

A collage of various Wavin Hep2O OSMA plumbing components. At the top left, a black manifold with multiple orange pipes is visible. Below it is a large white square manifold with four ports. To the right are several dark green vertical pipes and fittings. In the center, there's a white rectangular component, possibly a filter or a large connector. Below that are various smaller white and blue fittings, including elbows, tees, and a long white pipe section. The background is a mix of dark blue and green, with a large blue and green curved shape in the bottom left corner.

wavin **Hep₂O** **OSMA**

Trade Price List Above Ground Systems

1st January 2026

www.wavin.co.uk

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 PVC-U soil pipe is manufactured using Wavin's Recycore Technology but has exactly the same performance and handling characteristics as virgin pipe.

Introduction to



Wavin Osma Above Ground Drainage includes a Guttering range with six profiles to choose from, OsmaSoil with push-fit and solvent weld connection options plus complimentary ancillaries, waste systems, traps (traditional and waterless) and overflow systems.

For information on the benefits and innovative features of the systems please see the Wavin Osma Rainwater and Wavin Osma Soil & Waste Product brochures.

Key to abbreviations

B	Black	E	Olive
N	Brown	W	White
G	Grey	AG	Anthracite 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 Wavin Osma Soil, Waste and Overflow fittings must be ordered in their pack multiples as illustrated in price list, unless the pack quantity is highlighted in a darker shade which indicates they can be ordered in singles.

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

Acceptance

a) British Standards Institution

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

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

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

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

BS 5255 - Thermoplastics waste pipe and fittings.

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

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

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

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

BS EN 12200-1 – 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 – Plastic piping systems for soil and waste (low and high temperature) within the building structure – Acrylonitrile-butadiene-styrene (ABS).

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

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

BS EN 1453-1 – 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.

EN 1519-1 – Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Polyethylene (PE) – Requirements for pipes, fittings and the system.

b) British Board of Agrément

⚡ The Wavin 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

Wavin Hep2O is approved (certificate 1901900) – 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 PVC-U soil pipe is manufactured using Wavin's Recycore Technology but has exactly the same performance and handling characteristics as virgin pipe.

Wavin 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	42.81
	♥	112	OT072G	5	42.81
	♥	112	OT072W	5	42.81
	♥	112	OT072N	5	42.81
	Gutter – 4.0m				
	♥	112	OT074B	5	85.14
	♥	112	OT074G	5	85.14
	♥	112	OT074W	5	85.14
	♥	112	OT074N	5	85.14
	Gutter Union and Brackets				
	Gutter Jointing Bracket				
	♥	112	OT005B	10	13.83
	♥	112	OT005G	5	13.83
	♥	112	OT005W	5	13.83
	♥	112	OT005N	5	13.83
	Gutter Union				
	♥	112	OT009B	10	18.48
	♥	112	OT009G	5	18.48
	♥	112	OT009W	5	18.48
	♥	112	OT009N	5	18.48
	Gutter Support Bracket				
	♥	112	OT019B	40	6.10
	♥	112	OT019G	20	6.10
	♥	112	OT019W	40	6.10
	♥	112	OT019N	20	6.10
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	7.49
	Angled Bracket Spacer	–	OT045B	10	17.30
	Outlets and Stopends				
	Running Outlet – straight				
	♥	112	OT624B	5	27.95
	♥	112	OT624G	5	27.95
	♥	112	OT624W	5	27.95
	♥	112	OT624N	5	27.95
	Swivelock Running Outlet – with fitted offset bend				
	♥	112	OT625B	2	42.61
	Stopend Outlet				
	♥	112	OT007B	5	34.40
	♥	112	OT007G	5	34.40
	♥	112	OT007W	5	34.40
	♥	112	OT007N	5	34.40
	Stopend – internal				
	♥	112	OT010B	5	8.86
	♥	112	OT010G	5	8.86
	♥	112	OT010W	5	8.86
	♥	112	OT010N	5	8.86

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopend – external	112	OT011B	10	11.41
	♥	112	OT011G	5	11.41
	♥	112	OT011W	5	11.41
	♥	112	OT011N	5	11.41
Gutter Angles					
	Angle – 90°				
	♥	112	OT003B	5	26.45
	♥	112	OT003G	5	26.45
	♥	112	OT003W	5	26.45
	Angle – 60°				
	♥	112	OT003N	5	26.45
		112	OT016B	5	36.46
	Angle – 45°				
	♥	112	OT004B	5	34.60
	♥	112	OT004G	5	34.60
	♥	112	OT004W	5	34.60
	♥	112	OT004N	5	34.60
	Fabricated angles to order	112	OT999	1	144.15
Connectors to Metal and PVC-U Gutters					
	Connector to 4" or 4.5" CI Half-round Gutter				
	♥	112	OT008B	10	31.01
	Connector to 4.5" CI Ogee Gutter – LH				
	♥	112	OT014B	5	53.12
	Connector to 4.5" CI Ogee Gutter – RH				
	♥	112	OT015B	5	53.12
Rise and Fall Brackets and Spikes					
	Bow and Pin	112	OT914B	10	26.17
	– for Rise and Fall Brackets	112	OT914G	10	26.17
	(for use with Build-in or	112	OT914W	10	26.17
	Drive-in Spikes)	112	OT914N	10	26.17
	Build-in Spike				
	– 200mm long	–	OT985B	10	18.61
	– 300mm long	–	OT986B	10	27.96
	Drive-in Spike				
	– 200mm long	–	OT988B	10	15.53
	– 300mm long	–	OT989B	10	20.84
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket				
	– 300mm long	112	OT745B	20	33.58
	Side Rafter Bracket				
	– 300mm long	112	OT746B	20	36.34

Wavin Osma RoundLine

Rainwater half round domestic – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Rafter Bracket (BZP) Adjustable Top Rafter Bracket – 300mm long	–	OT147G	20	40.06
	 Adjustable Side Rafter Bracket – 300mm long	–	OT148G	20	37.00
	Rafter Bracket (galvanised) Top Rafter Bracket – 300mm long galvanised	112	OT245B	5	34.14
	 Side Rafter Bracket – 300mm long galvanised	112	OT246B	5	34.14
	Pipe P/E Pipe – 2.0m				
	♥	68	OT082B	5	48.01
	♥	68	OT082G	5	48.01
	♥	68	OT082N	5	48.01
	P/E Pipe – 2.75m				
	♥	68	OT086B	5	67.14
	♥	68	OT086G	5	67.14
	♥	68	OT086W	5	67.14
	♥	68	OT086N	5	67.14
	♥	68	OT086AG	5	67.14
	P/E Pipe – 4.0m				
	♥	68	OT084B	5	95.96
	♥	68	OT084G	5	95.96
	♥	68	OT084W	5	95.96
	♥	68	OT084N	5	95.96
	♥	68	OT084AG	5	95.96
	P/E Pipe – 5.5m				
	♥	68	OT088B	5	125.32
	♥	68	OT088G	5	125.32
	♥	68	OT088W	5	125.32
	♥	68	OT088N	5	125.32
	♥	68	OT088AG	5	125.32
Pipe and Socket Brackets					
	Pipe or Socket Bracket				
	♥	68	OT033B	10	15.12
	♥	68	OT033G	5	15.12
	♥	68	OT033W	5	15.12
	♥	68	OT033N	5	15.12
	♥	68	OT033AG	5	15.12
	Pipe Bracket				
	♥	68	OT034B	20	10.53
	♥	68	OT034G	5	10.53
	♥	68	OT034W	5	10.53
	♥	68	OT034N	5	10.53
	♥	68	OT034AG	5	10.53

Note: Anthracite Grey (AG) gutter available in DeepLine profile only.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Socket Bracket				
	♥	68	OT038B	10	12.35
	♥	68	OT038G	10	12.35
	♥	68	OT038W	10	12.35
	♥	68	OT038N	10	12.35
	♥	68	OT038AG	10	12.35
	Drive-in Pipe Bracket				
	♥	68	OT143B	10	35.10
	Pipe Bracket Spacer – for use with OT033	68	OT031B	10	5.02
	Bracket Extension Piece – for use with OT033				
	♥	68	OT030B	5	5.89
Connectors and Adaptors					
	Pipe Connector				
	♥	68	OT024B	5	12.87
	♥	68	OT024G	5	12.87
	♥	68	OT024W	5	12.87
	♥	68	OT024N	5	12.87
	♥	68	OT024AG	5	12.87
	Connector to 2.5" CI RW pipe				
	♥	68	OT092B	5	31.76
	Rainwater Adaptor – 68mm pipe to 110mm PVC-U drain	–	4S149	10	26.75
	Rainwater Adaptor – 68mm pipe to 110mm PVC-U drain				
	♥	–	OT149B	5	33.61
	Universal Drain Adaptor	–	4S159	10	28.51
Bends and Shoe					
	Offset Bend – socket				
	♥	68	OT025B	10	16.14
	♥	68	OT025G	5	16.14
	♥	68	OT025W	5	16.14
	♥	68	OT025N	5	16.14
	♥	68	OT025AG	5	16.14
	Offset Bend – spigot				
	♥	68	OT026B	10	20.06
	♥	68	OT026G	5	20.06
	♥	68	OT026W	5	20.06
	♥	68	OT026N	5	20.06
	♥	68	OT026AG	5	20.06

Note: Anthracite Grey (AG) gutter available in DeepLine profile only.

Wavin Osma RoundLine

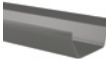
Rainwater half round domestic – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Long Tail Offset Bend – spigot	68	OT027B	5	25.04
	Pipe Bend – 87.5°	68	OT161B	5	31.12
		68	OT161G	5	31.12
		68	OT161W	5	31.12
		68	OT161N	5	31.12
		68	OT161AG	5	31.12
	Pipe Shoe	68	OT037B	5	17.47
		68	OT037G	5	17.47
		68	OT037W	5	17.47
		68	OT037N	5	17.47
		68	OT037AG	5	17.47
Branch, Access Pipe and Hopper Head					
	Pipe Branch – 67.5°	68	OT035B	5	52.50
		68	OT035G	5	52.50
		68	OT035W	5	52.50
		68	OT035N	5	52.50
		68	OT035AG	5	52.50
	Access Pipe – with screwed door	68	OT274B	5	94.76
		68	OT274G	5	94.76
		68	OT274W	5	94.76
		68	OT274N	5	94.76
		68	OT274AG	5	94.76
	Hopper Head	68	OT332B	5	70.49
		68	OT332G	5	70.49
		68	OT332W	5	70.49
		68	OT332N	5	70.49
		68	OT332AG	5	70.49
Spares					
	Gutter Seal	112	OT064G	5	4.68
	Flexiclip	112	OT116B	1	3.41
		112	OT116G	1	3.41
		112	OT116W	1	3.41
		112	OT116N	1	3.41
	Gutter Pad – narrow	112	OT060B	5	4.68
	Gutter Pad – wide	112	OT061B	5	4.68

Note: Anthracite Grey (AG) gutter available in DeepLine profile only.

Wavin Osma SquareLine

Rainwater square – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 2.0m				
	▽	100	4T872B	5	45.41
	▽	100	4T872W	5	45.41
	▽	100	4T872N	5	45.41
	Gutter – 4.0m				
	▽	100	4T874B	5	90.87
	▽	100	4T874W	5	90.87
	▽	100	4T874N	5	90.87
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	100	4T805B	20	17.93
	▽	100	4T805W	20	17.93
	▽	100	4T805N	20	17.93
	Gutter Union				
	▽	100	4T809B	10	28.61
	▽	100	4T809W	5	28.61
	▽	100	4T809N	5	28.61
	Gutter Support Bracket				
	▽	100	4T819B	20	7.72
	▽	100	4T819W	20	7.72
	▽	100	4T819N	20	7.72
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	7.49
	Angled Bracket Spacer	–	OT045B	10	17.30
Outlets and Stopends					
	Running Outlet				
	▽	100	4T806B	10	29.80
	▽	100	4T806W	10	29.80
	▽	100	4T806N	10	29.80
	Stopend Outlet				
	▽	100	4T807B	10	31.59
	▽	100	4T807W	10	31.59
	▽	100	4T807N	10	31.59
	Stopend – internal				
	▽	100	4T810B	5	11.44
	▽	100	4T810W	5	11.44
	▽	100	4T810N	5	11.44
	Stopend – external				
	▽	100	4T811B	10	13.20
	▽	100	4T811W	10	13.20
	▽	100	4T811N	10	13.20
Gutter Angles					
	Angle – 90°				
	▽	100	4T803B	10	28.90
	▽	100	4T803W	10	28.90
	▽	100	4T803N	10	28.90

Wavin Osma SquareLine

Rainwater square – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 45°				
	♥	100	4T804B	5	40.13
	♥	100	4T804W	5	40.13
	♥	100	4T804N	5	40.13
Fabricated angles to order		100	4T999	1	150.54
Connectors to Metal and PVC-U Gutter					
	Connector to 4.5" RoundLine Gutter				
	♥	100	4T818B	5	48.49
	♥	100	4T818W	5	48.49
Rise and Fall Brackets and Spikes					
	Bow and Pin – for Rise and Fall Brackets (for use with Build-in or in Spikes)	100	4T894B	10	32.18
	 Build-in Spike – 200mm long	–	0T985B	10	18.61
	 Build-in Spike – 300mm long	–	0T986B	10	27.96
	 Drive-in Spike – 200mm long	–	0T988B	10	15.53
	 Drive-in Spike – 300mm long	–	0T989B	10	20.84
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	40.06
	 Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	37.00

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 2.0m				
	♥	61	4T882B	5	48.41
	♥	61	4T882W	5	48.41
	♥	61	4T882N	5	48.41
	P/E Pipe – 2.75m				
	♥	61	4T886B	5	68.41
	♥	61	4T886W	5	68.41
	♥	61	4T886N	5	68.41
	P/E Pipe – 4.0m				
	♥	61	4T884B	5	99.17
	♥	61	4T884W	5	99.17
	♥	61	4T884N	5	99.17
	P/E Pipe – 5.5m				
	♥	61	4T888B	5	136.43
	♥	61	4T888W	5	136.43
	♥	61	4T888N	5	136.43
Pipe Brackets and Spacer					
	Pipe Bracket – Stand Off				
	♥	61	4T833B	5	10.22
	♥	61	4T833W	5	10.22
	Pipe Bracket				
	♥	61	4T834B	5	8.70
	♥	61	4T834W	5	8.70
	Pipe Bracket				
	♥	61	4T834N	5	8.70
	Pipe Bracket Spacer	–	4T731B	10	14.46
	– for use with 4T834, 4T823, 4T832, 4T858, 4T855	–	4T731W	10	14.46
Connectors and Adaptors					
	Pipe Connector and Bracket – Stand Off				
	♥	61	4T824B	5	30.03
	♥	61	4T824W	5	30.03
	♥	61	4T824N	5	30.03
	Pipe Connector and Bracket				
	♥	61	4T823B	5	27.19
	♥	61	4T823W	5	27.19
	♥	61	4T823N	5	27.19
	Drain Adaptor – Square to Round				
	♥	61	4T836B	10	24.64
	♥	61	4T836W	5	24.64
	Outlet Adaptor – Square to Round				
	♥	61	4T837B	5	30.73
	♥	61	4T837W	5	30.73
	Rainwater Adaptor 68mm pipe to 110mm PVC–U drain	–	4S149	10	26.75
	Rainwater Adaptor 68mm pipe to 110mm PVC–U drain				
	♥	–	0T149B	5	33.61

Wavin Osma SquareLine

Rainwater square – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Universal Drain Adaptor	–	4S159	10	28.51
Bends, Shoe and Wall Offsets					
	Offset Bend – socket				
	▽	61	4T825B	20	17.22
	▽	61	4T825W	20	17.22
	▽	61	4T825N	20	17.22
	Offset Bend – spigot				
	▽	61	4T826B	10	21.36
	▽	61	4T826W	10	21.36
	▽	61	4T826N	10	21.36
	Pipe Bend – 87.5°				
	▽	61	4T862B	5	36.75
	▽	61	4T862W	5	36.75
	▽	61	4T862N	5	36.75
	Pipe Shoe and Bracket				
	▽	61	4T832B	5	25.51
	▽	61	4T832W	5	25.51
	▽	61	4T832N	5	25.51
	Pipe Wall Offset				
	▽	61	4T838B	10	34.55
	▽	61	4T838W	10	34.55
	▽	61	4T838N	10	34.55
Branch and Hopper Head					
	Pipe Branch – 67.5°				
	▽	61	4T835B	5	70.59
	▽	61	4T835W	5	70.59
	▽	61	4T835N	5	70.59
	Hopper Head				
		61	4T830B	5	89.04
		61	4T830W	5	89.04
		61	4T830N	5	89.04
Spares					
	Gutter Seal	100	4T864B	5	4.50
	Flexiclip				
	▽	100	4T816B	1	4.20
	▽	100	4T816W	1	4.20
	▽	100	4T816N	1	4.20
	Gutter Pad – narrow	100	4T860G	10	4.70
	Gutter Pad – wide	100	4T861G	10	4.60

Wavin Osma StormLine

Rainwater ogee – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter				
	Gutter – 4.0m	111	8T874B	4	123.29
		111	8T874W	4	123.29
Gutter Unions and Brackets					
	Gutter Jointing Bracket				
	▽	111	8T809B	10	26.38
	▽	111	8T809W	10	26.38
	Gutter Support Bracket				
	▽	111	8T819B	10	9.79
	▽	111	8T819W	10	9.79
	Gutter Hanging Bracket				
	▽	111	8T849B	20	13.02
	▽	111	8T849W	20	13.02
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	7.49
Outlets and Stopends					
	Running Outlet				
	▽	111	8T806B	5	35.20
	▽	111	8T806W	5	35.20
	Stopend Outlet (left hand)				
	▽	111	8T807B	5	32.62
	▽	111	8T807W	5	32.62
	Stopend Outlet (right hand)				
	▽	111	8T808B	5	32.62
	▽	111	8T808W	5	32.62
	Stopend – internal (left hand)				
	▽	111	8T840B	5	14.83
	▽	111	8T840W	5	14.83
	Stopend – internal (right hand)				
	▽	111	8T850B	5	14.83
	▽	111	8T850W	5	14.83
	Stopend – external (left hand)				
	▽	111	8T841B	10	20.74
	▽	111	8T841W	10	20.74
	Stopend – external (right hand)				
	▽	111	8T851B	10	20.74
	▽	111	8T851W	10	20.74
Gutter Angles					
	Angle – 90° (internal)				
	▽	111	8T843B	5	38.81
	▽	111	8T843W	5	38.81
	Angle – 90° (external)				
	▽	111	8T853B	5	34.54
	▽	111	8T853W	5	34.54

Wavin Osma StormLine

Rainwater ogee – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 45° (internal)	111	8T844B	5	40.83
	♡	111	8T844W	5	40.83
	Angle – 45° (external)	111	8T854B	5	40.83
	♡	111	8T854W	5	40.83
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	38.69
	Build-in Spike – 200mm long	–	0T985B	10	18.61
	– 300mm long	–	0T986B	10	27.96
	Drive-in Spike – 200mm long	–	0T988B	10	15.53
	– 300mm long	–	0T989B	10	20.84
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	40.06
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	37.00
Spares					
	Gutter Seal	111	8T864B	1	3.76
	Flexiclip	111	8T816B	1	3.96
	♡	111	8T816W	1	3.96

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.

Wavin 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	99.59
	♥	113	9T974G	5	99.59
	♥	113	9T974W	5	99.59
	♥	113	9T974N	5	99.59
	♥	113	9T974AG	5	99.59
Gutter Union and Brackets					
	Gutter Union				
	♥	113	9T909B	5	21.76
	♥	113	9T909G	5	21.76
	♥	113	9T909W	5	21.76
	♥	113	9T909N	5	21.76
	♥	113	9T909AG	5	21.76
	Gutter Support Bracket				
	♥	113	9T919B	40	7.59
	♥	113	9T919G	20	7.59
	♥	113	9T919W	20	7.59
	♥	113	9T919N	20	7.59
	♥	113	9T919AG	20	7.59
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	7.49
	Angled Bracket Spacer	–	OT045B	10	17.30
Outlet and Stopends					
	Running Outlet				
	♥	113	9T906B	5	26.74
	♥	113	9T906G	5	26.74
	♥	113	9T906W	5	26.74
	♥	113	9T906N	5	26.74
	♥	113	9T906AG	5	26.74
	Stopend – internal				
	♥	113	9T910B	5	9.50
	♥	113	9T910G	5	9.50
	♥	113	9T910W	5	9.50
	♥	113	9T910N	5	9.50
	♥	113	9T910AG	5	9.50
	Stopend – external				
	♥	113	9T911B	5	13.38
	♥	113	9T911G	5	13.38
	♥	113	9T911W	5	13.38
	♥	113	9T911N	5	13.38
	♥	113	9T911AG	5	13.38

Note:

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

Wavin Osma DeepLine

Rainwater high capacity – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Gutter Angles					
	Angle – 90°				
	♥	113	9T903B	5	34.60
	♥	113	9T903G	5	34.60
	♥	113	9T903W	5	34.60
	♥	113	9T903N	5	34.60
	♥	113	9T903AG	5	34.60
	Angle – 45°				
	♥	113	9T904B	5	39.64
	♥	113	9T904G	5	39.64
	♥	113	9T904W	5	39.64
	♥	113	9T904N	5	39.64
	♥	113	9T904AG	5	39.64
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	35.24
		113	9T994G	10	35.24
		113	9T994AG	10	35.24
	Build-in Spike – 200mm long	–	0T985B	10	18.61
	– 300mm long	–	0T986B	10	27.96
	Drive-in Spike – 200mm long	–	0T988B	10	15.53
	– 300mm long	–	0T989B	10	20.84
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	40.06
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	37.00
Spares					
	Gutter Seal	113	9T964B	10	3.59
	Flexiclip				
	♥	113	9T916B	1	3.66
	♥	113	9T916G	1	3.66
	♥	113	9T916W	1	3.66
	♥	113	9T916N	1	3.66
	♥	113	9T916AG	1	3.66

Wavin 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	131.28
	Gutter Union and Brackets Gutter Union ♥	125	5T509B	5	26.18
	Gutter Support Bracket ♥	125	5T519B	5	9.56
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	7.49
	Angled Bracket Spacer	–	OT045B	10	17.30
	Outlet and Stopends Running Outlet ♥	125	5T508B	5	39.10
	Stopend – internal ♥	125	5T510B	5	12.72
	Stopend – external ♥	125	5T511B	5	19.17
	Gutter Angles Angle – 90° ♥	125	5T503B	5	43.76
	Angle – 45° ♥	125	5T504B	5	49.86
	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	42.10
	Build-in Spike – 200mm long – 300mm long	– –	OT985B OT986B	10 10	18.61 27.96
	Drive-in Spike – 200mm long – 300mm long	– –	OT988B OT989B	10 10	15.53 20.84

Wavin Osma SuperLine

Rainwater half round commercial – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Rafter Brackets (PVC Coated Steel) Top Rafter Bracket – 300mm long	125	5T595B	10	45.41
	 Side Rafter Bracket – 300mm long	125	5T596B	10	48.05
	Rafter Bracket (BZP) Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	40.06
	 Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	37.00
	Rainwater Hopper Hopper Head	110	4S326B	5	155.97
	Spares Gutter Seal	125	5T564B	10	5.09
	 Flexiclip ♥	125	5T516B	1	4.49

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

Wavin Osma RoofLine

Rainwater half round commercial – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Gutter Gutter – 4.0m ♥ ♥	150 150	6T674B 6T674G	5 5	264.73 264.73
	Gutter Union and Bracket Gutter Union ♥ ♥	150 150	6T609B 6T609G	5 5	70.37 70.37
	Gutter Support Bracket ♥ ♥	150 150	6T619B 6T619G	10 10	24.64 24.64
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	7.49
	Outlet and Stopends Running Outlet ♥ ♥	150 150	6T606B 6T606G	5 5	96.63 96.63
	Stopend – internal ♥ ♥	150 150	6T610B 6T610G	5 5	16.56 16.56
	Stopend – external ♥ ♥	150 150	6T611B 6T611G	5 5	47.94 47.94
	Gutter Angles Angle – 90° ♥ ♥	150 150	6T603B 6T603G	5 5	135.72 135.72
	Fabricated angles to order	150	6T999	1	243.24
	Rise and Fall Brackets and Spikes Bow and Pin – for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	150 150	6T694B 6T694G	20 20	53.37 53.37
	Build-in Spike – 200mm long – 300mm long	– –	0T985B 0T986B	10 10	18.61 27.96
	Drive-in Spike – 200mm long – 300mm long	– –	0T988B 0T989B	10 10	15.53 20.84
	Rafter Brackets (PVC coated steel) Top Rafter Bracket – 300mm long	150	6T695B	10	49.82
	Side Rafter Bracket – 300mm long	150	6T696B	10	52.71

Wavin Osma RoofLine

Rainwater half round commercial – PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Rafter Brackets (BZP) Adjustable Top Rafter Bracket – 300mm long	–	OT147G	20	40.06
	 Adjustable Side Rafter Bracket – 300mm long	–	OT148G	20	37.00
	Rainwater Hopper Hopper Head	110	4S326B	5	155.97
		110	4S326G	5	155.97
 	Spares Gutter Seal	150	6T664B	4	5.48
	Flexiclip ♡	150	6T616B	1	5.03
	Flexiclip ♡	150	6T616G	1	5.03

Note: For details of 110mm (4") pipe and fittings for use with the RoofLine Rainwater System refer to pages 21-34.

Wavin 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				
	▽△	110	4S042B	2	111.70
	▽△	110	4S042G	2	111.70
 Made with Wavin Recycore Technology™ 50% RECYCLED RAW MATERIAL	S/S Pipe – 2.5m				
	▽△	110	4S050G	50	132.43
	S/S Pipe – 3.0m				
	▽	82	3S043B	2	169.17
	▽	82	3S043G	2	169.17
	▽△	110	4S043B	2	146.84
	▽△	110	4S043G	2	146.84
	▽△	110	4S043W	2	146.84
	▽△	160	6S043G	2	546.92
	S/S Pipe – 4.0m				
	▽△	110	4S044B	2	198.11
	▽△	110	4S044G	2	198.11
	▽△	110	4S044W	2	198.11
	▽△	160	6S044G	2	711.64
	P/E Pipe – 3.0m				
	▽△	110	4S073B	2	141.27
	▽△	110	4S073G	2	141.27
	▽△	110	4S073W	2	141.27
	P/E Pipe – 4.0m				
	▽	82	3S074G	2	220.65
 Made with Wavin Recycore Technology™ 50% RECYCLED RAW MATERIAL	▽△	110	4S074B	2	188.33
	▽△	110	4S074G	2	188.33
	▽△	110	4S074W	2	188.33
	▽△	160	6S074B	2	658.87
	▽△	160	6S074G	2	658.87
Brackets					
	Pipe Bracket				
	▽	82	3S082B	5	15.20
	▽	82	3S082G	5	15.20
	▽	110	4S082B	10	13.00
	▽	110	4S082G	10	13.00
	▽	110	4S082W	10	13.00
	▽	160	6S082B	1	47.67
	▽	160	6S082G	1	47.67
	Socket Bracket				
	▽	82	3S083B	5	20.22
	▽	82	3S083G	5	20.22
	▽	110	4S083B	5	17.32
	▽	110	4S083G	5	17.32
	▽	110	4S083W	5	17.32
	Pipe or Socket Bracket – BZP coated steel				
	▽	110	4S084	10	37.54
	▽	160	6S084	1	79.19

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

Wavin OsmaSoil

Soil and Vent PVC-U Ring-seal system

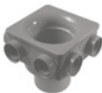
Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Suspended Bracketing System (Not suitable for damp inaccessible voids) Adjustable Pipe Bracket Assembly (pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110	4S086	1	121.97
	 Adjustable 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	251.03
Sockets					
	D/SW Double Socket				
	♥	110	4S104B	5	28.57
	♥	110	4S104G	5	28.57
	♥	110	4S104W	5	28.57
	♥	160	6S104B	1	69.24
	♥	160	6S104G	1	69.24
	D/S Double Socket – for repairs				
	♥	82	3S105B	5	57.16
	♥	82	3S105G	5	57.16
	♥	110	4S105B	5	61.71
	♥	110	4S105G	5	61.71
	♥	110	4S105W	5	61.71
	♥	160	6S105G	1	173.86
	S/SW Single Socket				
	♥	82	3S124B	5	33.33
	♥	82	3S124G	5	33.33
	♥	110	4S124B	5	29.76
	♥	110	4S124G	5	29.76
	♥	110	4S124W	5	29.76
	♥	160	6S124B	1	101.85
	♥	160	6S124G	1	101.85
	D/S Acoustic Socket				
	♥	110	4S125B	5	45.20
	♥	110	4S125G	5	45.20
	D/S Double Socket				
		110	4S205B	10	53.18
		110	4S205G	10	53.18
		110	4S205W	10	53.18
Connectors					
	S/S Connector to CI soil socket				
	♥	110	4S106G	5	84.10

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	91.39
	Internal Drain Connector for 32mm/40mm waste pipe	110	4S298	5	30.21
	Internal Drain Connector – for 50mm waste pipe	110	4S299	5	34.77
Reducers					
	S/S Reducer – 82mm x 50mm	82	3S094B	5	69.83
	♥	82	3S094G	5	69.83
	Reducer – 110mm x 32mm waste	110	4S098G	5	69.21
	– 110mm x 40mm waste	110	4S097G	5	69.21
	S/S Reducer – 110mm x 50mm	110	4S096B	5	65.70
	♥	110	4S096G	5	65.70
	S/S Reducer – 110mm x 82mm	110	4S095B	5	60.26
	♥	110	4S095G	5	60.26
	S/S Reducer – 160mm x 110mm	160	6S099G	1	154.27
Bends					
	S/S Bend – 87.5°	82	3S161B	5	67.66
	♥	82	3S161G	5	67.66
	♥	110	4S161B	5	78.79
	♥	110	4S161G	5	78.79
	♥	110	4S161W	5	78.79
	♥	160	6S161G	1	266.82
	S/SW Bend – 87.5°	110	4S361G	5	77.56
	S/S Tight Radius Bend – 87.5°	110	4S160B	10	87.52
	♥	110	4S160G	10	87.52
	♥	110	4S160W	10	87.52

Wavin OsmaSoil

Soil and Vent PVC-U Ring-seal system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	D/S Bend – 87.5°	110	4S561B	5	98.28
		110	4S561G	5	98.28
		110	4S561W	5	98.28
	S/S Bend – 76°	110	4S164B	5	112.21
	▽	110	4S164G	5	112.21
	S/S Bend – 67.5°	110	4S162G	5	113.09
	▽				
	S/S Bend – 45°	82	3S163B	5	67.66
	▽	82	3S163G	5	67.66
	▽	110	4S163B	5	78.79
	▽	110	4S163G	5	78.79
	▽	110	4S163W	5	78.79
	▽	160	6S163G	1	266.82
	S/SW Bend – 45°	110	4S363B	5	77.56
	▽	110	4S363G	5	77.56
	▽	110	4S363W	5	77.56
	S/S Bend – 30°	110	4S166G	5	87.25
	▽				
	S/S Bend – 15°	110	4S167G	5	100.41
	▽				
Adjustable Bends					
	S/S Adjustable Bend – 30°	110	4S173G	1	98.99
	▲				
	S/S Adjustable Bend – 90°	110	4S179G	1	111.93
	▲				
Offset Bends					
	SW/S Offset Bend (bottom)	82	3S435G	5	70.50
	▽	110	4S435B	5	73.53
	▽	110	4S435G	5	73.53
	▽	110	4S435W	5	73.53

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Offset Bend (top)				
	♥	82	3S440B	5	83.19
	♥	82	3S440G	5	83.19
	♥	110	4S440B	5	100.87
	♥	110	4S440G	5	100.87
	♥	110	4S440W	5	100.87
	♥	160	6S440G	1	298.17
	S/S Offset Bend				
	♥	110	4S444B	5	100.87
	♥	110	4S444G	5	100.87
	♥	110	4S444W	5	100.87
	D/S Offset Bend				
	♥	110	4S445B	5	112.21
	♥	110	4S445G	5	112.21
	♥	110	4S445W	5	112.21
Manifolds					
	6 Boss Manifold	110	4S597G	1	123.90
	OsmaLink Soil Manifold ♥	110	4S595G	1	136.23
	All-Fit Reducer – 1½" / 40 x 1¼" / 32	40	4Z124W	10	12.35
	All-Fit Reduction Bend – 2" / 50 x 1½" / 40	50	2S355W	10	18.10
	All-Fit 90° Spigot Bend – 2" / 50	50	2S356W	5	29.79
Branches					
	S/S Single Branch – 87.5°				
	♥	82	3S190B	5	120.44
	♥	82	3S190G	5	120.44
	♥	110	4S190B	5	111.22
	♥	110	4S190G	5	111.22
	♥	110	4S190W	5	111.22
	♥	160	6S190G	1	481.89
	S/S Single 5 Boss Branch – 87.5°				
	♥	110	4S195B	5	144.16
	♥	110	4S195G	5	144.16
	♥	110	4S195W	5	144.16

Wavin OsmaSoil

Soil and Vent PVC-U Ring-seal system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Single 5 Boss Branch – 87.5° ♥	110	4S395G	5	125.02
	S/S Unequal Single Branch – 87.5° ♥	160	6S198G	1	371.39
	S/S Single Branch – 76° ♥	110	4S220B	1	161.32
	♥	110	4S220G	1	161.32
	S/S Single Branch – 67.5° ♥	110	4S200B	1	161.32
	♥	110	4S200G	1	161.32
	S/S Single Branch – 45° ♥	82	3S210G	5	120.44
	♥	110	4S210B	5	165.33
	♥	110	4S210G	5	165.33
	160x110mm ♥	160	6S218G	1	371.39
	160x160mm ♥	160	6S210G	1	481.89
	S/S Double Branch – 87.5° ♥	110	4S230B	1	278.12
	♥	110	4S230G	1	278.12
	♥	110	4S230W	1	278.12
	S/S Unequal Double Branch – 87.5° ♥	160	6S238G	1	656.32
	S/S Double Branch – 45° ♥	110	4S250G	1	346.71
	S/S Corner Branch – 87.5° ♥	110	4S291G	1	437.81
Boss Socket Adaptors					
	S/S Boss Adaptor (Ring-Seal) – for 1 1/4\" data-bbox="71 861 168 908"/>				
	♥	32	2S398B	10	15.56
	♥	32	2S398G	10	15.56
	♥	32	2S398W	5	15.56

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Boss Adaptor (Ring-Seal) – for 1½" / 40 plastic or copper pipe				
	♥	40	2S399B	5	15.56
	♥	40	2S399G	10	15.56
	♥	40	2S399W	10	15.56
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 plastic or copper pipe				
	♥	50	2S402B	5	20.06
	♥	50	2S402G	5	20.06
	♥	50	2S402W	5	20.06
	S/S Boss Adaptor 90° (Ring-Seal) – for 2" / 50 BS EN 1329, 1455 and 1566 pipe				
	♥	50	2S360G	10	22.08
Bossed Pipes					
	S/S Bossed Pipe – plain with one boss socket				
	♥	82	3S649B	10	64.58
	♥	82	3S649G	10	64.58
	S/S Bossed Pipe – for 1¼" / 32 plastic or copper pipe				
	♥ – NEW	110	4S581B	5	84.52
	♥	110	4S581G	5	84.52
	S/S Bossed Pipe – for 1½" / 40 plastic or copper pipe				
	♥ – NEW	110	4S582B	5	67.70
	♥	110	4S582G	5	67.70
	D/SW Bossed Pipe (Ring Seal) – for 1¼" / 32 plastic or copper pipe				
	♥	110	4S583B	5	32.84
	♥	110	4S583G	5	32.84
	♥	110	4S583W	5	32.84
	D/SW Bossed Pipe (Ring Seal) – for 1½" / 40 plastic or copper pipe				
	♥	110	4S584B	5	28.54
	♥	110	4S584G	5	28.54
	♥	110	4S584W	5	28.54
	D/SW Short Bossed Pipe				
		110	4S588B	5	28.32
		110	4S588G	5	28.32
	– NEW	110	4S588W	5	28.32
	S/S Bossed Pipe – plain with four boss sockets				
	♥	110	4S589B	5	46.05
	♥	110	4S589G	5	46.05
	♥	110	4S589W	5	46.05

Wavin OsmaSoil

Soil and Vent PVC-U Ring-seal system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Bossed Pipe – plain with four boss sockets	110	4S590B	5	54.88
	♥	110	4S590G	5	54.88
	Strap Bosses Strap Boss	82	3S319B	5	31.50
	♥	82	3S319G	5	31.50
	♥	110	4S319B	5	26.42
	♥	110	4S319G	5	26.42
	♥	110	4S319W	5	26.42
	Clip Boss For Push-fit or Solvent Waste – 32mm	110	4S322B	10	32.51
		110	4S322G	10	32.51
		110	4S322W	10	32.51
	For Push-fit or Solvent Waste – 40mm	110	4S321B	5	32.51
		110	4S321G	5	32.51
		110	4S321W	5	32.51
	Patch Boss For Push-fit or Solvent Waste – 50mm	160	6S323G	1	64.02
	Access Fittings S/S Access Bend – 87.5°	110	4S169B	5	185.37
	♥	110	4S169G	5	185.37
	♥	110	4S169W	5	185.37
	S/SW Access Bend – 87.5° ♥	110	4S369G	5	213.00
	S/S Access Branch – 87.5°	110	4S502B	1	251.03
	♥	110	4S502G	1	251.03
	S/S Access Pipe – with bolted door	82	3S274B	5	132.97
	♥	82	3S274G	5	132.97

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/S Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S274B	1	133.41
	♥	110	4S274G	5	133.41
	♥	110	4S274W	1	133.41
	♥	160	6S274G	1	361.38
	S/SW Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S374G	10	135.44
	Access Saddle				
	♥	110	4S275B	1	72.58
	♥	110	4S275G	1	72.58
Plugs					
	P/E Access Plug				
	♥	82	3S292B	5	65.82
	♥	82	3S292G	5	65.82
	♥	110	4S292B	1	61.60
	♥	110	4S292G	1	61.60
	♥	110	4S292W	1	61.60
	♥	160	6S292B	1	134.71
	♥	160	6S292G	1	134.71
	P/E Socket Plug – with one boss socket				
	♥	110	4S296B	5	43.42
	♥	110	4S296G	5	43.42
	♥	110	4S296W	5	43.42
Spares					
	Snap Cap				
		82	3S116B	1	3.96
		82	3S116G	1	3.96
		110	4S116B	1	12.77
		110	4S116G	1	12.77
		110	4S116W	1	12.77
	T Ring Seal				
		110	4S130G	5	9.20
		160	6S130G	5	16.33

Note: For OsmaSoil WC Connectors, Terminal Fittings and Ancillary Items see pages 35-38.

Wavin OsmaSoil

Soil and Vent PVC-U Solvent Weld system

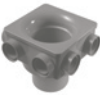
Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Pipe					
	P/E Pipe – 3.0m				
	▽△	110	4S073B	2	141.27
	▽△	110	4S073G	2	141.27
	▽△	110	4S073W	2	141.27
 Made with Wavin Recycore Technology™ 	P/E Pipe – 4.0m				
	▽△	110	4S074B	2	188.33
	▽△	110	4S074G	2	188.33
	▽△	110	4S074W	2	188.33
	▽△	160	6S074B	2	658.87
	▽△	160	6S074G	2	658.87
Brackets					
	Pipe Bracket				
	▽	110	4S082B	10	13.00
	▽	110	4S082G	10	13.00
	▽	110	4S082W	10	13.00
	▽	160	6S082B	1	47.67
	▽	160	6S082G	1	47.67
	Socket Bracket				
	▽	110	4S083B	5	17.32
	▽	110	4S083G	5	17.32
	▽	110	4S083W	5	17.32
	Pipe or Socket Bracket	110	4S084	10	37.54
	– BZP coated steel	160	6S084	1	79.19
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	121.97
	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	251.03
Sockets					
	D/SW Double Socket				
	▽	110	4S104B	5	28.57
	▽	110	4S104G	5	28.57
	▽	110	4S104W	5	28.57
	▽	160	6S104B	1	69.24
	▽	160	6S104G	1	69.24
	D/S Double Socket – for repairs				
	▽	110	4S105B	5	61.71
	▽	110	4S105G	5	61.71
	▽	110	4S105W	5	61.71
	▽	160	6S105G	1	173.86

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

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Single Socket				
	♥	110	4S124B	5	29.76
	♥	110	4S124G	5	29.76
	♥	110	4S124W	5	29.76
	♥	160	6S124B	1	101.85
	♥	160	6S124G	1	101.85
	D/S Acoustic Socket				
	♥	110	4S125B	5	45.20
	♥	110	4S125G	5	45.20
Connectors					
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	91.39
Reducers					
	SW/S Reducer – 110mm x 50mm				
	♥	110	4S496B	5	59.27
	♥	110	4S496G	5	59.27
	S/S Reducer – 110mm x 82mm				
	♥	110	4S095B	5	60.26
	♥	110	4S095G	5	60.26
	SW/S Reducer – 160mm x 110mm				
	♥	160	6S499B	1	111.75
	♥	160	6S499G	1	111.75
Expansion Cap					
	– with integral ring-seal				
		110	4S416B	5	14.16
		110	4S416G	5	14.16
Bends					
	D/SW Bend – 87.5°				
	♥	110	4S461B	5	77.47
	♥	110	4S461G	5	77.47
	♥	110	4S461W	5	77.47
	♥	160	6S461B	1	204.10
	♥	160	6S461G	5	204.10
	D/SW Bend – 67.5°				
	♥	110	4S462B	5	83.82
	♥	110	4S462G	5	83.82
	D/SW Bend – 45°				
	♥	110	4S463B	5	77.39
	♥	110	4S463G	5	77.39
	♥	160	6S463B	1	209.04
	♥	160	6S463G	5	209.04
	SW/S Bend – 45°				
	♥	110	4S263B	5	83.82
	♥	110	4S263G	5	83.82

Wavin OsmaSoil

Soil and Vent PVC-U Solvent Weld system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Bend – 11.25° ♥	110	4S268B	5	80.87
	♥	110	4S268G	5	80.87
	SW/S Long Tail Bend – 87.5° ♥	110	4S260B	5	89.02
	♥	110	4S260G	5	89.02
Offset Bends					
	SW/S Offset Bend (bottom) ♥	110	4S435B	5	73.53
	♥	110	4S435G	5	73.53
	♥	110	4S435W	5	73.53
	D/SW Offset Bend (top) ♥	110	4S450B	5	82.06
	♥	110	4S450G	1	82.06
Manifold					
	6 Boss Manifold	110	4S597G	1	123.90
Branches					
	D/SW Single Branch – 87.5° ♥	110	4S490B	5	109.53
	♥	110	4S490G	5	109.53
	♥	160	6S490B	1	348.48
	♥	160	6S490G	5	348.48
	SW/S Single Branch – 87.5° ♥	110	4S290B	5	109.59
	♥	110	4S290G	5	109.59
	D/SW Single 5 Boss Branch – 87.5° ♥	110	4S495B	5	114.00
	♥	110	4S495G	5	114.00
	D/SW Unequal Single Branch – 87.5° ♥	160	6S498B	1	268.84
	♥	160	6S498G	5	268.84
	D/SW Single Branch – 45° ♥	110	4S410B	5	123.81
	♥	110	4S410G	5	123.81
	D/SW Double Branch – 87.5° ♥	110	4S430B	1	274.16
	♥	110	4S430G	5	274.16

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Corner Branch – 87.5° ♥	110	4S491B	1	485.21
	♥	110	4S491G	5	485.21
Boss Socket Adaptors					
	SW/S Boss Adaptor (Solvent Weld) – for 1 1/4" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	32	2S298B	10	14.47
	♥	32	2S298G	10	14.47
	♥	32	2S298W	10	14.47
	SW/S Boss Adaptor (Solvent Weld) – 1 1/2" / 40mm BS EN 1329, 1455 and 1566 pipe ♥	40	2S299B	10	13.36
	♥	40	2S299G	10	13.36
	♥	40	2S299W	10	13.36
	SW/S Boss Adaptor (Solvent Weld) – for 2" / 50mm BS EN 1329, 1455 and 1566 pipe ♥	50	2S403B	5	15.94
	♥	50	2S403G	5	15.94
	♥	50	2S403W	5	15.94
Bossed Pipes					
	D/SW Bossed Pipe (Solvent Weld) – for 1 1/4" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S483B	5	34.03
	♥	110	4S483G	5	34.03
	D/SW Bossed Pipe (Solvent Weld) – 1 1/2" / 40mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S484B	5	34.03
	♥	110	4S484G	5	34.03
	D/SW Bossed Pipe – plain (four boss sockets) ♥	110	4S586B	5	37.88
	♥	110	4S586G	5	37.88
	SW/S Bossed Pipe – plain (four boss sockets) ♥	110	4S585B	5	37.88
	♥	110	4S585G	5	37.88
	D/SW Short Bossed Pipe	110	4S588B	5	28.32
		110	4S588G	5	28.32
		110	4S588W	5	28.32

Wavin OsmaSoil

Soil and Vent PVC-U Solvent Weld system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Bossed Pipe – plain (four boss sockets)				
	♥	110	4S590B	5	54.88
	♥	110	4S590G	5	54.88
Strap Boss					
	♥	110	4S319B	5	26.42
	♥	110	4S319G	5	26.42
	♥	110	4S319W	5	26.42
Access Fittings					
	D/SW Access Bend – 87.5°				
	♥	110	4S469B	5	195.27
	♥	110	4S469G	5	195.27
	D/SW Access Branch – 87.5°				
	♥	110	4S493B	1	207.86
	SW/S Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S574B	5	129.84
	♥	110	4S574G	1	129.84
	♥	160	6S474B	1	294.37
	♥	160	6S474G	1	294.37
	D/SW Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S474B	5	129.84
	♥	110	4S474G	5	129.84
	Access Saddle				
	♥	110	4S275B	1	72.58
	♥	110	4S275G	1	72.58
Plugs					
	P/E Access Plug				
	♥	82	3S292B	5	65.82
	♥	82	3S292G	5	65.82
	♥	110	4S292B	1	61.60
	♥	110	4S292G	1	61.60
	♥	110	4S292W	1	61.60
	♥	160	6S292B	1	134.71
	♥	160	6S292G	1	134.71
	SW/S Access Plug				
	♥	110	4S492B	5	77.60
	♥	110	4S492G	1	77.60
	P/E Socket Plug – with one boss socket				
	♥	110	4S296B	5	43.42
	♥	110	4S296G	5	43.42
	♥	110	4S296W	5	43.42

Wavin OsmaSoil

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	392.61
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	392.61
	(RH) ▽	110	4S612W	1	392.61
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	392.61
	(RH) ▽	110	4S613W	1	392.61
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	392.61
	(RH) ▽	110	4S614W	1	392.61
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	392.61
	(RH) ▽	110	4S615W	1	392.61
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	392.61
	(RH) ▽	110	4S616W	1	392.61
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	59.65
	P/E WC Connector – 14° ▽	110	4S711W	5	70.73
	P/E WC Connector – 90° ▽	110	4S771W	10	101.20
	SW/S WC Connector – 90° ▽	110	4S772W	10	87.83
WC Gaskets					
	WC Gasket – for WC spigots from 4" to 4 1/4"	110	4S121W	10	36.30
	WC Gasket – for WC spigots from 4 1/4" to 4 1/2"	110	4S120W	10	34.03

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WC connectors

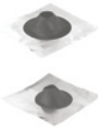
Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
  	WC Connectors – Ancillary Products S/S Long Tail Bend – 87.5° ♻️	110	4S790W	5	100.87
	P/E Pipe – 600mm length ♻️ ♻️	110	4S600W	1	63.40

WC connectors – Easy-fit

Description		Nom dia inch	Cat no	Pack qty	Price £ per piece
Easy-Fit Pan Connectors		4in	WC004W	1	31.83
	Style 1 – Offset	4in	WC204W	1	38.82
	Style 90°	4in	WC904W	1	45.36
	Straight Extension Piece	4in	WC404W	1	38.90

Wavin OsmaSoil

Ancillaries

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Terminal Fittings					
	Balloon Grating	82	3S302B	5	23.96
		82	3S302G	5	23.96
		110	4S302B	5	18.24
		110	4S302G	5	18.24
		110	4S302W	5	18.24
		160	6S302G	1	68.41
	Weathering Collar	82	3S300B	5	27.33
		82	3S300G	5	28.93
		110	4S300B	5	25.50
		110	4S300G	5	25.50
		110	4S300W	5	25.50
	SW/S Vent Cowl				
	▽	110	4S310B	1	92.12
	▽	110	4S310G	1	92.12
	Flexible Vent Pipe				
	– connects to ridge tile adaptor. Length 500mm	110	4S308B	1	222.71
Air Admittance Valves					
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	138.04
	OsmaVent Air Admittance Valve				
	– can also be adapted to fit 82mm soil	110	4S304W	1	311.96
	Domestic Air Admittance Valve				
	All	110	4S306G	1	202.58
Pipe Flashings					
	VariPitch Pipe Flashing				
	– 400mm x 400mm – for flat roofs		4S281G	1	248.11
			4S283G	1	238.98
	– 450mm x 450mm – for pitched roofs				
Roof Outlets					
	SW/S Domed Roof Outlet	82	3S414G	1	231.80
		110	4S414G	1	257.16
Rainwater Hopper and Shoe					
	Hopper Head	82	3S530B	1	185.38
		110	4S326B	5	155.97
		110	4S326G	5	155.97
	S/S Rainwater Pipe Shoe	82	3S288B	5	88.55
		110	4S288B	1	132.16
		110	4S288G	1	132.16

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Ancillaries

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
 Cleaners, Solvent Cements, Lubricants Degreasing Cleaner No.1 – 250ml can  Solvent Cement No. 2 – 125ml can ♥ – 250ml can ♥ – 500ml can ♥  Solvent Cement No.2 403MS No PVC, No ABS & PVC-C A solvent resistant clear adhesive  Solvent Cement Filler – 125ml tube  Silicone Lubricant – 50g tube  Silicone Lubricant Spray – 400ml can		–	4S380G	10	32.78
		–	4S383G	10	37.98
		–	4S384G	10	51.13
		–	4S385G	10	111.30
		–	4S394G	5	53.87
		–	4S391G	5	42.66
		–	4S392	1	74.29

Wavin 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	30.38
	♥	32	4Z073W	10	30.38
	♥	40	5Z073B	10	37.52
	♥	40	5Z073W	10	37.52
	♥	50	2Z073B	10	48.13
	P/E Pipe – 4.0m				
	♥	32	4Z074G	10	40.49
	♥	40	5Z074G	10	49.95
	♥	50	2Z074G	10	64.16
	Bracket				
	Pipe Bracket				
	♥	32	4Z081B	30	2.03
	♥	32	4Z081G	30	2.03
	♥	32	4Z081W	30	2.03
	♥	40	5Z081B	30	2.04
	♥	40	5Z081G	30	2.04
	♥	40	5Z081W	30	2.04
	♥	50	2Z081B	20	4.18
	♥	50	2Z081G	10	4.18
	♥	50	2Z081W	10	4.18
	Sockets				
	Double Socket				
	♥	32	4Z104B	20	5.72
	♥	32	4Z104G	10	5.72
	♥	32	4Z104W	20	5.72
	♥	40	5Z104B	30	5.88
	♥	40	5Z104G	30	5.88
	♥	40	5Z104W	30	5.88
	♥	50	2Z104B	10	11.74
	♥	50	2Z104G	5	11.74
	♥	50	2Z104W	5	11.74
	Expansion Socket – with solvent socket tail				
	♥	32	4Z124G	10	12.35
	♥	32	4Z124W	10	12.35
	♥	40	5Z124G	10	11.74
	♥	40	5Z124W	10	11.74
	♥	50	2Z124W	5	20.40
	Bends				
	Knuckle Bend – 90°				
	♥	32	4Z160B	10	7.62
	♥	32	4Z160G	10	7.62
	♥	32	4Z160W	10	7.62
	♥	40	5Z160B	20	9.01
	♥	40	5Z160G	20	9.01
	♥	40	5Z160W	20	9.01
	♥	50	2Z160B	10	14.11
	♥	50	2Z160G	5	14.11
	♥	50	2Z160W	5	14.11

Wavin OsmaWeld

ABS Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Spigot Bend – 90°				
	♥	32	4Z260B	15	10.39
	♥	32	4Z260G	15	10.39
	♥	32	4Z260W	15	10.39
	♥	40	5Z260B	15	10.08
	♥	40	5Z260G	15	10.08
	♥	40	5Z260W	15	10.08
	♥	50	2Z260B	10	12.80
	♥	50	2Z260G	10	12.80
	♥	50	2Z260W	10	12.80
	Bend – 87.5°				
	♥	32	4Z161B	10	8.01
	♥	32	4Z161G	10	8.01
	♥	32	4Z161W	25	8.01
	♥	40	5Z161B	10	9.57
	♥	40	5Z161G	10	9.57
	♥	40	5Z161W	10	9.57
	♥	50	2Z161B	5	14.95
	♥	50	2Z161G	5	14.95
	♥	50	2Z161W	5	14.95
	Bend – 45°				
	♥	32	4Z163B	20	7.17
	♥	32	4Z163G	20	7.17
	♥	32	4Z163W	20	7.17
	♥	40	5Z163B	20	8.01
	♥	40	5Z163G	20	8.01
	♥	40	5Z163W	20	8.01
	♥	50	2Z163B	10	15.31
	♥	50	2Z163G	5	15.31
	♥	50	2Z163W	5	15.31
	Bend – 45° – male and female				
	♥	32	4Z263B	5	6.10
	♥	32	4Z263W	5	6.10
	♥	40	5Z263B	10	7.08
	♥	40	5Z263G	10	7.08
	♥	40	5Z263W	10	7.08
	Long Tail Bend – 87.5°	50	2Z359G	5	23.85
Tees					
	Tee – 87.5°				
	♥	32	4Z190B	10	9.50
	♥	32	4Z190G	10	9.50
	♥	32	4Z190W	10	9.50
	♥	40	5Z190B	5	10.01
	♥	40	5Z190G	5	10.01
	♥	40	5Z190W	5	10.01
	♥	50	2Z190B	10	20.61
	♥	50	2Z190G	5	20.61
	♥	50	2Z190W	5	20.61

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tee – 45°				
	♥	32	4Z210W	10	15.04
	♥	40	5Z210B	5	18.29
	♥	40	5Z210G	5	18.29
	♥	40	5Z210W	5	18.29
	♥	50	2Z210B	5	26.69
	♥	50	2Z210G	5	26.69
	♥	50	2Z210W	5	26.69
	Cross Tee Cross – 87.5°				
	♥	40	5Z230W	5	32.23
	♥	50	2Z230W	5	48.80
	Plug Access Plug				
	♥	32	4Z292B	10	8.13
	♥	32	4Z292G	5	8.13
	♥	32	4Z292W	5	8.13
	♥	40	5Z292B	15	8.55
	♥	40	5Z292G	15	8.55
	♥	40	5Z292W	15	8.55
	♥	50	2Z292B	5	15.13
	♥	50	2Z292G	5	15.13
	♥	50	2Z292W	5	15.13
	Connectors and Adaptors Straight Adaptor – Push fit to solvent weld				
	♥	32	4Z120W	10	8.33
	♥	40	5Z120W	10	8.33
	Straight Tank Connector	32	4Z185W	10	19.97
		40	5Z185W	5	20.69
	Universal Connector – for BS EN 1329, 1451, 1455 and 1566 pipe				
		32	4W102B	10	11.35
		32	4W102G	10	11.35
		32	4W102W	10	11.35
		40	5W102B	5	11.35
		40	5W102G	5	11.35
		40	5W102W	5	11.35
	Male Cap and Liner – male threaded component	32	4Z363W	10	12.31
		40	5Z363W	10	12.31
	Female Cap and Liner – female threaded component	32	4Z364W	5	8.00
		40	5Z364W	5	9.01
	Male Iron Connector – SW/S and BSPT spigot				
		32	4Z128W	5	15.85
		40	5Z128W	10	16.76
	♥	50	2Z128W	5	20.89

Wavin OsmaWeld

ABS Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Reducers					
	Socket Reducer	50	2Z088B	10	10.08
	– 2"/50mm x 1¼"/32mm	50	2Z088G	5	10.08
		50	2Z088W	5	10.08
	Socket Reducer	50	2Z086B	10	9.85
	– 2"/50mm x 1½"/40mm	50	2Z086G	5	9.85
		50	2Z086W	5	9.85
	Socket Reducer	40	5Z455B	10	5.38
	– 1½"/40mm x 1¼"/32mm	40	5Z455G	10	5.38
		40	5Z455W	10	5.38
	Waste to Overflow Reducer				
	– 32x21.5mm – solvent weld	32	1E344B	5	9.01
		32	1E344W	5	9.01
	– 40x21.5mm – solvent weld	40	1E346B	5	9.01
		40	1E346W	5	9.01
	Reducer to 21.5mm pipe				
	– synthetic rubber	32	4Z343G	10	6.87
	Reducer to 35mm copper pipe				
	– synthetic rubber	40	5Z344G	10	7.08
	Reducer				
	– 2"/50mm x 1¼"/32mm – synthetic rubber	50	2Z347G	5	13.13
	Reducer to 42mm copper pipe				
	– synthetic rubber	50	2Z349G	5	12.43
	Level Invert Reducer	40	5Z085B	5	7.17
	– 1½"/40mm x 1¼"/32mm	40	5Z085G	5	7.17
		40	5Z085W	5	7.17
Air Admittance Valve					
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	138.04

Wavin 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	20.63
	♥	32	4W073G	10	20.63
	♥	32	4W073W	10	20.63
	♥	40	5W073B	10	23.88
	♥	40	5W073G	10	23.88
	♥	40	5W073W	10	23.88
	Bracket				
	Pipe Bracket				
	♥	32	4W081B	30	1.82
	♥	32	4W081G	30	1.82
	♥	32	4W081W	30	1.82
	♥	40	5W081B	30	1.72
	♥	40	5W081G	30	1.72
	♥	40	5W081W	30	1.72
	Socket				
	Double Socket				
	♥	32	4W105B	15	5.94
	♥	32	4W105G	15	5.94
	♥	32	4W105W	15	5.94
	♥	40	5W105B	15	6.34
	♥	40	5W105G	15	6.34
	♥	40	5W105W	15	6.34
	Bends				
	Knuckle Bend – 90°				
	♥	32	4W160B	10	5.50
	♥	32	4W160G	10	5.50
	♥	32	4W160W	10	5.50
	♥	40	5W160B	30	5.51
	♥	40	5W160G	30	5.51
	♥	40	5W160W	30	5.51
	Bend – 87.5°				
	♥	32	4W161B	10	5.94
	♥	32	4W161G	10	5.94
	♥	32	4W161W	10	5.94
	♥	40	5W161B	10	5.94
	♥	40	5W161G	10	5.94
	♥	40	5W161W	10	5.94
	Bend – 45°				
	♥	32	4W163B	15	5.94
	♥	32	4W163G	15	5.94
	♥	32	4W163W	15	5.94
	♥	40	5W163B	20	5.50
	♥	40	5W163G	20	5.50
	♥	40	5W163W	20	5.50
	♥	50	2W163G	5	11.35
	♥	50	2W163W	5	11.35

Wavin Osma Waste

PP Push-fit waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Spigot Bend – 30°				
	♥	32	4W166B	10	5.50
	♥	32	4W166W	10	5.50
	♥	40	5W166B	5	5.50
	♥	40	5W166G	5	5.50
	♥	40	5W166W	5	5.50
	Spigot Bend – 90°				
	♥	32	4W260B	10	6.34
	♥	32	4W260G	10	6.34
	♥	32	4W260W	10	6.34
	♥	40	5W260B	10	6.34
	♥	40	5W260G	10	6.34
	♥	40	5W260W	10	6.34
	♥	50	2W260W	5	10.49
	Tee				
	Tee – 87.5°				
	♥	32	4W190B	15	6.34
	♥	32	4W190G	15	6.34
	♥	32	4W190W	15	6.34
	♥	40	5W190B	10	5.51
	♥	40	5W190G	10	5.51
	♥	40	5W190W	10	5.51
	♥	50	2W190G	5	10.49
	♥	50	2W190W	5	10.49
	Plug				
	Access Plug				
	♥	32	4W292B	5	5.94
	♥	32	4W292G	5	5.94
	♥	32	4W292W	5	5.94
	♥	40	5W292B	5	5.50
	♥	40	5W292G	5	5.50
	♥	40	5W292W	5	5.50
	♥	50	2W292G	10	10.74
	♥	50	2W292W	10	10.74
Connectors and Adaptors					
	Universal Connector – for BS EN 1329, 1451, 1455 and 1566 pipe				
	♥	32	4W102B	10	11.35
	♥	32	4W102G	10	11.35
	♥	32	4W102W	10	11.35
	♥	40	5W102B	5	11.35
	♥	40	5W102G	5	11.35
	♥	40	5W102W	5	11.35
	♥	50	2W102G	10	10.92
	Tank Connector				
	♥	40	5W185B	5	7.06

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers				
	Reducer				
	– 1½" / 40mm x 1¼" / 32mm	40	5W084B	5	5.50
	Reducer	40	5W084G	5	5.50
		40	5W084W	5	5.50
	Reducer	50	2W088G	5	9.38
		50	2W088W	5	9.38
	Reducer	50	2W086G	5	10.49
		50	2W086W	5	10.49
	Reducer	32	1C344W	5	9.01
		40	1C346W	10	9.01
	Air Admittance Valve				
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	138.04

Wavin Osma Waste

Waste connectors and V-Joint traps

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flexible Waste Pipe				
	Flexible Connector 450mm	40	5V901W	1	40.62
	Bottle Traps				
	Bottle Trap – 38mm seal	32 40	4V809W 5V809W	1 1	32.99 43.82
	Bottle Trap – 75mm seal	32 40	4V812W 5V812W	1 1	41.09 50.27
	Anti-Syphon Bottle Trap – 75mm seal	32 40	4V814W 5V814W	1 1	54.76 69.13
	Resealing Bottle Trap – 75mm seal	32 40	4V816W 5V816W	1 1	54.76 69.14
	Adjustable Bottle Trap – 75mm seal	32 40	4V808W 5V808W	1 1	59.34 71.16
	Tubular Traps				
	Tubular 'P' Trap – 75mm seal	32 40	4V801W 5V801W	1 1	31.46 35.78
	Tubular 'S' Trap – 75mm seal	32 40	4V803W 5V803W	1 1	38.49 57.66
	Adjustable Tubular 'P' Trap – 75mm seal	32 40	4V807W 5V807W	1 1	46.69 54.37
	Variform Trap – 75mm seal	32	4V804W	1	59.03
	Running 'P' Trap – 75mm seal	40	5V805W	1	63.14

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Through Trap – 75mm seal	32	4V825W	1	52.40
	Swivel 'P' Trap	32	4V811W	10	28.02
		40	5V811W	10	30.42
Bath Traps					
	Bath Trap – 38mm seal	40	5V802W	1	41.85
	Bath Trap – shallow seal	32	4V806W	1	34.19
		40	5V806W	1	28.37
	Bath Trap – 75mm seal	40	5V846W	1	53.09
	Bath Trap and Overflow – 75mm	40	5V848W	1	133.51
	Anti-Syphon Bath Trap	40	5V842W	1	58.27
	Bath Trap Extended Body – 60mm seal	40	5V860W	1	117.27
Shower Traps					
	Shower Trap – 19mm seal	40	5V823W	1	68.95

Wavin Osma Waste

Waste connectors and V-Joint traps

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Floor Gullies					
	Floor Gully – c/w stainless steel tile and grid	50	2V502G	1	207.62
	Rubber Boss Adaptor *	32	2S498B	10	17.26
	– 2" / 50 plastic or copper pipe	40	2S499B	10	17.26
		50	2S503B	10	18.02
* for use with Osma 2V502 Floor Gully only					
	Stainless Steel Tile and Grid	-	2V414G	1	237.15
	Gully Funnel	-	2V418G	1	38.61
Washing Machine Sink Traps					
	Washing Machine Half Trap – 75mm seal	40	5V864W	1	63.39
	Adjustable Sink Trap – 75mm seal	40	5V869W	1	93.04
	Tubular Swivel Sink Trap – 40mm x 75mm (adjustable) with 19/22mm connection	40	5V407W	1	82.28
	Washing Machine Trap Kit Includes stand pipe and 2 brackets – 75mm seal	40	5V870W	1	54.20
	Washing Machine Tee Piece	40	5V871W	1	25.64
Ancillaries					
	Conversion Bend – 90°	32	4A830W	20	9.95
	– for "P" Trap to convert to "S" Trap	40	5A830W	10	10.67

Wavin Osma Waste

Condensate drainage

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Connectors and Adaptors					
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection	40	5V407W	1	82.28
	Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle	40	5V468W	1	94.37
	Reducer – to 21.5mm pipe – synthetic rubber	32	4Z343G	10	6.87

Wavin 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	21.5	1E073W	10	15.26
	3.0m Solvent 4.0m Push-fit	21.5	1C074W	10	18.08
	Pipe Clip Solvent Push-fit	21.5	1E082W	10	2.18
	Double Socket Solvent	21.5	1E104W	30	6.25
	Push-fit	21.5	1C104W	10	6.01
	Bends Solvent – 90°	21.5	1E160W	10	6.47
	Push-fit – 90°	21.5	1C160W	30	5.84
	Solvent – 45°	21.5	1E166W	10	7.42
	Push-fit – 45°	21.5	1C163W	20	7.15
	Solvent – 25°	21.5	1E163W	10	7.42
	Tee Solvent – 90°	21.5	1E190W	5	8.00
	Push-fit – 90°	21.5	1C190W	5	8.38
	Tank Connectors Straight Tank Connector	21.5	1E129W	5	9.74
	Bent Tank Connector 90° Solvent	21.5	1E139W	5	10.87
	90° Push-fit – cut off bend to convert to straight connector	21.5	1C139W	5	10.94
	Reducers Reducer Solvent Weld				
	32x21.5mm	32	1E344B	5	9.01
	32x21.5mm	32	1E344W	5	9.01
	40x21.5mm	40	1E346B	5	9.01
	40x21.5mm	40	1E346W	5	9.01
	Reducer Push-fit 32x21.5mm	32	1C344W	5	9.01
	40x21.5mm	40	1C346W	10	9.01

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Cap and Lining Cap and Lining	21.5	1E156W	20	9.06
	Adaptors Compression Fitting Adaptor – straight – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O158W	10	6.01
	Compression Fitting Adaptor – 90° – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.	21.5	1O159W	10	7.15

Wavin Osma HepvO Waste

Hygienic self-sealing waste valves – Polypropylene

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	HepvO Hygienic Self Sealing Waste Valve	32 40	BV1 WH CV1 WH	10	45.48
	HepvO Valve			10	45.48
	HepvO Knuckle Adaptor HepvO 87.5° Knuckle Adaptor	32 40	BV11 WH CV11 WH	10 10	11.48 11.48
	HepvO Running Adaptor For installing HepvO in a pipe run	32 40	BV3 WH CV3 WH	10 10	10.93 10.93
	HepvO Tundish Adaptor HepvO Tundish Adaptor Kit	32	BV1/21 WH	5	61.50

Wavin 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	54.65
3.0m	40	FCP3 WH	1	54.65
6.0m	32	FBP6 WH	1	109.18
6.0m	40	FCP6 WH	1	109.18
 Spigot Connectors – To Push-fit Waste	40	FCW6 WH	1	4.45
– To Solvent Weld Waste	32	FSBW6 WH	10	4.45
	40	FSCW6 WH	10	4.45

Flexible soil pipe

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Flexible Pan Connector – Long Nominal length 280mm, nominal extended length 920mm	110	S170 WH	1	82.74
 – Short Nominal length 230mm, nominal extended length 670mm	110	S171 WH	1	79.31
 – Extra Short Nominal length 195mm, nominal extended length 410mm	110	S172 WH	1	75.89

Condensate fitting

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Condensate Soakaway	21.5	S951 BL	1	59.93

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 Standards:

BS EN 1566-1 – 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 – 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 – 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 – Polypropylene waste pipe and fittings.

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

BS EN 12380 – Air admittance valves for drainage systems.

Requirements, test methods and evaluation of conformity.

b) 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.

c) WRAS

Wavin Hep2O is approved (certificate 1901900) – 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.

Email: info@wavin.co.uk

Web: www.wavin.co.uk

Wavin AS+

Acoustic Soil system – Astolan® and PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	S/S Pipe				
	3.0m	50	3080063	123	33.05
	0.15m	110	3080030	8	49.38
	1.0m	110	3080033	1	59.51
	2.0m	110	3080034	1	75.09
	2.7m	110	3080035	1	83.80
	3.0m	110	3080036	1	96.01
	0.15m	160	3080044	2	82.95
	3.0m	160	3080050	18	183.85
	Couplers				
	Double Socket Coupler	50	3080016	18	10.41
		110	3080012	8	34.22
		160	3080014	6	66.03
	Bends				
	Bends – 15°, 30°, 45°, 67°, 87°				
	15°	50	3079965	20	10.40
	30°	50	3079966	18	10.40
	45°	50	3079967	16	8.55
	67°	50	3079968	12	10.40
	87°	50	3079969	12	8.55
	15°	110	3079950	8	33.23
	30°	110	3079951	6	35.53
	45°	110	3079952	8	37.49
	67°	110	3079953	6	38.01
	87°	110	3079954	4	38.98
	15°	160	3079959	4	75.42
	30°	160	3079960	4	77.50
	45°	160	3079961	3	79.67
	87°	160	3079962	3	85.54
	Long Bend – 45°				
	45°	110	3080026	3	44.36
	Branches				
	Branch – 45°				
	45°	50/50	3079996	6	18.67
	45°	110/50	3079982	4	41.71
	45°	110/110	3079981	2	63.21
	45°	160/110	3079991	2	129.64
	45°	160/160	3079994	1	178.95
	Branch – 87°				
	87°	50/50	3079997	6	18.67
	87°	110/50	3079983	4	41.71
	87°	110/70	3079985	4	46.64
	87°	110/110	3079980	4	113.35
	87°	160/110	3079992	2	129.64

Note: Wavin AS+ is available in light grey.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Double Branch – 87°	110/110 /110	3080010	2	212.06
	Corner Branch – 87°	110/110 /110	3080008	2	305.80
	Shower Double Branch – 87°	110/110 /50	3080095	2	139.42
	Shower Double Branch – 87° left	110/110 /50	3080096	2	139.42
	Shower Double Branch – 87° right	110/110 /50	3080097	2	139.42
	Soil & Waste Connections				
	S/S Soil Manifold	110	3065902	1	115.26
	All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 3065902	40	4Z124W*	10	12.35
	All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 3065902	50	2S355W*	10	18.10
	All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 3065902	50	2S356W*	5	29.79
	Repair Coupler	110 160	3080088 3080090	8 6	23.67 68.96

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

Wavin AS+

Acoustic Soil system – Astolan® and PVC-U

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Long Socket	50	3080023	5	14.40
		110	3080019	8	27.63
		160	3080021	3	67.46
	End Cap	50	3080106	24	9.66
		110	3080103	8	22.77
		160	3080105	8	83.76
	Reducer	110/50	3080078	6	23.71
		160/110	3080082	6	45.62
	Reducer	50/40	5Z124W	10	11.74
	Access Piece	50	3079917	6	37.75
		110	3079913	4	78.20
		160	3079915	2	185.58
Accessories					
	Wavin LKS-clamp	50	4065138	50	27.63
		110	4065141	20	27.63
		160	4065143	10	27.63
	Gasket EPDM	50	4065145	1	3.54
		110	4065188	1	2.95
		160	4065190	1	7.23
	Gasket NBR	50	4065192	1	3.54
		110	4025566	1	3.54
		160	4025568	1	3.54
	Wavin System Bracket	50	4066449	50	11.78
		110	4066452	25	16.84
		160	4066454	10	26.05
	Firecollar BM-R90	50	4026102	1	89.97
		110	4026106	1	134.22
		160	4026109	1	288.67

Wavin Solvent Soil

PVC-U Solvent Soil

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
   	Pipe				
	P/E Pipe – 3.0m ♥ △	110	4S073E	2	141.27
	P/E Pipe – 4.0m ♥ △	110	4S074E	2	188.33
	♥ △	160	6S074E	2	658.87
	S/S Pipe – 3.0m ♥ △	110	4S043E	2	146.84
	♥ △	160	6S043E	10	560.43
	S/S Pipe – 4.0m ♥ △	110	4S044E	2	203.00
	♥ △				
 	Brackets				
	Pipe Bracket ♥	110	4S082E	20	13.00
	♥	160	6S082E	1	47.67
	Socket Bracket ♥	110	4S083E	5	17.32
   	Sockets				
	D/SW Double Socket ♥	110	4S104E	10	28.57
	♥	160	6S104E	1	69.24
	S/SW Single Socket ♥	110	4S124E	5	29.76
	♥	160	6S124E	5	101.85
	D/S Double Socket – for repairs ♥	110	4S105E	1	61.71
	♥	160	6S105E	1	173.86
	D/S Acoustic Socket ♥	110	4S125E	5	45.20
	Connector				
	S/S Connector to CI or clay drain socket ♥	110	4S107E	5	51.76
 	Reducers				
	SW/S Reducer 110mm x 50mm ♥	110	4S496E	5	59.27
	160mm x 110mm ♥	160	6S499E	1	111.75
	S/S Reducer 110mm x 50mm ♥	110	4S096E	5	65.70
	110mm x 82mm ♥	110	4S095E	5	60.26
	♥				

Wavin Solvent Soil

PVC-U Solvent Soil

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Expansion Cap				
	Expansion Cap – with integral ring–seal	110 160	4S416E 6S416E	5 5	14.16 35.48
Bends					
	D/SW Bend 87.5°				
	♥ ♥	110 160	4S461E 6S461E	5 1	77.47 204.10
	45°				
	♥ ♥	110 160	4S463E 6S463E	5 1	77.39 209.04
	SW/S Bend 45°				
	♥	110	4S263E	5	83.82
	11.25°				
	♥	110	4S268E	5	80.87
	SW/S Long Tail Bend – 87.5°				
	♥	110	4S260E	5	89.02
	S/S Bend 87.5°				
	♥	110	4S161E	5	78.79
Offset Bends					
	SW/S Offset Bend – 67.5° (Bottom)				
	♥	110	4S435E	5	73.53
	S/SW Offset Bend – 67.5° (Top)				
	♥	110	4S440E	5	100.87
	D/SW Offset Bend – 67.5° (Top)				
	♥	110	4S450E	5	82.06
Adjustable Bend					
	S/S Adjustable Bend – 30°				
	▲	110	4S173E	1	98.99

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Boss Socket Adaptors					
	SW/S Boss Adaptor (Solvent Weld) – for 1 1/4" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	32	2S298E	10	14.47
	SW/S Boss Adaptor (Solvent Weld) – 1 1/2" / 40mm BS EN 1329, 1455 and 1566 pipe ♥	40	2S299E	10	13.36
	SW/S Boss Adaptor (Solvent Weld) – for 2" / 50mm BS EN 1329, 1455 and 1566 pipe ♥	50	2S403E	5	15.94
Boss Adaptors					
	S/S Boss Adaptor (Ring-Seal) – for 1 1/4" / 32 plastic or copper pipe ♥	32	2S398E	5	15.56
	S/S Boss Adaptor (Ring-Seal) – for 1 1/2" / 40 plastic or copper pipe ♥	40	2S399E	5	15.56
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 plastic or copper pipe ♥	50	2S402E	5	20.06
Branches					
	D/SW Double Branch – 87.5° ♥	110	4S430E	1	274.16
	SW/S Corner Branch – 87.5° ♥	110	4S491E	1	485.21
Access Branch					
	D/SW Access Branch – 87.5° ♥	110	4S493E	1	207.86
Single Branches					
	D/SW Single Branch 45° ♥	110	4S410E	5	123.81
	SW/S Single Branch – 87.5° ♥	110	4S290E	5	109.59

Wavin Solvent Soil

PVC-U Solvent Soil

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	DW/S Single Branch – 87.5° ♥	110	4S490E	5	109.53
	D/SW Unequal Single Branch – 87.5° ♥	160	6S498E	1	268.84
	D/SW Single Branch – 87.5° (No Bosses) ♥	160	6S490E	1	348.48
	Single 5-Boss Branch D/SW Single 5 Boss Branch – 87.5° ♥	110	4S495E	5	114.00
	Soil Manifolds 6 Boss Manifold	110	4S597E	1	123.90
	Manifolds Soil Manifold System ♥	110	4S595E	1	136.23
	All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 4S595E	40	4Z124W	10	12.35
	All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 4S595E	50	2S355W	10	18.10
	All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 4S595E	50	2S356W	5	29.79
	Bossed Pipes D/SW Short Bossed Pipe – NEW	110	4S588E	5	28.32
	D/SW Bossed Pipe – plain (four boss sockets) ♥	110	4S586E	5	37.88

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Bossed Pipe – plain (four boss sockets) ♥	110	4S585E	5	37.88
	D/SW Bossed Pipe (Solvent Weld) – for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S483E	5	34.03
	– 1½" / 40mm BS EN 1329, 1455 and 1566 pipe ♥	110	4S484E	5	34.03
	Strap Boss Strap Boss ♥	110	4S319E	5	26.42
	Access Fittings D/SW Access Bend – 87.5° ♥	110	4S469E	5	195.27
	D/SW 3-Boss Access Pipe – with screwed access and three boss sockets ♥	110	4S474E	5	129.84
	SW/S 3-Boss Access Pipe – with screwed access and three boss sockets ♥	110	4S574E	5	129.84
	♥	160	6S474E ^Δ	5	294.37
	Plugs P/E Access Plug ♥	110	4S292E	1	61.60
	SW/S Access Plug ♥	110	4S492E	5	77.60
	P/E Socket Plug – with one boss socket ♥	110	4S296E	5	43.42
	Terminal Fittings Balloon Grating	110	4S302E	5	18.24

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

Wavin Solvent Soil

PVC-U Solvent Soil

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Weathering Collar	110	4S300E	5	26.98
	SW/S Vent Cowl ▽	110	4S310E	1	92.12

Wavin Solvent Soil

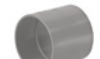
Problem Solvers

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Boss Adaptors Solvent Weld – 90° ▽	40	2CS812SE	10	17.36
	▽	50	2CS813SE	10	24.69
	Solvent Weld – Straight ▽	32	2CS814SE	10	14.47
	▽	40	2CS815SE	10	13.36
	▽	50	2CS816SE	10	15.94
	Push-fit – 90° ▽	40	2CS802SE	10	24.69
	Push-fit – Straight ▽	32	2CS804SE	10	14.87
	▽	40	2CS805SE	10	14.87
	Double Branches D/SW Double 4-Boss Branch – 87.5° ▽	110	4CS832SE	1	274.16
	SW/S Double 4-Boss Branch – 87.5° ▽	110	4CS834SE	1	274.16
	Single Branch SW/S Single 5-Boss Branch – 87.5° ▽	110	4CS895SE	5	114.00
	Bossed Pipe D/SW Short 3-Boss Pipe ▽	110	4CS588SE	1	28.32

Note: The boss adaptors listed in this section are designed to fit the 4CS895SE; 4CS834SE; 4CS588SE and are not compatible with other bossed fittings in the Wavin Solvent Soil range.

Wavin Solvent Waste

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	48.14
	♥	32	4M073E	10	48.14
	♥	32	4M073W	10	48.14
	♥	40	5M073B	10	52.52
	♥	40	5M073E	10	52.52
	♥	40	5M073W	10	52.52
	♥	50	2M073B	5	80.81
	♥	50	2M073E	10	80.81
	♥	50	2M073W	5	80.81
	Bracket				
	Pipe Bracket				
	♥	32	4M081E	40	2.01
	♥	40	5M081E	35	2.05
	♥	50	2M081E	20	4.18
	♥	32	4Z081B	30	2.03
	♥	32	4Z081G	30	2.03
	♥	32	4Z081W	30	2.03
	♥	40	5Z081B	30	2.04
	♥	40	5Z081G	30	2.04
	♥	40	5Z081W	30	2.04
	♥	50	2Z081B	20	4.18
	♥	50	2Z081G	10	4.18
	♥	50	2Z081W	10	4.18
 	Sockets				
	Double Socket				
	♥	32	4M104B	10	7.99
	♥	32	4M104E	20	7.99
	♥	32	4M104W	10	7.99
	♥	40	5M104B	10	10.06
	♥	40	5M104E	20	10.06
	♥	40	5M104W	10	10.06
	♥	50	2M104E	10	16.33
	♥	50	2M104W	5	16.33
	Expansion Socket	32	4M124E	10	16.86
	– with solvent socket tail	32	4M124W	10	16.86
		40	5M124E	10	17.62
		40	5M124W	10	17.62
		50	2M124E	5	31.48
		50	2M124W	5	31.48
	Bends				
	Knuckle Bend – 90°				
	♥	32	4M160B	30	11.93
	♥	32	4M160E	30	11.93
	♥	32	4M160W	30	11.93
	♥	40	5M160B	30	14.04
	♥	40	5M160E	30	14.04
	♥	40	5M160W	30	14.04
	♥	50	2M160B	5	25.07
	♥	50	2M160E	5	25.07
	♥	50	2M160W	5	25.07

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	14.60
	♥	32	4M161E	10	14.60
	♥	32	4M161W	10	14.60
	♥	40	5M161B	40	17.62
	♥	40	5M161E	40	17.62
	♥	40	5M161W	40	17.62
	♥	50	2M161B	5	24.49
	♥	50	2M161E	5	24.49
	♥	50	2M161W	5	24.49
	Bend – 45°				
	♥	32	4M163B	10	11.08
	♥	32	4M163E	10	11.08
	♥	32	4M163W	10	11.08
	♥	40	5M163B	20	12.44
	♥	40	5M163E	20	12.44
	♥	40	5M163W	20	12.44
	♥	50	2M163B	5	21.05
	♥	50	2M163E	5	21.05
	♥	50	2M163W	5	21.05
	Spigot Bend – 90°				
	♥	32	4M260E	5	15.39
	♥	32	4M260W	5	15.39
	♥	40	5M260E	10	18.59
	♥	40	5M260W	10	18.59
	♥	50	2M260B	5	27.64
	♥	50	2M260E	5	27.64
	♥	50	2M260W	5	27.64
	♥	50	2M260W	5	27.64
	Tees				
	Tee – 87.5°				
	♥	32	4M190B	5	19.07
	♥	32	4M190E	5	19.07
	♥	32	4M190W	5	19.07
	♥	40	5M190B	15	21.73
	♥	40	5M190E	15	21.73
	♥	40	5M190W	15	21.73
	♥	50	2M190B	5	33.86
	♥	50	2M190E	5	33.86
	♥	50	2M190W	5	33.86
	Plug				
	Access Plug				
	♥	32	4M292B	5	11.80
	♥	32	4M292E	5	11.80
	♥	32	4M292W	5	11.80
	♥	40	5M292B	5	11.59
	♥	40	5M292E	5	11.59
	♥	40	5M292W	5	11.59
	♥	50	2M292B	5	20.14
	♥	50	2M292E	5	20.14
	♥	50	2M292W	5	20.14

Wavin Solvent Waste

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	7.42
	♥	40	5M455E	10	7.42
	♥	40	5M455W	10	7.42
	2" / 50mm x 1¼" / 32mm				
	♥	50	2M458B	5	14.01
	♥	50	2M458E	5	14.01
	♥	50	2M458W	5	14.01
	2" / 50mm x 1½" / 40mm				
	♥	50	2M456B	5	14.01
	♥	50	2M456E	5	14.01
	♥	50	2M456W	5	14.01

Note: For all push-fit ranges and ancillaries, please refer to the Osma section of the price list – see pages 43-53.

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	56.80
	PE Pipe – 5.0m	40	3003465	1	26.89
		50	3003466	1	31.86
		56	3003477	1	37.51
		63	3003467	1	43.83
		75	3003468	1	50.68
		90	3003458	1	75.52
		110	3003459	1	94.66
		125	3003460	1	136.18
		160	3003461	1	212.80
		200	3003462	1	283.79
		250	3003463	1	452.06
		315	3003464	1	702.67
Reducers					
	Concentric Reducer	50/40	3084576	40	4.53
		56/50	3003820	20	4.53
		63/40	3003796 ^Δ	20	6.13
		63/50	3003797 ^Δ	20	6.13
		63/56	3003798	20	4.51
		75/50	3003800 ^Δ	20	6.64
		75/63	3003801 ^Δ	20	6.64
		90/50	3003803 ^Δ	20	6.83
		90/63	3003804 ^Δ	20	8.34
		90/75	3003805 ^Δ	20	8.34
		110/50	3003807 ^Δ	10	8.34
		110/56	3003858	10	8.27
		110/63	3003808	10	8.34
		110/75	3003809	10	8.34
		110/90	3003810	10	8.27
		125/63	3003812 ^Δ	20	13.28
		125/110	3003815	10	13.28
		160/110	3003816	5	14.74
		160/125	3003817 ^Δ	5	14.74
		200/160	3018808*	1	93.71
	Eccentric Reducer	250/200	3018809*	1	246.24
		315/250	3018810*	1	341.11
		50/40	3003821	20	4.89
		56/50	3003841	20	5.35
		63/40	3003822Q ^Δ	20	5.62
		63/50	3003823Q	20	5.62
		63/56	3003842Q	20	5.62
		75/40	3003824	20	6.45
		75/50	3003825	20	6.47
		75/56	3003843	20	6.46
		75/63	3003826	20	6.47
		90/50	3003827Q ^Δ	20	7.96
		90/63	3003828	20	8.67

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
	Eccentric Reducer – continued				
		90/75	3003829	20	8.71
		110/40	3003830	20	9.45
		110/50	3003831	20	9.22
		110/56	3003835	20	9.43
		110/63	3003832	20	9.45
		110/75	3003833	20	9.46
		110/90	3003834	20	9.42
		125/75	3003836Q ^Δ	10	15.69
		125/90	3003837Q	10	15.69
		125/110	3003838Q	10	15.69
		160/110	3003839	5	20.65
	160/125	3003840	5	20.66	
	Eccentric Reducer – Long				
		200/110	3018811	5	151.49
		200/125	3018812	1	150.07
		200/160	3018813	1	150.07
		250/200	3070632*	1	239.18
		315/200	3014918*	1	341.11
		315/250	3003856*	1	339.68
Elbows					
	Elbow 15°				
		110	3017993	20	34.14
		160	3043453 ^Δ	1	57.62
		200	3043454 ^Δ	1	66.33
		250	3043455 ^Δ	1	108.73
	Elbow 30°				
		315	3043457 ^Δ	1	155.96
		110	3003576	20	34.67
	160	3003584	5	53.00	
	Elbow 45°				
		40	3084563	10	3.70
		50	3084565	10	3.74
		56	3003597	20	4.44
		63	3003569	20	5.65
		75	3003572	20	7.15
		90	3003574	20	10.38
		110	3003577	25	10.16
		125	3003582	10	16.65
		160	3003585	5	43.27
		200	3018820	5	120.32
		250	3018821*	1	196.71
	Elbow 45° Long Tail				
		315	3018822* ^Δ	1	271.91
		110	3075824 ^Δ	6	12.50

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 88.5°	40	3084564 [†]	10	3.73
		50	3084566 [†]	10	4.97
		56	3003598	20	4.97
		63	3003570 [†]	20	6.22
		75	3003573 [†]	20	8.82
		90	3003575	20	12.58
		110	3003579 [†]	20	13.61
		125	3003583 [†]	10	21.86
		160	3003587 [†]	5	56.06
	Elbow 90° Welded	160	3003943	10	42.19
	Elbow 90° Segment Welded	200	3018818*	1	208.14
		250	3017978*	1	347.33
		315	3018819 ^{+Δ}	1	506.90
	Elbow 90° Extended	40	3084577	10	3.70
		50	3084567	10	4.41
		56	3003944	20	5.27
		63	3003601 ^Δ	20	7.78
		75	3003622	25	9.42
		90	3003602	25	12.58
		110	3003603	20	12.50
		125	3003605 ^Δ	10	22.98
	Airmix HDPE Airmix “sovent”	110	3003791 ^Δ	23	149.80
		160	4042219 ^Δ	10	511.46
	Branches Swept Branch 88.5°	110	3003792	10	20.76
	Double Branch 45°	90/50	3018005 ^Δ	10	44.83
		100/50	3003730 ^Δ	10	30.83
		110/110	3003728	5	34.36

Note: * = Segment welded, † = Swept type, 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°	40/40	3084570	20	9.08
		50/40	3084574	25	9.42
		50/50	3084572	25	9.35
		56/50	3003725Q	20	8.57
		56/56	3003724	20	8.90
		63/40	3003635Q ^Δ	20	9.54
		63/50	3003637Q	20	10.07
		63/56	3003639Q	20	6.44
		63/63	3003633	20	9.82
		75/40	3003643Q	20	12.65
		75/50	3003645Q	20	12.01
		75/56	3003649	20	10.98
		76/63	3003647Q	20	8.38
		75/75	3003641	20	10.92
		90/40	3003654Q	10	16.43
		90/50	3003656Q	10	18.78
		90/63	3003658Q ^Δ	10	22.83
		90/75	3003660Q ^Δ	10	24.53
		90/90	3003651Q ^Δ	15	22.13
		110/40	3003664 ^Δ	10	18.23
		110/50	3003666	10	18.72
		110/56	3003674	10	18.14
		110/63	3003668	10	18.72
		110/75	3003670	10	18.91
		110/90	3003672Q ^Δ	10	23.02
		110/110	3003662	15	19.02
		125/50	3003678Q	10	33.98
		125/63	3003679 ^Δ	10	24.97
		125/75	3003681Q ^Δ	10	30.85
		125/90	3003683Q ^Δ	10	34.78
		125/110	3003685	10	24.97
		125/125	3003676 ^Δ	5	25.23
		160/110	3003688	5	86.86
		160/125	3003690 ^Δ	5	86.93
		160/160	4009725	5	85.72
		200/110	3070633*	5	186.92
		200/125	3018824Q ^Δ	1	202.60
		200/160	3070634*	5	195.21
		200/200	3070630*	5	280.28
		250/110	3003705*	1	312.88
		250/125	3003707Q ^Δ	1	261.22
		250/160	3003709*	1	346.25
		250/200	3003710*	1	346.47
		250/250	3018826*	1	476.77
		315/110	3003723*	1	553.14
		315/125	3018827 ^Δ	1	409.26
		315/160	3018828*	1	552.78
		315/200	3003718*	1	578.90
		315/250	3003719*	1	586.08
		315/315	3018829*	1	699.26

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
	Branch 88.5°	40/40	3084571	20	7.39
		50/40	3084575	20	9.43
		50/50	3084573	20	9.42
		56/50	3003726	20	9.42
		56/56	3003727	20	9.38
		63/50	3003638	20	9.75
		63/63	3003634 ^Δ	20	11.57
		75/50	3003646 ^Δ	20	11.52
		75/56	3003650	20	11.52
		75/63	3003648 ^Δ	20	14.68
		75/75	3003642	20	11.57
		90/40	3003655	10	14.74
		90/50	3003657	10	14.68
		90/63	3003659 ^Δ	10	14.68
		90/75	3003661 ^Δ	10	21.53
		90/90	3003652	10	14.65
		110/40	3003665	10	17.47
		110/50	3003667	10	17.47
		110/56	3003675	10	18.05
		110/63	3003669 ^Δ	10	18.05
		110/75	3003671	10	16.84
		110/90	3003673 ^Δ	10	18.05
		110/110	3003663	15	16.89
		125/110	3003686 ^Δ	10	25.13
		125/125	3003677	10	25.13
		160/110	3003689	5	93.86
		160/125	3003691 ^Δ	5	71.74
		160/160	3003687	5	92.91
		200/110	3003698 [*]	20	186.92
		200/125	3018830 ^Δ	1	186.92
		200/160	3003702 [*]	1	186.12
		200/200	3018831 [*]	1	186.12
		250/110	3018002 [*]	1	266.00
		250/125	3018832 ^Δ	1	266.00
		250/160	3018003 [*]	1	267.70
		250/200	3018833 [*]	1	268.47
		250/250	3003704 [*]	1	267.51
		315/110	3018834 ^{*Δ}	1	312.88
		315/125	3003716 ^Δ	1	312.88
		315/160	3018835 ^{*Δ}	1	312.88
		315/200	3018836 ^{*Δ}	1	315.84
		315/250	3018837 ^{*Δ}	1	314.93
		315/315	3003713 ^{*Δ}	1	378.90
	Boss Pipe Boss Pipe – Four Way Extended Spigot	110/56	3075823	6	53.91
	Extended 3-exits branch	110/110 /56	3097151	6	85.09

Wavin HDPE

Soil, waste and vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
   	Connectors and Adaptors				
	Universal Connector ♥ ♥	40	5W102G •	5	11.35
		50	2W102G •	10	10.92
	Expansion Socket – with Solvent Socket Tail ♥	50	2Z124W •	5	20.40
	Long-Tail Bend – 87.5°	50	2Z359G •	5	23.85
	Rubber Boss Adaptor	56/32 56/40	4063088 ^Δ 4063089 ^Δ	1 1	13.43 13.61
	Brackets				
	Galvanised HDPE Bracket M10 Connection	40 50 56 63 75 90 110 125 160	4012113 4012117 4012001 ^Δ 4012121 ^Δ 4012125 4012131 4012137 4012141 4012146	10 10 1 10 10 10 10 10 10	5.42 7.48 7.67 7.85 8.16 8.76 9.59 10.05 11.19
	 Bracket Insert	40 50 56 63 75 90 110 125 160 200 250 315	4012329 4012331 4012346 ^Δ 4012333 ^Δ 4012335 4012337 4012339 4012341 ^Δ 4012343 4012345 4023375 4023376	50 50 25 50 50 50 50 50 50 20 20 20	4.96 9.95 10.19 11.93 10.19 10.48 8.12 11.04 9.12 38.93 45.80 52.22
 Galvanised HDPE Bracket	50 x ½" 56 x ½" 63 x ½" 75 x ½" 90 x ½" 110 x ½" 125 x ½" 160 x ½" 200 x 1" 250 x 1" 315 x 1"	4012118 4012002 ^Δ 4012122 4012126 4012132 4012138 4012142 4012147 4012151 4012155 4012159	10 50 10 10 10 10 10 10 10 10 10	8.71 9.54 9.54 9.62 11.02 11.13 10.98 13.61 40.57 41.12 47.88	

• OAG discount applies.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Mounting Plate	M10	4063092 ^Δ	50	7.10
	Steel Flange	1/2" 1"	4012326 4009793	50 20	7.10 8.78
Fire Collar					
Fire Collar EFM					
		40	4063766	1	25.06
		50	4063767	1	25.06
		63	4063768	1	25.06
		75/78	4063769	1	31.86
		90	4063770 ^Δ	1	31.86
		110	4026438	1	34.22
		125	4026439 ^Δ	1	35.52
		160	4063772	1	53.52
		200	4026441 ^Δ	1	174.68
		250	4026442 ^Δ	1	363.17
Spherical Branches					
Spherical Branch, 2 Stubs Type A – 180°					
		110/110	3003755	5	63.46
Type B – 90°		110/110	3003756	5	62.95
Spherical Branch, 3 Stubs Type E – 90°					
		110/110	3003776 ^Δ	5	76.62
Spherical Branch, 4 Stubs Type F – 90°					
		110/110	3003777	5	85.06
Double Branch 90°					
		160/110	3095168	1	192.35
Access Tees					
Access Tee 45°					
		110/110	3003739	5	54.08
		125	3003741 ^Δ	5	67.66
		160/110	3003743	5	133.66

**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
	Access Tee 88.5°	50	3003732 ^Δ	10	29.20
		63	3003734 ^Δ	10	37.19
		75/75	3003736	10	40.74
		90	3003738Q ^Δ	10	56.38
		110/110	3003740	10	56.06
		125	3018815Q ^Δ	10	49.66
		160/110	3070631*	5	132.55
		200/110	3017974*	1	220.45
		250/110	3017975*	1	283.27
		315/110	3017976*	1	342.15
Toilet Connectors					
	Wall Mounted Toilet Connector	90/90	3003550 ^Δ	10	34.25
		110/110	3003554 ^Δ	10	33.40
	Wall Mounted Toilet Connector Elbow 90° for hanging toilets	90/90	3003619 ^Δ	10	64.30
		110/90	3018007 ^Δ	10	64.07
		110/110	3003620 ^Δ	10	63.88
Electro-fusion Coupler					
	– Universal Type (WAVIDUO)	40	4081515	30	8.52
		50	4081516	30	8.71
		56	4081517	30	8.72
		63	4081518	30	9.00
		75	4081519	30	12.54
		90	4081520	30	12.21
		110	4081521	30	12.82
		125	4081522	10	22.68
		160	4081523	10	29.35
		200	4061068	6	217.70
		250	4064881	2	364.30
		315	4064882	2	414.56
Sockets, Caps and Flange Adaptors					
	Push-fit Socket with Gasket and Cap	40/40	3084561	10	6.25
		50/50	3084562	10	7.46
		56/56	3003493	20	8.33
		63/63	3003494 ^Δ	20	8.33
		75/75	3003495	20	11.85
		90/90	3003496 ^Δ	20	11.85
		110/110	3003497	20	15.04
		125/125	3003498 ^Δ	10	23.95
		160/160	3003499	18	47.23

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
	Expansion Socket with Gasket and Cap	40/40	3003505	20	16.49
		50/50	3003506	20	16.30
		56/56	3018008	15	15.57
		63/63	3003507	20	19.49
		75/75	3003508	20	20.70
		90/90	3003509	10	21.24
		110/110	3003510	20	21.77
		125/125	3003511 ^Δ	10	33.09
		160/160	3003512	5	60.08
		200/200	3003513*	15	278.48
		250/250	3070629	1	409.15
		315/315	3003515	1	705.74
	Complete Screw Connection	40	3003905 ^Δ	20	10.52
		50	3003935 ^Δ	20	10.52
		63	3003936 ^Δ	10	17.88
		75	3003937 ^Δ	10	17.88
		110	3003938 ^Δ	10	29.56
	Complete Closing Cap – Butt weld only	40	3003869	10	11.07
		50	3003870	10	11.24
		63	3003871 ^Δ	10	11.24
		75	3082542	10	26.28
		90	3003872 ^Δ	10	26.54
		110	3003873	10	35.75
	Extended Closing Cap – Suitable for electrofusion and butt welding	110	3094673	1	47.27
	Extended reducing closing cap – Suitable for electrofusion and butt welding	160/110	3094674	1	79.23
	Weld Cap	40	3003860	20	4.65
		50	3003861	20	3.96
		56	3003874	20	3.96
		63	3003862 ^Δ	20	3.96
		75	3003863	20	3.97
		90	3003865 ^Δ	20	5.02
		110	3003866	20	9.42
		125	3003867 ^Δ	10	11.75
		160	3003868	10	38.00
	Protection Cap for pipe & fittings	40	3018704 ^Δ	40	4.88
		50	3018705 ^Δ	40	6.36
		63	3018706 ^Δ	40	6.36
		75	3018707 ^Δ	40	7.39
		90	3018708	50	1.19
		110	3018709	40	1.33
		125	3018710 ^Δ	50	7.39

Wavin HDPE

Soil, waste and vent

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Flange Cap	110	3072765	1	170.86
		160	3043503	1	170.86
		200	3043504	1	402.14
		250	3043505	1	418.44
		315	3043506	1	614.17
	Flange Adaptor	63	4025988 ^Δ	5	54.26
		75	4025989 ^Δ	5	38.95
		110	4009748	5	43.32
		125	4009749 ^Δ	5	85.64
		160	4009750 ^Δ	5	73.76
		200	4009751 ^Δ	5	141.78
		250	4025992 ^Δ	1	244.08
		315	3018031 ^Δ	1	416.17
	Brass Nut Connection	40x¾"	3003908 ^Δ	20	12.75
		40x1"	3003910 ^Δ	20	12.75
		40x1¼"	3003912 ^Δ	20	12.75
		40x1½"	3003913 ^Δ	20	12.75
		50x¾"	3003917 ^Δ	20	30.07
		50x1¼"	3003921 ^Δ	20	30.07
		50x1½"	3003924 ^Δ	20	30.07
		50x2"	3003927 ^Δ	20	30.07
	Shrink-on Socket with Seal	63x2"	4009761 ^Δ	10	12.75
		50	3003516 ^Δ	5	45.18
		63	3018026 ^Δ	5	45.18
		75	3018027 ^Δ	5	45.18
		90	3018028 ^Δ	5	45.18
		110	3003528 ^Δ	5	54.15
		125	3018029 ^Δ	5	54.15
		160	3018030 ^Δ	5	78.85
	Accessories Electrofusion Welding Tool DUO 315 230v	50	3003516 ^Δ	5	45.18
		63	3018026 ^Δ	5	45.18
		75	3018027 ^Δ	5	45.18
		90	3018028 ^Δ	5	45.18
		110	3003528 ^Δ	5	54.15
	Electrofusion Welding Tool WaviDUO 315 110v	160	3018030 ^Δ	5	78.85
		200	3018025 ^Δ	1	94.28
	Electrofusion Welding Tool Cable 40-160 Spare, for use with 4064999	50	3003516 ^Δ	5	45.18
		63	3018026 ^Δ	5	45.18
	Electrofusion Welding Tool Cable 200-315 Spare, for use with 4064999	75	3018027 ^Δ	5	45.18
		90	3018028 ^Δ	5	45.18

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
	Welding Mirror Complete with metal case Class X1, TP200	160	4011403	1	983.91
	Heat Reflector Butt-Welding Tool Maxi 315, 90-315mm	90-315	4011402 ^A	1	35316.98
	PE Pipe Cutter	50-125	4011390	1	732.10
	HDPE Rotary Peelers for pipe 50mm	50	4042914	1	2335.57
	for pipe 63mm	63	4024493	1	2335.57
	for pipe 75mm	75	4024569	1	2794.34
	for pipe 90mm	90	4024432	1	2794.34
	for pipe 110mm	110	4024189	1	2794.34
	for pipe 125mm	125	4024393	1	2794.34
	for pipe 160mm	160	4024190	1	3253.14
	Replacement blade	–	4042915	1	241.90
	Other Processing Aids PE marker pen China Marker	–	4011453	12	21.73
	PE pipe scraper	–	4020757	10	76.18
	PE cleaner 0.7 litre bottle	–	4025509	12	44.64

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

Introduction to

Wavin Tigris – Press-Fit Plumbing System

Wavin Tigris Press-fit plumbing system 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 is the proven and perfected system for commercial plumbing and heating projects and has a number of features and benefits,

All Wavin Tigris systems offer quick, simple and safe jointing method with no hot works permit required. The system is lightweight and corrosion resistant, with high resistance to scale build-up, stress-cracking, pressure and temperature. With a thermal expansion comparable with copper, Wavin Tigris is the perfect solution for commercial projects.

Wavin Tigris K5/M5 – the fitting that will blow you away!

NEW for 2023, Wavin have launched the Tigris K5 and M5 range of fittings in 16, 20, 25, 32 and 40mm diameter. These retain all the features of the K1 system, but with lots of additional benefits.

Key Features and benefits

- **Unique acoustic leak detection, any unpressed joints make a whistling noise so you can easily locate after installation**
- **Optiflow – designed for increased flow rate with up to 50% larger inner bore**
- **Flexible, multi-layer pipe requires minimal fittings reducing installation time and cost and improving flow rates**
- **Multi jaw – can be used with most available jaws meaning no new tools needed**
- **In4Sure technology ensuring full pipe insertion**
- **Guaranteed for 25 years and WRAS approved**
- **Defined leak function to reveal unpressed fittings when air testing not possible**

The range uses the same Tigris pipe and is fully compatible with the Tigris K1 system.

All tools in the range can be used with either system.

Find out more at wavin.co.uk/tigris-press-fit

Wavin Tigris K5

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	13.50
	16mm x 2.0mm x 5m	16	3061211	25	23.11
	20mm x 2.25mm x 3m	20	3072989	18	19.34
	20mm x 2.25mm x 5m	20	3061212	18	33.24
	25mm x 2.5mm x 3m	25	3072990	10	29.44
	25mm x 2.5mm x 5m	25	3061213	10	50.44
	32mm x 3.0mm x 3m	32	3070827	6	36.86
	32mm x 3.0mm x 5m	32	3041228	6	63.24
	40mm x 4.0mm x 5m	40	3041229	4	101.98
	Pipe – Coils				
	16mm x 2.0mm x 100m	16	3018297	1	364.11
	16mm x 2.0mm x 200m	16	3018302	1	728.18
	16mm x 2.0mm x 500m	16	3061202	1	1728.22
	20mm x 2.25mm x 100m	20	3018299	1	514.81
	25mm x 2.5mm x 50m	25	3018300	1	417.52
	Pipe – Coil 9mm Pre-insulated				
	32mm x 3.0mm x 25m GREY	32	3018804	1	566.58
	Pipe – Coils 9mm Pre-insulated				
	16mm x 2.0mm x 50m RED	16	3004378	1	389.36
	20mm x 2.25mm x 50m RED	20	3004379	1	518.73
	25mm x 2.5mm x 25m RED	25	3071219	1	339.10
	16mm x 2.0mm x 50m BLUE	16	3071220	1	389.36
	20mm x 2.25mm x 50m BLUE	20	3071221	1	518.73
	25mm x 2.5mm x 25m BLUE	25	3071222	1	361.99
	Pipe – Coils 13mm Pre-insulated				
	16mm x 2.0mm x 50m RED	16	3004380	1	458.69
	20mm x 2.25mm x 50m RED	20	3004381	1	572.04
	25mm x 2.5mm x 25m RED	25	3070529	1	424.95
	16mm x 2.0mm x 50m BLUE	16	3071224	1	458.69
	20mm x 2.25mm x 50m BLUE	20	3071225	1	572.04
	25mm x 2.5mm x 25m BLUE	25	3071226	1	424.95
	Pipe – Coils 13mm Pre-insulated (Bls1,d0)				
	16mm x 2.0mm x 50m RED	16	3095142	1	458.69
	20mm x 2.25mm x 50m RED	20	3095141	1	572.04
	25mm x 2.5mm x 25m RED	25	3095140	1	424.95
	16mm x 2.0mm x 50m BLUE	16	3095680	1	458.69
	20mm x 2.25mm x 50m BLUE	20	3095682	1	572.04
	25mm x 2.5mm x 25m BLUE	25	3095681	1	424.95

Wavin Tigris K5

Press-fit plumbing system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Couplers					
	Straight Coupler	16	3079754	10	4.77
		20	3079755	10	6.22
		25	3079756	10	9.34
		32	3079757	5	16.25
		40	3079758	3	25.89
	Reducing Coupler				
	20 x 16mm	20	3079759	10	6.63
	25 x 16mm	25	3079760	10	8.57
	25 x 20mm	25	3079761	10	9.38
	32 x 20mm	32	3079762	5	15.87
	32 x 25mm	32	3079763	5	15.54
	40 x 32mm	40	3079764	3	24.92
Elbows					
	Elbow 45°	25	3079773	10	12.68
		32	3079774	5	18.42
		40	3079775	3	35.29
	Elbow 90°	16	3079768	10	5.95
		20	3079769	10	7.48
		25	3079770	10	10.62
		32	3079771	5	16.56
		40	3079772	3	32.41
	Elbow 90° – single male BSP thread				
	16mm x 1/2"	16	3079776	10	7.53
	20mm x 1/2"	20	3079777	10	9.18
	20mm x 3/4"	20	3079778	10	13.24
	25mm x 3/4"	25	3079779	10	14.76
	25mm x 1"	25	3079780	5	16.51
	32mm x 1"	32	3079781	5	26.34
	Elbow 90° – single female BSP thread				
	16mm x 1/2"	16	3079782	10	11.48
	20mm x 1/2"	20	3079783	10	14.54
	20mm x 3/4"	20	3079784	10	17.73
	25mm x 3/4"	25	3079785	10	19.83
	32mm x 1"	32	3079786	5	30.14
	Backplate Elbow – female BSP thread				
	16mm x 1/2"	16	3079854	10	15.63
	20mm x 1/2"	20	3079855	10	19.19
	20mm x 3/4"	20	3079856	10	19.83
	Toilet Tank Elbow				
	16mm x 1/2"	16	3083259	10	18.98

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Tees					
	Equal Tee	16	3079811	10	8.09
		20	3079812	10	11.57
		25	3079813	5	16.63
		32	3079814	5	28.34
		40	3079815	2	46.39
	One End Reduced Tee				
	20x20x16mm	20	3079824	10	10.60
	Double End Reduced Tee				
	16x20x16mm	20	3079821	10	10.60
	20x25x20mm	25	3079826	5	14.48
	25x32x25mm	32	3079833	5	23.36
	Branch Reduced Tee				
	20x16x20mm	20	3079823	10	10.60
	25x16x25mm	25	3079827	5	14.67
	25x20x25mm	25	3079828	5	15.97
	32x16x32mm	32	3079834	5	22.25
	32x20x32mm	32	3079835	5	23.76
	32x25x32mm	32	3079837	5	25.72
	40x25x40mm	40	3079839	2	36.21
	Branch and One End Reduced Tee				
	20x16x16mm	20	3079822	10	10.60
	25x16x16mm	25	3079829	5	13.69
	25x20x20mm	25	3079825	5	14.70
	32x25x25mm	32	3079836	5	23.43
	40x32x32mm	40	3079842	3	35.62
	One Sided Female Thread Tee				
	16mm x 1/2" x 16mm	16	3079816	10	19.52
	20mm x 1/2" x 20mm	20	3079817	10	21.77
	20mm x 3/4" x 20mm	20	3079818	10	22.63
	25mm x 1/2" x 25mm	25	3079819	5	20.24
	25mm x 3/4" x 25mm	25	3079820	5	28.13
Connectors					
	Connector – single male BSP thread				
	16mm x 1/2"	16	3079798	10	5.97
	16mm x 3/4"	16	3079799	10	6.94
	20mm x 1/2"	20	3079800	10	7.62
	20mm x 3/4"	20	3079801	10	8.43
	25mm x 3/4"	25	3079802	10	9.63
	25mm x 1"	25	3079803	10	12.53
	32mm x 1"	32	3079804	5	18.36
	32mm x 1 1/4"	32	3079805	5	27.58
	40mm x 1 1/4"	40	3079806	3	30.25

Wavin Tigris K5

Press-fit plumbing system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Connector – single female BSP thread				
	16mm x 1/2"	16	3079788	10	8.11
	16mm x 3/4"	16	3079789	5	8.26
	20mm x 1/2"	20	3079790	10	9.21
	20mm x 3/4"	20	3079791	10	11.91
	25mm x 3/4"	25	3079793	10	15.74
	32mm x 1"	32	3079796	5	26.59
	40mm x 1 1/4"	40	3079797	3	39.25
	End Cap	16	3079859	10	6.90
		20	3079860	10	7.66
		25	3079861	5	8.77

Wavin Tigris M5

Metal-body Press-fit plumbing system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Couplers					
	Straight Coupler	16	4063971	10	8.16
		20	4063972	10	10.20
		25	4063974	5	16.14
		32	4064166	5	24.47
		40	4064167	5	56.76
	Reducing Coupler				
	20 x 16mm	20	4064182	10	9.66
	25 x 20mm	25	4064185	5	14.02
	32 x 25mm	32	4064190	5	20.58
	40 x 32mm	40	4064193	5	47.70
Elbows					
	Elbow 90°	16	4064199	10	8.95
		20	4064200	10	12.06
		25	4064202	5	20.04
		32	4064204	5	30.16
		40	4064205	5	92.58
	Elbow 90° – single male BSP thread				
	16mm x 1/2"	16	4066001	10	11.93
	20mm x 1/2"	20	4066003	10	12.95
	20mm x 3/4"	20	4066004	10	17.40
	25mm x 3/4"	25	4066005	5	23.46
	Elbow 90° – single female BSP thread				
	16mm x 1/2"	16	4066009	10	12.34
	20mm x 1/2"	20	4066011	10	13.45
	20mm x 3/4"	20	4066012	10	18.19
	25mm x 3/4"	25	4066013	5	25.18
	32mm x 1"	32	4066015	5	38.43
Tees					
	Equal Tee	16	4064323	10	12.68
		20	4064324	10	18.44
		25	4064326	5	28.37
		32	4064328	5	43.37
		40	4064329	5	112.97
	Branch Reduced Tee				
	20x16x20mm	20	4064354	10	18.71
	25x16x25mm	25	4064361	5	26.96
	One Sided Female Thread Tee				
	25mm x 3/4" x 25mm	25	4066095	5	40.04
	32mm x 1" x 32mm	32	4066097	5	63.40
	40mm x 1" x 40mm	40	4066099	5	114.06

Wavin Tigris M5

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 1/2"	16	4066041	5	7.90
	16mm x 3/8"	16	4064262	10	8.75
	16mm x 3/4"	16	4066042	10	9.61
	20mm x 1/2"	20	4066043	10	12.13
	20mm x 3/4"	20	4066044	10	15.68
	20mm x 1"	20	4066045	10	27.20
	25mm x 3/4"	25	4066046	5	18.00
	25mm x 1"	25	4064271	5	21.36
	32mm x 1"	32	4064273	5	21.99
	32mm x 1 1/4"	32	4064274	5	38.31
	40mm x 1 1/4"	40	4064276	5	43.37
	Connector – single female BSP thread				
	16mm x 1/2"	16	4066028	10	9.61
	16mm x 3/4"	16	4066029	10	19.21
	20mm x 1/2"	20	4066030	10	11.43
	20mm x 3/4"	20	4066031	5	15.97
	25mm x 3/4"	25	4066033	5	18.40
	25mm x 1"	25	4066034	5	27.70
	32mm x 1"	32	4066035	5	34.08
	Tap Connector – female BSP thread				
	16mm x 1/2"	16	4066072	10	9.61
	16mm x 3/4"	16	4066074	10	9.61
	20mm x 3/4"	20	4066076	10	10.67
	25mm x 3/4"	25	4066078	5	37.01
	25mm x 1"	25	4066079	5	22.83
	32mm x 1 1/4"	32	4066082	5	33.20
	40mm x 1 1/2"	40	4064315	3	44.20
	Tap connector elbows 90° – female BSP thread				
	16mm x 1/2" DRL	16	4066067	1	21.81
	20mm x 1/2" DRL	20	4066068	10	22.25
	Wall Flange				
	16mm x 1/2"	16	4066133	10	15.56
	Elbow 90° – Radiator Connector				
	16 x 15mm – 175mm long	16	4064235	10	18.15
	16 x 15mm – 300mm long	16	4064239	10	31.21

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Manifolds					
	Two Port Valved Manifold 3/4"with valves x2 ports 1/2"		4026692	2	33.92
	Three Port Valved Manifold 3/4"with valves x3 ports 1/2"		4026693	2	47.83
	Four Port Valved Manifold 3/4"with valves x4 ports 1/2"		4026694	2	66.29
	Manifold Adaptor 16 x 1/2"	16	4026699	10	6.67
	Two Port Manifold 3/4" x2 ports 1/2"		4026689	2	28.92
	Three Port Manifold 3/4" x3 ports 1/2"		4026690	2	37.82
	Four Port Manifold 3/4" x4 ports 1/2"		4026691	2	52.28
Manifold End Caps					
	3/4" BSP Female End Cap		HX97 GY•	5	4.96
	3/4" BSP Male End Cap		HX98 GY•	5	5.75
Manifold Bracket – Pair					
	for HX92T/15, HX93T/15 and HX94T/15		HX95A GR•	5	32.60
Accessories					
	Transition Fitting to Copper				
	16 x 15mm	16	4065978	5	12.41
	20 x 15mm	20	4065979	5	13.38
	20 x 22mm	20	4065981	5	17.03
	25 x 22mm	25	4065982	5	24.87
	25 x 28mm	25	4065983	5	27.75
	32 x 28mm	32	4067485	5	24.47
	Pressure Stopper	16	4013571	1	36.19
		20	4013572	1	36.19
		25	4013573	1	36.19

• PG9 discount applies.

Wavin Tigris M5

Metal-body Press-fit plumbing system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Adaptor Fitting to Hep ₂ O				
	16 x 10mm	16	4064278	10	9.02
	16 x 15mm	16	4064277	10	9.48
	20 x 10mm	20	4064279	10	11.62
	20 x 22mm	20	4064280	10	16.95
	25 x 22mm	25	4064281	10	19.71
	25 x 28mm	25	4064282	10	25.95
	32 x 28mm	32	4064283	10	28.14
	Compression Adaptor				
	16mm x 1/2"	16	4055036	10	6.89

Wavin Tigris K1

Press-fit plumbing system

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	Pipe – Straight Lengths				
	50mm x 4.5mm x 5m	50	3004372	5	199.68
	63mm x 6.0mm x 5m	63	3028271	3	325.74
	75mm x 7.5mm x 5m	75	3053972	1	423.79
	Couplers				
	Straight Coupler				
		50	3027832	2	38.30
		63	3027847	2	101.02
		75	3065639	2	128.42
	Reducing Coupler				
	50 x 32mm	50	3027833	2	38.88
	50 x 40mm	50	3027834	2	42.81
	63 x 40mm	63	3027852	2	97.72
	63 x 50mm	63	3027850	2	102.63
	75 x 50mm	75	3065641	2	118.01
	75 x 63mm	75	3065640	2	121.38
	Elbows				
	Elbow 45°				
		50	3024668	2	55.41
		63	3027849	2	125.54
		75	3065642	2	136.78
	Elbow 90°				
		50	3024667	2	50.65
		63	3027848	2	114.15
		75	3065643	2	139.18
	Tees				
	Equal Tee				
		50	3027829	2	72.49
		63	3027853	2	136.79
		75	3065644	2	192.38
	Branch Reduced Tee				
	50 x 25 x 50mm	50	3027830	2	52.91
	50 x 32 x 50mm	50	3027842	2	55.58
	50 x 40 x 50mm	50	3027831	2	59.63
	63 x 25 x 50mm	63	3027856	2	93.00
	63 x 32 x 63mm	63	3027855	2	103.27
	63 x 40 x 63mm	63	3027854	2	122.73
	75 x 32 x 75mm	75	3065647	2	131.07
	75 x 40 x 75mm	75	3065646	2	147.97
	75 x 50 x 75mm	75	3065645	2	153.61
	Connector				
	Connector – single male BSP thread 50mm x 1 1/2"	50	3027837	2	44.47

Wavin 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				
	63mm x 2"	63	3090826	2	102.54
	75mm x 2½"	75	3090788	1	130.06
	Connector – single female BSP thread				
	50mm x 1½"	50	3090828	3	68.76
	63mm x 2"	63	3090829	2	108.25

Wavin Tigris

Press-fit plumbing system

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Accessories and Tools					
	Internal Bending Spring	16	4013553	1	43.27
		20	4013559	1	55.65
		25	4013562	1	59.61
	External Bending Spring	16	4023071	1	33.94
		20	4023073	1	37.09
		25	4023075	1	48.73
	Pipe Bending Pliers				
	Pipe Bending Tool	16	4043224	1	254.65
		20	4043225	1	272.48
	Pipe Bending Pliers 16/20/25mm	–	4023077	1	552.05
	Pipe Straightener 16/20/25mm	–	4013530	1	840.00
	Pipe Cutter 16mm-75mm	–	4053508	1	117.35
	Pipe Cutter with hold function 16/20/25mm	–	4036273	1	115.28
	Replacement Blade for 4036273	–	4037386	1	22.55
	Hand Press Tool 16-20mm	–	4013538	1	293.38
	Note: contains the tool only				
	Hand Tool Insert	16	4013542	1	100.40
		20	4013543	1	100.40
	Cordless Pressing Tool 16mm-40mm	–	4048906	1	2948.65
	Cordless Pressing Tool 16mm-75mm	–	4048907	1	4717.83
	Battery for 4048906	–	4066723	1	258.00

Wavin Tigris

Press-fit plumbing system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Battery for 4048907	–	4066725	1	501.27
	Pressing Jaws	16	4046556	1	294.87
	– for use with 4048906	20	4046557	1	294.87
		25	4046558	1	324.36
		32	4046559	1	324.36
		40	4046560	1	471.79
	Pressing Jaws	16	4046691	1	339.10
	– for use with 4048907	20	4046694	1	339.10
		25	4046695	1	353.84
		32	4046756	1	353.84
		40	4046758	1	501.27
		50	4046759	1	530.76
		63	4035779	1	781.40
	Pressing Jaws – for use with 4048907 and 4053510	75	4053509	1	560.24
	Pressing Adaptor for 75mm Jaw – for use with 4048907 and 4053509	75	4053510	1	545.51
	Calibration Mandrel	16	4999998	1	98.66
		20	4999999	1	99.97
		25	4023364	1	105.09
		32	4023365	1	112.77
	Calibration Mandrel	40	4031987	1	193.45
		50	4031988	1	188.81
		63	4035780	1	279.65
		75	4053507	1	297.24
	Calibration Mandrel 16/20/25mm	–	3021196	1	119.86
	Handgrip Calibration Mandrel	–	3011162	1	55.76
	Handgrip Calibration Mandrel	–	4036272	1	55.76
	Calibration Set 16mm-32mm	–	4013541	1	465.23

Introduction to



Wavin Hep₂O Flexible Push-fit Plumbing is the leading push-fit system with a pedigree of over 40 years and reputation for reliability.

Now Hep₂O has 2 systems to choose from –
Hep₂O Key and Hep₂O Keyless.

Both systems benefit from:

- 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.

Find out more about Hep₂O Keyless and get your sample here:



Wavin 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.

Wavin Hep₂O is also approved by **WRAS** (certificate 1901900) – deemed safe for use in the supply of drinking water.

Wavin Hep₂O Guarantee

As a result of its rigorous Quality Management programme, **Wavin 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.

Wavin Hep₂O fittings are pre-lubricated, no additional lubrication is required.

DO NOT use any flux, jointing compound or non Wavin Hep₂O lubricant on Wavin Hep₂O fittings.

Email: info@hep2o.co.uk Web: www.hep2o.co.uk

 [@hep2o](https://twitter.com/hep2o)

Wavin Hep₂O Push-fit Plumbing

Polybutylene pipe

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Plumbing Pipe				
	Coils – Barrier				
Please Note: Order pipe by unit (coil) not by metre					
	25m ♡	10	HXX25/10W	1	80.60
	50m ♡	10	HXX50/10W	1	158.76
	100m ♡	10	HXX100/10W	1	312.75
	10m ♡	15	HXX10/15W	1	37.95
	25m ♡	15	HXX25/15W	1	94.80
	50m ♡	15	HXX50/15W	1	187.64
	80m ♡	15	HXX80/15W	1	300.23
	100m ♡	15	HXX100/15W	1	369.48
	120m ♡	15	HXX120/15W	1	443.39
	10m ♡	22	HXX10/22W	1	74.05
	25m ♡	22	HXX25/22W	1	185.08
	50m ♡	22	HXX50/22W	1	366.47
	10m ♡	28	HXX10/28W	1	99.83
	25m ♡	28	HXX25/28W	1	249.56
	50m ♡	28	HXX50/28W	1	496.75
	Straight Lengths – Barrier				
	3m ♡	15	HXX03/15W	10	11.89
	3m ♡	22	HXX03/22W	10	23.23
	3m ♡	28	HXX03/28W	10	31.87
	6m ♡	15	HXX06/15W	40	24.51
	6m ♡	22	HXX06/22W	20	48.11
	6m ♡	28	HXX06/28W	12	65.60
	Pipe in Pipe System				
	Coil of Hep ₂ O Barrier Pipe in Blue or Red Conduit				
Please Note: Order pipe by unit (coil) not by metre					
	50m ♡	10	HXXC5010 BU	1	329.74
	50m ♡	10	HXXC5010 RD	1	329.74
	50m ♡	15	HXXC5015 BU	1	379.14
	50m ♡	15	HXXC5015 RD	1	379.14
	50m ♡	22	HXXC5022 BU	1	583.21
	50m ♡	22	HXXC5022 RD	1	583.21
	25m ♡	28	HXXC2528 BU	1	480.14
	25m ♡	28	HXXC2528 RD	1	480.14

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

Wavin Hep₂O Push-fit Plumbing

Demountable fittings

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Connector				
	♥ Key	10	HD1/10W	10	6.06
	♥ Key	15	HD1/15W	10	3.63
	♥ Key	22	HD1/22W	10	5.11
	♥ Key	28	HD1/28W	5	14.70
	♥ Keyless	10	KL1-10	10	6.06
	♥ Keyless	15	KL1-15	10	3.63
	♥ Keyless	22	KL1-22	10	5.11
	♥ Keyless	28	KL1-28	5	14.70
	Elbow 90°				
	♥ Key	10	HD5/10W	10	6.87
	♥ Key	15	HD5/15W	10	4.41
	♥ Key	22	HD5/22W	10	6.46
	♥ Key	28	HD5/28W	5	17.60
	♥ Keyless	10	KL5-10	10	6.87
	♥ Keyless	15	KL5-15	10	4.41
	♥ Keyless	22	KL5-22	10	6.46
	♥ Keyless	28	KL5-28	5	17.60
	Equal Tee				
	♥ Key	10	HD10/10W	10	8.49
	♥ Key	15	HD10/15W	10	6.19
	♥ Key	22	HD10/22W	10	8.49
	♥ Key	28	HD10/28W	5	24.28
	♥ Keyless	10	KL10-10	10	8.49
	♥ Keyless	15	KL10-15	10	6.19
	♥ Keyless	22	KL10-22	10	8.49
	♥ Keyless	28	KL10-28	5	24.28
	Demountable Stop-End				
	♥ Key	10	HD62/10W	10	5.38
	♥ Key	15	HD62/15W	10	4.82
	♥ Key	22	HD62/22W	10	6.06
	♥ Key	28	HD62/28W	5	10.09
	♥ Keyless	10	KL62-10	10	5.38
	♥ Keyless	15	KL62-15	10	4.82
	♥ Keyless	22	KL62-22	10	6.06
	♥ Keyless	28	KL62-28	5	10.09
	SmartSleeve Pipe Support				
	Key / Keyless	10	HX60/10W	20	0.86
	Key / Keyless	15	HX60/15W	50	0.87
	Key / Keyless	22	HX60/22W	50	1.13
	Key / Keyless	28	HX60/28W	20	1.68
	Spigot Elbow 90°				
	Single Socket				
	♥ Key	10	HD4/10W	5	6.87
	♥ Key	15	HD4/15W	5	4.64
	♥ Key	15x10	HD4A/15W	5	6.87
	♥ Key	22	HD4/22W	5	6.87

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Important Note:

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

Wavin Hep₂O Push-fit Plumbing

Demountable fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Spigot Elbow 90° Single Socket					
	♥ Keyless	10	KL4-10	5	6.87
	♥ Keyless	15	KL4-15	5	4.64
	♥ Keyless	15x10	KL4A-15	5	6.87
	♥ Keyless	22	KL4-22	5	6.87
Socket Reducer					
	15 x 10mm ♥ Key	15	HD2/15W	10	6.29
	22 x 15mm ♥ Key	22	HD2/22W	10	4.86
	28 x 22mm ♥ Key	28	HD2/28W	5	11.78
	15 x 10mm ♥ Keyless	10	KL2-15	10	6.29
	22 x 15mm ♥ Keyless	22	KL2-22	10	4.86
	28 x 22mm ♥ Keyless	28	KL2-28	5	11.78
Socket/Socket Reducer					
	15 x 10mm ♥ Key	15	HD3B/15W	10	11.43
	22 x 15mm ♥ Key	22	HD3B/22W	10	9.96
	22 x 10mm ♥ Key	22	HD3C/22W	10	11.43
	15 x 10mm ♥ Keyless	10	KL3B-15	10	11.43
	22 x 15mm ♥ Keyless	22	KL3B-22	10	9.96
	22 x 10mm ♥ Keyless	22	KL3C-22	10	11.43
Obtuse Bend 135° Single Socket					
	♥ Key	10	HD8/10W	5	7.42
	♥ Key	15	HD8/15W	5	5.15
	♥ Key	22	HD8/22W	5	7.42
	♥ Keyless	10	KL8-10	5	7.42
	♥ Keyless	15	KL8-15	5	5.15
	♥ Keyless	22	KL8-22	5	7.42
End Reduced Tee					
	22 x 15 x 22mm ♥ Key	22	HD12/22W	5	8.98
	28 x 22 x 28mm ♥ Key	28	HD12/28W	5	24.28
	22 x 15 x 22mm ♥ Keyless	22	KL12-22	5	8.98
	28 x 22 x 28mm ♥ Keyless	28	KL12-28	5	24.28
Double End Reduced Tee					
	10 x 10 x 15mm ♥ Key	15	HD18/15W	5	8.98
	10 x 10 x 22mm ♥ Key	22	HD18A/22W	5	9.50
	15 x 15 x 22mm ♥ Key	22	HD18/22W	5	8.98
	22 x 22 x 28mm ♥ Key	28	HD18/28W	5	24.28
	10 x 10 x 15mm ♥ Keyless	15	KL18-15	5	8.98
	15 x 15 x 22mm ♥ Keyless	22	KL18-22	5	8.98
	22 x 22 x 28mm ♥ Keyless	28	KL18-28	5	24.28

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Branch Reduced Tee				
	15 x 15 x 10mm ♡ Key	15	HD13/15W	5	8.98
	22 x 22 x 10mm ♡ Key	22	HD13A/22W	5	8.98
	22 x 22 x 15mm ♡ Key	22	HD13/22W	5	8.98
	28 x 28 x 15mm ♡ Key	28	HD13A/28W	5	24.28
	28 x 28 x 22mm ♡ Key	28	HD13/28W	5	24.28
	15 x 15 x 10mm ♡ Keyless	15	KL13-15	5	8.98
	22 x 22 x 10mm ♡ Keyless	22	KL13A-22	5	8.98
	22 x 22 x 15mm ♡ Keyless	22	KL13-22	5	8.98
	28 x 28 x 15mm ♡ Keyless	28	KL13A-28	5	24.28
	28 x 28 x 22mm ♡ Keyless	28	KL13-28	5	24.28
	Branch Reduced Tee – Spigot				
	15 x 15 x 10mm ♡ Key	15	HD15/15W	5	8.98
	22 x 22 x 15mm ♡ Key	22	HD15/22W	5	8.98
	15 x 15 x 10mm ♡ Keyless	15	KL15-15	5	8.98
	22 x 22 x 15mm ♡ Keyless	22	KL15-22	5	8.98
	Branch and One End Reduced Tee				
	15 x 10 x 10mm ♡ Key	15	HD14/15W	5	8.98
	22 x 10 x 10mm ♡ Key	22	HD14A/22W	5	8.98
	22 x 15 x 15mm ♡ Key	22	HD14/22W	5	8.98
	28 x 22 x 22mm ♡ Key	28	HD14/28W	5	24.28
	15 x 10 x 10mm ♡ Keyless	15	KL14-15	5	8.98
	22 x 10 x 10mm ♡ Keyless	22	KL14A-22	5	8.98
	22 x 15 x 15mm ♡ Keyless	22	KL14-22	5	8.98
	28 x 22 x 22mm ♡ Keyless	28	KL14-28	5	24.28
	Blanking Peg				
	For demountable Hep2O fittings				
	♡ Key / Keyless	10	HX44/10W	10	1.90
	♡ Key / Keyless	15	HX44/15W	10	2.21
	♡ Key / Keyless	22	HX44/22W	10	2.21
	Tank Connector				
	with BSP tail & backnut (For cold water use only)				
	BSP 1/2" Key	15	HX20/15W	5	5.25
	BSP 3/4" Key	22	HX20/22W	5	6.60
	BSP 1" (brass body) Key	28	HX20/28W	5	29.54
	BSP 1/2" Keyless	15	KL20-15	5	5.25
	BSP 3/4" Keyless	22	KL20-22	5	6.60
	BSP 1" (brass body) Keyless	28	KLB20-28	5	29.54

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Wavin Hep₂O Push-fit Plumbing

Demountable fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Tap Connector with brass nut and alternative rubber washer				
	BSP 1/2" ♡ Key	15	HD25A/15W	10	6.31
	BSP 3/4" ♡ Key	15	HD25B/15W	5	7.46
	BSP 3/4" ♡ Key	22	HD25B/22W	5	8.08
	BSP 1/2" ♡ Keyless	15	KL25A-15	10	6.31
	BSP 3/4" ♡ Keyless	15	KL25B-15	5	7.46
	BSP 3/4" ♡ Keyless	22	KL25B-22	5	8.08
	Bent Tap Connector with brass nut and alternative rubber washer				
	BSP 1/2" ♡ Key	15	HD27/15W	5	6.97
	BSP 1/2" ♡ Keyless	15	KL27-15	5	6.97
	Hand-Titan™ Tap Connector with rubber washer				
	BSP 1/2" ♡ Key	10	HD26A/10W	5	6.41
	BSP 1/2" ♡ Key	15	HD26A/15W	5	5.33
	BSP 3/4" ♡ Key	15	HD26B/15W	5	6.41
	BSP 3/4" ♡ Key	22	HD26B/22W	5	6.93
	BSP 1/2" ♡ Keyless	10	KL26A-10	5	6.41
	BSP 1/2" ♡ Keyless	15	KL26A-15	5	5.33
	BSP 3/4" ♡ Keyless	15	KL26B-15	5	6.41
	BSP 3/4" ♡ Keyless	22	KL26B-22	5	6.93

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Flexible tap connectors – braided

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep2O x BSP Nut with brass nut and rubber washer				
	150mm BSP 1/2" Key	15	HD425A/15W	2	10.55
	300mm BSP 1/2" Key	15	HD125A/15W	2	11.13
	300mm BSP 3/4" Key	15	HD125B/15W	2	13.18
	300mm BSP 3/4" Key	22	HD125B/22W	2	13.18
	500mm BSP 1/2" Key	15	HD225A/15W	2	15.26
	500mm BSP 3/4" Key	15	HD225B/15W	2	17.24
	500mm BSP 3/4" Key	22	HD225B/22W	2	18.33
	150mm BSP 1/2" Keyless	15	KL425A-15	2	10.55
	300mm BSP 1/2" Keyless	15	KL125A-15	2	11.13
	300mm BSP 3/4" Keyless	15	KL125B-15	2	13.18
	300mm BSP 3/4" Keyless	22	KL125B-22	2	13.18
	500mm BSP 1/2" Keyless	15	KL225A-15	2	15.26
	500mm BSP 3/4" Keyless	15	KL225B-15	2	17.24
	500mm BSP 3/4" Keyless	22	KL225B-22	2	18.33
	Hep2O x Hep2O				
	300mm 15mm x 15mm Key	15	HD125H/15W	2	13.08
	300mm 22mm x 22mm Key	22	HD125H/22W	2	15.99
	500mm 15mm x 15mm Key	15	HD225H/15W	2	19.16
	500mm 22mm x 22mm Key	22	HD225H/22W	2	22.13
	300mm 15mm x 15mm Keyless	15	KL125H-15	2	13.08
	300mm 22mm x 22mm Keyless	22	KL125H-22	2	15.99
	500mm 15mm x 15mm Keyless	15	KL225H-15	2	19.16
	500mm 22mm x 22mm Keyless	22	KL225H-22	2	22.13
	Hep2O x Elbow BSP Nut with brass nut and rubber washer				
	300mm Elbow BSP 1/2" Key	15	HD125D/15W	2	14.12
	300mm Elbow BSP 1/2" Keyless	15	KL125D-15	2	14.12

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Wavin Hep₂O Push-fit Plumbing

Flexible tap connectors – braided

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep₂O Brass Service Valve x BSP Nut with brass nut and rubber washer				
	300mm BSP 1/2" Key	15	HD125E/15W	2	30.25
	500mm BSP 1/2" Key	15	HD225E/15W	2	33.11
	300mm BSP 1/2" Keyless	15	KL125E-15	2	30.25
	500mm BSP 1/2" Keyless	15	KL225E-15	2	33.11
	Hep₂O Brass Service Valve (Handle) x BSP Nut with brass nut and rubber washer				
	300mm BSP 1/2" Key	15	HD125EH/15W	2	30.25
	300mm BSP 1/2" Keyless	15	KL125EH-15	2	30.25
	Hep₂O x Monobloc Mixers				
	300mm 15mm x M10 Key	15	HD125F/15W •	Pair	19.92
	300mm 15mm x M12 Key	15	HD125G/15W •	Pair	19.92
	300mm 15mm x M10 Keyless	15	KL125F-15 •	Pair	19.92
	300mm 15mm x M12 Keyless	15	KL125G-15 •	Pair	19.92

• Sold and priced as a pair.

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

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" ♡ Key	10	HX29/10W	10	10.37
	BSP 1/2" ♡ Key	15	HX29/15W	10	10.09
	BSP 3/4" ♡ Key	22	HX29/22W	10	14.50
	BSP 1" ♡ Key	28	HX29/28W	5	27.55
	BSP 1/2" ♡ Keyless	10	KLB29-10	10	10.37
	BSP 1/2" ♡ Keyless	15	KLB29-15	10	10.09
	BSP 3/4" ♡ Keyless	22	KLB29-22	10	14.50
	BSP 1" ♡ Keyless	28	KLB29-28	5	27.55
	Adaptor Female BSP/Hep ₂ O socket DZR Brass				
	BSP 1/2" ♡ Key	10	HX28/10W	10	10.37
	BSP 1/2" ♡ Key	15	HX28/15W	10	10.09
	BSP 3/4" ♡ Key	15	HX24/15W	10	14.50
	BSP 3/4" ♡ Key	22	HX28/22W	10	14.50
	BSP 1" ♡ Key	28	HX28/28W	5	28.50
	BSP 1/2" ♡ Keyless	10	KLB28-10	10	10.37
	BSP 1/2" ♡ Keyless	15	KLB28-15	10	10.09
	BSP 3/4" ♡ Keyless	15	KLB24-15	10	14.50
	BSP 3/4" ♡ Keyless	22	KLB28-22	10	14.50
	BSP 1" ♡ Keyless	28	KLB28-28	5	28.50
	Adaptor Male BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX31/15W	10	5.62
	BSP 3/4" ♡	22	HX31/22W	10	9.27
	BSP 1" ♡	28	HX31/28W	5	13.60
	Adaptor Female BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX30/15W	10	5.51
	BSP 3/4" ♡	22	HX30/22W	10	9.27
	BSP 1" ♡	28	HX30/28W	5	13.60
	Draincock Brass 15mm spigot DZR Brass ♡	15	HX32/15 GY	10	10.09
	Adaptor Converts 1/2" tap connector to 3/4" DZR Brass BSP 1/2"x 3/4" ♡		HX39 GR	10	5.23
	Wall Plate Elbow Hep ₂ O				
	BSP 1/2" ♡ Key	15	HX6/15W	5	15.57
	BSP 3/4" ♡ Key	22	HX6/22W	5	16.93
	BSP 1/2" ♡ Keyless	15	KL6-15	5	15.57
	BSP 3/4" ♡ Keyless	22	KL6-22	5	16.93

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Wavin Hep₂O Push-fit Plumbing

Auxiliary fittings

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Ball Valve Plated Brass (suitable for central heating use)				
	15x15mm Key	15	HX22/15W	5	19.94
	22x22mm Key	22	HX22/22W	5	26.03
	15x15mm Keyless	15	KLB22-15	5	19.94
	22x22mm Keyless	22	KLB22-22	5	26.03
	Gate Valve DZR Brass (suitable for central heating use)				
	15mm Key	15	HX35/15W	5	15.79
	22mm Key	22	HX35/22W	5	22.49
	15mm Keyless	15	KLB35-15	5	15.79
	22mm Keyless	22	KLB35-22	5	22.49
	Stopcock – Cold Water fitted with Hep ₂ O ends				
	15mm Key	15	HX36/15W	5	28.23
	22mm Key	22	HX36/22W	5	30.36
	Shut-off Valve With hot/cold indicator insert NB: *SEE USAGE NOTE				
	15mm Key	15	HX37/15W	5	14.11
	Appliance Valve With hot/cold indicator insert NB: *SEE USAGE NOTE				
	15mm Key	15	HX38/15W	5	13.41
	Straight Service Valve With hot/cold indicator insert NB: *SEE USAGE NOTE				
	15mm Key	15	HX18/15W	5	15.53
	Angled Service Valve With hot/cold indicator insert NB: *SEE USAGE NOTE				
	15mm Key	15	HX19/15W	5	16.24

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

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Two Port Manifold 22x15mm ports Closed Spigot ♡ Key	22	HX88/22W	5	12.11
	22x15mm ports Closed Spigot ♡ Keyless	22	KL88-22	5	12.11
	Two Port Manifold 22x15mm ports All socket ♡ Key	22	HX88B/22W	5	12.52
	22x15mm ports All socket ♡ Keyless	22	KL88B-22	5	12.52
	Three Port Manifold 22x15mm ports Closed spigot ♡ Key	22	HX89/22W	5	16.26
	22x15mm ports Closed spigot ♡ Keyless	22	KL89-22	5	16.26
	Three Port Manifold 22x15mm ports All socket ♡ Key	22	HX89B/22W	5	16.86
	22x15mm ports All socket ♡ Keyless	22	KL89B-22	5	16.86
	Two Port Manifold 22x10mm ports All socket ♡ Key	22	HX92B/22W	5	13.24
	22x10mm ports All socket ♡ Keyless	22	KL92B-22	5	13.24
	Four Port Manifold 22x10mm ports All socket ♡ Key	22	HX94B/22W	5	16.86
	22x10mm ports All socket ♡ Keyless	22	KL94B-22	5	16.86

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Wavin Hep₂O Push-fit Plumbing

Auxiliary fittings

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Two Port Manifold 22x10mm ports Socket and closed spigot ♡ Key	22	HX92/22W	5	12.11
	22x10mm ports Socket and closed spigot ♡ Keyless	22	KL92-22	5	12.11
	Four Port Manifold 22x10mm ports Socket and closed spigot ♡ Key	22	HX94/22W	5	16.26
	22x10mm ports Socket and closed spigot ♡ Keyless	22	KL94-22	5	16.26
	Four Port Manifold 22x10mm ports Socket and closed spigot, on one side ♡ Key	22	HX96/22W	5	18.59
	22x10mm ports Socket and closed spigot, on one side ♡ Keyless	22	KL96-22	5	18.59
	Four Port Manifold 22x10mm ports All socket, on one side ♡ Key	22	HX96B/22W	5	18.59
	22x10mm ports All socket, on one side ♡ Keyless	22	KL96B-22	5	18.59
	One Port Valved Manifold Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡ Key	22	HX91T/22W	1	33.87
	Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡ Keyless	22	KLB91T-22	1	33.87
	Two Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Key	15	HX92T/15W	1	56.88
	Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Keyless	15	KLB92T-15	1	56.88

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
 Three Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Key		15	HX93T/15W	1	83.42
	 Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Keyless	15	KLB93T-15	1	83.42
 Four Port Valved Manifold Plated Brass 3/4" BSP male/female. 15mm Hep ₂ O ports ♡ Key		15	HX94T/15W	1	113.89
	 Plated Brass 3/4" BSP male/female. 15mm Hep ₂ O ports ♡ Keyless	15	KLB94T-15	1	113.89
 Manifold End Caps 3/4" BSP Female End Cap 3/4" BSP Male End Cap			HX97 GY HX98 GY	5 5	4.96 5.75
	 Manifold Bracket – Pair for HX92T/15, HX93T/15 and HX94T/15		HX95A GR	1	32.60
 Radiator Outlet Back Box Plastic (for stud wall)			HX109 GY	5	5.25
 Radiator Outlet Back Box Metal (for solid wall)			HX110 GY	5	4.40
 Radiator Outlet Cover with Flap For use with HX109 and HX110			HX113 WH	5	11.52
 Back Box Grommet For use with HX110			HX112 GY	50	0.29

NEW – Keyless fittings are highlighted in blue + **BOLD** Cat Nos.

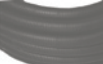
Wavin Hep₂O Push-fit Plumbing

Tools, fixings and accessories

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	HepKey Plus Demounting Tool	10	HX79/10W	10	0.55
		15	HX79/15W	10	0.63
		22	HX79/22W	10	0.63
		28	HX79/28W	10	0.71
	HepKey Demounting Tool	10	HX78/10W	10	0.49
		15	HX78/15W	10	0.55
		22	HX78/22W	10	0.55
		28	HX78/28W	10	0.62
	HepTool Demounting Tool	10/28mm	HX77/10W	10	3.32
		15/22mm	HX77/15W	10	2.72
	Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	3.38
		22	HX75/22 GR	5	4.76
	Pipe Cutter – Scissor Type Standard		HD74 GR	1	28.04
	Pro Cutter		HD75 GR	1	69.12
	Pipe Cutter – Ratchet Type up to 28mm pipe		HD78 GR	1	70.70
	Hep₂O Joint Test Kit Hep ₂ O Joint Test Kit		HX81 GR	1	810.47
	Pipe Clips – Screw	15	HX85/15W	50	0.52
		22	HX85/22W	50	0.52
		28	HX85/28W	50	0.87
	Pipe Clip – Spacers	15	HX86/15W	20	0.39
		22	HX86/22W	20	0.52
	Pipe Clip Cable Type	10	HX65/10W	50	0.33
		15	HX65/15W	50	0.52
		22	HX65/22W	50	0.52
		28	HX65/28W	50	0.63

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep₂O Silicone Lubricant Spray 400ml aerosol can Hep ₂ O fittings		HX200	1	19.28
	Flat Tap Connector Washers – Rubber	15	HX58/15 GY	20	p/pack 7.41
		22	HX58/22 GY	20	p/pack 7.41
	Conical Tap Connector Washers – Rubber	15	HX57/15 GR	20	p/pack 7.41
		22	HX57/22 GR	20	p/pack 7.41

Conduit system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Conduit Pipe 25.0m	15	HXC25/15 BL	1	58.93
	50.0m	15	HXC50/15 BL	1	117.95
	25.0m	22	HXC25/22 BL	1	73.74
	50.0m	22	HXC50/22 BL	1	146.70
	Conduit Junction Box		HX100 BL	1	9.78
	Conduit Junction Box Lid		HX104 BL	1	3.28
	Conduit Terminal	15	HX101/15W	2	13.61
	Terminal Back Plate		HX103 BL	1	2.72

Introduction to

Wavin Indoor Climate Solutions

Wavin Indoor Climate Solutions (ICS) provides a comprehensive range of solutions to create a healthier and more comfortable indoor environment. We offer a range of compatible products including underfloor heating, mechanical ventilation, heat interface units, and control systems for maximum usability and efficiency.

Wavin Calefa heat interface units provide 4-option bypass control, setting new standards for domestic hot water and heating, delivering on responsiveness, efficiency, and ease of installation.

Wavin Comfia provides a wide range of underfloor heating systems for new and existing floors. Our systems are easy to install and come with marketing leading guarantees.

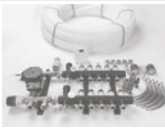
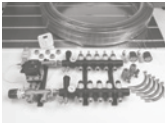
Wavin Ventiza joins premium quality heat exchangers with extremely low power consumption, providing a range of solutions that matches performance to property size for maximum efficiency.

Wavin Sentio delivers optimum comfort and energy efficient methods to controlling the indoor climate of domestic and commercial buildings with a single control system to operate all Wavin ICS solutions.

Find out more at wavin.co.uk

Wavin Indoor Climate Solutions

UFH – Comfia Packs

	Description	Cat no	Pack qty	Price £ per piece
	Pack type 1 – UFHC1			
	Single zone, screeded low temp with dial stat			
	12m ²	UFHC1-12	1	292.69
	15m ²	UFHC1-15	1	309.62
	20m ²	UFHC1-20	1	384.42
	30m ²	UFHC1-30	1	401.35
	Pack type 2 – UFHC2			
	Single zone, screeded high temp with dial stat			
	15m ²	UFHC2-15	1	639.44
	20m ²	UFHC2-20	1	656.38
	30m ²	UFHC2-30	1	731.18
	40m ²	UFHC2-40	1	748.11
	Pack type 6 – UFHC6			
	Multi zone, screeded, low temp with wireless controls			
	40m ² – 2 zone	UFHC6-40	1	1044.99
	60m ² – 3 zone	UFHC6-60	1	1423.52
	80m ² – 4 zone	UFHC6-80	1	1783.67
	Pack type 8 – UFHC8			
	Retrofit 18mm low build board, 1 zone, high/low temp with dial stat			
	12m ²	UFHC8-12	1	1001.61
	15m ²	UFHC8-15	1	1131.50
	20m ²	UFHC8-20	1	1300.70
	30m ²	UFHC8-30	1	1769.03

Wavin Indoor Climate Solutions

UFH – Polybutylene pipe

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Polybutylene UFH pipe				
	Coils				
	Please Note: Order pipe by unit (coil) not by metre				
	25m	10	10CS025	1	33.62
	50m	10	10CS050	1	56.36
	100m	10	10CS100	1	106.43
	50m	12	12CS050	1	78.55
	80m	12	12CS080	1	123.80
	100m	12	12CS100	1	154.75
	50m	16	16CS050	1	92.18
	80m	16	16CS080	1	151.56
	100m	16	16CS100	1	188.32
	120m	16	16CS120	1	219.13
	150m	16	16CS150	1	271.74
	200m	16	16CS200	1	376.64
	500m	16	16CS500	1	895.59
	100m	20	20CS100	1	230.13
	120m	20	20CS120	1	294.32
	140m	20	20CS140	1	343.37
	160m	20	20CS160	1	392.39
180m	20	20CS180	1	441.44	
200m	20	20CS200	1	490.51	

UFH – PE-RT 5 layer pipe

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	PE-RT 5 layer UFH pipe				
	Coils				
	Please Note: Order pipe by unit (coil) not by metre				
	100m	12	12CS910	1	38.26
	200m	12	12CS920	1	73.81
	600m	12	12CS960	1	239.24
	120m	16	16CS913	1	71.24
	240m	16	16CS925	1	151.40
	480m	16	16CS914	1	536.92
	600m	16	16CS916	1	672.41
600m – Red	16	16CS920	1	218.54	
600m	20	20CS600	1	591.20	

UFH – Floor fixings and accessories

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Staple System Staples 60mm for 16mm and 20mm Pipe	16/20	30CS301	300	0.07
	Staples 40mm for 16mm and 20mm Pipe	16/20	30CS307	600	70.66
	Staple Gun for 60mm staples		30CS305	1	336.27
	Clip Rail Universal Clip Rail for 16mm and 20mm pipe	16/20	30CS302	1	3.20
	System Plate 25mm System Plate for 16mm pipe	16	16CS303	18	12.29
	18mm System Plate for 12mm pipe	12	12CS303	16	9.65
	System Plate Tack Fastener		30CS306	25	0.40
	Edge Expansion Foam Edge Expansion Foam (25m x 150mm)		30CS304	1	27.64
	Bend Former Cold Formed Metal Bend for 12mm pipe	12	12CS300	5	1.41
	for 16mm pipe	16	16CS300	5	1.41
	for 20mm pipe	20	20CS300	5	2.80
	for 16mm pipe (plastic)	16	4028869	1	0.87
	Border Insulation UFH Border Insulation (50m x 150mm)		30CS308	1	45.12

Wavin Indoor Climate Solutions

UFH – Manifolds

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Composite Manifold				
	Pre-Built Modular Manifolds				
	2 Port		30CS502	1	160.67
	3 Port		30CS503	1	182.73
	4 Port		30CS504	1	213.56
	5 Port		30CS505	1	243.05
	6 Port		30CS506	1	268.18
	7 Port		30CS507	1	298.11
	8 Port		30CS508	1	328.56
	9 Port		30CS509	1	357.35
	10 Port		30CS510	1	387.74
	11 Port		30CS511	1	418.14
	12 Port		30CS512	1	440.67
	Composite Manifold 22mm Isolation Valves Pair	22	30CS513	2	37.98
	Composite Manifold 1" BSP Isolation Valves Pair	22	30CS554	2	41.89
	Composite Manifold Control Pack A Rated		30CS515	1	279.58
	Composite Manifold Flow Watch Thermostat		30CS516	1	24.57
	Temperature Pressure Gauge		30CS521	1	18.91
	Manifold Euroconus Adaptor for 12mm pipe	12	12CS501	2	5.38
	for 16mm pipe	16	16CS501	2	6.12
	for 16mm pipe (nickel plated)	16	16CS506	2	5.80
	for 20mm pipe	20	20CS501	2	6.85
	UFH pipe connector 3/4" x 3/4"		16CS505	50	3.89

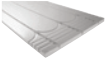
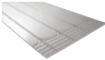
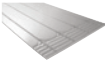
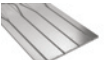
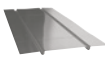
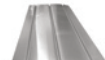
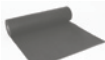
UFH – Manifolds

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Stainless Steel Manifold					
	Stainless Manifold*				
	2 port	25	30CS532	1	123.01
	3 port	25	30CS533	1	146.01
	4 port	25	30CS534	1	170.70
	5 port	25	30CS535	1	200.27
	6 port	25	30CS536	1	220.05
	7 port	25	30CS537	1	243.57
	8 port	25	30CS538	1	284.08
	9 port	25	30CS539	1	312.83
	10 port	25	30CS540	1	341.09
	11 port	25	30CS541	1	375.99
	12 port	25	30CS542	1	396.35
Stainless Steel Manifold Ancillaries					
	Stainless Steel Isolating Valves				
	1" Pair	25	30CS530	1	39.21
	Thermometer for Ball Valves		30CS543	1	4.57
	Coupling 1" Female – Female Stainless Pair	25	30CS545	1	28.03
	Actuator Adaptor Pair		30CS547	1	1.06

*Each stainless steel manifold requires the correct quantity of actuator adaptors (30CS547) and euroconus adaptors (12CS501, 16CS501 or 20CS501) depending on the actuator size and pipe being used.

Wavin Indoor Climate Solutions

UFH – Flooring Systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Warmdeck UFH Panels					
	Structural Chipboard 22mm 2.4 x 0.6m 150mm centres for 16mm pipe	16	25CS348	1	86.20
	Low-Build 25mm 1.25 x 0.6m 150mm centres for 16mm pipe, foil-faced	16	16CS309	1	27.30
	Low-Build 18mm 1.2 x 0.6m 150mm centres for 12mm pipe, foil-faced	12	12CS310	1	34.73
	for 12mm pipe, glass-fibre mesh	12	12CS311	1	34.73
	Low-Build 15mm 1.2 x 0.6m 150mm centres for 10mm pipe, plain	10	10CS310	1	25.56
	for 10mm pipe, glass-fibre mesh	10	10CS311	1	26.54
	Highway Panel Low Build 18mm 1.2 x 0.6m 40mm centres for 12mm pipe, foil-faced	12	25CS350	1	38.29
	Cover panel 6mm cementious 2.4 x 1.2m for 12mm pipe, foil-faced		25CS349	1	24.75
	Low-Build Panel Adhesive 12L = <46m²		12CS319	1	275.76
UFH – Foiled Panels					
	FF Panel Foiled 30mm 1250 x 600mm	16	16CS312	1	30.43
UFH – Plain XPS Panels					
	Plain XPS Panel 25mm 1250 x 600mm		25CS309	1	10.55
UFH – Diffuser Plates					
	Double Diffuser Plate for 16mm pipe	16	16CS307	10	13.59
	for 20mm pipe	20	20CS307	10	13.59
	Triple Diffuser Plate for 16mm pipe	16	16CS308	10	17.20
Acoustic Roll					
	Rubber Acoustic Roll 3mm 15m x 1m		25CS321	1	203.07

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Cementitious Panel				
	Cementitious Panel 18mm 1200 x 600mm		25CS331	1	50.36
	20mm 1200 x 600mm		25CS332	1	58.98
	Floor Panel Adhesive 1L		25CS334	1	48.50

Wavin Indoor Climate Solutions

UFH – Control Systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Sentio Controls					
	Sentio Thermostats				
	Wired		35CS400	1	98.57
	Wireless		35CS403	1	101.65
	Wireless with Infra-Red Floor Sensor		35CS402	1	129.17
	Sentio Sensors				
	Wired		35CS401	1	67.06
	Wireless		35CS404	1	77.67
	Sentio Control Centre 8 Zone Control Centre		35CS405	1	232.97
	Sentio Extension Unit 8 Way Extension Unit for use with 35CS405		35CS406	1	88.25
	Sentio Touch Screen LCD Touch Screen		35CS407	1	143.36
	Sentio Thermostat Frame		35CS408	1	7.26
	Sentio Smart Radiator Thermostat including M28 and M30 adaptors		35CS411	1	99.68
Sentio Ancillaries					
	Sentio VFR Extension Unit		35CS409	1	101.65
	Sentio Strap On Pipe Sensor		35CS410	1	17.45
	Sentio Actuator Adaptor		35CS412	1	3.48
	Sentio Wired Outdoor Sensor		35CS413	1	61.65
	Sentio USB Converter Cable		35CS414	1	83.60

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Whisper Controls					
	KF600 8-Way Wiring Centre 230V		35CS500	1	90.38
	Tamperproof		35CS502	1	37.82
	ST-300 Programmable Thermostat 230V		35CS503	1	44.49
	MU-600 Wifi Thermostat 230V		35CS504	1	62.29
	MU-050 Touchscreen Wifi Stat		35CS511	1	63.77
	TP-200 floor sensor for programmable stats		35CS505	1	7.42
	Remote sensor dial stat		35CS506	1	7.42
	Flush Sensor		35CS507	1	14.83
	TC-140 1 Channel Timeswitch		35CS508	1	41.52
	TC-140 2 Channel Timeswitch		35CS509	1	44.49
	TC-140 3 Channel Timeswitch		35CS510	1	51.91

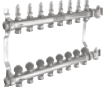
Wavin Indoor Climate Solutions

UFH – Control Systems

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Ancillaries					
	24V Actuator for use with Sentio controls		35CS499	1	22.70
	230V Actuator for use with 230V controls		35CS498	1	22.70
Heatmiser Controls					
	Heatmiser Single Zone Control Centre		35CS480	1	74.38
	Heatmiser 8 Zone Wireless Control Centre for use with 35CS482/3		35CS481	1	236.53
	Heatmiser NeoAir V2 Wireless Thermostat (white)		35CS482	1	132.61
	Heatmiser NeoAir V2 Wireless Thermostat (black)		35CS483	1	132.61
	Heatmiser Mains 8 Zone Control Centre for use with 35CS482/3		35CS484	1	130.12
	Heatmiser DS1-L-V2 Dial Thermostat (white)		35CS485	1	40.83
	Heatmiser neoStat 230v (white)		35CS486	1	132.60
	Heatmiser neoStat 230v (black)		35CS487	1	111.59
	Heatmiser Mains Controls - neoHub		35CS488	1	274.14
	Heatmiser Mains Sensor Probe Cover		35CS489	1	11.73
	Sensor Probe Remote/Floor Sensor Probe		35CS490	1	11.73

Wavin Indoor Climate Solutions

UFH – Prison Specific Materials

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Manifolds					
	Manifold Euroconus Adaptor for 20mm pipe	20	20CS501	2	6.85
	for 16mm pipe	16	16CS501	2	6.12
	for 12mm pipe	12	12CS501	2	5.38
	for 10mm pipe	10	10CS501	2	9.03
	UFH pipe connector 3/4" x 3/4"		16CS505	50	3.89
	Pressure gauge 0-10 bar 3/8" dia 50mm		30CS523	1	8.87
Composite Manifold					
	Pre-Built Modular Manifolds				
	2 Port		30CS502	1	160.67
	3 Port		30CS503	1	182.73
	4 Port		30CS504	1	213.56
	5 Port		30CS505	1	243.05
	6 Port		30CS506	1	268.18
	7 Port		30CS507	1	298.11
	8 Port		30CS508	1	328.56
	9 Port		30CS509	1	357.35
	10 Port		30CS510	1	387.74
	11 Port		30CS511	1	418.14
	12 Port		30CS512	1	440.67
Stainless Steel Manifold					
	Stainless Manifold*				
	2 port	25	30CS532	1	123.01
	3 port	25	30CS533	1	146.01
	4 port	25	30CS534	1	170.70
	5 port	25	30CS535	1	200.27
	6 port	25	30CS536	1	220.05
	7 port	25	30CS537	1	243.57
	8 port	25	30CS538	1	284.08
	9 port	25	30CS539	1	312.83
	10 port	25	30CS540	1	341.09
	11 port	25	30CS541	1	375.99
	12 port	25	30CS542	1	396.35
Stainless Steel Manifold Ancillaries					
	Stainless Steel Isolating Valves 1"				
	Pair	25	30CS530	1	39.21
	Thermometer for Ball Valves		30CS543	1	4.57
	Thermometer with Spring		30CS544	1	4.37
	Coupling 1" Female – Female Stainless Pair	25	30CS545	1	28.03

Wavin Indoor Climate Solutions

UFH – Prison Specific Materials

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Auto Airvent with Non Return Stainless		30CS546	1	4.68
	Actuator Adaptor Pair		30CS547	1	1.06
Manifold Cabinets					
	Surface mounted				
	2-4 port standard manifolds		30CS548	1	80.93
	5-8 port standard manifolds		30CS549	1	87.74
	9-12 port standard manifolds		30CS550	1	97.13
	In-wall mounted				
	2-4 port standard manifolds		30CS551	1	89.61
	5-8 port standard manifolds		30CS552	1	95.53
	9-12 port standard manifolds		30CS553	1	102.19

UFH – 270728 District Heating

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Calefa Calefa V with Danfoss Heat Meter		40CS600	1	2745.50
	Calefa Flushing Bypass		40CS601	1	159.44
	Calefa Frame Top Entry Kit 4 up, 2 bottom, 6 pipe		40CS602	1	497.11
	Calefa II V 26/26 V HIU Heat Interface Unit		40CS605	1	1764.25
	Calefa II V 40/26 V HIU Heat Interface Unit		40CS606	1	1792.56
	Calefa II V 60/40 V HIU Heat Interface Unit		40CS607	1	1874.54
	Calefa II V ITC 26/26 V HIU Heat Interface Unit		40CS608	1	1798.95
	Calefa II V ITC 40/26 V HIU Heat Interface Unit		40CS609	1	1827.26

Wavin Indoor Climate Solutions

UFH – 270728 District Heating

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Calefa II V ITC 60/40 V HIU Heat Interface Unit		40CS610	1	1909.24
	Optima Compact DN15 N/N 5.0mm 1500 l/h		40CS650	1	70.83
	Fast Acting Actuator incl. Delpi Socket		40CS668	1	123.06
	Optima Compact DN15 N/N 4mm High		40CS652	1	70.83
	Non Return Valve OV20/DN20		40CS655	1	1.87
	Safety Valve Type K(M)15 1/2" PN2.5		40CS658	1	6.60
	Temp. Sensor Clamp NTC 10K B3977 3%60		40CS659	1	3.50
	Temp. Sensor NTC B3977 ±0.2°70° 1/8"		40CS660	1	8.50
	Temp. Sensor NTC 10K B3977 3%60 1/8"		40CS661	1	3.70
	Safety Valve Type KB20 3/4" PN10		40CS662	1	11.80
	Wavin Heat Exchanger WH30-40m		40CS663	1	193.57

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Ball Valve 3/4" F/F		40CS664	1	11.10
	Capillary Sensor 20-70°C f/ext. Instal.		40CS665	1	27.45
	Expansion Vessel 8L Calefa		40CS666	1	38.02

Wavin Indoor Climate Solutions

UFH – Manifold Cabinets

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Surface mounted				
	2-4 port standard manifolds		30CS548	1	80.93
	5-8 port standard manifolds		30CS549	1	87.74
	9-12 port standard manifolds		30CS550	1	97.13
	In-wall mounted				
	2-4 port standard manifolds		30CS551	1	89.61
	5-8 port standard manifolds		30CS552	1	95.53
	9-12 port standard manifolds		30CS553	1	102.19

Numerical index

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
OT003B	26.45	5	OT033G	15.12	6	OT086W	67.14	6
OT003G	26.45	5	OT033N	15.12	6	OT088AG	125.32	6
OT003N	26.45	5	OT033W	15.12	6	OT088B	125.32	6
OT003W	26.45	5	OT034AG	10.53	6	OT088G	125.32	6
OT004B	34.60	5	OT034B	10.53	6	OT088N	125.32	6
OT004G	34.60	5	OT034G	10.53	6	OT088W	125.32	6
OT004N	34.60	5	OT034N	10.53	6	OT092B	31.76	7
OT004W	34.60	5	OT034W	10.53	6	OT116B	3.41	8
OT005B	13.83	4	OT035AG	52.50	8	OT116G	3.41	8
OT005G	13.83	4	OT035B	52.50	8	OT116N	3.41	8
OT005N	13.83	4	OT035G	52.50	8	OT116W	3.41	8
OT005W	13.83	4	OT035N	52.50	8	OT143B	35.10	7
OT007B	34.40	4	OT035W	52.50	8	OT147G	40.06	20
OT007G	34.40	4	OT037AG	17.47	8	OT147G	40.06	18
OT007N	34.40	4	OT037B	17.47	8	OT147G	40.06	16
OT007W	34.40	4	OT037G	17.47	8	OT147G	40.06	14
OT008B	31.01	5	OT037N	17.47	8	OT147G	40.06	10
OT009B	18.48	4	OT037W	17.47	8	OT147G	40.06	6
OT009G	18.48	4	OT038AG	12.35	7	OT148G	37.00	6
OT009N	18.48	4	OT038B	12.35	7	OT148G	37.00	10
OT009W	18.48	4	OT038G	12.35	7	OT148G	37.00	14
OT010B	8.86	4	OT038N	12.35	7	OT148G	37.00	16
OT010G	8.86	4	OT038W	12.35	7	OT148G	37.00	18
OT010N	8.86	4	OT044B	7.49	19	OT148G	37.00	20
OT010W	8.86	4	OT044B	7.49	17	OT149B	33.61	11
OT011B	11.41	5	OT044B	7.49	15	OT149B	33.61	7
OT011G	11.41	5	OT044B	7.49	13	OT161AG	31.12	8
OT011N	11.41	5	OT044B	7.49	9	OT161B	31.12	8
OT011W	11.41	5	OT044B	7.49	4	OT161G	31.12	8
OT014B	53.12	5	OT045B	17.30	4	OT161N	31.12	8
OT015B	53.12	5	OT045B	17.30	9	OT161W	31.12	8
OT016B	36.46	5	OT045B	17.30	15	OT245B	34.14	6
OT019B	6.10	4	OT045B	17.30	17	OT246B	34.14	6
OT019G	6.10	4	OT060B	4.68	8	OT274AG	94.76	8
OT019N	6.10	4	OT061B	4.68	8	OT274B	94.76	8
OT019W	6.10	4	OT064G	4.68	8	OT274G	94.76	8
OT024AG	12.87	7	OT072B	42.81	4	OT274N	94.76	8
OT024B	12.87	7	OT072G	42.81	4	OT274W	94.76	8
OT024G	12.87	7	OT072N	42.81	4	OT332AG	70.49	8
OT024N	12.87	7	OT072W	42.81	4	OT332B	70.49	8
OT024W	12.87	7	OT074B	85.14	4	OT332G	70.49	8
OT025AG	16.14	7	OT074G	85.14	4	OT332N	70.49	8
OT025B	16.14	7	OT074N	85.14	4	OT332W	70.49	8
OT025G	16.14	7	OT074W	85.14	4	OT624B	27.95	4
OT025N	16.14	7	OT082B	48.01	6	OT624G	27.95	4
OT025W	16.14	7	OT082G	48.01	6	OT624N	27.95	4
OT026AG	20.06	7	OT082N	48.01	6	OT624W	27.95	4
OT026B	20.06	7	OT084AG	95.96	6	OT625B	42.61	4
OT026G	20.06	7	OT084B	95.96	6	OT745B	33.58	5
OT026N	20.06	7	OT084G	95.96	6	OT746B	36.34	5
OT026W	20.06	7	OT084N	95.96	6	OT914B	26.17	5
OT027B	25.04	8	OT084W	95.96	6	OT914G	26.17	5
OT030B	5.89	7	OT086AG	67.14	6	OT914N	26.17	5
OT031B	5.02	7	OT086B	67.14	6	OT914W	26.17	5
OT033AG	15.12	6	OT086G	67.14	6	OT985B	18.61	19
OT033B	15.12	6	OT086N	67.14	6	OT985B	18.61	17

Numerical index

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
OT985B	18.61	16	2CS812SE	17.36	65	2S399B	15.56	27
OT985B	18.61	14	2CS813SE	24.69	65	2S399E	15.56	61
OT985B	18.61	10	2CS814SE	14.47	65	2S399G	15.56	27
OT985B	18.61	5	2CS815SE	13.36	65	2S399W	15.56	27
OT986B	27.96	5	2CS816SE	15.94	65	2S402B	20.06	27
OT986B	27.96	10	2M073B	80.81	66	2S402E	20.06	61
OT986B	27.96	14	2M073E	80.81	66	2S402G	20.06	27
OT986B	27.96	16	2M073W	80.81	66	2S402W	20.06	27
OT986B	27.96	17	2M081E	4.18	66	2S403B	15.94	33
OT986B	27.96	19	2M104E	16.33	66	2S403E	15.94	61
OT988B	15.53	5	2M104W	16.33	66	2S403G	15.94	33
OT988B	15.53	10	2M124E	31.48	66	2S403W	15.94	33
OT988B	15.53	14	2M124W	31.48	66	2S498B	17.26	48
OT988B	15.53	16	2M160B	25.07	66	2S499B	17.26	48
OT988B	15.53	17	2M160E	25.07	66	2S503B	18.02	48
OT988B	15.53	19	2M160W	25.07	66	2V414G	237.15	48
OT989B	20.84	5	2M161B	24.49	67	2V418G	38.61	48
OT989B	20.84	10	2M161E	24.49	67	2V502G	207.62	48
OT989B	20.84	14	2M161W	24.49	67	2W073G	40.15	43
OT989B	20.84	16	2M163B	21.05	67	2W073W	40.15	43
OT989B	20.84	17	2M163E	21.05	67	2W081G	2.99	43
OT989B	20.84	19	2M163W	21.05	67	2W081W	2.99	43
OT999	144.15	5	2M190B	33.86	67	2W086G	10.49	45
1C074W	18.08	50	2M190E	33.86	67	2W086W	10.49	45
1C104W	6.01	50	2M190W	33.86	67	2W088G	9.38	45
1C139W	10.94	50	2M260B	27.64	67	2W088W	9.38	45
1C160W	5.84	50	2M260E	27.64	67	2W102G	10.92	44
1C163W	7.15	50	2M260W	27.64	67	2W102G	10.92	41
1C190W	8.38	50	2M292B	20.14	67	2W102G*	10.92	74
1C344W	9.01	50	2M292E	20.14	67	2W105G	10.74	43
1C344W	9.01	45	2M292W	20.14	67	2W105W	10.74	43
1C346W	9.01	45	2M456B	14.01	68	2W160G	10.74	43
1C346W	9.01	50	2M456E	14.01	68	2W160W	10.74	43
1E073W	15.26	50	2M456W	14.01	68	2W163G	11.35	43
1E082W	2.18	50	2M458B	14.01	68	2W163W	11.35	43
1E104W	6.25	50	2M458E	14.01	68	2W190G	10.49	44
1E129W	9.74	50	2M458W	14.01	68	2W190W	10.49	44
1E139W	10.87	50	2S298B	14.47	33	2W260W	10.49	44
1E156W	9.06	51	2S298E	14.47	61	2W292G	10.74	44
1E160W	6.47	50	2S298G	14.47	33	2W292W	10.74	44
1E163W	7.42	50	2S298W	14.47	33	2Z073B	48.13	39
1E166W	7.42	50	2S299B	13.36	33	2Z073W	48.13	39
1E190W	8.00	50	2S299E	13.36	61	2Z074G	64.16	39
1E344B	9.01	42	2S299G	13.36	33	2Z081B	4.18	66
1E344B	9.01	50	2S299W	13.36	33	2Z081B	4.18	39
1E344W	9.01	42	2S355W	18.10	62	2Z081G	4.18	39
1E344W	9.01	50	2S355W	18.10	25	2Z081G	4.18	66
1E346B	9.01	42	2S355W*	18.10	57	2Z081W	4.18	39
1E346B	9.01	50	2S356W	29.79	25	2Z081W	4.18	66
1E346W	9.01	42	2S356W	29.79	62	2Z086B	9.85	42
1E346W	9.01	50	2S356W*	29.79	57	2Z086G	9.85	42
1O158W	6.01	51	2S360G	22.08	27	2Z086W	9.85	42
1O159W	7.15	51	2S398B	15.56	26	2Z088B	10.08	42
2CS802SE	24.69	65	2S398E	15.56	61	2Z088G	10.08	42
2CS804SE	14.87	65	2S398G	15.56	26	2Z088W	10.08	42
2CS805SE	14.87	65	2S398W	15.56	26	2Z104B	11.74	39

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2Z104G	11.74	39	3S292B	65.82	34	4S044G	198.11	21
2Z104W	11.74	39	3S292B	65.82	29	4S044W	198.11	21
2Z124W	20.40	39	3S292G	65.82	29	4S050G	132.43	21
2Z124W*	20.40	74	3S292G	65.82	34	4S073B	141.27	30
2Z128W	20.89	41	3S300B	27.33	37	4S073B	141.27	21
2Z160B	14.11	39	3S300G	28.93	37	4S073E	141.27	59
2Z160G	14.11	39	3S302B	23.96	37	4S073G	141.27	21
2Z160W	14.11	39	3S302G	23.96	37	4S073G	141.27	30
2Z161B	14.95	40	3S319B	31.50	28	4S073W	141.27	21
2Z161G	14.95	40	3S319G	31.50	28	4S073W	141.27	30
2Z161W	14.95	40	3S414G	231.80	37	4S074B	188.33	21
2Z163B	15.31	40	3S435G	70.50	24	4S074B	188.33	30
2Z163G	15.31	40	3S440B	83.19	25	4S074E	188.33	59
2Z163W	15.31	40	3S440G	83.19	25	4S074G	188.33	21
2Z190B	20.61	40	3S530B	185.38	37	4S074G	188.33	30
2Z190G	20.61	40	3S649B	64.58	27	4S074W	188.33	21
2Z190W	20.61	40	3S649G	64.58	27	4S074W	188.33	30
2Z210B	26.69	41	4A830W	9.95	48	4S082B	13.00	30
2Z210G	26.69	41	4CS588SE	28.32	65	4S082B	13.00	21
2Z210W	26.69	41	4CS832SE	274.16	65	4S082E	13.00	59
2Z230W	48.80	41	4CS834SE	274.16	65	4S082G	13.00	21
2Z260B	12.80	40	4CS895SE	114.00	65	4S082G	13.00	30
2Z260G	12.80	40	4M073B	48.14	66	4S082W	13.00	21
2Z260W	12.80	40	4M073E	48.14	66	4S082W	13.00	30
2Z292B	15.13	41	4M073W	48.14	66	4S083B	17.32	30
2Z292G	15.13	41	4M081E	2.01	66	4S083B	17.32	21
2Z292W	15.13	41	4M104B	7.99	66	4S083E	17.32	59
2Z347G	13.13	42	4M104E	7.99	66	4S083G	17.32	21
2Z349G	12.43	42	4M104W	7.99	66	4S083G	17.32	30
2Z359G	23.85	40	4M124E	16.86	66	4S083W	17.32	21
2Z359G*	23.85	74	4M124W	16.86	66	4S083W	17.32	30
3S043B	169.17	21	4M160B	11.93	66	4S084	37.54	21
3S043G	169.17	21	4M160E	11.93	66	4S084	37.54	30
3S074G	220.65	21	4M160W	11.93	66	4S085	251.03	30
3S082B	15.20	21	4M161B	14.60	67	4S085	251.03	22
3S082G	15.20	21	4M161E	14.60	67	4S086	121.97	30
3S083B	20.22	21	4M161W	14.60	67	4S086	121.97	22
3S083G	20.22	21	4M163B	11.08	67	4S095B	60.26	31
3S094B	69.83	23	4M163E	11.08	67	4S095B	60.26	23
3S094G	69.83	23	4M163W	11.08	67	4S095E	60.26	59
3S105B	57.16	22	4M190B	19.07	67	4S095G	60.26	23
3S105G	57.16	22	4M190E	19.07	67	4S095G	60.26	31
3S116B	3.96	29	4M190W	19.07	67	4S096B	65.70	23
3S116G	3.96	29	4M260E	15.39	67	4S096E	65.70	59
3S124B	33.33	22	4M260W	15.39	67	4S096G	65.70	23
3S124G	33.33	22	4M292B	11.80	67	4S097G	69.21	23
3S161B	67.66	23	4M292E	11.80	67	4S098G	69.21	23
3S161G	67.66	23	4M292W	11.80	67	4S104B	28.57	22
3S163B	67.66	24	4S042B	111.70	21	4S104B	28.57	30
3S163G	67.66	24	4S042G	111.70	21	4S104E	28.57	59
3S190B	120.44	25	4S043B	146.84	21	4S104G	28.57	22
3S190G	120.44	25	4S043E	146.84	59	4S104G	28.57	30
3S210G	120.44	26	4S043G	146.84	21	4S104W	28.57	22
3S274B	132.97	28	4S043W	146.84	21	4S104W	28.57	30
3S274G	132.97	28	4S044B	198.11	21	4S105B	61.71	30
3S288B	88.55	37	4S044E	203.00	59	4S105B	61.71	22

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4S105E	61.71	59	4S200B	161.32	26	4S300E	26.98	64
4S105G	61.71	22	4S200G	161.32	26	4S300G	25.50	37
4S105G	61.71	30	4S205B	53.18	22	4S300W	25.50	37
4S105W	61.71	22	4S205G	53.18	22	4S302B	18.24	37
4S105W	61.71	30	4S205W	53.18	22	4S302E	18.24	63
4S106G	84.10	22	4S206B	91.39	23	4S302G	18.24	37
4S107E	51.76	59	4S206B	91.39	31	4S302W	18.24	37
4S116B	12.77	29	4S210B	165.33	26	4S303W	138.04	42
4S116G	12.77	29	4S210G	165.33	26	4S303W	138.04	37
4S116W	12.77	29	4S220B	161.32	26	4S303W	138.04	45
4S120W	34.03	35	4S220G	161.32	26	4S304W	311.96	37
4S121W	36.30	35	4S230B	278.12	26	4S306G	202.58	37
4S124B	29.76	31	4S230G	278.12	26	4S308B	222.71	37
4S124B	29.76	22	4S230W	278.12	26	4S310B	92.12	37
4S124E	29.76	59	4S250G	346.71	26	4S310E	92.12	64
4S124G	29.76	22	4S260B	89.02	32	4S310G	92.12	37
4S124G	29.76	31	4S260E	89.02	60	4S310W	92.12	37
4S124W	29.76	22	4S260G	89.02	32	4S319B	26.42	34
4S124W	29.76	31	4S263B	83.82	31	4S319B	26.42	28
4S125B	45.20	31	4S263E	83.82	60	4S319E	26.42	63
4S125B	45.20	22	4S263G	83.82	31	4S319G	26.42	28
4S125E	45.20	59	4S268B	80.87	32	4S319G	26.42	34
4S125G	45.20	22	4S268E	80.87	60	4S319W	26.42	28
4S125G	45.20	31	4S268G	80.87	32	4S319W	26.42	34
4S130G	9.20	29	4S274B	133.41	29	4S321B	32.51	28
4S149	26.75	11	4S274G	133.41	29	4S321G	32.51	28
4S149	26.75	7	4S274W	133.41	29	4S321W	32.51	28
4S159	28.51	7	4S275B	72.58	34	4S322B	32.51	28
4S159	28.51	12	4S275B	72.58	29	4S322G	32.51	28
4S160B	87.52	23	4S275G	72.58	29	4S322W	32.51	28
4S160G	87.52	23	4S275G	72.58	34	4S326B	155.97	18
4S160W	87.52	23	4S281G	248.11	37	4S326B	155.97	20
4S161B	78.79	23	4S283G	238.98	37	4S326B	155.97	37
4S161E	78.79	60	4S288B	132.16	37	4S326G	155.97	20
4S161G	78.79	23	4S288G	132.16	37	4S326G	155.97	37
4S161W	78.79	23	4S290B	109.59	32	4S361G	77.56	23
4S162G	113.09	24	4S290E	109.59	61	4S363B	77.56	24
4S163B	78.79	24	4S290G	109.59	32	4S363G	77.56	24
4S163G	78.79	24	4S291G	437.81	26	4S363W	77.56	24
4S163W	78.79	24	4S292B	61.60	29	4S369G	213.00	28
4S164B	112.21	24	4S292B	61.60	34	4S374G	135.44	29
4S164G	112.21	24	4S292E	61.60	63	4S380G	32.78	38
4S166G	87.25	24	4S292G	61.60	29	4S383G	37.98	38
4S167G	100.41	24	4S292G	61.60	34	4S384G	51.13	38
4S169B	185.37	28	4S292W	61.60	29	4S385G	111.30	38
4S169G	185.37	28	4S292W	61.60	34	4S391G	42.66	38
4S169W	185.37	28	4S296B	43.42	34	4S392	74.29	38
4S173E	98.99	60	4S296B	43.42	29	4S394G	53.87	38
4S173G	98.99	24	4S296E	43.42	63	4S395G	125.02	26
4S179G	111.93	24	4S296G	43.42	29	4S410B	123.81	32
4S190B	111.22	25	4S296G	43.42	34	4S410E	123.81	61
4S190G	111.22	25	4S296W	43.42	29	4S410G	123.81	32
4S190W	111.22	25	4S296W	43.42	34	4S414G	257.16	37
4S195B	144.16	25	4S298	30.21	23	4S416B	14.16	31
4S195G	144.16	25	4S299	34.77	23	4S416E	14.16	60
4S195W	144.16	25	4S300B	25.50	37	4S416G	14.16	31

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4S430B	274.16	32	4S495E	114.00	62	4S613W	392.61	35
4S430E	274.16	61	4S495G	114.00	32	4S614W	392.61	35
4S430G	274.16	32	4S496B	59.27	31	4S615W	392.61	35
4S435B	73.53	24	4S496E	59.27	59	4S616W	392.61	35
4S435B	73.53	32	4S496G	59.27	31	4S711W	70.73	35
4S435E	73.53	60	4S502B	251.03	28	4S771W	101.20	35
4S435G	73.53	24	4S502G	251.03	28	4S772W	87.83	35
4S435G	73.53	32	4S561B	98.28	24	4S790W	100.87	36
4S435W	73.53	24	4S561G	98.28	24	4S791W	59.65	35
4S435W	73.53	32	4S561W	98.28	24	4T731B	14.46	11
4S440B	100.87	25	4S574B	129.84	34	4T731W	14.46	11
4S440E	100.87	60	4S574E	129.84	63	4T803B	28.90	9
4S440G	100.87	25	4S574G	129.84	34	4T803N	28.90	9
4S440W	100.87	25	4S581B	84.52	27	4T803W	28.90	9
4S444B	100.87	25	4S581G	84.52	27	4T804B	40.13	10
4S444G	100.87	25	4S582B	67.70	27	4T804N	40.13	10
4S444W	100.87	25	4S582G	67.70	27	4T804W	40.13	10
4S445B	112.21	25	4S583B	32.84	27	4T805B	17.93	9
4S445G	112.21	25	4S583G	32.84	27	4T805N	17.93	9
4S445W	112.21	25	4S583W	32.84	27	4T805W	17.93	9
4S450B	82.06	32	4S584B	28.54	27	4T806B	29.80	9
4S450E	82.06	60	4S584G	28.54	27	4T806N	29.80	9
4S450G	82.06	32	4S584W	28.54	27	4T806W	29.80	9
4S461B	77.47	31	4S585B	37.88	33	4T807B	31.59	9
4S461E	77.47	60	4S585E	37.88	63	4T807N	31.59	9
4S461G	77.47	31	4S585G	37.88	33	4T807W	31.59	9
4S461W	77.47	31	4S586B	37.88	33	4T809B	28.61	9
4S462B	83.82	31	4S586E	37.88	62	4T809N	28.61	9
4S462G	83.82	31	4S586G	37.88	33	4T809W	28.61	9
4S463B	77.39	31	4S588B	28.32	27	4T810B	11.44	9
4S463E	77.39	60	4S588B	28.32	33	4T810N	11.44	9
4S463G	77.39	31	4S588E	28.32	62	4T810W	11.44	9
4S469B	195.27	34	4S588G	28.32	27	4T811B	13.20	9
4S469E	195.27	63	4S588G	28.32	33	4T811N	13.20	9
4S469G	195.27	34	4S588W	28.32	27	4T811W	13.20	9
4S474B	129.84	34	4S588W	28.32	33	4T816B	4.20	12
4S474E	129.84	63	4S589B	46.05	27	4T816N	4.20	12
4S474G	129.84	34	4S589G	46.05	27	4T816W	4.20	12
4S483B	34.03	33	4S589W	46.05	27	4T818B	48.49	10
4S483E	34.03	63	4S590B	54.88	28	4T818W	48.49	10
4S483G	34.03	33	4S590B	54.88	34	4T819B	7.72	9
4S484B	34.03	33	4S590G	54.88	28	4T819N	7.72	9
4S484E	34.03	63	4S590G	54.88	34	4T819W	7.72	9
4S484G	34.03	33	4S595E	136.23	62	4T823B	27.19	11
4S490B	109.53	32	4S595G	136.23	25	4T823N	27.19	11
4S490E	109.53	62	4S597E	123.90	62	4T823W	27.19	11
4S490G	109.53	32	4S597G	123.90	25	4T824B	30.03	11
4S491B	485.21	33	4S597G	123.90	32	4T824N	30.03	11
4S491E	485.21	61	4S600W	63.40	36	4T824W	30.03	11
4S491G	485.21	33	4S601W	392.61	35	4T825B	17.22	12
4S492B	77.60	34	4S602W	392.61	35	4T825N	17.22	12
4S492E	77.60	63	4S603W	392.61	35	4T825W	17.22	12
4S492G	77.60	34	4S604W	392.61	35	4T826B	21.36	12
4S493B	207.86	34	4S605W	392.61	35	4T826N	21.36	12
4S493E	207.86	61	4S606W	392.61	35	4T826W	21.36	12
4S495B	114.00	32	4S612W	392.61	35	4T830B	89.04	12

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4T830N	89.04	12	4V814W	54.76	46	4Z128W	15.85	41
4T830W	89.04	12	4V816W	54.76	46	4Z160B	7.62	39
4T832B	25.51	12	4V825W	52.40	47	4Z160G	7.62	39
4T832N	25.51	12	4W073B	20.63	43	4Z160W	7.62	39
4T832W	25.51	12	4W073G	20.63	43	4Z161B	8.01	40
4T833B	10.22	11	4W073W	20.63	43	4Z161G	8.01	40
4T833N	10.22	11	4W081B	1.82	43	4Z161W	8.01	40
4T833W	10.22	11	4W081G	1.82	43	4Z163B	7.17	40
4T834B	8.70	11	4W081W	1.82	43	4Z163G	7.17	40
4T834N	8.70	11	4W102B	11.35	41	4Z163W	7.17	40
4T834W	8.70	11	4W102B	11.35	44	4Z185W	19.97	41
4T835B	70.59	12	4W102G	11.35	41	4Z190B	9.50	40
4T835N	70.59	12	4W102G	11.35	44	4Z190G	9.50	40
4T835W	70.59	12	4W102W	11.35	41	4Z190W	9.50	40
4T836B	24.64	11	4W102W	11.35	44	4Z210W	15.04	41
4T836W	24.64	11	4W105B	5.94	43	4Z260B	10.39	40
4T837B	30.73	11	4W105G	5.94	43	4Z260G	10.39	40
4T837W	30.73	11	4W105W	5.94	43	4Z260W	10.39	40
4T838B	34.55	12	4W160B	5.50	43	4Z263B	6.10	40
4T838N	34.55	12	4W160G	5.50	43	4Z263W	6.10	40
4T838W	34.55	12	4W160W	5.50	43	4Z292B	8.13	41
4T860G	4.70	12	4W161B	5.94	43	4Z292G	8.13	41
4T861G	4.60	12	4W161G	5.94	43	4Z292W	8.13	41
4T862B	36.75	12	4W161W	5.94	43	4Z343G	6.87	49
4T862N	36.75	12	4W163B	5.94	43	4Z343G	6.87	42
4T862W	36.75	12	4W163G	5.94	43	4Z363W	12.31	41
4T864B	4.50	12	4W163W	5.94	43	4Z364W	8.00	41
4T872B	45.41	9	4W166B	5.50	44	5A830W	10.67	48
4T872N	45.41	9	4W166W	5.50	44	5M073B	52.52	66
4T872W	45.41	9	4W190B	6.34	44	5M073E	52.52	66
4T874B	90.87	9	4W190G	6.34	44	5M073W	52.52	66
4T874N	90.87	9	4W190W	6.34	44	5M081E	2.05	66
4T874W	90.87	9	4W260B	6.34	44	5M104B	10.06	66
4T882B	48.41	11	4W260G	6.34	44	5M104E	10.06	66
4T882N	48.41	11	4W260W	6.34	44	5M104W	10.06	66
4T882W	48.41	11	4W292B	5.94	44	5M124E	17.62	66
4T884B	99.17	11	4W292G	5.94	44	5M124W	17.62	66
4T884N	99.17	11	4W292W	5.94	44	5M160B	14.04	66
4T884W	99.17	11	4Z073B	30.38	39	5M160E	14.04	66
4T886B	68.41	11	4Z073W	30.38	39	5M160W	14.04	66
4T886N	68.41	11	4Z074G	40.49	39	5M161B	17.62	67
4T886W	68.41	11	4Z081B	2.03	39	5M161E	17.62	67
4T888B	136.43	11	4Z081B	2.03	66	5M161W	17.62	67
4T888N	136.43	11	4Z081G	2.03	39	5M163B	12.44	67
4T888W	136.43	11	4Z081G	2.03	66	5M163E	12.44	67
4T894B	32.18	10	4Z081W	2.03	39	5M163W	12.44	67
4T999	150.54	10	4Z081W	2.03	66	5M190B	21.73	67
4V801W	31.46	46	4Z104B	5.72	39	5M190E	21.73	67
4V803W	38.49	46	4Z104G	5.72	39	5M190W	21.73	67
4V804W	59.03	46	4Z104W	5.72	39	5M260E	18.59	67
4V806W	34.19	47	4Z120W	8.33	41	5M260W	18.59	67
4V807W	46.69	46	4Z124G	12.35	39	5M292B	11.59	67
4V808W	59.34	46	4Z124W	12.35	25	5M292E	11.59	67
4V809W	32.99	46	4Z124W	12.35	39	5M292W	11.59	67
4V811W	28.02	47	4Z124W	12.35	62	5M455B	7.42	68
4V812W	41.09	46	4Z124W*	12.35	57	5M455E	7.42	68

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5M455W	7.42	68	5W105G	6.34	43	5Z190W	10.01	40
5T503B	43.76	17	5W105W	6.34	43	5Z210B	18.29	41
5T504B	49.86	17	5W160B	5.51	43	5Z210G	18.29	41
5T508B	39.10	17	5W160G	5.51	43	5Z210W	18.29	41
5T509B	26.18	17	5W160W	5.51	43	5Z230W	32.23	41
5T510B	12.72	17	5W161B	5.94	43	5Z260B	10.08	40
5T511B	19.17	17	5W161G	5.94	43	5Z260G	10.08	40
5T516B	4.49	18	5W161W	5.94	43	5Z260W	10.08	40
5T519B	9.56	17	5W163B	5.50	43	5Z263B	7.08	40
5T564B	5.09	18	5W163G	5.50	43	5Z263G	7.08	40
5T574B	131.28	17	5W163W	5.50	43	5Z263W	7.08	40
5T594B	42.10	17	5W166B	5.50	44	5Z292B	8.55	41
5T595B	45.41	18	5W166G	5.50	44	5Z292G	8.55	41
5T596B	48.05	18	5W166W	5.50	44	5Z292W	8.55	41
5V407W	82.28	48	5W185B	7.06	44	5Z344G	7.08	42
5V407W	82.28	49	5W190B	5.51	44	5Z363W	12.31	41
5V468W	94.37	49	5W190G	5.51	44	5Z364W	9.01	41
5V801W	35.78	46	5W190W	5.51	44	5Z455B	5.38	42
5V802W	41.85	47	5W260B	6.34	44	5Z455G	5.38	42
5V803W	57.66	46	5W260G	6.34	44	5Z455W	5.38	42
5V805W	63.14	46	5W260W	6.34	44	6S043E	560.43	59
5V806W	28.37	47	5W292B	5.50	44	6S043G	546.92	21
5V807W	54.37	46	5W292G	5.50	44	6S044G	711.64	21
5V808W	71.16	46	5W292W	5.50	44	6S074B	658.87	21
5V809W	43.82	46	5Z073B	37.52	39	6S074B	658.87	30
5V811W	30.42	47	5Z073W	37.52	39	6S074E	658.87	59
5V812W	50.27	46	5Z074G	49.95	39	6S074G	658.87	21
5V814W	69.13	46	5Z081B	2.04	39	6S074G	658.87	30
5V816W	69.14	46	5Z081B	2.04	66	6S082B	47.67	21
5V823W	68.95	47	5Z081G	2.04	39	6S082B	47.67	30
5V842W	58.27	47	5Z081G	2.04	66	6S082E	47.67	59
5V846W	53.09	47	5Z081W	2.04	39	6S082G	47.67	21
5V848W	133.51	47	5Z081W	2.04	66	6S082G	47.67	30
5V860W	117.27	47	5Z085B	7.17	42	6S084	79.19	21
5V864W	63.39	48	5Z085G	7.17	42	6S084	79.19	30
5V869W	93.04	48	5Z085W	7.17	42	6S099G	154.27	23
5V870W	54.20	48	5Z104B	5.88	39	6S104B	69.24	22
5V871W	25.64	48	5Z104G	5.88	39	6S104B	69.24	30
5V901W	40.62	46	5Z104W	5.88	39	6S104E	69.24	59
5W073B	23.88	43	5Z120W	8.33	41	6S104G	69.24	22
5W073G	23.88	43	5Z124G	11.74	39	6S104G	69.24	30
5W073W	23.88	43	5Z124W	11.74	58	6S105E	173.86	59
5W081B	1.72	43	5Z124W	11.74	39	6S105G	173.86	22
5W081G	1.72	43	5Z128W	16.76	41	6S105G	173.86	30
5W081W	1.72	43	5Z160B	9.01	39	6S124B	101.85	22
5W084B	5.50	45	5Z160G	9.01	39	6S124B	101.85	31
5W084G	5.50	45	5Z160W	9.01	39	6S124E	101.85	59
5W084W	5.50	45	5Z161B	9.57	40	6S124G	101.85	22
5W102B	11.35	41	5Z161G	9.57	40	6S124G	101.85	31
5W102B	11.35	44	5Z161W	9.57	40	6S130G	16.33	29
5W102G	11.35	41	5Z163B	8.01	40	6S161G	266.82	23
5W102G	11.35	44	5Z163G	8.01	40	6S163G	266.82	24
5W102G*	11.35	74	5Z163W	8.01	40	6S190G	481.89	25
5W102W	11.35	41	5Z185W	20.69	41	6S198G	371.39	26
5W102W	11.35	44	5Z190B	10.01	40	6S210G	481.89	26
5W105B	6.34	43	5Z190G	10.01	40	6S218G	371.39	26

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6S238G	656.32	26	8T809B	26.38	13	9T911N	13.38	15
6S274G	361.38	29	8T809W	26.38	13	9T911W	13.38	15
6S292B	134.71	29	8T816B	3.96	14	9T916AG	3.66	16
6S292B	134.71	34	8T816W	3.96	14	9T916B	3.66	16
6S292G	134.71	29	8T819B	9.79	13	9T916G	3.66	16
6S292G	134.71	34	8T819W	9.79	13	9T916N	3.66	16
6S302G	68.41	37	8T840B	14.83	13	9T916W	3.66	16
6S323G	64.02	28	8T840W	14.83	13	9T919AG	7.59	15
6S416E	35.48	60	8T841B	20.74	13	9T919B	7.59	15
6S440G	298.17	25	8T841W	20.74	13	9T919G	7.59	15
6S461B	204.10	31	8T843B	38.81	13	9T919N	7.59	15
6S461E	204.10	60	8T843W	38.81	13	9T919W	7.59	15
6S461G	204.10	31	8T844B	40.83	14	9T964B	3.59	16
6S463B	209.04	31	8T844W	40.83	14	9T974AG	99.59	15
6S463E	209.04	60	8T849B	13.02	13	9T974B	99.59	15
6S463G	209.04	31	8T849W	13.02	13	9T974G	99.59	15
6S474B	294.37	34	8T850B	14.83	13	9T974N	99.59	15
6S474E ^Δ	294.37	63	8T850W	14.83	13	9T974W	99.59	15
6S474G	294.37	34	8T851B	20.74	13	9T994AG	35.24	16
6S490B	348.48	32	8T851W	20.74	13	9T994B	35.24	16
6S490E	348.48	62	8T853B	34.54	13	9T994G	35.24	16
6S490G	348.48	32	8T853W	34.54	13	10CS025	33.62	110
6S498B	268.84	32	8T854B	40.83	14	10CS050	56.36	110
6S498E	268.84	62	8T854W	40.83	14	10CS100	106.43	110
6S498G	268.84	32	8T864B	3.76	14	10CS310	25.56	114
6S499B	111.75	31	8T874B	123.29	13	10CS311	26.54	114
6S499E	111.75	59	8T874W	123.29	13	10CS501	9.03	119
6S499G	111.75	31	8T894B	38.69	14	12CS050	78.55	110
6T603B	135.72	19	9T903AG	34.60	16	12CS080	123.80	110
6T603G	135.72	19	9T903B	34.60	16	12CS100	154.75	110
6T606B	96.63	19	9T903G	34.60	16	12CS300	1.41	111
6T606G	96.63	19	9T903N	34.60	16	12CS303	9.65	111
6T609B	70.37	19	9T903W	34.60	16	12CS310	34.73	114
6T609G	70.37	19	9T904AG	39.64	16	12CS311	34.73	114
6T610B	16.56	19	9T904B	39.64	16	12CS319	275.76	114
6T610G	16.56	19	9T904G	39.64	16	12CS501	5.38	119
6T611B	47.94	19	9T904N	39.64	16	12CS501	5.38	112
6T611G	47.94	19	9T904W	39.64	16	12CS910	38.26	110
6T616B	5.03	20	9T906AG	26.74	15	12CS920	73.81	110
6T616G	5.03	20	9T906B	26.74	15	12CS960	239.24	110
6T619B	24.64	19	9T906G	26.74	15	16CS050	92.18	110
6T619G	24.64	19	9T906N	26.74	15	16CS080	151.56	110
6T664B	5.48	20	9T906W	26.74	15	16CS100	188.32	110
6T674B	264.73	19	9T909AG	21.76	15	16CS120	219.13	110
6T674G	264.73	19	9T909B	21.76	15	16CS150	271.74	110
6T694B	53.37	19	9T909G	21.76	15	16CS200	376.64	110
6T694G	53.37	19	9T909N	21.76	15	16CS300	1.41	111
6T695B	49.82	19	9T909W	21.76	15	16CS303	12.29	111
6T696B	52.71	19	9T910AG	9.50	15	16CS307	13.59	114
6T999	243.24	19	9T910B	9.50	15	16CS308	17.20	114
8T806B	35.20	13	9T910G	9.50	15	16CS309	27.30	114
8T806W	35.20	13	9T910N	9.50	15	16CS312	30.43	114
8T807B	32.62	13	9T910W	9.50	15	16CS500	895.59	110
8T807W	32.62	13	9T911AG	13.38	15	16CS501	6.12	119
8T808B	32.62	13	9T911B	13.38	15	16CS501	6.12	112
8T808W	32.62	13	9T911G	13.38	15	16CS505	3.89	112

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16CS505	3.89	119	30CS515	279.58	112	35CS407	143.36	116
16CS506	5.80	112	30CS516	24.57	112	35CS408	7.26	116
16CS913	71.24	110	30CS521	18.91	112	35CS409	101.65	116
16CS914	536.92	110	30CS523	8.87	119	35CS410	17.45	116
16CS916	672.41	110	30CS530	39.21	119	35CS411	99.68	116
16CS920	218.54	110	30CS530	39.21	113	35CS412	3.48	116
16CS925	151.40	110	30CS532	123.01	113	35CS413	61.65	116
20CS100	230.13	110	30CS532	123.01	119	35CS414	83.60	116
20CS120	294.32	110	30CS533	146.01	113	35CS480	74.38	118
20CS140	343.37	110	30CS533	146.01	119	35CS481	236.53	118
20CS160	392.39	110	30CS534	170.70	113	35CS482	132.61	118
20CS180	441.44	110	30CS534	170.70	119	35CS483	132.61	118
20CS200	490.51	110	30CS535	200.27	113	35CS484	130.12	118
20CS300	2.80	111	30CS535	200.27	119	35CS485	40.83	118
20CS307	13.59	114	30CS536	220.05	113	35CS486	132.60	118
20CS501	6.85	119	30CS536	220.05	119	35CS487	111.59	118
20CS501	6.85	112	30CS537	243.57	113	35CS488	274.14	118
20CS600	591.20	110	30CS537	243.57	119	35CS489	11.73	118
25CS309	10.55	114	30CS538	284.08	113	35CS490	11.73	118
25CS321	203.07	114	30CS538	284.08	119	35CS498	22.70	118
25CS331	50.36	115	30CS539	312.83	113	35CS499	22.70	118
25CS332	58.98	115	30CS539	312.83	119	35CS500	90.38	117
25CS334	48.50	115	30CS540	341.09	113	35CS502	37.82	117
25CS348	86.20	114	30CS540	341.09	119	35CS503	44.49	117
25CS349	24.75	114	30CS541	375.99	113	35CS504	62.29	117
25CS350	38.29	114	30CS541	375.99	119	35CS505	7.42	117
30CS301	0.07	111	30CS542	396.35	113	35CS506	7.42	117
30CS302	3.20	111	30CS542	396.35	119	35CS507	14.83	117
30CS304	27.64	111	30CS543	4.57	113	35CS508	41.52	117
30CS305	336.27	111	30CS543	4.57	119	35CS509	44.49	117
30CS306	0.40	111	30CS544	4.37	119	35CS510	51.91	117
30CS307	70.66	111	30CS545	28.03	113	35CS511	63.77	117
30CS308	45.12	111	30CS545	28.03	119	40CS600	2745.50	121
30CS502	160.67	119	30CS546	4.68	120	40CS601	159.44	121
30CS502	160.67	112	30CS547	1.06	113	40CS602	497.11	121
30CS503	182.73	112	30CS547	1.06	120	40CS605	1764.25	121
30CS503	182.73	119	30CS548	80.93	124	40CS606	1792.56	121
30CS504	213.56	112	30CS548	80.93	120	40CS607	1874.54	121
30CS504	213.56	119	30CS549	87.74	120	40CS608	1798.95	121
30CS505	243.05	112	30CS549	87.74	124	40CS609	1827.26	121
30CS505	243.05	119	30CS550	97.13	120	40CS610	1909.24	122
30CS506	268.18	112	30CS550	97.13	124	40CS650	70.83	122
30CS506	268.18	119	30CS551	89.61	120	40CS652	70.83	122
30CS507	298.11	112	30CS551	89.61	124	40CS655	1.87	122
30CS507	298.11	119	30CS552	95.53	120	40CS658	6.60	122
30CS508	328.56	112	30CS552	95.53	124	40CS659	3.50	122
30CS508	328.56	119	30CS553	102.19	120	40CS660	8.50	122
30CS509	357.35	112	30CS553	102.19	124	40CS661	3.70	122
30CS509	357.35	119	30CS554	41.89	112	40CS662	11.80	122
30CS510	387.74	112	35CS400	98.57	116	40CS663	193.57	122
30CS510	387.74	119	35CS401	67.06	116	40CS664	11.10	123
30CS511	418.14	112	35CS402	129.17	116	40CS665	27.45	123
30CS511	418.14	119	35CS403	101.65	116	40CS666	38.02	123
30CS512	440.67	112	35CS404	77.67	116	40CS668	123.06	122
30CS512	440.67	119	35CS405	232.97	116	3003458	75.52	69
30CS513	37.98	112	35CS406	88.25	116	3003459	94.66	69

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3003460	136.18	69	3003635Q ^Δ	9.54	72	3003710*	346.47	72
3003461	212.80	69	3003637Q	10.07	72	3003713* ^Δ	378.90	73
3003462	283.79	69	3003638	9.75	73	3003716 ^Δ	312.88	73
3003463	452.06	69	3003639Q	6.44	72	3003718*	578.90	72
3003464	702.67	69	3003641	10.92	72	3003719*	586.08	72
3003465	26.89	69	3003642	11.57	73	3003723*	553.14	72
3003466	31.86	69	3003643Q	12.65	72	3003724	8.90	72
3003467	43.83	69	3003645Q	12.01	72	3003725Q	8.57	72
3003468	50.68	69	3003646 ^Δ	11.52	73	3003726	9.42	73
3003477	37.51	69	3003647Q	8.38	72	3003727	9.38	73
3003493	8.33	76	3003648 ^Δ	14.68	73	3003728	34.36	71
3003494 ^Δ	8.33	76	3003649	10.98	72	3003730 ^Δ	30.83	71
3003495	11.85	76	3003650	11.52	73	3003732 ^Δ	29.20	76
3003496 ^Δ	11.85	76	3003651Q ^Δ	22.13	72	3003734 ^Δ	37.19	76
3003497	15.04	76	3003652	14.65	73	3003736	40.74	76
3003498 ^Δ	23.95	76	3003654Q	16.43	72	3003738Q ^Δ	56.38	76
3003499	47.23	76	3003655	14.74	73	3003739	54.08	75
3003505	16.49	77	3003656Q	18.78	72	3003740	56.06	76
3003506	16.30	77	3003657	14.68	73	3003741 ^Δ	67.66	75
3003507	19.49	77	3003658Q ^Δ	22.83	72	3003743	133.66	75
3003508	20.70	77	3003659 ^Δ	14.68	73	3003755	63.46	75
3003509	21.24	77	3003660Q ^Δ	24.53	72	3003756	62.95	75
3003510	21.77	77	3003661 ^Δ	21.53	73	3003776 ^Δ	76.62	75
3003511 ^Δ	33.09	77	3003662	19.02	72	3003777	85.06	75
3003512	60.08	77	3003663	16.89	73	3003791 ^Δ	149.80	71
3003513*	278.48	77	3003664 ^Δ	18.23	72	3003792	20.76	71
3003515	705.74	77	3003665	17.47	73	3003796 ^Δ	6.13	69
3003516 ^Δ	45.18	78	3003666	18.72	72	3003797 ^Δ	6.13	69
3003528 ^Δ	54.15	78	3003667	17.47	73	3003798	4.51	69
3003550 ^Δ	34.25	76	3003668	18.72	72	3003800 ^Δ	6.64	69
3003554 ^Δ	33.40	76	3003669 ^Δ	18.05	73	3003801 ^Δ	6.64	69
3003569	5.65	70	3003670	18.91	72	3003803 ^Δ	6.83	69
3003570 [†]	6.22	71	3003671	16.84	73	3003804 ^Δ	8.34	69
3003572	7.15	70	3003672Q ^Δ	23.02	72	3003805 ^Δ	8.34	69
3003573 [†]	8.82	71	3003673 ^Δ	18.05	73	3003807 ^Δ	8.34	69
3003574	10.38	70	3003674	18.14	72	3003808	8.34	69
3003575	12.58	71	3003675	18.05	73	3003809	8.34	69
3003576	34.67	70	3003676 ^Δ	25.23	72	3003810	8.27	69
3003577	10.16	70	3003677	25.13	73	3003812 ^Δ	13.28	69
3003579 [†]	13.61	71	3003678Q	33.98	72	3003815	13.28	69
3003582	16.65	70	3003679 ^Δ	24.97	72	3003816	14.74	69
3003583 [†]	21.86	71	3003681Q ^Δ	30.85	72	3003817 ^Δ	14.74	69
3003584	53.00	70	3003683Q ^Δ	34.78	72	3003820	4.53	69
3003585	43.27	70	3003685	24.97	72	3003821	4.89	69
3003587 [†]	56.06	71	3003686 ^Δ	25.13	73	3003822Q ^Δ	5.62	69
3003597	4.44	70	3003687	92.91	73	3003823Q	5.62	69
3003598	4.97	71	3003688	86.86	72	3003824	6.45	69
3003601 ^Δ	7.78	71	3003689	93.86	73	3003825	6.47	69
3003602	12.58	71	3003690 ^Δ	86.93	72	3003826	6.47	69
3003603	12.50	71	3003691 ^Δ	71.74	73	3003827Q ^Δ	7.96	69
3003605 ^Δ	22.98	71	3003698*	186.92	73	3003828	8.67	69
3003619 ^Δ	64.30	76	3003702*	186.12	73	3003829	8.71	70
3003620 ^Δ	63.88	76	3003704*	267.51	73	3003830	9.45	70
3003622	9.42	71	3003705*	312.88	72	3003831	9.22	70
3003633	9.82	72	3003707Q ^Δ	261.22	72	3003832	9.45	70
3003634 ^Δ	11.57	73	3003709*	346.25	72	3003833	9.46	70

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3003834	9.42	70	3018007 ^Δ	64.07	76	3027837	44.47	89
3003835	9.43	70	3018008	15.57	77	3027842	55.58	89
3003836Q ^Δ	15.69	70	3018025 ^Δ	94.28	78	3027847	101.02	89
3003837Q	15.69	70	3018026 ^Δ	45.18	78	3027848	114.15	89
3003838Q	15.69	70	3018027 ^Δ	45.18	78	3027849	125.54	89
3003839	20.65	70	3018028 ^Δ	45.18	78	3027850	102.63	89
3003840	20.66	70	3018029 ^Δ	54.15	78	3027852	97.72	89
3003841	5.35	69	3018030 ^Δ	78.85	78	3027853	136.79	89
3003842Q	5.62	69	3018031 ^Δ	416.17	78	3027854	122.73	89
3003843	6.46	69	3018297	364.11	81	3027855	103.27	89
3003856*	339.68	70	3018299	514.81	81	3027856	93.00	89
3003858	8.27	69	3018300	417.52	81	3028271	325.74	89
3003860	4.65	77	3018301	572.36	81	3041228	63.24	81
3003861	3.96	77	3018302	728.18	81	3041229	101.98	81
3003862 ^Δ	3.96	77	3018704 ^Δ	4.88	77	3043453 ^Δ	57.62	70
3003863	3.97	77	3018705 ^Δ	6.36	77	3043454 ^Δ	66.33	70
3003865 ^Δ	5.02	77	3018706 ^Δ	6.36	77	3043455 ^Δ	108.73	70
3003866	9.42	77	3018707 ^Δ	7.39	77	3043457 ^Δ	155.96	70
3003867 ^Δ	11.75	77	3018708	1.19	77	3043503	170.86	78
3003868	38.00	77	3018709	1.33	77	3043504	402.14	78
3003869	11.07	77	3018710 ^Δ	7.39	77	3043505	418.44	78
3003870	11.24	77	3018804	566.58	81	3043506	614.17	78
3003871 ^Δ	11.24	77	3018808*	93.71	69	3053972	423.79	89
3003872 ^Δ	26.54	77	3018809*	246.24	69	3061202	1728.22	81
3003873	35.75	77	3018810*	341.11	69	3061211	23.11	81
3003874	3.96	77	3018811	151.49	70	3061212	33.24	81
3003905 ^Δ	10.52	77	3018812	150.07	70	3061213	50.44	81
3003908 ^Δ	12.75	78	3018813	150.07	70	3065639	128.42	89
3003910 ^Δ	12.75	78	3018815Q ^Δ	49.66	76	3065640	121.38	89
3003912 ^Δ	12.75	78	3018818*	208.14	71	3065641	118.01	89
3003913 ^Δ	12.75	78	3018819 ^Δ	506.90	71	3065642	136.78	89
3003917 ^Δ	30.07	78	3018820	120.32	70	3065643	139.18	89
3003921 ^Δ	30.07	78	3018821*	196.71	70	3065644	192.38	89
3003924 ^Δ	30.07	78	3018822 ^Δ	271.91	70	3065645	153.61	89
3003927 ^Δ	30.07	78	3018824Q ^Δ	202.60	72	3065646	147.97	89
3003935 ^Δ	10.52	77	3018826*	476.77	72	3065647	131.07	89
3003936 ^Δ	17.88	77	3018827 ^Δ	409.26	72	3065902	115.26	57
3003937 ^Δ	17.88	77	3018828*	552.78	72	3070529	424.95	81
3003938 ^Δ	29.56	77	3018829*	699.26	72	3070629	409.15	77
3003943	42.19	71	3018830 ^Δ	186.92	73	3070630*	280.28	72
3003944	5.27	71	3018831*	186.12	73	3070631*	132.55	76
3004372	199.68	89	3018832 ^Δ	266.00	73	3070632*	239.18	70
3004378	389.36	81	3018833*	268.47	73	3070633*	186.92	72
3004379	518.73	81	3018834 ^Δ	312.88	73	3070634*	195.21	72
3004380	458.69	81	3018835 ^Δ	312.88	73	3070827	36.86	81
3004381	572.04	81	3018836 ^Δ	315.84	73	3071219	339.10	81
3011162	55.76	92	3018837 ^Δ	314.93	73	3071220	389.36	81
3014918*	341.11	70	3021196	119.86	92	3071221	518.73	81
3017974*	220.45	76	3024667	50.65	89	3071222	361.99	81
3017975*	283.27	76	3024668	55.41	89	3071224	458.69	81
3017976*	342.15	76	3027829	72.49	89	3071225	572.04	81
3017978*	347.33	71	3027830	52.91	89	3071226	424.95	81
3017993	34.14	70	3027831	59.63	89	3072765	170.86	78
3018002*	266.00	73	3027832	38.30	89	3072958	13.50	81
3018003*	267.70	73	3027833	38.88	89	3072989	19.34	81
3018005 ^Δ	44.83	71	3027834	42.81	89	3072990	29.44	81

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3075609	56.80	69	3079818	22.63	83	3080014	66.03	56
3075823	53.91	73	3079819	20.24	83	3080016	10.41	56
3075824 ^Δ	12.50	70	3079820	28.13	83	3080019	27.63	58
3079754	4.77	82	3079821	10.60	83	3080021	67.46	58
3079755	6.22	82	3079822	10.60	83	3080023	14.40	58
3079756	9.34	82	3079823	10.60	83	3080026	44.36	56
3079757	16.25	82	3079824	10.60	83	3080030	49.38	56
3079758	25.89	82	3079825	14.70	83	3080033	59.51	56
3079759	6.63	82	3079826	14.48	83	3080034	75.09	56
3079760	8.57	82	3079827	14.67	83	3080035	83.80	56
3079761	9.38	82	3079828	15.97	83	3080036	96.01	56
3079762	15.87	82	3079829	13.69	83	3080044	82.95	56
3079763	15.54	82	3079833	23.36	83	3080050	183.85	56
3079764	24.92	82	3079834	22.25	83	3080063	33.05	56
3079768	5.95	82	3079835	23.76	83	3080078	23.71	58
3079769	7.48	82	3079836	23.43	83	3080082	45.62	58
3079770	10.62	82	3079837	25.72	83	3080088	23.67	57
3079771	16.56	82	3079839	36.21	83	3080090	68.96	57
3079772	32.41	82	3079840	40.02	83	3080095	139.42	57
3079773	12.68	82	3079842	35.62	83	3080096	139.42	57
3079774	18.42	82	3079854	15.63	82	3080097	139.42	57
3079775	35.29	82	3079855	19.19	82	3080103	22.77	58
3079776	7.53	82	3079856	19.83	82	3080105	83.76	58
3079777	9.18	82	3079859	6.90	84	3080106	9.66	58
3079778	13.24	82	3079860	7.66	84	3082542	26.28	77
3079779	14.76	82	3079861	8.77	84	3083259	18.98	82
3079780	16.51	82	3079913	78.20	58	3084561	6.25	76
3079781	26.34	82	3079915	185.58	58	3084562	7.46	76
3079782	11.48	82	3079917	37.75	58	3084563	3.70	70
3079783	14.54	82	3079950	33.23	56	3084564 [†]	3.73	71
3079784	17.73	82	3079951	35.53	56	3084565	3.74	70
3079785	19.83	82	3079952	37.49	56	3084566 [†]	4.97	71
3079786	30.14	82	3079953	38.01	56	3084567	4.41	71
3079788	8.11	84	3079954	38.98	56	3084570	9.08	72
3079789	8.26	84	3079959	75.42	56	3084571	7.39	73
3079790	9.21	84	3079960	77.50	56	3084572	9.35	72
3079791	11.91	84	3079961	79.67	56	3084573	9.42	73
3079793	15.74	84	3079962	85.54	56	3084574	9.42	72
3079796	26.59	84	3079965	10.40	56	3084575	9.43	73
3079797	39.25	84	3079966	10.40	56	3084576	4.53	69
3079798	5.97	83	3079967	8.55	56	3084577	3.70	71
3079799	6.94	83	3079968	10.40	56	3090788	130.06	90
3079800	7.62	83	3079969	8.55	56	3090826	102.54	90
3079801	8.43	83	3079980	113.35	56	3090828	68.76	90
3079802	9.63	83	3079981	63.21	56	3090829	108.25	90
3079803	12.53	83	3079982	41.71	56	3094673	47.27	77
3079804	18.36	83	3079983	41.71	56	3094674	79.23	77
3079805	27.58	83	3079985	46.64	56	3095140	424.95	81
3079806	30.25	83	3079991	129.64	56	3095142	458.69	81
3079811	8.09	83	3079992	129.64	56	3095142	572.04	81
3079812	11.57	83	3079994	178.95	56	3095168	192.35	75
3079813	16.63	83	3079996	18.67	56	3095680	458.69	81
3079814	28.34	83	3079997	18.67	56	3095681	424.95	81
3079815	46.39	83	3080008	305.80	57	3095682	572.04	81
3079816	19.52	83	3080010	212.06	57	3097151	85.09	73
3079817	21.77	83	3080012	34.22	56	4009725	85.72	72

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4009748	43.32	78	4023077	552.05	91	4048906	2948.65	91
4009749 ^Δ	85.64	78	4023364	105.09	92	4048907	4717.83	91
4009750 ^Δ	73.76	78	4023365	112.77	92	4053507	297.24	92
4009751 ^Δ	141.78	78	4023375	45.80	74	4053508	117.35	91
4009761 ^Δ	12.75	78	4023376	52.22	74	4053509	560.24	92
4009793	8.78	75	4024189	2794.34	79	4053510	545.51	92
4011390	732.10	79	4024190	3253.14	79	4055036	6.89	88
4011402 ^Δ	35316.98	79	4024393	2794.34	79	4061068	217.70	76
4011403	983.91	79	4024432	2794.34	79	4063088 ^Δ	13.43	74
4011453	21.73	79	4024493	2335.57	79	4063089 ^Δ	13.61	74
4012001 ^Δ	7.67	74	4024569	2794.34	79	4063092 ^Δ	7.10	75
4012002 ^Δ	9.54	74	4025509	44.64	79	4063766	25.06	75
4012113	5.42	74	4025566	3.54	58	4063767	25.06	75
4012117	7.48	74	4025568	3.54	58	4063768	25.06	75
4012118	8.71	74	4025988 ^Δ	54.26	78	4063769	31.86	75
4012121 ^Δ	7.85	74	4025989 ^Δ	38.95	78	4063770 ^Δ	31.86	75
4012122	9.54	74	4025992 ^Δ	244.08	78	4063772	53.52	75
4012125	8.16	74	4026102	89.97	58	4063971	8.16	85
4012126	9.62	74	4026106	134.22	58	4063972	10.20	85
4012131	8.76	74	4026109	288.67	58	4063974	16.14	85
4012132	11.02	74	4026438	34.22	75	4064166	24.47	85
4012137	9.59	74	4026439 ^Δ	35.52	75	4064167	56.76	85
4012138	11.13	74	4026441 ^Δ	174.68	75	4064182	9.66	85
4012141	10.05	74	4026442 ^Δ	363.17	75	4064185	14.02	85
4012142	10.98	74	4026689	28.92	87	4064190	20.58	85
4012146	11.19	74	4026690	37.82	87	4064193	47.70	85
4012147	13.61	74	4026691	52.28	87	4064199	8.95	85
4012151	40.57	74	4026692	33.92	87	4064200	12.06	85
4012155	41.12	74	4026693	47.83	87	4064202	20.04	85
4012159	47.88	74	4026694	66.29	87	4064204	30.16	85
4012326	7.10	75	4026699	6.67	87	4064205	92.58	85
4012329	4.96	74	4028869	0.87	111	4064235	18.15	86
4012331	9.95	74	4031987	193.45	92	4064239	31.21	86
4012333 ^Δ	11.93	74	4031988	188.81	92	4064262	8.75	86
4012335	10.19	74	4035779	781.40	92	4064271	21.36	86
4012337	10.48	74	4035780	279.65	92	4064273	21.99	86
4012339	8.12	74	4036272	55.76	92	4064274	38.31	86
4012341 ^Δ	11.04	74	4036273	115.28	91	4064276	43.37	86
4012343	9.12	74	4036330	3901.08	78	4064277	9.48	88
4012345	38.93	74	4037386	22.55	91	4064278	9.02	88
4012346 ^Δ	10.19	74	4042219 ^Δ	511.46	71	4064279	11.62	88
4013530	840.00	91	4042914	2335.57	79	4064280	16.95	88
4013538	293.38	91	4042915	241.90	79	4064281	19.71	88
4013541	465.23	92	4043224	254.65	91	4064282	25.95	88
4013542	100.40	91	4043225	272.48	91	4064283	28.14	88
4013543	100.40	91	4046556	294.87	92	4064315	44.20	86
4013553	43.27	91	4046557	294.87	92	4064323	12.68	85
4013559	55.65	91	4046558	324.36	92	4064324	18.44	85
4013562	59.61	91	4046559	324.36	92	4064326	28.37	85
4013571	36.19	87	4046560	471.79	92	4064328	43.37	85
4013572	36.19	87	4046691	339.10	92	4064329	112.97	85
4013573	36.19	87	4046694	339.10	92	4064354	18.71	85
4020757	76.18	79	4046695	353.84	92	4064361	26.96	85
4023071	33.94	91	4046756	353.84	92	4064371	40.26	85
4023073	37.09	91	4046758	501.27	92	4064881	364.30	76
4023075	48.73	91	4046759	530.76	92	4064882	414.56	76

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4064999	8057.59	78	4081515	8.52	76	HD13A/28W	24.28	97
4065000	399.26	78	4081516	8.71	76	HD14/15W	8.98	97
4065001	399.26	78	4081517	8.72	76	HD14/22W	8.98	97
4065138	27.63	58	4081518	9.00	76	HD14/28W	24.28	97
4065141	27.63	58	4081519	12.54	76	HD14A/22W	8.98	97
4065143	27.63	58	4081520	12.21	76	HD15/15W	8.98	97
4065145	3.54	58	4081521	12.82	76	HD15/22W	8.98	97
4065188	2.95	58	4081522	22.68	76	HD18/15W	8.98	96
4065190	7.23	58	4081523	29.35	76	HD18/22W	8.98	96
4065192	3.54	58	4999998	98.66	92	HD18/28W	24.28	96
4065978	12.41	87	4999999	99.97	92	HD18A/22W	9.50	96
4065979	13.38	87	BV1/21 WH	61.50	52	HD25A/15W	6.31	98
4065981	17.03	87	BV1 WH	45.48	52	HD25B/15W	7.46	98
4065982	24.87	87	BV3 WH	10.93	52	HD25B/22W	8.08	98
4065983	27.75	87	BV11 WH	11.48	52	HD26A/10W	6.41	98
4066001	11.93	85	CV1 WH	45.48	52	HD26A/15W	5.33	98
4066003	12.95	85	CV3 WH	10.93	52	HD26B/15W	6.41	98
4066004	17.40	85	CV11 WH	11.48	52	HD26B/22W	6.93	98
4066005	23.46	85	FBP3 WH	54.65	53	HD27/15W	6.97	98
4066007	37.92	85	FBP6 WH	109.18	53	HD62/10W	5.38	95
4066009	12.34	85	FCP3 WH	54.65	53	HD62/15W	4.82	95
4066011	13.45	85	FCP6 WH	109.18	53	HD62/22W	6.06	95
4066012	18.19	85	FCW6 WH	4.45	53	HD62/28W	10.09	95
4066013	25.18	85	FSBW6 WH	4.45	53	HD74 GR	28.04	106
4066015	38.43	85	FSCW6 WH	4.45	53	HD75 GR	69.12	106
4066028	9.61	86	HD1/10W	6.06	95	HD78 GR	70.70	106
4066029	19.21	86	HD1/15W	3.63	95	HD125A/15W	11.13	99
4066030	11.43	86	HD1/22W	5.11	95	HD125B/15W	13.18	99
4066031	15.97	86	HD1/28W	14.70	95	HD125B/22W	13.18	99
4066033	18.40	86	HD2/15W	6.29	96	HD125D/15W	14.12	99
4066034	27.70	86	HD2/22W	4.86	96	HD125E/15W	30.25	100
4066035	34.08	86	HD2/28W	11.78	96	HD125EH/15W	30.25	100
4066041	7.90	86	HD3B/15W	11.43	96	HD125F/15W •	19.92	100
4066042	9.61	86	HD3B/22W	9.96	96	HD125G/15W •	19.92	100
4066043	12.13	86	HD3C/22W	11.43	96	HD125H/15W	13.08	99
4066044	15.68	86	HD4/10W	6.87	95	HD125H/22W	15.99	99
4066045	27.20	86	HD4/15W	4.64	95	HD225A/15W	15.26	99
4066046	18.00	86	HD4/22W	6.87	95	HD225B/15W	17.24	99
4066067	21.81	86	HD4A/15W	6.87	95	HD225B/22W	18.33	99
4066068	22.25	86	HD5/10W	6.87	95	HD225E/15W	33.11	100
4066072	9.61	86	HD5/15W	4.41	95	HD225H/15W	19.16	99
4066074	9.61	86	HD5/22W	6.46	95	HD225H/22W	22.13	99
4066076	10.67	86	HD5/28W	17.60	95	HD425A/15W	10.55	99
4066078	37.01	86	HD8/10W	7.42	96	HX6/15W	15.57	101
4066079	22.83	86	HD8/15W	5.15	96	HX6/22W	16.93	101
4066082	33.20	86	HD8/22W	7.42	96	HX18/15W	15.53	102
4066095	40.04	85	HD10/10W	8.49	95	HX19/15W	16.24	102
4066097	63.40	85	HD10/15W	6.19	95	HX20/15W	5.25	97
4066099	114.06	85	HD10/22W	8.49	95	HX20/22W	6.60	97
4066133	15.56	86	HD10/28W	24.28	95	HX20/28W	29.54	97
4066449	11.78	58	HD12/22W	8.98	96	HX22/15W	19.94	102
4066452	16.84	58	HD12/28W	24.28	96	HX22/22W	26.03	102
4066454	26.05	58	HD13/15W	8.98	97	HX24/15W	14.50	101
4066723	258.00	91	HD13/22W	8.98	97	HX28/10W	10.37	101
4066725	501.27	92	HD13/28W	24.28	97	HX28/15W	10.09	101
4067485	24.47	87	HD13A/22W	8.98	97	HX28/22W	14.50	101

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HX28/28W	28.50	101	HX89B/22W	16.86	103	HXXC5015 RD	379.14	94
HX29/10W	10.37	101	HX91T/22W	33.87	104	HXXC5022 BU	583.21	94
HX29/15W	10.09	101	HX92/22W	12.11	104	HXXC5022 RD	583.21	94
HX29/22W	14.50	101	HX92B/22W	13.24	103	KL1-10	6.06	95
HX29/28W	27.55	101	HX92T/15W	56.88	104	KL1-15	3.63	95
HX30/15W	5.51	101	HX93T/15W	83.42	105	KL1-22	5.11	95
HX30/22W	9.27	101	HX94/22W	16.26	104	KL1-28	14.70	95
HX30/28W	13.60	101	HX94B/22W	16.86	103	KL2-15	6.29	96
HX31/15W	5.62	101	HX94T/15W	113.89	105	KL2-22	4.86	96
HX31/22W	9.27	101	HX95A GR	32.60	105	KL2-28	11.78	96
HX31/28W	13.60	101	HX95A GR•	32.60	87	KL3B-15	11.43	96
HX32/15 GY	10.09	101	HX96/22W	18.59	104	KL3B-22	9.96	96
HX35/15W	15.79	102	HX96B/22W	18.59	104	KL3C-22	11.43	96
HX35/22W	22.49	102	HX97 GY	4.96	105	KL4-10	6.87	96
HX36/15W	28.23	102	HX97 GY•	4.96	87	KL4-15	4.64	96
HX36/22W	30.36	102	HX98 GY	5.75	105	KL4-22	6.87	96
HX37/15W	14.11	102	HX98 GY•	5.75	87	KL4A-15	6.87	96
HX38/15W	13.41	102	HX100 BL	9.78	107	KL5-10	6.87	95
HX39 GR	5.23	101	HX101/15W	13.61	107	KL5-15	4.41	95
HX44/10W	1.90	97	HX103 BL	2.72	107	KL5-22	6.46	95
HX44/15W	2.21	97	HX104 BL	3.28	107	KL5-28	17.60	95
HX44/22W	2.21	97	HX109 GY	5.25	105	KL6-15	15.57	101
HX44/28W	2.65	97	HX110 GY	4.40	105	KL6-22	16.93	101
HX57/15 GRp/pack 7.41	107		HX112 GY	0.29	105	KL8-10	7.42	96
HX57/22 GRp/pack 7.41	107		HX113 WH	11.52	105	KL8-15	5.15	96
HX58/15 GYp/pack 7.41	107		HX200	19.28	107	KL8-22	7.42	96
HX58/22 GYp/pack 7.41	107		HXC25/15 BL	58.93	107	KL10-10	8.49	95
HX60/10W	0.86	95	HXC25/22 BL	73.74	107	KL10-15	6.19	95
HX60/15W	0.87	95	HXC50/15 BL	117.95	107	KL10-22	8.49	95
HX60/22W	1.13	95	HXC50/22 BL	146.70	107	KL10-28	24.28	95
HX60/28W	1.68	95	HXX03/15W	11.89	94	KL12-22	8.98	96
HX65/10W	0.33	106	HXX03/22W	23.23	94	KL12-28	24.28	96
HX65/15W	0.52	106	HXX03/28W	31.87	94	KL13-15	8.98	97
HX65/22W	0.52	106	HXX06/15W	24.51	94	KL13-22	8.98	97
HX65/28W	0.63	106	HXX06/22W	48.11	94	KL13-28	24.28	97
HX75/15 GR	3.38	106	HXX06/28W	65.60	94	KL13A-22	8.98	97
HX75/22 GR	4.76	106	HXX10/15W	37.95	94	KL13A-28	24.28	97
HX77/10W	3.32	106	HXX10/22W	74.05	94	KL14-15	8.98	97
HX77/15W	2.72	106	HXX10/28W	99.83	94	KL14-22	8.98	97
HX78/10W	0.49	106	HXX25/10W	80.60	94	KL14-28	24.28	97
HX78/15W	0.55	106	HXX25/15W	94.80	94	KL14A-22	8.98	97
HX78/22W	0.55	106	HXX25/22W	185.08	94	KL15-15	8.98	97
HX78/28W	0.62	106	HXX25/28W	249.56	94	KL15-22	8.98	97
HX79/10W	0.55	106	HXX50/10W	158.76	94	KL18-15	8.98	96
HX79/15W	0.63	106	HXX50/15W	187.64	94	KL18-22	8.98	96
HX79/22W	0.63	106	HXX50/22W	366.47	94	KL18-28	24.28	96
HX79/28W	0.71	106	HXX50/28W	496.75	94	KL20-15	5.25	97
HX81 GR	810.47	106	HXX80/15W	300.23	94	KL20-22	6.60	97
HX85/15W	0.52	106	HXX100/10W	312.75	94	KL25A-15	6.31	98
HX85/22W	0.52	106	HXX100/15W	369.48	94	KL25B-15	7.46	98
HX85/28W	0.87	106	HXX120/15W	443.39	94	KL25B-22	8.08	98
HX86/15W	0.39	106	HXXC2528 BU	480.14	94	KL26A-10	6.41	98
HX86/22W	0.52	106	HXXC2528 RD	480.14	94	KL26A-15	5.33	98
HX88/22W	12.11	103	HXXC5010 BU	329.74	94	KL26B-15	6.41	98
HX88B/22W	12.52	103	HXXC5010 RD	329.74	94	KL26B-22	6.93	98
HX89/22W	16.26	103	HXXC5015 BU	379.14	94	KL27-15	6.97	98

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KL125F-15 •	19.92	100			
KL125G-15 •	19.92	100			
KL125H-15	13.08	99			
KL125H-22	15.99	99			
KL225A-15	15.26	99			
KL225B-15	17.24	99			
KL225B-22	18.33	99			
KL225E-15	33.11	100			
KL225H-15	19.16	99			
KL225H-22	22.13	99			
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Notes

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