 16mm-75mm	—	4053508	1	74.57
	Replacement Blade for 4053508	—	4053545	1	9.75
	Hand Press Tool 16-75mm	—	4013538	1	104.68
	Hand Tool Insert	16	4013542	1	63.78
		20	4013543	1	63.78
	Cordless Pressing Tool 16mm-40mm	—	4048906	1	1036.77
	Cordless Pressing Tool 16mm-75mm	—	4048907	1	1762.50
	Battery for 4048906 (ACO102 mini tool)	—	4046770	1	119.02
	Battery for 4048907 (ACO202 standard tool)	—	4046768	1	235.99
	Pressing Jaws — for use with 4048906	16	4046556	1	109.89
		20	4046557	1	109.89
		25	4046558	1	116.14
		32	4046559	1	116.14
		40	4046560	1	169.83
	Pressing Jaws — for use with 4048907	16	4046691	1	121.52
		20	4046694	1	121.52
		25	4046695	1	128.36
		32	4046756	1	128.36
		40	4046758	1	177.81
		50	4046759	1	193.29
		63	4035779	1	288.25

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pressing Jaws – for use with 4048907 and 4053510	75	4053509	1	341.98
	Pressing Adaptor for 75mm Jaw – for use with 4048907 and 4053509	75	4053510	1	380.08
	Calibration Mandrel	16	4999998	1	62.68
		20	4999999	1	63.51
		25	4023364	1	66.77
		32	4023365	1	71.64
	Calibration Mandrel	40	4031987	1	122.91
		50	4031988	1	119.96
		63	4035780	1	177.69
		75	4053507	1	188.86
	Handgrip Calibration Mandrel	–	3011162	1	35.43
		–	4036272	1	35.43
	Calibration Set 16mm-32mm	–	4013541	1	295.60

Introduction to

Hep₂O

Plumbing and Heating Systems

Hep₂O Flexible Push-fit Plumbing has been developed in response to installer feedback, and has a number of unique and innovative features and benefits including;

- In4Sure joint recognition – tells you when the pipe is in.
- Secure demounting with the new HepKey system.
- New, improved SmartSleeve stays captive in the pipe.
- 50 year industry leading guarantee.
- Flexible pipe which comes off the coil straight.



Hep₂O Underfloor Heating has a wide range of systems for any floor type. See www.hep2oufh.co.uk for details.

Hep₂O is Kitemarked to Class S of BS 7291, parts 1 and 2 and is manufactured within a Quality Management System which satisfies BS EN ISO 9002.

Hep₂O is also approved by **WRAS** (certificate 1312005) – deemed safe for use in the supply of drinking water.

Hep₂O Guarantee

As a result of its rigorous Quality Management programme, **Hep₂O** carries a 50 year guarantee against defect in materials or manufacturing of all its pipe and fittings.

Prices are for individual items within a pack unless otherwise stated.

Symbols

British Standards Kitemark

Identifies pipe and fittings which are manufactured under the BSI Kitemark Certification Scheme.

Important note: Fittings of all product ranges must be ordered in their pack multiples as illustrated in price list.

Hep₂O fittings are pre-lubricated, no additional lubrication is required. DO NOT use any flux, jointing compound or non Hep₂O lubricant on Hep₂O fittings.

Email: info@hep2o.co.uk




Web: www.hep2o.co.uk



@hep2o

Hep₂O Flexible Plumbing

Polybutylene Pipe











Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Plumbing and Underfloor Heating Pipe Coils – Barrier Please Note: Order pipe by unit (coil) not by metre				
25m ♥	10	HXX25/10W	1	49.29
50m ♥	10	HXX50/10W	1	97.10
100m ♥	10	HXX100/10W	1	191.28
10m ♥	15	HXX10/15W	1	23.21
25m ♥	15	HXX25/15W	1	57.99
50m ♥	15	HXX50/15W	1	114.76
80m ♥	15	HXX80/15W	1	183.61
100m ♥	15	HXX100/15W	1	225.97
120m ♥	15	HXX120/15W	1	271.17
10m ♥	22	HXX10/22W	1	45.28
25m ♥	22	HXX25/22W	1	113.19
50m ♥	22	HXX50/22W	1	224.12
10m ♥	28	HXX10/28W	1	61.04
25m ♥	28	HXX25/28W	1	152.62
50m ♥	28	HXX50/28W	1	303.79
 Straight Lengths – Barrier				
3m ♥	15	HXX03/15W	10	7.26
3m ♥	22	HXX03/22W	10	14.22
3m ♥	28	HXX03/28W	10	19.49
6m ♥	15	HXX06/15W	40	14.99
6m ♥	22	HXX06/22W	20	29.41
6m ♥	28	HXX06/28W	12	40.12
 Pipe in Pipe System Coil of Hep₂O Barrier Pipe in Blue or Red Conduit Please Note: Order pipe by unit (coil) not by metre				
50m ♥	10	HXXC5010 BU	1	201.66
50m ♥	10	HXXC5010 RD	1	201.66
50m ♥	15	HXXC5015 BU	1	231.88
50m ♥	15	HXXC5015 RD	1	231.88
50m ♥	22	HXXC5022 BU	1	356.68
50m ♥	22	HXXC5022 RD	1	356.68
25m ♥	28	HXXC2528 BU	1	293.65
25m ♥	28	HXXC2528 RD	1	293.65

Important Note:










Order pipe by unit (length) not by metre. Cut lengths only available as pack quantities.

Hep₂O Flexible Plumbing

Demountable Fittings

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Connector				
	♥	10	HD1/10W	10	3.71
	♥	15	HD1/15W	10	2.21
	♥	22	HD1/22W	10	3.12
	♥	28	HD1/28W	5	8.98
	Elbow 90°				
	♥	10	HD5/10W	10	4.20
	♥	15	HD5/15W	10	2.70
	♥	22	HD5/22W	10	3.96
	♥	28	HD5/28W	5	10.75
	Equal Tee				
	♥	10	HD10/10W	10	5.19
	♥	15	HD10/15W	10	3.79
	♥	22	HD10/22W	10	5.19
	♥	28	HD10/28W	5	14.85
	Demountable Stop-End				
	♥	10	HD62/10W	10	3.29
	♥	15	HD62/15W	10	2.94
	♥	22	HD62/22W	10	3.71
	♥	28	HD62/28W	5	6.17
	SmartSleeve Pipe Support				
		10	HX60/10W	20	0.48
		15	HX60/15W	50	0.49
		22	HX60/22W	50	0.63
		28	HX60/28W	20	0.94
	Spigot Elbow 90°				
	Single Socket				
	♥	10	HD4/10W	5	4.20
	♥	15	HD4/15W	5	2.85
	♥	15x10	HD4A/15W	5	4.20
	Socket Reducer				
	15 x 10mm ♥	15	HD2/15W	10	3.84
	22 x 15mm ♥	22	HD2/22W	10	2.98
	28 x 22mm ♥	28	HD2/28W	5	7.20
	Socket/Socket Reducer				
	15 x 10mm ♥	15	HD3B/15W	10	6.99
	22 x 15mm ♥	22	HD3B/22W	10	6.09
	22 x 10mm ♥	28	HD3C/22W	10	6.99
	Obtuse Bend 135° Single Socket				
	♥	10	HD8/10W	5	4.53
	♥	15	HD8/15W	5	3.15
	♥	22	HD8/22W	5	4.53
	End Reduced Tee				
	22 x 15 x 22mm ♥	22	HD12/22W	5	5.49
	28 x 22 x 28mm ♥	28	HD12/28W	5	14.85







Important Note: All fittings are pre-lubricated - no additional lubrication required.
Hep₂O fittings are fully compatible with Hep₂O and copper pipe.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Double End Reduced Tee				
	10 x 10 x 15mm ♡	15	HD18/15W	5	5.49
	10 x 10 x 22mm ♡	22	HD18A/22W	5	5.80
	15 x 15 x 22mm ♡	22	HD18/22W	5	5.49
	22 x 22 x 28mm ♡	28	HD18/28W	5	14.85
	Branch Reduced Tee				
	15 x 15 x 10mm ♡	15	HD13/15W	5	5.49
	22 x 22 x 10mm ♡	22	HD13A/22W	5	5.49
	22 x 22 x 15mm ♡	22	HD13/22W	5	5.49
	28 x 28 x 15mm ♡	28	HD13A/28W	5	14.85
	28 x 28 x 22mm ♡	28	HD13/28W	5	14.85
	Branch Reduced Tee – Spigot				
	15 x 15 x 10mm ♡	15	HD15/15W	5	5.49
	22 x 22 x 15mm ♡	22	HD15/22W	5	5.49
	Branch and One End Reduced Tee				
	15 x 10 x 10mm ♡	15	HD14/15W	5	5.49
	22 x 10 x 10mm ♡	22	HD14A/22W	5	5.49
	22 x 15 x 15mm ♡	22	HD14/22W	5	5.49
	28 x 22 x 22mm ♡	28	HD14/28W	5	14.85
	Blanking Peg				
	For demountable Hep ₂ O fittings ♡	10	HX44/10W	10	1.16
	♡	15	HX44/15W	10	1.36
	♡	22	HX44/22W	10	1.36
	♡	28	HX44/28W	10	1.63
	Tank Connector				
	with BSP tail & backnut (For cold water use only)				
	BSP 1/2"	15	HX20/15W	5	3.20
	BSP 3/4"	22	HX20/22W	5	4.03
	BSP 1"	28	HX20/28W	5	18.06
	Straight Tap Connector				
	with brass nut and alternative rubber washer				
	BSP 1/2" ♡ *	15	HD25A/15W	10	3.86
	BSP 3/4" ♡ *	15	HD25B/15W	5	4.56
	BSP 3/4" ♡ *	22	HD25B/22W	5	4.94
	Bent Tap Connector				
	with brass nut and alternative rubber washer				
	BSP 1/2" ♡ *	15	HD27/15W	5	4.26
	Hand-Titan™ Tap Connector				
	with rubber washer				
	BSP 1/2" ♡ *	10	HD26A/10W	5	3.92
	BSP 1/2" ♡ *	15	HD26A/15W	5	3.26
	BSP 3/4" ♡ *	15	HD26B/15W	5	3.92
	BSP 3/4" ♡ *	22	HD26B/22W	5	4.23

* For intermittent hot and cold water use up to a maximum of 65°C.
Not for use with central heating.





Hep₂O Flexible Plumbing

Flexible Tap Connectors

	Description	Nom dia mm	Cat no	Pack qty	Hose type	Price £ per piece
	Hep₂O x BSP Nut with brass nut and rubber washer					
	150mm BSP 1/2" *	15	HD425A/15W	2	Braided	6.38
	300mm BSP 1/2" *	15	HD125A/15W	2	Braided	6.74
	300mm BSP 3/4" *	15	HD125B/15W	2	Braided	7.97
	300mm BSP 3/4" (full bore) *	22	HD125C/22W	2	Braided	13.72
	300mm BSP 3/4" *	22	HD125B/22W	2	Braided	7.97
	500mm BSP 1/2" *	15	HD225A/15W	2	Braided	9.23
	500mm BSP 3/4" *	15	HD225B/15W	2	Braided	10.43
	500mm BSP 3/4" (full bore) *	22	HD225C/22W	2	Braided	16.02
	500mm BSP 3/4" *	22	HD225B/22W	2	Braided	11.09
	1000mm BSP 1/2" *	15	HD325A/15W	1	Braided	16.76
	1000mm BSP 3/4" *	22	HD325B/22W	1	Braided	20.45
	Hep₂O x BSP Nut with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HDW125A/15W	2	White	6.38
	300mm BSP 3/4" *	15	HDW125B/15W	2	White	7.97
	300mm BSP 3/4" *	22	HDW125B/22W	2	White	7.97
	500mm BSP 1/2" *	15	HDW225A/15W	2	White	9.23
	500mm BSP 3/4" *	15	HDW225B/15W	2	White	10.43
	500mm BSP 3/4" *	22	HDW225B/22W	2	White	11.09
	Hep₂O x Hep₂O					
	300mm 15mm x 15mm *	15	HD125H/15W	2	Braided	7.91
	300mm 22mm x 22mm *	22	HD125H/22W	2	Braided	9.69
	500mm 15mm x 15mm *	15	HD225H/15W	2	Braided	11.60
	500mm 22mm x 22mm *	22	HD225H/22W	2	Braided	13.39
	Hep₂O x Hep₂O					
	300mm 15mm x 15mm *	15	HDW125H/15W	2	White	7.91
	300mm 22mm x 22mm *	22	HDW125H/22W	2	White	9.69
	Hep₂O x Elbow BSP Nut with brass nut and rubber washer					
	300mm Elbow BSP 1/2" *	15	HD125D/15W	2	Braided	8.55
	300mm Elbow BSP 1/2" *	15	HDW125D/15W	2	White	8.55

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Not for use with central heating.

Flexible Tap Connectors

	Description	Nom dia mm	Cat no	Pack qty	Hose type	Price £ per piece
	Hep₂O Brass Service Valve x BSP Nut with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HD125E/15W	2	Braided	18.31
	300mm BSP 3/4" *	22	HD125E/22W	2	Braided	34.41
	500mm BSP 1/2" *	15	HD225E/15W	2	Braided	20.04
	500mm BSP 3/4" *	15	HD225I/15W	2	Braided	22.05
	500mm BSP 3/4" *	22	HD225E/22W	2	Braided	37.53
	Hep₂O Brass Service Valve x BSP Nut with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HDW125E/15W	2	White	18.31
	300mm BSP 3/4" *	22	HDW125E/22W	2	White	34.41
	Hep₂O Brass Service Valve (Handle) x BSP Nut with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HD125EH/15W	2	Braided	18.31
	300mm BSP 3/4" *	22	HD125EH/22W	2	Braided	34.41
	Hep₂O x Monobloc Mixers					
	300mm 15mm x M10 *	15	HD125F/15W •	Pair	Braided	12.06
	300mm 15mm x M12 *	15	HD125G/15W •	Pair	Braided	12.06

• Sold and priced as a pair.

Hep₂O Flexible Plumbing

Auxiliary Fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Adaptor Male BSP/Hep ₂ O socket DZR Brass				
	BSP 1/2" 	10	HX29/10W	10	6.34
	BSP 1/2" 	15	HX29/15W	10	6.17
	BSP 3/4" 	22	HX29/22W	10	8.87
	BSP 1" 	28	HX29/28W	5	16.85
	Adaptor Female BSP/Hep ₂ O socket DZR Brass				
	BSP 1/2" 	10	HX28/10W	10	6.34
	BSP 1/2" 	15	HX28/15W	10	6.17
	BSP 3/4" 	15	HX24/15W	10	8.87
	BSP 3/4" 	22	HX28/22W	10	8.87
	BSP 1" 	28	HX28/28W	5	17.43
	Adaptor Male BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" 	15	HX31/15W	10	3.44
	BSP 3/4" 	22	HX31/22W	10	5.67
	Adaptor Female BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" 	15	HX30/15W	10	3.36
	BSP 3/4" 	22	HX30/22W	10	5.67
	Adaptor BSP 1" 	28	HX30/28W	10	8.32
	Draincock Brass 15mm spigot DZR Brass 	15	HX32/15 GY	10	6.17
	Adaptor Converts 1/2" tap connector to 3/4" DZR Brass				
	BSP 1/2"x 3/4" 		HX39 GR	10	3.19
	Wall Plate Elbow Hep ₂ O				
	BSP 1/2" 	15	HX6/15W	5	9.53
	BSP 3/4" 	22	HX6/22W	5	10.35
	Ball Valve Plated Brass (for hot and cold water use)				
	15x15mm	15	HX22/15W	5	12.20
	22x22mm	22	HX22/22W	5	15.92
	Gate Valve – Hot/Cold DZR Brass – Hep ₂ O ends				
	15	15	HX35/15W	5	9.66
	22	22	HX35/22W	5	13.76
	Stopcock – Cold Water fitted with Hep ₂ O ends				
	15	15	HX36/15W	5	9.71
	22	22	HX36/22W	5	11.62











Auxiliary Fittings

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopcock – Cold Water Hep ₂ O to MDPE Conversion 22mm to 25mm MDPE	22	HX43/22W	5	20.63
	Shut-off Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX37/15W	5	6.87
	Appliance Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX38/15W	5	6.34
	Straight Service Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX18/15W	5	7.30
	Angled Service Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX19/15W	5	7.31
	Double-Check Valve Plastics NB: *SEE USAGE NOTE	15	HX72/15W	1	16.33
	Two Port Manifold 22x15mm ports Closed Spigot ♀	22	HX88/22W	5	7.41
	Two Port Manifold 22x15mm ports All socket ♀	22	HX88B/22W	5	7.65
	Three Port Manifold 22x15mm ports Closed spigot ♀	22	HX89/22W	5	9.95
	Three Port Manifold 22x15mm ports All socket ♀	22	HX89B/22W	5	10.31
	Two Port Manifold 22x10mm ports All socket ♀	22	HX92B/22W	5	8.10






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Hep₂O Flexible Plumbing

Auxiliary Fittings


	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Four Port Manifold 22x10mm ports All socket ♡	22	HX94B/22W	5	10.31
	Two Port Manifold 22x10mm ports Socket and closed spigot ♡	22	HX92/22W	5	7.41
	Four Port Manifold 22x10mm ports Socket and closed spigot ♡	22	HX94/22W	5	9.95
	Four Port Manifold 22x10mm ports Socket and closed spigot, on one side ♡	22	HX96/22W	5	11.37
	Four Port Manifold 22x10mm ports All socket, on one side ♡	22	HX96B/22W	5	11.37
	One Port Valved Manifold Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡	22	HX91T/22W	1	20.71
	Two Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡	15	HX92T/15W	1	34.79
	Three Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡	15	HX93T/15W	1	51.02
	Four Port Valved Manifold Plated Brass 3/4" BSP male/female. 15mm Hep ₂ O ports ♡	15	HX94T/15W	1	69.65
	Manifold End Caps 3/4" BSP Female End Cap 3/4" BSP Male End Cap		HX97 GY HX98 GY	5 5	3.03 3.51

Auxiliary Fittings




Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Manifold Bracket – Pair for HX92T/15, HX93T/15 and HX94T/15		HX95A GR	1	19.94
	Radiator Outlet Back Box Plastic (for stud wall)		HX109 GY	5	3.20
	Radiator Outlet Back Box Metal (for solid wall)		HX110 GY	5	2.69
	Radiator Outlet Cover with Flap For use with HX109 and HX110		HX113 WH	5	7.04
	Back Box Grommet For use with HX110		HX112 GY	50	0.18

Hep₂O Flexible Plumbing


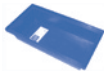



Tools, Fixings and Accessories

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	HepKey Plus Demounting Tool	10	HX79/10W	10	0.34
		15	HX79/15W	10	0.39
		22	HX79/22W	10	0.39
		28	HX79/28W	10	0.43
	HepKey Demounting Tool	10	HX78/10W	10	0.29
		15	HX78/15W	10	0.34
		22	HX78/22W	10	0.34
		28	HX78/28W	10	0.38
	HepTool Demounting Tool				
	10/28mm 15/22mm	10 15	HX77/10W HX77/15W	10 10	2.03 1.67
	Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	2.18
		16	HX75/16 GR	5	2.18
		22	HX75/22 GR	5	3.05
	Pipe Cutter – Scissor Type Standard		HD74 GR	1	17.15
	Pro Cutter		HD75 GR	1	42.27
	Pipe Cutter – Ratchet Type up to 42mm pipe up to 28mm pipe		HD77 GR HD78 GR	1 1	62.31 43.25
	Hep₂O Joint Test Kit Hep ₂ O Joint Test Kit		HX81 GR	1	495.66
	Pipe Clips – Screw	15	HX85/15W	50	0.32
		22	HX85/22W	50	0.32
		28	HX85/28W	50	0.52
	Pipe Clip – Spacers	15	HX86/15W	20	0.24
		22	HX86/22W	20	0.32
	Pipe Clip Cable Type	10	HX65/10W	50	0.20
		15	HX65/15W	50	0.32
		22	HX65/22W	50	0.32
		28	HX65/28W	50	0.39

Tools, Fixings and Accessories


	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep₂O Silicone Lubricant Spray 400ml aerosol can Hep ₂ O fittings		HX200	1	11.78
	Flat Tap Connector Washers – Rubber	15	HX58/15 GY	20	p/pack 4.52
		22	HX58/22 GY	20	p/pack 4.52
	Conical Tap Connector Washers – Rubber	15	HX57/15 GR	20	p/pack 4.52
		22	HX57/22 GR	20	p/pack 4.52

Conduit System

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Conduit Pipe 25.0m 50.0m 25.0m 50.0m	15 15 22 22	HXC25/15 BL HXC50/15 BL HXC25/22 BL HXC50/22 BL	1 1 1 1	36.05 72.14 45.09 89.72
	Conduit Junction Box		HX100 BL	1	5.98
	Conduit Junction Box Lid		HX104 BL	1	2.00
	Conduit Terminal	15	HX101/15W	2	8.33
	Terminal Back Plate		HX103 BL	1	1.67



Hep₂O Underfloor Heating

UFH – Polybutylene Pipe


Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Underfloor Heating Pipe Coils – Barrier Please Note: Order pipe by unit (coil) not by metre				
25m ♥	10	HXX25/10W	1	49.29
50m ♥	10	HXX50/10W	1	97.10
100m ♥	10	HXX100/10W	1	191.28
10m ♥	15	HXX10/15W	1	23.21
25m ♥	15	HXX25/15W	1	57.99
50m ♥	15	HXX50/15W	1	114.76
80m ♥	15	HXX80/15W	1	183.61
100m ♥	15	HXX100/15W	1	225.97
120m ♥	15	HXX120/15W	1	271.17

Important Note: Order pipe by unit (length) not by metre.

UFH – Floor Systems

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Staple System Staples 60mm for 15mm UFH Pipe	15	15UH231	300	0.15
 Staple Gun (40/60mm)	15	15UH237	1	403.53
 System Plate System System Plate (1275 x 975mm)	15	15UH232	18	12.50
 System Plate Tack Fastener		15UH238	25	0.36
 System Ancillaries Edge Expansion Foam (25.0m x 150mm)		15UH234	1	34.18

UFH – Room Packs

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	UFH Room Packs				
	12m ²	15	15UKPK1	1	893.93
	18m ²	15	15UKPK2	1	957.63
	24m ²	15	15UKPK3	1	1019.09

Underfloor Heating Room Packs

Contents:


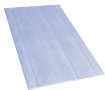


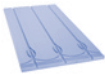



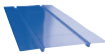

- ① 15mm UFH Pipe Coil
- ① 300 Pipe Staples
- ① 25m Roll of Edge Expansion Foam
- ① Programmable Thermostat
- ① 2 x Isolation Valves
- ① Flow Watch Thermostat
- ① Control Pack
- ① Single Circuit Fittings Pack

Contains everything you need for a new screeded floor
















Hep₂O Underfloor Heating

UFH – Dry Construction Products

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Panel Systems					
	Low-Build Panel 15x600x1200mm	10	10UH601	10	42.46
	Low-Build Max – Straight Panel 15x600x1200mm	10	10UH602	10	43.29
	15x600x1200mm	10	10UH603	30	41.36
	Low-Build Max – Return Panel 15x300x138mm	10	10UH604	10	14.52
	Low-Build Max – Channel Panel 15x600x150mm	10	10UH600	10	18.05
	Floating Floor Panel – 25mm 600x1200mm	15	15UH608	10	29.08
	Joist Panel – 50mm 340x1200mm	15	15UH610	10	29.70
	L Bracket – Inter Joist Panel		15UH612	1	3.46
	Screws & Washers – Joisted Floor M5x70mm		15UH613	50	0.38
Diffuser Plates					
	Double Diffuser Plate – 15mm 1000x390mm	15	15UH605	10	18.43
	Single Diffuser Plate – 15mm 1000x140mm	15	15UH606	10	8.83

Hep₂O Underfloor Heating

UFH – Manifolds and Controls Systems



Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Manifolds					
	Composite Manifold – Control Pack A Rated		15UH512	1	576.69
	Composite Manifold – Starter Pack		15UH510	1	107.54
	Composite Manifold – One Port Pack	15	15UH511	1	54.40
	Composite Manifold – Three Port Pack	15	15UH513	1	145.18
	Composite Manifold – Euroconus Adaptor 15x1.8 (pair)	15	15UH529	1	9.56
	Composite Manifold – Euroconus Adaptor 16x1.8 (pair)	16	16UH529	1	9.56
	Composite Manifold 22mm Isolation Valves (pair)	22	15UH211	2	p/pack 42.15
	1"x15mm Female Brass Adaptor	15	15UH607	5	17.43
	Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	2.18
	Pipe Clips – Screw	15	HX85/15W	50	0.32
Digital Controls					
	Single Zone Kit (c/w Programmable Thermostat)		15UH310	1	209.26
	16 Zone Control Centre (24v)		15UH316	1	193.83
	24V Actuator (for use with 15UH316)		15UH302	1	38.78

Hep₂O Underfloor Heating

UFH – Control Systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flow Watch Sensor (for use with 15UH316)		15UH334	1	16.76
	Wired Thermostat		15UH372	1	49.34
	Wired Programmable Thermostat		15UH373	1	62.92
	Wireless Thermostat		15UH382	1	77.07
	Wireless Programmable Thermostat		15UH383	1	91.05
	Remote Sensor Probe		15UH395	1	16.05
Mains Controls					
	8 Zone Control Centre (230v)		15UH408	1	126.23
	230V Actuator (for use with 15UH408)		15UH402	1	38.78
	Flow Watch Thermostat (for use with 15UH408)		15UH524	1	34.02
	neoStat (white)		15UH475	1	118.98
	neoStat (black)		15UH476	1	118.98
	Remote Sensor Probe		15UH495	1	16.03

UFH – Control Systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Remote Sensor Probe Cover		15UH494	1	2.79
	neoHub		15UH492	1	224.18

Numerical Index

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
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OT003B	14.05	5	OT033G	8.03	7	OT088N	59.77	7
OT003G	14.05	5	OT033N	8.03	7	OT088W	59.77	7
OT003N	14.05	5	OT033W	8.03	7	OT092B	16.87	7
OT003W	14.05	5	OT034B	5.59	7	OT116B	1.82	9
OT004B	18.37	5	OT034G	5.59	7	OT116G	1.82	9
OT004G	18.37	5	OT034N	5.59	7	OT116N	1.82	9
OT004N	18.37	5	OT034W	5.59	7	OT116W	1.82	9
OT004W	18.37	5	OT035B	27.88	8	OT143B	18.64	7
OT005B	7.28	4	OT035G	27.88	8	OT147G	21.27	22
OT005G	7.28	4	OT035N	27.88	8	OT147G	21.27	20
OT005N	7.28	4	OT035W	27.88	8	OT147G	21.27	18
OT005W	7.28	4	OT037B	9.27	8	OT147G	21.27	16
OT007B	18.26	4	OT037G	9.27	8	OT147G	21.27	11
OT007G	18.26	4	OT037N	9.27	8	OT147G	21.27	6
OT007N	18.26	4	OT037W	9.27	8	OT148G	19.64	6
OT007W	18.26	4	OT038B	6.56	7	OT148G	19.64	11
OT008B	16.47	5	OT038G	6.56	7	OT148G	19.64	16
OT009B	9.81	4	OT038N	6.56	7	OT148G	19.64	18
OT009G	9.81	4	OT038W	6.56	7	OT148G	19.64	20
OT009N	9.81	4	OT044B	3.98	21	OT148G	19.64	22
OT009W	9.81	4	OT044B	3.98	19	OT149B	17.85	13
OT010B	4.69	5	OT044B	3.98	17	OT149B	17.85	7
OT010G	4.69	5	OT044B	3.98	15	OT161B	16.52	8
OT010N	4.69	5	OT044B	3.98	10	OT161G	16.52	8
OT010W	4.69	5	OT044B	3.98	4	OT161N	16.52	8
OT011B	6.05	5	OT045B	8.79	4	OT161W	16.52	8
OT011G	6.05	5	OT045B	8.79	10	OT201B	58.71	14
OT011N	6.05	5	OT045B	8.79	17	OT201B	58.71	8
OT011W	6.05	5	OT045B	8.79	19	OT201W	58.71	8
OT014B	28.21	5	OT060B	2.38	9	OT201W	58.71	14
OT015B	28.21	5	OT061B	2.38	9	OT245B	17.35	6
OT016B	19.35	5	OT064G	2.38	8	OT246B	17.35	6
OT017B	43.19	5	OT072B	20.42	4	OT274B	50.33	8
OT019B	3.23	4	OT072G	20.42	4	OT274G	50.33	8
OT019G	3.23	4	OT072N	20.42	4	OT274N	50.33	8
OT019N	3.23	4	OT072W	20.42	4	OT274W	50.33	8
OT019W	3.23	4	OT074B	40.78	4	OT332B	37.43	8
OT024B	6.83	7	OT074G	40.78	4	OT332G	37.43	8
OT024G	6.83	7	OT074N	40.78	4	OT332N	37.43	8
OT024N	6.83	7	OT074W	40.78	4	OT332W	37.43	8
OT024W	6.83	7	OT082B	22.89	6	OT624B	14.99	4
OT025B	8.56	8	OT082G	22.89	6	OT624G	14.99	4
OT025G	8.56	8	OT082N	22.89	6	OT624N	14.99	4
OT025N	8.56	8	OT084B	45.76	6	OT624W	14.99	4
OT025W	8.56	8	OT084G	45.76	6	OT625B	22.63	4
OT026B	10.67	8	OT084N	45.76	6	OT745B	17.05	6
OT026G	10.67	8	OT084W	45.76	6	OT746B	18.46	6
OT026N	10.67	8	OT086B	31.51	6	OT914B	13.90	6
OT026W	10.67	8	OT086G	31.51	6	OT914G	13.90	6
OT027B	13.29	8	OT086N	31.51	6	OT914N	13.90	6
OT030B	3.12	7	OT086W	31.51	6	OT914W	13.90	6
OT031B	2.66	7	OT088B	59.77	7	OT985B	9.88	21

Cat no	Price £ per piece	Page no	Cat No	Price £ per piece	Page no	Cat No	Price £ per piece	Page no
OT985B	9.88	19	1E166W	3.81	59	2M160B	13.35	77
OT985B	9.88	18	1E166W	3.81	87	2M160B	13.35	48
OT985B	9.88	16	1E190W	4.10	59	2M160E	13.35	48
OT985B	9.88	11	1E190W	4.10	87	2M160E	13.35	77
OT985B	9.88	6	1E344B	4.62	47	2M160W	13.35	48
OT986B	14.86	6	1E344B	4.62	59	2M160W	13.35	77
OT986B	14.86	11	1E344W	4.62	47	2M161B	13.04	78
OT986B	14.86	16	1E344W	4.62	59	2M161B	13.04	49
OT986B	14.86	18	1E344W	4.62	87	2M161E	13.04	49
OT986B	14.86	19	1E346B	4.62	47	2M161E	13.04	78
OT986B	14.86	21	1E346B	4.62	59	2M161W	13.04	49
OT988B	8.23	6	1E346W	4.62	47	2M161W	13.04	78
OT988B	8.23	11	1E346W	4.62	59	2M163B	11.21	78
OT988B	8.23	16	1E346W	4.62	87	2M163B	11.21	49
OT988B	8.23	18	1O149W	16.00	60	2M163E	11.21	49
OT988B	8.23	19	1O149W	16.00	87	2M163E	11.21	78
OT988B	8.23	21	1O158W	3.19	60	2M163W	11.21	49
OT989B	11.07	6	1O159W	3.81	60	2M163W	11.21	78
OT989B	11.07	11	1V402W	43.88	88	2M190B	18.02	78
OT989B	11.07	16	1V402W	43.88	58	2M190B	18.02	49
OT989B	11.07	18	1V403G	87.72	58	2M190E	18.02	49
OT989B	11.07	19	1V403G	87.72	88	2M190E	18.02	78
OT989B	11.07	21	2CS801SE	13.14	75	2M190W	18.02	49
OT999B	76.64	5	2CS802SE	13.14	75	2M190W	18.02	78
OT999G	76.64	5	2CS804SE	7.71	75	2M260B	14.71	78
OT999N	76.64	5	2CS805SE	7.71	75	2M260B	14.71	49
OT999W	76.64	5	2CS812SE	9.25	70	2M260E	14.72	49
1C074W	8.48	59	2CS813SE	13.14	70	2M260E	14.72	78
1C104W	3.19	59	2CS814SE	7.71	70	2M260W	14.72	49
1C139W	5.83	59	2CS815SE	7.12	70	2M260W	14.72	78
1C160W	3.11	59	2CS816SE	8.49	70	2M292B	10.73	78
1C163W	3.81	59	2M073B	37.91	77	2M292B	10.73	49
1C190W	4.46	59	2M073B	37.91	48	2M292E	10.73	49
1C344W	4.62	59	2M073E	37.91	48	2M292E	10.73	78
1C344W	4.62	53	2M073E	37.91	77	2M292W	10.73	49
1C346W	4.62	53	2M073W	37.91	48	2M292W	10.73	78
1C346W	4.62	59	2M073W	37.91	77	2M456B	7.45	79
1E073W	7.14	87	2M081B	2.14	77	2M456B	7.45	50
1E073W	7.14	59	2M081B	2.14	48	2M456E	7.45	50
1E082W	1.12	59	2M081E	2.14	48	2M456E	7.45	79
1E082W	1.12	87	2M081E	2.14	77	2M456W	7.45	50
1E104W	3.19	59	2M081W	2.14	48	2M456W	7.45	79
1E104W	3.19	87	2M081W	2.14	77	2M458B	7.45	79
1E129W	4.99	87	2M104B	8.70	77	2M458B	7.45	50
1E129W	4.99	59	2M104B	8.70	48	2M458E	7.45	50
1E139W	5.57	59	2M104E	8.70	48	2M458E	7.45	79
1E139W	5.57	87	2M104E	8.70	77	2M458W	7.45	50
1E156W	4.62	87	2M104W	8.70	48	2M458W	7.45	79
1E156W	4.62	60	2M104W	8.70	77	2S001	226.90	83
1E160W	3.33	59	2M124E	16.76	77	2S001	226.90	53
1E160W	3.33	87	2M124E	16.76	48	2S001	226.90	47
1E163W	3.81	87	2M124W	16.76	48	2S001	226.90	43
1E163W	3.81	59	2M124W	16.76	77	2S298B	7.71	36

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2S298E	7.71	36	2W086G	5.59	53	2Z260B	6.58	45
2S298G	7.71	36	2W086W	5.59	53	2Z260G	6.58	45
2S298W	7.71	36	2W088G	4.99	53	2Z260W	6.58	45
2S299B	7.12	36	2W088W	4.99	53	2Z292B	7.55	46
2S299E	7.12	36	2W102G	5.81	53	2Z292G	7.55	46
2S299G	7.12	36	2W102G	5.81	46	2Z292W	7.55	46
2S299W	7.12	36	2W102G •	5.81	93	2Z347G	6.74	47
2S355W	10.21	76	2W105G	5.71	51	2Z349G	6.38	47
2S355W	10.21	27	2W105W	5.71	51	2Z359G	12.24	45
2S355W•	10.21	67	2W160G	5.71	51	2Z359G •	12.24	93
2S356W	16.81	28	2W160W	5.71	51	3CS190SG	64.13	75
2S356W	16.81	76	2W163G	6.04	52	3CS649SG	34.40	76
2S356W•	16.81	67	2W163W	6.04	52	3S001	290.34	43
2S360G	11.77	29	2W190G	5.59	52	3S001	290.34	83
2S398B	8.29	29	2W190W	5.59	52	3S042G	58.37	23
2S398G	8.29	29	2W260W	5.59	52	3S043B	80.67	23
2S398W	8.29	29	2W292G	5.71	52	3S043G	80.67	74
2S399B	8.29	29	2W292W	5.71	52	3S043G	80.67	23
2S399G	8.29	29	2Z073B	21.85	44	3S044B	105.64	23
2S399W	8.29	29	2Z073W	21.85	44	3S044G	105.64	74
2S402B	10.68	29	2Z074G	29.12	44	3S044G	105.64	23
2S402G	10.68	29	2Z081B	2.14	44	3S074B	105.23	23
2S402W	10.68	29	2Z081G	2.14	44	3S074G	105.23	69
2S403B	8.49	37	2Z081W	2.14	44	3S074G	105.23	23
2S403E	8.49	37	2Z086B	5.02	47	3S082B	8.09	23
2S403G	8.49	37	2Z086G	5.02	47	3S082G	8.09	69
2S403W	8.49	37	2Z086W	5.02	47	3S082G	8.09	23
2S404B	5.20	29	2Z088B	5.15	47	3S083B	10.48	23
2S404W	5.20	29	2Z088G	5.15	47	3S083G	10.48	69
2S498B	9.19	56	2Z088W	5.15	47	3S083G	10.48	23
2S499B	9.19	56	2Z104B	6.02	44	3S084	19.58	69
2S503B	9.58	56	2Z104G	6.02	44	3S084	19.58	24
2V004W	2.23	57	2Z104W	6.02	44	3S094B	37.19	25
2V411G	194.60	56	2Z124W	10.46	44	3S094G	37.19	74
2V412G	147.96	56	2Z124W •	10.46	93	3S094G	37.19	25
2V414G	122.93	56	2Z128W	10.72	83	3S105B	30.44	24
2V415G	15.60	56	2Z128W	10.72	47	3S105G	30.44	74
2V416G	15.60	56	2Z160B	7.24	44	3S105G	30.44	24
2V417G	10.24	56	2Z160G	7.24	44	3S116B	2.11	32
2V418G	20.56	56	2Z160W	7.24	44	3S116G	2.11	32
2V500W	309.13	56	2Z161B	7.67	45	3S116G	2.11	83
2V501G	61.33	56	2Z161G	7.67	45	3S124B	17.74	24
2V502G	110.57	56	2Z161W	7.67	45	3S124G	17.74	69
2V510W	309.13	86	2Z163B	7.85	45	3S124G	17.74	24
2V510W	309.13	56	2Z163G	7.85	45	3S130G	3.44	32
2V511G	349.70	56	2Z163W	7.85	45	3S130G	3.44	83
2V801W	46.13	54	2Z190B	10.58	45	3S161B	36.04	26
2V805W	54.38	85	2Z190G	10.58	45	3S161G	36.04	74
2V805W	54.38	54	2Z190W	10.58	45	3S161G	36.04	26
2W073G	18.84	51	2Z210B	13.69	46	3S162G	44.93	74
2W073W	18.84	51	2Z210G	13.69	46	3S162G	44.93	26
2W081G	1.60	51	2Z210W	13.69	46	3S163B	36.04	26
2W081W	1.60	51	2Z230W	25.03	46	3S163G	36.04	26

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3S163G	36.04	74	4CS896SE	76.77	75	4M260W	8.21	78
3S190B	64.13	28	4CS897SE	60.71	72	4M292B	6.28	49
3S190G	64.13	28	4M073B	22.59	48	4M292B	6.28	78
3S210G	64.13	28	4M073B	22.59	77	4M292E	6.28	49
3S274B	70.81	31	4M073E	22.59	48	4M292E	6.28	78
3S274G	70.81	76	4M073E	22.59	77	4M292W	6.28	49
3S274G	70.81	31	4M073W	22.59	48	4M292W	6.28	78
3S288B	47.16	43	4M073W	22.59	77	4S001	287.33	43
3S292B	35.05	38	4M081B	1.04	48	4S001	287.33	83
3S292B	35.05	31	4M081B	1.04	77	4S042B	52.40	23
3S292G	35.05	73	4M081E	1.04	48	4S042G	52.40	23
3S292G	35.05	31	4M081E	1.04	77	4S043B	70.60	23
3S292G	35.05	38	4M081W	1.04	48	4S043G	70.60	23
3S300B	14.57	42	4M081W	1.04	77	4S043W	70.60	23
3S300G	15.40	73	4M104B	4.25	48	4S044B	95.25	23
3S302B	12.76	42	4M104B	4.25	77	4S044E	95.25	74
3S302G	12.76	73	4M104E	4.25	48	4S044G	95.25	23
3S302G	12.76	42	4M104E	4.25	77	4S044W	95.25	23
3S319B	16.78	30	4M104W	4.25	48	4S050G	63.67	23
3S319G	16.78	30	4M104W	4.25	77	4S073B	67.92	33
3S323G	22.25	30	4M124E	8.98	48	4S073B	67.92	23
3S414G	123.44	73	4M124E	8.98	77	4S073E	67.92	69
3S414G	123.44	43	4M124W	8.98	48	4S073E	67.92	33
3S435G	37.55	70	4M124W	8.98	77	4S073E	67.92	23
3S435G	37.55	27	4M160B	6.35	48	4S073G	67.92	23
3S440B	44.30	27	4M160B	6.35	77	4S073G	67.92	33
3S440G	44.30	70	4M160E	6.35	48	4S073W	67.92	23
3S440G	44.30	27	4M160E	6.35	77	4S073W	67.92	33
3S530B	98.73	43	4M160W	6.35	48	4S074B	90.55	23
3S649B	34.40	29	4M160W	6.35	77	4S074B	90.55	33
3S649G	34.40	29	4M161B	7.77	49	4S074E	90.55	33
4A830W	5.61	86	4M161B	7.77	78	4S074E	90.55	23
4A830W	5.61	57	4M161E	7.77	49	4S074E	90.55	69
4CS319SE	14.07	72	4M161E	7.77	78	4S074G	90.55	23
4CS474SE	73.29	73	4M161W	7.77	49	4S074G	90.55	33
4CS491SE	258.39	71	4M161W	7.77	78	4S074W	90.55	23
4CS574SE	73.29	73	4M163B	5.90	49	4S074W	90.55	33
4CS585SE	20.17	72	4M163B	5.90	78	4S082B	6.92	33
4CS586SE	20.17	72	4M163E	5.90	49	4S082B	6.92	23
4CS588SE	15.08	72	4M163E	5.90	78	4S082E	6.92	33
4CS590SE	29.23	76	4M163W	5.90	49	4S082E	6.92	23
4CS829SE	146.01	71	4M163W	5.90	78	4S082E	6.92	69
4CS830SE	148.11	75	4M190B	10.15	49	4S082G	6.92	23
4CS831SE	146.01	71	4M190B	10.15	78	4S082G	6.92	33
4CS832SE	146.01	71	4M190E	10.15	49	4S082W	6.92	23
4CS834SE	146.01	71	4M190E	10.15	78	4S082W	6.92	33
4CS852SE	123.80	75	4M190W	10.15	49	4S083B	8.98	33
4CS889SE	60.11	71	4M190W	10.15	78	4S083B	8.98	23
4CS890SE	58.33	71	4M260B	8.21	49	4S083E	8.98	33
4CS891SE	59.23	75	4M260B	8.21	78	4S083E	8.98	23
4CS892SE	58.36	71	4M260E	8.21	49	4S083E	8.98	69
4CS893SE	110.69	71	4M260E	8.21	78	4S083G	8.98	23
4CS895SE	60.71	72	4M260W	8.21	49	4S083G	8.98	33

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4S083W	8.98	23	4S124W	15.85	24	4S230G	148.11	28
4S083W	8.98	33	4S124W	15.85	34	4S230W	148.11	28
4S084	19.98	24	4S125B	24.07	34	4S250G	184.65	29
4S084	19.98	33	4S125B	24.07	24	4S260B	47.41	35
4S084	19.98	69	4S125E	24.07	69	4S260E	47.41	70
4S085	133.68	69	4S125E	24.07	34	4S260E	47.41	35
4S085	133.68	33	4S125E	24.07	24	4S260G	47.41	35
4S085	133.68	24	4S125G	24.07	24	4S263B	44.63	35
4S086	64.95	69	4S125G	24.07	34	4S263E	44.63	70
4S086	64.95	33	4S130G	4.77	32	4S263E	44.63	35
4S086	64.95	24	4S149	14.25	12	4S263G	44.63	35
4S095B	32.09	34	4S149	14.25	7	4S268B	43.06	35
4S095B	32.09	25	4S159	15.18	7	4S268E	43.06	35
4S095E	32.09	74	4S159	15.18	13	4S268E	43.06	70
4S095G	32.09	25	4S160B	46.61	26	4S268G	43.06	35
4S095G	32.09	34	4S160G	46.61	26	4S274B	71.04	31
4S096B	35.00	25	4S160W	46.61	26	4S274G	71.04	31
4S096E	35.00	74	4S161B	41.96	26	4S274W	71.04	31
4S096G	35.00	25	4S161E	41.96	74	4S275B	37.62	38
4S097G	36.86	25	4S161G	41.96	26	4S275B	37.62	31
4S098G	36.86	25	4S161W	41.96	26	4S275G	37.62	31
4S104B	15.23	34	4S162G	60.22	26	4S275G	37.62	38
4S104B	15.23	24	4S163B	41.96	26	4S281G	132.13	83
4S104E	15.23	69	4S163G	41.96	26	4S281G	132.13	42
4S104E	15.23	34	4S163W	41.96	26	4S283G	127.28	42
4S104E	15.23	24	4S164B	59.76	26	4S283G	127.28	83
4S104G	15.23	24	4S164G	59.76	26	4S288B	70.37	43
4S104G	15.23	34	4S166G	46.47	26	4S288G	70.37	43
4S104W	15.23	24	4S167G	53.47	26	4S290B	58.36	36
4S104W	15.23	34	4S169B	98.72	31	4S290E	58.36	36
4S105B	32.86	34	4S169G	98.72	31	4S290G	58.36	36
4S105B	32.86	24	4S169W	98.72	31	4S291G	233.16	29
4S105E	32.86	74	4S173E	52.71	74	4S292B	32.81	31
4S105G	32.86	24	4S173G	52.71	27	4S292B	32.81	38
4S105G	32.86	34	4S179G	59.61	27	4S292E	32.81	38
4S105W	32.86	24	4S190B	59.23	28	4S292E	32.81	31
4S105W	32.86	34	4S190G	59.23	28	4S292E	32.81	73
4S106G	44.78	25	4S190W	59.23	28	4S292G	32.81	31
4S107E	27.57	74	4S195B	76.77	28	4S292G	32.81	38
4S116B	6.61	32	4S195G	76.77	28	4S292W	32.81	31
4S116G	6.61	32	4S195W	76.77	28	4S292W	32.81	38
4S116W	6.61	32	4S200B	85.91	28	4S296B	23.13	38
4S120W	18.13	81	4S200G	85.91	28	4S296B	23.13	32
4S120W	18.13	40	4S205B	28.31	24	4S296E	23.13	73
4S121W	19.33	81	4S205G	28.31	24	4S296E	23.13	38
4S121W	19.33	40	4S205W	28.31	24	4S296E	23.13	32
4S124B	15.85	34	4S206B	47.37	25	4S296G	23.13	32
4S124B	15.85	24	4S206B	47.37	34	4S296G	23.13	38
4S124E	15.85	34	4S210B	88.05	28	4S296W	23.13	32
4S124E	15.85	24	4S210G	88.05	28	4S296W	23.13	38
4S124E	15.85	69	4S220B	85.91	28	4S298	16.08	25
4S124G	15.85	24	4S220G	85.91	28	4S298	16.08	83
4S124G	15.85	34	4S230B	148.11	28	4S299	18.52	25

Cat no	Price £ per piece	Page no	Cat No	Price £ per piece	Page no	Cat No	Price £ per piece	Page no
4S299	18.52	83	4S391G	22.73	43	4S469B	103.99	37
4S300B	13.58	42	4S391G	22.73	84	4S469E	103.99	37
4S300E	14.37	73	4S392	39.56	43	4S469E	103.99	72
4S300G	13.58	42	4S392	39.56	84	4S469G	103.99	37
4S300W	13.58	42	4S394G	28.68	43	4S474B	73.29	38
4S302B	9.71	42	4S395G	66.58	28	4S474E	73.29	38
4S302E	9.71	42	4S410B	65.94	36	4S474G	73.29	38
4S302E	9.71	73	4S410E	65.94	36	4S483B	18.13	37
4S302G	9.71	42	4S410E	65.94	71	4S483E	18.13	37
4S302W	9.71	42	4S410G	65.94	36	4S483E	18.13	72
4S303W	73.51	83	4S414G	136.95	43	4S483G	18.13	37
4S303W	73.51	47	4S414G	136.95	73	4S484B	18.13	37
4S303W	73.51	42	4S416B	7.34	34	4S484E	18.13	37
4S303W	73.51	53	4S416E	7.34	70	4S484E	18.13	72
4S304W	166.13	42	4S416E	7.34	34	4S484G	18.13	37
4S304W	166.13	83	4S416G	7.34	34	4S490B	58.33	36
4S306G	107.89	42	4S430B	146.01	36	4S490E	58.33	36
4S308B	118.61	42	4S430E	146.01	36	4S490G	58.33	36
4S310B	49.06	42	4S430G	146.01	36	4S491B	258.39	36
4S310E	49.06	42	4S435B	39.17	27	4S491E	258.39	36
4S310E	49.06	73	4S435B	39.17	35	4S491G	258.39	36
4S310G	49.06	42	4S435E	39.17	35	4S492B	41.32	38
4S310W	49.06	42	4S435E	39.17	27	4S492E	41.32	38
4S319B	14.07	37	4S435E	39.17	70	4S492E	41.32	73
4S319B	14.07	30	4S435G	39.17	27	4S492G	41.32	38
4S319E	14.07	37	4S435G	39.17	35	4S493B	110.69	37
4S319E	14.07	30	4S435W	39.17	27	4S493E	110.69	37
4S319G	14.07	30	4S435W	39.17	35	4S493G	110.69	37
4S319G	14.07	37	4S440B	53.72	27	4S495B	60.71	36
4S319W	14.07	30	4S440E	53.72	70	4S495E	60.71	36
4S319W	14.07	37	4S440G	53.72	27	4S495G	60.71	36
4S321B	17.32	30	4S440W	53.72	27	4S496B	31.57	34
4S321G	17.32	30	4S444B	53.72	27	4S496E	31.57	34
4S321W	17.32	30	4S444G	53.72	27	4S496E	31.57	70
4S322B	17.32	30	4S444W	53.72	27	4S496G	31.57	34
4S322G	17.32	30	4S445B	59.76	27	4S502B	133.68	31
4S322W	17.32	30	4S445G	59.76	27	4S502G	133.68	31
4S323G	22.00	30	4S445W	59.76	27	4S561B	52.34	26
4S326B	83.05	43	4S450B	43.70	35	4S561G	52.34	26
4S326G	83.05	43	4S450E	43.70	35	4S561W	52.34	26
4S361G	41.30	26	4S450E	43.70	70	4S574B	73.29	38
4S363B	41.30	26	4S450G	43.70	35	4S574E	73.29	38
4S363G	41.30	26	4S461B	41.26	35	4S574G	73.29	38
4S363W	41.30	26	4S461E	41.26	70	4S581B	45.01	29
4S369G	113.43	31	4S461E	41.26	35	4S581G	45.01	29
4S374G	72.13	31	4S461G	41.26	35	4S582B	36.06	29
4S380G	17.46	43	4S461W	41.26	35	4S582G	36.06	29
4S380G	17.46	83	4S462B	44.63	35	4S583B	17.49	30
4S383G	20.23	43	4S462G	44.63	35	4S583G	17.49	30
4S384G	27.23	43	4S463B	41.21	35	4S583W	17.49	30
4S384G	27.23	84	4S463E	41.21	70	4S584B	15.20	30
4S385G	59.27	43	4S463E	41.21	35	4S584G	15.20	30
4S385G	59.27	84	4S463G	41.21	35	4S584W	15.20	30

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4S585B	20.17	37	4S745W	41.78	40	4T825W	9.14	13
4S585E	20.17	37	4S771W	53.89	39	4T826B	11.34	13
4S585G	20.17	37	4S771W	53.89	80	4T826N	11.34	13
4S586B	20.17	37	4S772W	46.77	39	4T826W	11.34	13
4S586E	20.17	37	4S772W	46.77	80	4T830B	47.29	14
4S586G	20.17	37	4S790W	53.72	40	4T830N	47.29	14
4S588B	15.08	30	4S790W	53.72	81	4T830W	47.29	14
4S588B	15.08	37	4S791W	31.77	39	4T832B	13.55	13
4S588G	15.08	30	4S791W	31.77	80	4T832N	13.55	13
4S588G	15.08	37	4S792W	33.61	39	4T832W	13.55	13
4S588W	15.08	30	4S792W	33.61	80	4T833B	5.43	12
4S588W	15.08	37	4T731B	7.68	12	4T833N	5.43	12
4S589B	24.52	30	4T731W	7.68	12	4T833W	5.43	12
4S589G	24.52	30	4T803B	15.34	11	4T834B	4.62	12
4S589W	24.52	30	4T803N	15.34	11	4T834N	4.62	12
4S590B	29.23	30	4T803W	15.34	11	4T834W	4.62	12
4S590B	29.23	37	4T804B	21.31	11	4T835B	37.49	13
4S590E	29.23	37	4T804N	21.31	11	4T835N	37.49	13
4S590E	29.23	30	4T804W	21.31	11	4T835W	37.49	13
4S590G	29.23	30	4T805B	9.53	10	4T836B	13.09	12
4S590G	29.23	37	4T805N	9.53	10	4T836W	13.09	12
4S595E	72.56	76	4T805W	9.53	10	4T837B	16.33	12
4S595G	72.56	27	4T806B	15.82	10	4T837W	16.33	12
4S597E	65.99	72	4T806N	15.82	10	4T838B	18.34	13
4S597G	65.99	27	4T806W	15.82	10	4T838N	18.34	13
4S597G	65.99	35	4T807B	16.78	10	4T838W	18.34	13
4S600W	30.48	81	4T807N	16.78	10	4T855B	51.46	13
4S600W	30.48	40	4T807W	16.78	10	4T858B	51.46	13
4S601W	209.09	39	4T809B	15.19	10	4T860G	2.39	14
4S601W	209.09	80	4T809N	15.19	10	4T861G	2.44	14
4S602W	209.09	39	4T809W	15.19	10	4T862B	19.51	13
4S602W	209.09	80	4T810B	6.08	10	4T862N	19.51	13
4S603W	209.09	80	4T810N	6.08	10	4T862W	19.51	13
4S603W	209.09	39	4T810W	6.08	10	4T864B	2.40	14
4S604W	209.09	80	4T811B	7.02	10	4T872B	21.66	10
4S604W	209.09	39	4T811N	7.02	10	4T872N	21.66	10
4S605W	209.09	80	4T811W	7.02	10	4T872W	21.66	10
4S605W	209.09	39	4T816B	2.23	14	4T874B	43.34	10
4S606W	209.09	80	4T816N	2.23	14	4T874N	43.34	10
4S606W	209.09	39	4T816W	2.23	14	4T874W	43.34	10
4S612W	209.09	39	4T818B	25.74	11	4T882B	23.09	12
4S612W	209.09	80	4T818W	25.74	11	4T882N	23.09	12
4S613W	209.09	39	4T819B	4.10	10	4T882W	23.09	12
4S613W	209.09	80	4T819N	4.10	10	4T884B	47.29	12
4S614W	209.09	39	4T819W	4.10	10	4T884N	47.29	12
4S614W	209.09	80	4T823B	14.44	12	4T884W	47.29	12
4S615W	209.09	39	4T823N	14.44	12	4T886B	32.64	12
4S615W	209.09	80	4T823W	14.44	12	4T886N	32.64	12
4S616W	209.09	80	4T824B	15.94	12	4T886W	32.64	12
4S701W	54.94	42	4T824N	15.94	12	4T888B	65.08	12
4S711W	37.67	80	4T824W	15.94	12	4T888N	65.08	12
4S711W	37.67	39	4T825B	9.14	13	4T888W	65.08	12
4S745W	41.78	81	4T825N	9.14	13	4T894B	17.09	11

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4T999B	79.95	11	4W190W	3.37	52	4Z364W	4.10	46
4T999N	79.95	11	4W260B	3.37	52	5A830W	6.02	57
4T999W	79.95	11	4W260G	3.37	52	5A830W	6.02	86
4V001W	1.82	57	4W260W	3.37	52	5M073B	24.65	48
4V003W	2.23	57	4W292B	3.18	52	5M073B	24.65	77
4V801W	15.59	85	4W292G	3.18	52	5M073E	24.65	48
4V801W	15.59	54	4W292W	3.18	52	5M073E	24.65	77
4V803W	19.08	54	4Z073B	13.78	44	5M073W	24.65	48
4V803W	19.08	85	4Z073W	13.78	44	5M073W	24.65	77
4V804W	29.26	54	4Z074G	18.38	44	5M081B	1.06	48
4V806W	16.95	55	4Z081B	1.04	44	5M081B	1.06	77
4V806W	16.95	85	4Z081G	1.04	44	5M081E	1.06	48
4V807W	23.14	54	4Z081W	1.04	44	5M081E	1.06	77
4V808W	29.41	54	4Z104B	2.94	44	5M081W	1.06	48
4V809W	16.36	85	4Z104G	2.94	44	5M081W	1.06	77
4V809W	16.36	54	4Z104W	2.94	44	5M104B	5.36	48
4V811W	13.89	55	4Z120W	4.29	46	5M104B	5.36	77
4V812W	20.36	85	4Z124G	6.17	44	5M104E	5.36	48
4V812W	20.36	54	4Z124W	6.17	27	5M104E	5.36	77
4V814W	27.15	86	4Z124W	6.17	44	5M104W	5.36	48
4V814W	27.15	54	4Z124W	6.17	76	5M104W	5.36	77
4V816W	27.15	54	4Z124W*	6.17	67	5M124E	9.38	48
4V825W	25.98	85	4Z127W	8.61	47	5M124E	9.38	77
4V825W	25.98	55	4Z127W	8.61	83	5M124W	9.38	48
4V901W	22.33	54	4Z128W	8.13	83	5M124W	9.38	77
4W073B	9.69	51	4Z128W	8.13	47	5M160B	7.48	48
4W073G	9.69	51	4Z160B	3.91	44	5M160B	7.48	77
4W073W	9.69	51	4Z160G	3.91	44	5M160E	7.48	48
4W081B	0.97	51	4Z160W	3.91	44	5M160E	7.48	77
4W081G	0.97	51	4Z161B	4.11	45	5M160W	7.48	48
4W081W	0.97	51	4Z161G	4.11	45	5M160W	7.48	77
4W102B	6.04	46	4Z161W	4.11	45	5M161B	9.38	49
4W102B	6.04	53	4Z163B	3.67	45	5M161B	9.38	78
4W102G	6.04	46	4Z163G	3.67	45	5M161E	9.38	49
4W102G	6.04	53	4Z163W	3.67	45	5M161E	9.38	78
4W102W	6.04	46	4Z185W	10.24	46	5M161W	9.38	49
4W102W	6.04	53	4Z190B	4.87	45	5M161W	9.38	78
4W105B	3.18	51	4Z190G	4.87	45	5M163B	6.63	49
4W105G	3.18	51	4Z190W	4.87	45	5M163B	6.63	78
4W105W	3.18	51	4Z210W	7.72	46	5M163E	6.63	49
4W160B	2.93	51	4Z260B	5.32	45	5M163E	6.63	78
4W160G	2.93	51	4Z260G	5.32	45	5M163W	6.63	49
4W160W	2.93	51	4Z260W	5.32	45	5M163W	6.63	78
4W161B	3.18	51	4Z263B	3.12	45	5M190B	11.57	49
4W161G	3.18	51	4Z263W	3.12	45	5M190B	11.57	78
4W161W	3.18	51	4Z292B	4.06	46	5M190E	11.57	49
4W163B	3.18	52	4Z292G	4.06	46	5M190E	11.57	78
4W163G	3.18	52	4Z292W	4.06	46	5M190W	11.57	49
4W163W	3.18	52	4Z343G	3.52	58	5M190W	11.57	78
4W166B	2.93	52	4Z343G	3.52	47	5M260B	9.89	49
4W166W	2.93	52	4Z363W	6.31	86	5M260B	9.89	78
4W190B	3.37	52	4Z363W	6.31	46	5M260E	9.89	49
4W190G	3.37	52	4Z364G	4.10	46	5M260E	9.89	78

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5M260W	9.89	49	5V812W	24.93	85	5W190B	2.94	52
5M260W	9.89	78	5V814W	34.27	54	5W190G	2.94	52
5M292B	6.17	49	5V814W	34.27	86	5W190W	2.94	52
5M292B	6.17	78	5V816W	34.28	54	5W260B	3.37	52
5M292E	6.17	49	5V823W	34.18	55	5W260G	3.37	52
5M292E	6.17	78	5V824W	37.67	55	5W260W	3.37	52
5M292W	6.17	49	5V824W	37.67	85	5W292B	2.93	52
5M292W	6.17	78	5V842W	28.89	55	5W292G	2.93	52
5M455B	3.95	50	5V846W	26.31	55	5W292W	2.93	52
5M455B	3.95	79	5V846W	26.31	85	5Z073B	17.03	44
5M455E	3.95	50	5V848W	66.18	55	5Z073W	17.03	44
5M455E	3.95	79	5V860W	58.14	55	5Z074G	22.67	44
5M455W	3.95	50	5V864W	31.43	86	5Z081B	1.06	44
5M455W	3.95	79	5V864W	31.43	57	5Z081G	1.06	44
5T503B	23.23	19	5V869W	46.13	57	5Z081W	1.06	44
5T504B	26.48	19	5V870W	26.87	57	5Z085B	3.67	47
5T508B	20.77	19	5V870W	26.87	86	5Z085G	3.67	47
5T509B	13.91	19	5V871W	14.40	57	5Z085W	3.67	47
5T510B	6.75	19	5V871W	14.40	86	5Z104B	3.02	44
5T511B	10.18	19	5V901W	22.79	54	5Z104G	3.02	44
5T516B	2.39	20	5V902W	16.59	54	5Z104W	3.02	44
5T519B	5.08	19	5W073B	11.20	51	5Z120W	4.29	46
5T564B	2.58	20	5W073G	11.20	51	5Z124G	6.02	44
5T574B	62.61	19	5W073W	11.20	51	5Z124W	6.02	44
5T594B	22.36	19	5W081B	0.91	51	5Z127W	9.10	47
5T595B	23.06	20	5W081G	0.91	51	5Z127W	9.10	83
5T596B	24.40	20	5W081W	0.91	51	5Z128W	8.61	47
5T999B	93.06	19	5W084B	2.93	53	5Z128W	8.61	83
5V002W	1.82	57	5W084G	2.93	53	5Z160B	4.62	44
5V407W	40.79	57	5W084W	2.93	53	5Z160G	4.62	44
5V407W	40.79	58	5W102B	6.04	46	5Z160W	4.62	44
5V407W	40.79	88	5W102B	6.04	53	5Z161B	4.91	45
5V408W	48.09	55	5W102G	6.04	46	5Z161G	4.91	45
5V468W	46.78	58	5W102G	6.04	53	5Z161W	4.91	45
5V468W	46.78	88	5W102G •	6.04	93	5Z163B	4.11	45
5V801W	17.74	54	5W102W	6.04	46	5Z163G	4.11	45
5V801W	17.74	85	5W102W	6.04	53	5Z163W	4.11	45
5V802W	20.75	85	5W105B	3.37	51	5Z185W	10.61	46
5V802W	20.75	55	5W105G	3.37	51	5Z190B	5.13	45
5V803W	28.59	54	5W105W	3.37	51	5Z190G	5.13	45
5V803W	28.59	85	5W160B	2.94	51	5Z190W	5.13	45
5V805W	31.29	85	5W160G	2.94	51	5Z210B	9.38	46
5V805W	31.29	54	5W160W	2.94	51	5Z210G	9.38	46
5V806W	14.08	55	5W161B	3.18	51	5Z210W	9.38	46
5V806W	14.08	85	5W161G	3.18	51	5Z230W	16.53	46
5V807W	26.96	85	5W161W	3.18	51	5Z260B	5.17	45
5V807W	26.96	54	5W163B	2.93	52	5Z260G	5.17	45
5V808W	35.28	86	5W163G	2.93	52	5Z260W	5.17	45
5V808W	35.28	54	5W163W	2.93	52	5Z263B	3.63	45
5V809W	21.72	54	5W166B	2.93	52	5Z263G	3.63	45
5V809W	21.72	85	5W166G	2.93	52	5Z263W	3.63	45
5V811W	15.07	55	5W166W	2.93	52	5Z292B	4.27	46
5V812W	24.93	54	5W185B	3.76	53	5Z292G	4.27	46

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5Z292W	4.27	46
5Z344G	3.63	47
5Z363W	6.31	46
5Z363W	6.31	86
5Z364W	4.62	46
5Z455B	2.76	47
5Z455G	2.76	47
5Z455W	2.76	47
6CS218SE	256.64	75
6CS474SE	156.77	73
6CS897SE	143.18	75
6S043E	262.97	74
6S043G	262.97	23
6S044G	342.17	23
6S074B	316.81	23
6S074B	316.81	33
6S074E	316.81	33
6S074E	316.81	23
6S074E	316.81	69
6S074G	316.81	23
6S074G	316.81	33
6S082B	25.39	23
6S082B	25.39	33
6S082E	25.39	33
6S082E	25.39	69
6S082G	25.39	23
6S082G	25.39	33
6S084	42.16	24
6S084	42.16	33
6S084	42.16	69
6S085	156.97	24
6S085	156.97	33
6S085	156.97	69
6S086	92.59	24
6S086	92.59	33
6S086	92.59	69
6S099E	82.16	74
6S099G	82.16	25
6S104B	36.87	24
6S104B	36.87	34
6S104E	36.87	34
6S104E	36.87	24
6S104E	36.87	69
6S104G	36.87	24
6S104G	36.87	34
6S105E	92.59	74
6S105G	92.59	24
6S105G	92.59	34
6S124B	54.24	24
6S124B	54.24	34
6S124E	54.24	69
6S124G	54.24	24
6S124G	54.24	34

Cat No	Price £ per piece	Page no
6S130G	8.70	32
6S161G	142.09	26
6S163G	142.09	26
6S190G	256.64	28
6S198G	197.78	28
6S210G	256.64	28
6S218G	197.78	28
6S238G	349.53	29
6S274G	192.46	31
6S292B	71.74	31
6S292B	71.74	38
6S292G	71.74	31
6S292G	71.74	38
6S302G	36.43	42
6S323G	34.10	30
6S416E	18.89	34
6S416E	18.89	70
6S440G	158.79	27
6S461B	108.69	35
6S461E	108.69	35
6S461E	108.69	70
6S461G	108.69	35
6S463B	111.33	35
6S463E	111.33	35
6S463E	111.33	70
6S463G	111.33	35
6S474B	156.77	38
6S474G	156.77	38
6S490B	185.58	36
6S490E	185.58	36
6S490E	185.58	71
6S490G	185.58	36
6S498B	143.18	36
6S498E	143.18	36
6S498G	143.18	36
6S499B	59.51	34
6S499E	59.51	34
6S499E	59.51	70
6S499G	59.51	34
6T603B	72.08	21
6T603G	72.08	21
6T606B	51.32	21
6T606G	51.32	21
6T609B	37.37	21
6T609G	37.37	21
6T610B	8.79	21
6T610G	8.79	21
6T611B	25.46	21
6T611G	25.46	21
6T616B	2.67	22
6T616G	2.67	22
6T619B	13.09	21
6T619G	13.09	21

Cat No	Price £ per piece	Page no
6T664B	2.90	22
6T674B	126.26	21
6T674G	126.26	21
6T694B	28.34	21
6T694G	28.34	21
6T695B	25.31	21
6T696B	26.78	22
6T999B	129.18	21
6T999G	136.65	21
8T806B	17.88	15
8T806W	17.88	15
8T807B	17.32	15
8T807W	17.32	15
8T808B	17.32	15
8T808W	17.32	15
8T809B	14.00	15
8T809W	14.00	15
8T816B	2.10	16
8T816W	2.10	16
8T819B	5.19	15
8T819W	5.19	15
8T840B	7.88	15
8T840W	7.88	15
8T841B	11.01	15
8T841W	11.01	15
8T843B	20.61	15
8T843W	20.61	15
8T844B	21.69	16
8T844W	21.69	16
8T849B	6.91	15
8T849W	6.91	15
8T850B	7.88	15
8T850W	7.88	15
8T851B	11.01	15
8T851W	11.01	15
8T853B	18.33	16
8T853W	18.33	16
8T854B	21.69	16
8T854W	21.69	16
8T864B	2.00	16
8T874B	57.62	15
8T874W	57.62	15
8T894B	20.54	16
8T894W	20.54	16
8T999B	88.72	16
8T999W	88.72	16
9T903B	18.37	17
9T903G	18.37	17
9T903N	18.37	17
9T903W	18.37	17
9T904B	21.06	17
9T904G	21.06	17
9T904N	21.06	17

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9T904W	21.06	17	15UH382	77.07	122	3003492	4.48	95
9T906B	14.21	17	15UH383	91.05	122	3003493	4.99	95
9T906G	14.21	17	15UH395	16.05	122	3003495	7.10	95
9T906N	14.21	17	15UH402	38.78	122	3003497	9.01	95
9T906W	14.21	17	15UH408	126.23	122	3003499	28.31	95
9T909B	11.55	17	15UH475	118.98	122	3003505	9.88	95
9T909G	11.55	17	15UH476	118.98	122	3003506	9.76	95
9T909N	11.55	17	15UH492	224.18	123	3003507	11.68	95
9T909W	11.55	17	15UH494	2.79	123	3003508	12.41	95
9T910B	5.05	17	15UH495	16.03	122	3003509	12.73	95
9T910G	5.05	17	15UH510	107.54	121	3003510	13.06	95
9T910N	5.05	17	15UH511	54.40	121	3003511	19.84	95
9T910W	5.05	17	15UH512	576.69	121	3003512	36.02	95
9T911B	7.11	17	15UH513	145.18	121	3003513*	166.93	95
9T911G	7.11	17	15UH524	34.02	122	3003515	423.03	95
9T911N	7.11	17	15UH529	9.56	121	3003516	27.09	96
9T911W	7.11	17	15UH605	18.43	120	3003550	20.53	95
9T916B	1.93	18	15UH606	8.83	120	3003554	20.01	95
9T916G	1.93	18	15UH607	17.43	121	3003561	2.21	90
9T916N	1.93	18	15UH608	29.08	120	3003563†	2.23	90
9T916W	1.93	18	15UH610	29.70	120	3003565	2.24	90
9T919B	4.02	17	15UH612	3.46	120	3003567†	2.99	90
9T919G	4.02	17	15UH613	0.38	120	3003569	3.38	90
9T919N	4.02	17	15UKPK1	893.93	119	3003570†	3.73	90
9T919W	4.02	17	15UKPK2	957.63	119	3003572	4.29	90
9T964B	1.91	18	15UKPK3	1019.09	119	3003573†	5.29	90
9T974B	47.49	17	16UH529	9.56	121	3003574	6.22	90
9T974G	47.49	17	3000177	4.24	68	3003575	7.54	90
9T974N	47.49	17	3003325	82.38	66	3003576	20.78	90
9T974W	47.49	17	3003331	163.30	66	3003577	6.09	90
9T994B	18.72	18	3003362	66.70	66	3003579†	8.17	90
9T994G	18.72	18	3003458	45.27	89	3003582	9.98	90
9T999B	80.95	18	3003459	56.74	89	3003583†	13.10	90
9T999G	80.95	18	3003460	81.62	89	3003584	31.77	90
9T999N	80.95	18	3003461	127.55	89	3003585	25.94	90
9T999W	80.95	18	3003462	170.12	89	3003587†	33.61	90
10UH600	18.05	120	3003463	270.97	89	3003588	72.12	90
10UH601	42.46	120	3003464	421.20	89	3003597	2.66	90
10UH602	43.29	120	3003465	16.12	89	3003598	2.99	90
10UH603	41.36	120	3003466	19.10	89	3003600	2.64	91
10UH604	14.52	120	3003467	26.28	89	3003602	7.54	91
15UH211 p/pack	42.15	121	3003468	30.38	89	3003603	7.49	91
15UH231	0.15	118	3003477	22.49	89	3003619	38.54	95
15UH232	12.50	118	3003478	5.11	95	3003620	38.29	95
15UH234	34.18	118	3003479	5.23	95	3003621	77.38	95
15UH237	403.53	118	3003480	5.40	95	3003622	5.64	91
15UH238	0.36	118	3003481	7.51	95	3003627	5.44	91
15UH302	38.78	121	3003482	7.32	95	3003628	4.42	92
15UH310	209.26	121	3003483	7.69	95	3003629	5.61	91
15UH316	193.83	121	3003484	13.60	95	3003630	5.64	92
15UH334	16.76	122	3003485	17.60	95	3003631	5.64	91
15UH372	49.34	122	3003489	5.24	95	3003632	5.65	92
15UH373	62.92	122	3003491	3.75	95	3003633	5.88	91

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3003638	5.84	92	3003792	12.44	91	3012211	85.28	66
3003641	6.55	91	3003798	2.71	89	3014918*	204.47	89
3003642	6.94	92	3003808	5.00	89	3017974*	132.14	94
3003649	6.58	91	3003809	5.00	89	3017975*	169.80	94
3003650	6.90	92	3003810	4.96	89	3017976*	205.09	94
3003652	8.78	92	3003815	7.96	89	3017978*	208.20	90
3003655	8.83	92	3003816	8.83	89	3017993	20.46	90
3003657	8.80	92	3003820	2.73	89	3018002*	159.44	92
3003662	11.40	91	3003821	2.93	89	3018003*	160.47	92
3003663	10.13	92	3003824	3.86	89	3018007	38.40	95
3003665	10.47	92	3003825	3.88	89	3018008	9.34	95
3003666	11.22	91	3003826	3.88	89	3018031	249.46	96
3003667	10.47	92	3003828	5.19	89	3018297	231.34	99
3003668	11.22	91	3003829	5.23	89	3018299	327.10	99
3003670	11.33	91	3003830	5.67	89	3018300	265.29	99
3003671	10.09	92	3003831	5.53	89	3018302	462.68	99
3003674	10.87	91	3003832	5.67	89	3018708	0.72	96
3003675	10.83	92	3003833	5.68	89	3018709	0.81	96
3003676	15.12	91	3003834	5.64	89	3018808*	56.17	89
3003677	15.06	92	3003835	5.65	89	3018809*	147.60	89
3003679	14.97	91	3003839	12.38	89	3018810*	204.47	89
3003685	14.97	91	3003840	12.39	89	3018818*	124.76	90
3003687	55.69	92	3003841	3.20	89	3018819*	303.84	90
3003688	52.06	91	3003843	3.87	89	3018821*	117.91	90
3003689	56.26	92	3003846	90.81	89	3018822*	162.98	90
3003690	52.11	91	3003847	89.96	89	3018826*	285.79	92
3003698*	112.05	92	3003848	89.96	89	3018828*	331.35	92
3003702*	111.57	92	3003856*	203.62	89	3018829*	419.15	92
3003704*	160.36	92	3003858	4.96	89	3018831*	111.57	92
3003705*	187.55	92	3003860	2.78	96	3018833*	160.94	92
3003709*	207.54	92	3003861	2.37	96	3018834*	187.55	92
3003710*	207.67	92	3003862	2.37	96	3018835*	187.55	92
3003713*	227.13	92	3003863	2.38	96	3018836*	189.33	92
3003718*	347.01	92	3003864	15.75	96	3018837*	188.77	92
3003719*	351.31	92	3003865	3.01	96	3020490	135.94	67
3003723*	331.56	92	3003866	5.64	96	3020491	135.94	67
3003724	5.33	91	3003867	7.04	96	3020492	135.94	67
3003726	5.64	92	3003868	22.78	96	3020493	135.94	67
3003727	5.62	92	3003869	6.63	96	3020494	135.94	67
3003728	20.60	91	3003870	6.74	96	3020495	135.94	67
3003736	24.43	94	3003873	21.42	96	3020496	135.94	67
3003739	32.41	94	3003925	45.67	96	3020497	135.94	67
3003740	33.61	94	3003940	2.21	91	3020498	135.94	67
3003743	80.11	94	3003943	25.29	90	3020499	135.94	67
3003753	17.91	91	3003944	3.17	91	3020500	135.94	67
3003755	38.04	94	3004370	363.67	99	3020506	27.89	67
3003756	37.72	94	3004371	64.80	99	3020507	37.05	67
3003764	38.13	94	3004372	126.88	99	3020508	39.84	67
3003774	41.15	94	3004378	247.39	99	3020509	108.06	68
3003775	46.42	94	3004379	329.59	99	3020510	9.90	68
3003776	45.93	94	3004380	291.45	99	3020511	13.57	68
3003777	50.98	94	3004381	363.47	99	3020513	183.01	68
3003791	89.80	91	3011162	35.43	105	3020514	15.31	68

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3023344	9.93	100	3023542	4.79	100	3052947	12.52	103
3023345	5.13	101	3023543	5.83	100	3052948	16.49	103
3023346	7.36	101	3023544	8.42	100	3052949	17.88	103
3023347	10.57	101	3023545	9.38	100	3053971	269.26	99
3023348	3.03	99	3023546	7.29	100	3061202	1098.09	99
3023359	3.95	99	3023547	9.25	100	3061211	14.68	99
3023360	5.94	99	3023548	11.27	100	3061212	21.12	99
3023361	5.85	102	3023549	12.60	100	3061213	32.05	99
3023362	10.00	102	3023550	5.36	102	3065639	81.59	99
3023363	3.78	100	3023551	6.12	102	3065640	77.12	99
3023364	4.76	100	3023552	7.95	102	3065641	74.98	99
3023365	6.75	100	3023553	17.52	102	3065642	86.90	100
3023488	10.33	99	3023554	16.90	102	3065643	88.43	100
3023489	6.11	102	3023555	12.19	100	3065644	122.24	101
3023490	6.78	102	3023557	12.40	101	3065645	97.60	101
3023491	14.51	102	3023558	13.84	101	3065646	94.02	101
3023492	21.10	102	3023559	14.38	101	3065647	83.28	101
3023493	28.08	102	3023560	17.87	101	3065902	67.45	67
3023494	5.14	102	3023561	4.39	102	3070629	245.26	95
3023495	3.80	102	3023562	4.87	102	3070630*	168.01	92
3023496	4.83	102	3023563	5.57	102	3070631*	79.45	94
3023497	7.57	102	3024664	29.47	101	3070632*	143.37	89
3023498	8.06	100	3024665	16.44	99	3070633*	112.05	91
3023499	11.70	100	3024666	20.60	100	3070634*	117.02	91
3023500	10.52	100	3024667	32.18	100	3074603	20.11	66
3023504	6.74	101	3024668	35.21	100	3074606	38.83	66
3023505	6.74	101	3027829	46.05	101	3074610	13.92	66
3023506	6.74	101	3027830	33.62	101	3074612	40.55	66
3023507	6.74	101	3027831	37.88	101	3074619	29.04	66
3023508	9.32	101	3027832	24.34	99	3074622	48.77	66
3023509	8.69	101	3027833	24.69	99	3074637	19.55	66
3023510	9.20	101	3027834	27.20	99	3074638	20.88	66
3023511	10.15	101	3027836	19.22	102	3074639	22.04	66
3023512	9.35	101	3027837	28.26	102	3074640	22.34	66
3023513	14.13	101	3027838	24.94	102	3074641	22.92	66
3023514	15.09	101	3027839	22.42	100	3074647	44.35	66
3023515	14.84	101	3027847	64.19	99	3074648	45.58	66
3023516	16.35	101	3027848	72.53	100	3074649	46.85	66
3023517	14.89	101	3027849	79.77	100	3074650	50.31	66
3023518	23.02	101	3027850	65.22	99	3074673	37.17	66
3023519	25.42	101	3027852	62.09	99	3074674	61.21	66
3023520	22.63	101	3027853	86.91	101	3074680	76.23	66
3023521	18.00	101	3027854	77.98	101	3074681	105.22	66
3023522	9.86	99	3027855	65.61	101	3074684	179.81	66
3023525	4.21	99	3027856	59.09	101	3074687	45.99	67
3023526	5.45	99	3028271	206.98	99	3074689	109.12	67
3023527	5.96	99	3041228	40.18	99	3074698	26.82	66
3023528	10.08	99	3043453	34.54	90	3074704	13.38	68
3023529	15.84	99	3043454	39.76	90	3074706	49.25	68
3023537	12.60	100	3043455	65.18	90	3074713	66.65	66
3023539	16.73	100	3043457	93.48	90	3074715	124.70	66
3023540	19.15	100	3052945	6.02	103	3075609	34.04	89
3023541	11.66	102	3052946	10.77	103	3075823	32.32	92

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3075824	7.49	90
4006554	8.82	68
4006556	20.43	68
4006566	17.64	67
4006568	66.09	67
4006571	155.86	68
4006573	397.78	68
4006583	1.72	68
4009725	51.39	91
4009748	25.97	96
4009750	44.22	96
4009751	84.97	96
4009761	7.63	96
4009793	5.26	94
4011390	438.84	97
4011393	448.74	97
4011396	2128.98	97
4011398	POA	97
4011401	POA	97
4011402	POA	97
4011403	589.77	97
4011404	974.91	97
4011453	13.02	97
4012113	3.25	93
4012114	4.08	93
4012117	4.49	93
4012118	5.23	93
4012121	4.70	93
4012122	5.71	93
4012125	4.89	93
4012126	5.77	93
4012131	5.25	93
4012132	6.60	93
4012137	5.74	93
4012138	6.67	93
4012141	6.02	93
4012142	6.58	93
4012146	6.72	93
4012147	8.17	93
4012151	24.32	93
4012155	24.66	93
4012159	28.70	93
4012326	4.26	94
4012329	2.98	93
4012331	5.96	93
4012333	7.16	93
4012335	6.11	93
4012337	6.28	93
4012339	4.86	93
4012341	6.61	93
4012343	5.47	93
4012345	23.34	93
4013355	4.38	103

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4013538	104.68	104
4013541	295.60	105
4013542	63.78	104
4013543	63.78	104
4013553	27.49	104
4013559	35.37	104
4013562	37.87	104
4013571	23.00	103
4013572	23.00	103
4013573	23.00	103
4020757	45.67	97
4023364	66.77	105
4023365	71.64	105
4023375	27.46	93
4023376	31.30	93
4025509	26.76	97
4025989	23.35	96
4025992	146.30	96
4026014	266.38	97
4026438	20.51	94
4026439	21.28	94
4026441	104.70	94
4026442	217.70	94
4031987	122.91	105
4031988	119.96	105
4032676	6.11	103
4032685	65.14	103
4032698	43.69	103
4032699	68.78	103
4032700	6.11	103
4032721	7.89	103
4032722	8.51	103
4032723	15.79	103
4032724	17.64	103
4035779	288.25	104
4035780	177.69	105
4036272	35.43	105
4036330	POA	96
4037451	10.82	103
4037512	19.82	103
4042219	306.58	91
4046556	109.89	104
4046557	109.89	104
4046558	116.14	104
4046559	116.14	104
4046560	169.83	104
4046691	121.52	104
4046694	121.52	104
4046695	128.36	104
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4053510	380.08	105
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4061068	130.49	95
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4064881	218.37	95
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4065000	239.32	97
4065001	239.32	97
4999998	62.68	105
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BV1 WH	29.17	61
BV3 WH	7.02	61
BV11 WH	7.36	61
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CV3 WH	7.02	61
CV11 WH	7.36	61
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FBP6 WH	54.44	62
FCP3 WH	27.24	62
FCP6 WH	54.44	62
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FCW30 WH	12.73	62
FSBW6 WH	2.41	62
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HD5/28W	10.75	108	HD125H/22W	9.69	110	HX37/15W	6.87	113
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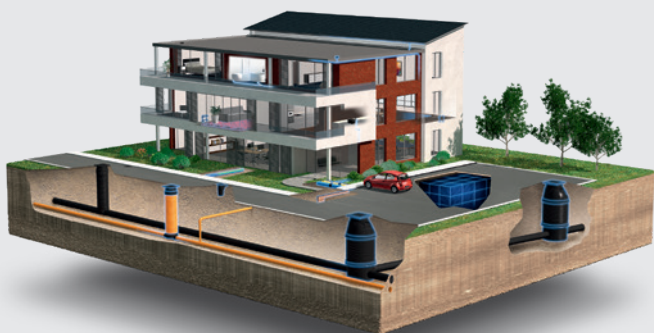
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