

Trade Price List 1st March 2020 – Revision 1

Wavin, OSMA & Hep₂O Above Ground Systems

wavin **OSMA** Hep₂O

www.wavin.co.uk

wavin

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.

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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	21.80
	▽	112	OT072G	5	21.80
	▽	112	OT072W	5	21.80
	▽	112	OT072N	5	21.80
	Gutter – 4.0m				
	▽	112	OT074B	5	43.53
	▽	112	OT074G	5	43.53
	▽	112	OT074W	5	43.53
	▽	112	OT074N	5	43.53
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	112	OT005B	10	7.77
	▽	112	OT005G	5	7.77
	▽	112	OT005W	5	7.77
	▽	112	OT005N	5	7.77
	Gutter Union				
	▽	112	OT009B	10	10.47
	▽	112	OT009G	5	10.47
	▽	112	OT009W	5	10.47
	▽	112	OT009N	5	10.47
	Gutter Support Bracket				
	▽	112	OT019B	40	3.45
	▽	112	OT019G	20	3.45
	▽	112	OT019W	40	3.45
	▽	112	OT019N	20	3.45
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	4.25
	Angled Bracket Spacer	–	OT045B	10	9.38
Outlets and Stopends					
	Running Outlet – straight				
	▽	112	OT624B	5	16.00
	▽	112	OT624G	5	16.00
	▽	112	OT624W	5	16.00
	▽	112	OT624N	5	16.00
	Swivelock Running Outlet – with fitted offset bend				
	▽	112	OT625B	2	24.16
	Stopend Outlet				
	▽	112	OT007B	5	19.49
	▽	112	OT007G	5	19.49
	▽	112	OT007W	5	19.49
	▽	112	OT007N	5	19.49
	Stopend – internal				
	▽	112	OT010B	5	5.01
	▽	112	OT010G	5	5.01
	▽	112	OT010W	5	5.01
	▽	112	OT010N	5	5.01

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopend – external				
	▽	112	OT011B	10	6.46
	▽	112	OT011G	5	6.46
	▽	112	OT011W	5	6.46
	▽	112	OT011N	5	6.46
Gutter Angles					
	Angle – 90°				
	▽	112	OT003B	5	15.00
	▽	112	OT003G	5	15.00
	▽	112	OT003W	5	15.00
	▽	112	OT003N	5	15.00
	Angle – 60°				
	▽	112	OT016B	5	20.66
	Angle – 45°				
	▽	112	OT004B	5	19.61
	▽	112	OT004G	5	19.61
	▽	112	OT004W	5	19.61
	▽	112	OT004N	5	19.61
	24° – 150° Multi-angle				
	▽	112	OT002B	1	84.60
	Fabricated angles to order				
		112	OT999B	1	81.81
		112	OT999G	1	81.81
		112	OT999W	1	81.81
		112	OT999N	1	81.81
	Leaf Guard				
	Leaf Guard – 10 no. x 500mm	–	OT017B	1	46.11
Connectors to Metal and PVC–U Gutters					
	Connector to 4" or 4.5" CI Half-round Gutter				
	▽	112	OT008B	10	17.58
	Connector to 4.5" CI Ogee Gutter – LH				
	▽	112	OT014B	5	30.11
	Connector to 4.5" CI Ogee Gutter – RH				
	▽	112	OT015B	5	30.11
Rise and Fall Brackets and Spikes					
	Bow and Pin				
	– for Rise and Fall Brackets	112	OT914B	10	14.84
	(for use with Build-in or Drive-in Spikes)	112	OT914G	10	14.84
		112	OT914W	10	14.84
		112	OT914N	10	14.84
	Build-in Spike				
	– 200mm long	–	OT985B	10	10.55
	– 300mm long	–	OT986B	10	15.86
	Drive-in Spike				
	– 200mm long	–	OT988B	10	8.79
	– 300mm long	–	OT989B	10	11.82

Osma RoundLine










Rainwater half round domestic – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket – 300mm long	112	OT745B	20	18.20
	Side Rafter Bracket – 300mm long	112	OT746B	20	19.71
Rafter Bracket (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	OT147G	20	22.71
	Adjustable Side Rafter Bracket – 300mm long	–	OT148G	20	20.97
Rafter Bracket (galvanised)					
	Top Rafter Bracket – 300mm long galvanised	112	OT245B	5	18.52
	Side Rafter Bracket – 300mm long galvanised	112	OT246B	5	18.52
Pipe					
	P/E Pipe – 2.0m				
	▽	68	OT082B	5	24.44
	▽	68	OT082G	5	24.44
	▽	68	OT082N	5	24.44
	P/E Pipe – 2.75m				
	▽	68	OT086B	5	33.64
	▽	68	OT086G	5	33.64
	▽	68	OT086W	5	33.64
	▽	68	OT086N	5	33.64
	P/E Pipe – 4.0m				
	▽	68	OT084B	5	48.85
	▽	68	OT084G	5	48.85
	▽	68	OT084W	5	48.85
	▽	68	OT084N	5	48.85
	P/E Pipe – 5.5m				
	▽	68	OT088B	5	63.80
	▽	68	OT088G	5	63.80
	▽	68	OT088W	5	63.80
	▽	68	OT088N	5	63.80
Pipe and Socket Brackets					
	Pipe or Socket Bracket				
	▽	68	OT033B	10	8.57
	▽	68	OT033G	5	8.57
	▽	68	OT033W	5	8.57
	▽	68	OT033N	5	8.57
	Pipe Bracket				
	▽	68	OT034B	20	5.97
	▽	68	OT034G	5	5.97
	▽	68	OT034W	5	5.97
	▽	68	OT034N	5	5.97

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Socket Bracket				
	▽	68	OT038B	10	7.00
	▽	68	OT038G	10	7.00
	▽	68	OT038W	10	7.00
	Drive-in Pipe Bracket				
	▽	68	OT143B	10	19.90
	Pipe Bracket Spacer – for use with OT033	68	OT031B	10	2.84
	Bracket Extension Piece – for use with OT033	68	OT030B	5	3.33
	▽				
Connectors and Adaptors					
	Pipe Connector				
	▽	68	OT024B	5	7.29
	▽	68	OT024G	5	7.29
	▽	68	OT024W	5	7.29
	Connector to 2.5" CI RW pipe				
	▽	68	OT092B	5	18.01
	Rainwater Adaptor – 68mm pipe to 110mm PVC–U drain	–	4S149	10	15.21
	Rainwater Adaptor – 68mm pipe to 110mm PVC–U drain	–	OT149B	5	19.05
	▽				
	Universal Drain Adaptor	–	4S159	10	16.20
Bends and Shoe					
	Offset Bend – socket				
	▽	68	OT025B	10	9.14
	▽	68	OT025G	5	9.14
	▽	68	OT025W	5	9.14
	Offset Bend – spigot				
	▽	68	OT026B	10	11.39
	▽	68	OT026G	5	11.39
	▽	68	OT026W	5	11.39
	Long Tail Offset Bend – spigot				
	▽	68	OT027B	5	14.19
	Pipe Bend – 87.5°				
	▽	68	OT161B	5	17.64
	▽	68	OT161G	5	17.64
	▽	68	OT161W	5	17.64
	▽	68	OT161N	5	17.64

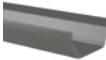










Osma RoundLine

Rainwater half round domestic – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe Shoe				
	▽	68	OT037B	5	9.90
	▽	68	OT037G	5	9.90
	▽	68	OT037W	5	9.90
	▽	68	OT037N	5	9.90
	Branch, Access Pipe and Hopper Head				
	Pipe Branch – 67.5°				
	▽	68	OT035B	5	29.76
	▽	68	OT035G	5	29.76
	▽	68	OT035W	5	29.76
	Access Pipe – with screwed door				
	▽	68	OT274B	5	53.73
	▽	68	OT274G	5	53.73
	▽	68	OT274W	5	53.73
	▽	68	OT274N	5	53.73
	Hopper Head				
	▽	68	OT332B	5	39.96
	▽	68	OT332G	5	39.96
	▽	68	OT332W	5	39.96
	▽	68	OT332N	5	39.96
	Rainwater Diverter				
	Rainwater Diverter Kit	68 68	OT201B OT201W	1 1	62.67 62.67
	Spares				
	Gutter Seal	112	OT064G	5	2.54
	Flexiclip				
	▽	112	OT116B	1	1.94
	▽	112	OT116G	1	1.94
	▽	112	OT116W	1	1.94
	▽	112	OT116N	1	1.94
	Gutter Pad – narrow	112	OT060B	5	2.54
	Gutter Pad – wide	112	OT061B	5	2.54






Osma SquareLine




Rainwater square – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 2.0m				
	▽	100	4T872B	5	23.12
	▽	100	4T872W	5	23.12
	▽	100	4T872N	5	23.12
	Gutter – 4.0m				
	▽	100	4T874B	5	46.27
	▽	100	4T874W	5	46.27
	▽	100	4T874N	5	46.27
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	100	4T805B	20	10.17
	▽	100	4T805W	20	10.17
	▽	100	4T805N	20	10.17
	Gutter Union				
	▽	100	4T809B	10	16.22
	▽	100	4T809W	5	16.22
	▽	100	4T809N	5	16.22
	Gutter Support Bracket				
	▽	100	4T819B	20	4.38
	▽	100	4T819W	20	4.38
	▽	100	4T819N	20	4.38
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	4.25
	Angled Bracket Spacer	–	0T045B	10	9.38
Outlets and Stopends					
	Running Outlet				
	▽	100	4T806B	10	16.89
	▽	100	4T806W	10	16.89
	▽	100	4T806N	10	16.89
	Stopend Outlet				
	▽	100	4T807B	10	17.91
	▽	100	4T807W	10	17.91
	▽	100	4T807N	10	17.91
	Stopend – internal				
	▽	100	4T810B	5	6.49
	▽	100	4T810W	5	6.49
	▽	100	4T810N	5	6.49
	Stopend – external				
	▽	100	4T811B	10	7.49
	▽	100	4T811W	10	7.49
	▽	100	4T811N	10	7.49
Gutter Angles					
	Angle – 90°				
	▽	100	4T803B	10	16.38
	▽	100	4T803W	10	16.38
	▽	100	4T803N	10	16.38

Osma SquareLine












Rainwater square – PVC-U





Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 45°				
	▽	100	4T804B	5	22.75
	▽	100	4T804W	5	22.75
	▽	100	4T804N	5	22.75
	Fabricated angles to order	100	4T999B	1	85.35
		100	4T999W	1	85.35
		100	4T999N	1	85.35
<hr/>					
	Connectors to Metal and PVC-U Gutter				
	Connector to 4.5" RoundLine Gutter				
	▽	100	4T818B	5	27.48
	▽	100	4T818W	5	27.48
<hr/>					
	Rise and Fall Brackets and Spikes				
	Bow and Pin				
	– for Rise and Fall Brackets	100	4T894B	10	18.24
	(for use with Build-in or in Spikes)				
	Build-in Spike				
	– 200mm long	–	0T985B	10	10.55
	Build-in Spike				
	– 300mm long	–	0T986B	10	15.86
	Drive-in Spike				
	– 200mm long	–	0T988B	10	8.79
	Drive-in Spike				
	– 300mm long	–	0T989B	10	11.82
<hr/>					
	Rafter Brackets (BZP)				
	Adjustable Top Rafter Bracket				
	– 300mm long	–	0T147G	20	22.71
	Adjustable Side Rafter Bracket				
	– 300mm long	–	0T148G	20	20.97

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 2.0m				
	▽	61	4T882B	5	24.65
	▽	61	4T882W	5	24.65
	▽	61	4T882N	5	24.65
	P/E Pipe – 2.75m				
	▽	61	4T886B	5	34.84
	▽	61	4T886W	5	34.84
	▽	61	4T886N	5	34.84
	P/E Pipe – 4.0m				
	▽	61	4T884B	5	50.48
	▽	61	4T884W	5	50.48
	▽	61	4T884N	5	50.48
	P/E Pipe – 5.5m				
	▽	61	4T888B	5	69.47
	▽	61	4T888W	5	69.47
	▽	61	4T888N	5	69.47
	Pipe Brackets and Spacer				
	Pipe Bracket – Stand Off				
	▽	61	4T833B	5	5.80
	▽	61	4T833W	5	5.80
	▽	61	4T833N	5	5.80
	Pipe Bracket				
	▽	61	4T834B	5	4.93
	▽	61	4T834W	5	4.93
	▽	61	4T834N	5	4.93
	Pipe Bracket Spacer	–	4T731B	10	8.20
	– for use with 4T834, 4T823, 4T832, 4T858, 4T855	–	4T731W	10	8.20
	Connectors and Adaptors				
	Pipe Connector and Bracket – Stand Off				
	▽	61	4T824B	5	17.02
	▽	61	4T824W	5	17.02
	▽	61	4T824N	5	17.02
	Pipe Connector and Bracket				
	▽	61	4T823B	5	15.41
	▽	61	4T823W	5	15.41
	▽	61	4T823N	5	15.41
	Drain Adaptor – Square to Round				
	▽	61	4T836B	10	13.97
	▽	61	4T836W	5	13.97
	Outlet Adaptor – Square to Round				
	▽	61	4T837B	5	17.43
	▽	61	4T837W	5	17.43
	Rainwater Adaptor 68mm pipe to 110mm PVC-U drain	–	4S149	10	15.21
	Rainwater Adaptor 68mm pipe to 110mm PVC-U drain				
	▽	–	0T149B	5	19.05

Osma SquareLine















Rainwater square – PVC-U










Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Universal Drain Adaptor	–	4S159	10	16.20
Bends, Shoe and Wall Offsets					
	Offset Bend – socket				
	▽	61	4T825B	20	9.76
	▽	61	4T825W	20	9.76
	▽	61	4T825N	20	9.76
	Offset Bend – spigot				
	▽	61	4T826B	10	12.11
	▽	61	4T826W	10	12.11
	▽	61	4T826N	10	12.11
	Pipe Bend – 87.5°				
	▽	61	4T862B	5	20.83
	▽	61	4T862W	5	20.83
	▽	61	4T862N	5	20.83
	Pipe Shoe and Bracket				
	▽	61	4T832B	5	14.46
	▽	61	4T832W	5	14.46
	▽	61	4T832N	5	14.46
	Pipe Wall Offset				
	▽	61	4T838B	10	19.58
	▽	61	4T838W	10	19.58
	▽	61	4T838N	10	19.58
	Pipe Wall Offset – with access	61	4T858B	5	54.93
Branch, Access Pipe and Hopper Head					
	Pipe Branch – 67.5°				
	▽	61	4T835B	5	40.02
	▽	61	4T835W	5	40.02
	▽	61	4T835N	5	40.02
	Access Pipe	61	4T855B	5	54.93
	Hopper Head				
		61	4T830B	5	50.48
		61	4T830W	5	50.48
		61	4T830N	5	50.48
Rainwater Diverter Kit					
	Rainwater Diverter Kit				
		61	0T201B	1	62.67
		61	0T201W	1	62.67

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Spares					
	Gutter Seal	100	4T864B	5	2.56
	Flexiclip				
	▽	100	4T816B	1	2.38
	▽	100	4T816W	1	2.38
	▽	100	4T816N	1	2.38
	Gutter Pad – narrow	100	4T860G	10	2.55
	Gutter Pad – wide	100	4T861G	10	2.60

Osma StormLine

Rainwater ogee – PVC-U






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 4.0m	111	8T874B	4	61.51
		111	8T874W	4	61.51
<hr/>					
Gutter Unions and Brackets					
	Gutter Jointing Bracket				
	▽	111	8T809B	10	14.95
	▽	111	8T809W	10	14.95
	Gutter Support Bracket				
	▽	111	8T819B	10	5.54
	▽	111	8T819W	10	5.54
	Gutter Hanging Bracket				
		111	8T849B	20	7.38
		111	8T849W	20	7.38
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	4.25
<hr/>					
Outlets and Stopends					
	Running Outlet				
	▽	111	8T806B	5	19.09
	▽	111	8T806W	5	19.09
	Stopend Outlet (left hand)				
	▽	111	8T807B	5	18.49
	▽	111	8T807W	5	18.49
	Stopend Outlet (right hand)				
	▽	111	8T808B	5	18.49
	▽	111	8T808W	5	18.49
	Stopend – internal (left hand)				
	▽	111	8T840B	5	8.41
	▽	111	8T840W	5	8.41
	Stopend – internal (right hand)				
	▽	111	8T850B	5	8.41
	▽	111	8T850W	5	8.41
	Stopend – external (left hand)				
	▽	111	8T841B	10	11.75
	▽	111	8T841W	10	11.75
	Stopend – external (right hand)				
	▽	111	8T851B	10	11.75
	▽	111	8T851W	10	11.75
<hr/>					
Gutter Angles					
	Angle – 90° (internal)				
	▽	111	8T843B	5	22.00
	▽	111	8T843W	5	22.00
	Angle – 90° (external)				
	▽	111	8T853B	5	19.57
	▽	111	8T853W	5	19.57

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 45° (internal)				
	▽	111	8T844B	5	23.15
	▽	111	8T844W	5	23.15
	Angle – 45° (external)				
	▽	111	8T854B	5	23.15
	▽	111	8T854W	5	23.15
	Fabricated angles to order	–	8T999B	1	94.71
		–	8T999W	1	94.71
Rise and Fall Brackets and Spikes					
	Bow and Pin				
	– For Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	111	8T894B	10	21.93
		111	8T894W	10	21.93
	Build-in Spike				
	– 200mm long	–	0T985B	10	10.55
	– 300mm long	–	0T986B	10	15.86
	Drive-in Spike				
	– 200mm long	–	0T988B	10	8.79
	– 300mm long	–	0T989B	10	11.82
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket				
	– 300mm long	–	0T147G	20	22.71
	Adjustable Side Rafter Bracket				
	– 300mm long	–	0T148G	20	20.97
Spares					
	Gutter Seal	111	8T864B	1	2.14
	Flexiclip				
	▽	111	8T816B	1	2.24
	▽	111	8T816W	1	2.24








Note: For details of 61mm (2¼") and 68mm (2½") pipe and fittings for use with the StormLine Rainwater System refer to pages 11-12 and 6-8.

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	50.70
	▽	113	9T974G	5	50.70
	▽	113	9T974W	5	50.70
	▽	113	9T974N	5	50.70
	Gutter Union and Brackets				
	Gutter Union				
	▽	113	9T909B	5	12.33
	▽	113	9T909G	5	12.33
	▽	113	9T909W	5	12.33
	▽	113	9T909N	5	12.33
	Gutter Support Bracket				
	▽	113	9T919B	40	4.29
	▽	113	9T919G	20	4.29
	▽	113	9T919W	20	4.29
	▽	113	9T919N	20	4.29
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	4.25
	Angled Bracket Spacer	–	0T045B	10	9.38
	Outlet and Stopends				
	Running Outlet				
	▽	113	9T906B	5	15.17
	▽	113	9T906G	5	15.17
	▽	113	9T906W	5	15.17
	▽	113	9T906N	5	15.17
	Stopend – internal				
	▽	113	9T910B	5	5.39
	▽	113	9T910G	5	5.39
	▽	113	9T910W	5	5.39
	▽	113	9T910N	5	5.39
	Stopend – external				
	▽	113	9T911B	5	7.59
	▽	113	9T911G	5	7.59
	▽	113	9T911W	5	7.59
	▽	113	9T911N	5	7.59
	Gutter Angles				
	Angle – 90°				
	▽	113	9T903B	5	19.61
	▽	113	9T903G	5	19.61
	▽	113	9T903W	5	19.61
	▽	113	9T903N	5	19.61
	Angle – 45°				
	▽	113	9T904B	5	22.48
	▽	113	9T904G	5	22.48
	▽	113	9T904W	5	22.48
	▽	113	9T904N	5	22.48
	Fabricated angles to order	113	9T999B	1	86.41
		113	9T999G	1	86.41
		113	9T999W	1	86.41
		113	9T999N	1	86.41








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

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Rise and Fall Brackets and Spikes					
	Bow and Pin – for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	113	9T994B	10	19.98
		113	9T994G	10	19.98
	Build-in Spike – 200mm long	–	0T985B	10	10.55
	– 300mm long	–	0T986B	10	15.86
	Drive-in Spike – 200mm long	–	0T988B	10	8.79
	– 300mm long	–	0T989B	10	11.82
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	22.71
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	20.97
Spares					
	Gutter Seal	113	9T964B	10	2.04
	Flexiclip ♥	113	9T916B	1	2.06
	♥	113	9T916G	1	2.06
	♥	113	9T916W	1	2.06
	♥	113	9T916N	1	2.06

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	66.84
	Gutter Union and Brackets Gutter Union ▽	125	5T509B	5	14.85
	Gutter Support Bracket ▽	125	5T519B	5	5.42
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	4.25
	Angled Bracket Spacer	–	0T045B	10	9.38
	Outlet and Stopends Running Outlet ▽	125	5T508B	5	22.17
	Stopend – internal ▽	125	5T510B	5	7.21
	Stopend – external ▽	125	5T511B	5	10.87
	Gutter Angles Angle – 90° ▽	125	5T503B	5	24.80
	Angle – 45° ▽	125	5T504B	5	28.27
	Fabricated angles to order	125	5T999B	1	99.34
	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	23.87
	Build-in Spike – 200mm long	–	0T985B	10	10.55
	– 300mm long	–	0T986B	10	15.86
	Drive-in Spike – 200mm long	–	0T988B	10	8.79
	– 300mm long	–	0T989B	10	11.82







Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Rafter Brackets (PVC Coated Steel)					
	Top Rafter Bracket – 300mm long	125	5T595B	10	24.62
	Side Rafter Bracket – 300mm long	125	5T596B	10	26.05
Rafter Bracket (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	22.71
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	20.97
	Rainwater Hopper Hopper Head	110	4S326B	5	88.66
Spares					
	Gutter Seal	125	5T564B	10	2.75
	Flexiclip ♥	125	5T516B	1	2.55

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	6T674B	5	134.78
	♥	150	6T674G	5	134.78
Gutter Union and Bracket					
	Gutter Union				
	♥	150	6T609B	5	39.89
	♥	150	6T609G	5	39.89
	Gutter Support Bracket				
	♥	150	6T619B	10	13.97
	♥	150	6T619G	10	13.97
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	4.25
Outlet and Stopends					
	Running Outlet				
	♥	150	6T606B	5	54.78
	♥	150	6T606G	5	54.78
	Stopend – internal				
	♥	150	6T610B	5	9.38
	♥	150	6T610G	5	9.38
	Stopend – external				
	♥	150	6T611B	5	27.18
	♥	150	6T611G	5	27.18
Gutter Angles					
	Angle – 90°				
	♥	150	6T603B	5	76.95
	♥	150	6T603G	5	76.95
	Fabricated angles to order				
		150	6T999B	1	137.90
		150	6T999G	1	145.87
Rise and Fall Brackets and Spikes					
	Bow and Pin				
	– for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	150	6T694B	20	30.25
		150	6T694G	20	30.25
	Build-in Spike				
	– 200mm long	–	0T985B	10	10.55
	– 300mm long	–	0T986B	10	15.86
	Drive-in Spike				
	– 200mm long	–	0T988B	10	8.79
	– 300mm long	–	0T989B	10	11.82
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket – 300mm long	150	6T695B	10	27.02

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Side Rafter Bracket – 300mm long	150	6T696B	10	28.59
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	22.71
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	20.97
Rainwater Hopper					
	Hopper Head	110	4S326B	5	88.66
		110	4S326G	5	88.66
Spares					
	Gutter Seal	150	6T664B	4	3.10
	Flexiclip ▽	150	6T616B	1	2.85
	▽	150	6T616G	1	2.85









Note: For details of 110mm (4") pipe and fittings for use with the RoofLine Rainwater System refer to pages 22-36.

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	62.31
	♥ ♻	110	4S042B	2	55.94
	♥ ♻	110	4S042G	2	55.94
	S/S Pipe – 2.5m	110	4S050G	50	67.97
	♥ ♻				
	S/S Pipe – 3.0m				
	♥	82	3S043B	2	86.12
	♥	82	3S043G	2	86.12
	♥ ♻	110	4S043B	2	75.37
	♥ ♻	110	4S043G	2	75.37
	♥ ♻	110	4S043W	2	75.37
	♥ ♻	160	6S043G	2	280.72
	S/S Pipe – 4.0m				
	♥	82	3S044B	2	112.77
	♥	82	3S044G	2	112.77
	♥ ♻	110	4S044B	2	101.68
	♥ ♻	110	4S044G	2	101.68
	♥ ♻	110	4S044W	2	101.68
	♥ ♻	160	6S044G	2	365.27
	P/E Pipe – 3.0m				
	♥ ♻	110	4S073B	2	72.50
	♥ ♻	110	4S073G	2	72.50
	♥ ♻	110	4S073E	2	72.50
	♥ ♻	110	4S073W	2	72.50
	P/E Pipe – 4.0m				
	♥	82	3S074B	2	112.33
	♥	82	3S074G	2	112.33
	♥ ♻	110	4S074B	2	96.66
	♥ ♻	110	4S074G	2	96.66
	♥ ♻	110	4S074E	2	96.66
	♥ ♻	110	4S074W	2	96.66
	♥ ♻	160	6S074B	2	338.19
	♥ ♻	160	6S074G	2	338.19
	♥ ♻	160	6S074E	2	338.19
	Brackets				
	Pipe Bracket				
	♥	82	3S082B	5	8.64
	♥	82	3S082G	5	8.64
	♥	110	4S082B	10	7.39
	♥	110	4S082G	10	7.39
	♥	110	4S082E	20	7.39
	♥	110	4S082W	10	7.39
	♥	160	6S082B	1	27.10
	♥	160	6S082G	1	27.10
	Socket Bracket				
	♥	82	3S083B	5	11.19
	♥	82	3S083G	5	11.19
	♥	110	4S083B	5	9.59
	♥	110	4S083G	5	9.59
	♥	110	4S083E	5	9.59
	♥	110	4S083W	5	9.59












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

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe or Socket Bracket – BZP coated steel				
	♥	82	3S084	10	20.90
	♥	110	4S084	10	21.33
	♥	160	6S084	1	45.01
	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	69.33
		160	6S086	1	98.84
	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	142.70
		160	6S085	1	167.57
					
Sockets					
	D/SW Double Socket				
	♥	110	4S104B	5	16.26
	♥	110	4S104G	5	16.26
	♥	110	4S104E	10	16.26
	♥	110	4S104W	5	16.26
	♥	160	6S104B	1	39.36
	♥	160	6S104G	1	39.36
	♥	160	6S104E	1	39.36
	D/S Double Socket – for repairs				
	♥	82	3S105B	5	32.49
	♥	82	3S105G	5	32.49
	♥	110	4S105B	5	35.08
	♥	110	4S105G	5	35.08
	♥	110	4S105W	5	35.08
	♥	160	6S105G	1	98.84
	S/SW Single Socket				
	♥	82	3S124B	5	18.94
	♥	82	3S124G	5	18.94
	♥	110	4S124B	5	16.92
	♥	110	4S124G	5	16.92
	♥	110	4S124E	5	16.92
	♥	110	4S124W	5	16.92
	♥	160	6S124B	1	57.90
	♥	160	6S124G	1	57.90
	D/S Acoustic Socket				
	♥	110	4S125B	5	25.69
	♥	110	4S125G	5	25.69
	♥	110	4S125E	5	25.69
	D/S Double Sockets				
		110	4S205B	10	30.22
		110	4S205G	10	30.22
		110	4S205W	10	30.22

OsmaSoil











Soil and Vent PVC-U Ring-seal system











Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors					
	S/S Connector to CI soil socket	110	4S106G	5	47.80
	♥				
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	50.57
	Internal Drain Connector for 32mm/40mm waste pipe	110	4S298	5	17.17
	Internal Drain Connector – for 50mm waste pipe	110	4S299	5	19.77
Reducers					
	S/S Reducer – 82mm x 50mm	82	3S094B	5	39.70
	♥	82	3S094G	5	39.70
	Reducer – 110mm x 32mm waste	110	4S098G	5	39.35
	Reducer – 110mm x 40mm waste	110	4S097G	5	39.35
	S/S Reducer – 110mm x 50mm	110	4S096B	5	37.36
	♥	110	4S096G	5	37.36
	S/S Reducer – 110mm x 82mm	110	4S095B	5	34.26
	♥	110	4S095G	5	34.26
	S/S Reducer – 160mm x 110mm	160	6S099G	1	87.71
Bends					
	S/S Bend – 87.5°	82	3S161B	5	38.47
	♥	82	3S161G	5	38.47
	♥	110	4S161B	5	44.79
	♥	110	4S161G	5	44.79
	♥	110	4S161W	5	44.79
	♥	160	6S161G	1	151.68
	♥				

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Bend – 87.5° ▽	110	4S361G	5	44.09
	S/S Tight Radius Bend – 87.5° ▽	110	4S160B	10	49.76
	▽	110	4S160G	10	49.76
	▽	110	4S160W	10	49.76
	D/S Bend – 87.5°	110	4S561B	5	55.87
		110	4S561G	5	55.87
		110	4S561W	5	55.87
	S/S Bend – 76° ▽	110	4S164B	5	63.79
	▽	110	4S164G	5	63.79
	S/S Bend – 67.5° ▽	82	3S162G	5	47.96
	▽	110	4S162G	5	64.28
	S/S Bend – 45° ▽	82	3S163B	5	38.47
	▽	82	3S163G	5	38.47
	▽	110	4S163B	5	44.79
	▽	110	4S163G	5	44.79
	▽	110	4S163W	5	44.79
	▽	160	6S163G	1	151.68
	S/SW Bend – 45° ▽	110	4S363B	5	44.09
	▽	110	4S363G	5	44.09
	▽	110	4S363W	5	44.09
	S/S Bend – 30° ▽	110	4S166G	5	49.61
	S/S Bend – 15° ▽	110	4S167G	5	57.08
Adjustable Bends					
	S/S Adjustable Bend – 30° ▲	110	4S173G	1	56.27
	S/S Adjustable Bend – 90° ▲	110	4S179G	1	63.63

OsmaSoil














Soil and Vent PVC-U Ring-seal system










	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Offset Bends					
	SW/S Offset Bend (bottom)				
	▽	82	3S435G	5	40.08
	▽	110	4S435B	5	41.81
	▽	110	4S435G	5	41.81
	▽	110	4S435E	5	41.81
	▽	110	4S435W	5	41.81
	S/SW Offset Bend (top)				
	▽	82	3S440B	5	47.29
	▽	82	3S440G	5	47.29
	▽	110	4S440B	5	57.35
	▽	110	4S440G	5	57.35
	▽	110	4S440W	5	57.35
	S/S Offset Bend				
	▽	110	4S444B	5	57.35
	▽	110	4S444G	5	57.35
	▽	110	4S444W	5	57.35
	D/S Offset Bend				
	▽	110	4S445B	5	63.79
	▽	110	4S445G	5	63.79
	▽	110	4S445W	5	63.79
Manifolds					
	6 Boss Manifold	110	4S597G	1	70.44
	OsmaLink Soil Manifold ▽	110	4S595G	1	77.46
	All-Fit Reducer – 1½" / 40 x 1¼" / 32	40	4Z124W	10	6.59
	All-Fit Reduction Bend – 2" / 50 x 1½" / 40	50	2S355W	10	10.90
	All-Fit 90° Spigot Bend – 2" / 50	50	2S356W	5	17.94
Branches					
	S/S Single Branch – 87.5°				
	▽	82	3S190B	5	68.46
	▽	82	3S190G	5	68.46
	▽	110	4S190B	5	63.23
	▽	110	4S190G	5	63.23
	▽	110	4S190W	5	63.23
	▽	160	6S190G	1	273.96

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Single 5 Boss Branch – 87.5° ♥	110	4S195B	5	81.95
	♥	110	4S195G	5	81.95
	♥	110	4S195W	5	81.95
	S/SW Single 5 Boss Branch – 87.5° ♥	110	4S395G	5	71.07
	S/S Unequal Single Branch – 87.5° ♥	160	6S198G	1	211.13
	S/S Single Branch – 76° ♥	110	4S220B	1	91.71
	♥	110	4S220G	1	91.71
	S/S Single Branch – 67.5° ♥	110	4S200B	1	91.71
	♥	110	4S200G	1	91.71
	S/S Single Branch – 45° ♥	82	3S210G	5	68.46
	♥	110	4S210B	5	93.99
	♥	110	4S210G	5	93.99
	160x110mm ♥	160	6S218G	1	211.13
	160x160mm ♥	160	6S210G	1	273.96
	S/S Double Branch – 87.5° ♥	110	4S230B	1	158.11
	♥	110	4S230G	1	158.11
	♥	110	4S230W	1	158.11
	S/S Unequal Double Branch – 87.5° ♥	160	6S238G	1	373.12
	S/S Double Branch – 45° ♥	110	4S250G	1	197.11
	S/S Corner Branch – 87.5° ♥	110	4S291G	1	248.90

OsmaSoil









Soil and Vent PVC-U Ring-seal system

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Boss Socket Adaptors					
	S/S Boss Adaptor (Ring-Seal) – for 1¼" / 32 plastic or copper pipe				
	♥	32	2S398B	10	8.85
	♥	32	2S398G	10	8.85
	S/S Boss Adaptor (Ring-Seal) – for 1½" / 40 plastic or copper pipe				
	♥	40	2S399B	5	8.85
	♥	40	2S399G	10	8.85
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 plastic or copper pipe				
	♥	50	2S402B	5	11.40
	♥	50	2S402G	5	11.40
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 BS EN 1329, 1455 and 1566 pipe				
	♥	50	2S402W	5	11.40
	S/S Boss Adaptor 90° (Ring-Seal) – for 2" / 50 BS EN 1329, 1455 and 1566 pipe				
	♥	50	2S360G	10	12.56
	S/S Transition Adaptor – Osma to Hepworth				
	♥	50	2S404B	10	5.55
Bossed Pipes					
	S/S Bossed Pipe – plain with one boss socket				
	♥	82	3S649B	10	36.72
	♥	82	3S649G	10	36.72
	S/S Bossed Pipe – for 1¼" / 32 plastic or copper pipe				
	♥ – NEW	110	4S581B	5	48.05
	♥	110	4S581G	5	48.05
	S/S Bossed Pipe – for 1½" / 40 plastic or copper pipe				
	♥ – NEW	110	4S582B	5	38.49
	♥	110	4S582G	5	38.49
	D/SW Bossed Pipe (Ring Seal) – for 1¼" / 32 plastic or copper pipe				
	♥	110	4S583B	5	18.67
	♥	110	4S583G	5	18.67
	D/SW Bossed Pipe (Ring Seal) – for 1½" / 40 plastic or copper pipe				
	♥	110	4S584B	5	16.23
	♥	110	4S584G	5	16.23
	D/SW Short Bossed Pipe				
		110	4S588B	5	16.10
		110	4S588G	5	16.10
	– NEW				
		110	4S588W	5	16.10

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Bossed Pipe – plain with four boss sockets				
	♥	110	4S589B	5	26.18
	♥	110	4S589G	5	26.18
	♥	110	4S589W	5	26.18
	S/SW Bossed Pipe – plain with four boss sockets				
	♥	110	4S590B	5	31.20
	♥	110	4S590G	5	31.20
	♥	110	4S590E	5	31.20
Strap Bosses					
	Strap Boss				
	♥	82	3S319B	5	17.91
	♥	82	3S319G	5	17.91
	♥	110	4S319B	5	15.02
	♥	110	4S319G	5	15.02
	♥	110	4S319E	5	15.02
	Clip Boss For Push-fit or Solvent Waste – 32mm				
		110	4S322B	10	18.49
		110	4S322G	10	18.49
		110	4S322W	10	18.49
	For Push-fit or Solvent Waste – 40mm				
		110	4S321B	5	18.49
		110	4S321G	5	18.49
		110	4S321W	5	18.49
	Patch Boss For Push-fit or Solvent Waste – 50mm				
	♥	82	3S323G	10	23.75
		110	4S323G	10	23.49
		160	6S323G	1	36.40
Access Fittings					
	S/S Access Bend – 87.5°				
	♥	110	4S169B	5	105.38
	♥	110	4S169G	5	105.38
	♥	110	4S169W	5	105.38
	S/SW Access Bend – 87.5°				
	♥	110	4S369G	5	121.09
	S/S Access Branch – 87.5°				
	♥	110	4S502B	1	142.70
	♥	110	4S502G	1	142.70

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Soil and Vent PVC-U Ring-seal system

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Access Pipe – with bolted door				
	♥	82	3S274B	5	75.59
	♥	82	3S274G	5	75.59
	S/S Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S274B	1	75.84
	♥	110	4S274G	5	75.84
	♥	110	4S274W	1	75.84
	♥	160	6S274G	1	205.45
	S/SW Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S374G	10	77.00
	Access Saddle				
	♥	110	4S275B	1	40.16
	♥	110	4S275G	1	40.16
Plugs					
	P/E Access Plug				
	♥	82	3S292B	5	37.42
	♥	82	3S292G	5	37.42
	♥	110	4S292B	1	35.02
	♥	110	4S292G	1	35.02
	♥	110	4S292E	1	35.02
	♥	110	4S292W	1	35.02
	♥	160	6S292B	1	76.58
	♥	160	6S292G	1	76.58
	P/E Socket Plug – with one boss socket				
	♥	110	4S296B	5	24.69
	♥	110	4S296G	5	24.69
	♥	110	4S296E	5	24.69
	♥	110	4S296W	5	24.69
Spares					
	Snap Cap				
		82	3S116B	1	2.25
		82	3S116G	1	2.25
		110	4S116B	1	7.06
		110	4S116G	1	7.06
		110	4S116W	1	7.06
	T Ring Seal				
		82	3S130G	5	3.67
		110	4S130G	5	5.09
		160	6S130G	5	9.29

Note: For OsmaSoil WC Connectors, Terminal Fittings and Ancillary Items see pages 37-40

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


Soil and Vent PVC-U Solvent Weld system








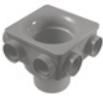


	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 3.0m				
	♻️ ♻️	110	4S073B	2	72.50
	♻️ ♻️	110	4S073G	2	72.50
	♻️ ♻️	110	4S073E	2	72.50
	♻️ ♻️	110	4S073W	2	72.50
	P/E Pipe – 4.0m				
	♻️ ♻️	110	4S074B	2	96.66
	♻️ ♻️	110	4S074G	2	96.66
	♻️ ♻️	110	4S074E	2	96.66
	♻️ ♻️	110	4S074W	2	96.66
	♻️ ♻️	160	6S074B	2	338.19
	♻️ ♻️	160	6S074G	2	338.19
	♻️ ♻️	160	6S074E	2	338.19
	Brackets				
	Pipe Bracket				
	♻️	110	4S082B	10	7.39
	♻️	110	4S082G	10	7.39
	♻️	110	4S082E	20	7.39
	♻️	110	4S082W	10	7.39
	♻️	160	6S082B	1	27.10
	♻️	160	6S082G	1	27.10
	Socket Bracket				
	♻️	110	4S083B	5	9.59
	♻️	110	4S083G	5	9.59
	♻️	110	4S083E	5	9.59
	♻️	110	4S083W	5	9.59
	Pipe or Socket Bracket	110	4S084	10	21.33
	– BZP coated steel	160	6S084	1	45.01
	Suspended Bracketing System				
	(Not suitable for damp inaccessible voids)				
	Adjustable Pipe Bracket Assembly	110	4S086	1	69.33
	(pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	160	6S086	1	98.84
	Adjustable Socket Bracket and Brace Assembly	110	4S085	1	142.70
	(pack containing threaded rod, threaded bracket, bracket plate, two adjustable braces and pipe/socket bracket) – BZP coated steel	160	6S085	1	167.57

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	16.26
	♥	110	4S104G	5	16.26
	♥	110	4S104E	10	16.26
	♥	110	4S104W	5	16.26
	♥	160	6S104B	1	39.36
	♥	160	6S104G	1	39.36
	♥	160	6S104E	1	39.36
	D/S Double Socket – for repairs				
	♥	110	4S105B	5	35.08
	♥	110	4S105G	5	35.08
	♥	110	4S105W	5	35.08
	♥	160	6S105G	1	98.84
	S/SW Single Socket				
	♥	110	4S124B	5	16.92
	♥	110	4S124G	5	16.92
	♥	110	4S124E	5	16.92
	♥	110	4S124W	5	16.92
	♥	160	6S124B	1	57.90
	♥	160	6S124G	1	57.90
	D/S Acoustic Socket				
	♥	110	4S125B	5	25.69
	♥	110	4S125G	5	25.69
	♥	110	4S125E	5	25.69
Connectors					
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	50.57
Reducers					
	SW/S Reducer – 110mm x 50mm				
	♥	110	4S496B	5	33.70
	♥	110	4S496G	5	33.70
	♥	110	4S496E	5	33.70
	S/S Reducer – 110mm x 82mm				
	♥	110	4S095B	5	34.26
	♥	110	4S095G	5	34.26
	SW/S Reducer – 160mm x 110mm				
	♥	160	6S499B	1	63.53
	♥	160	6S499G	1	63.53
	♥	160	6S499E	1	63.53
Expansion Cap					
	Expansion Cap – with integral ring-seal				
	♥	110	4S416B	5	7.84
	♥	110	4S416G	5	7.84
	♥	110	4S416E	5	7.84
	♥	160	6S416E	5	20.17
Bends					
	D/SW Bend – 87.5°				
	♥	110	4S461B	5	44.05
	♥	110	4S461G	5	44.05
	♥	110	4S461E	5	44.05
	♥	110	4S461W	5	44.05
	♥	160	6S461B	1	116.03
	♥	160	6S461G	5	116.03
	♥	160	6S461E	1	116.03

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/SW Bend – 67.5° ♥	110	4S462B	5	47.64
	♥	110	4S462G	5	47.64
	D/SW Bend – 45° ♥	110	4S463B	5	43.99
	♥	110	4S463G	5	43.99
	♥	110	4S463E	5	43.99
	♥	160	6S463B	1	118.84
	♥	160	6S463G	5	118.84
	♥	160	6S463E	1	118.84
	SW/S Bend – 45° ♥	110	4S263B	5	47.64
	♥	110	4S263G	5	47.64
	♥	110	4S263E	5	47.64
	SW/S Bend – 11.25° ♥	110	4S268B	5	45.97
	♥	110	4S268G	5	45.97
	♥	110	4S268E	5	45.97
	SW/S Long Tail Bend – 87.5° ♥	110	4S260B	5	50.61
	♥	110	4S260G	5	50.61
	♥	110	4S260E	5	50.61
Offset Bends					
	SW/S Offset Bend (bottom) ♥	110	4S435B	5	41.81
	♥	110	4S435G	5	41.81
	♥	110	4S435E	5	41.81
	♥	110	4S435W	5	41.81
	D/SW Offset Bend (top) ♥	110	4S450B	5	46.65
	♥	110	4S450G	1	46.65
	♥	110	4S450E	5	46.65
Manifold					
	6 Boss Manifold	110	4S597G	1	70.44
		110	4S597E	1	70.44
Branches					
	D/SW Single Branch – 87.5° ♥	110	4S490B	5	62.27
	♥	110	4S490G	5	62.27
	♥	110	4S490E	5	62.27
	♥	160	6S490B	1	198.11
	♥	160	6S490G	5	198.11
	♥	160	6S490E	1	198.11
	SW/S Single Branch – 87.5° ♥	110	4S290B	5	62.30
	♥	110	4S290G	5	62.30
	♥	110	4S290E	5	62.30

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Soil and Vent PVC-U Solvent Weld system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/SW Single 5 Boss Branch – 87.5°				
	♥	110	4S495B	5	64.81
	♥	110	4S495G	5	64.81
	♥	110	4S495E	5	64.81
	D/SW Unequal Single Branch – 87.5°				
	♥	160	6S498B	1	152.84
	♥	160	6S498G	5	152.84
	♥	160	6S498E	1	152.84
	D/SW Single Branch – 45°				
	♥	110	4S410B	5	70.39
	♥	110	4S410G	5	70.39
	♥	110	4S410E	5	70.39
	D/SW Double Branch – 87.5°				
	♥	110	4S430B	1	155.87
	♥	110	4S430G	5	155.87
	♥	110	4S430E	1	155.87
	SW/S Corner Branch – 87.5°				
	♥	110	4S491B	1	275.83
	♥	110	4S491G	5	275.83
	♥	110	4S491E	1	275.83
Boss Socket Adaptors					
	SW/S Boss Adaptor (Solvent Weld) – for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe				
	♥	32	2S298B	10	8.23
	♥	32	2S298G	10	8.23
	♥	32	2S298E	10	8.23
	♥	32	2S298W	10	8.23
	SW/S Boss Adaptor (Solvent Weld) – 1½" / 40mm BS EN 1329, 1455 and 1566 pipe				
	♥	40	2S299B	10	7.60
	♥	40	2S299G	10	7.60
	♥	40	2S299E	10	7.60
	♥	40	2S299W	10	7.60
	SW/S Boss Adaptor (Solvent Weld) – for 2" / 50mm BS EN 1329, 1455 and 1566 pipe				
	♥	50	2S403B	5	9.06
	♥	50	2S403G	5	9.06
	♥	50	2S403E	5	9.06
	♥	50	2S403W	5	9.06
Bossed Pipes					
	D/SW Bossed Pipe (Solvent Weld) – for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe				
	♥	110	4S483B	5	19.35
	♥	110	4S483G	5	19.35
	♥	110	4S483E	5	19.35

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/SW Bossed Pipe (Solvent Weld) – 1½" / 40mm BS EN 1329, 1455 and 1566 pipe				
	▽	110	4S484B	5	19.35
	▽	110	4S484G	5	19.35
	▽	110	4S484E	5	19.35
	D/SW Bossed Pipe – plain (four boss sockets)				
	▽	110	4S586B	5	21.53
	▽	110	4S586G	5	21.53
	▽	110	4S586E	5	21.53
	SW/S Bossed Pipe – plain (four boss sockets)				
	▽	110	4S585B	5	21.53
	▽	110	4S585G	5	21.53
	▽	110	4S585E	5	21.53
	D/SW Short Bossed Pipe	110	4S588B	5	16.10
		110	4S588G	5	16.10
		110	4S588W	5	16.10
	S/SW Bossed Pipe – plain (four boss sockets)				
	▽	110	4S590B	5	31.20
	▽	110	4S590G	5	31.20
	▽	110	4S590E	5	31.20
Strap Boss					
	▽	110	4S319B	5	15.02
	▽	110	4S319G	5	15.02
	▽	110	4S319E	5	15.02
	▽	110	4S319W	5	15.02
Access Fittings					
	D/SW Access Bend – 87.5°				
	▽	110	4S469B	5	111.01
	▽	110	4S469G	5	111.01
	▽	110	4S469E	5	111.01
	D/SW Access Branch – 87.5°				
	▽	110	4S493B	1	118.16
	▽ –	110	4S493G	5	118.16
	▽	110	4S493E	1	118.16
	SW/S Bossed Access Pipe – with screwed access and three boss sockets				
	▽	110	4S574B	5	78.24
	▽	110	4S574G	1	78.24
	▽	110	4S574E	5	78.24
	▽	160	6S474B	1	167.35
	▽	160	6S474G	1	167.35
	D/SW Bossed Access Pipe – with screwed access and three boss sockets				
	▽	110	4S474B	5	78.24
	▽	110	4S474G	5	78.24
	▽	110	4S474E	5	78.24

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Soil and Vent PVC-U Solvent Weld system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Access Saddle				
	♥	110	4S275B	1	40.16
	♥	110	4S275G	1	40.16
<hr/>					
	Plugs				
	P/E Access Plug				
	♥	82	3S292B	5	37.42
	♥	82	3S292G	5	37.42
	♥	110	4S292B	1	35.02
	♥	110	4S292G	1	35.02
	♥	110	4S292E	1	35.02
	♥	110	4S292W	1	35.02
	♥	160	6S292B	1	76.58
	♥	160	6S292G	1	76.58
	SW/S Access Plug				
	♥	110	4S492B	5	44.11
	♥	110	4S492G	1	44.11
	♥	110	4S492E	5	44.11
	P/E Socket Plug				
	– with one boss socket				
	♥	110	4S296B	5	24.69
	♥	110	4S296G	5	24.69
	♥	110	4S296E	5	24.69
	♥	110	4S296W	5	24.69





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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	223.20
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	223.20
	(RH) ▽	110	4S612W	1	223.20
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	223.20
	(RH) ▽	110	4S613W	1	223.20
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	223.20
	(RH) ▽	110	4S614W	1	223.20
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	223.20
	(RH) ▽	110	4S615W	1	223.20
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	223.20
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	33.91
	SW/S WC Connector – 2.5° ▽	110	4S792W	5	35.88
	P/E WC Connector – 14° ▽	110	4S711W	5	40.21
	P/E WC Connector – 90° ▽	110	4S771W	10	57.53
	SW/S WC Connector – 90° ▽	110	4S772W	10	49.93
WC Connectors and Gaskets (for WCs to BS 1213)					
	SW/S WC Connector – 87.5° ▽	110	4S745W	5	44.60

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WC connectors

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	WC Gasket – for WC spigots from 4" to 4¼"	110	4S121W	10	20.63
	WC Gasket – for WC spigots from 4¼" to 4½"	110	4S120W	10	19.35
WC Connectors – Ancillary Products					
	S/S Long Tail Bend – 87.5° ♻️	110	4S790W	5	57.35
	P/E Pipe – 600mm length ♻️ ♻️	110	4S600W	1	32.54
 Made with Water Recycore Technology™ 50% RECYCLED RAW MATERIAL					












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	24.27
		4in	WC004W	1	17.99
	Style 1 – Offset	4in	WC204W	1	22.07
	Style 1 – 14°	4in	WC144W	1	23.22
	Style 90°	4in	WC904W	1	25.79
	Straight Extension Piece	4in	WC404W	1	22.11



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

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Ancillaries







	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Terminal Fittings					
	Balloon Grating	82	3S302B	5	13.62
		82	3S302G	5	13.62
		110	4S302B	5	10.37
		110	4S302G	5	10.37
		110	4S302E	5	10.37
		110	4S302W	5	10.37
		160	6S302G	1	38.89
	Weathering Collar	82	3S300B	5	15.55
		110	4S300B	5	14.50
		110	4S300G	5	14.50
		110	4S300W	5	14.50
	SW/S Vent Cowl				
	▽	110	4S310B	1	52.37
	▽	110	4S310G	1	52.37
	▽	110	4S310E	1	52.37
	Spare Top for 4S700W	110	4S701W	1	58.65
	Flexible Vent Pipe – connects to ridge tile adaptor. Length 500mm	110	4S308B	1	126.62
Air Admittance Valves					
	OsmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe				
	▲	40	4S303W	1	78.47
	OsmaVent Air Admittance Valve – can also be adapted to fit 82mm soil				
	▲	110	4S304W	1	177.34
	Domestic Air Admittance Valve All				
	▲	110	4S306G	1	115.17
Pipe Flashings					
	VariPitch Pipe Flashing – 400mm x 400mm – for flat roofs		4S281G	1	141.05
	– 450mm x 450mm – for pitched roofs		4S283G	1	135.87
Roof Outlets					
	SW/S Domed Roof Outlet	82	3S414G	1	131.77
		110	4S414G	1	146.19

Ancillaries

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Rainwater Hopper and Shoe				
	Hopper Head	82	3S530B	1	105.39
		110	4S326B	5	88.66
		110	4S326G	5	88.66
	S/S Rainwater Pipe Shoe				
		82	3S288B	5	50.34
		110	4S288B	1	75.12
		110	4S288G	1	75.12
	Fire Stop Seal				
		50	2S001	1	242.22
		82	3S001	1	309.94
		110	4S001	1	306.72
Cleaners, Solvent Cements, Lubricants					
	Degreasing Cleaner No.1 – 250ml can	–	4S380G	10	18.64
	Solvent Cement No. 2 – 125ml can				
	▽	–	4S383G	10	21.60
	– 250ml can				
	▽	–	4S384G	10	29.07
	– 500ml can				
	▽	–	4S385G	10	63.27
	Solvent Cement Filler – 140ml tube	–	4S394G	5	30.62
	Silicone Lubricant – 50g tube	–	4S391G	5	24.26
	Silicone Lubricant Spray – 400ml can	–	4S392	1	42.23







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	14.71
	♥	32	4Z073W	10	14.71
	♥	40	5Z073B	10	18.18
	♥	40	5Z073W	10	18.18
	♥	50	2Z073B	10	23.32
	P/E Pipe – 4.0m				
	♥	32	4Z074G	10	19.62
	♥	40	5Z074G	10	24.20
	♥	50	2Z074G	10	31.09
	Bracket Pipe Bracket				
	♥	32	4Z081B	30	1.11
	♥	32	4Z081G	30	1.11
	♥	32	4Z081W	30	1.11
	♥	40	5Z081B	30	1.13
	♥	40	5Z081G	30	1.13
	♥	40	5Z081W	30	1.13
	♥	50	2Z081B	20	2.28
	♥	50	2Z081G	10	2.28
	♥	50	2Z081W	10	2.28
	Sockets Double Socket				
	♥	32	4Z104B	20	3.14
	♥	32	4Z104G	10	3.14
	♥	32	4Z104W	20	3.14
	♥	40	5Z104B	30	3.22
	♥	40	5Z104G	30	3.22
	♥	40	5Z104W	30	3.22
	♥	50	2Z104B	10	6.43
	♥	50	2Z104G	5	6.43
	♥	50	2Z104W	5	6.43
	Expansion Socket – with solvent socket tail				
	♥	32	4Z124G	10	6.59
	♥	32	4Z124W	10	6.59
	♥	40	5Z124G	10	6.43
	♥	40	5Z124W	10	6.43
	♥	50	2Z124W	5	11.17
	Bends Knuckle Bend – 90°				
	♥	32	4Z160B	10	4.17
	♥	32	4Z160G	10	4.17
	♥	32	4Z160W	10	4.17
	♥	40	5Z160B	20	4.93
	♥	40	5Z160G	20	4.93
	♥	40	5Z160W	20	4.93
	♥	50	2Z160B	10	7.73
	♥	50	2Z160G	5	7.73
	♥	50	2Z160W	5	7.73











OasmaWeld

ABS Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Spigot Bend – 90°				
	♥	32	4Z260B	15	5.68
	♥	32	4Z260G	15	5.68
	♥	32	4Z260W	15	5.68
	♥	40	5Z260B	15	5.52
	♥	40	5Z260G	15	5.52
	♥	40	5Z260W	15	5.52
	♥	50	2Z260B	10	7.02
	♥	50	2Z260G	10	7.02
	♥	50	2Z260W	10	7.02
	Bend – 87.5°				
	♥	32	4Z161B	10	4.39
	♥	32	4Z161G	10	4.39
	♥	32	4Z161W	25	4.39
	♥	40	5Z161B	10	5.24
	♥	40	5Z161G	10	5.24
	♥	40	5Z161W	10	5.24
	♥	50	2Z161B	5	8.19
	♥	50	2Z161G	5	8.19
	♥	50	2Z161W	5	8.19
	Bend – 45°				
	♥	32	4Z163B	20	3.92
	♥	32	4Z163G	20	3.92
	♥	32	4Z163W	20	3.92
	♥	40	5Z163B	20	4.39
	♥	40	5Z163G	20	4.39
	♥	40	5Z163W	20	4.39
	♥	50	2Z163B	10	8.38
	♥	50	2Z163G	5	8.38
	♥	50	2Z163W	5	8.38
	Bend – 45° – male and female				
	♥	32	4Z263B	5	3.33
	♥	32	4Z263W	5	3.33
	♥	40	5Z263B	10	3.88
	♥	40	5Z263G	10	3.88
	♥	40	5Z263W	10	3.88
	Long Tail Bend – 87.5°	50	2Z359G	5	13.07
Tees					
	Tee – 87.5°				
	♥	32	4Z190B	10	5.20
	♥	32	4Z190G	10	5.20
	♥	32	4Z190W	10	5.20
	♥	40	5Z190B	5	5.48
	♥	40	5Z190G	5	5.48
	♥	40	5Z190W	5	5.48
	♥	50	2Z190B	10	11.29
	♥	50	2Z190G	5	11.29
	♥	50	2Z190W	5	11.29






	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tee – 45°				
	♥	32	4Z210W	10	8.24
	♥	40	5Z210B	5	10.01
	♥	40	5Z210G	5	10.01
	♥	40	5Z210W	5	10.01
	♥	50	2Z210B	5	14.61
	♥	50	2Z210G	5	14.61
	♥	50	2Z210W	5	14.61
	Cross Tee				
	Cross – 87.5°				
	♥	40	5Z230W	5	17.65
	♥	50	2Z230W	5	26.72
	Plug				
	Access Plug				
	♥	32	4Z292B	10	4.33
	♥	32	4Z292G	5	4.33
	♥	32	4Z292W	5	4.33
	♥	40	5Z292B	15	4.56
	♥	40	5Z292G	15	4.56
	♥	40	5Z292W	15	4.56
	♥	50	2Z292B	5	8.06
	♥	50	2Z292G	5	8.06
	♥	50	2Z292W	5	8.06
Connectors and Adaptors					
	Straight Adaptor				
	– Push fit to solvent weld				
	♥	32	4Z120W	10	4.58
	♥	40	5Z120W	10	4.58
	Straight Tank Connector				
	♥	32	4Z185W	10	10.93
	♥	40	5Z185W	5	11.33
	Universal Connector				
	– for BS EN 1329, 1451, 1455 and 1566 pipe				
	♥	32	4W102B	10	6.45
	♥	32	4W102G	10	6.45
	♥	32	4W102W	10	6.45
	♥	40	5W102B	5	6.45
	♥	40	5W102G	5	6.45
	♥	40	5W102W	5	6.45
	♥	50	2W102G	10	6.20
	Male Cap and Liner				
	– male threaded component				
	♥	32	4Z363W	10	6.74
	♥	40	5Z363W	10	6.74
	Female Cap and Liner				
	– female threaded component				
	♥	32	4Z364G	1	4.38
	♥	32	4Z364W	5	4.38
	♥	40	5Z364W	5	4.93
	Female Iron Connector				
	– solvent weld socket and BSPT socket				
	♥	32	4Z127W	5	9.19
	♥	40	5Z127W	10	9.71

ABS Solvent Weld waste

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Male Iron Connector – SW/S and BSPT spigot				
	♥	32	4Z128W	5	8.68
	♥	40	5Z128W	10	9.19
	♥	50	2Z128W	5	11.44
Reducers					
	Socket Reducer – 2"/50mm x 1¼"/32mm	50	2Z088B	10	5.50
		50	2Z088G	5	5.50
		50	2Z088W	5	5.50
	Socket Reducer – 2"/50mm x 1½"/40mm	50	2Z086B	10	5.36
		50	2Z086G	5	5.36
		50	2Z086W	5	5.36
	Socket Reducer – 1½"/40mm x 1¼"/32mm	40	5Z455B	10	2.95
		40	5Z455G	10	2.95
		40	5Z455W	10	2.95
	Waste to Overflow Reducer – 32x21.5mm – solvent weld	32	1E344B	5	4.93
		32	1E344W	5	4.93
	– 40x21.5mm – solvent weld	40	1E346B	5	4.93
		40	1E346W	5	4.93
	Reducer to 21.5mm pipe – synthetic rubber	32	4Z343G	10	3.76
	Reducer to 35mm copper pipe – synthetic rubber	40	5Z344G	10	3.88
	Reducer – 2"/50mm x 1¼"/32mm – synthetic rubber	50	2Z347G	5	7.19
	Reducer to 42mm copper pipe – synthetic rubber	50	2Z349G	5	6.81
	Level Invert Reducer – 1½"/40mm x 1¼"/32mm	40	5Z085B	5	3.92
		40	5Z085G	5	3.92
		40	5Z085W	5	3.92
	Air Admittance Valve OasmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	78.47
	Fire Stop Seal Fire Stop Seal – 50mm	50	2S001	1	242.22






Osma 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	24.11
	♥	32	4M073E	10	24.11
	♥	32	4M073W	10	24.11
	♥	40	5M073B	10	26.31
	♥	40	5M073E	10	26.31
	♥	40	5M073W	10	26.31
	♥	50	2M073B	5	40.47
	♥	50	2M073E	10	40.47
	♥	50	2M073W	5	40.47
Bracket					
	Pipe Bracket				
	♥	32	4M081B	40	1.11
	♥	32	4M081E	40	1.11
	♥	32	4M081W	20	1.11
	♥	40	5M081B	35	1.13
	♥	40	5M081E	35	1.13
	♥	40	5M081W	35	1.13
	♥	50	2M081B	10	2.28
	♥	50	2M081E	20	2.28
	♥	50	2M081W	10	2.28
Sockets					
	Double Socket				
	♥	32	4M104B	10	4.54
	♥	32	4M104E	20	4.54
	♥	32	4M104W	10	4.54
	♥	40	5M104B	10	5.72
	♥	40	5M104E	20	5.72
	♥	40	5M104W	10	5.72
	♥	50	2M104B	5	9.29
	♥	50	2M104E	10	9.29
	Expansion Socket	32	4M124E	10	9.59
	– with solvent socket tail	32	4M124W	10	9.59
		40	5M124E	10	10.01
		40	5M124W	10	10.01
		50	2M124E	5	17.89
		50	2M124W	5	17.89
Bends					
	Knuckle Bend – 90°				
	♥	32	4M160B	30	6.78
	♥	32	4M160E	30	6.78
	♥	32	4M160W	30	6.78
	♥	40	5M160B	30	7.98
	♥	40	5M160E	30	7.98
	♥	40	5M160W	30	7.98
	♥	50	2M160B	5	14.25
	♥	50	2M160E	5	14.25
	♥	50	2M160W	5	14.25

Osma Waste






PVC-C Solvent Weld waste pipe and fittings







Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	8.29
	♥	32	4M161E	10	8.29
	♥	32	4M161W	10	8.29
	♥	40	5M161B	40	10.01
	♥	40	5M161E	40	10.01
	♥	40	5M161W	40	10.01
	♥	50	2M161B	5	13.92
	♥	50	2M161E	5	13.92
	♥	50	2M161W	5	13.92
	Bend – 45°				
	♥	32	4M163B	10	6.30
	♥	32	4M163E	10	6.30
	♥	32	4M163W	10	6.30
	♥	40	5M163B	20	7.08
	♥	40	5M163E	20	7.08
	♥	40	5M163W	20	7.08
	♥	50	2M163B	5	11.97
	♥	50	2M163E	5	11.97
	♥	50	2M163W	5	11.97
	Spigot Bend – 90°				
	♥	32	4M260B	5	8.76
	♥	32	4M260E	5	8.76
	♥	32	4M260W	5	8.76
	♥	40	5M260B	10	10.56
	♥	40	5M260E	10	10.56
	♥	40	5M260W	10	10.56
	♥	50	2M260B	5	15.70
	♥	50	2M260E	5	15.71
	♥	50	2M260W	5	15.71
	Tee				
	Tee – 87.5°				
	♥	32	4M190B	5	10.84
	♥	32	4M190E	5	10.84
	♥	32	4M190W	5	10.84
	♥	40	5M190B	15	12.35
	♥	40	5M190E	15	12.35
	♥	40	5M190W	15	12.35
	♥	50	2M190B	5	19.24
	♥	50	2M190E	5	19.24
	♥	50	2M190W	5	19.24
	Plug				
	Access Plug				
	♥	32	4M292B	5	6.70
	♥	32	4M292E	5	6.70
	♥	32	4M292W	5	6.70
	♥	40	5M292B	5	6.59
	♥	40	5M292E	5	6.59
	♥	40	5M292W	5	6.59
	♥	50	2M292B	5	11.45
	♥	50	2M292E	5	11.45
	♥	50	2M292W	5	11.45

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	Reducer – 1½" / 40mm x 1¼" / 32mm				
	▽	40	5M455B	10	4.22
	▽	40	5M455E	10	4.22
	Reducer – 2" / 50mm x 1¼" / 32mm				
	▽	50	2M458B	5	7.95
	▽	50	2M458E	5	7.95
	▽	50	2M458W	5	7.95
	Reducer – 2" / 50mm x 1½" / 40mm				
	▽	50	2M456B	5	7.95
	▽	50	2M456E	5	7.95
	▽	50	2M456W	5	7.95

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	10.34
	♥	32	4W073G	10	10.34
	♥	32	4W073W	10	10.34
	♥	40	5W073B	10	11.96
	♥	40	5W073G	10	11.96
	♥	40	5W073W	10	11.96
	Bracket				
	Pipe Bracket				
	♥	32	4W081B	30	1.04
	♥	32	4W081G	30	1.04
	♥	32	4W081W	30	1.04
	♥	40	5W081B	30	0.97
	♥	40	5W081G	30	0.97
	♥	40	5W081W	30	0.97
	Socket				
	Double Socket				
	♥	32	4W105B	15	3.39
	♥	32	4W105G	15	3.39
	♥	32	4W105W	15	3.39
	♥	40	5W105B	15	3.60
	♥	40	5W105G	15	3.60
	♥	40	5W105W	15	3.60
	Bends				
	Knuckle Bend – 90°				
	♥	32	4W160B	10	3.13
	♥	32	4W160G	10	3.13
	♥	32	4W160W	10	3.13
	♥	40	5W160B	30	3.14
	♥	40	5W160G	30	3.14
	♥	40	5W160W	30	3.14
	Bend – 87.5°				
	♥	32	4W161B	10	3.39
	♥	32	4W161G	10	3.39
	♥	32	4W161W	10	3.39
	♥	40	5W161B	10	3.39
	♥	40	5W161G	10	3.39
	♥	40	5W161W	10	3.39
	♥	40	5W161W	10	3.39

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 45°				
	♥	32	4W163B	15	3.39
	♥	32	4W163G	15	3.39
	♥	32	4W163W	15	3.39
	♥	40	5W163B	20	3.13
	♥	40	5W163G	20	3.13
	♥	40	5W163W	20	3.13
	♥	50	2W163G	5	6.45
	♥	50	2W163W	5	6.45
	Spigot Bend – 30°				
	♥	32	4W166B	10	3.13
	♥	32	4W166W	10	3.13
	♥	40	5W166B	5	3.13
	♥	40	5W166G	5	3.13
	♥	40	5W166W	5	3.13
	Spigot Bend – 90°				
	♥	32	4W260B	10	3.60
	♥	32	4W260G	10	3.60
	♥	32	4W260W	10	3.60
	♥	40	5W260B	10	3.60
	♥	40	5W260G	10	3.60
	♥	40	5W260W	10	3.60
	♥	50	2W260W	5	5.97
	Tee				
	Tee – 87.5°				
	♥	32	4W190B	15	3.60
	♥	32	4W190G	15	3.60
	♥	32	4W190W	15	3.60
	♥	40	5W190B	10	3.14
	♥	40	5W190G	10	3.14
	♥	40	5W190W	10	3.14
	♥	50	2W190G	5	5.97
	♥	50	2W190W	5	5.97
	Plug				
	Access Plug				
	♥	32	4W292B	5	3.39
	♥	32	4W292G	5	3.39
	♥	32	4W292W	5	3.39
	♥	40	5W292B	5	3.13
	♥	40	5W292G	5	3.13
	♥	40	5W292W	5	3.13
	♥	50	2W292G	10	6.10
	♥	50	2W292W	10	6.10
	Connectors and Adaptors				
	Universal Connector				
	– for BS EN 1329, 1451, 1455 and 1566 pipe				
	♥	32	4W102B	10	6.45
	♥	32	4W102G	10	6.45
	♥	32	4W102W	10	6.45
	♥	40	5W102B	5	6.45
	♥	40	5W102G	5	6.45
	♥	40	5W102W	5	6.45
	♥	50	2W102G	10	6.20

Osma Waste

PP Push-fit waste

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tank Connector ♥	40	5W185B	5	4.01
	Reducers Reducer – 1½" / 40mm x 1¼" / 32mm	40	5W084B	5	3.13
		40	5W084G	5	3.13
		40	5W084W	5	3.13
	Reducer – 2" / 50mm x 1¼" / 32mm	50	2W088G	5	5.33
		50	2W088W	5	5.33
	Reducer – 2" / 50mm x 1½" / 40mm	50	2W086G	5	5.97
		50	2W086W	5	5.97
	Reducer 32 x 21.5mm – Push-fit 40 x 21.5mm – Push-fit	32	1C344W	5	4.93
		40	1C346W	10	4.93
	Air Admittance Valve OsmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	78.47
	Fire Stop Seal Fire Stop Seal – 50mm	50	2S001	1	242.22












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	23.84
	450mm	40	5V901W	1	24.33
	Spigot Connector – 165mm to 290mm	40	5V902W	1	17.71
	Bottle Traps				
	Bottle Trap – 38mm seal	32 40	4V809W 5V809W	1 1	17.46 23.19
	Bottle Trap – 75mm seal	32 40	4V812W 5V812W	1 1	21.73 26.61
		Anti-Syphon Bottle Trap – 75mm seal	32 40	4V814W 5V814W	1 1
		Resealing Bottle Trap – 75mm seal	32 40	4V816W 5V816W	1 1
		Adjustable Bottle Trap – 75mm seal	32 40	4V808W 5V808W	1 1
	Tubular Traps				
	Tubular 'P' Trap – 75mm seal	32 40 50	4V801W 5V801W 2V801W	1 1 1	16.64 18.94 49.24
		Tubular 'S' Trap – 75mm seal	32 40	4V803W 5V803W	1 1
		Adjustable Tubular 'P' Trap – 75mm seal	32 40	4V807W 5V807W	1 1
		Variform Trap – 75mm seal	32	4V804W	1
	Running 'P' Trap – 75mm seal	40	5V805W	1	33.40
		50	2V805W	1	58.05

Osma Waste






Waste connectors and V-Joint traps

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Through Trap – 75mm seal	32	4V825W	1	27.73
	Plumbing Kit 1 – to suit 1.5 or 2 bowl sink	40	5V408W	1	51.34
	Swivel 'P' Trap	32	4V811W	10	14.83
		40	5V811W	10	16.09
	Bath Traps Bath Trap – 38mm seal	40	5V802W	1	22.15
	Bath Trap – shallow seal	32	4V806W	1	18.09
		40	5V806W	1	15.03
	Bath Trap – 75mm seal	40	5V846W	1	28.09
	Bath Trap and Overflow – 75mm	40	5V848W	1	70.65
	Anti-Syphon Bath Trap	40	5V842W	1	30.84
	Bath Trap Extended Body – 60mm seal	40	5V860W	1	62.06
	Shower Traps Shower Trap – 19mm seal	40	5V823W	1	36.49
	Shower Trap – 50mm seal	40	5V824W	1	40.21

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Shower and Floor Gullies					
	Adaptor for 2V500 – to stainless steel	50	2V501G	1	65.47
	Shower Gully – sheet floor	50	2V510W	1	330.00
	Vinyl Floor Gully – 82mm outlet	82	2V411G	1	207.74
	Floor Gully – c/w stainless steel tile and grid	50	2V502G	1	118.03
	Floor Gully – c/w stainless steel tile and grid	82	2V412G	1	157.95
	Rubber Boss Adaptor * – 2" / 50 plastic or copper pipe	32	2S498B	10	9.81
		40	2S499B	10	9.81
		50	2S503B	10	10.23
* for use with Osma 2V411, 2V412 and 2V502 Floor Gullies only					
	Stainless Steel Tile and Grid	-	2V414G	1	131.23
	Gully Funnel Bowl	-	2V415G	1	16.65
	Gully Extension Bowl	-	2V416G	1	16.65
	Gully Funnel	-	2V418G	1	21.95
Washing Machine Sink Traps					
	Washing Machine Half Trap – 75mm seal	40	5V864W	1	33.55
	Adjustable Sink Trap – 75mm seal	40	5V869W	1	49.24
	Tubular Swivel Sink Trap – 40mm x 75mm (adjustable) with 19/22mm connection	40	5V407W	1	43.54







Osma Waste

Waste connectors and V-Joint traps

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Washing Machine Trap Kit Includes stand pipe and 2 brackets – 75mm seal	40	5V870W	1	28.68
	Washing Machine Tee Piece	40	5V871W	1	15.37
Ancillaries					
	Conversion Bend – 90° – for "P" Trap to convert to "S" Trap	32	4A830W	20	5.99
		40	5A830W	10	6.43
	Top Trap Washer	32	4V001W	50	1.94
		40	5V002W	50	1.94
	Bottle Trap Bowl Washer – for 4V809/4V812, 5V809/5V812	32	4V003W	50	2.38
		50	2V004W	50	2.38








Osma 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	93.64
Connectors and Adaptors					
	Overflow to Waste Clamp For connection to 32mm or 40mm Push-fit or Solvent Weld pipe	21.5	AO21 WH	1	27.40
	Pipe Clamp – 32/40mm waste and 21.5mm connection	21.5	1V402W	1	46.84
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection	40	5V407W	1	43.54
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle	40	5V468W	1	49.94
	Reducer – to 21.5mm pipe – synthetic rubber	32	4Z343G	10	3.76

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	7.62
	4.0m Push-fit	21.5	1C074W	10	9.05
	Pipe Clip Solvent Push-fit	21.5	1E082W	10	1.20
	Double Socket				
	Solvent	21.5	1E104W	30	3.41
	Push-fit	21.5	1C104W	10	3.41
	Bends				
	Solvent – 90°	21.5	1E160W	10	3.55
	Push-fit – 90°	21.5	1C160W	30	3.32
	Solvent – 45°	21.5	1E166W	10	4.07
	Push-fit – 45°	21.5	1C163W	20	4.07
	Solvent – 25°	21.5	1E163W	10	4.07
	Tee				
	Solvent – 90°	21.5	1E190W	5	4.38
	Push-fit – 90°	21.5	1C190W	5	4.76
	Tank Connectors				
	Straight Tank Connector	21.5	1E129W	5	5.33
	Bent Tank Connector				
	90° Solvent	21.5	1E139W	5	5.95
	90° Push-fit	21.5	1C139W	5	6.22
	– cut off bend to convert to straight connector				
	Reducers				
	Reducer Solvent Weld				
	32x21.5mm	32	1E344B	5	4.93
	32x21.5mm	32	1E344W	5	4.93
	40x21.5mm	40	1E346B	5	4.93
	40x21.5mm	40	1E346W	5	4.93
	Reducer Push-fit				
	32x21.5mm	32	1C344W	5	4.93
	40x21.5mm	40	1C346W	10	4.93

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Cap and Lining Cap and Lining	21.5	1E156W	20	4.93
	Tundish Tundish	21.5	1O149W	1	17.08
	Adaptors Compression Fitting Adaptor – straight – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O158W	10	3.41
	Compression Fitting Adaptor – 90° – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O159W	10	4.07





Osma Hep_vO Waste

Hygienic self-sealing waste valves – Polypropylene




Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep_vO Hygienic Self Sealing Waste Valve				
	Hep _v O Valve	32 40	BV1 WH CV1 WH	10 10	31.14 31.14
	Hep_vO Knuckle Adaptor				
	Hep _v O 87.5° Knuckle Adaptor	32 40	BV11 WH CV11 WH	10 10	7.86 7.86
	Hep_vO Running Adaptor				
	For installing Hep _v O in a pipe run	32 40	BV3 WH CV3 WH	10 10	7.49 7.49
	Hep_vO Tundish Adaptor				
	Hep _v O Tundish Adaptor Kit	32	BV1/21 WH	5	42.10

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	29.08	
	3.0m	40	FCP3 WH	1	29.08	
	6.0m	32	FBP6 WH	1	58.11	
	6.0m	40	FCP6 WH	1	58.11	
	Spigot Connectors – To Push-fit Waste	40	FCW6 WH	1	2.57	
	– To Solvent Weld Waste					
		32	FSBW6 WH	10	2.57	
		40	FSCW6 WH	10	2.57	
	Flexible Waste Connector – Spigot : Spigot					
	Effective length					
	Fabricated length					
	– To Push-fit Waste	365	40	FCW30 WH	1	13.59
	Fabricated length					
– To Solvent Weld Waste	365	40	FSCW30 WH	1	13.59	

Flexible soil pipe

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexible Pan Connector – Long	110	S170 WH	1	48.04
	Nominal length 280mm, nominal extended length 920mm				
	Flexible Pan Connector – Short	110	S171 WH	1	46.05
	Nominal length 230mm, nominal extended length 670mm				
	Flexible Pan Connector – Extra Short	110	S172 WH	1	44.07
	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 Soil Adaptor				
	For 32mm or 21.5mm connection to 110mm soil pipe				
		21.5	S117 GR	1	13.11
		21.5	S117 BL	1	13.11
	Condensate Soakaway	21.5	S951 BL	1	34.80

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 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	87.94
	3.0m	160	3003331	1	174.32
	S/S Pipe				
	3.0m	110	3012211	1	91.04
	0.15m	110	3074619	12	31.00
	0.15m	160	3074622	6	52.06
	2.0m	110	3003362	1	71.20
	Couplers				
	Compensator Socket	110	3074603	12	21.47
		160	3074606	8	41.45
	D/S Sleeve	110	3074610	12	14.86
		160	3074612	6	43.29
	Reducer				
	Single Socket Reducer 160/110	160	3074698	6	28.63
	Bends				
	S/S Bend				
	15°	110	3074637	10	20.87
		160	3074647	6	47.34
	30°	110	3074638	9	22.29
		160	3074648	5	48.66
	45°	110	3074639	12	23.53
		160	3074649	4	50.01
	67°	110	3074640	7	23.85
	87°	110	3074641	6	24.47
		160	3074650	4	53.71
	Branches				
	S/S Equal Branch				
	45°	110	3074673	4	39.68
	45°	160	3074681	1	112.32
	67°	110	3074674	4	65.34
	87°	110	3074713	4	71.15
	S/S Unequal Branch				
	45°	160	3074680	2	81.38
	S/S Double Branch 87°	110	3074715	3	133.12
	S/S Corner Branch 87°	110	3074684	5	191.95






Note: Wavin AS is available in light grey.

Wavin AS

Acoustic Soil system – Astolan® and PVC-U












	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/S WC Manifold Branch				
	Straight	110	3020490	1	145.12
	8° left hand	110	3020491	1	145.12
	15.5° left hand	110	3020492	1	145.12
	23° left hand	110	3020493	1	145.12
	30.5° left hand	110	3020494	1	145.12
	38° left hand	110	3020495	1	145.12
	8° right hand	110	3020496	1	145.12
	15.5° right hand	110	3020497	1	145.12
	23° right hand	110	3020498	1	145.12
	30.5° right hand	110	3020499	1	145.12
	38° right hand	110	3020500	1	145.12
	Access Pipe				
	S/S Access Pipe	110 160	3074687 3074689	4 2	49.09 116.49
	Waste Connections				
	Single Boss Pipe Spigot Tail				
	32mm	110	3020506	4	29.77
	40mm	110	3020507	4	39.55
	50mm	110	3020508	1	42.53
	Soil Manifold	110	3065902	1	72.00
	All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 3065902	40	4Z124W*	10	6.59
	All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 3065902	50	2S355W*	10	10.90
	All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 3065902	50	2S356W*	5	17.94
	Adaptor to Cast Iron				
	Connector to Cast Iron	110 160	4006566 4006568	1 1	18.83 70.55
	Stop-End				
	Socket Plug	110 160	3074704 3074706	12 7	14.28 52.57
	Safety Clip For Socket Plug				
		110 160	4006571 4006573	1 1	166.38 424.63

Note: Wavin AS is available in light grey. * OAG discount applies.










Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Fire Collars				
	Fire Collar	110 160	3020509 3020513	1 1	115.35 195.36
<hr/>					
	Accessories				
	Pipe Bracket	110 160	3020510 3020514	25 10	10.57 16.34
	M10 x 80mm Bolt	110	3020511	50	14.49
<hr/>					
	Spare Seals/Gaskets				
	Spare Sealing Ring	110 160	4006583 3000177	1 1	1.84 4.53
	Spare Collar	110 160	4006554 4006556	1 1	9.42 21.81
<hr/>					

Wavin 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	72.50
	P/E Pipe – 4.0m ♥	82	3S074G	2	112.33
	♥ ♻️	110	4S074E	2	96.66
	♥ ♻️	160	6S074E	2	338.19
Brackets					
	Pipe Bracket ♥	82	3S082G	5	8.64
	♥	110	4S082E	20	7.39
	♥	160	6S082E	1	27.10
	Socket Bracket ♥	82	3S083G	5	11.19
	♥	110	4S083E	5	9.59
	Pipe or Socket Bracket – BZP coated steel ♥	82	3S084	10	20.90
	♥	110	4S084	10	21.33
	♥	160	6S084	1	45.01
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	69.33
		160	6S086	1	98.84
	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	142.70
		160	6S085	1	167.57
Sockets					
	D/SW Double Socket ♥	110	4S104E	10	16.26
	♥	160	6S104E	1	39.36
	S/SW Single Socket ♥	82	3S124G	5	18.94
	♥	110	4S124E	5	16.92
	♥	160	6S124E	5	57.90
	D/S Acoustic Socket ♥	110	4S125E	5	25.69










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

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	SW/S Reducer				
	110mm x 50mm ♥	110	4S496E	5	33.70
	160mm x 110mm ♥	160	6S499E	1	63.53
	Expansion Cap				
	Expansion Cap	110	4S416E	5	7.84
	– with integral ring–seal	160	6S416E	5	20.17
	Bends				
	D/SW Bend				
	87.5° ♥	110	4S461E	5	44.05
	♥	160	6S461E	1	116.03
	45° ♥	110	4S463E	5	43.99
	♥	160	6S463E	1	118.84
	SW/S Bend				
	45° ♥	110	4S263E	5	47.64
					
	11.25° ♥	110	4S268E	5	45.97
					
	SW/S Long Tail Bend – 87.5° ♥	110	4S260E	5	50.61
	Offset Bends				
	SW/S Offset Bend – 67.5° (Bottom) ♥	82	3S435G	5	40.08
	♥	110	4S435E	5	41.81
	S/SW Offset Bend – 67.5° (Top) ♥	82	3S440G	5	47.29
	♥	110	4S440E	5	57.35
	D/SW Offset Bend – 67.5° (Top) ♥	110	4S450E	5	46.65
					
	Boss Adaptors				
	Solvent Weld – 90° ♥	40	2CS812SE	10	9.87
	♥	50	2CS813SE	10	14.03
	Solvent Weld – Straight ♥	32	2CS814SE	10	8.23
	♥	40	2CS815SE	10	7.60
	♥	50	2CS816SE	10	9.06
					

Wavin Compact










PVC-U Solvent Soil

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Branches					
	D/SW Double 2-Boss Branch – 87° ♥	110	4CS829SE	1	155.87
	SW/S Double 2-Boss Branch – 87.5° ♥	110	4CS831SE	1	155.87
	D/SW Double 4-Boss Branch – 87.5° ♥	110	4CS832SE	1	155.87
	SW/S Double 4-Boss Branch – 87.5° ♥	110	4CS834SE	1	155.87
	SW/S Corner Branch – 87.5° ♥	110	4CS491SE	1	275.83
Access Branch					
	D/SW 2-Boss Access Branch – 87.5° ♥	110	4CS893SE	1	118.16
Single Branches					
	D/SW Single Branch 45° ♥	110	4S410E	5	70.39
	SW/S Single 3-Boss Branch – 87.5° ♥	110	4CS889SE	1	64.17
	D/SW Single 3-Boss Branch – 87.5° ♥	110	4CS890SE	5	62.27
	S/SW Single 3-Boss Branch – 87.5° ♥	110	4CS892SE	5	62.30
	D/SW Single Branch – 87.5° (No Bosses) ♥	160	6S490E	1	198.11

	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	64.81
		110	4CS897SE	1	64.81
	Soil Manifolds 6 Boss Manifold	110	4S597E	1	70.44
	Bossed Pipes D/SW Short 3-Boss Pipe ♥	110	4CS588SE	1	16.10
	D/SW Bossed Pipe – plain (four boss sockets) ♥	110	4CS586SE	1	21.53
	SW/S Bossed Pipe – plain (four boss sockets) ♥	110	4CS585SE	5	21.53
	D/SW Bossed Pipe (Solvent Weld) – for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S483E	5	19.35
	– 1½" / 40mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S484E	5	19.35
	Strap Boss Strap Boss ♥	110	4CS319SE	5	15.02
	Access Fittings D/SW Access Bend – 87.5° ♥	110	4S469E	5	111.01












Wavin Compact

PVC-U Solvent Soil

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	78.24
	SW/S 3-Boss Access Pipe – with screwed access and three boss sockets ♥ ♥	110 160	4CS574SE 6CS474SE	5 5	78.24 167.35
Plugs					
	P/E Access Plug ♥ ♥	82 110	3S292G 4S292E	5 1	37.42 35.02
	SW/S Access Plug ♥	110	4S492E	5	44.11
	P/E Socket Plug – with one boss socket ♥	110	4S296E	5	24.69
Terminal Fittings					
	Balloon Grating	82 110	3S302G 4S302E	5 5	13.62 10.37
	Weathering Collar	82 110	3S300G 4S300E	5 5	16.44 15.34
	SW/S Vent Cowl ♥	110	4S310E	1	52.37
Roof Outlets					
	SW/S Domed Roof Outlet	82 110	3S414G 4S414G	1 1	131.77 146.19

Wavin 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	86.12
	♥ ♻️	160	6S043E	10	280.72
	S/S Pipe – 4.0m				
	♥	82	3S044G	2	112.77
	♥ ♻️	110	4S044E	2	101.68
	Sockets				
	D/S Double Socket – for repairs				
	♥	82	3S105G	5	32.49
	♥	110	4S105E	1	35.08
	♥	160	6S105E	1	98.84
	Connectors				
	S/S Connector to CI or clay drain socket				
	♥	110	4S107E	5	29.43
 	Reducers				
	S/S Reducer				
	82mm x 50mm				
	♥	82	3S094G	5	39.70
	110mm x 50mm				
	♥	110	4S096E	5	37.36
	110mm x 82mm				
	♥	110	4S095E	5	34.26
	160mm x 110mm				
	♥	160	6S099E	1	87.71
  	Bends				
	S/S Bend				
	87.5°				
	♥	82	3S161G	5	38.47
	♥	110	4S161E	5	44.79
	67.5°				
	♥	82	3S162G	5	47.96
	45°				
	♥	82	3S163G	5	38.47
	Adjustable Bends				
	S/S Adjustable Bend – 30°				
	▲	110	4S173E	1	56.27

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

Wavin Compact






PVC-U Ring-seal soil






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Boss Adaptors Push-fit – 90° ♥	32	2CS801SE	10	14.03
	♥	40	2CS802SE	10	14.03
	Push-fit – Straight ♥	32	2CS804SE	10	8.23
	♥	40	2CS805SE	10	8.23
	Branches S/S Double 2-Boss Branch – 87.5° ♥	110	4CS830SE	1	158.11
	Variable 6-Boss Branch S/S 110mm Variable 6-Boss Branch – 87.5° ♥	110	4CS852SE	5	132.16
	Single Branches S/S Single 2-Boss Branch – 87.5° ♥	82	3CS190SG	5	68.46
	S/S Single 3-Boss Branch – 87.5° ♥	110	4CS891SE	5	63.23
	Single 5-Boss Branches S/S Single 5-Boss Branch – 87.5° ♥	110	4CS896SE	5	81.95
	Unequal Single 5-Boss Branch D/S Unequal Single 5-Boss Branch – 87.5° ♥	160	6CS897SE	1	152.84
	Unequal Junctions S/S Unequal Junction 45° ♥	160	6CS218SE	1	273.96

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Manifolds Soil Manifold System 	110	4S595E	1	77.46
	 All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 4S595	40	4Z124W	10	6.59
	 All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 4S595	50	2S355W	10	10.90
	 All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 4S595	50	2S356W	5	17.94
	Bossed Pipes S/S Bossed Pipe – plain with one boss socket 	82	3CS649SG	10	36.72
	 S/SW Bossed Pipe – plain (four boss sockets) 	110	4CS590SE	5	31.20
	Access Fittings S/S Access Pipe – no bosses 	82	3S274G	5	75.59

Wavin 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	24.11
	♥	32	4M073E	10	24.11
	♥	32	4M073W	10	24.11
	♥	40	5M073B	10	26.31
	♥	40	5M073E	10	26.31
	♥	40	5M073W	10	26.31
	♥	50	2M073B	5	40.47
	♥	50	2M073E	10	40.47
	♥	50	2M073W	5	40.47
	Bracket Pipe Bracket				
	♥	32	4M081B	40	1.11
	♥	32	4M081E	40	1.11
	♥	32	4M081W	20	1.11
	♥	40	5M081B	35	1.13
	♥	40	5M081E	35	1.13
	♥	40	5M081W	35	1.13
	♥	50	2M081B	10	2.28
	♥	50	2M081E	20	2.28
	♥	50	2M081W	10	2.28
 	Sockets Double Socket				
	♥	32	4M104B	10	4.54
	♥	32	4M104E	20	4.54
	♥	32	4M104W	10	4.54
	♥	40	5M104B	10	5.72
	♥	40	5M104E	20	5.72
	♥	40	5M104W	10	5.72
	♥	50	2M104B	5	9.29
	♥	50	2M104E	10	9.29
	♥	50	2M104W	5	9.29
	Expansion Socket – with solvent socket tail	32	4M124E	10	9.59
		32	4M124W	10	9.59
		40	5M124E	10	10.01
		40	5M124W	10	10.01
		50	2M124E	5	17.89
		50	2M124W	5	17.89
	Bends Knuckle Bend – 90°				
	♥	32	4M160B	30	6.78
	♥	32	4M160E	30	6.78
	♥	32	4M160W	30	6.78
	♥	40	5M160B	30	7.98
	♥	40	5M160E	30	7.98
	♥	40	5M160W	30	7.98
	♥	50	2M160B	5	14.25
	♥	50	2M160E	5	14.25
	♥	50	2M160W	5	14.25

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	8.29
	♥	32	4M161E	10	8.29
	♥	32	4M161W	10	8.29
	♥	40	5M161B	40	10.01
	♥	40	5M161E	40	10.01
	♥	40	5M161W	40	10.01
	♥	50	2M161B	5	13.92
	♥	50	2M161E	5	13.92
	♥	50	2M161W	5	13.92
	Bend – 45°				
	♥	32	4M163B	10	6.30
	♥	32	4M163E	10	6.30
	♥	32	4M163W	10	6.30
	♥	40	5M163B	20	7.08
	♥	40	5M163E	20	7.08
	♥	40	5M163W	20	7.08
	♥	50	2M163B	5	11.97
	♥	50	2M163E	5	11.97
	♥	50	2M163W	5	11.97
	Spigot Bend – 90°				
	♥	32	4M260B	5	8.76
	♥	32	4M260E	5	8.76
	♥	32	4M260W	5	8.76
	♥	40	5M260B	10	10.56
	♥	40	5M260E	10	10.56
	♥	40	5M260W	10	10.56
	♥	50	2M260B	5	15.70
	♥	50	2M260E	5	15.71
	♥	50	2M260W	5	15.71
	Tees				
	Tee – 87.5°				
	♥	32	4M190B	5	10.84
	♥	32	4M190E	5	10.84
	♥	32	4M190W	5	10.84
	♥	40	5M190B	15	12.35
	♥	40	5M190E	15	12.35
	♥	40	5M190W	15	12.35
	♥	50	2M190B	5	19.24
	♥	50	2M190E	5	19.24
	♥	50	2M190W	5	19.24
	Plug				
	Access Plug				
	♥	32	4M292B	5	6.70
	♥	32	4M292E	5	6.70
	♥	32	4M292W	5	6.70
	♥	40	5M292B	5	6.59
	♥	40	5M292E	5	6.59
	♥	40	5M292W	5	6.59
	♥	50	2M292B	5	11.45
	♥	50	2M292E	5	11.45
	♥	50	2M292W	5	11.45

















Wavin Compact

PVC-C Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	Reducer				
	1½" / 40mm x 1¼" / 32mm				
	♥	40	5M455B	10	4.22
	♥	40	5M455E	10	4.22
	♥	40	5M455W	10	4.22
	2" / 50mm x 1¼" / 32mm				
	♥	50	2M458B	5	7.95
	♥	50	2M458E	5	7.95
	♥	50	2M458W	5	7.95
	2" / 50mm x 1½" / 40mm				
	♥	50	2M456B	5	7.95
	♥	50	2M456E	5	7.95
	♥	50	2M456W	5	7.95



Wavin 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	223.20
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	223.20
	(RH) ▽	110	4S612W	1	223.20
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	223.20
	(RH) ▽	110	4S613W	1	223.20
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	223.20
	(RH) ▽	110	4S614W	1	223.20
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	223.20
	(RH) ▽	110	4S615W	1	223.20
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	223.20
	(RH) ▽	110	4S616W	1	223.20
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	33.91
	SW/S WC Connector – 2.5° ▽	110	4S792W	5	35.88
	P/E WC Connector – 14° ▽	110	4S711W	5	40.21
	P/E WC Connector – 90° ▽	110	4S771W	10	57.53
	SW/S WC Connector – 90° ▽	110	4S772W	10	49.93

Wavin Compact

Accessories – 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	44.60
	WC Gasket – for WC spigots from 4" to 4¼"	110	4S121W	10	20.63
	WC Gasket – for WC spigots from 4¼" to 4½"	110	4S120W	10	19.35
	WC Connectors – Ancillaries S/S Long Tail Bend – 87.5° ♥	110	4S790W	5	57.35
	P/E Pipe – 600mm length				
	♥ ♻️ Made with Wavin Recycore Technology™ 50% RECYCLED RAW MATERIAL	110	4S600W	1	32.54

Accessories – WC connectors: Easy-fit

Description		Nom dia inch	Cat no	Pack qty	Price £ per piece
	Easy-Fit Pan Connectors Style 1 – Straight	3½in 4in	WC003W WC004W	1 1	24.27 17.99
	Style 1 – Offset	4in	WC204W	1	22.07
	Style 1 – 14°	4in	WC144W	1	23.22
	Style 90°	4in	WC904W	1	25.79
	Straight Extension Piece	4in	WC404W	1	22.11




Wavin 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	78.47
	OsmaVent Air Admittance Valve – can also be adapted to fit 82mm soil 	110	4S304W	1	177.34
Pipe Flashings					
	VariPitch Pipe Flashing – 400mm x 400mm – for flat roofs		4S281G	5	141.05
	– 450mm x 450mm – for pitched roofs		4S283G	5	135.87
Connectors					
	Internal Drain Connector – for 32mm/40mm waste pipe	110	4S298	5	17.17
	– for 50mm waste pipe	110	4S299	5	19.77
Fire Stop Seal					
	Fire Stop Seal	50	2S001	1	242.22
		82	3S001	1	309.94
		110	4S001	1	306.72
Female Iron Connector					
	– solvent weld socket and BSPT socket	32	4Z127W	5	9.19
		40	5Z127W	10	9.71
Male Iron Connector					
	– SW/S and BSPT spigot   	32	4Z128W	5	8.68
		40	5Z128W	10	9.19
		50	2Z128W	5	11.44
Spares					
	Snap Cap	82	3S116G	1	2.25
	T Ring Seal	82	3S130G	5	3.67
Cleaners, Solvent Cements, Lubricants					
	Degreasing Cleaner No.1 – 250ml can	–	4S380G	10	18.64












Wavin Compact

Accessories

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Solvent Cement No. 2 – 250ml can ♥	–	4S384G	10	29.07
	– 500ml can ♥	–	4S385G	10	63.27
	Silicone Lubricant – 50g tube	–	4S391G	5	24.26
	Silicone Lubricant Spray – 400ml can	–	4S392	1	42.23



Wavin 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	18.09
		40	5V806W	1	15.03
	Tubular 'P' Outlet – Lowline bath 50mm seal	40	5V802W	1	22.15
	Bottle 'P' Outlet – Top entry shower chrome waste 50mm seal	40	5V824W	1	40.21
	Tubular 'P' Outlet – Swivel, 76mm seal ♥	32	4V801W	1	16.64
		40	5V801W	1	18.94
	Tubular 'P' Outlet – Swivel, 76mm seal c/w cleaning eye ♥	40	5V846W	1	28.09
	Tubular 'P' Outlet – Swivel, 76mm seal telescopic maximum 40mm extension ♥	40	5V807W	1	28.78
	Tubular 'Running' – Swivel, 76mm seal	40	5V805W	1	33.40
		50	2V805W	1	58.05
	Tubular 'S' Outlet – Swivel, 76mm seal ♥	32	4V803W	1	20.37
		40	5V803W	1	30.52
	Pedestal Trap – Fixed, 76mm seal	32	4V825W	1	27.73
	Bottle 'P' Outlet 38mm seal	32	4V809W	1	17.46
		40	5V809W	1	23.19
	Bottle 'P' Outlet 76mm seal	32	4V812W	1	21.73
		40	5V812W	1	26.61











Wavin 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	37.66
	Bottle 'P' Anti-Syphon – 76mm seal	32 40	4V814W 5V814W	1 1	28.98 36.58
	Washing Machine Traps Washing Machine Trap Kit – 76mm seal c/w 0.6m pipe	40	5V870W	1	28.68
	Washing Machine Half Trap – Swivel 76mm seal	40	5V864W	1	33.55
	Washing Machine Tee	40	5V871W	1	15.37
	Cap and Lining Cap and Lining – BSP Male Iron Tail Unequal ends, 1 1/4"– 32mm to 1 1/2"– 40mm ♥	32	4Z363W	10	6.74
	Unequal ends, 1 1/2"– 40mm to 1 1/4"– 32mm ♥	40	5Z363W	10	6.74
	Spigot Bend Spigot Bend – 87.5° – Varifix socket to convert 'P' to 'S' outlet	32 40	4A830W 5A830W	20 10	5.99 6.43
	Shower Gully – for sheet flooring	50	2V510W	1	330.00





Wavin Compact

Overflow

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe P/E Pipe – 3.0m solvent	21.5	1E073W	10	7.62
	Pipe Clip Solvent	21.5	1E082W	10	1.20
	Double Socket Solvent	21.5	1E104W	30	3.41
	Bends Solvent 90°	21.5	1E160W	10	3.55
	45°	21.5	1E166W	10	4.07
	25°	21.5	1E163W	10	4.07
	Tee Solvent – 90°	21.5	1E190W	5	4.38
	Tank Connectors Straight Tank Connector	21.5	1E129W	5	5.33
	Bent Tank Connector – 90° Solvent	21.5	1E139W	5	5.95
	Reducers Solvent 32 x 21.5mm reducer	32	1E344W	5	4.93
	40 x 21.5mm reducer	40	1E346W	5	4.93
	Cap and Lining Cap and Lining	21.5	1E156W	20	4.93
	Tundish Tundish	21.5	1O149W	1	17.08





Wavin 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	93.64
Connectors and Adaptors					
	Pipe Clamp – 32/40mm waste and 21.5mm connection	21.5	1V402W	1	46.84
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection	40	5V407W	1	43.54
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle	40	5V468W	1	49.94

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	36.34
	PE Pipe – 5.0m	40	3003465	1	17.21
		50	3003466	1	20.39
		56	3003477	1	24.01
		63	3003467	1	28.05
		75	3003468	1	32.43
		90	3003458	1	48.33
		110	3003459	1	60.57
		125	3003460	1	87.13
		160	3003461	1	136.16
		200	3003462	1	181.60
		250	3003463	1	289.26
		315	3003464	1	449.63
	Reducers				
	Concentric Reducer	56/50	3003820	20	2.91
		63/56	3003798	20	2.89
		110/56	3003858	10	5.29
		110/63	3003808	10	5.34
		110/75	3003809	10	5.34
		110/90	3003810	10	5.29
		125/110	3003815 ^Δ	10	8.50
		160/110	3003816	5	9.43
		200/160	3018808*	1	59.96
		250/200	3018809*	1	157.56
		315/250	3018810 ^{*Δ}	1	218.27
	Eccentric Reducer	50/40	3003821	20	3.13
		56/50	3003841	20	3.42
		75/40	3003824 ^Δ	20	4.12
		75/50	3003825	20	4.14
		75/56	3003843	20	4.13
		75/63	3003826	20	4.14
		90/63	3003828	20	5.54
		90/75	3003829	20	5.58
		110/40	3003830	20	6.05
		110/50	3003831	20	5.90
		110/56	3003835	20	6.03
		110/63	3003832	20	6.05
		110/75	3003833	20	6.06
		110/90	3003834	20	6.02
		160/110	3003839	5	13.22
		160/125	3003840	5	13.23
	Eccentric Reducer – Long	200/110	3003846	5	96.94
		200/125	3003847	1	96.03
		200/160	3003848	1	96.03
		250/200	3070632*	1	153.05
		315/200	3014918 ^{*Δ}	1	218.27
		315/250	3003856 ^{*Δ}	1	217.36






Note: * = Segment Welded, ^Δ = Available on a made to order basis. Please contact us regarding lead times.

Wavin HDPE

Soil, waste and vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Elbows				
	Elbow 15°	110	3017993	20	21.84
		160	3043453 ^Δ	1	36.87
		200	3043454 ^Δ	1	42.44
		250	3043455 ^Δ	1	69.58
		315	3043457 ^Δ	1	99.79
	Elbow 30°	110	3003576	20	22.18
		160	3003584	5	33.91
	Elbow 45°	40	3084563	10	2.36
		50	3084565	10	2.39
		56	3003597	20	2.84
		63	3003569	20	3.61
		75	3003572	20	4.58
		90	3003574	20	6.64
		110	3003577	25	6.50
		125	3003582	10	10.65
		160	3003585	5	27.69
		200	3003588	5	76.99
		250	3018821*	1	125.87
		315	3018822*	1	173.98
	Elbow 45° Long Tail	110	3075824	6	8.00
	Elbow 88.5°	40	3084564 [†]	10	2.38
		50	3084566 [†]	10	3.19
		56	3003598	20	3.19
		63	3003570 [†]	20	3.98
		75	3003573 [†]	20	5.65
		90	3003575	20	8.05
		110	3003579 [†]	20	8.72
		125	3003583 [†]	10	13.98
		160	3003587 [†]	5	35.88
	Elbow 90° Welded	160	3003943	10	27.00
	Elbow 90° Segment Welded	200	3018818*	1	133.18
		250	3017978*	1	222.25
		315	3018819* ^Δ	1	324.35





Note: * = Segment welded, † = Swept type, Δ = Available on a made to order basis.
Please contact us regarding lead times.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Elbow 90° Extended	40	3084577	10	2.36
		50	3084567	10	2.82
		56	3003944	20	3.38
		75	3003622	25	6.02
		90	3003602	25	8.05
		110	3003603	20	8.00
	Airmix HDPE Airmix "sovent"	110	3003791	23	95.86
		160	4042219	10	327.27
	Branches Swept Branch 88.5°	110	3003792	10	13.28
	Double Branch 45°	110/110	3003728	5	21.99
	Branch 45°	40/40	3084570	40	5.81
		50/40	3084574	10	6.02
		50/50	3084572	40	5.99
		56/56	3003724	20	5.69
		63/63	3003633	20	6.28
		75/56	3003649	20	7.02
		75/75	3003641	20	6.99
		110/50	3003666	10	11.98
		110/56	3003674	10	11.60
		110/63	3003668 ^Δ	10	11.98
		110/75	3003670	10	12.09
		110/110	3003662	15	12.17
		125/63	3003679	10	15.98
		125/110	3003685	10	15.98
		125/125	3003676 ^Δ	5	16.14
		160/110	3003688	5	55.57
		160/125	3003690 ^Δ	5	55.63
		160/160	4009725	5	54.86
		200/110	3070633*	5	119.61
		200/160	3070634*	5	124.92








Note: * = Segment Welded, Δ = Available on a made to order basis. Please contact us regarding lead times.

Wavin HDPE

Soil, waste and vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Branch 45° – continued				
		200/200	3070630*	5	179.35
		250/110	3003705*	1	200.21
		250/160	3003709*	1	221.55
		250/200	3003710*	1	221.69
		250/250	3018826*	1	305.08
		315/110	3003723** ^Δ	1	353.94
		315/160	3018828** ^Δ	1	353.72
		315/200	3003718** ^Δ	1	370.43
		315/250	3003719** ^Δ	1	375.02
	Branch 88.5°				
		40/40	3084571	40	4.72
		50/40	3084575	10	6.03
		50/50	3084573	40	6.02
		56/50	3003726	20	6.02
		56/56	3003727	20	6.00
		63/50	3003638	20	6.23
		75/56	3003650	20	7.37
		75/75	3003642	20	7.41
		90/40	3003655	10	9.43
		90/50	3003657 ^Δ	10	9.39
		90/90	3003652	10	9.37
		110/40	3003665	10	11.18
		110/50	3003667	10	11.18
		110/56	3003675	10	11.56
		110/75	3003671	10	10.77
		110/110	3003663	15	10.81
		125/125	3003677 ^Δ	10	16.08
		160/110	3003689	5	60.06
		160/160	3003687	5	59.45
		200/110	3003698*	20	119.61
		200/160	3003702*	1	119.10
		200/200	3018831*	1	119.10
		250/110	3018002*	1	170.20
		250/160	3018003*	1	171.30
		250/200	3018833*	1	171.80
		250/250	3003704*	1	171.18
		315/110	3018834** ^Δ	1	200.21
		315/160	3018835** ^Δ	1	200.21
		315/200	3018836** ^Δ	1	202.11
		315/250	3018837** ^Δ	1	201.51
		315/315	3003713** ^Δ	1	242.46
	Boss Pipe				
	Boss Pipe – Four Way Extended Spigot	110/56	3075823	6	34.50









Note: * = Segment Welded, ^Δ = Available on a made to order basis. Please contact us regarding lead times.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors and Adaptors					
	Universal Connector	40	5W102G •	5	6.45
	♥	50	2W102G •	10	6.20
	Expansion Socket – with Solvent Socket Tail	50	2Z124W •	5	11.17
	Long-Tail Bend – 87.5°	50	2Z359G •	5	13.07
	Rubber Boss Adaptor	56/32	4063088	1	8.60
		56/40	4063089	1	8.72
Brackets					
	Galvanised HDPE Bracket M10 Connection	40	4012113	10	3.47
		50	4012117	10	4.79
		56	4063090	1	4.92
		63	4012121	10	5.02
		75	4012125	10	5.22
		90	4012131	10	5.60
		110	4012137	10	6.13
		125	4012141	10	6.43
		160	4012146	10	7.17
	Bracket Insert	40	4012329	50	3.18
		50	4012331	50	6.36
		56	4063093	25	6.52
		63	4012333	50	7.64
		75	4012335	50	6.52
		90	4012337	50	6.70
		110	4012339	50	5.19
		125	4012341	50	7.06
		160	4012343	50	5.84
		200	4012345	20	24.92
		250	4023375	20	29.31
		315	4023376	20	33.41
	Galvanised HDPE Bracket	40 x ½"	4012114	50	4.36
		50 x ½"	4012118	10	5.58
		56 x ½"	4063094	50	6.10
		63 x ½"	4012122	10	6.10
		75 x ½"	4012126	10	6.16
		90 x ½"	4012132	10	7.05
		110 x ½"	4012138	10	7.12
		125 x ½"	4012142	10	7.02
		160 x ½"	4012147	10	8.72
		200 x 1"	4012151	10	25.96
		250 x 1"	4012155	10	26.32
		315 x 1"	4012159	10	30.64







• 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	4.55
		G ½"	4012326	50	4.55
	Galvanised Steel Flange 1"	1"	4009793	20	5.62
	Fire Collar				
	Fire Collar EFM	40	4063766	1	16.03
		50	4063767	1	16.03
		63	4063768	1	16.03
		75/78	4063769	1	20.39
		90	4063770	1	20.39
		110	4026438	1	21.89
		125	4026439	1	22.72
		160	4063772	1	34.25
		200	4026441	1	111.77
		250	4026442	1	232.39
	Spherical Branches				
	Spherical Branch, 2 Stubs				
	Type A – 180°	110/75	3003764 ^Δ	5	40.70
		110/110	3003755	5	40.61
	Type B – 90°	110/110	3003756	5	40.27
	Type C – 135°	110/110	3003774	5	43.93
	Spherical Branch, 3 Stubs				
	Type D – 135°	110/110	3003775	5	49.55
	Type E – 90°	110/110	3003776	5	49.03
	Spherical Branch, 4 Stubs				
	Type F – 90°	110/110	3003777	5	54.42
	Access Tees				
	Access Tee 45°				
		110/110	3003739	5	34.60
		160/110	3003743	5	85.52
	Access Tee 88.5°				
		75/75	3003736	10	26.08
		110/110	3003740	10	35.88
		160/110	3070631*	5	84.81
		200/110	3017974*	1	141.06
		250/110	3017975*	1	181.26
		315/110	3017976*	1	218.93










Note: * = Segment Welded, Δ = Available on a made to order basis. Please contact us regarding lead times.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Toilet Connectors					
	Wall Mounted Toilet Connector	90/90	3003550 ^Δ	10	21.92
		110/110	3003554 ^Δ	10	21.36
	Wall Mounted Toilet Connector Elbow 90° for hanging toilets	90/90	3003619 ^Δ	10	41.14
		110/90	3018007 ^Δ	10	40.99
		110/110	3003620 ^Δ	10	40.87
	Wall Mounted Double Toilet Connector Elbow 90°	110/110	3003621 ^Δ	5	82.60
Electro-fusion Coupler – Universal Type (WAVIDUO)					
		40	3003478	20	5.45
		50	3003479	20	5.58
		56	3003489	20	5.59
		63	3003480	20	5.76
		75	3003481	20	8.02
		90	3003482	20	7.81
		110	3003483	20	8.21
		125	3003484	10	14.52
		160	3003485	24	18.79
		200	4061068	6	139.30
		250	4064881	2	233.11
		315	4064882	2	265.27
Sockets, Caps and Flange Adaptors					
	Push-fit Socket with Gasket and Cap	40/40	3084561	10	4.00
		50/50	3084562	10	4.78
		56/56	3003493	20	5.33
		75/75	3003495	20	7.58
		110/110	3003497	20	9.62
		160/160	3003499	18	30.22
	Expansion Socket with Gasket and Cap	40/40	3003505	20	10.55
		50/50	3003506	20	10.42
		56/56	3018008	15	9.97
		63/63	3003507	20	12.47
		75/75	3003508	20	13.25
		90/90	3003509	10	13.59
		110/110	3003510	20	13.94
		125/125	3003511	10	21.18
		160/160	3003512	5	38.45
		200/200	3003513*	15	178.20
		250/250	3070629	1	261.82
		315/315	3003515	1	451.58












Note: * = Segment Welded, ^Δ = Available on a made to order basis. Please contact us regarding lead times.

Wavin HDPE

Soil, waste and vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Complete Closing Cap	40	3003869	10	7.08
		50	3003870	10	7.19
		75	3003864	10	16.81
		110	3003873	10	22.87
	Weld Cap	40	3003860	20	2.97
		50	3003861	20	2.53
		63	3003862 ^Δ	20	2.53
		75	3003863	20	2.54
		90	3003865 ^Δ	20	3.21
		110	3003866	20	6.02
		125	3003867 ^Δ	10	7.52
		160	3003868	10	24.32
	Protection Cap for pipes and fitting	90	3018708 ^Δ	50	0.77
		110	3018709	40	0.86
	Flange Adaptor	75	4025989 ^Δ	5	24.93
		110	4009748 ^Δ	5	27.72
		160	4009750	5	47.20
		200	4009751	5	90.71
		250	4025992	1	156.18
		315	3018031 ^Δ	1	266.30
	Brass Nut Connection	63	4009761	10	8.15
	Internal Thread Joint	50	3003925 ^Δ	20	48.75
	Shrink-on Socket with Seal	50	3003516 ^Δ	5	28.92
Accessories					
	Electrofus Welding Tool DUO 315 230v	—	4036330	1	POA
	Electrofus Welding Tool 110v	—	4064999	1	5155.92

Note: Δ = Available on a made to order basis. Please contact us regarding lead times.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Electrofusion Welding Tool Cable 40-160 Spare, for use with 4064999	—	4065001	1	255.47
	Electrofusion Welding Tool Cable 200-315 Spare, for use with 4064999	—	4065000	1	255.47
	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 Class X1, TP300	160 250	4011403 4011404	1 1	629.58 1040.72
	Heat Reflector Butt-Welding Tool Maxi 315, 90-315mm	90-315	4011402	1	POA
	PE Pipe Cutter	40-63 50-125 110-160 200-315	4026014 ^Δ 4011390 4011393 4011396	1 1 1 1	284.36 468.46 479.03 2272.69
	HDPE Rotary Peelers for pipe 50mm for pipe 63mm for pipe 75mm for pipe 90mm for pipe 110mm for pipe 125mm for pipe 160mm Replacement blade	50 63 75 90 110 125 160 —	4042914 4024493 4024569 4024432 4024189 4024393 4024190 4066330	1 1 1 1 1 1 1 1	1494.50 1494.50 1788.06 1788.06 1788.06 1788.06 2081.63 154.79
	Other Processing Aids PE marker pen China Marker	—	4011453	12	13.90
	PE pipe scraper	—	4020757	10	48.75
	PE cleaner 0.7 litre bottle	—	4025509	12	28.57

Note: ^Δ = Available on a made to order basis. Please contact us regarding lead times.

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 3m	16	3072958	25	9.15
	16mm x 2.0mm x 5m	16	3061211	25	15.67
	20mm x 2.25mm x 3m	20	3072989	18	13.13
	20mm x 2.25mm x 5m	20	3061212	18	22.55
	25mm x 2.5mm x 3m	25	3072990	10	19.97
	25mm x 2.5mm x 5m	25	3061213	10	34.21
	32mm x 3.0mm x 3m	32	3070827	6	25.00
	32mm x 3.0mm x 5m	32	3041228	6	42.89
	40mm x 4.0mm x 5m	40	3004371	4	69.17
	50mm x 4.5mm x 5m	50	3004372	5	135.44
	63mm x 6.0mm x 5m	63	3028271	3	220.95
	75mm x 7.5mm x 5m	75	3053971	1	287.44
	Pipe – Coils				
	16mm x 2.0mm x 100m	16	3018297	1	246.96
	16mm x 2.0mm x 200m	16	3018302	1	493.91
	16mm x 2.0mm x 500m	16	3061202	1	1172.21
	20mm x 2.25mm x 100m	20	3018299	1	349.18
	25mm x 2.5mm x 50m	25	3018300	1	283.20
	32mm x 3.0mm x 50m	32	3004370	1	388.22
	Pipe – Coils 9mm Pre-insulated				
	16mm x 2.0mm x 50m RED	16	3004378	1	264.09
	20mm x 2.25mm x 50m RED	20	3004379	1	351.84
	25mm x 2.5mm x 25m RED	25	3070526	1	245.53
	16mm x 2.0mm x 50m BLUE	16	3071220	1	264.09
	20mm x 2.25mm x 50m BLUE	20	3071221	1	351.84
	25mm x 2.5mm x 25m BLUE	25	3071222	1	245.53
	Pipe – Coils 13mm Pre-insulated				
	16mm x 2.0mm x 50m + 13mm RED	16	3004380	1	311.12
	20mm x 2.25mm x 50m + 13mm RED	20	3004381	1	388.00
	25mm x 2.5mm x 25m RED	25	3070529	1	288.23
	16mm x 2.0mm x 50m BLUE	16	3071224	1	311.12
	20mm x 2.25mm x 50m BLUE	20	3071225	1	388.00
	25mm x 2.5mm x 25m BLUE	25	3071226	1	288.23
	Couplers				
	Straight Coupler				
		16	3023348	10	3.23
		20	3023359	10	4.22
		25	3023360	10	6.34
		32	3023488	5	11.03
		40	3024665	3	17.55
		50	3027832	2	25.98
		63	3027847	2	68.52
		75	3065639	2	87.10

Tigris K1






Press-fit plumbing system

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece	
	Reducing Coupler					
	20 x 16mm	20	3023525	10	4.49	
	25 x 16mm	25	3023526	10	5.82	
	25 x 20mm	25	3023527	10	6.36	
	32 x 20mm	32	3023528	5	10.76	
	32 x 25mm	32	3023522	5	10.53	
	40 x 32mm	40	3023529	3	16.9	
	50 x 32mm	50	3027833	2	26.36	
	50 x 40mm	50	3027834	2	29.04	
	63 x 40mm	63	3027852	2	66.28	
	63 x 50mm	63	3027850	2	69.62	
	75 x 50mm	75	3065641	2	80.04	
	75 x 63mm	75	3065640	2	82.33	
	Elbows					
	Elbow 45°					
		25	3023498	10	8.60	
		32	3023499	5	12.49	
		40	3027839	3	23.93	
		50	3024668	2	37.59	
		63	3027849	2	85.15	
		75	3065642	2	92.77	
		Elbow 90°				
			16	3023363	10	4.04
			20	3023364	10	5.08
			25	3023365	10	7.21
			32	3023500	5	11.23
		40	3024666	3	21.99	
		50	3024667	2	34.35	
		63	3027848	2	77.43	
	75	3065643	2	94.40		
	Elbow 90° – single male BSP thread					
	16mm x ½"	16	3023542	10	5.11	
	20mm x ½"	20	3023543	10	6.22	
	20mm x ¾"	20	3023544	10	8.99	
	25mm x ¾"	25	3023545	10	10.01	
	32mm x 1"	32	3023539	5	17.86	
	Elbow 90° – single female BSP thread					
	16mm x ½"	16	3023546	10	7.78	
	20mm x ½"	20	3023547	10	9.87	
	20mm x ¾"	20	3023548	10	12.03	
	25mm x ¾"	25	3023549	10	13.45	
	32mm x 1"	32	3023540	5	20.44	
	Backplate Elbow – female BSP thread					
	16mm x ½"	16	3023344	10	10.60	
	20mm x ½"	20	3023555	10	13.01	
	20mm x ¾"	20	3023537	10	13.45	

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tees				
	Equal Tee	16	3023345	10	5.48
		20	3023346	10	7.86
		25	3023347	5	11.28
		32	3023521	5	19.22
		40	3024664	2	31.46
		50	3027829	2	49.16
		63	3027853	2	92.78
		75	3065644	2	130.49
	One End Reduced Tee 20x20x16mm	20	3023505	10	7.19
	Double End Reduced Tee				
	16x20x16mm	20	3023504	10	7.19
	20x25x20mm	25	3023510	5	9.82
	25x32x25mm	32	3023515	5	15.84
	Branch Reduced Tee				
	20x16x20mm	20	3023506	10	7.19
	25x16x25mm	25	3023508	5	9.95
	25x20x25mm	25	3023511	5	10.84
	32x16x32mm	32	3023513	5	15.08
	32x20x32mm	32	3023514	5	16.11
	32x25x32mm	32	3023516	5	17.45
	40x25x40mm	40	3023518	3	24.57
	40x32x40mm	40	3023519	3	27.14
	50x25x50mm	50	3027830	2	35.89
	50x32x50mm	50	3027842	2	37.69
	50x40x50mm	50	3027831	2	40.44
	63x25x50mm	63	3027856	2	63.08
	63x32x63mm	63	3027855	2	70.04
	63x40x63mm	63	3027854	2	83.24
	75x32x75mm	75	3065647	2	88.90
	75x40x75mm	75	3065646	2	100.37
	75x50x75mm	75	3065645	2	104.19
	Branch and One End Reduced Tee				
	20x16x16mm	20	3023507	10	7.19
	25x16x16mm	25	3023509	5	9.28
	25x20x20mm	25	3023512	5	9.98
	32x25x25mm	32	3023517	5	15.90
	40x32x32mm	40	3023520	3	24.16
	One Sided Female Thread Tee				
	16mm x 1/2"	16	3023557	10	13.24
	20mm x 1/2"	20	3023558	10	14.77
	20mm x 3/4"	20	3023559	10	15.35
	25mm x 3/4"	25	3023560	5	19.08




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 1/2"	16	3023495	10	4.06
	20mm x 1/2"	20	3023496	10	5.16
	20mm x 3/4"	20	3023550	10	5.72
	25mm x 3/4"	25	3023551	10	6.53
	25mm x 1"	25	3023552	10	8.49
	32mm x 1"	32	3023541	5	12.45
	32mm x 1 1/4"	32	3023553	5	18.70
	40mm x 1 1/4"	40	3027836	3	20.52
	50mm x 1 1/2"	50	3027837	2	30.17
	Connector – single female BSP thread				
	16mm x 1/2"	16	3023494	10	5.49
	20mm x 1/2"	20	3023361	10	6.24
	20mm x 3/4"	20	3023497	10	8.08
	25mm x 3/4"	25	3023362	10	10.68
	32mm x 1"	32	3023554	5	18.04
	40mm x 1 1/4"	40	3027838	3	26.62
	Tap Connector – female BSP thread				
	16mm x 3/4"	16	3023489	10	6.52
	20mm x 3/4"	20	3023490	10	7.24
	25mm x 1"	25	3023491	5	15.49
	32mm x 1 1/4"	32	3023492	5	22.52
	40mm x 1 1/2"	40	3023493	3	29.98
	End Cap				
		16	3023561	10	4.69
		20	3023562	10	5.20
		25	3023563	5	5.95
	Adaptor Fitting to Hep ₂ O				
	16 x 15mm	16	3052945	10	6.43
	20 x 22mm	20	3052946	10	11.50
	25 x 22mm	25	3052947	10	13.37
	25 x 28mm	25	3052948	10	17.60
	32 x 28mm	32	3052949	10	19.09

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 ¾"	16	4032676	10	6.52
	63mm x 2"	63	4032685	2	69.54
	75mm x 2½"	75	4049178	2	88.21
	Connector – single female BSP thread				
	50mm x 1½"	50	4032698	3	46.64
	63mm x 2"	63	4032699	2	73.42
	75mm x 2½"	75	4049179	2	119.45
	Tap Connector – female BSP thread				
	16mm x ½"	16	4032700	10	6.52
	Elbow 90° – Radiator Connector	16	4037512	10	21.16
	Equal tee – Radiator Connector	16	4037506	10	33.72
		20	4037508	10	33.97
Accessories					
	Transition Fitting to Copper				
	16 x 15mm	16	4032721	5	8.42
	20 x 15mm	20	4032722	5	9.08
	20 x 22mm	20	4037451	5	11.55
	25 x 22mm	25	4032723	5	16.86
	25 x 28mm	25	4032724	5	18.83
	Compression Adaptor				
	16 x 15mm	16	4013355	2	4.68
	Pressure Stopper	16	4013571	1	24.55
		20	4013572	1	24.55
		25	4013573	1	24.55

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					
	Internal Bending Spring	16	4013553	1	29.35
		20	4013559	1	37.76
		25	4013562	1	40.43
	External Bending Spring	16	4023071	1	23.02
		20	4023073	1	25.15
		25	4023075	1	33.05
	Pipe Bending Pliers				
	Pipe Bending Tool	16	4043224	1	172.72
		20	4043225	1	184.81
	Pipe Bending Pliers 16/20/25mm	—	4023077	1	374.44
	Pipe Straightener 16/20/25mm	—	4013530	1	569.75
	Pipe Cutter 16mm-75mm	—	4053508	1	79.60
	Replacement Blade for 4053508	—	4053545	1	10.41
	Pipe Cutter with hold function 16/20/25mm	—	4036273	1	78.18
	Replacement Blade for 4036273	—	4037386	1	15.29
	Hand Press Tool 16-20mm	—	4013538	1	199.00
	Hand Tool Insert	16	4013542	1	68.09
		20	4013543	1	68.09
	Cordless Pressing Tool 16mm-40mm	—	4048906	1	1106.75
	Cordless Pressing Tool 16mm-75mm	—	4048907	1	1881.47

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Battery for 4048906 (AC0102 mini tool)	—	4046770	1	127.05
	Battery for 4048907 (AC0202 standard tool)	—	4046768	1	251.92
	Pressing Jaws — for use with 4048906	16	4046556	1	117.31
		20	4046557	1	117.31
		25	4046558	1	123.98
		32	4046559	1	123.98
		40	4046560	1	181.29
	Pressing Jaws — for use with 4048907	16	4046691	1	129.72
		20	4046694	1	129.72
		25	4046695	1	137.02
		32	4046756	1	137.02
		40	4046758	1	189.81
		50	4046759	1	206.34
		63	4035779	1	307.71
	Pressing Jaws — for use with 4048907 and 4053510	75	4053509	1	365.06
	Pressing Adaptor for 75mm Jaw — for use with 4048907 and 4053509	75	4053510	1	405.74
	Calibration Mandrel	16	4999998	1	66.91
		20	4999999	1	67.80
		25	4023364	1	71.28
		32	4023365	1	76.48
	Calibration Mandrel	40	4031987	1	131.21
		50	4031988	1	128.06
		63	4035780	1	189.68
		75	4053507	1	201.61
	Calibration Mandrel 16/20/25mm	—	3021196	1	81.30
	Handgrip Calibration Mandrel	—	3011162	1	37.82
		—	4036272	1	37.82
	Handgrip Calibration Mandrel	—	4036272	1	37.82
	Calibration Set 16mm-32mm	—	4013541	1	315.55

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	52.62
	50m ♥	10	HXX50/10W	1	103.65
	100m ♥	10	HXX100/10W	1	204.19
	10m ♥	15	HXX10/15W	1	24.78
	25m ♥	15	HXX25/15W	1	61.90
	50m ♥	15	HXX50/15W	1	122.51
	80m ♥	15	HXX80/15W	1	196.00
	100m ♥	15	HXX100/15W	1	241.22
	120m ♥	15	HXX120/15W	1	289.47
	10m ♥	22	HXX10/22W	1	48.34
	25m ♥	22	HXX25/22W	1	120.83
	50m ♥	22	HXX50/22W	1	239.25
	10m ♥	28	HXX10/28W	1	65.16
	25m ♥	28	HXX25/28W	1	162.92
	50m ♥	28	HXX50/28W	1	324.30
	Straight Lengths – Barrier				
	3m ♥	15	HXX03/15W	10	7.75
	3m ♥	22	HXX03/22W	10	15.18
	3m ♥	28	HXX03/28W	10	20.81
	6m ♥	15	HXX06/15W	40	16.00
	6m ♥	22	HXX06/22W	20	31.40
	6m ♥	28	HXX06/28W	12	42.83
	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	215.27
	50m ♥	10	HXXC5010 RD	1	215.27
	50m ♥	15	HXXC5015 BU	1	247.53
	50m ♥	15	HXXC5015 RD	1	247.53
	50m ♥	22	HXXC5022 BU	1	380.76
	50m ♥	22	HXXC5022 RD	1	380.76
	25m ♥	28	HXXC2528 BU	1	313.47
	25m ♥	28	HXXC2528 RD	1	313.47

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	3.96
	♥	15	HD1/15W	10	2.36
	♥	22	HD1/22W	10	3.33
	♥	28	HD1/28W	5	9.59
	Elbow 90°				
	♥	10	HD5/10W	10	4.48
	♥	15	HD5/15W	10	2.88
	♥	22	HD5/22W	10	4.23
	♥	28	HD5/28W	5	11.48
	Equal Tee				
	♥	10	HD10/10W	10	5.54
	♥	15	HD10/15W	10	4.05
	♥	22	HD10/22W	10	5.54
	♥	28	HD10/28W	5	15.85
	Demountable Stop-End				
	♥	10	HD62/10W	10	3.51
	♥	15	HD62/15W	10	3.14
	♥	22	HD62/22W	10	3.96
	♥	28	HD62/28W	5	6.59
	SmartSleeve Pipe Support				
		10	HX60/10W	20	0.51
		15	HX60/15W	50	0.52
		22	HX60/22W	50	0.67
		28	HX60/28W	20	1.00
	Spigot Elbow 90°				
	Single Socket				
	♥	10	HD4/10W	5	4.48
	♥	15	HD4/15W	5	3.04
	♥	15x10	HD4A/15W	5	4.48
	Socket Reducer				
	15 x 10mm ♥	15	HD2/15W	10	4.10
	22 x 15mm ♥	22	HD2/22W	10	3.18
	28 x 22mm ♥	28	HD2/28W	5	7.69
	Socket/Socket Reducer				
	15 x 10mm ♥	15	HD3B/15W	10	7.46
	22 x 15mm ♥	22	HD3B/22W	10	6.50
	22 x 10mm ♥	22	HD3C/22W	10	7.46
	Obtuse Bend 135° Single Socket				
	♥	10	HD8/10W	5	4.84
	♥	15	HD8/15W	5	3.36
	♥	22	HD8/22W	5	4.84
	End Reduced Tee				
	22 x 15 x 22mm ♥	22	HD12/22W	5	5.86
	28 x 22 x 28mm ♥	28	HD12/28W	5	15.85






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	5.86
	10 x 10 x 22mm ♡	22	HD18A/22W	5	6.19
	15 x 15 x 22mm ♡	22	HD18/22W	5	5.86
	22 x 22 x 28mm ♡	28	HD18/28W	5	15.85
	Branch Reduced Tee				
	15 x 15 x 10mm ♡	15	HD13/15W	5	5.86
	22 x 22 x 10mm ♡	22	HD13A/22W	5	5.86
	22 x 22 x 15mm ♡	22	HD13/22W	5	5.86
	28 x 28 x 15mm ♡	28	HD13A/28W	5	15.85
	28 x 28 x 22mm ♡	28	HD13/28W	5	15.85
	Branch Reduced Tee – Spigot				
	15 x 15 x 10mm ♡	15	HD15/15W	5	5.86
	22 x 22 x 15mm ♡	22	HD15/22W	5	5.86
	Branch and One End Reduced Tee				
	15 x 10 x 10mm ♡	15	HD14/15W	5	5.86
	22 x 10 x 10mm ♡	22	HD14A/22W	5	5.86
	22 x 15 x 15mm ♡	22	HD14/22W	5	5.86
	28 x 22 x 22mm ♡	28	HD14/28W	5	15.85
	Blanking Peg				
	For demountable Hep2O fittings ♡	10	HX44/10W	10	1.24
	♡	15	HX44/15W	10	1.45
	♡	22	HX44/22W	10	1.45
	♡	28	HX44/28W	10	1.74
	Tank Connector				
	with BSP tail & backnut (For cold water use only)				
	BSP 1/2"	15	HX20/15W	5	3.42
	BSP 3/4"	22	HX20/22W	5	4.30
	BSP 1" (brass body)	28	HX20/28W	5	19.28
	Straight Tap Connector				
	with brass nut and alternative rubber washer				
	BSP 1/2" ♡ *	15	HD25A/15W	10	4.12
	BSP 3/4" ♡ *	15	HD25B/15W	5	4.87
	BSP 3/4" ♡ *	22	HD25B/22W	5	5.27
	Bent Tap Connector				
	with brass nut and alternative rubber washer				
	BSP 1/2" ♡ *	15	HD27/15W	5	4.55
	Hand-Titan™ Tap Connector				
	with rubber washer				
	BSP 1/2" ♡ *	10	HD26A/10W	5	4.18
	BSP 1/2" ♡ *	15	HD26A/15W	5	3.48
	BSP 3/4" ♡ *	15	HD26B/15W	5	4.18
	BSP 3/4" ♡ *	22	HD26B/22W	5	4.52





* 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	6.81
	300mm BSP 1/2" *	15	HD125A/15W	2	Braided	7.19
	300mm BSP 3/4" *	15	HD125B/15W	2	Braided	8.51
	300mm BSP 3/4" (full bore) *	22	HD125C/22W	2	Braided	14.65
	300mm BSP 3/4" *	22	HD125B/22W	2	Braided	8.51
	500mm BSP 1/2" *	15	HD225A/15W	2	Braided	9.85
	500mm BSP 3/4" *	15	HD225B/15W	2	Braided	11.13
	500mm BSP 3/4" (full bore) *	22	HD225C/22W	2	Braided	17.10
	500mm BSP 3/4" *	22	HD225B/22W	2	Braided	11.84
	1000mm BSP 1/2" *	15	HD325A/15W	1	Braided	17.89
	1000mm BSP 3/4" *	22	HD325B/22W	1	Braided	21.83
	Hep₂O x BSP Nut with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HDW125A/15W	2	White	6.81
	300mm BSP 3/4" *	15	HDW125B/15W	2	White	8.51
	300mm BSP 3/4" *	22	HDW125B/22W	2	White	8.51
	500mm BSP 1/2" *	15	HDW225A/15W	2	White	9.85
	500mm BSP 3/4" *	15	HDW225B/15W	2	White	11.13
	500mm BSP 3/4" *	22	HDW225B/22W	2	White	11.84
	Hep₂O x Hep₂O					
	300mm 15mm x 15mm *	15	HD125H/15W	2	Braided	8.44
	300mm 22mm x 22mm *	22	HD125H/22W	2	Braided	10.34
	500mm 15mm x 15mm *	15	HD225H/15W	2	Braided	12.38
	500mm 22mm x 22mm *	22	HD225H/22W	2	Braided	14.29
	Hep₂O x Hep₂O					
	300mm 15mm x 15mm *	15	HDW125H/15W	2	White	8.44
	300mm 22mm x 22mm *	22	HDW125H/22W	2	White	10.34
	Hep₂O x Elbow BSP Nut with brass nut and rubber washer					
	300mm Elbow BSP 1/2" *	15	HD125D/15W	2	Braided	9.13
	300mm Elbow BSP 1/2" *	15	HDW125D/15W	2	White	9.13

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












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	19.55
	300mm BSP 3/4" *	22	HD125E/22W	2	Braided	36.73
	500mm BSP 1/2" *	15	HD225E/15W	2	Braided	21.39
	500mm BSP 3/4" *	15	HD225I/15W	2	Braided	23.54
	500mm BSP 3/4" *	22	HD225E/22W	2	Braided	40.06
	Hep₂O Brass Service Valve x BSP Nut					
	with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HDW125E/15W	2	White	19.55
	300mm BSP 3/4" *	22	HDW125E/22W	2	White	36.73
	Hep₂O Brass Service Valve (Handle) x BSP Nut					
	with brass nut and rubber washer					
	300mm BSP 1/2" *	15	HD125EH/15W	2	Braided	19.55
	300mm BSP 3/4" *	22	HD125EH/22W	2	Braided	36.73
	Hep₂O x Monobloc Mixers					
	300mm 15mm x M10 *	15	HD125F/15W •	Pair	Braided	12.87
	300mm 15mm x M12 *	15	HD125G/15W •	Pair	Braided	12.87

• 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	6.77
	BSP 1/2" ♡	15	HX29/15W	10	6.59
	BSP 3/4" ♡	22	HX29/22W	10	9.47
	BSP 1" ♡	28	HX29/28W	5	17.99
	Adaptor Female BSP/Hep ₂ O socket DZR Brass				
	BSP 1/2" ♡	10	HX28/10W	10	6.77
	BSP 1/2" ♡	15	HX28/15W	10	6.59
	BSP 3/4" ♡	15	HX24/15W	10	9.47
	BSP 3/4" ♡	22	HX28/22W	10	9.47
	BSP 1" ♡	28	HX28/28W	5	18.61
	Adaptor Male BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX31/15W	10	3.67
	BSP 3/4" ♡	22	HX31/22W	10	6.05
	BSP 1" ♡	28	HX31/28W	5	8.88
	Adaptor Female BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX30/15W	10	3.59
	BSP 3/4" ♡	22	HX30/22W	10	6.05
	BSP 1" ♡	28	HX30/28W	5	8.88
	Draincock Brass 15mm spigot DZR Brass ♡	15	HX32/15 GY	10	6.59
	Adaptor Converts 1/2" tap connector to 3/4" DZR Brass BSP 1/2"x 3/4" ♡		HX39 GR	10	3.41
	Wall Plate Elbow Hep ₂ O				
	BSP 1/2" ♡	15	HX6/15W	5	10.17
	BSP 3/4" ♡	22	HX6/22W	5	11.05
	Ball Valve Plated Brass (for hot and cold water use)				
	15x15mm	15	HX22/15W	5	13.02
	22x22mm	22	HX22/22W	5	16.99
	Gate Valve – Hot/Cold DZR Brass – Hep ₂ O ends				
		15	HX35/15W	5	10.31
		22	HX35/22W	5	14.69
	Stopcock – Cold Water fitted with Hep ₂ O ends				
		15	HX36/15W	5	10.37
		22	HX36/22W	5	12.40





	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopcock – Cold Water Hep20 to MDPE Conversion 22mm to 25mm MDPE	22	HX43/22W	5	22.02
	Shut-off Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX37/15W	5	7.33
	Appliance Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX38/15W	5	6.77
	Straight Service Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX18/15W	5	7.79
	Angled Service Valve With hot/cold indicator insert. NB: *SEE USAGE NOTE	15	HX19/15W	5	7.80
	Double-Check Valve Plastics NB: *SEE USAGE NOTE	15	HX72/15W	1	17.43
	Two Port Manifold 22x15mm ports Closed Spigot ♡	22	HX88/22W	5	7.91
	Two Port Manifold 22x15mm ports All socket ♡	22	HX88B/22W	5	8.17
	Three Port Manifold 22x15mm ports Closed spigot ♡	22	HX89/22W	5	10.62
	Three Port Manifold 22x15mm ports All socket ♡	22	HX89B/22W	5	11.01
	Two Port Manifold 22x10mm ports All socket ♡	22	HX92B/22W	5	8.65

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

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	11.01
	Two Port Manifold 22x10mm ports Socket and closed spigot ♡	22	HX92/22W	5	7.91
	Four Port Manifold 22x10mm ports Socket and closed spigot ♡	22	HX94/22W	5	10.62
	Four Port Manifold 22x10mm ports Socket and closed spigot, on one side ♡	22	HX96/22W	5	12.14
	Four Port Manifold 22x10mm ports All socket, on one side ♡	22	HX96B/22W	5	12.14
	One Port Valved Manifold Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡	22	HX91T/22W	1	22.11
	Two Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡	15	HX92T/15W	1	37.14
	Three Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡	15	HX93T/15W	1	54.46
	Four Port Valved Manifold Plated Brass 3/4" BSP male/female. 15mm Hep ₂ O ports ♡	15	HX94T/15W	1	74.35
	Manifold End Caps 3/4" BSP Female End Cap 3/4" BSP Male End Cap		HX97 GY HX98 GY	5 5	3.23 3.75
	Manifold Bracket – Pair for HX92T/15, HX93T/15 and HX94T/15		HX95A GR	1	21.29

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Radiator Outlet Back Box Plastic (for stud wall)		HX109 GY	5	3.42
	Radiator Outlet Back Box Metal (for solid wall)		HX110 GY	5	2.87
	Radiator Outlet Cover with Flap For use with HX109 and HX110		HX113 WH	5	7.52
	Back Box Grommet For use with HX110		HX112 GY	50	0.19

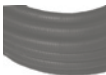




Hep₂O Flexible Plumbing

Tools, fixings and accessories

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	HepKey Plus Demounting Tool	10	HX79/10W	10	0.36
		15	HX79/15W	10	0.42
		22	HX79/22W	10	0.42
		28	HX79/28W	10	0.46
	HepKey Demounting Tool	10	HX78/10W	10	0.31
		15	HX78/15W	10	0.36
		22	HX78/22W	10	0.36
		28	HX78/28W	10	0.41
	HepTool Demounting Tool				
	10/28mm 15/22mm	10 15	HX77/10W HX77/15W	10 10	2.17 1.78
	Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	2.33
		16	HX75/16 GR	5	2.33
		22	HX75/22 GR	5	3.26
	Pipe Cutter – Scissor Type Standard		HD74 GR	1	18.31
	Pro Cutter		HD75 GR	1	45.12
	Pipe Cutter – Ratchet Type up to 42mm pipe up to 28mm pipe		HD77 GR HD78 GR	1 1	66.52 46.17
	Hep₂O Joint Test Kit Hep ₂ O Joint Test Kit		HX81 GR	1	529.12
	Pipe Clips – Screw	15	HX85/15W	50	0.34
		22	HX85/22W	50	0.34
		28	HX85/28W	50	0.56
	Pipe Clip – Spacers	15	HX86/15W	20	0.26
		22	HX86/22W	20	0.34
	Pipe Clip Cable Type	10	HX65/10W	50	0.21
		15	HX65/15W	50	0.34
		22	HX65/22W	50	0.34
		28	HX65/28W	50	0.42


Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep₂O Silicone Lubricant Spray 400ml aerosol can Hep ₂ O fittings		HX200	1	12.58
	Flat Tap Connector Washers – Rubber	15	HX58/15 GY	20	p/pack 4.83
		22	HX58/22 GY	20	p/pack 4.83
	Conical Tap Connector Washers – Rubber	15	HX57/15 GR	20	p/pack 4.83
		22	HX57/22 GR	20	p/pack 4.83

Conduit system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Conduit Pipe				
	25.0m	15	HXC25/15 BL	1	38.48
	50.0m	15	HXC50/15 BL	1	77.01
	25.0m	22	HXC25/22 BL	1	48.13
	Conduit Junction Box		HX100 BL	1	6.38
	Conduit Junction Box Lid		HX104 BL	1	2.14
	Conduit Terminal	15	HX101/15W	2	8.89
	Terminal Back Plate		HX103 BL	1	1.78



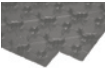


Hep₂O Underfloor Heating

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	52.62
50m ♡	10	HXX50/10W	1	103.65
100m ♡	10	HXX100/10W	1	204.19
10m ♡	15	HXX10/15W	1	24.78
25m ♡	15	HXX25/15W	1	61.90
50m ♡	15	HXX50/15W	1	122.51
80m ♡	15	HXX80/15W	1	196.00
100m ♡	15	HXX100/15W	1	241.22
120m ♡	15	HXX120/15W	1	289.47


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	0.10
 Staple Gun (40/60mm)	15	15UH237	1	430.77
 System Plate System System Plate (1275 x 975mm)	15	15UH232	18	13.34
 System Plate Tack Fastener		15UH238	25	0.38
 System Ancillaries Edge Expansion Foam (25.0m x 150mm)		15UH234	1	33.36

Hep₂O Underfloor Heating

UFH – Room packs

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	UFH Room Packs				
	12m ²	15	15UKPK1	1	912.71
	18m ²	15	15UKPK2	1	939.40
	24m ²	15	15UKPK3	1	971.43

Underfloor heating room packs

Contents:



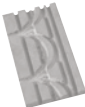

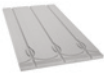


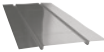

- ⌚ 15mm UFH Pipe Coil
- ⌚ 300 Pipe Staples
- ⌚ 25m Roll of Edge Expansion Foam
- ⌚ Programmable Thermostat
- ⌚ 2 x Isolation Valves
- ⌚ Flow Watch Thermostat
- ⌚ Control Pack
- ⌚ Single Circuit Fittings Pack

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	42.06
	Low-Build Max – Straight Panel 15x600x1200mm	10	10UH602	10	46.21
	15x600x1200mm	10	10UH603	30	44.15
	Low-Build Max – Return Panel 15x300x138mm	10	10UH604	10	15.50
	Low-Build Max – Channel Panel 15x600x150mm	10	10UH600	10	19.27
	Floating Floor Panel – 25mm 600x1200mm	15	15UH608	10	27.65
	Joist Panel – 50mm 340x1200mm	15	15UH610	10	25.89
	L Bracket – Inter Joist Panel		15UH612	1	2.99
Diffuser Plates					
	Double Diffuser Plate – 15mm 1000x390mm	15	15UH605	10	12.70
	Single Diffuser Plate – 15mm 1000x140mm	15	15UH606	10	5.44

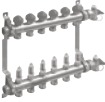










Hep₂O Underfloor Heating













UFH – Manifolds and Control systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Manifolds					
	Composite Manifold – Control Pack A Rated		15UH512	1	389.85
	Composite Manifold – Starter Pack		15UH510	1	114.80
	Composite Manifold – One Port Pack	15	15UH511	1	44.73
	Composite Manifold – Three Port Pack	15	15UH513	1	117.80
	Composite Manifold – Euroconus Adaptor 10x1.7 (pair)	10	10UH529	1	10.21
	Composite Manifold – Euroconus Adaptor 15x1.8 (pair)	15	15UH529	1	10.21
	Composite Manifold – Euroconus Adaptor 16x1.8 (pair)	16	16UH529	1	10.21
	Composite Manifold 22mm Isolation Valves (pair)	22	15UH211	2	p/pack 35.76
	1"x15mm Female Brass Adaptor	15	15UH607	5	18.61
	Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	2.33
	Pipe Clips – Screw	15	HX85/15W	50	0.34
	Ball Valves Stainless 1" (pair)	15	15UH550	1	65.45
	Thermometer for Ball valves (pair)	15	15UH565	1	6.83

Hep₂O Underfloor Heating

UFH – Manifolds and Control systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stainless Manifold				
	2 port	15	15UH552	1	190.71
	3 port	15	15UH553	1	228.31
	4 port	15	15UH554	1	266.84
	5 port	15	15UH555	1	316.19
	6 port	15	15UH556	1	347.40
	7 port	15	15UH557	1	384.62
	8 port	15	15UH558	1	453.00
	9 port	15	15UH559	1	498.78
	10 port	15	15UH560	1	543.80
	11 port	15	15UH561	1	599.56
	12 port	15	15UH562	1	631.96
	Single Way kit flow-ret Manifold Stainless	15	15UH551	1	128.84
	Actuator adaptor VA50 When using Wavin Actuators 15UH302 or 15UH402 with any of the above Stainless Manifolds, a single adaptor 15UH569 is required for each port / actuator.		15UH569	1	2.00
	Coupling 1" Female – Female Stainless	15	15UH567	1	43.99
	Auto Airvent with non-return Stainless	15	15UH568	1	7.37
	Thermometer with Spring		15UH566	1	6.45
Digital Controls					
	Single Zone Kit (c/w Programmable Thermostat)		15UH310	1	177.95
	16 Zone Control Centre (24v)		15UH316	1	194.98
	24V Actuator (for use with 15UH316)		15UH302	1	29.30
	Flow Watch Sensor (for use with 15UH316)		15UH334	1	17.89
	Wired Thermostat		15UH372	1	52.67

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Wired Programmable Thermostat		15UH373	1	54.28
	Wireless Thermostat		15UH382	1	82.27
	Wireless Programmable Thermostat		15UH383	1	90.26
	Remote Sensor Probe		15UH395	1	17.13
Mains Controls					
	8 Zone Control Centre (230v)		15UH408	1	134.75
	230V Actuator (for use with 15UH408)		15UH402	1	28.72
	Flow Watch Thermostat (for use with 15UH408)		15UH524	1	34.16
	neoStat (white)		15UH475	1	127.01
	neoStat (black)		15UH476	1	127.01
	Remote Sensor Probe		15UH495	1	17.11
	Remote Sensor Probe Cover		15UH494	1	9.00
	neoHub		15UH492	1	239.31

Numerical index

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
OT002B	84.60	5	OT033W	8.57	6	OT116N	1.94	8
OT003B	15.00	5	OT034B	5.97	6	OT116W	1.94	8
OT003G	15.00	5	OT034G	5.97	6	OT143B	19.90	7
OT003N	15.00	5	OT034N	5.97	6	OT147G	22.71	21
OT003W	15.00	5	OT034W	5.97	6	OT147G	22.71	19
OT004B	19.61	5	OT035B	29.76	8	OT147G	22.71	17
OT004G	19.61	5	OT035G	29.76	8	OT147G	22.71	15
OT004N	19.61	5	OT035N	29.76	8	OT147G	22.71	10
OT004W	19.61	5	OT035W	29.76	8	OT147G	22.71	6
OT005B	7.77	4	OT037B	9.90	8	OT148G	20.97	6
OT005G	7.77	4	OT037G	9.90	8	OT148G	20.97	10
OT005N	7.77	4	OT037N	9.90	8	OT148G	20.97	15
OT005W	7.77	4	OT037W	9.90	8	OT148G	20.97	17
OT007B	19.49	4	OT038B	7.00	7	OT148G	20.97	19
OT007G	19.49	4	OT038G	7.00	7	OT148G	20.97	21
OT007N	19.49	4	OT038N	7.00	7	OT149B	19.05	11
OT007W	19.49	4	OT038W	7.00	7	OT149B	19.05	7
OT008B	17.58	5	OT044B	4.25	20	OT161B	17.64	7
OT009B	10.47	4	OT044B	4.25	18	OT161G	17.64	7
OT009G	10.47	4	OT044B	4.25	16	OT161N	17.64	7
OT009N	10.47	4	OT044B	4.25	14	OT161W	17.64	7
OT009W	10.47	4	OT044B	4.25	9	OT201B	62.67	12
OT010B	5.01	4	OT044B	4.25	4	OT201B	62.67	8
OT010G	5.01	4	OT045B	9.38	4	OT201W	62.67	8
OT010N	5.01	4	OT045B	9.38	9	OT201W	62.67	12
OT010W	5.01	4	OT045B	9.38	16	OT245B	18.52	6
OT011B	6.46	5	OT045B	9.38	18	OT246B	18.52	6
OT011G	6.46	5	OT060B	2.54	8	OT274B	53.73	8
OT011N	6.46	5	OT061B	2.54	8	OT274G	53.73	8
OT011W	6.46	5	OT064G	2.54	8	OT274N	53.73	8
OT014B	30.11	5	OT072B	21.80	4	OT274W	53.73	8
OT015B	30.11	5	OT072G	21.80	4	OT332B	39.96	8
OT016B	20.66	5	OT072N	21.80	4	OT332G	39.96	8
OT017B	46.11	5	OT072W	21.80	4	OT332N	39.96	8
OT019B	3.45	4	OT074B	43.53	4	OT332W	39.96	8
OT019G	3.45	4	OT074G	43.53	4	OT624B	16.00	4
OT019N	3.45	4	OT074N	43.53	4	OT624G	16.00	4
OT019W	3.45	4	OT074W	43.53	4	OT624N	16.00	4
OT024B	7.29	7	OT082B	24.44	6	OT624W	16.00	4
OT024G	7.29	7	OT082G	24.44	6	OT625B	24.16	4
OT024N	7.29	7	OT082N	24.44	6	OT745B	18.20	6
OT024W	7.29	7	OT084B	48.85	6	OT746B	19.71	6
OT025B	9.14	7	OT084G	48.85	6	OT914B	14.84	5
OT025G	9.14	7	OT084N	48.85	6	OT914G	14.84	5
OT025N	9.14	7	OT084W	48.85	6	OT914N	14.84	5
OT025W	9.14	7	OT086B	33.64	6	OT914W	14.84	5
OT026B	11.39	7	OT086G	33.64	6	OT985B	10.55	20
OT026G	11.39	7	OT086N	33.64	6	OT985B	10.55	18
OT026N	11.39	7	OT086W	33.64	6	OT985B	10.55	17
OT026W	11.39	7	OT088B	63.80	6	OT985B	10.55	15
OT027B	14.19	7	OT088G	63.80	6	OT985B	10.55	10
OT030B	3.33	7	OT088N	63.80	6	OT985B	10.55	5
OT031B	2.84	7	OT088W	63.80	6	OT986B	15.86	5
OT033B	8.57	6	OT092B	18.01	7	OT986B	15.86	10
OT033G	8.57	6	OT116B	1.94	8	OT986B	15.86	15
OT033N	8.57	6	OT116G	1.94	8	OT986B	15.86	17

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
OT986B	15.86	18	1E346W	4.93	56	2M163E	11.97	75
OT986B	15.86	20	1E346W	4.93	83	2M163W	11.97	46
OT988B	8.79	5	1O149W	17.08	57	2M163W	11.97	75
OT988B	8.79	10	1O149W	17.08	83	2M190B	19.24	75
OT988B	8.79	15	1O158W	3.41	57	2M190B	19.24	46
OT988B	8.79	17	1O159W	4.07	57	2M190E	19.24	46
OT988B	8.79	18	1V402W	46.84	84	2M190E	19.24	75
OT988B	8.79	20	1V402W	46.84	55	2M190W	19.24	46
OT989B	11.82	5	1V403G	93.64	55	2M190W	19.24	75
OT989B	11.82	10	1V403G	93.64	84	2M260B	15.70	75
OT989B	11.82	15	2CS801SE	14.03	72	2M260B	15.70	46
OT989B	11.82	17	2CS802SE	14.03	72	2M260E	15.71	46
OT989B	11.82	18	2CS804SE	8.23	72	2M260E	15.71	75
OT989B	11.82	20	2CS805SE	8.23	72	2M260W	15.71	46
OT999B	81.81	5	2CS812SE	9.87	67	2M260W	15.71	75
OT999G	81.81	5	2CS813SE	14.03	67	2M292B	11.45	75
OT999N	81.81	5	2CS814SE	8.23	67	2M292B	11.45	46
OT999W	81.81	5	2CS815SE	7.60	67	2M292E	11.45	46
1C074W	9.05	56	2CS816SE	9.06	67	2M292E	11.45	75
1C104W	3.41	56	2M073B	40.47	74	2M292W	11.45	46
1C139W	6.22	56	2M073B	40.47	45	2M292W	11.45	75
1C160W	3.32	56	2M073E	40.47	45	2M456B	7.95	76
1C163W	4.07	56	2M073E	40.47	74	2M456B	7.95	47
1C190W	4.76	56	2M073W	40.47	45	2M456E	7.95	47
1C344W	4.93	56	2M073W	40.47	74	2M456E	7.95	76
1C344W	4.93	50	2M081B	2.28	74	2M456W	7.95	47
1C346W	4.93	50	2M081B	2.28	45	2M456W	7.95	76
1C346W	4.93	56	2M081E	2.28	45	2M458B	7.95	76
1E073W	7.62	83	2M081E	2.28	74	2M458B	7.95	47
1E073W	7.62	56	2M081W	2.28	45	2M458E	7.95	47
1E082W	1.20	56	2M081W	2.28	74	2M458E	7.95	76
1E082W	1.20	83	2M104B	9.29	74	2M458W	7.95	47
1E104W	3.41	56	2M104B	9.29	45	2M458W	7.95	76
1E104W	3.41	83	2M104E	9.29	45	2S001	242.22	79
1E129W	5.33	83	2M104E	9.29	74	2S001	242.22	50
1E129W	5.33	56	2M104W	9.29	45	2S001	242.22	44
1E139W	5.95	56	2M104W	9.29	74	2S001	242.22	40
1E139W	5.95	83	2M124E	17.89	74	2S298B	8.23	34
1E156W	4.93	83	2M124E	17.89	45	2S298E	8.23	34
1E156W	4.93	57	2M124W	17.89	45	2S298G	8.23	34
1E160W	3.55	56	2M124W	17.89	74	2S298W	8.23	34
1E160W	3.55	83	2M160B	14.25	74	2S299B	7.60	34
1E163W	4.07	83	2M160B	14.25	45	2S299E	7.60	34
1E163W	4.07	56	2M160E	14.25	45	2S299G	7.60	34
1E166W	4.07	56	2M160E	14.25	74	2S299W	7.60	34
1E166W	4.07	83	2M160W	14.25	45	2S355W	10.90	73
1E190W	4.38	56	2M160W	14.25	74	2S355W	10.90	26
1E190W	4.38	83	2M161B	13.92	75	2S355W*	10.90	64
1E344B	4.93	44	2M161B	13.92	46	2S356W	17.94	26
1E344B	4.93	56	2M161E	13.92	46	2S356W	17.94	73
1E344W	4.93	44	2M161E	13.92	75	2S356W*	17.94	64
1E344W	4.93	56	2M161W	13.92	46	2S360G	12.56	28
1E344W	4.93	83	2M161W	13.92	75	2S398B	8.85	28
1E346B	4.93	44	2M163B	11.97	75	2S398G	8.85	28
1E346B	4.93	56	2M163B	11.97	46	2S398W	8.85	28
1E346W	4.93	44	2M163E	11.97	46	2S399B	8.85	28

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Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
2S399G	8.85	28	2Z086G	5.36	44	3S083G	11.19	66
2S399W	8.85	28	2Z086W	5.36	44	3S083G	11.19	22
2S402B	11.40	28	2Z088B	5.50	44	3S084	20.90	66
2S402G	11.40	28	2Z088G	5.50	44	3S084	20.90	23
2S402W	11.40	28	2Z088W	5.50	44	3S094B	39.70	24
2S403B	9.06	34	2Z104B	6.43	41	3S094G	39.70	71
2S403E	9.06	34	2Z104G	6.43	41	3S094G	39.70	24
2S403G	9.06	34	2Z104W	6.43	41	3S105B	32.49	23
2S403W	9.06	34	2Z124W	11.17	41	3S105G	32.49	71
2S404B	5.55	28	2Z124W •	11.17	89	3S105G	32.49	23
2S498B	9.81	53	2Z128W	11.44	79	3S116B	2.25	30
2S499B	9.81	53	2Z128W	11.44	44	3S116G	2.25	30
2S503B	10.23	53	2Z160B	7.73	41	3S116G	2.25	79
2V004W	2.38	54	2Z160G	7.73	41	3S124B	18.94	23
2V411G	207.74	53	2Z160W	7.73	41	3S124G	18.94	66
2V412G	157.95	53	2Z161B	8.19	42	3S124G	18.94	23
2V414G	131.23	53	2Z161G	8.19	42	3S130G	3.67	30
2V415G	16.65	53	2Z161W	8.19	42	3S130G	3.67	79
2V416G	16.65	53	2Z163B	8.38	42	3S161B	38.47	24
2V418G	21.95	53	2Z163G	8.38	42	3S161G	38.47	71
2V501G	65.47	53	2Z163W	8.38	42	3S161G	38.47	24
2V502G	118.03	53	2Z190B	11.29	42	3S162G	47.96	71
2V510W	330.00	82	2Z190G	11.29	42	3S162G	47.96	25
2V510W	330.00	53	2Z190W	11.29	42	3S163B	38.47	25
2V801W	49.24	51	2Z210B	14.61	43	3S163G	38.47	25
2V805W	58.05	81	2Z210G	14.61	43	3S163G	38.47	71
2V805W	58.05	51	2Z210W	14.61	43	3S190B	68.46	26
2W073G	20.11	48	2Z230W	26.72	43	3S190G	68.46	26
2W073W	20.11	48	2Z260B	7.02	42	3S210G	68.46	27
2W081G	1.71	48	2Z260G	7.02	42	3S274B	75.59	30
2W081W	1.71	48	2Z260W	7.02	42	3S274G	75.59	73
2W086G	5.97	50	2Z292B	8.06	43	3S274G	75.59	30
2W086W	5.97	50	2Z292G	8.06	43	3S288B	50.34	40
2W088G	5.33	50	2Z292W	8.06	43	3S292B	37.42	36
2W088W	5.33	50	2Z347G	7.19	44	3S292B	37.42	30
2W102G	6.20	49	2Z349G	6.81	44	3S292G	37.42	70
2W102G	6.20	43	2Z359G	13.07	42	3S292G	37.42	30
2W102G •	6.20	89	2Z359G •	13.07	89	3S292G	37.42	36
2W105G	6.10	48	3CS190SG	68.46	72	3S300B	15.55	39
2W105W	6.10	48	3CS649SG	36.72	73	3S300G	16.44	70
2W160G	6.10	48	3S001	309.94	40	3S302B	13.62	39
2W160W	6.10	48	3S001	309.94	79	3S302G	13.62	70
2W163G	6.45	49	3S042G	62.31	22	3S302G	13.62	39
2W163W	6.45	49	3S043B	86.12	22	3S319B	17.91	29
2W190G	5.97	49	3S043G	86.12	71	3S319G	17.91	29
2W190W	5.97	49	3S043G	86.12	22	3S323G	23.75	29
2W260W	5.97	49	3S044B	112.77	22	3S414G	131.77	70
2W292G	6.10	49	3S044G	112.77	71	3S414G	131.77	39
2W292W	6.10	49	3S044G	112.77	22	3S435G	40.08	67
2Z073B	23.32	41	3S074B	112.33	22	3S435G	40.08	26
2Z073W	23.32	41	3S074G	112.33	66	3S440B	47.29	26
2Z074G	31.09	41	3S074G	112.33	22	3S440G	47.29	67
2Z081B	2.28	41	3S082B	8.64	22	3S440G	47.29	26
2Z081G	2.28	41	3S082G	8.64	66	3S530B	105.39	40
2Z081W	2.28	41	3S082G	8.64	22	3S649B	36.72	28
2Z086B	5.36	44	3S083B	11.19	22	3S649G	36.72	28

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
4A830W	5.99	82	4M161W	8.29	46	4S082B	7.39	31
4A830W	5.99	54	4M161W	8.29	75	4S082B	7.39	22
4CS319SE	15.02	69	4M163B	6.30	46	4S082E	7.39	31
4CS474SE	78.24	70	4M163B	6.30	75	4S082E	7.39	22
4CS491SE	275.83	68	4M163E	6.30	46	4S082E	7.39	66
4CS574SE	78.24	70	4M163E	6.30	75	4S082G	7.39	22
4CS585SE	21.53	69	4M163W	6.30	46	4S082G	7.39	31
4CS586SE	21.53	69	4M163W	6.30	75	4S082W	7.39	22
4CS588SE	16.10	69	4M190B	10.84	46	4S082W	7.39	31
4CS590SE	31.20	73	4M190B	10.84	75	4S083B	9.59	31
4CS829SE	155.87	68	4M190E	10.84	46	4S083B	9.59	22
4CS830SE	158.11	72	4M190E	10.84	75	4S083E	9.59	31
4CS831SE	155.87	68	4M190W	10.84	46	4S083E	9.59	22
4CS832SE	155.87	68	4M190W	10.84	75	4S083E	9.59	66
4CS834SE	155.87	68	4M260B	8.76	46	4S083G	9.59	22
4CS852SE	132.16	72	4M260B	8.76	75	4S083G	9.59	31
4CS889SE	64.17	68	4M260E	8.76	46	4S083W	9.59	22
4CS890SE	62.27	68	4M260E	8.76	75	4S083W	9.59	31
4CS891SE	63.23	72	4M260W	8.76	46	4S084	21.33	23
4CS892SE	62.30	68	4M260W	8.76	75	4S084	21.33	31
4CS893SE	118.16	68	4M292B	6.70	46	4S084	21.33	66
4CS895SE	64.81	69	4M292B	6.70	75	4S085	142.70	66
4CS896SE	81.95	72	4M292E	6.70	46	4S085	142.70	31
4CS897SE	64.81	69	4M292E	6.70	75	4S085	142.70	23
4M073B	24.11	45	4M292W	6.70	46	4S086	69.33	66
4M073B	24.11	74	4M292W	6.70	75	4S086	69.33	31
4M073E	24.11	45	4S001	306.72	40	4S086	69.33	23
4M073E	24.11	74	4S001	306.72	79	4S095B	34.26	32
4M073W	24.11	45	4S042B	55.94	22	4S095B	34.26	24
4M073W	24.11	74	4S042G	55.94	22	4S095E	34.26	71
4M081B	1.11	45	4S043B	75.37	22	4S095G	34.26	24
4M081B	1.11	74	4S043G	75.37	22	4S095G	34.26	32
4M081E	1.11	45	4S043W	75.37	22	4S096B	37.36	24
4M081E	1.11	74	4S044B	101.68	22	4S096E	37.36	71
4M081W	1.11	45	4S044E	101.68	71	4S096G	37.36	24
4M081W	1.11	74	4S044G	101.68	22	4S097G	39.35	24
4M104B	4.54	45	4S044W	101.68	22	4S098G	39.35	24
4M104B	4.54	74	4S050G	67.97	22	4S104B	16.26	32
4M104E	4.54	45	4S073B	72.50	31	4S104B	16.26	23
4M104E	4.54	74	4S073B	72.50	22	4S104E	16.26	66
4M104W	4.54	45	4S073E	72.50	66	4S104E	16.26	32
4M104W	4.54	74	4S073E	72.50	31	4S104E	16.26	23
4M124E	9.59	45	4S073E	72.50	22	4S104G	16.26	23
4M124E	9.59	74	4S073G	72.50	22	4S104G	16.26	32
4M124W	9.59	45	4S073G	72.50	31	4S104W	16.26	23
4M124W	9.59	74	4S073W	72.50	22	4S104W	16.26	32
4M160B	6.78	45	4S073W	72.50	31	4S105B	35.08	32
4M160B	6.78	74	4S074B	96.66	22	4S105B	35.08	23
4M160E	6.78	45	4S074B	96.66	31	4S105E	35.08	71
4M160E	6.78	74	4S074E	96.66	31	4S105G	35.08	23
4M160W	6.78	45	4S074E	96.66	22	4S105G	35.08	32
4M160W	6.78	74	4S074E	96.66	66	4S105W	35.08	23
4M161B	8.29	46	4S074G	96.66	22	4S105W	35.08	32
4M161B	8.29	75	4S074G	96.66	31	4S106G	47.80	24
4M161E	8.29	46	4S074W	96.66	22	4S107E	29.43	71
4M161E	8.29	75	4S074W	96.66	31	4S116B	7.06	30

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4S116G	7.06	30	4S205B	30.22	23	4S296G	24.69	30
4S116W	7.06	30	4S205G	30.22	23	4S296G	24.69	36
4S120W	19.35	78	4S205W	30.22	23	4S296W	24.69	30
4S120W	19.35	38	4S206B	50.57	24	4S296W	24.69	36
4S121W	20.63	78	4S206B	50.57	32	4S298	17.17	24
4S121W	20.63	38	4S210B	93.99	27	4S298	17.17	79
4S124B	16.92	32	4S210G	93.99	27	4S299	19.77	24
4S124B	16.92	23	4S220B	91.71	27	4S299	19.77	79
4S124E	16.92	32	4S220G	91.71	27	4S300B	14.50	39
4S124E	16.92	23	4S230B	158.11	27	4S300E	15.34	70
4S124E	16.92	66	4S230G	158.11	27	4S300G	14.50	39
4S124G	16.92	23	4S230W	158.11	27	4S300W	14.50	39
4S124G	16.92	32	4S250G	197.11	27	4S302B	10.37	39
4S124W	16.92	23	4S260B	50.61	33	4S302E	10.37	39
4S124W	16.92	32	4S260E	50.61	67	4S302E	10.37	70
4S125B	25.69	32	4S260E	50.61	33	4S302G	10.37	39
4S125B	25.69	23	4S260G	50.61	33	4S302W	10.37	39
4S125E	25.69	66	4S263B	47.64	33	4S303W	78.47	79
4S125E	25.69	32	4S263E	47.64	67	4S303W	78.47	44
4S125E	25.69	23	4S263E	47.64	33	4S303W	78.47	39
4S125G	25.69	23	4S263G	47.64	33	4S303W	78.47	50
4S125G	25.69	32	4S268B	45.97	33	4S304W	177.34	39
4S130G	5.09	30	4S268E	45.97	33	4S304W	177.34	79
4S149	15.21	11	4S268E	45.97	67	4S306G	115.17	39
4S149	15.21	7	4S268G	45.97	33	4S308B	126.62	39
4S159	16.20	7	4S274B	75.84	30	4S310B	52.37	39
4S159	16.20	12	4S274G	75.84	30	4S310E	52.37	39
4S160B	49.76	25	4S274W	75.84	30	4S310E	52.37	70
4S160G	49.76	25	4S275B	40.16	36	4S310G	52.37	39
4S160W	49.76	25	4S275B	40.16	30	4S310W	52.37	39
4S161B	44.79	24	4S275G	40.16	30	4S319B	15.02	35
4S161E	44.79	71	4S275G	40.16	36	4S319B	15.02	29
4S161G	44.79	24	4S281G	141.05	79	4S319E	15.02	35
4S161W	44.79	24	4S281G	141.05	39	4S319E	15.02	29
4S162G	64.28	25	4S283G	135.87	39	4S319G	15.02	29
4S163B	44.79	25	4S283G	135.87	79	4S319G	15.02	35
4S163G	44.79	25	4S288B	75.12	40	4S319W	15.02	29
4S163W	44.79	25	4S288G	75.12	40	4S319W	15.02	35
4S164B	63.79	25	4S290B	62.30	33	4S321B	18.49	29
4S164G	63.79	25	4S290E	62.30	33	4S321G	18.49	29
4S166G	49.61	25	4S290G	62.30	33	4S321W	18.49	29
4S167G	57.08	25	4S291G	248.90	27	4S322B	18.49	29
4S169B	105.38	29	4S292B	35.02	30	4S322G	18.49	29
4S169G	105.38	29	4S292B	35.02	36	4S322W	18.49	29
4S169W	105.38	29	4S292E	35.02	36	4S323G	23.49	29
4S173E	56.27	71	4S292E	35.02	30	4S326B	88.66	19
4S173G	56.27	25	4S292E	35.02	70	4S326B	88.66	21
4S179G	63.63	25	4S292G	35.02	30	4S326B	88.66	40
4S190B	63.23	26	4S292G	35.02	36	4S326G	88.66	21
4S190G	63.23	26	4S292W	35.02	30	4S326G	88.66	40
4S190W	63.23	26	4S292W	35.02	36	4S361G	44.09	25
4S195B	81.95	27	4S296B	24.69	36	4S363B	44.09	25
4S195G	81.95	27	4S296B	24.69	30	4S363G	44.09	25
4S195W	81.95	27	4S296E	24.69	70	4S363W	44.09	25
4S200B	91.71	27	4S296E	24.69	36	4S369G	121.09	29
4S200G	91.71	27	4S296E	24.69	30	4S374G	77.00	30

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4S380G	18.64	40	4S463B	43.99	33	4S584W	16.23	28
4S380G	18.64	79	4S463E	43.99	67	4S585B	21.53	35
4S383G	21.60	40	4S463E	43.99	33	4S585E	21.53	35
4S384G	29.07	40	4S463G	43.99	33	4S585G	21.53	35
4S384G	29.07	80	4S469B	111.01	35	4S586B	21.53	35
4S385G	63.27	40	4S469E	111.01	35	4S586E	21.53	35
4S385G	63.27	80	4S469E	111.01	69	4S586G	21.53	35
4S391G	24.26	40	4S469G	111.01	35	4S588B	16.10	28
4S391G	24.26	80	4S474B	78.24	35	4S588B	16.10	35
4S392	42.23	40	4S474E	78.24	35	4S588G	16.10	28
4S392	42.23	80	4S474G	78.24	35	4S588G	16.10	35
4S394G	30.62	40	4S483B	19.35	34	4S588W	16.10	28
4S395G	71.07	27	4S483E	19.35	34	4S588W	16.10	35
4S410B	70.39	34	4S483E	19.35	69	4S589B	26.18	29
4S410E	70.39	34	4S483G	19.35	34	4S589G	26.18	29
4S410E	70.39	68	4S484B	19.35	35	4S589W	26.18	29
4S410G	70.39	34	4S484E	19.35	35	4S590B	31.20	29
4S414G	146.19	39	4S484E	19.35	69	4S590B	31.20	35
4S414G	146.19	70	4S484G	19.35	35	4S590E	31.20	35
4S416B	7.84	32	4S490B	62.27	33	4S590E	31.20	29
4S416E	7.84	67	4S490E	62.27	33	4S590G	31.20	29
4S416E	7.84	32	4S490G	62.27	33	4S590G	31.20	35
4S416G	7.84	32	4S491B	275.83	34	4S595E	77.46	73
4S430B	155.87	34	4S491E	275.83	34	4S595G	77.46	26
4S430E	155.87	34	4S491G	275.83	34	4S597E	70.44	33
4S430G	155.87	34	4S492B	44.11	36	4S597E	70.44	69
4S435B	41.81	26	4S492E	44.11	36	4S597G	70.44	26
4S435B	41.81	33	4S492E	44.11	70	4S597G	70.44	33
4S435E	41.81	33	4S492G	44.11	36	4S600W	32.54	78
4S435E	41.81	26	4S493B	118.16	35	4S600W	32.54	38
4S435E	41.81	67	4S493E	118.16	35	4S601W	223.20	37
4S435G	41.81	26	4S493G	118.16	35	4S601W	223.20	77
4S435G	41.81	33	4S495B	64.81	34	4S602W	223.20	37
4S435W	41.81	26	4S495E	64.81	34	4S602W	223.20	77
4S435W	41.81	33	4S495G	64.81	34	4S603W	223.20	77
4S440B	57.35	26	4S496B	33.70	32	4S603W	223.20	37
4S440E	57.35	67	4S496E	33.70	32	4S604W	223.20	77
4S440G	57.35	26	4S496E	33.70	67	4S604W	223.20	37
4S440W	57.35	26	4S496G	33.70	32	4S605W	223.20	77
4S444B	57.35	26	4S502B	142.70	29	4S605W	223.20	37
4S444G	57.35	26	4S502G	142.70	29	4S606W	223.20	77
4S444W	57.35	26	4S561B	55.87	25	4S606W	223.20	37
4S445B	63.79	26	4S561G	55.87	25	4S612W	223.20	37
4S445G	63.79	26	4S561W	55.87	25	4S612W	223.20	77
4S445W	63.79	26	4S574B	78.24	35	4S613W	223.20	37
4S450B	46.65	33	4S574E	78.24	35	4S613W	223.20	77
4S450E	46.65	33	4S574G	78.24	35	4S614W	223.20	37
4S450E	46.65	67	4S581B	48.05	28	4S614W	223.20	77
4S450G	46.65	33	4S581G	48.05	28	4S615W	223.20	37
4S461B	44.05	32	4S582B	38.49	28	4S615W	223.20	77
4S461E	44.05	67	4S582G	38.49	28	4S616W	223.20	77
4S461E	44.05	32	4S583B	18.67	28	4S701W	58.65	39
4S461G	44.05	32	4S583G	18.67	28	4S711W	40.21	77
4S461W	44.05	32	4S583W	18.67	28	4S711W	40.21	37
4S462B	47.64	33	4S584B	16.23	28	4S745W	44.60	78
4S462G	47.64	33	4S584G	16.23	28	4S745W	44.60	37

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4S771W	57.53	37	4T830B	50.48	12	4V803W	20.37	51
4S771W	57.53	77	4T830N	50.48	12	4V803W	20.37	81
4S772W	49.93	37	4T830W	50.48	12	4V804W	31.24	51
4S772W	49.93	77	4T832B	14.46	12	4V806W	18.09	52
4S790W	57.35	38	4T832N	14.46	12	4V806W	18.09	81
4S790W	57.35	78	4T832W	14.46	12	4V807W	24.70	51
4S791W	33.91	37	4T833B	5.80	11	4V808W	31.40	51
4S791W	33.91	77	4T833N	5.80	11	4V809W	17.46	81
4S792W	35.88	37	4T833W	5.80	11	4V809W	17.46	51
4S792W	35.88	77	4T834B	4.93	11	4V811W	14.83	52
4T731B	8.20	11	4T834N	4.93	11	4V812W	21.73	81
4T731W	8.20	11	4T834W	4.93	11	4V812W	21.73	51
4T803B	16.38	9	4T835B	40.02	12	4V814W	28.98	82
4T803N	16.38	9	4T835N	40.02	12	4V814W	28.98	51
4T803W	16.38	9	4T835W	40.02	12	4V816W	28.98	51
4T804B	22.75	10	4T836B	13.97	11	4V825W	27.73	81
4T804N	22.75	10	4T836W	13.97	11	4V825W	27.73	52
4T804W	22.75	10	4T837B	17.43	11	4V901W	23.84	51
4T805B	10.17	9	4T837W	17.43	11	4W073B	10.34	48
4T805N	10.17	9	4T838B	19.58	12	4W073G	10.34	48
4T805W	10.17	9	4T838N	19.58	12	4W073W	10.34	48
4T806B	16.89	9	4T838W	19.58	12	4W081B	1.04	48
4T806N	16.89	9	4T855B	54.93	12	4W081G	1.04	48
4T806W	16.89	9	4T858B	54.93	12	4W081W	1.04	48
4T807B	17.91	9	4T860G	2.55	13	4W102B	6.45	43
4T807N	17.91	9	4T861G	2.60	13	4W102B	6.45	49
4T807W	17.91	9	4T862B	20.83	12	4W102G	6.45	43
4T809B	16.22	9	4T862N	20.83	12	4W102G	6.45	49
4T809N	16.22	9	4T862W	20.83	12	4W102W	6.45	43
4T809W	16.22	9	4T864B	2.56	13	4W102W	6.45	49
4T810B	6.49	9	4T872B	23.12	9	4W105B	3.39	48
4T810N	6.49	9	4T872N	23.12	9	4W105G	3.39	48
4T810W	6.49	9	4T872W	23.12	9	4W105W	3.39	48
4T811B	7.49	9	4T874B	46.27	9	4W160B	3.13	48
4T811N	7.49	9	4T874N	46.27	9	4W160G	3.13	48
4T811W	7.49	9	4T874W	46.27	9	4W160W	3.13	48
4T816B	2.38	13	4T882B	24.65	11	4W161B	3.39	48
4T816N	2.38	13	4T882N	24.65	11	4W161G	3.39	48
4T816W	2.38	13	4T882W	24.65	11	4W161W	3.39	48
4T818B	27.48	10	4T884B	50.48	11	4W163B	3.39	49
4T818W	27.48	10	4T884N	50.48	11	4W163G	3.39	49
4T819B	4.38	9	4T884W	50.48	11	4W163W	3.39	49
4T819N	4.38	9	4T886B	34.84	11	4W166B	3.13	49
4T819W	4.38	9	4T886N	34.84	11	4W166W	3.13	49
4T823B	15.41	11	4T886W	34.84	11	4W190B	3.60	49
4T823N	15.41	11	4T888B	69.47	11	4W190G	3.60	49
4T823W	15.41	11	4T888N	69.47	11	4W190W	3.60	49
4T824B	17.02	11	4T888W	69.47	11	4W260B	3.60	49
4T824N	17.02	11	4T894B	18.24	10	4W260G	3.60	49
4T824W	17.02	11	4T999B	85.35	10	4W260W	3.60	49
4T825B	9.76	12	4T999N	85.35	10	4W292B	3.39	49
4T825N	9.76	12	4T999W	85.35	10	4W292G	3.39	49
4T825W	9.76	12	4V001W	1.94	54	4W292W	3.39	49
4T826B	12.11	12	4V003W	2.38	54	4Z073B	14.71	41
4T826N	12.11	12	4V801W	16.64	81	4Z073W	14.71	41
4T826W	12.11	12	4V801W	16.64	51	4Z074G	19.62	41

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4Z081B	1.11	41	5M081W	1.13	45	5T508B	22.17	18
4Z081G	1.11	41	5M081W	1.13	74	5T509B	14.85	18
4Z081W	1.11	41	5M104B	5.72	45	5T510B	7.21	18
4Z104B	3.14	41	5M104B	5.72	74	5T511B	10.87	18
4Z104G	3.14	41	5M104E	5.72	45	5T516B	2.55	19
4Z104W	3.14	41	5M104E	5.72	74	5T519B	5.42	18
4Z120W	4.58	43	5M104W	5.72	45	5T564B	2.75	19
4Z124G	6.59	41	5M104W	5.72	74	5T574B	66.84	18
4Z124W	6.59	26	5M124E	10.01	45	5T594B	23.87	18
4Z124W	6.59	41	5M124E	10.01	74	5T595B	24.62	19
4Z124W	6.59	73	5M124W	10.01	45	5T596B	26.05	19
4Z124W•	6.59	64	5M124W	10.01	74	5T999B	99.34	18
4Z127W	9.19	43	5M160B	7.98	45	5V002W	1.94	54
4Z127W	9.19	79	5M160B	7.98	74	5V407W	43.54	53
4Z128W	8.68	79	5M160E	7.98	45	5V407W	43.54	55
4Z128W	8.68	44	5M160E	7.98	74	5V407W	43.54	84
4Z160B	4.17	41	5M160W	7.98	45	5V408W	51.34	52
4Z160G	4.17	41	5M160W	7.98	74	5V468W	49.94	55
4Z160W	4.17	41	5M161B	10.01	46	5V468W	49.94	84
4Z161B	4.39	42	5M161B	10.01	75	5V801W	18.94	51
4Z161G	4.39	42	5M161E	10.01	46	5V801W	18.94	81
4Z161W	4.39	42	5M161E	10.01	75	5V802W	22.15	81
4Z163B	3.92	42	5M161W	10.01	46	5V802W	22.15	52
4Z163G	3.92	42	5M161W	10.01	75	5V803W	30.52	51
4Z163W	3.92	42	5M163B	7.08	46	5V803W	30.52	81
4Z185W	10.93	43	5M163B	7.08	75	5V805W	33.40	81
4Z190B	5.20	42	5M163E	7.08	46	5V805W	33.40	51
4Z190G	5.20	42	5M163E	7.08	75	5V806W	15.03	52
4Z190W	5.20	42	5M163W	7.08	46	5V806W	15.03	81
4Z210W	8.24	43	5M163W	7.08	75	5V807W	28.78	81
4Z260B	5.68	42	5M190B	12.35	46	5V807W	28.78	51
4Z260G	5.68	42	5M190B	12.35	75	5V808W	37.66	82
4Z260W	5.68	42	5M190E	12.35	46	5V808W	37.66	51
4Z263B	3.33	42	5M190E	12.35	75	5V809W	23.19	51
4Z263W	3.33	42	5M190W	12.35	46	5V809W	23.19	81
4Z292B	4.33	43	5M190W	12.35	75	5V811W	16.09	52
4Z292G	4.33	43	5M260B	10.56	46	5V812W	26.61	51
4Z292W	4.33	43	5M260B	10.56	75	5V812W	26.61	81
4Z343G	3.76	55	5M260E	10.56	46	5V814W	36.58	51
4Z343G	3.76	44	5M260E	10.56	75	5V814W	36.58	82
4Z363W	6.74	82	5M260W	10.56	46	5V816W	36.59	51
4Z363W	6.74	43	5M260W	10.56	75	5V823W	36.49	52
4Z364G	4.38	43	5M292B	6.59	46	5V824W	40.21	52
4Z364W	4.38	43	5M292B	6.59	75	5V824W	40.21	81
5A830W	6.43	54	5M292E	6.59	46	5V842W	30.84	52
5A830W	6.43	82	5M292E	6.59	75	5V846W	28.09	52
5M073B	26.31	45	5M292W	6.59	46	5V846W	28.09	81
5M073B	26.31	74	5M292W	6.59	75	5V848W	70.65	52
5M073E	26.31	45	5M455B	4.22	47	5V860W	62.06	52
5M073E	26.31	74	5M455B	4.22	76	5V864W	33.55	82
5M073W	26.31	45	5M455E	4.22	47	5V864W	33.55	53
5M073W	26.31	74	5M455E	4.22	76	5V869W	49.24	53
5M081B	1.13	45	5M455W	4.22	47	5V870W	28.68	54
5M081B	1.13	74	5M455W	4.22	76	5V870W	28.68	82
5M081E	1.13	45	5T503B	24.80	18	5V871W	15.37	54
5M081E	1.13	74	5T504B	28.27	18	5V871W	15.37	82

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5V901W	24.33	51	5Z124G	6.43	41	6S082G	27.10	22
5V902W	17.71	51	5Z124W	6.43	41	6S082G	27.10	31
5W073B	11.96	48	5Z127W	9.71	43	6S084	45.01	23
5W073G	11.96	48	5Z127W	9.71	79	6S084	45.01	31
5W073W	11.96	48	5Z128W	9.19	44	6S084	45.01	66
5W081B	0.97	48	5Z128W	9.19	79	6S085	167.57	23
5W081G	0.97	48	5Z160B	4.93	41	6S085	167.57	31
5W081W	0.97	48	5Z160G	4.93	41	6S085	167.57	66
5W084B	3.13	50	5Z160W	4.93	41	6S086	98.84	23
5W084G	3.13	50	5Z161B	5.24	42	6S086	98.84	31
5W084W	3.13	50	5Z161G	5.24	42	6S086	98.84	66
5W102B	6.45	43	5Z161W	5.24	42	6S099E	87.71	71
5W102B	6.45	49	5Z163B	4.39	42	6S099G	87.71	24
5W102G	6.45	43	5Z163G	4.39	42	6S104B	39.36	23
5W102G	6.45	49	5Z163W	4.39	42	6S104B	39.36	32
5W102G •	6.45	89	5Z185W	11.33	43	6S104E	39.36	32
5W102W	6.45	43	5Z190B	5.48	42	6S104E	39.36	23
5W102W	6.45	49	5Z190G	5.48	42	6S104E	39.36	66
5W105B	3.60	48	5Z190W	5.48	42	6S104G	39.36	23
5W105G	3.60	48	5Z210B	10.01	43	6S104G	39.36	32
5W105W	3.60	48	5Z210G	10.01	43	6S105E	98.84	71
5W160B	3.14	48	5Z210W	10.01	43	6S105G	98.84	23
5W160G	3.14	48	5Z230W	17.65	43	6S105G	98.84	32
5W160W	3.14	48	5Z260B	5.52	42	6S124B	57.90	23
5W161B	3.39	48	5Z260G	5.52	42	6S124B	57.90	32
5W161G	3.39	48	5Z260W	5.52	42	6S124E	57.90	66
5W161W	3.39	48	5Z263B	3.88	42	6S124G	57.90	23
5W163B	3.13	49	5Z263G	3.88	42	6S124G	57.90	32
5W163G	3.13	49	5Z263W	3.88	42	6S130G	9.29	30
5W163W	3.13	49	5Z292B	4.56	43	6S161G	151.68	24
5W166B	3.13	49	5Z292G	4.56	43	6S163G	151.68	25
5W166G	3.13	49	5Z292W	4.56	43	6S190G	273.96	26
5W166W	3.13	49	5Z344G	3.88	44	6S198G	211.13	27
5W185B	4.01	50	5Z363W	6.74	43	6S210G	273.96	27
5W190B	3.14	49	5Z363W	6.74	82	6S218G	211.13	27
5W190G	3.14	49	5Z364W	4.93	43	6S238G	373.12	27
5W190W	3.14	49	5Z455B	2.95	44	6S274G	205.45	30
5W260B	3.60	49	5Z455G	2.95	44	6S292B	76.58	30
5W260G	3.60	49	5Z455W	2.95	44	6S292B	76.58	36
5W260W	3.60	49	6CS218SE	273.96	72	6S292G	76.58	30
5W292B	3.13	49	6CS474SE	167.35	70	6S292G	76.58	36
5W292G	3.13	49	6CS897SE	152.84	72	6S302G	38.89	39
5W292W	3.13	49	6S043E	280.72	71	6S323G	36.40	29
5Z073B	18.18	41	6S043G	280.72	22	6S416E	20.17	32
5Z073W	18.18	41	6S044G	365.27	22	6S416E	20.17	67
5Z074G	24.20	41	6S074B	338.19	22	6S440G	169.51	26
5Z081B	1.13	41	6S074B	338.19	31	6S461B	116.03	32
5Z081G	1.13	41	6S074E	338.19	31	6S461E	116.03	32
5Z081W	1.13	41	6S074E	338.19	22	6S461E	116.03	67
5Z085B	3.92	44	6S074E	338.19	66	6S461G	116.03	32
5Z085G	3.92	44	6S074G	338.19	22	6S463B	118.84	33
5Z085W	3.92	44	6S074G	338.19	31	6S463E	118.84	33
5Z104B	3.22	41	6S082B	27.10	22	6S463E	118.84	67
5Z104G	3.22	41	6S082B	27.10	31	6S463G	118.84	33
5Z104W	3.22	41	6S082E	27.10	31	6S474B	167.35	35
5Z120W	4.58	43	6S082E	27.10	66	6S474G	167.35	35

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6S490B	198.11	33	8T850B	8.41	14	9T999N	86.41	16
6S490E	198.11	33	8T850W	8.41	14	9T999W	86.41	16
6S490E	198.11	68	8T851B	11.75	14	10UH529	10.21	117
6S490G	198.11	33	8T851W	11.75	14	10UH600	19.27	116
6S498B	152.84	34	8T853B	19.57	14	10UH601	42.06	116
6S498E	152.84	34	8T853W	19.57	14	10UH602	46.21	116
6S498G	152.84	34	8T854B	23.15	15	10UH603	44.15	116
6S499B	63.53	32	8T854W	23.15	15	10UH604	15.50	116
6S499E	63.53	32	8T864B	2.14	15	15UH211 p/pack	35.76	117
6S499E	63.53	67	8T874B	61.51	14	15UH231	0.10	114
6S499G	63.53	32	8T874W	61.51	14	15UH232	13.34	114
6T603B	76.95	20	8T894B	21.93	15	15UH234	33.36	114
6T603G	76.95	20	8T894W	21.93	15	15UH237	430.77	114
6T606B	54.78	20	8T999B	94.71	15	15UH238	0.38	114
6T606G	54.78	20	8T999W	94.71	15	15UH302	29.30	118
6T609B	39.89	20	9T903B	19.61	16	15UH310	177.95	118
6T609G	39.89	20	9T903G	19.61	16	15UH316	194.98	118
6T610B	9.38	20	9T903N	19.61	16	15UH334	17.89	118
6T610G	9.38	20	9T903W	19.61	16	15UH372	52.67	118
6T611B	27.18	20	9T904B	22.48	16	15UH373	54.28	119
6T611G	27.18	20	9T904G	22.48	16	15UH382	82.27	119
6T616B	2.85	21	9T904N	22.48	16	15UH383	90.26	119
6T616G	2.85	21	9T904W	22.48	16	15UH395	17.13	119
6T619B	13.97	20	9T906B	15.17	16	15UH402	28.72	119
6T619G	13.97	20	9T906G	15.17	16	15UH408	134.75	119
6T664B	3.10	21	9T906N	15.17	16	15UH475	127.01	119
6T674B	134.78	20	9T906W	15.17	16	15UH476	127.01	119
6T674G	134.78	20	9T909B	12.33	16	15UH492	239.31	119
6T694B	30.25	20	9T909G	12.33	16	15UH494	9.00	119
6T694G	30.25	20	9T909N	12.33	16	15UH495	17.11	119
6T695B	27.02	20	9T909W	12.33	16	15UH510	114.80	117
6T696B	28.59	21	9T910B	5.39	16	15UH511	44.73	117
6T999B	137.90	20	9T910G	5.39	16	15UH512	389.85	117
6T999G	145.87	20	9T910N	5.39	16	15UH513	117.80	117
8T806B	19.09	14	9T910W	5.39	16	15UH524	34.16	119
8T806W	19.09	14	9T911B	7.59	16	15UH529	10.21	117
8T807B	18.49	14	9T911G	7.59	16	15UH550	65.45	117
8T807W	18.49	14	9T911N	7.59	16	15UH551	128.84	118
8T808B	18.49	14	9T911W	7.59	16	15UH552	190.71	118
8T808W	18.49	14	9T916B	2.06	17	15UH553	228.31	118
8T809B	14.95	14	9T916G	2.06	17	15UH554	266.84	118
8T809W	14.95	14	9T916N	2.06	17	15UH555	316.19	118
8T816B	2.24	15	9T916W	2.06	17	15UH556	347.40	118
8T816W	2.24	15	9T919B	4.29	16	15UH557	384.62	118
8T819B	5.54	14	9T919G	4.29	16	15UH558	453.00	118
8T819W	5.54	14	9T919N	4.29	16	15UH559	498.78	118
8T840B	8.41	14	9T919W	4.29	16	15UH560	543.80	118
8T840W	8.41	14	9T964B	2.04	17	15UH561	599.56	118
8T841B	11.75	14	9T974B	50.70	16	15UH562	631.96	118
8T841W	11.75	14	9T974G	50.70	16	15UH565	6.83	117
8T843B	22.00	14	9T974N	50.70	16	15UH566	6.45	118
8T843W	22.00	14	9T974W	50.70	16	15UH567	43.99	118
8T844B	23.15	15	9T994B	19.98	17	15UH568	7.37	118
8T844W	23.15	15	9T994G	19.98	17	15UH569	2.00	118
8T849B	7.38	14	9T999B	86.41	16	15UH605	12.70	116
8T849W	7.38	14	9T999G	86.41	16	15UH606	5.44	116

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15UH607	18.61	117	3003576	22.18	86	3003727	6.00	88
15UH608	27.65	116	3003577	6.50	86	3003728	21.99	87
15UH610	25.89	116	3003579 [†]	8.72	86	3003736	26.08	90
15UH612	2.99	116	3003582	10.65	86	3003739	34.60	90
15UKPK1	912.71	115	3003583 [†]	13.98	86	3003740	35.88	90
15UKPK2	939.40	115	3003584	33.91	86	3003743	85.52	90
15UKPK3	971.43	115	3003585	27.69	86	3003755	40.61	90
16UH529	10.21	117	3003587 [†]	35.88	86	3003756	40.27	90
3000177	4.53	65	3003588	76.99	86	3003764 ^Δ	40.70	90
3003325	87.94	63	3003597	2.84	86	3003774	43.93	90
3003331	174.32	63	3003598	3.19	86	3003775	49.55	90
3003362	71.20	63	3003602	8.05	87	3003776	49.03	90
3003458	48.33	85	3003603	8.00	87	3003777	54.42	90
3003459	60.57	85	3003619 ^Δ	41.14	91	3003791	95.86	87
3003460	87.13	85	3003620 ^Δ	40.87	91	3003792	13.28	87
3003461	136.16	85	3003621 ^Δ	82.60	91	3003798	2.89	85
3003462	181.60	85	3003622	6.02	87	3003808	5.34	85
3003463	289.26	85	3003633	6.28	87	3003809	5.34	85
3003464	449.63	85	3003638	6.23	88	3003810	5.29	85
3003465	17.21	85	3003641	6.99	87	3003815 ^Δ	8.50	85
3003466	20.39	85	3003642	7.41	88	3003816	9.43	85
3003467	28.05	85	3003649	7.02	87	3003820	2.91	85
3003468	32.43	85	3003650	7.37	88	3003821	3.13	85
3003477	24.01	85	3003652	9.37	88	3003824 ^Δ	4.12	85
3003478	5.45	91	3003655	9.43	88	3003825	4.14	85
3003479	5.58	91	3003657 ^Δ	9.39	88	3003826	4.14	85
3003480	5.76	91	3003662	12.17	87	3003828	5.54	85
3003481	8.02	91	3003663	10.81	88	3003829	5.58	85
3003482	7.81	91	3003665	11.18	88	3003830	6.05	85
3003483	8.21	91	3003666	11.98	87	3003831	5.90	85
3003484	14.52	91	3003667	11.18	88	3003832	6.05	85
3003485	18.79	91	3003668 ^Δ	11.98	87	3003833	6.06	85
3003489	5.59	91	3003670	12.09	87	3003834	6.02	85
3003493	5.33	91	3003671	10.77	88	3003835	6.03	85
3003495	7.58	91	3003674	11.60	87	3003839	13.22	85
3003497	9.62	91	3003675	11.56	88	3003840	13.23	85
3003499	30.22	91	3003676 ^Δ	16.14	87	3003841	3.42	85
3003505	10.55	91	3003677 ^Δ	16.08	88	3003843	4.13	85
3003506	10.42	91	3003679	15.98	87	3003846	96.94	85
3003507	12.47	91	3003685	15.98	87	3003847	96.03	85
3003508	13.25	91	3003687	59.45	88	3003848	96.03	85
3003509	13.59	91	3003688	55.57	87	3003856 ^{*Δ}	217.36	85
3003510	13.94	91	3003689	60.06	88	3003858	5.29	85
3003511	21.18	91	3003690 ^Δ	55.63	87	3003860	2.97	92
3003512	38.45	91	3003698 [*]	119.61	88	3003861	2.53	92
3003513 [*]	178.20	91	3003702 [*]	119.10	88	3003862 ^Δ	2.53	92
3003515	451.58	91	3003704 [*]	171.18	88	3003863	2.54	92
3003516 ^Δ	28.92	92	3003705 [*]	200.21	88	3003864	16.81	92
3003550 ^Δ	21.92	91	3003709 [*]	221.55	88	3003865 ^Δ	3.21	92
3003554 ^Δ	21.36	91	3003710 [*]	221.69	88	3003866	6.02	92
3003569	3.61	86	3003713 ^{*Δ}	242.46	88	3003867 ^Δ	7.52	92
3003570 [†]	3.98	86	3003718 ^{*Δ}	370.43	88	3003868	24.32	92
3003572	4.58	86	3003719 ^{*Δ}	375.02	88	3003869	7.08	92
3003573 [†]	5.65	86	3003723 ^{*Δ}	353.94	88	3003870	7.19	92
3003574	6.64	86	3003724	5.69	87	3003873	22.87	92
3003575	8.05	86	3003726	6.02	88	3003925 ^Δ	48.75	92

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3003943	27.00	86	3020507	39.55	64	3023529	16.91	96
3003944	3.38	87	3020508	42.53	64	3023537	13.45	96
3004370	388.22	95	3020509	115.35	65	3023539	17.86	96
3004371	69.17	95	3020510	10.57	65	3023540	20.44	96
3004372	135.44	95	3020511	14.49	65	3023541	12.45	98
3004378	264.09	95	3020513	195.36	65	3023542	5.11	96
3004379	351.84	95	3020514	16.34	65	3023543	6.22	96
3004380	311.12	95	3021196	81.30	101	3023544	8.99	96
3004381	388.00	95	3023344	10.60	96	3023545	10.01	96
3011162	37.82	101	3023345	5.48	97	3023546	7.78	96
3012211	91.04	63	3023346	7.86	97	3023547	9.87	96
3014918**Δ	218.27	85	3023347	11.28	97	3023548	12.03	96
3017974*	141.06	90	3023348	3.23	95	3023549	13.45	96
3017975*	181.26	90	3023359	4.22	95	3023550	5.72	98
3017976*	218.93	90	3023360	6.34	95	3023551	6.53	98
3017978*	222.25	86	3023361	6.24	98	3023552	8.49	98
3017993	21.84	86	3023362	10.68	98	3023553	18.70	98
3018002*	170.20	88	3023363	4.04	96	3023554	18.04	98
3018003*	171.30	88	3023364	5.08	96	3023555	13.01	96
3018007Δ	40.99	91	3023365	7.21	96	3023557	13.24	97
3018008	9.97	91	3023488	11.03	95	3023558	14.77	97
3018031Δ	266.30	92	3023489	6.52	98	3023559	15.35	97
3018297	246.96	95	3023490	7.24	98	3023560	19.08	97
3018299	349.18	95	3023491	15.49	98	3023561	4.69	98
3018300	283.20	95	3023492	22.52	98	3023562	5.20	98
3018302	493.91	95	3023493	29.98	98	3023563	5.95	98
3018708Δ	0.77	92	3023494	5.49	98	3024664	31.46	97
3018709	0.86	92	3023495	4.06	98	3024665	17.55	95
3018808*	59.96	85	3023496	5.16	98	3024666	21.99	96
3018809*	157.56	85	3023497	8.08	98	3024667	34.35	96
3018810**Δ	218.27	85	3023498	8.60	96	3024668	37.59	96
3018818*	133.18	86	3023499	12.49	96	3027829	49.16	97
3018819**Δ	324.35	86	3023500	11.23	96	3027830	35.89	97
3018821*	125.87	86	3023504	7.19	97	3027831	40.44	97
3018822*	173.98	86	3023505	7.19	97	3027832	25.98	95
3018826*	305.08	88	3023506	7.19	97	3027833	26.36	96
3018828**Δ	353.72	88	3023507	7.19	97	3027834	29.04	96
3018829*	447.44	88	3023508	9.95	97	3027836	20.52	98
3018831*	119.10	88	3023509	9.28	97	3027837	30.17	98
3018833*	171.80	88	3023510	9.82	97	3027838	26.62	98
3018834**Δ	200.21	88	3023511	10.84	97	3027839	23.93	96
3018835**Δ	200.21	88	3023512	9.98	97	3027842	37.69	97
3018836**Δ	202.11	88	3023513	15.08	97	3027847	68.52	95
3018837**Δ	201.51	88	3023514	16.11	97	3027848	77.43	96
3020490	145.12	64	3023515	15.84	97	3027849	85.15	96
3020491	145.12	64	3023516	17.45	97	3027850	69.62	96
3020492	145.12	64	3023517	15.90	97	3027852	66.28	96
3020493	145.12	64	3023518	24.57	97	3027853	92.78	97
3020494	145.12	64	3023519	27.14	97	3027854	83.24	97
3020495	145.12	64	3023520	24.16	97	3027855	70.04	97
3020496	145.12	64	3023521	19.22	97	3027856	63.08	97
3020497	145.12	64	3023522	10.53	96	3028271	220.95	95
3020498	145.12	64	3023525	4.49	96	3041228	42.89	95
3020499	145.12	64	3023526	5.82	96	3043453Δ	36.87	86
3020500	145.12	64	3023527	6.36	96	3043454Δ	42.44	86
3020506	29.77	64	3023528	10.76	96	3043455Δ	69.58	86

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3043457 ^Δ	99.79	86	3074680	81.38	63	4012126	6.16	89
3052945	6.43	98	3074681	112.32	63	4012131	5.60	89
3052946	11.50	98	3074684	191.95	63	4012132	7.05	89
3052947	13.37	98	3074687	49.09	64	4012137	6.13	89
3052948	17.60	98	3074689	116.49	64	4012138	7.12	89
3052949	19.09	98	3074698	28.63	63	4012141	6.43	89
3053971	287.44	95	3074704	14.28	64	4012142	7.02	89
3061202	1172.21	95	3074706	52.57	64	4012146	7.17	89
3061211	15.67	95	3074713	71.15	63	4012147	8.72	89
3061212	22.55	95	3074715	133.12	63	4012151	25.96	89
3061213	34.21	95	3075609	36.34	85	4012155	26.32	89
3065639	87.10	95	3075823	34.50	88	4012159	30.64	89
3065640	82.33	96	3075824	8.00	86	4012326	4.55	90
3065641	80.04	96	3084561	4.00	91	4012329	3.18	89
3065642	92.77	96	3084562	4.78	91	4012331	6.36	89
3065643	94.40	96	3084563	2.36	86	4012333	7.64	89
3065644	130.49	97	3084564 [†]	2.38	86	4012335	6.52	89
3065645	104.19	97	3084565	2.39	86	4012337	6.70	89
3065646	100.37	97	3084566 [†]	3.19	86	4012339	5.19	89
3065647	88.90	97	3084567	2.82	87	4012341	7.06	89
3065902	72.00	64	3084570	5.81	87	4012343	5.84	89
3070526	245.53	95	3084571	4.72	88	4012345	24.92	89
3070529	288.23	95	3084572	5.99	87	4013355	4.68	99
3070629	261.82	91	3084573	6.02	88	4013530	569.75	100
3070630*	179.35	88	3084574	6.02	87	4013538	199.00	100
3070631*	84.81	90	3084575	6.03	88	4013541	315.55	101
3070632*	153.05	85	3084577	2.36	87	4013542	68.09	100
3070633*	119.61	87	4006554	9.42	65	4013543	68.09	100
3070634*	124.92	87	4006556	21.81	65	4013553	29.35	100
3070827	25.00	95	4006566	18.83	64	4013559	37.76	100
3071220	264.09	95	4006568	70.55	64	4013562	40.43	100
3071221	351.84	95	4006571	166.38	64	4013571	24.55	99
3071222	245.53	95	4006573	424.63	64	4013572	24.55	99
3071224	311.12	95	4006583	1.84	65	4013573	24.55	99
3071225	388.00	95	4009725	54.86	87	4020757	48.75	93
3071226	288.23	95	4009748 ^Δ	27.72	92	4023071	23.02	100
3072958	9.15	95	4009750	47.20	92	4023073	25.15	100
3072989	13.13	95	4009751	90.71	92	4023075	33.05	100
3072990	19.97	95	4009761	8.15	92	4023077	374.44	100
3074603	21.47	63	4009793	5.62	90	4023364	71.28	101
3074606	41.45	63	4011390	468.46	93	4023365	76.48	101
3074610	14.86	63	4011393	479.03	93	4023375	29.31	89
3074612	43.29	63	4011396	2272.69	93	4023376	33.41	89
3074619	31.00	63	4011398	POA	93	4024189	1788.06	93
3074622	52.06	63	4011401	POA	93	4024190	2081.63	93
3074637	20.87	63	4011402	POA	93	4024393	1788.06	93
3074638	22.29	63	4011403	629.58	93	4024432	1788.06	93
3074639	23.53	63	4011404	1040.72	93	4024493	1494.50	93
3074640	23.85	63	4011453	13.90	93	4024569	1788.06	93
3074641	24.47	63	4012113	3.47	89	4025509	28.57	93
3074647	47.34	63	4012114	4.36	89	4025989 ^Δ	24.93	92
3074648	48.66	63	4012117	4.79	89	4025992	156.18	92
3074649	50.01	63	4012118	5.58	89	4026014 ^Δ	284.36	93
3074650	53.71	63	4012121	5.02	89	4026438	21.89	90
3074673	39.68	63	4012122	6.10	89	4026439	22.72	90
3074674	65.34	63	4012125	5.22	89	4026441	111.77	90

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4026442	232.39	90	4063767	16.03	90	HD12/28W	15.85	104
4031987	131.21	101	4063768	16.03	90	HD13/15W	5.86	105
4031988	128.06	101	4063769	20.39	90	HD13/22W	5.86	105
4032676	6.52	99	4063770	20.39	90	HD13/28W	15.85	105
4032685	69.54	99	4063772	34.25	90	HD13A/22W	5.86	105
4032698	46.64	99	4064881	233.11	91	HD13A/28W	15.85	105
4032699	73.42	99	4064882	265.27	91	HD14/15W	5.86	105
4032700	6.52	99	4064999	5155.92	92	HD14/22W	5.86	105
4032721	8.42	99	4065000	255.47	93	HD14/28W	15.85	105
4032722	9.08	99	4065001	255.47	93	HD14A/22W	5.86	105
4032723	16.86	99	4066330	154.79	93	HD15/15W	5.86	105
4032724	18.83	99	4999998	66.91	101	HD15/22W	5.86	105
4035779	307.71	101	4999999	67.80	101	HD18/15W	5.86	105
4035780	189.68	101	AO21 WH	27.40	55	HD18/22W	5.86	105
4036272	37.82	101	BV1/21 WH	42.10	58	HD18/28W	15.85	105
4036273	78.18	100	BV1 WH	31.14	58	HD18A/22W	6.19	105
4036330	POA	92	BV3 WH	7.49	58	HD25A/15W	4.12	105
4037386	15.29	100	BV11 WH	7.86	58	HD25B/15W	4.87	105
4037451	11.55	99	CV1 WH	31.14	58	HD25B/22W	5.27	105
4037506	33.72	99	CV3 WH	7.49	58	HD26A/10W	4.18	105
4037508	33.97	99	CV11 WH	7.86	58	HD26A/15W	3.48	105
4037512	21.16	99	FBP3 WH	29.08	59	HD26B/15W	4.18	105
4042219	327.27	87	FBP6 WH	58.11	59	HD26B/22W	4.52	105
4042914	1494.50	93	FCP3 WH	29.08	59	HD27/15W	4.55	105
4043224	172.72	100	FCP6 WH	58.11	59	HD62/10W	3.51	104
4043225	184.81	100	FCW6 WH	2.57	59	HD62/15W	3.14	104
4046556	117.31	101	FCW30 WH	13.59	59	HD62/22W	3.96	104
4046557	117.31	101	FSBW6 WH	2.57	59	HD62/28W	6.59	104
4046558	123.98	101	FSCW6 WH	2.57	59	HD74 GR	18.31	112
4046559	123.98	101	FSCW30 WH	13.59	59	HD75 GR	45.12	112
4046560	181.29	101	HD1/10W	3.96	104	HD77 GR	66.52	112
4046691	129.72	101	HD1/15W	2.36	104	HD78 GR	46.17	112
4046694	129.72	101	HD1/22W	3.33	104	HD125A/15W	7.19	106
4046695	137.02	101	HD1/28W	9.59	104	HD125B/15W	8.51	106
4046756	137.02	101	HD2/15W	4.10	104	HD125B/22W	8.51	106
4046758	189.81	101	HD2/22W	3.18	104	HD125C/22W	14.65	106
4046759	206.34	101	HD2/28W	7.69	104	HD125D/15W	9.13	106
4046768	251.92	101	HD3B/15W	7.46	104	HD125E/15W	19.55	107
4046770	127.05	101	HD3B/22W	6.50	104	HD125E/22W	36.73	107
4048906	1106.75	100	HD3C/22W	7.46	104	HD125EH/15W	19.55	107
4048907	1881.47	100	HD4/10W	4.48	104	HD125EH/22W	36.73	107
4049178	88.21	99	HD4/15W	3.04	104	HD125F/15W •	12.87	107
4049179	119.45	99	HD4/22W	4.48	104	HD125G/15W •	12.87	107
4053507	201.61	101	HD4A/15W	4.48	104	HD125H/15W	8.44	106
4053508	79.60	100	HD5/10W	4.48	104	HD125H/22W	10.34	106
4053509	365.06	101	HD5/15W	2.88	104	HD225A/15W	9.85	106
4053510	405.74	101	HD5/22W	4.23	104	HD225B/15W	11.13	106
4053545	10.41	100	HD5/28W	11.48	104	HD225B/22W	11.84	106
4061068	139.30	91	HD8/10W	4.84	104	HD225C/22W	17.10	106
4063088	8.60	89	HD8/15W	3.36	104	HD225E/15W	21.39	107
4063089	8.72	89	HD8/22W	4.84	104	HD225E/22W	40.06	107
4063090	4.92	89	HD10/10W	5.54	104	HD225H/15W	12.38	106
4063092	4.55	90	HD10/15W	4.05	104	HD225H/22W	14.29	106
4063093	6.52	89	HD10/22W	5.54	104	HD225I/15W	23.54	107
4063094	6.10	89	HD10/28W	15.85	104	HD325A/15W	17.89	106
4063766	16.03	90	HD12/22W	5.86	104	HD325B/22W	21.83	106

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HDW125A/15W	6.81	106	HX60/28W	1.00	104	HXC50/15 BL	77.01	113
HDW125B/15W	8.51	106	HX65/10W	0.21	112	HXC50/22 BL	95.78	113
HDW125B/22W	8.51	106	HX65/15W	0.34	112	HXX03/15W	7.75	103
HDW125D/15W	9.13	106	HX65/22W	0.34	112	HXX03/22W	15.18	103
HDW125E/15W	19.55	107	HX65/28W	0.42	112	HXX03/28W	20.81	103
HDW125E/22W	36.73	107	HX72/15W	17.43	109	HXX06/15W	16.00	103
HDW125H/15W	8.44	106	HX75/15 GR	2.33	112	HXX06/22W	31.40	103
HDW125H/22W	10.34	106	HX75/15 GR	2.33	117	HXX06/28W	42.83	103
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HDW225B/15W	11.13	106	HX75/22 GR	3.26	112	HXX10/15W	24.78	103
HDW225B/22W	11.84	106	HX77/10W	2.17	112	HXX10/22W	48.34	103
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HX6/22W	11.05	108	HX78/10W	0.31	112	HXX25/10W	52.62	103
HX18/15W	7.79	109	HX78/15W	0.36	112	HXX25/10W	52.62	114
HX19/15W	7.80	109	HX78/22W	0.36	112	HXX25/15W	61.90	103
HX20/15W	3.42	105	HX78/28W	0.41	112	HXX25/15W	61.90	114
HX20/22W	4.30	105	HX79/10W	0.36	112	HXX25/22W	120.83	103
HX20/28W	19.28	105	HX79/15W	0.42	112	HXX25/28W	162.92	103
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HX22/22W	16.99	108	HX79/28W	0.46	112	HXX50/10W	103.65	114
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HX30/28W	8.88	108	HX91T/22W	22.11	110	HXX120/15W	289.47	114
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HX31/22W	6.05	108	HX92B/22W	8.65	109	HXXC2528 RD	313.47	103
HX31/28W	8.88	108	HX92T/15W	37.14	110	HXXC5010 BU	215.27	103
HX32/15 GY	6.59	108	HX93T/15W	54.46	110	HXXC5010 RD	215.27	103
HX35/15W	10.31	108	HX94/22W	10.62	110	HXXC5015 BU	247.53	103
HX35/22W	14.69	108	HX94B/22W	11.01	110	HXXC5015 RD	247.53	103
HX36/15W	10.37	108	HX94T/15W	74.35	110	HXXC5022 BU	380.76	103
HX36/22W	12.40	108	HX95A GR	21.29	110	HXXC5022 RD	380.76	103
HX37/15W	7.33	109	HX96/22W	12.14	110	S117 BL	13.11	60
HX38/15W	6.77	109	HX96B/22W	12.14	110	S117 GR	13.11	60
HX39 GR	3.41	108	HX97 GY	3.23	110	S170 WH	48.04	59
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HX44/28W	1.74	105	HX104 BL	2.14	113	WC003W	24.27	78
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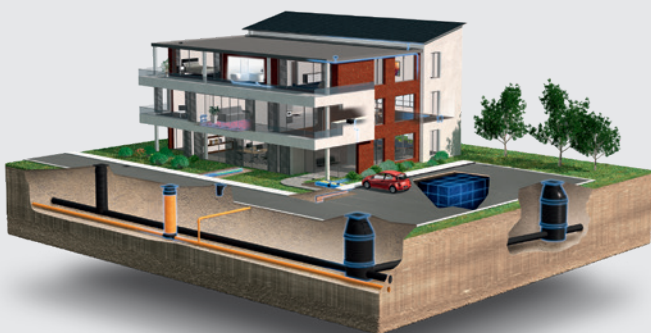
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