

wavin Hep₂O OSMA



Trade Price List Above Ground Systems

13th April 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	50.94
	▽	112	OT072G	5	50.94
	▽	112	OT072W	5	50.94
▽	112	OT072N	5	50.94	
Gutter – 4.0m					
▽	112	OT074B	5	101.32	
▽	112	OT074G	5	101.32	
▽	112	OT074W	5	101.32	
▽	112	OT074N	5	101.32	
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	112	OT005B	10	16.46
	▽	112	OT005G	5	16.46
	▽	112	OT005W	5	16.46
▽	112	OT005N	5	16.46	
	Gutter Union				
	▽	112	OT009B	10	21.99
	▽	112	OT009G	5	21.99
	▽	112	OT009W	5	21.99
▽	112	OT009N	5	21.99	
	Gutter Support Bracket				
	▽	112	OT019B	40	7.26
	▽	112	OT019G	20	7.26
	▽	112	OT019W	40	7.26
▽	112	OT019N	20	7.26	
	Gutter Bracket Spacer – 21mm projection	–	OT044B	20	8.91
		–	OT045B	10	20.59
Outlets and Stopends					
	Running Outlet – straight				
	▽	112	OT624B	5	33.26
	▽	112	OT624G	5	33.26
	▽	112	OT624W	5	33.26
▽	112	OT624N	5	33.26	
	Swivelock Running Outlet – with fitted offset bend				
	▽	112	OT625B	2	50.71
	Stopend Outlet				
	▽	112	OT007B	5	40.94
	▽	112	OT007G	5	40.94
	▽	112	OT007W	5	40.94
▽	112	OT007N	5	40.94	
	Stopend – internal				
	▽	112	OT010B	5	10.54
	▽	112	OT010G	5	10.54
	▽	112	OT010W	5	10.54
▽	112	OT010N	5	10.54	












	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Stopend – external	112	OT011B	10	13.58
		112	OT011G	5	13.58
		112	OT011W	5	13.58
		112	OT011N	5	13.58
Gutter Angles					
	Angle – 90°	112	OT003B	5	31.48
		112	OT003G	5	31.48
		112	OT003W	5	31.48
		112	OT003N	5	31.48
	Angle – 60°	112	OT016B	5	43.39
					
	Angle – 45°	112	OT004B	5	41.17
		112	OT004G	5	41.17
		112	OT004W	5	41.17
		112	OT004N	5	41.17
	Fabricated angles to order	112	OT999	1	171.71
Connectors to Metal and PVC-U Gutters					
	Connector to 4" or 4.5" CI Half-round Gutter	112	OT008B	10	36.90
					
	Connector to 4.5" CI Ogee Gutter – LH	112	OT014B	5	63.21
					
	Connector to 4.5" CI Ogee Gutter – RH	112	OT015B	5	63.21
					
Rise and Fall Brackets and Spikes					
	Bow and Pin	112	OT914B	10	31.14
	– for Rise and Fall Brackets	112	OT914G	10	31.14
	(for use with Build-in or Drive-in Spikes)	112	OT914W	10	31.14
		112	OT914N	10	31.14
	Build-in Spike	–	OT985B	10	22.15
	– 200mm long	–	OT986B	10	33.27
	– 300mm long				
	Drive-in Spike	–	OT988B	10	18.48
	– 200mm long	–	OT989B	10	24.80
	– 300mm long				
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket	112	OT745B	20	39.96
	– 300mm long				
	Side Rafter Bracket	112	OT746B	20	43.24
	– 300mm long				

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	47.67
 Adjustable Side Rafter Bracket – 300mm long	–	OT148G	20	44.03
 Rafter Bracket (galvanised) Top Rafter Bracket – 300mm long galvanised	112	OT245B	5	40.63
 Side Rafter Bracket – 300mm long galvanised	112	OT246B	5	40.63
 Pipe P/E Pipe – 2.0m	68	OT082B	5	57.13
♥	68	OT082G	5	57.13
♥	68	OT082N	5	57.13
P/E Pipe – 2.75m	68	OT086B	5	79.90
♥	68	OT086G	5	79.90
♥	68	OT086W	5	79.90
♥	68	OT086N	5	79.90
♥	68	OT086AG	5	79.90
P/E Pipe – 4.0m	68	OT084B	5	114.19
♥	68	OT084G	5	114.19
♥	68	OT084W	5	114.19
♥	68	OT084N	5	114.19
♥	68	OT084AG	5	114.19
P/E Pipe – 5.5m	68	OT088B	5	149.13
♥	68	OT088G	5	149.13
♥	68	OT088W	5	149.13
♥	68	OT088N	5	149.13
♥	68	OT088AG	5	149.13
 Pipe and Socket Brackets Pipe or Socket Bracket	68	OT033B	10	17.99
♥	68	OT033G	5	17.99
♥	68	OT033W	5	17.99
♥	68	OT033N	5	17.99
♥	68	OT033AG	5	17.99
 Pipe Bracket	68	OT034B	20	12.53
♥	68	OT034G	5	12.53
♥	68	OT034W	5	12.53
♥	68	OT034N	5	12.53
♥	68	OT034AG	5	12.53











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	14.70
	▽	68	OT038G	10	14.70
	▽	68	OT038W	10	14.70
	▽	68	OT038N	10	14.70
	▽	68	OT038AG	10	14.70
	Drive-in Pipe Bracket	68	OT143B	10	41.77
	▽				
	Pipe Bracket Spacer – for use with OT033	68	OT031B	10	5.97
	Bracket Extension Piece – for use with OT033	68	OT030B	5	7.01
	▽				
Connectors and Adaptors					
	Pipe Connector	68	OT024B	5	15.32
	▽	68	OT024G	5	15.32
	▽	68	OT024W	5	15.32
	▽	68	OT024N	5	15.32
	▽	68	OT024AG	5	15.32
	Connector to 2.5" CI RW pipe	68	OT092B	5	37.79
	▽				
	Rainwater Adaptor – 68mm pipe to 110mm PVC-U drain	–	4S149	10	31.83
	Rainwater Adaptor – 68mm pipe to 110mm PVC-U drain	–	OT149B	5	40.00
	▽				
	Universal Drain Adaptor	–	4S159	10	33.93
Bends and Shoe					
	Offset Bend – socket	68	OT025B	10	19.21
	▽	68	OT025G	5	19.21
	▽	68	OT025W	5	19.21
	▽	68	OT025N	5	19.21
	▽	68	OT025AG	5	19.21
	Offset Bend – spigot	68	OT026B	10	23.87
	▽	68	OT026G	5	23.87
	▽	68	OT026W	5	23.87
	▽	68	OT026N	5	23.87
	▽	68	OT026AG	5	23.87

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

Wavin Osma RoundLine

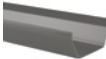










Rainwater half round domestic – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Long Tail Offset Bend – spigot ▽	68	OT027B	5	29.80
	Pipe Bend – 87.5° ▽	68	OT161B	5	37.03
	▽	68	OT161G	5	37.03
	▽	68	OT161W	5	37.03
	▽	68	OT161N	5	37.03
	▽	68	OT161AG	5	37.03
	Pipe Shoe ▽	68	OT037B	5	20.79
	▽	68	OT037G	5	20.79
	▽	68	OT037W	5	20.79
	▽	68	OT037N	5	20.79
	▽	68	OT037AG	5	20.79
Branch, Access Pipe and Hopper Head					
	Pipe Branch – 67.5° ▽	68	OT035B	5	62.48
	▽	68	OT035G	5	62.48
	▽	68	OT035W	5	62.48
	▽	68	OT035N	5	62.48
	▽	68	OT035AG	5	62.48
	Access Pipe – with screwed door ▽	68	OT274B	5	112.76
	▽	68	OT274G	5	112.76
	▽	68	OT274W	5	112.76
	▽	68	OT274N	5	112.76
	▽	68	OT274AG	5	112.76
	Hopper Head ▽	68	OT332B	5	83.88
	▽	68	OT332G	5	83.88
	▽	68	OT332W	5	83.88
	▽	68	OT332N	5	83.88
	▽	68	OT332AG	5	83.88
Spares					
	Gutter Seal	112	OT064G	5	5.57
	Flexiclip ▽	112	OT116B	1	4.06
	▽	112	OT116G	1	4.06
	▽	112	OT116W	1	4.06
	▽	112	OT116N	1	4.06
	Gutter Pad – narrow	112	OT060B	5	5.57
	Gutter Pad – wide	112	OT061B	5	5.57

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	54.04
	▽	100	4T872W	5	54.04
	▽	100	4T872N	5	54.04
	Gutter – 4.0m				
▽	100	4T874B	5	108.14	
▽	100	4T874W	5	108.14	
▽	100	4T874N	5	108.14	
Gutter Union and Brackets					
	Gutter Jointing Bracket				
	▽	100	4T805B	20	21.34
	▽	100	4T805W	20	21.34
▽	100	4T805N	20	21.34	
	Gutter Union				
	▽	100	4T809B	10	34.05
	▽	100	4T809W	5	34.05
▽	100	4T809N	5	34.05	
	Gutter Support Bracket				
	▽	100	4T819B	20	9.19
	▽	100	4T819W	20	9.19
▽	100	4T819N	20	9.19	
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	8.91
		–	0T045B	10	20.59
Outlets and Stopends					
	Running Outlet				
	▽	100	4T806B	10	35.46
	▽	100	4T806W	10	35.46
▽	100	4T806N	10	35.46	
	Stopend Outlet				
	▽	100	4T807B	10	37.59
	▽	100	4T807W	10	37.59
▽	100	4T807N	10	37.59	
	Stopend – internal				
	▽	100	4T810B	5	13.61
	▽	100	4T810W	5	13.61
▽	100	4T810N	5	13.61	
	Stopend – external				
	▽	100	4T811B	10	15.71
	▽	100	4T811W	10	15.71
▽	100	4T811N	10	15.71	
Gutter Angles					
	Angle – 90°				
	▽	100	4T803B	10	34.39
	▽	100	4T803W	10	34.39
▽	100	4T803N	10	34.39	

Wavin Osma SquareLine















Rainwater square – PVC-U

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece			
 Angle – 45° ♡ ♡ ♡	100	4T804B	5	47.75			
	100	4T804W	5	47.75			
	100	4T804N	5	47.75			
Fabricated angles to order	100	4T999	1	179.14			
Connectors to Metal and PVC-U Gutter Connector to 4.5" RoundLine Gutter							
 ♡ ♡	100	4T818B	5	57.70			
	100	4T818W	5	57.70			
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	38.29			
	–	0T985B	10	22.15			
	–	0T986B	10	33.27			
	–	0T988B	10	18.48			
–	0T989B	10	24.80				
Rafter Brackets (BZP)							
 	Adjustable Top Rafter Bracket – 300mm long						
	–	0T147G	20	47.67			
Adjustable Side Rafter Bracket – 300mm long				–	0T148G	20	44.03

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Pipe				
	P/E Pipe – 2.0m				
	♥	61	4T882B	5	57.61
	♥	61	4T882W	5	57.61
	♥	61	4T882N	5	57.61
	P/E Pipe – 2.75m				
	♥	61	4T886B	5	81.41
	♥	61	4T886W	5	81.41
	♥	61	4T886N	5	81.41
	P/E Pipe – 4.0m				
	♥	61	4T884B	5	118.01
	♥	61	4T884W	5	118.01
	♥	61	4T884N	5	118.01
	P/E Pipe – 5.5m				
	♥	61	4T888B	5	162.35
♥	61	4T888W	5	162.35	
♥	61	4T888N	5	162.35	
Pipe Brackets and Spacer					
	Pipe Bracket – Stand Off				
	♥	61	4T833B	5	12.16
	♥	61	4T833W	5	12.16
	♥	61	4T833N	5	12.16
	Pipe Bracket				
	♥	61	4T834B	5	10.35
	♥	61	4T834W	5	10.35
	♥	61	4T834N	5	10.35
	Pipe Bracket Spacer				
	– for use with 4T834, 4T823, 4T832, 4T858, 4T855	–	4T731B	10	17.21
–	–	4T731W	10	17.21	
Connectors and Adaptors					
	Pipe Connector and Bracket – Stand Off				
	♥	61	4T824B	5	35.74
	♥	61	4T824W	5	35.74
♥	61	4T824N	5	35.74	
	Pipe Connector and Bracket				
	♥	61	4T823B	5	32.36
	♥	61	4T823W	5	32.36
♥	61	4T823N	5	32.36	
	Drain Adaptor – Square to Round				
	♥	61	4T836B	10	29.32
♥	61	4T836W	5	29.32	
	Outlet Adaptor – Square to Round				
	♥	61	4T837B	5	36.57
♥	61	4T837W	5	36.57	
	Rainwater Adaptor 68mm pipe to 110mm PVC-U drain	–	4S149	10	31.83
	Rainwater Adaptor 68mm pipe to 110mm PVC-U drain	–	0T149B	5	40.00
	♥	–	0T149B	5	40.00















Wavin Osma SquareLine

Rainwater square – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Universal Drain Adaptor	–	4S159	10	33.93
Bends, Shoe and Wall Offsets					
	Offset Bend – socket				
	▽	61	4T825B	20	20.49
	▽	61	4T825W	20	20.49
	Offset Bend – spigot				
	▽	61	4T826B	10	25.42
	▽	61	4T826W	10	25.42
	Pipe Bend – 87.5°				
	▽	61	4T862B	5	43.73
	▽	61	4T862W	5	43.73
	Pipe Shoe and Bracket				
	▽	61	4T832B	5	30.36
	▽	61	4T832W	5	30.36
	Pipe Wall Offset				
	▽	61	4T838B	10	41.11
	▽	61	4T838W	10	41.11
	Pipe Wall Offset				
	▽	61	4T838N	10	41.11
	▽	61	4T838W	10	41.11
Branch and Hopper Head					
	Pipe Branch – 67.5°				
	▽	61	4T835B	5	84.00
	▽	61	4T835W	5	84.00
	Hopper Head				
	▽	61	4T835N	5	84.00
	▽	61	4T830B	5	105.96
	Hopper Head				
	▽	61	4T830W	5	105.96
	▽	61	4T830N	5	105.96
Spares					
	Gutter Seal	100	4T864B	5	5.36
	Flexiclip				
	▽	100	4T816B	1	5.00
	▽	100	4T816W	1	5.00
	Gutter Pad – narrow				
	▽	100	4T816N	1	5.00
	▽	100	4T860G	10	5.59
	Gutter Pad – wide				
	▽	100	4T861G	10	5.47










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	146.72
		111	8T874W	4	146.72
Gutter Unions and Brackets					
	Gutter Jointing Bracket				
	▽	111	8T809B	10	31.39
	▽	111	8T809W	10	31.39
	Gutter Support Bracket				
	▽	111	8T819B	10	11.65
	▽	111	8T819W	10	11.65
	Gutter Hanging Bracket				
	▽	111	8T849B	20	15.49
	▽	111	8T849W	20	15.49
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	8.91
Outlets and Stopends					
	Running Outlet				
	▽	111	8T806B	5	41.89
	▽	111	8T806W	5	41.89
	Stopend Outlet (left hand)				
	▽	111	8T807B	5	38.82
	▽	111	8T807W	5	38.82
	Stopend Outlet (right hand)				
	▽	111	8T808B	5	38.82
	▽	111	8T808W	5	38.82
	Stopend – internal (left hand)				
	▽	111	8T840B	5	17.65
	▽	111	8T840W	5	17.65
	Stopend – internal (right hand)				
	▽	111	8T850B	5	17.65
	▽	111	8T850W	5	17.65
	Stopend – external (left hand)				
	▽	111	8T841B	10	24.68
	▽	111	8T841W	10	24.68
	Stopend – external (right hand)				
	▽	111	8T851B	10	24.68
	▽	111	8T851W	10	24.68
Gutter Angles					
	Angle – 90° (internal)				
	▽	111	8T843B	5	46.18
	▽	111	8T843W	5	46.18
	Angle – 90° (external)				
	▽	111	8T853B	5	41.10
	▽	111	8T853W	5	41.10

Wavin Osma StormLine









Rainwater ogee – PVC-U

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Angle – 45° (internal)	111	8T844B	5	48.59
	▽	111	8T844W	5	48.59
	Angle – 45° (external)	111	8T854B	5	48.59
	▽	111	8T854W	5	48.59
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	46.04
	Build-in Spike	–	0T985B	10	22.15
	– 200mm long – 300mm long	–	0T986B	10	33.27
	Drive-in Spike	–	0T988B	10	18.48
	– 200mm long – 300mm long	–	0T989B	10	24.80
Rafter Brackets (BZP)					
	Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	47.67
	Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	44.03
Spares					
	Gutter Seal	111	8T864B	1	4.47
	Flexiclip	111	8T816B	1	4.71
	▽	111	8T816W	1	4.71

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	118.51
	▽	113	9T974G	5	118.51
	▽	113	9T974W	5	118.51
	▽	113	9T974N	5	118.51
	▽	113	9T974AG	5	118.51
Gutter Union and Brackets					
	Gutter Union				
	▽	113	9T909B	5	25.89
	▽	113	9T909G	5	25.89
	▽	113	9T909W	5	25.89
	▽	113	9T909N	5	25.89
	▽	113	9T909AG	5	25.89
	Gutter Support Bracket				
	▽	113	9T919B	40	9.03
	▽	113	9T919G	20	9.03
	▽	113	9T919W	20	9.03
	▽	113	9T919N	20	9.03
	▽	113	9T919AG	20	9.03
	Gutter Bracket Spacer				
	– 21mm projection	–	OT044B	20	8.91
	Angled Bracket Spacer				
		–	OT045B	10	20.59
Outlet and Stopends					
	Running Outlet				
	▽	113	9T906B	5	31.82
	▽	113	9T906G	5	31.82
	▽	113	9T906W	5	31.82
	▽	113	9T906N	5	31.82
	▽	113	9T906AG	5	31.82
	Stopend – internal				
	▽	113	9T910B	5	11.31
	▽	113	9T910G	5	11.31
	▽	113	9T910W	5	11.31
	▽	113	9T910N	5	11.31
	▽	113	9T910AG	5	11.31
	Stopend – external				
	▽	113	9T911B	5	15.92
	▽	113	9T911G	5	15.92
	▽	113	9T911W	5	15.92
	▽	113	9T911N	5	15.92
	▽	113	9T911AG	5	15.92

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	41.17
	113	9T903G	5	41.17
	113	9T903W	5	41.17
	113	9T903N	5	41.17
	113	9T903AG	5	41.17
 Angle – 45° ♡ ♡ ♡ ♡ ♡	113	9T904B	5	47.17
	113	9T904G	5	47.17
	113	9T904W	5	47.17
	113	9T904N	5	47.17
	113	9T904AG	5	47.17
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	41.94
	113	9T994G	10	41.94
	113	9T994AG	10	41.94
 Build-in Spike – 200mm long – 300mm long	–	0T985B	10	22.15
	–	0T986B	10	33.27
 Drive-in Spike – 200mm long – 300mm long	–	0T988B	10	18.48
	–	0T989B	10	24.80
Rafter Brackets (BZP)				
 Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	47.67
	 Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20
Spares				
 Gutter Seal  Flexiclip ♡ ♡ ♡ ♡ ♡	113	9T964B	10	4.27
	113	9T916B	1	4.36
	113	9T916G	1	4.36
	113	9T916W	1	4.36
	113	9T916N	1	4.36
	113	9T916AG	1	4.36








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	156.22
	Gutter Union and Brackets Gutter Union ▽	125	5T509B	5	31.15
	Gutter Support Bracket ▽	125	5T519B	5	11.38
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	8.91
	Angled Bracket Spacer	–	0T045B	10	20.59
	Outlet and Stopends Running Outlet ▽	125	5T508B	5	46.53
	Stopend – internal ▽	125	5T510B	5	15.14
	Stopend – external ▽	125	5T511B	5	22.81
	Gutter Angles Angle – 90° ▽	125	5T503B	5	52.07
	Angle – 45° ▽	125	5T504B	5	59.33
	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	50.10
	Build-in Spike – 200mm long – 300mm long	– –	0T985B 0T986B	10 10	22.15 33.27
	Drive-in Spike – 200mm long – 300mm long	– –	0T988B 0T989B	10 10	18.48 24.80

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	54.04
 Side Rafter Bracket – 300mm long	125	5T596B	10	57.18
 Rafter Bracket (BZP) Adjustable Top Rafter Bracket – 300mm long	–	0T147G	20	47.67
 Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	44.03
 Rainwater Hopper Hopper Head	110	4S326B	5	185.60
 Spares Gutter Seal	125	5T564B	10	6.06
 Flexiclip ▼	125	5T516B	1	5.34

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	6T674B	5	315.03
	♥ ♥	150	6T674G	5	315.03
	Gutter Union and Bracket Gutter Union	150	6T609B	5	83.74
	♥ ♥	150	6T609G	5	83.74
	Gutter Support Bracket	150	6T619B	10	29.32
	♥ ♥	150	6T619G	10	29.32
	Gutter Bracket Spacer – 21mm projection	–	0T044B	20	8.91
Outlet and Stopends					
	Running Outlet	150	6T606B	5	114.99
	♥ ♥	150	6T606G	5	114.99
	Stopend – internal	150	6T610B	5	19.71
	♥ ♥	150	6T610G	5	19.71
	Stopend – external	150	6T611B	5	57.05
	♥ ♥	150	6T611G	5	57.05
Gutter Angles					
	Angle – 90°	150	6T603B	5	161.51
	♥ ♥	150	6T603G	5	161.51
	Fabricated angles to order	150	6T999	1	289.46
Rise and Fall Brackets and Spikes					
	Bow and Pin – for Rise and Fall Brackets (for use with Build-in or Drive-in Spikes)	150	6T694B	20	63.51
		150	6T694G	20	63.51
	Build-in Spike – 200mm long – 300mm long	– –	0T985B 0T986B	10 10	22.15 33.27
	Drive-in Spike – 200mm long – 300mm long	– –	0T988B 0T989B	10 10	18.48 24.80
Rafter Brackets (PVC coated steel)					
	Top Rafter Bracket – 300mm long	150	6T695B	10	59.29
	Side Rafter Bracket – 300mm long	150	6T696B	10	62.72

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	–	0T147G	20	47.67
 Adjustable Side Rafter Bracket – 300mm long	–	0T148G	20	44.03
 Rainwater Hopper Hopper Head	110	4S326B	5	185.60
	110	4S326G	5	185.60
 Spares Gutter Seal	150	6T664B	4	6.52
 Flexiclip ♡	150	6T616B	1	5.99
	150	6T616G	1	5.99

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
	S/S Pipe – 2.0m	110	4S042B	2	132.92
	▽△	110	4S042G	2	132.92
	S/S Pipe – 2.5m	110	4S050G	50	157.59
	▽△				
	S/S Pipe – 3.0m	82	3S043B	2	201.31
	▽	82	3S043G	2	201.31
	▽△	110	4S043B	2	174.74
	▽△	110	4S043G	2	174.74
	▽△	110	4S043W	2	174.74
	▽△	160	6S043G	2	650.83
	▽△				
	S/S Pipe – 4.0m	110	4S044B	2	235.75
	▽△	110	4S044G	2	235.75
	▽△	110	4S044W	2	235.75
	▽△	160	6S044G	2	846.85
	▽△				
	P/E Pipe – 3.0m	110	4S073B	2	168.11
	▽△	110	4S073G	2	168.11
	▽△	110	4S073W	2	168.11
	P/E Pipe – 4.0m	82	3S074G	2	262.57
	▽	110	4S074B	2	224.11
	▽△	110	4S074G	2	224.11
	▽△	110	4S074W	2	224.11
	▽△	160	6S074B	2	784.06
	▽△	160	6S074G	2	784.06
	▽△				
Brackets					
	Pipe Bracket	82	3S082B	5	18.09
	▽	82	3S082G	5	18.09
	▽	110	4S082B	10	15.47
	▽	110	4S082G	10	15.47
	▽	110	4S082W	10	15.47
	▽	160	6S082B	1	56.73
	▽	160	6S082G	1	56.73
	Socket Bracket	82	3S083B	5	24.06
	▽	82	3S083G	5	24.06
	▽	110	4S083B	5	20.61
	▽	110	4S083G	5	20.61
	▽	110	4S083W	5	20.61
	Pipe or Socket Bracket – BZP coated steel	110	4S084	10	44.67
	▽	160	6S084	1	94.24

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

Wavin OsmaSoil











Soil and Vent PVC-U Ring-seal system




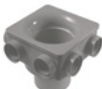






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Suspended Bracketing System					
(Not suitable for damp inaccessible voids)					
	Adjustable Pipe Bracket Assembly (pack containing threaded rod, threaded bracket, bracket plate and pipe/socket bracket) – BZP coated steel	110	4S086	1	145.14
	Adjustable 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	298.73
Sockets					
D/SW Double Socket					
	♥	110	4S104B	5	34.00
	♥	110	4S104G	5	34.00
	♥	110	4S104W	5	34.00
	♥	160	6S104B	1	82.40
	♥	160	6S104G	1	82.40
D/S Double Socket – for repairs					
	♥	82	3S105B	5	68.02
	♥	82	3S105G	5	68.02
	♥	110	4S105B	5	73.43
	♥	110	4S105G	5	73.43
	♥	110	4S105W	5	73.43
	♥	160	6S105G	1	206.89
S/SW Single Socket					
	♥	82	3S124B	5	39.66
	♥	82	3S124G	5	39.66
	♥	110	4S124B	5	35.41
	♥	110	4S124G	5	35.41
	♥	110	4S124W	5	35.41
	♥	160	6S124B	1	121.20
	♥	160	6S124G	1	121.20
D/S Acoustic Socket					
	♥	110	4S125B	5	53.79
	♥	110	4S125G	5	53.79
D/S Double Socket					
		110	4S205B	10	63.28
		110	4S205G	10	63.28
		110	4S205W	10	63.28
Connectors					
S/S Connector to CI soil socket					
	♥	110	4S106G	5	100.08

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	108.75
	Internal Drain Connector for 32mm/40mm waste pipe	110	4S298	5	35.95
	Internal Drain Connector – for 50mm waste pipe	110	4S299	5	41.38
Reducers					
	S/S Reducer – 82mm x 50mm	82	3S094B	5	83.10
	♥	82	3S094G	5	83.10
	Reducer – 110mm x 32mm waste	110	4S098G	5	82.36
	– 110mm x 40mm waste	110	4S097G	5	82.36
	S/S Reducer – 110mm x 50mm	110	4S096B	5	78.18
	♥	110	4S096G	5	78.18
	S/S Reducer – 110mm x 82mm	110	4S095B	5	71.71
	♥	110	4S095G	5	71.71
	S/S Reducer – 160mm x 110mm	160	6S099G	1	183.58
Bends					
	S/S Bend – 87.5°	82	3S161B	5	80.52
	♥	82	3S161G	5	80.52
	♥	110	4S161B	5	93.76
	♥	110	4S161G	5	93.76
	♥	110	4S161W	5	93.76
	♥	160	6S161G	1	317.52
	S/SW Bend – 87.5°	110	4S361G	5	92.30
	S/S Tight Radius Bend – 87.5°	110	4S160B	10	104.15
	♥	110	4S160G	10	104.15
	♥	110	4S160W	10	104.15

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	116.95
		110	4S561G	5	116.95
		110	4S561W	5	116.95
	S/S Bend – 76°	110	4S164B	5	133.53
		110	4S164G	5	133.53
	S/S Bend – 67.5°	110	4S162G	5	134.58
	S/S Bend – 45°	82	3S163B	5	80.52
		82	3S163G	5	80.52
		110	4S163B	5	93.76
		110	4S163G	5	93.76
		110	4S163W	5	93.76
		160	6S163G	1	317.52
	S/SW Bend – 45°	110	4S363B	5	92.30
		110	4S363G	5	92.30
		110	4S363W	5	92.30
	S/S Bend – 30°	110	4S166G	5	103.83
	S/S Bend – 15°	110	4S167G	5	119.49
Adjustable Bends					
	S/S Adjustable Bend – 30°	110	4S173G	1	117.80
	S/S Adjustable Bend – 90°	110	4S179G	1	133.20
Offset Bends					
	SW/S Offset Bend (bottom)	82	3S435G	5	83.90
		110	4S435B	5	87.50
		110	4S435G	5	87.50
		110	4S435W	5	87.50

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	S/SW Offset Bend (top)	82	3S440B	5	99.00
	♥	82	3S440G	5	99.00
	♥	110	4S440B	5	120.04
	♥	110	4S440G	5	120.04
	♥	110	4S440W	5	120.04
	♥	160	6S440G	1	354.82
	S/S Offset Bend	110	4S444B	5	120.04
	♥	110	4S444G	5	120.04
	♥	110	4S444W	5	120.04
	D/S Offset Bend	110	4S445B	5	133.53
	♥	110	4S445G	5	133.53
	♥	110	4S445W	5	133.53
Manifolds					
	6 Boss Manifold	110	4S597G	1	147.44
	OsmaLink Soil Manifold	110	4S595G	1	162.11
	All-Fit Reducer – 1½" / 40 x 1¼" / 32	40	4Z124W	10	14.70
	All-Fit Reduction Bend – 2" / 50 x 1½" / 40	50	2S355W	10	21.54
	All-Fit 90° Spigot Bend – 2" / 50	50	2S356W	5	35.45
Branches					
	S/S Single Branch – 87.5°	82	3S190B	5	143.32
	♥	82	3S190G	5	143.32
	♥	110	4S190B	5	132.35
	♥	110	4S190G	5	132.35
	♥	110	4S190W	5	132.35
	♥	160	6S190G	1	573.45
	S/S Single 5 Boss Branch – 87.5°	110	4S195B	5	171.55
	♥	110	4S195G	5	171.55
	♥	110	4S195W	5	171.55

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	148.77
	S/S Unequal Single Branch – 87.5° ♥	160	6S198G	1	441.95
	S/S Single Branch – 76° ♥	110	4S220B	1	191.97
	♥	110	4S220G	1	191.97
	S/S Single Branch – 67.5° ♥	110	4S200B	1	191.97
	♥	110	4S200G	1	191.97
	S/S Single Branch – 45° ♥	82	3S210G	5	143.32
	♥	110	4S210B	5	196.74
	♥	110	4S210G	5	196.74
	160x110mm ♥	160	6S218G	1	441.95
	160x160mm ♥	160	6S210G	1	573.45
	S/S Double Branch – 87.5° ♥	110	4S230B	1	330.96
	♥	110	4S230G	1	330.96
	♥	110	4S230W	1	330.96
	S/S Unequal Double Branch – 87.5° ♥	160	6S238G	1	781.02
	S/S Double Branch – 45° ♥	110	4S250G	1	412.58
	S/S Corner Branch – 87.5° ♥	110	4S291G	1	520.99
Boss Socket Adaptors					
	S/S Boss Adaptor (Ring-Seal) – for 1¼" / 32 plastic or copper pipe ♥	32	2S398B	10	18.52
	♥	32	2S398G	10	18.52
	♥	32	2S398W	5	18.52

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	18.52
	▽	40	2S399G	10	18.52
	▽	40	2S399W	10	18.52
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 plastic or copper pipe	50	2S402B	5	23.87
	▽	50	2S402G	5	23.87
	▽	50	2S402W	5	23.87
	S/S Boss Adaptor 90° (Ring-Seal) – for 2" / 50 BS EN 1329, 1455 and 1566 pipe	50	2S360G	10	26.28
	▽				
Bossed Pipes					
	S/S Bossed Pipe – plain with one boss socket	82	3S649B	10	76.85
	▽	82	3S649G	10	76.85
	S/S Bossed Pipe – for 1¼" / 32 plastic or copper pipe	110	4S581B	5	100.58
	▽ – NEW	110	4S581G	5	100.58
	S/S Bossed Pipe – for 1½" / 40 plastic or copper pipe	110	4S582B	5	80.56
	▽ – NEW	110	4S582G	5	80.56
	D/SW Bossed Pipe (Ring Seal) – for 1¼" / 32 plastic or copper pipe	110	4S583B	5	39.08
	▽	110	4S583G	5	39.08
	▽	110	4S583W	5	39.08
	D/SW Bossed Pipe (Ring Seal) – for 1½" / 40 plastic or copper pipe	110	4S584B	5	33.96
	▽	110	4S584G	5	33.96
	▽	110	4S584W	5	33.96
	D/SW Short Bossed Pipe	110	4S588B	5	33.70
		110	4S588G	5	33.70
	– NEW	110	4S588W	5	33.70
	S/S Bossed Pipe – plain with four boss sockets	110	4S589B	5	54.80
	▽	110	4S589G	5	54.80
	▽	110	4S589W	5	54.80

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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	65.31
	♥ ♥	110	4S590G	5	65.31
Strap Bosses					
	Strap Boss	82	3S319B	5	37.49
	♥	82	3S319G	5	37.49
	♥	110	4S319B	5	31.44
	♥	110	4S319G	5	31.44
	♥	110	4S319W	5	31.44
	Clip Boss For Push-fit or Solvent Waste – 32mm	110	4S322B	10	38.69
		110	4S322G	10	38.69
		110	4S322W	10	38.69
	For Push-fit or Solvent Waste – 40mm	110	4S321B	5	38.69
		110	4S321G	5	38.69
		110	4S321W	5	38.69
	Patch Boss For Push-fit or Solvent Waste – 50mm	160	6S323G	1	76.18
Access Fittings					
	S/S Access Bend – 87.5°	110	4S169B	5	220.59
	♥	110	4S169G	5	220.59
	♥	110	4S169W	5	220.59
	S/SW Access Bend – 87.5°	110	4S369G	5	253.47
	♥				
	S/S Access Branch – 87.5°	110	4S502B	1	298.73
	♥	110	4S502G	1	298.73
	S/S Access Pipe – with bolted door	82	3S274B	5	158.23
	♥	82	3S274G	5	158.23

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	158.76
	▽	110	4S274G	5	158.76
	▽	110	4S274W	1	158.76
	▽	160	6S274G	1	430.04
	S/SW Bossed Access Pipe – with screwed access and three boss sockets	110	4S374G	10	161.17
	Access Saddle	110	4S275B	1	86.37
	▽	110	4S275G	1	86.37
Plugs					
	P/E Access Plug	82	3S292B	5	78.33
	▽	82	3S292G	5	78.33
	▽	110	4S292B	1	73.30
	▽	110	4S292G	1	73.30
	▽	110	4S292W	1	73.30
	▽	160	6S292B	1	160.30
	P/E Socket Plug – with one boss socket	110	4S296B	5	51.67
	▽	110	4S296G	5	51.67
	▽	110	4S296W	5	51.67
Spares					
	Snap Cap	82	3S116B	1	4.71
		82	3S116G	1	4.71
		110	4S116B	1	15.20
		110	4S116G	1	15.20
		110	4S116W	1	15.20
	T Ring Seal	110	4S130G	5	10.95
		160	6S130G	5	19.43












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

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Soil and Vent PVC-U Solvent Weld system





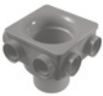






Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
  	Pipe				
	P/E Pipe – 3.0m				
	▽△	110	4S073B	2	168.11
	▽△	110	4S073G	2	168.11
	▽△	110	4S073W	2	168.11
	P/E Pipe – 4.0m				
	▽△	110	4S074B	2	224.11
	▽△	110	4S074G	2	224.11
	▽△	110	4S074W	2	224.11
	▽△	160	6S074B	2	784.06
▽△	160	6S074G	2	784.06	
  	Brackets				
	Pipe Bracket				
	▽	110	4S082B	10	15.47
	▽	110	4S082G	10	15.47
	▽	110	4S082W	10	15.47
	▽	160	6S082B	1	56.73
	▽	160	6S082G	1	56.73
	Socket Bracket				
	▽	110	4S083B	5	20.61
	▽	110	4S083G	5	20.61
▽	110	4S083W	5	20.61	
Pipe or Socket Bracket – BZP coated steel					
▽	110	4S084	10	44.67	
▽	160	6S084	1	94.24	
 	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	145.14
	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	298.73
 	Sockets				
	D/SW Double Socket				
	▽	110	4S104B	5	34.00
	▽	110	4S104G	5	34.00
	▽	110	4S104W	5	34.00
	▽	160	6S104B	1	82.40
	▽	160	6S104G	1	82.40
	D/S Double Socket – for repairs				
	▽	110	4S105B	5	73.43
	▽	110	4S105G	5	73.43
▽	110	4S105W	5	73.43	
▽	160	6S105G	1	206.89	










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	35.41
	▽	110	4S124G	5	35.41
	▽	110	4S124W	5	35.41
	▽	160	6S124B	1	121.20
	▽	160	6S124G	1	121.20
	D/S Acoustic Socket	110	4S125B	5	53.79
	▽	110	4S125G	5	53.79
Connectors					
	Connector to CI soil socket – synthetic rubber	110	4S206B	5	108.75
Reducers					
	SW/S Reducer – 110mm x 50mm	110	4S496B	5	70.53
	▽	110	4S496G	5	70.53
	S/S Reducer – 110mm x 82mm	110	4S095B	5	71.71
	▽	110	4S095G	5	71.71
	SW/S Reducer – 160mm x 110mm	160	6S499B	1	132.98
	▽	160	6S499G	1	132.98
Expansion Cap					
	– with integral ring-seal	110	4S416B	5	16.85
		110	4S416G	5	16.85
Bends					
	D/SW Bend – 87.5°	110	4S461B	5	92.19
	▽	110	4S461G	5	92.19
	▽	110	4S461W	5	92.19
	▽	160	6S461B	1	242.88
	▽	160	6S461G	5	242.88
	D/SW Bend – 67.5°	110	4S462B	5	99.75
	▽	110	4S462G	5	99.75
	D/SW Bend – 45°	110	4S463B	5	92.09
	▽	110	4S463G	5	92.09
	▽	160	6S463B	1	248.76
	▽	160	6S463G	5	248.76
	SW/S Bend – 45°	110	4S263B	5	99.75
	▽	110	4S263G	5	99.75

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Soil and Vent PVC-U Solvent Weld system

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Bend – 11.25°	110	4S268B	5	96.24
	▽	110	4S268G	5	96.24
	SW/S Long Tail Bend – 87.5°	110	4S260B	5	105.93
	▽	110	4S260G	5	105.93
Offset Bends					
	SW/S Offset Bend (bottom)	110	4S435B	5	87.50
	▽	110	4S435G	5	87.50
	▽	110	4S435W	5	87.50
	D/SW Offset Bend (top)	110	4S450B	5	97.65
	▽	110	4S450G	1	97.65
Manifold					
	6 Boss Manifold	110	4S597G	1	147.44
Branches					
	D/SW Single Branch – 87.5°	110	4S490B	5	130.34
	▽	110	4S490G	5	130.34
	▽	160	6S490B	1	414.69
	▽	160	6S490G	5	414.69
	SW/S Single Branch – 87.5°	110	4S290B	5	130.41
	▽	110	4S290G	5	130.41
	D/SW Single 5 Boss Branch – 87.5°	110	4S495B	5	135.66
	▽	110	4S495G	5	135.66
	D/SW Unequal Single Branch – 87.5°	160	6S498B	1	319.92
	▽	160	6S498G	5	319.92
	D/SW Single Branch – 45°	110	4S410B	5	147.33
	▽	110	4S410G	5	147.33
	D/SW Double Branch – 87.5°	110	4S430B	1	326.25
	▽	110	4S430G	5	326.25

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Corner Branch – 87.5°	110	4S491B	1	577.40
	▽	110	4S491G	5	577.40
Boss Socket Adaptors					
	SW/S Boss Adaptor (Solvent Weld)				
	– for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe	32	2S298B	10	17.22
	▽	32	2S298G	10	17.22
	▽	32	2S298W	10	17.22
	SW/S Boss Adaptor (Solvent Weld)				
	– 1½" / 40mm BS EN 1329, 1455 and 1566 pipe	40	2S299B	10	15.90
	▽	40	2S299G	10	15.90
	▽	40	2S299W	10	15.90
	SW/S Boss Adaptor (Solvent Weld)				
	– for 2" / 50mm BS EN 1329, 1455 and 1566 pipe	50	2S403B	5	18.97
	▽	50	2S403G	5	18.97
	▽	50	2S403W	5	18.97
Bossed Pipes					
	D/SW Bossed Pipe (Solvent Weld)				
	– for 1¼" / 32mm BS EN 1329, 1455 and 1566 pipe	110	4S483B	5	40.50
	▽	110	4S483G	5	40.50
	D/SW Bossed Pipe (Solvent Weld)				
	– 1½" / 40mm BS EN 1329, 1455 and 1566 pipe	110	4S484B	5	40.50
	▽	110	4S484G	5	40.50
	D/SW Bossed Pipe				
	– plain (four boss sockets)	110	4S586B	5	45.08
	▽	110	4S586G	5	45.08
	SW/S Bossed Pipe				
	– plain (four boss sockets)	110	4S585B	5	45.08
	▽	110	4S585G	5	45.08
	D/SW Short Bossed Pipe	110	4S588B	5	33.70
		110	4S588G	5	33.70
		110	4S588W	5	33.70


















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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	65.31
	♥	110	4S590G	5	65.31
Strap Boss					
	♥	110	4S319B	5	31.44
	♥	110	4S319G	5	31.44
	♥	110	4S319W	5	31.44
Access Fittings					
	D/SW Access Bend – 87.5°				
	♥	110	4S469B	5	232.37
	♥	110	4S469G	5	232.37
	D/SW Access Branch – 87.5°				
	♥	110	4S493B	1	247.35
	SW/S Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S574B	5	154.51
	♥	110	4S574G	1	154.51
	♥	160	6S474B	1	350.30
	♥	160	6S474G	1	350.30
	D/SW Bossed Access Pipe – with screwed access and three boss sockets				
	♥	110	4S474B	5	154.51
	♥	110	4S474G	5	154.51
	Access Saddle				
	♥	110	4S275B	1	86.37
	♥	110	4S275G	1	86.37
Plugs					
	P/E Access Plug				
	♥	82	3S292B	5	78.33
	♥	82	3S292G	5	78.33
	♥	110	4S292B	1	73.30
	♥	110	4S292G	1	73.30
	♥	110	4S292W	1	73.30
	♥	160	6S292B	1	160.30
	♥	160	6S292G	1	160.30
	SW/S Access Plug				
	♥	110	4S492B	5	92.34
	♥	110	4S492G	1	92.34
	P/E Socket Plug – with one boss socket				
	♥	110	4S296B	5	51.67
	♥	110	4S296G	5	51.67
	♥	110	4S296W	5	51.67



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	467.21
	S/SW Manifold Branch – 8° (LH) ▽	110	4S602W	1	467.21
	(RH) ▽	110	4S612W	1	467.21
	S/SW Manifold Branch – 15.5° (LH) ▽	110	4S603W	1	467.21
	(RH) ▽	110	4S613W	1	467.21
	S/SW Manifold Branch – 23° (LH) ▽	110	4S604W	1	467.21
	(RH) ▽	110	4S614W	1	467.21
	S/SW Manifold Branch – 30.5° (LH) ▽	110	4S605W	1	467.21
	(RH) ▽	110	4S615W	1	467.21
	S/SW Manifold Branch – 38° (LH) ▽	110	4S606W	1	467.21
	(RH) ▽	110	4S616W	1	467.21
WC Connectors (for WCs to BS 5503)					
	P/E WC Connector – 2.5° ▽	110	4S791W	10	70.98
	P/E WC Connector – 14° ▽	110	4S711W	5	84.17
	P/E WC Connector – 90° ▽	110	4S771W	10	120.43
	SW/S WC Connector – 90° ▽	110	4S772W	10	104.52
WC Gaskets					
	WC Gasket – for WC spigots from 4" to 4¼"	110	4S121W	10	43.20
	WC Gasket – for WC spigots from 4¼" to 4½"	110	4S120W	10	40.50

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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	120.04
 P/E Pipe – 600mm length ♻️ ♻️	110	4S600W	1	75.45










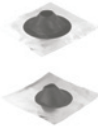





WC connectors – Easy-fit

Description	Nom dia inch	Cat no	Pack qty	Price £ per piece
 Easy-Fit Pan Connectors	4in	WC004W	1	37.88
 Style 1 – Offset	4in	WC204W	1	46.20
 Style 90°	4in	WC904W	1	53.98
 Straight Extension Piece	4in	WC404W	1	46.29

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Ancillaries

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Terminal Fittings					
	Balloon Grating	82	3S302B	5	28.51
		82	3S302G	5	28.51
		110	4S302B	5	21.71
		110	4S302G	5	21.71
		110	4S302W	5	21.71
		160	6S302G	1	81.41
	Weathering Collar	82	3S300B	5	32.52
		82	3S300G	5	34.43
		110	4S300B	5	30.35
		110	4S300G	5	30.35
		110	4S300W	5	30.35
	SW/S Vent Cowl				
	▽	110	4S310B	1	109.62
	▽	110	4S310G	1	109.62
	Flexible Vent Pipe				
	– connects to ridge tile adaptor. Length 500mm				
		110	4S308B	1	265.02
Air Admittance Valves					
	OsmaVent 40 Air Admittance Valve				
	– fits 1¼" / 32mm and 1½" / 40mm pipe				
		40	4S303W	1	164.27
	OsmaVent Air Admittance Valve				
	– can also be adapted to fit 82mm soil				
		110	4S304W	1	371.23
	Domestic Air Admittance Valve All				
		110	4S306G	1	241.07
Pipe Flashings					
	VariPitch Pipe Flashing				
	– 400mm x 400mm – for flat roofs		4S281G	1	295.25
	– 450mm x 450mm – for pitched roofs		4S283G	1	284.39
Roof Outlets					
	SW/S Domed Roof Outlet	82	3S414G	1	275.84
		110	4S414G	1	306.02
Rainwater Hopper and Shoe					
	Hopper Head	82	3S530B	1	220.60
		110	4S326B	5	185.60
		110	4S326G	5	185.60
	S/S Rainwater Pipe Shoe	82	3S288B	5	105.37
		110	4S288B	1	157.27
		110	4S288G	1	157.27







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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	–	4S380G	12	39.01
	Solvent Cement No. 2 – 125ml can ♡	–	4S383G	24	45.20
	– 250ml can ♡	–	4S384G	24	60.84
	– 500ml can ♡	–	4S385G	12	132.45
	Solvent Cement Filler – 125ml tube	–	4S394G	10	64.11
	Silicone Lubricant – 50g tube	–	4S391G	5	50.77
	Silicone Lubricant Spray – 400ml can	–	4S392	1	88.41







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	36.15
	32	4Z073W	10	36.15
	40	5Z073B	10	44.65
	40	5Z073W	10	44.65
	50	2Z073B	10	57.27
	50	2Z073W	10	57.27
 P/E Pipe – 4.0m	32	4Z074G	10	48.18
	40	5Z074G	10	59.44
	50	2Z074G	10	76.35
Bracket				
 Pipe Bracket	32	4Z081B	30	2.42
	32	4Z081G	30	2.42
	32	4Z081W	30	2.42
	40	5Z081B	30	2.43
	40	5Z081G	30	2.43
	40	5Z081W	30	2.43
	50	2Z081B	20	4.97
	50	2Z081G	10	4.97
	50	2Z081W	10	4.97
Sockets				
 Double Socket	32	4Z104B	20	6.81
	32	4Z104G	10	6.81
	32	4Z104W	20	6.81
	40	5Z104B	30	7.00
	40	5Z104G	30	7.00
	40	5Z104W	30	7.00
	50	2Z104B	10	13.97
	50	2Z104G	5	13.97
	50	2Z104W	5	13.97
 Expansion Socket – with solvent socket tail	32	4Z124G	10	14.70
	32	4Z124W	10	14.70
	40	5Z124G	10	13.97
	40	5Z124W	10	13.97
	50	2Z124W	5	24.28
Bends				
 Knuckle Bend – 90°	32	4Z160B	10	9.07
	32	4Z160G	10	9.07
	32	4Z160W	10	9.07
	40	5Z160B	20	10.72
	40	5Z160G	20	10.72
	40	5Z160W	20	10.72
	50	2Z160B	10	16.79
	50	2Z160G	5	16.79
	50	2Z160W	5	16.79

Wavin OsmaWeld











ABS Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Spigot Bend – 90°	32	4Z260B	15	12.36
	♥	32	4Z260G	15	12.36
	♥	32	4Z260W	15	12.36
	♥	40	5Z260B	15	12.00
	♥	40	5Z260G	15	12.00
	♥	40	5Z260W	15	12.00
	♥	50	2Z260B	10	15.23
	♥	50	2Z260G	10	15.23
	♥	50	2Z260W	10	15.23
	Bend – 87.5°	32	4Z161B	10	9.53
	♥	32	4Z161G	10	9.53
	♥	32	4Z161W	25	9.53
	♥	40	5Z161B	10	11.39
	♥	40	5Z161G	10	11.39
	♥	40	5Z161W	10	11.39
	♥	50	2Z161B	5	17.79
	♥	50	2Z161G	5	17.79
	♥	50	2Z161W	5	17.79
	Bend – 45°	32	4Z163B	20	8.53
	♥	32	4Z163G	20	8.53
	♥	32	4Z163W	20	8.53
	♥	40	5Z163B	20	9.53
	♥	40	5Z163G	20	9.53
	♥	40	5Z163W	20	9.53
	♥	50	2Z163B	10	18.22
	♥	50	2Z163G	5	18.22
	♥	50	2Z163W	5	18.22
	Bend – 45° – male and female	32	4Z263B	5	7.26
	♥	32	4Z263W	5	7.26
	♥	40	5Z263B	10	8.43
	♥	40	5Z263G	10	8.43
	♥	40	5Z263W	10	8.43
	Long Tail Bend – 87.5°	50	2Z359G	5	28.38
Tees					
	Tee – 87.5°	32	4Z190B	10	11.31
	♥	32	4Z190G	10	11.31
	♥	32	4Z190W	10	11.31
	♥	40	5Z190B	5	11.91
	♥	40	5Z190G	5	11.91
	♥	40	5Z190W	5	11.91
	♥	50	2Z190B	10	24.53
	♥	50	2Z190G	5	24.53
	♥	50	2Z190W	5	24.53

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Tee – 45°	32	4Z210W	10	17.90
	♥	40	5Z210B	5	21.77
	♥	40	5Z210G	5	21.77
	♥	40	5Z210W	5	21.77
	♥	50	2Z210B	5	31.76
	♥	50	2Z210G	5	31.76
	♥	50	2Z210W	5	31.76
	Cross Tee Cross – 87.5°	40	5Z230W	5	38.35
	♥	50	2Z230W	5	58.07
	♥				
	Plug Access Plug	32	4Z292B	10	9.67
	♥	32	4Z292G	5	9.67
	♥	32	4Z292W	5	9.67
	♥	40	5Z292B	15	10.17
	♥	40	5Z292G	15	10.17
	♥	40	5Z292W	15	10.17
	♥	50	2Z292B	5	18.00
	♥	50	2Z292G	5	18.00
	♥	50	2Z292W	5	18.00
Connectors and Adaptors					
	Straight Adaptor – Push fit to solvent weld	32	4Z120W	10	9.91
	♥	40	5Z120W	10	9.91
	Straight Tank Connector	32	4Z185W	10	23.76
	♥	40	5Z185W	5	24.62
	Universal Connector – for BS EN 1329, 1451, 1455 and 1566 pipe	32	4W102B	10	13.51
	♥	32	4W102G	10	13.51
	♥	32	4W102W	10	13.51
	♥	40	5W102B	5	13.51
	♥	40	5W102G	5	13.51
	♥	40	5W102W	5	13.51
	Male Cap and Liner – male threaded component	32	4Z363W	10	14.65
	♥	40	5Z363W	10	14.65
	Female Cap and Liner – female threaded component	32	4Z364W	5	9.52
	♥	40	5Z364W	5	10.72
	Male Iron Connector – SW/S and BSPT spigot	32	4Z128W	5	18.86
	♥	40	5Z128W	10	19.94
	♥	50	2Z128W	5	24.86







Wavin OsmaWeld

ABS Solvent Weld waste

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Reducers					
	Socket Reducer	50	2Z088B	10	12.00
	– 2"/50mm x 1¼"/32mm	50	2Z088G	5	12.00
		50	2Z088W	5	12.00
	Socket Reducer	50	2Z086B	10	11.72
	– 2"/50mm x 1½"/40mm	50	2Z086G	5	11.72
		50	2Z086W	5	11.72
	Socket Reducer	40	5Z455B	10	6.40
	– 1½"/40mm x 1¼"/32mm	40	5Z455G	10	6.40
		40	5Z455W	10	6.40
	Waste to Overflow Reducer	32	1E344B	5	10.72
	– 32x21.5mm – solvent weld	32	1E344W	5	10.72
	– 40x21.5mm – solvent weld	40	1E346B	5	10.72
		40	1E346W	5	10.72
	Reducer to 21.5mm pipe	32	4Z343G	10	8.18
	– synthetic rubber				
	Reducer to 35mm copper pipe	40	5Z344G	10	8.43
	– synthetic rubber				
	Reducer	50	2Z347G	5	15.62
	– 2"/50mm x 1¼"/32mm – synthetic rubber				
	Reducer to 42mm copper pipe	50	2Z349G	5	14.79
	– synthetic rubber				
	Level Invert Reducer	40	5Z085B	5	8.53
	– 1½"/40mm x 1¼"/32mm	40	5Z085G	5	8.53
		40	5Z085W	5	8.53
	Air Admittance Valve OsmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	164.27







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	24.55
	♥	32	4W073G	10	24.55
	♥	32	4W073W	10	24.55
	♥	40	5W073B	10	28.42
	♥	40	5W073G	10	28.42
	♥	40	5W073W	10	28.42
	♥	50	2W073G	5	47.78
♥	50	2W073W	5	47.78	
	Bracket Pipe Bracket				
	♥	32	4W081B	30	2.17
	♥	32	4W081G	30	2.17
	♥	32	4W081W	30	2.17
	♥	40	5W081B	30	2.05
	♥	40	5W081G	30	2.05
	♥	40	5W081W	30	2.05
	♥	50	2W081G	20	3.56
♥	50	2W081W	20	3.56	
	Socket Double Socket				
	♥	32	4W105B	15	7.07
	♥	32	4W105G	15	7.07
	♥	32	4W105W	15	7.07
	♥	40	5W105B	15	7.54
	♥	40	5W105G	15	7.54
	♥	40	5W105W	15	7.54
	♥	50	2W105G	5	12.78
♥	50	2W105W	5	12.78	
	Bends Knuckle Bend – 90°				
	♥	32	4W160B	10	6.55
	♥	32	4W160G	10	6.55
	♥	32	4W160W	10	6.55
	♥	40	5W160B	30	6.56
	♥	40	5W160G	30	6.56
	♥	40	5W160W	30	6.56
	♥	50	2W160G	5	12.78
♥	50	2W160W	5	12.78	
	Bend – 87.5°				
	♥	32	4W161B	10	7.07
	♥	32	4W161G	10	7.07
	♥	32	4W161W	10	7.07
	♥	40	5W161B	10	7.07
	♥	40	5W161W	10	7.07
	Bend – 45°				
	♥	32	4W163B	15	7.07
	♥	32	4W163G	15	7.07
	♥	32	4W163W	15	7.07
	♥	40	5W163B	20	6.55
	♥	40	5W163G	20	6.55
	♥	40	5W163W	20	6.55
	♥	50	2W163G	5	13.51
♥	50	2W163W	5	13.51	

Wavin Osma Waste












PP Push-fit waste










Description		Nom dia mm	Cat no	Pack qty	Price £ per piece	
	Spigot Bend – 30°	32	4W166B	10	6.55	
	▽	32	4W166W	10	6.55	
	▽	40	5W166B	5	6.55	
	▽	40	5W166G	5	6.55	
	▽	40	5W166W	5	6.55	
	Spigot Bend – 90°	32	4W260B	10	7.54	
	▽	32	4W260G	10	7.54	
	▽	32	4W260W	10	7.54	
	▽	40	5W260B	10	7.54	
	▽	40	5W260G	10	7.54	
	▽	40	5W260W	10	7.54	
	▽	50	2W260W	5	12.48	
	Tee					
	Tee – 87.5°	32	4W190B	15	7.54	
	▽	32	4W190G	15	7.54	
	▽	32	4W190W	15	7.54	
	▽	40	5W190B	10	6.56	
	▽	40	5W190G	10	6.56	
	▽	40	5W190W	10	6.56	
	▽	50	2W190G	5	12.48	
▽	50	2W190W	5	12.48		
	Plug					
	Access Plug	32	4W292B	5	7.07	
	▽	32	4W292G	5	7.07	
	▽	32	4W292W	5	7.07	
	▽	40	5W292B	5	6.55	
	▽	40	5W292G	5	6.55	
	▽	40	5W292W	5	6.55	
	▽	50	2W292G	10	12.78	
▽	50	2W292W	10	12.78		
	Connectors and Adaptors					
	Universal Connector – for BS EN 1329, 1451, 1455 and 1566 pipe	32	4W102B	10	13.51	
	▽	32	4W102G	10	13.51	
	▽	32	4W102W	10	13.51	
	▽	40	5W102B	5	13.51	
	▽	40	5W102G	5	13.51	
	▽	40	5W102W	5	13.51	
	▽	50	2W102G	10	12.99	
		Tank Connector	40	5W185B	5	8.40
		▽				

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Reducers Reducer – 1½" / 40mm x 1¼" / 32mm	40	5W084B	5	6.55
		40	5W084G	5	6.55
		40	5W084W	5	6.55
	Reducer – 2" / 50mm x 1¼" / 32mm	50	2W088G	5	11.16
		50	2W088W	5	11.16
	Reducer – 2" / 50mm x 1½" / 40mm	50	2W086G	5	12.48
		50	2W086W	5	12.48
	Reducer 32 x 21.5mm – Push-fit 40 x 21.5mm – Push-fit	32	1C344W	5	10.72
		40	1C346W	10	10.72
	Air Admittance Valve OsmaVent 40 Air Admittance Valve – fits 1¼" / 32mm and 1½" / 40mm pipe	40	4S303W	1	164.27

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	48.34
<hr/>					
	Bottle Traps Bottle Trap – 38mm seal	32 40	4V809W 5V809W	1 1	39.26 52.15
	Bottle Trap – 75mm seal	32 40	4V812W 5V812W	1 1	48.90 59.82
	Anti-Syphon Bottle Trap – 75mm seal	32 40	4V814W 5V814W	1 1	65.16 82.26
	Resealing Bottle Trap – 75mm seal	32 40	4V816W 5V816W	1 1	65.16 82.28
	Adjustable Bottle Trap – 75mm seal	32 40	4V808W 5V808W	1 1	70.61 84.68
<hr/>					
	Tubular Traps Tubular 'P' Trap – 75mm seal	32 40	4V801W 5V801W	1 1	37.44 42.58
	Tubular 'S' Trap – 75mm seal	32 40	4V803W 5V803W	1 1	45.80 68.62
	Adjustable Tubular 'P' Trap – 75mm seal	32 40	4V807W 5V807W	1 1	55.56 64.70
	Variform Trap – 75mm seal	32	4V804W	1	70.25
	Running 'P' Trap – 75mm seal	40	5V805W	1	75.14

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Straight Through Trap – 75mm seal	32	4V825W	1	62.36
	Swivel 'P' Trap	32	4V811W	10	33.34
		40	5V811W	10	36.20
Bath Traps					
	Bath Trap – 38mm seal	40	5V802W	1	49.80
	Bath Trap – shallow seal	32	4V806W	1	40.69
		40	5V806W	1	33.76
	Bath Trap – 75mm seal	40	5V846W	1	63.18
	Bath Trap and Overflow – 75mm	40	5V848W	1	158.88
	Anti-Syphon Bath Trap	40	5V842W	1	69.34
	Bath Trap Extended Body – 60mm seal	40	5V860W	1	139.55
Shower Traps					
	Shower Trap – 19mm seal	40	5V823W	1	82.05




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	247.07
	Rubber Boss Adaptor * – 2" / 50 plastic or copper pipe	32 40 50	2S498B 2S499B 2S503B	10 10 10	20.54 20.54 21.44
	* for use with Osma 2V502 Floor Gully only				
	Stainless Steel Tile and Grid	-	2V414G	1	282.21
	Gully Funnel	-	2V418G	1	45.95
<hr/>					
	Washing Machine Sink Traps				
	Washing Machine Half Trap – 75mm seal	40	5V864W	1	75.43
	Adjustable Sink Trap – 75mm seal	40	5V869W	1	110.72
	Tubular Swivel Sink Trap – 40mm x 75mm (adjustable) with 19/22mm connection	40	5V407W	1	97.91
	Washing Machine Trap Kit Includes stand pipe and 2 brackets – 75mm seal	40	5V870W	1	64.50
	Washing Machine Tee Piece	40	5V871W	1	30.51
<hr/>					
	Ancillaries				
	Conversion Bend – 90° – for "P" Trap to convert to "S" Trap	32 40	4A830W 5A830W	20 10	11.84 12.70










Wavin Osma Waste




Condensate drainage

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Connectors and Adaptors Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection</p>	40	5V407W	1	97.91
 <p>Tubular Swivel Trap – 40mm x 75mm (adjustable) with 21.5mm connection and washing machine nozzle</p>	40	5V468W	1	112.30
 <p>Reducer – to 21.5mm pipe – synthetic rubber</p>	32	4Z343G	10	8.18

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 3.0m Solvent 4.0m Push-fit	21.5 21.5	1E073W 1C074W	10 10	18.16 21.52
	Pipe Clip Solvent Push-fit	21.5	1E082W	10	2.59
	Double Socket				
	Solvent Push-fit	21.5 21.5	1E104W 1C104W	30 10	7.44 7.15
	Bends				
	Solvent – 90° Push-fit – 90°	21.5 21.5	1E160W 1C160W	10 30	7.70 6.95
	Solvent – 45° Push-fit – 45°	21.5 21.5	1E166W 1C163W	10 20	8.83 8.51
	Solvent – 25°	21.5	1E163W	10	8.83
	Tee				
	Solvent – 90° Push-fit – 90°	21.5 21.5	1E190W 1C190W	5 5	9.52 9.97
	Tank Connectors				
	Straight Tank Connector	21.5	1E129W	5	11.59
	Bent Tank Connector 90° Solvent 90° Push-fit – cut off bend to convert to straight connector	21.5 21.5	1E139W 1C139W	5 5	12.94 13.02
	Reducers				
	Reducer Solvent Weld				
	32x21.5mm	32	1E344B	5	10.72
	32x21.5mm	32	1E344W	5	10.72
	40x21.5mm	40	1E346B	5	10.72
	40x21.5mm	40	1E346W	5	10.72
Reducer Push-fit					
32x21.5mm	32	1C344W	5	10.72	
40x21.5mm	40	1C346W	10	10.72	

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Cap and Lining Cap and Lining</p>	21.5	1E156W	20	10.78
Adaptors				
 <p>Compression Fitting Adaptor – straight – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.</p>	21.5	1O158W	10	7.15
 <p>Compression Fitting Adaptor – 90° – for connection to BS 659 compression fitting and 23mm plastic overflow pipe.</p>	21.5	1O159W	10	8.51




Wavin Osma Hep_vO Waste

Hygienic self-sealing waste valves – Polypropylene

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Hep_vO Hygienic Self Sealing Waste Valve Hep _v O Valve	32 40	BV1 WH CV1 WH	10 10	54.12 54.12
	Hep_vO Knuckle Adaptor Hep _v O 87.5° Knuckle Adaptor	32 40	BV11 WH CV11 WH	10 10	13.66 13.66
	Hep_vO Running Adaptor For installing Hep _v O in a pipe run	32 40	BV3 WH CV3 WH	10 10	13.01 13.01
	Hep_vO Tundish Adaptor Hep _v O Tundish Adaptor Kit	32	BV1/21 WH	5	73.19

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 3.0m 6.0m 6.0m	32	FBP3 WH	1	65.03
	40	FCP3 WH	1	65.03
	32	FBP6 WH	1	129.92
	40	FCP6 WH	1	129.92
 Spigot Connectors – To Push-fit Waste  – To Solvent Weld Waste	40	FCW6 WH	1	5.30
	32	FSBW6 WH	10	5.30
	40	FSCW6 WH	10	5.30

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  – Short Nominal length 230mm, nominal extended length 670mm  – Extra Short Nominal length 195mm, nominal extended length 410mm	110	S170 WH	1	98.46
	110	S171 WH	1	94.38
	110	S172 WH	1	90.31

Condensate fitting

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Condensate Soakaway	21.5	S951 BL	1	71.32

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	39.33	
	0.15m	110	3080030	8	58.76	
	1.0m	110	3080033	1	70.82	
	2.0m	110	3080034	1	89.36	
	2.7m	110	3080035	1	99.72	
	3.0m	110	3080036	1	114.25	
	0.15m	160	3080044	2	98.71	
	3.0m	160	3080050	18	218.78	
	Couplers					
	Double Socket Coupler	50	3080016	18	12.39	
		110	3080012	8	40.72	
		160	3080014	6	78.58	
	Bends					
	Bends – 15°, 30°, 45°, 67°, 87°					
	15°	50	3079965	20	12.38	
	30°	50	3079966	18	12.38	
	45°	50	3079967	16	10.17	
	67°	50	3079968	12	12.38	
	87°	50	3079969	12	10.17	
	15°	110	3079950	8	39.54	
	30°	110	3079951	6	42.28	
	45°	110	3079952	8	44.61	
	67°	110	3079953	6	45.23	
	87°	110	3079954	4	46.39	
	15°	160	3079959	4	89.75	
	30°	160	3079960	4	92.23	
	45°	160	3079961	3	94.81	
	87°	160	3079962	3	101.79	
	Long Bend – 45°					
	45°	110	3080026	3	52.79	
	Branches					
	Branch – 45°					
	45°	50/50	3079996	6	22.22	
	45°	110/50	3079982	4	49.63	
	45°	110/110	3079981	2	75.22	
	45°	160/110	3079991	2	154.27	
	45°	160/160	3079994	1	212.95	
		Branch – 87°				
		87°	50/50	3079997	6	22.22
		87°	110/50	3079983	4	49.63
87°		110/70	3079985	4	55.50	
87°		110/110	3079980	4	134.89	
	87°	160/110	3079992	2	154.27	











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	252.35
	Corner Branch – 87°	110/110 /110	3080008	2	363.90
	Shower Double Branch – 87°	110/110 /50	3080095	2	165.91
	Shower Double Branch – 87° left	110/110 /50	3080096	2	165.91
	Shower Double Branch – 87° right	110/110 /50	3080097	2	165.91
<hr/>					
	Soil & Waste Connections				
	S/S Soil Manifold	110	3065902	1	137.16
	All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 3065902	40	4Z124W*	10	14.70
	All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 3065902	50	2S355W*	10	21.54
	All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 3065902	50	2S356W*	5	35.45
	Repair Coupler	110 160	3080088 3080090	8 6	28.17 82.06

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	17.14
		110	3080019	8	32.88
		160	3080021	3	80.28
	End Cap	50	3080106	24	11.50
		110	3080103	8	27.10
		160	3080105	8	99.67
	Reducer	110/50	3080078	6	28.21
		160/110	3080082	6	54.29
	Reducer	50/40	5Z124W	10	13.97
	Access Piece	50	3079917	6	44.92
		110	3079913	4	93.06
		160	3079915	2	220.84
Accessories					
	Wavin LKS-clamp	50	4065138	50	32.88
		110	4065141	20	32.88
		160	4065143	10	32.88
	Gasket EPDM	50	4065145	1	4.21
		110	4065188	1	3.51
		160	4065190	1	8.60
	Gasket NBR	50	4065192	1	4.21
		110	4025566	1	4.21
		160	4025568	1	4.21
	Wavin System Bracket	50	4066449	50	14.02
		110	4066452	25	20.04
		160	4066454	10	31.00
	Firecollar BM-R90	50	4026102	1	107.06
		110	4026106	1	159.72
		160	4026109	1	343.52











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	168.11
	P/E Pipe – 4.0m ♻️♻️	110	4S074E	2	224.11
	♻️♻️	160	6S074E	2	784.06
	S/S Pipe – 3.0m ♻️♻️	110	4S043E	2	174.74
	♻️♻️	160	6S043E	10	666.91
	S/S Pipe – 4.0m ♻️♻️	110	4S044E	2	241.57
	Brackets				
	Pipe Bracket ♻️	110	4S082E	20	15.47
	♻️	160	6S082E	1	56.73
	Socket Bracket ♻️	110	4S083E	5	20.61
	Sockets				
	D/SW Double Socket ♻️	110	4S104E	10	34.00
	♻️	160	6S104E	1	82.40
	S/SW Single Socket ♻️	110	4S124E	5	35.41
	♻️	160	6S124E	5	121.20
	D/S Double Socket – for repairs ♻️	110	4S105E	1	73.43
	♻️	160	6S105E	1	206.89
	D/S Acoustic Socket ♻️	110	4S125E	5	53.79
	Connector				
	S/S Connector to CI or clay drain socket ♻️	110	4S107E	5	61.59
	Reducers				
	SW/S Reducer 110mm x 50mm ♻️	110	4S496E	5	70.53
	♻️	160	6S499E	1	132.98
	S/S Reducer 110mm x 50mm ♻️	110	4S096E	5	78.18
	♻️	110	4S095E	5	71.71

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	16.85 42.22
Bends					
	D/SW Bend 87.5°				
	▽ ▽	110 160	4S461E 6S461E	5 1	92.19 242.88
	45°				
	▽ ▽	110 160	4S463E 6S463E	5 1	92.09 248.76
	SW/S Bend 45°				
	▽	110	4S263E	5	99.75
	11.25°				
	▽	110	4S268E	5	96.24
	SW/S Long Tail Bend – 87.5°				
	▽	110	4S260E	5	105.93
	S/S Bend 87.5°				
	▽	110	4S161E	5	93.76
Offset Bends					
	SW/S Offset Bend – 67.5° (Bottom)				
	▽	110	4S435E	5	87.50
	S/SW Offset Bend – 67.5° (Top)				
	▽	110	4S440E	5	120.04
	D/SW Offset Bend – 67.5° (Top)				
	▽	110	4S450E	5	97.65
	Adjustable Bend				
	S/S Adjustable Bend – 30° ▲	110	4S173E	1	117.80

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	17.22
	SW/S Boss Adaptor (Solvent Weld) – 1 1/2" / 40mm BS EN 1329, 1455 and 1566 pipe ▽	40	2S299E	10	15.90
	SW/S Boss Adaptor (Solvent Weld) – for 2" / 50mm BS EN 1329, 1455 and 1566 pipe ▽	50	2S403E	5	18.97
	Boss Adaptors S/S Boss Adaptor (Ring-Seal) – for 1 1/4" / 32 plastic or copper pipe ▽	32	2S398E	5	18.52
	S/S Boss Adaptor (Ring-Seal) – for 1 1/2" / 40 plastic or copper pipe ▽	40	2S399E	5	18.52
	S/S Boss Adaptor (Ring-Seal) – 2" / 50 plastic or copper pipe ▽	50	2S402E	5	23.87
	Branches D/SW Double Branch – 87.5° ▽	110	4S430E	1	326.25
	SW/S Corner Branch – 87.5° ▽	110	4S491E	1	577.40
	Access Branch D/SW Access Branch – 87.5° ▽	110	4S493E	1	247.35
	Single Branches D/SW Single Branch 45° ▽	110	4S410E	5	147.33
	SW/S Single Branch – 87.5° ▽	110	4S290E	5	130.41

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	130.34
	D/SW Unequal Single Branch – 87.5° ▽	160	6S498E	1	319.92
	D/SW Single Branch – 87.5° (No Bosses) ▽	160	6S490E	1	414.69
	Single 5-Boss Branch D/SW Single 5 Boss Branch – 87.5° ▽	110	4S495E	5	135.66
	Soil Manifolds 6 Boss Manifold	110	4S597E	1	147.44
	Manifolds Soil Manifold System ▽	110	4S595E	1	162.11
	All-Fit Reducer – 40:32mm – 1½" / 40 x 1¼" / 32 for use with 4S595E	40	4Z124W	10	14.70
	All-Fit Reduction Bend – 50:40mm – 2" / 50 x 1½" / 40 for use with 4S595E	50	2S355W	10	21.54
	All-Fit 90° Spigot Bend – 50mm – 2" / 50 for use with 4S595E	50	2S356W	5	35.45
	Bossed Pipes D/SW Short Bossed Pipe – NEW	110	4S588E	5	33.70
	D/SW Bossed Pipe – plain (four boss sockets) ▽	110	4S586E	5	45.08

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	SW/S Bossed Pipe – plain (four boss sockets) ▽	110	4S585E	5	45.08
	D/SW Bossed Pipe (Solvent Weld) – for 1¼” / 32mm BS EN 1329, 1455 and 1566 pipe ▽	110	4S483E	5	40.50
	– 1½” / 40mm BS EN 1329, 1455 and 1566 pipe ▽	110	4S484E	5	40.50
	Strap Boss Strap Boss ▽	110	4S319E	5	31.44
	Access Fittings D/SW Access Bend – 87.5° ▽	110	4S469E	5	232.37
	D/SW 3-Boss Access Pipe – with screwed access and three boss sockets ▽	110	4S474E	5	154.51
	SW/S 3-Boss Access Pipe – with screwed access and three boss sockets ▽	110	4S574E	5	154.51
	▽	160	6S474E ^Δ	5	350.30
	Plugs P/E Access Plug ▽	110	4S292E	1	73.30
	SW/S Access Plug ▽	110	4S492E	5	92.34
	P/E Socket Plug – with one boss socket ▽	110	4S296E	5	51.67
	Terminal Fittings Balloon Grating	110	4S302E	5	21.71

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	32.11
	SW/S Vent Cowl ▽	110	4S310E	1	109.62

Wavin Solvent Soil






Problem Solvers






	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Boss Adaptors Solvent Weld – 90°	40	2CS812SE	10	20.66
	▽	50	2CS813SE	10	29.38
	Solvent Weld – Straight	32	2CS814SE	10	17.22
	▽	40	2CS815SE	10	15.90
	▽	50	2CS816SE	10	18.97
	Push-fit – 90°	40	2CS802SE	10	29.38
	▽				
	Push-fit – Straight	32	2CS804SE	10	17.70
	▽	40	2CS805SE	10	17.70
	Double Branches D/SW Double 4-Boss Branch – 87.5°	110	4CS832SE	1	326.25
	▽				
	SW/S Double 4-Boss Branch – 87.5°	110	4CS834SE	1	326.25
	▽				
	Single Branch SW/S Single 5-Boss Branch – 87.5°	110	4CS895SE	5	135.66
	▽				
	Bossed Pipe D/SW Short 3-Boss Pipe	110	4CS588SE	1	33.70
	▽				

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	57.29
	32	4M073E	10	57.29
	32	4M073W	10	57.29
	40	5M073B	10	62.50
	40	5M073E	10	62.50
	40	5M073W	10	62.50
	50	2M073B	5	96.16
	50	2M073E	10	96.16
	50	2M073W	5	96.16
Bracket				
 Pipe Bracket ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡	32	4M081E	40	2.39
	40	5M081E	35	2.44
	50	2M081E	20	4.97
	32	4Z081B	30	2.42
	32	4Z081G	30	2.42
	32	4Z081W	30	2.42
	40	5Z081B	30	2.43
	40	5Z081G	30	2.43
	40	5Z081W	30	2.43
	50	2Z081B	20	4.97
	50	2Z081G	10	4.97
	50	2Z081W	10	4.97
Sockets				
 Double Socket ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡	32	4M104B	10	9.51
	32	4M104E	20	9.51
	32	4M104W	10	9.51
	40	5M104B	10	11.97
	40	5M104E	20	11.97
	40	5M104W	10	11.97
	50	2M104E	10	19.43
	50	2M104W	5	19.43
 Expansion Socket – with solvent socket tail ♡ ♡ ♡ ♡ ♡ ♡	32	4M124E	10	20.06
	32	4M124W	10	20.06
	40	5M124E	10	20.97
	40	5M124W	10	20.97
	50	2M124E	5	37.46
	50	2M124W	5	37.46
Bends				
 Knuckle Bend – 90° ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡ ♡	32	4M160B	30	14.20
	32	4M160E	30	14.20
	32	4M160W	30	14.20
	40	5M160B	30	16.71
	40	5M160E	30	16.71
	40	5M160W	30	16.71
	50	2M160B	5	29.83
	50	2M160E	5	29.83
	50	2M160W	5	29.83

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Bend – 87.5°				
	♥	32	4M161B	10	17.37
	♥	32	4M161E	10	17.37
	♥	32	4M161W	10	17.37
	♥	40	5M161B	40	20.97
	♥	40	5M161E	40	20.97
	♥	40	5M161W	40	20.97
	♥	50	2M161B	5	29.14
	♥	50	2M161E	5	29.14
	♥	50	2M161W	5	29.14
	Bend – 45°				
	♥	32	4M163B	10	13.19
	♥	32	4M163E	10	13.19
	♥	32	4M163W	10	13.19
	♥	40	5M163B	20	14.80
	♥	40	5M163E	20	14.80
	♥	40	5M163W	20	14.80
	♥	50	2M163B	5	25.05
	♥	50	2M163E	5	25.05
	♥	50	2M163W	5	25.05
	Spigot Bend – 90°				
	♥	32	4M260E	5	18.31
	♥	32	4M260W	5	18.31
	♥	40	5M260E	10	22.12
	♥	40	5M260W	10	22.12
	♥	50	2M260B	5	32.89
	♥	50	2M260E	5	32.89
	♥	50	2M260W	5	32.89
Tees					
	Tee – 87.5°				
	♥	32	4M190B	5	22.69
	♥	32	4M190E	5	22.69
	♥	32	4M190W	5	22.69
	♥	40	5M190B	15	25.86
	♥	40	5M190E	15	25.86
	♥	40	5M190W	15	25.86
	♥	50	2M190B	5	40.29
	♥	50	2M190E	5	40.29
♥	50	2M190W	5	40.29	
Plug					
	Access Plug				
	♥	32	4M292B	5	14.04
	♥	32	4M292E	5	14.04
	♥	32	4M292W	5	14.04
	♥	40	5M292B	5	13.79
	♥	40	5M292E	5	13.79
	♥	40	5M292W	5	13.79
	♥	50	2M292B	5	23.97
	♥	50	2M292E	5	23.97
♥	50	2M292W	5	23.97	

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 ♡ ♡ ♡ 2" / 50mm x 1¼" / 32mm ♡ ♡ ♡ 2" / 50mm x 1½" / 40mm ♡ ♡ ♡	40	5M455B	10	8.83
	40	5M455E	10	8.83
	40	5M455W	10	8.83
	50	2M458B	5	16.67
	50	2M458E	5	16.67
	50	2M458W	5	16.67
	50	2M456B	5	16.67
	50	2M456E	5	16.67
	50	2M456W	5	16.67

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	67.59
 PE Pipe – 5.0m	40	3003465	1	32.00
	50	3003466	1	37.91
	56	3003477	1	44.64
	63	3003467	1	52.16
	75	3003468	1	60.31
	90	3003458	1	89.87
	110	3003459	1	112.65
	125	3003460	1	162.05
	160	3003461	1	253.23
	200	3003462	1	337.71
	250	3003463	1	537.95
	315	3003464	1	836.18
Reducers				
 Concentric Reducer	50/40	3084576	40	5.39
	56/50	3003820	20	5.39
	63/40	3003796 ^Δ	20	7.29
	63/50	3003797 ^Δ	20	7.29
	63/56	3003798	20	5.37
	75/50	3003800 ^Δ	20	7.90
	75/63	3003801 ^Δ	20	7.90
	90/50	3003803 ^Δ	20	8.13
	90/63	3003804 ^Δ	20	9.92
	90/75	3003805 ^Δ	20	9.92
	110/50	3003807 ^Δ	10	9.92
	110/56	3003858	10	9.84
	110/63	3003808	10	9.92
	110/75	3003809	10	9.92
	110/90	3003810	10	9.84
	125/63	3003812 ^Δ	20	15.80
	125/110	3003815	10	15.80
	160/110	3003816	5	17.54
	160/125	3003817 ^Δ	5	17.54
	200/160	3018808*	1	111.51
	250/200	3018809*	1	293.03
	315/250	3018810*	1	405.92
 Eccentric Reducer	50/40	3003821	20	5.82
	56/50	3003841	20	6.37
	63/40	3003822Q ^Δ	20	6.69
	63/50	3003823Q	20	6.69
	63/56	3003842Q	20	6.69
	75/40	3003824	20	7.68
	75/50	3003825	20	7.70
	75/56	3003843	20	7.69
	75/63	3003826	20	7.70
	90/50	3003827Q ^Δ	20	9.47
	90/63	3003828	20	10.32








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	10.36
	110/40	3003830	20	11.25
	110/50	3003831	20	10.97
	110/56	3003835	20	11.22
	110/63	3003832	20	11.25
	110/75	3003833	20	11.26
	110/90	3003834	20	11.21
	125/75	3003836Q ^Δ	10	18.67
	125/90	3003837Q	10	18.67
	125/110	3003838Q	10	18.67
	160/110	3003839	5	24.57
	160/125	3003840	5	24.59
	 Eccentric Reducer – Long	200/110	3018811	5
200/125		3018812	1	178.58
200/160		3018813	1	178.58
250/200		3070632*	1	284.62
315/200		3014918*	1	405.92
315/250		3003856*	1	404.22
Elbows				
 Elbow 15°	110	3017993	20	40.63
	160	3043453 ^Δ	1	68.57
	200	3043454 ^Δ	1	78.93
	250	3043455 ^Δ	1	129.39
	315	3043457 ^Δ	1	185.59
 Elbow 30°	110	3003576	20	41.26
	160	3003584	5	63.07
 Elbow 45°	40	3084563	10	4.40
	50	3084565	10	4.45
	56	3003597	20	5.28
	63	3003569	20	6.72
	75	3003572	20	8.51
	90	3003574	20	12.35
	110	3003577	25	12.09
	125	3003582	10	19.81
	160	3003585	5	51.49
	200	3018820	5	143.18
 Elbow 45° Long Tail	250	3018821*	1	234.08
	315	3018822 ^Δ	1	323.57
	110	3075824 ^Δ	6	14.88


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	4.44
	50	3084566 [†]	10	5.91
	56	3003598	20	5.91
	63	3003570 [†]	20	7.40
	75	3003573 [†]	20	10.50
	90	3003575	20	14.97
	110	3003579 [†]	20	16.20
	125	3003583 [†]	10	26.01
	160	3003587 [†]	5	66.71
 Elbow 90° Welded	160	3003943	10	50.21
 Elbow 90° Segment Welded	200	3018818 [*]	1	247.69
	250	3017978 [*]	1	413.32
	315	3018819 ^{*Δ}	1	603.21
 Elbow 90° Extended	40	3084577	10	4.40
	50	3084567	10	5.25
	56	3003944	20	6.27
	63	3003601 ^Δ	20	9.26
	75	3003622	25	11.21
	90	3003602	25	14.97
	110	3003603	20	14.88
	125	3003605 ^Δ	10	27.35
 Airmix HDPE Airmix "sovent"	110	3003791 ^Δ	23	178.26
	160	4042219 ^Δ	10	608.64
 Branches Swept Branch 88.5°	110	3003792	10	24.70
	 Double Branch 45°	90/50	3018005 ^Δ	10
100/50		3003730 ^Δ	10	36.69
110/110		3003728	5	40.89




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	10.81
	50/40	3084574	25	11.21
	50/50	3084572	25	11.13
	56/50	3003725Q	20	10.20
	56/56	3003724	20	10.59
	63/40	3003635Q ^Δ	20	11.35
	63/50	3003637Q	20	11.98
	63/56	3003639Q	20	7.66
	63/63	3003633	20	11.69
	75/40	3003643Q	20	15.05
	75/50	3003645Q	20	14.29
	75/56	3003649	20	13.07
	76/63	3003647Q	20	9.97
	75/75	3003641	20	12.99
	90/40	3003654Q	10	19.55
	90/50	3003656Q	10	22.35
	90/63	3003658Q ^Δ	10	27.17
	90/75	3003660Q ^Δ	10	29.19
	90/90	3003651Q ^Δ	15	26.33
	110/40	3003664 ^Δ	10	21.69
	110/50	3003666	10	22.28
	110/56	3003674	10	21.59
	110/63	3003668	10	22.28
	110/75	3003670	10	22.50
	110/90	3003672Q ^Δ	10	27.39
	110/110	3003662	15	22.63
	125/50	3003678Q	10	40.44
	125/63	3003679 ^Δ	10	29.71
	125/75	3003681Q ^Δ	10	36.71
	125/90	3003683Q ^Δ	10	41.39
	125/110	3003685	10	29.71
	125/125	3003676 ^Δ	5	30.02
	160/110	3003688	5	103.36
	160/125	3003690 ^Δ	5	103.45
	160/160	4009725	5	102.01
	200/110	3070633*	5	222.43
	200/125	3018824Q ^Δ	1	241.09
	200/160	3070634*	5	232.30
	200/200	3070630*	5	333.53
	250/110	3003705*	1	372.33
250/125	3003707Q ^Δ	1	310.85	
250/160	3003709*	1	412.04	
250/200	3003710*	1	412.30	
250/250	3018826*	1	567.36	
315/110	3003723*	1	658.24	
315/125	3018827 ^Δ	1	487.02	
315/160	3018828*	1	657.81	
315/200	3003718*	1	688.89	
315/250	3003719*	1	697.44	
315/315	3018829*	1	832.12	

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	8.79
	50/40	3084575	20	11.22
	50/50	3084573	20	11.21
	56/50	3003726	20	11.21
	56/56	3003727	20	11.16
	63/50	3003638	20	11.60
	63/63	3003634 ^Δ	20	13.77
	75/50	3003646 ^Δ	20	13.71
	75/56	3003650	20	13.71
	75/63	3003648 ^Δ	20	17.47
	75/75	3003642	20	13.77
	90/40	3003655	10	17.54
	90/50	3003657	10	17.47
	90/63	3003659 ^Δ	10	17.47
	90/75	3003661 ^Δ	10	25.62
	90/90	3003652	10	17.43
	110/40	3003665	10	20.79
	110/50	3003667	10	20.79
	110/56	3003675	10	21.48
	110/63	3003669 ^Δ	10	21.48
	110/75	3003671	10	20.04
	110/90	3003673 ^Δ	10	21.48
	110/110	3003663	15	20.10
	125/110	3003686 ^Δ	10	29.90
	125/125	3003677	10	29.90
	160/110	3003689	5	111.69
	160/125	3003691 ^Δ	5	85.37
	160/160	3003687	5	110.56
	200/110	3003698 [*]	20	222.43
	200/125	3018830 ^Δ	1	222.43
	200/160	3003702 [*]	1	221.48
	200/200	3018831 [*]	1	221.48
	250/110	3018002 [*]	1	316.54
	250/125	3018832 ^Δ	1	316.54
	250/160	3018003 [*]	1	318.56
250/200	3018833 [*]	1	319.48	
250/250	3003704 [*]	1	318.34	
315/110	3018834 ^{+Δ}	1	372.33	
315/125	3003716 ^Δ	1	372.33	
315/160	3018835 ^{+Δ}	1	372.33	
315/200	3018836 ^{+Δ}	1	375.85	
315/250	3018837 ^{+Δ}	1	374.77	
315/315	3003713 ^{+Δ}	1	450.89	
 Boss Pipe Boss Pipe – Four Way Extended Spigot	110/56	3075823	6	64.15
 Extended 3-exits branch	110/110 /56	3097151	6	101.26

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	13.51
		50	2W102G*	10	12.99
	Expansion Socket – with Solvent Socket Tail	50	2Z124W*	5	24.28
	Long-Tail Bend – 87.5°	50	2Z359G*	5	28.38
	Rubber Boss Adaptor	56/32	4063088 ^A	1	15.98
		56/40	4063089 ^A	1	16.20
Brackets					
	Galvanised HDPE Bracket M10 Connection	40	4012113	10	6.45
		50	4012117	10	8.90
		56	4012001 ^A	1	9.13
		63	4012121 ^A	10	9.34
		75	4012125	10	9.71
		90	4012131	10	10.42
		110	4012137	10	11.41
		125	4012141	10	11.96
		160	4012146	10	13.32
	Bracket Insert	40	4012329	50	5.90
		50	4012331	50	11.84
		56	4012346 ^A	25	12.13
		63	4012333 ^A	50	14.20
		75	4012335	50	12.13
		90	4012337	50	12.47
		110	4012339	50	9.66
		125	4012341 ^A	50	13.14
		160	4012343	50	10.85
		200	4012345	20	46.33
		250	4023375	20	54.50
315	4023376	20	62.14		
	Galvanised HDPE Bracket	50 x 1/2"	4012118	10	10.36
		56 x 1/2"	4012002 ^A	50	11.35
		63 x 1/2"	4012122	10	11.35
		75 x 1/2"	4012126	10	11.45
		90 x 1/2"	4012132	10	13.11
		110 x 1/2"	4012138	10	13.24
		125 x 1/2"	4012142	10	13.07
		160 x 1/2"	4012147	10	16.20
		200 x 1"	4012151	10	48.28
		250 x 1"	4012155	10	48.93
		315 x 1"	4012159	10	56.98






* OAG discount applies.

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
	Mounting Plate	M10	4063092 ^Δ	50	8.45
	Steel Flange	1/2"	4012326	50	8.45
		1"	4009793	20	10.45
Fire Collar					
	Fire Collar EFM	40	4063766	1	29.82
		50	4063767	1	29.82
		63	4063768	1	29.82
		75/78	4063769	1	37.91
		90	4063770 ^Δ	1	37.91
		110	4026438	1	40.72
		125	4026439 ^Δ	1	42.27
		160	4063772	1	63.69
		200	4026441 ^Δ	1	207.87
		250	4026442 ^Δ	1	432.17
Spherical Branches					
	Spherical Branch, 2 Stubs Type A – 180°	110/110	3003755	5	75.52
	Type B – 90°	110/110	3003756	5	74.91
	Spherical Branch, 3 Stubs Type E – 90°	110/110	3003776 ^Δ	5	91.18
	Spherical Branch, 4 Stubs Type F – 90°	110/110	3003777	5	101.22
	Double Branch 90°	160/110	3095168	1	228.90
Access Tees					
	Access Tee 45°	110/110	3003739	5	64.36
		125	3003741 ^Δ	5	80.52
		160/110	3003743	5	159.06








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	34.75
	63	3003734 ^Δ	10	44.26
	75/75	3003736	10	48.48
	90	3003738Q ^Δ	10	67.09
	110/110	3003740	10	66.71
	125	3018815Q ^Δ	10	59.10
	160/110	3070631*	5	157.73
	200/110	3017974*	1	262.34
	250/110	3017975*	1	337.09
	315/110	3017976*	1	407.16
Toilet Connectors				
 Wall Mounted Toilet Connector	90/90	3003550 ^Δ	10	40.76
	110/110	3003554 ^Δ	10	39.75
 Wall Mounted Toilet Connector Elbow 90° for hanging toilets	90/90	3003619 ^Δ	10	76.52
	110/90	3018007 ^Δ	10	76.24
	110/110	3003620 ^Δ	10	76.02
Electro-fusion Coupler				
 – Universal Type (WAVIDUO)	40	4081515	30	10.14
	50	4081516	30	10.36
	56	4081517	30	10.38
	63	4081518	30	10.71
	75	4081519	30	14.92
	90	4081520	30	14.53
	110	4081521	30	15.26
	125	4081522	10	26.99
	160	4081523	10	34.93
	200	4061068	6	259.06
	250	4064881	2	433.52
	315	4064882	2	493.33
	Sockets, Caps and Flange Adaptors			
 Push-fit Socket with Gasket and Cap	40/40	3084561	10	7.44
	50/50	3084562	10	8.88
	56/56	3003493	20	9.91
	63/63	3003494 ^Δ	20	9.91
	75/75	3003495	20	14.10
	90/90	3003496 ^Δ	20	14.10
	110/110	3003497	20	17.90
	125/125	3003498 ^Δ	10	28.50
	160/160	3003499	18	56.20

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	19.62
		50/50	3003506	20	19.40
		56/56	3018008	15	18.53
		63/63	3003507	20	23.19
		75/75	3003508	20	24.63
		90/90	3003509	10	25.28
		110/110	3003510	20	25.91
		125/125	3003511 ^Δ	10	39.38
		160/160	3003512	5	71.50
		200/200	3003513*	15	331.39
		250/250	3070629	1	486.89
		315/315	3003515	1	839.83
	Complete Screw Connection	40	3003905 ^Δ	20	12.52
		50	3003935 ^Δ	20	12.52
		63	3003936 ^Δ	10	21.28
		75	3003937 ^Δ	10	21.28
		110	3003938 ^Δ	10	35.18
	Complete Closing Cap – Butt weld only	40	3003869	10	13.17
		50	3003870	10	13.38
		63	3003871 ^Δ	10	13.38
		75	3082542	10	31.27
		90	3003872 ^Δ	10	31.58
		110	3003873	10	42.54
	Extended Closing Cap – Suitable for electrofusion and butt welding	110	3094673	1	56.25
	Extended reducing closing cap – Suitable for electrofusion and butt welding	160/110	3094674	1	94.28
	Weld Cap	40	3003860	20	5.53
		50	3003861	20	4.71
		56	3003874	20	4.71
		63	3003862 ^Δ	20	4.71
		75	3003863	20	4.72
		90	3003865 ^Δ	20	5.97
		110	3003866	20	11.21
		125	3003867 ^Δ	10	13.98
		160	3003868	10	45.22
	Protection Cap for pipe & fittings	40	3018704 ^Δ	40	5.81
		50	3018705 ^Δ	40	7.57
		63	3018706 ^Δ	40	7.57
		75	3018707 ^Δ	40	8.79
		90	3018708	50	1.42
		110	3018709	40	1.58
		125	3018710 ^Δ	50	8.79

Wavin HDPE

Soil, waste and vent

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Flange Cap	110	3072765	1	203.32
	160	3043503	1	203.32
	200	3043504	1	478.55
	250	3043505	1	497.94
	315	3043506	1	730.86
 Flange Adaptor	63	4025988 ^Δ	5	64.57
	75	4025989 ^Δ	5	46.35
	110	4009748	5	51.55
	125	4009749 ^Δ	5	101.91
	160	4009750 ^Δ	5	87.77
	200	4009751 ^Δ	5	168.72
	250	4025992 ^Δ	1	290.46
	315	3018031 ^Δ	1	495.24
 Brass Nut Connection	40x¾"	3003908 ^Δ	20	15.17
	40x1"	3003910 ^Δ	20	15.17
	40x1¼"	3003912 ^Δ	20	15.17
	40x1½"	3003913 ^Δ	20	15.17
	50x¾"	3003917 ^Δ	20	35.78
	50x1¼"	3003921 ^Δ	20	35.78
	50x1½"	3003924 ^Δ	20	35.78
	50x2"	3003927 ^Δ	20	35.78
	63x2"	4009761 ^Δ	10	15.17
 Shrink-on Socket with Seal	50	3003516 ^Δ	5	53.76
	63	3018026 ^Δ	5	53.76
	75	3018027 ^Δ	5	53.76
	90	3018028 ^Δ	5	53.76
	110	3003528 ^Δ	5	64.44
	125	3018029 ^Δ	5	64.44
	160	3018030 ^Δ	5	93.83
	200	3018025 ^Δ	1	112.19
	Accessories			
 Electrofusion Welding Tool DUO 315 230v	–	4036330	1	4642.29
	 Electrofusion Welding Tool WaviDUO 315 110v	–	4064999	1
 Electrofusion Welding Tool Cable 40-160 Spare, for use with 4064999		–	4065001	1
	 Electrofusion Welding Tool Cable 200-315 Spare, for use with 4064999	–	4065000	1

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	1170.85
	Heat Reflector Butt-Welding Tool Maxi 315, 90-315mm	90-315	4011402 ^A	1	42027.21
	PE Pipe Cutter	50-125	4011390	1	871.20
	HDPE Rotary Peelers for pipe 50mm	50	4042914	1	2779.33
	for pipe 63mm	63	4024493	1	2779.33
	for pipe 75mm	75	4024569	1	3325.26
	for pipe 90mm	90	4024432	1	3325.26
	for pipe 110mm	110	4024189	1	3325.26
	for pipe 125mm	125	4024393	1	3325.26
	Replacement blade for pipe 160mm	160	4024190	1	3871.24
	Replacement blade	–	4042915	1	287.86
	Other Processing Aids PE marker pen China Marker	–	4011453	12	25.86
	PE pipe scraper	–	4020757	10	90.65
	PE cleaner 0.7 litre bottle	–	4025509	12	53.12

Note: ^A = 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	16.07
	16mm x 2.0mm x 5m	16	3061211	25	27.50
	20mm x 2.25mm x 3m	20	3072989	18	23.01
	20mm x 2.25mm x 5m	20	3061212	18	39.56
	25mm x 2.5mm x 3m	25	3072990	10	35.03
	25mm x 2.5mm x 5m	25	3061213	10	60.02
	32mm x 3.0mm x 3m	32	3070827	6	43.86
	32mm x 3.0mm x 5m	32	3041228	6	75.26
	40mm x 4.0mm x 5m	40	3041229	4	121.36
	Pipe – Coils				
	16mm x 2.0mm x 100m	16	3018297	1	433.29
	16mm x 2.0mm x 200m	16	3018302	1	866.53
	16mm x 2.0mm x 500m	16	3061202	1	2056.58
	20mm x 2.25mm x 100m	20	3018299	1	612.62
	25mm x 2.5mm x 50m	25	3018300	1	496.85
	32mm x 3.0mm x 50m	32	3018301	1	681.11
	Pipe – Coil 9mm Pre-insulated				
	32mm x 3.0mm x 25m GREY	32	3018804	1	674.23
	Pipe – Coils 9mm Pre-insulated				
	16mm x 2.0mm x 50m RED	16	3004378	1	463.34
	20mm x 2.25mm x 50m RED	20	3004379	1	617.29
	25mm x 2.5mm x 25m RED	25	3071219	1	403.53
	16mm x 2.0mm x 50m BLUE	16	3071220	1	463.34
	20mm x 2.25mm x 50m BLUE	20	3071221	1	617.29
	25mm x 2.5mm x 25m BLUE	25	3071222	1	430.77
	Pipe – Coils 13mm Pre-insulated				
	16mm x 2.0mm x 50m RED	16	3004380	1	545.84
	20mm x 2.25mm x 50m RED	20	3004381	1	680.73
	25mm x 2.5mm x 25m RED	25	3070529	1	505.69
	16mm x 2.0mm x 50m BLUE	16	3071224	1	545.84
	20mm x 2.25mm x 50m BLUE	20	3071225	1	680.73
	25mm x 2.5mm x 25m BLUE	25	3071226	1	505.69
	Pipe – Coils 13mm Pre-insulated (BlS1,d0)				
	16mm x 2.0mm x 50m RED	16	3095142	1	545.84
	20mm x 2.25mm x 50m RED	20	3095141	1	680.73
	25mm x 2.5mm x 25m RED	25	3095140	1	505.69
	16mm x 2.0mm x 50m BLUE	16	3095680	1	545.84
	20mm x 2.25mm x 50m BLUE	20	3095682	1	680.73
	25mm x 2.5mm x 25m BLUE	25	3095681	1	505.69

Wavin Tigris K5



Press-fit plumbing system

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece	
Couplers					
 Straight Coupler	16	3079754	10	5.68	
	20	3079755	10	7.40	
	25	3079756	10	11.11	
	32	3079757	5	19.34	
	40	3079758	3	30.81	
 Reducing Coupler	20 x 16mm	20	3079759	10	7.89
	25 x 16mm	25	3079760	10	10.20
	25 x 20mm	25	3079761	10	11.16
	32 x 20mm	32	3079762	5	18.89
	32 x 25mm	32	3079763	5	18.49
	40 x 32mm	40	3079764	3	29.65
	Elbows				
 Elbow 45°	25	3079773	10	15.09	
	32	3079774	5	21.92	
	40	3079775	3	42.00	
 Elbow 90°	16	3079768	10	7.08	
	20	3079769	10	8.90	
	25	3079770	10	12.64	
	32	3079771	5	19.71	
	40	3079772	3	38.57	
 Elbow 90° – single male BSP thread	16mm x 1/2"	16	3079776	10	8.96
	20mm x 1/2"	20	3079777	10	10.92
	20mm x 3/4"	20	3079778	10	15.76
	25mm x 3/4"	25	3079779	10	17.56
	25mm x 1"	25	3079780	5	19.65
	32mm x 1"	32	3079781	5	31.34
	 Elbow 90° – single female BSP thread	16mm x 1/2"	16	3079782	10
20mm x 1/2"		20	3079783	10	17.30
20mm x 3/4"		20	3079784	10	21.10
25mm x 3/4"		25	3079785	10	23.60
32mm x 1"		32	3079786	5	35.87
 Backplate Elbow – female BSP thread		16mm x 1/2"	16	3079854	10
	20mm x 1/2"	20	3079855	10	22.84
	20mm x 3/4"	20	3079856	10	23.60
 Toilet Tank Elbow	16mm x 1/2"	16	3083259	10	22.59

Description		Nom dia mm	Cat no	Pack qty	Price £ per piece
Tees					
	Equal Tee	16	3079811	10	9.63
		20	3079812	10	13.77
		25	3079813	5	19.79
		32	3079814	5	33.72
		40	3079815	2	55.20
	One End Reduced Tee				
	20x20x16mm	20	3079824	10	12.61
	Double End Reduced Tee				
	16x20x16mm	20	3079821	10	12.61
	20x25x20mm	25	3079826	5	17.23
	25x32x25mm	32	3079833	5	27.80
	Branch Reduced Tee				
	20x16x20mm	20	3079823	10	12.61
	25x16x25mm	25	3079827	5	17.46
	25x20x25mm	25	3079828	5	19.00
	32x16x32mm	32	3079834	5	26.48
	32x20x32mm	32	3079835	5	28.27
	32x25x32mm	32	3079837	5	30.61
	40x25x40mm	40	3079839	2	43.09
40x32x40mm	40	3079840	2	47.62	
	Branch and One End Reduced Tee				
	20x16x16mm	20	3079822	10	12.61
	25x16x16mm	25	3079829	5	16.29
	25x20x20mm	25	3079825	5	17.49
	32x25x25mm	32	3079836	5	27.88
	40x32x32mm	40	3079842	3	42.39
	One Sided Female Thread Tee				
	16mm x 1/2" x 16mm	16	3079816	10	23.23
	20mm x 1/2" x 20mm	20	3079817	10	25.91
	20mm x 3/4" x 20mm	20	3079818	10	26.93
	25mm x 1/2" x 25mm	25	3079819	5	24.09
	25mm x 3/4" x 25mm	25	3079820	5	33.47
Connectors					
	Connector – single male BSP thread				
	16mm x 1/2"	16	3079798	10	7.10
	16mm x 3/4"	16	3079799	10	8.26
	20mm x 1/2"	20	3079800	10	9.07
	20mm x 3/4"	20	3079801	10	10.03
	25mm x 3/4"	25	3079802	10	11.46
	25mm x 1"	25	3079803	10	14.91
	32mm x 1"	32	3079804	5	21.85
	32mm x 1 1/4"	32	3079805	5	32.82
	40mm x 1 1/4"	40	3079806	3	36.00









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" 16mm x 3/4" 20mm x 1/2" 20mm x 3/4" 25mm x 3/4" 32mm x 1" 40mm x 1 1/4"	16	3079788	10	9.65
	16	3079789	5	9.83
	20	3079790	10	10.96
	20	3079791	10	14.17
	25	3079793	10	18.73
	32	3079796	5	31.64
	40	3079797	3	46.71
	 End Cap 16 20 25	16	3079859	10
20		3079860	10	9.12
25		3079861	5	10.44







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	9.71
		20	4063972	10	12.14
		25	4063974	5	19.21
		32	4064166	5	29.12
		40	4064167	5	67.54
	Reducing Coupler				
	20 x 16mm	20	4064182	10	11.50
	25 x 20mm	25	4064185	5	16.68
	32 x 25mm	32	4064190	5	24.49
	40 x 32mm	40	4064193	5	56.76
Elbows					
	Elbow 90°	16	4064199	10	10.65
		20	4064200	10	14.35
		25	4064202	5	23.85
		32	4064204	5	35.89
		40	4064205	5	110.17
	Elbow 90° – single male BSP thread				
	16mm x 1/2"	16	4066001	10	14.20
	20mm x 1/2"	20	4066003	10	15.41
	20mm x 3/4"	20	4066004	10	20.71
	25mm x 3/4"	25	4066005	5	27.92
	Elbow 90° – single female BSP thread				
	16mm x 1/2"	16	4066009	10	14.68
	20mm x 1/2"	20	4066011	10	16.01
	20mm x 3/4"	20	4066012	10	21.65
	25mm x 3/4"	25	4066013	5	29.96
	32mm x 1"	32	4066015	5	45.73
Tees					
	Equal Tee	16	4064323	10	15.09
		20	4064324	10	21.94
		25	4064326	5	33.76
		32	4064328	5	51.61
		40	4064329	5	134.43
	Branch Reduced Tee				
	20x16x20mm	20	4064354	10	22.26
	25x16x25mm	25	4064361	5	32.08
	32x16x32mm	32	4064371	5	47.91
	One Sided Female Thread Tee				
	25mm x 3/4" x 25mm	25	4066095	5	47.65
	32mm x 1" x 32mm	32	4066097	5	75.45
	40mm x 1" x 40mm	40	4066099	5	135.73

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	9.40
16mm x 3/8"	16	4064262	10	10.41
16mm x 3/4"	16	4066042	10	11.44
20mm x 1/2"	20	4066043	10	14.43
20mm x 3/4"	20	4066044	10	18.66
20mm x 1"	20	4066045	10	32.37
25mm x 3/4"	25	4066046	5	21.42
25mm x 1"	25	4064271	5	25.42
32mm x 1"	32	4064273	5	26.17
32mm x 1 1/4"	32	4064274	5	45.59
40mm x 1 1/4"	40	4064276	5	51.61
 Connector – single female BSP thread				
16mm x 1/2"	16	4066028	10	11.44
16mm x 3/4"	16	4066029	10	22.86
20mm x 1/2"	20	4066030	10	13.60
20mm x 3/4"	20	4066031	5	19.00
25mm x 3/4"	25	4066033	5	21.90
25mm x 1"	25	4066034	5	32.96
32mm x 1"	32	4066035	5	40.56
 Tap Connector – female BSP thread				
16mm x 1/2"	16	4066072	10	11.44
16mm x 3/4"	16	4066074	10	11.44
20mm x 3/4"	20	4066076	10	12.70
25mm x 3/4"	25	4066078	5	44.04
25mm x 1"	25	4066079	5	27.17
32mm x 1 1/4"	32	4066082	5	39.51
40mm x 1 1/2"	40	4064315	3	52.60
 Tap connector elbows 90° – female BSP thread				
16mm x 1/2" DRL	16	4066067	1	25.95
20mm x 1/2" DRL	20	4066068	10	26.48
 Wall Flange				
16mm x 1/2"	16	4066133	10	18.52
 Elbow 90° – Radiator Connector				
16 x 15mm – 175mm long	16	4064235	10	21.60
16 x 15mm – 300mm long	16	4064239	10	37.14

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	40.36
 Three Port Valved Manifold 3/4"with valves x3 ports 1/2"		4026693	2	56.92
 Four Port Valved Manifold 3/4"with valves x4 ports 1/2"		4026694	2	78.89
 Manifold Adaptor 16 x 1/2"	16	4026699	10	7.94
 Two Port Manifold 3/4" x2 ports 1/2"		4026689	2	34.41
 Three Port Manifold 3/4" x3 ports 1/2"		4026690	2	45.01
 Four Port Manifold 3/4" x4 ports 1/2"		4026691	2	62.21
Manifold End Caps				
 3/4" BSP Female End Cap		HX97 GY•	5	5.56
 3/4" BSP Male End Cap		HX98 GY•	5	6.44
Manifold Bracket – Pair				
 for HX92T/15, HX93T/15 and HX94T/15		HX95A GR•	5	36.51
Accessories				
 Transition Fitting to Copper				
16 x 15mm	16	4065978	5	14.77
20 x 15mm	20	4065979	5	15.92
20 x 22mm	20	4065981	5	20.27
25 x 22mm	25	4065982	5	29.60
25 x 28mm	25	4065983	5	33.02
32 x 28mm	32	4067485	5	29.12
 Pressure Stopper				
	16	4013571	1	43.07
	20	4013572	1	43.07
	25	4013573	1	43.07

• 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 x 15mm 20 x 10mm 20 x 22mm 25 x 22mm 25 x 28mm 32 x 28mm	16 16 20 20 25 25 32	4064278 4064277 4064279 4064280 4064281 4064282 4064283	10 10 10 10 10 10 10	10.73 11.28 13.83 20.17 23.45 30.88 33.49
	Compression Adaptor 16mm x 1/2"	16	4055036	10	8.20



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	237.62
	63mm x 6.0mm x 5m	63	3028271	3	387.63
	75mm x 7.5mm x 5m	75	3053972	1	504.31
Couplers					
	Straight Coupler				
		50	3027832	2	45.58
		63	3027847	2	120.21
		75	3065639	2	152.82
	Reducing Coupler				
	50 x 32mm	50	3027833	2	46.27
	50 x 40mm	50	3027834	2	50.94
	63 x 40mm	63	3027852	2	116.29
	63 x 50mm	63	3027850	2	122.13
	75 x 50mm	75	3065641	2	140.43
	75 x 63mm	75	3065640	2	144.44
Elbows					
	Elbow 45°				
		50	3024668	2	65.94
		63	3027849	2	149.39
		75	3065642	2	162.77
	Elbow 90°				
		50	3024667	2	60.27
		63	3027848	2	135.84
		75	3065643	2	165.62
Tees					
	Equal Tee				
		50	3027829	2	86.26
		63	3027853	2	162.78
		75	3065644	2	228.93
	Branch Reduced Tee				
	50 x 25 x 50mm	50	3027830	2	62.96
	50 x 32 x 50mm	50	3027842	2	66.14
	50 x 40 x 50mm	50	3027831	2	70.96
	63 x 25 x 50mm	63	3027856	2	110.67
	63 x 32 x 63mm	63	3027855	2	122.89
	63 x 40 x 63mm	63	3027854	2	146.05
	75 x 32 x 75mm	75	3065647	2	155.97
	75 x 40 x 75mm	75	3065646	2	176.08
	75 x 50 x 75mm	75	3065645	2	182.80
Connector					
	Connector – single male BSP thread				
	50mm x 1 1/2"	50	3027837	2	52.92














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	122.02
	75mm x 2½"	75	3090788	1	154.77
Connectors					
	Connector – single female BSP thread				
	50mm x 1½"	50	3090828	3	81.82
	63mm x 2"	63	3090829	2	128.82












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	51.49
		20	4013559	1	66.22
		25	4013562	1	70.94
	External Bending Spring	16	4023071	1	40.39
		20	4023073	1	44.14
		25	4023075	1	57.99
	Pipe Bending Pliers	16	4043224	1	303.03
	Pipe Bending Tool	20	4043225	1	324.25
	Pipe Bending Pliers 16/20/25mm	–	4023077	1	656.94
	Pipe Straightener 16/20/25mm	–	4013530	1	999.60
	Pipe Cutter 16mm-75mm	–	4053508	1	139.65
	Pipe Cutter with hold function 16/20/25mm	–	4036273	1	137.18
	Replacement Blade for 4036273	–	4037386	1	26.83
	Hand Press Tool 16-20mm	–	4013538	1	349.12
	Note: contains the tool only				
	Hand Tool Insert	16	4013542	1	119.48
		20	4013543	1	119.48
	Cordless Pressing Tool 16mm-40mm	–	4048906	1	3508.89
	Cordless Pressing Tool 16mm-75mm	–	4048907	1	5614.22
	Battery for 4048906	–	4066723	1	307.02

Wavin Tigris

Press-fit plumbing system

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Battery for 4048907	–	4066725	1	596.51
 Pressing Jaws – for use with 4048906	16	4046556	1	350.90
	20	4046557	1	350.90
	25	4046558	1	385.99
	32	4046559	1	385.99
	40	4046560	1	561.43
 Pressing Jaws – for use with 4048907	16	4046691	1	403.53
	20	4046694	1	403.53
	25	4046695	1	421.07
	32	4046756	1	421.07
	40	4046758	1	596.51
	50	4046759	1	631.60
	63	4035779	1	929.87
 Pressing Jaws – for use with 4048907 and 4053510	75	4053509	1	666.69
 Pressing Adaptor for 75mm Jaw – for use with 4048907 and 4053510	75	4053510	1	649.16
 Calibration Mandrel	16	4999998	1	117.41
	20	4999999	1	118.96
	25	4023364	1	125.06
	32	4023365	1	134.20
 Calibration Mandrel	40	4031987	1	230.21
	50	4031988	1	224.68
	63	4035780	1	332.78
	75	4053507	1	353.72
 Calibration Mandrel 16/20/25mm	–	3021196	1	142.63
 Handgrip Calibration Mandrel	–	3011162	1	66.35
 Handgrip Calibration Mandrel	–	4036272	1	66.35
 Calibration Set 16mm-32mm	–	4013541	1	553.62

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	90.27
50m ♡	10	HXX50/10W	1	177.81
100m ♡	10	HXX100/10W	1	350.28
10m ♡	15	HXX10/15W	1	42.50
25m ♡	15	HXX25/15W	1	106.18
50m ♡	15	HXX50/15W	1	210.16
80m ♡	15	HXX80/15W	1	336.26
100m ♡	15	HXX100/15W	1	413.82
120m ♡	15	HXX120/15W	1	496.60
10m ♡	22	HXX10/22W	1	82.94
25m ♡	22	HXX25/22W	1	207.29
50m ♡	22	HXX50/22W	1	410.45
10m ♡	28	HXX10/28W	1	111.81
25m ♡	28	HXX25/28W	1	279.51
50m ♡	28	HXX50/28W	1	556.36
 Straight Lengths – Barrier				
3m ♡	15	HXX03/15W	10	13.32
3m ♡	22	HXX03/22W	10	26.02
3m ♡	28	HXX03/28W	10	35.69
6m ♡	15	HXX06/15W	40	27.45
6m ♡	22	HXX06/22W	20	53.88
6m ♡	28	HXX06/28W	12	73.47
 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	369.31
50m ♡	10	HXXC5010 RD	1	369.31
50m ♡	15	HXXC5015 BU	1	424.64
50m ♡	15	HXXC5015 RD	1	424.64
50m ♡	22	HXXC5022 BU	1	653.20
50m ♡	22	HXXC5022 RD	1	653.20
25m ♡	28	HXXC2528 BU	1	537.76
25m ♡	28	HXXC2528 RD	1	537.76

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	6.79
	♥ Key	15	HD1/15W	10	4.07
	♥ Key	22	HD1/22W	10	5.72
	♥ Key	28	HD1/28W	5	16.46
	♥ Keyless	10	KL1-10	10	6.79
	♥ Keyless	15	KL1-15	10	4.07
	♥ Keyless	22	KL1-22	10	5.72
	♥ Keyless	28	KL1-28	5	16.46
	Elbow 90°				
	♥ Key	10	HD5/10W	10	7.69
	♥ Key	15	HD5/15W	10	4.94
	♥ Key	22	HD5/22W	10	7.24
	♥ Key	28	HD5/28W	5	19.71
	♥ Keyless	10	KL5-10	10	7.69
	♥ Keyless	15	KL5-15	10	4.94
	♥ Keyless	22	KL5-22	10	7.24
	♥ Keyless	28	KL5-28	5	19.71
	Equal Tee				
	♥ Key	10	HD10/10W	10	9.51
	♥ Key	15	HD10/15W	10	6.93
	♥ Key	22	HD10/22W	10	9.51
	♥ Key	28	HD10/28W	5	27.19
	♥ Keyless	10	KL10-10	10	9.51
	♥ Keyless	15	KL10-15	10	6.93
	♥ Keyless	22	KL10-22	10	9.51
	♥ Keyless	28	KL10-28	5	27.19
	Demountable Stop-End				
	♥ Key	10	HD62/10W	10	6.03
	♥ Key	15	HD62/15W	10	5.40
	♥ Key	22	HD62/22W	10	6.79
	♥ Key	28	HD62/28W	5	11.30
	♥ Keyless	10	KL62-10	10	6.03
	♥ Keyless	15	KL62-15	10	5.40
	♥ Keyless	22	KL62-22	10	6.79
	♥ Keyless	28	KL62-28	5	11.30
	SmartSleeve Pipe Support				
	Key / Keyless	10	HX60/10W	20	0.96
	Key / Keyless	15	HX60/15W	50	0.97
	Key / Keyless	22	HX60/22W	50	1.27
	Key / Keyless	28	HX60/28W	20	1.88
	Spigot Elbow 90°				
	Single Socket				
	♥ Key	10	HD4/10W	5	7.69
	♥ Key	15	HD4/15W	5	5.20
	♥ Key	15x10	HD4A/15W	5	7.69
	♥ Key	22	HD4/22W	5	7.69

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					
	10	KL4-10	5	7.69	
	15	KL4-15	5	5.20	
	15x10	KL4A-15	5	7.69	
	22	KL4-22	5	7.69	
Socket Reducer					
	15 x 10mm ♡ Key	15	HD2/15W	10	7.04
	22 x 15mm ♡ Key	22	HD2/22W	10	5.44
	28 x 22mm ♡ Key	28	HD2/28W	5	13.19
	15 x 10mm ♡ Keyless	10	KL2-15	10	7.04
	22 x 15mm ♡ Keyless	22	KL2-22	10	5.44
	28 x 22mm ♡ Keyless	28	KL2-28	5	13.19
Socket/Socket Reducer					
	15 x 10mm ♡ Key	15	HD3B/15W	10	12.80
	22 x 15mm ♡ Key	22	HD3B/22W	10	11.16
	22 x 10mm ♡ Key	22	HD3C/22W	10	12.80
	15 x 10mm ♡ Keyless	10	KL3B-15	10	12.80
	22 x 15mm ♡ Keyless	22	KL3B-22	10	11.16
	22 x 10mm ♡ Keyless	22	KL3C-22	10	12.80
Obtuse Bend 135° Single Socket					
	10	HD8/10W	5	8.31	
	15	HD8/15W	5	5.77	
	22	HD8/22W	5	8.31	
	10	KL8-10	5	8.31	
	15	KL8-15	5	5.77	
	22	KL8-22	5	8.31	
End Reduced Tee					
	22 x 15 x 22mm ♡ Key	22	HD12/22W	5	10.06
	28 x 22 x 28mm ♡ Key	28	HD12/28W	5	27.19
	22 x 15 x 22mm ♡ Keyless	22	KL12-22	5	10.06
	28 x 22 x 28mm ♡ Keyless	28	KL12-28	5	27.19
Double End Reduced Tee					
	10 x 10 x 15mm ♡ Key	15	HD18/15W	5	10.06
	10 x 10 x 22mm ♡ Key	22	HD18A/22W	5	10.64
	15 x 15 x 22mm ♡ Key	22	HD18/22W	5	10.06
	22 x 22 x 28mm ♡ Key	28	HD18/28W	5	27.19
	10 x 10 x 15mm ♡ Keyless	15	KL18-15	5	10.06
	15 x 15 x 22mm ♡ Keyless	22	KL18-22	5	10.06
	22 x 22 x 28mm ♡ Keyless	28	KL18-28	5	27.19






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 22 x 22 x 10mm ♡ Key 22 x 22 x 15mm ♡ Key 28 x 28 x 15mm ♡ Key 28 x 28 x 22mm ♡ Key	15	HD13/15W	5	10.06
	22	HD13A/22W	5	10.06
	22	HD13/22W	5	10.06
	28	HD13A/28W	5	27.19
	28	HD13/28W	5	27.19
 15 x 15 x 10mm ♡ Keyless 22 x 22 x 10mm ♡ Keyless 22 x 22 x 15mm ♡ Keyless 28 x 28 x 15mm ♡ Keyless 28 x 28 x 22mm ♡ Keyless	15	KL13-15	5	10.06
	22	KL13A-22	5	10.06
	22	KL13-22	5	10.06
	28	KL13A-28	5	27.19
	28	KL13-28	5	27.19
 Branch Reduced Tee – Spigot 15 x 15 x 10mm ♡ Key 22 x 22 x 15mm ♡ Key	15	HD15/15W	5	10.06
	22	HD15/22W	5	10.06
 15 x 15 x 10mm ♡ Keyless 22 x 22 x 15mm ♡ Keyless	15	KL15-15	5	10.06
	22	KL15-22	5	10.06
 Branch and One End Reduced Tee 15 x 10 x 10mm ♡ Key 22 x 10 x 10mm ♡ Key 22 x 15 x 15mm ♡ Key 28 x 22 x 22mm ♡ Key	15	HD14/15W	5	10.06
	22	HD14A/22W	5	10.06
	22	HD14/22W	5	10.06
	28	HD14/28W	5	27.19
	 15 x 10 x 10mm ♡ Keyless 22 x 10 x 10mm ♡ Keyless 22 x 15 x 15mm ♡ Keyless 28 x 22 x 22mm ♡ Keyless	15	KL14-15	5
22		KL14A-22	5	10.06
22		KL14-22	5	10.06
28		KL14-28	5	27.19
 Blanking Peg For demountable Hep2O fittings ♡ Key / Keyless ♡ Key / Keyless ♡ Key / Keyless ♡ Key / Keyless	10	HX44/10W	10	2.13
	15	HX44/15W	10	2.48
	22	HX44/22W	10	2.48
	28	HX44/28W	10	2.97
 Tank Connector with BSP tail & backnut (For cold water use only) BSP 1/2" Key BSP 3/4" Key BSP 1" (brass body) Key	15	HX20/15W	5	5.88
	22	HX20/22W	5	7.39
	28	HX20/28W	5	33.08
	 BSP 1/2" Keyless BSP 3/4" Keyless	15	KL20-15	5
22		KL20-22	5	7.39
 BSP 1" (brass body) Keyless	28	KLB20-28	5	33.08

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	
 <p>Straight Tap Connector with brass nut and alternative rubber washer</p>	BSP 1/2" ♡ Key	15	HD25A/15W	10	7.07
	BSP 3/4" ♡ Key	15	HD25B/15W	5	8.36
	BSP 3/4" ♡ Key	22	HD25B/22W	5	9.05
	BSP 1/2" ♡ Keyless	15	KL25A-15	10	7.07
	BSP 3/4" ♡ Keyless	15	KL25B-15	5	8.36
	BSP 3/4" ♡ Keyless	22	KL25B-22	5	9.05
 <p>Bent Tap Connector with brass nut and alternative rubber washer</p>	BSP 1/2" ♡ Key	15	HD27/15W	5	7.81
	BSP 1/2" ♡ Keyless	15	KL27-15	5	7.81
					
 <p>Hand-Titan™ Tap Connector with rubber washer</p>	BSP 1/2" ♡ Key	10	HD26A/10W	5	7.18
	BSP 1/2" ♡ Key	15	HD26A/15W	5	5.97
	BSP 3/4" ♡ Key	15	HD26B/15W	5	7.18
	BSP 3/4" ♡ Key	22	HD26B/22W	5	7.76
	BSP 1/2" ♡ Keyless	10	KL26A-10	5	7.18
	BSP 1/2" ♡ Keyless	15	KL26A-15	5	5.97
	BSP 3/4" ♡ Keyless	15	KL26B-15	5	7.18
	BSP 3/4" ♡ Keyless	22	KL26B-22	5	7.76

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 12.55
	300mm BSP 1/2" Key	15	HD125A/15W	2 13.24
	300mm BSP 3/4" Key	15	HD125B/15W	2 15.68
	300mm BSP 3/4" Key	22	HD125B/22W	2 15.68
	500mm BSP 1/2" Key	15	HD225A/15W	2 18.16
	500mm BSP 3/4" Key	15	HD225B/15W	2 20.52
	500mm BSP 3/4" Key	22	HD225B/22W	2 21.81
	150mm BSP 1/2" Keyless	15	KL425A-15	2 12.55
	300mm BSP 1/2" Keyless	15	KL125A-15	2 13.24
	300mm BSP 3/4" Keyless	15	KL125B-15	2 15.68
	300mm BSP 3/4" Keyless	22	KL125B-22	2 15.68
	500mm BSP 1/2" Keyless	15	KL225A-15	2 18.16
	500mm BSP 3/4" Keyless	15	KL225B-15	2 20.52
	500mm BSP 3/4" Keyless	22	KL225B-22	2 21.81
Hep2O x Hep2O				
	300mm 15mm x 15mm Key	15	HD125H/15W	2 15.57
	300mm 22mm x 22mm Key	22	HD125H/22W	2 19.03
	500mm 15mm x 15mm Key	15	HD225H/15W	2 22.80
	500mm 22mm x 22mm Key	22	HD225H/22W	2 26.33
	300mm 15mm x 15mm Keyless	15	KL125H-15	2 15.57
	300mm 22mm x 22mm Keyless	22	KL125H-22	2 19.03
	500mm 15mm x 15mm Keyless	15	KL225H-15	2 22.80
	500mm 22mm x 22mm Keyless	22	KL225H-22	2 26.33
Hep2O x Elbow BSP Nut with brass nut and rubber washer				
	300mm Elbow BSP 1/2" Key	15	HD125D/15W	2 16.80
	300mm Elbow BSP 1/2" Keyless	15	KL125D-15	2 16.80

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
 <p>Hep₂O Brass Service Valve x BSP Nut with brass nut and rubber washer 300mm BSP 1/2" Key 500mm BSP 1/2" Key</p>	15	HD125E/15W	2	36.00
	15	HD225E/15W	2	39.40
 <p>300mm BSP 1/2" Keyless 500mm BSP 1/2" Keyless</p>	15	KL125E-15	2	36.00
	15	KL225E-15	2	39.40
 <p>Hep₂O Brass Service Valve (Handle) x BSP Nut with brass nut and rubber washer 300mm BSP 1/2" Key</p>	15	HD125EH/15W	2	36.00
	15	KL125EH-15	2	36.00
 <p>300mm BSP 1/2" Keyless</p>	15	KL125EH-15	2	36.00
 <p>Hep₂O x Monobloc Mixers 300mm 15mm x M10 Key 300mm 15mm x M12 Key</p>	15	HD125F/15W •	Pair	23.70
	15	HD125G/15W •	Pair	23.70
 <p>300mm 15mm x M10 Keyless 300mm 15mm x M12 Keyless</p>	15	KL125F-15 •	Pair	23.70
	15	KL125G-15 •	Pair	23.70

• 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	11.61
	BSP 1/2" ♡ Key	15	HX29/15W	10	11.30
	BSP 3/4" ♡ Key	22	HX29/22W	10	16.24
	BSP 1" ♡ Key	28	HX29/28W	5	30.86
	BSP 1/2" ♡ Keyless	10	KLB29-10	10	11.61
	BSP 1/2" ♡ Keyless	15	KLB29-15	10	11.30
	BSP 3/4" ♡ Keyless	22	KLB29-22	10	16.24
	BSP 1" ♡ Keyless	28	KLB29-28	5	30.86
	Adaptor Female BSP/Hep ₂ O socket DZR Brass				
	BSP 1/2" ♡ Key	10	HX28/10W	10	11.61
	BSP 1/2" ♡ Key	15	HX28/15W	10	11.30
	BSP 3/4" ♡ Key	15	HX24/15W	10	16.24
	BSP 3/4" ♡ Key	22	HX28/22W	10	16.24
	BSP 1" ♡ Key	28	HX28/28W	5	31.92
	BSP 1/2" ♡ Keyless	10	KLB28-10	10	11.61
	BSP 1/2" ♡ Keyless	15	KLB28-15	10	11.30
	BSP 3/4" ♡ Keyless	15	KLB24-15	10	16.24
	BSP 3/4" ♡ Keyless	22	KLB28-22	10	16.24
	BSP 1" ♡ Keyless	28	KLB28-28	5	31.92
	Adaptor Male BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX31/15W	10	6.29
	BSP 3/4" ♡	22	HX31/22W	10	10.38
	BSP 1" ♡	28	HX31/28W	5	15.23
	Adaptor Female BSP/Hep ₂ O spigot DZR Brass				
	BSP 1/2" ♡	15	HX30/15W	10	6.17
	BSP 3/4" ♡	22	HX30/22W	10	10.38
	BSP 1" ♡	28	HX30/28W	5	15.23
	Draincock Brass 15mm spigot DZR Brass ♡	15	HX32/15 GY	10	11.30
	Adaptor Converts 1/2" tap connector to 3/4" DZR Brass BSP 1/2"x 3/4" ♡		HX39 GR	10	5.86
	Wall Plate Elbow Hep ₂ O				
	BSP 1/2" ♡ Key	15	HX6/15W	5	17.44
	BSP 3/4" ♡ Key	22	HX6/22W	5	18.96
	BSP 1/2" ♡ Keyless	15	KL6-15	5	17.44
	BSP 3/4" ♡ Keyless	22	KL6-22	5	18.96

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 22x22mm Key	15	HX22/15W	5	22.33
	22	HX22/22W	5	29.15
 15x15mm Keyless 22x22mm Keyless	15	KLB22-15	5	22.33
	22	KLB22-22	5	29.15
 Gate Valve DZR Brass (suitable for central heating use) 15mm Key 22mm Key	15	HX35/15W	5	17.68
	22	HX35/22W	5	25.19
 15mm Keyless 22mm Keyless	15	KLB35-15	5	17.68
	22	KLB35-22	5	25.19
 Stopcock – Cold Water fitted with Hep ₂ O ends 15mm Key 22mm Key	15	HX36/15W	5	31.62
	22	HX36/22W	5	34.00
 Shut-off Valve With hot/cold indicator insert NB: *SEE USAGE NOTE 15mm Key	15	HX37/15W	5	15.80
 Appliance Valve With hot/cold indicator insert NB: *SEE USAGE NOTE 15mm Key	15	HX38/15W	5	15.02
 Straight Service Valve With hot/cold indicator insert NB: *SEE USAGE NOTE 15mm Key	15	HX18/15W	5	17.39
 Angled Service Valve With hot/cold indicator insert NB: *SEE USAGE NOTE 15mm Key	15	HX19/15W	5	18.19

*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	13.56
	22x15mm ports Closed Spigot ♡ Keyless	22	KL88-22	5	13.56
	Two Port Manifold 22x15mm ports All socket ♡ Key	22	HX88B/22W	5	14.02
	22x15mm ports All socket ♡ Keyless	22	KL88B-22	5	14.02
	Three Port Manifold 22x15mm ports Closed spigot ♡ Key	22	HX89/22W	5	18.21
	22x15mm ports Closed spigot ♡ Keyless	22	KL89-22	5	18.21
	Three Port Manifold 22x15mm ports All socket ♡ Key	22	HX89B/22W	5	18.88
	22x15mm ports All socket ♡ Keyless	22	KL89B-22	5	18.88
	Two Port Manifold 22x10mm ports All socket ♡ Key	22	HX92B/22W	5	14.83
	22x10mm ports All socket ♡ Keyless	22	KL92B-22	5	14.83
	Four Port Manifold 22x10mm ports All socket ♡ Key	22	HX94B/22W	5	18.88
	22x10mm ports All socket ♡ Keyless	22	KL94B-22	5	18.88









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	13.56
	22x10mm ports Socket and closed spigot ♡ Keyless	22	KL92-22	5	13.56
	Four Port Manifold 22x10mm ports Socket and closed spigot ♡ Key	22	HX94/22W	5	18.21
	22x10mm ports Socket and closed spigot ♡ Keyless	22	KL94-22	5	18.21
	Four Port Manifold 22x10mm ports Socket and closed spigot, on one side ♡ Key	22	HX96/22W	5	20.82
	22x10mm ports Socket and closed spigot, on one side ♡ Keyless	22	KL96-22	5	20.82
	Four Port Manifold 22x10mm ports All socket, on one side ♡ Key	22	HX96B/22W	5	20.82
	22x10mm ports All socket, on one side ♡ Keyless	22	KL96B-22	5	20.82
	One Port Valved Manifold Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡ Key	22	HX91T/22W	1	37.93
	Plated Brass 3/4" BSP Male/female 22mm Hep ₂ O port ♡ Keyless	22	KLB91T-22	1	37.93
	Two Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Key	15	HX92T/15W	1	63.71
	Plated Brass 3/4" BSP Male/female 15mm Hep ₂ O ports ♡ Keyless	15	KLB92T-15	1	63.71

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




Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Three Port Valved Manifold Plated Brass 3/4" BSP Male/female 15mm Hep2O ports ♡ Key</p>	15	HX93T/15W	1	93.43
 <p>Plated Brass 3/4" BSP Male/female 15mm Hep2O ports ♡ Keyless</p>	15	KLB93T-15	1	93.43
 <p>Four Port Valved Manifold Plated Brass 3/4" BSP male/female. 15mm Hep2O ports ♡ Key</p>	15	HX94T/15W	1	127.56
 <p>Plated Brass 3/4" BSP male/female. 15mm Hep2O ports ♡ Keyless</p>	15	KLB94T-15	1	127.56
 <p>Manifold End Caps 3/4" BSP Female End Cap 3/4" BSP Male End Cap</p>		HX97 GY HX98 GY	5 5	5.56 6.44
 <p>Manifold Bracket – Pair for HX92T/15, HX93T/15 and HX94T/15</p>		HX95A GR	1	36.51
 <p>Radiator Outlet Back Box Plastic (for stud wall)</p>		HX109 GY	5	5.88
 <p>Radiator Outlet Back Box Metal (for solid wall)</p>		HX110 GY	5	4.93
 <p>Radiator Outlet Cover with Flap For use with HX109 and HX110</p>		HX113 WH	5	12.90
 <p>Back Box Grommet For use with HX110</p>		HX112 GY	50	0.32

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

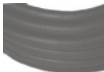




Wavin Hep₂O Push-fit Plumbing

Tools, fixings and accessories

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 HepKey Plus Demounting Tool	10	HX79/10W	10	0.62
	15	HX79/15W	10	0.71
	22	HX79/22W	10	0.71
	28	HX79/28W	10	0.80
 HepKey Demounting Tool	10	HX78/10W	10	0.55
	15	HX78/15W	10	0.62
	22	HX78/22W	10	0.62
	28	HX78/28W	10	0.69
 HepTool Demounting Tool 10/28mm 15/22mm	10	HX77/10W	10	3.72
	15	HX77/15W	10	3.05
 Cold Forming Bend Fixture Metal with passivate finish	15	HX75/15 GR	5	3.79
	22	HX75/22 GR	5	5.33
 Pipe Cutter – Scissor Type Standard		HD74 GR	1	31.40
 Pro Cutter		HD75 GR	1	77.41
 Pipe Cutter – Ratchet Type up to 28mm pipe		HD78 GR	1	79.18
 Hep₂O Joint Test Kit Hep ₂ O Joint Test Kit		HX81 GR	1	907.73
 Pipe Clips – Screw	15	HX85/15W	50	0.58
	22	HX85/22W	50	0.58
	28	HX85/28W	50	0.97
 Pipe Clip – Spacers	15	HX86/15W	20	0.44
	22	HX86/22W	20	0.58
 Pipe Clip Cable Type	10	HX65/10W	50	0.37
	15	HX65/15W	50	0.58
	22	HX65/22W	50	0.58
	28	HX65/28W	50	0.71

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Hep₂O Silicone Lubricant Spray 400ml aerosol can Hep ₂ O fittings		HX200	1	21.59
 Flat Tap Connector Washers – Rubber	15 22	HX58/15 GY HX58/22 GY	20 20	p/pack 8.30 p/pack 8.30
 Conical Tap Connector Washers – Rubber	15 22	HX57/15 GR HX57/22 GR	20 20	p/pack 8.30 p/pack 8.30

Conduit system

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Conduit Pipe 25.0m 50.0m 25.0m 50.0m	15 15 22 22	HXC25/15 BL HXC50/15 BL HXC25/22 BL HXC50/22 BL	1 1 1 1	66.00 132.10 82.59 164.30
 Conduit Junction Box		HX100 BL	1	10.95
 Conduit Junction Box Lid		HX104 BL	1	3.67
 Conduit Terminal	15	HX101/15W	2	15.24
 Terminal Back Plate		HX103 BL	1	3.05

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.


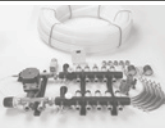

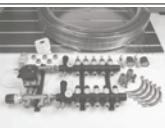
Wavin Ventiza joins premium quality heat exchangers with extremely low power consumption, providing a range of solutions that matches performance to property size for maximum efficiency.

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	342.45
	15m ²	UFHC1-15	1	362.26
	20m ²	UFHC1-20	1	449.77
	30m ²	UFHC1-30	1	469.58
	Pack type 2 – UFHC2			
	Single zone, screeded high temp with dial stat			
	15m ²	UFHC2-15	1	748.14
	20m ²	UFHC2-20	1	767.96
	30m ²	UFHC2-30	1	855.48
	40m ²	UFHC2-40	1	875.29
	Pack type 6 – UFHC6			
	Multi zone, screeded, low temp with wireless controls			
	40m ² – 2 zone	UFHC6-40	1	1222.64
	60m ² – 3 zone	UFHC6-60	1	1665.52
	80m ² – 4 zone	UFHC6-80	1	2086.89
	Pack type 8 – UFHC8			
	Retrofit 18mm low build board, 1 zone, high/low temp with dial stat			
	12m ²	UFHC8-12	1	1171.88
	15m ²	UFHC8-15	1	1323.86
	20m ²	UFHC8-20	1	1521.82
	30m ²	UFHC8-30	1	2069.77

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	40.01
50m	10	10CS050	1	67.07
100m	10	10CS100	1	126.65
50m	12	12CS050	1	93.47
80m	12	12CS080	1	147.32
100m	12	12CS100	1	184.15
50m	16	16CS050	1	109.69
80m	16	16CS080	1	180.36
100m	16	16CS100	1	224.10
120m	16	16CS120	1	260.76
150m	16	16CS150	1	323.37
200m	16	16CS200	1	448.20
500m	16	16CS500	1	1065.75
100m	20	20CS100	1	273.85
120m	20	20CS120	1	350.24
140m	20	20CS140	1	408.61
160m	20	20CS160	1	466.94
180m	20	20CS180	1	525.31
200m	20	20CS200	1	583.71

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	45.53
200m	12	12CS920	1	87.83
600m	12	12CS960	1	284.70
120m	16	16CS913	1	84.78
240m	16	16CS925	1	180.17
480m	16	16CS914	1	638.93
600m	16	16CS916	1	800.17
600m – Red	16	16CS920	1	260.06
600m	20	20CS600	1	703.53

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	0.08
	Staples 40mm for 16mm and 20mm Pipe	16/20	30CS307	600	84.09
	Staple Gun for 60mm staples		30CS305	1	400.16
	Clip Rail Universal Clip Rail for 16mm and 20mm pipe	16/20	30CS302	1	3.81
	System Plate 25mm System Plate for 16mm pipe	16	16CS303	18	14.63
	18mm System Plate for 12mm pipe	12	12CS303	16	11.48
	System Plate Tack Fastener		30CS306	25	0.48
	Edge Expansion Foam Edge Expansion Foam (25m x 150mm)		30CS304	1	32.89
	Bend Former Cold Formed Metal Bend for 12mm pipe	12	12CS300	5	1.68
	for 16mm pipe	16	16CS300	5	1.68
	for 20mm pipe	20	20CS300	5	3.33
	for 16mm pipe (plastic)	16	4028869	1	1.04
	Border Insulation UFH Border Insulation (50m x 150mm)		30CS308	1	53.69

Wavin Indoor Climate Solutions

UFH – Manifolds

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Composite Manifold				
Pre-Built Modular Manifolds				
		30CS502	1	191.20
		30CS503	1	217.45
		30CS504	1	254.14
		30CS505	1	289.23
		30CS506	1	319.13
		30CS507	1	354.75
		30CS508	1	390.99
		30CS509	1	425.25
		30CS510	1	461.41
		30CS511	1	497.59
		30CS512	1	524.40
	22	30CS513	2	45.20
	22	30CS554	2	49.85
		30CS515	1	332.70
		30CS516	1	29.24
		30CS521	1	22.50
	12	12CS501	2	6.40
	16	16CS501	2	7.28
	16	16CS506	2	6.90
	20	20CS501	2	8.15
		16CS505	50	4.63


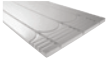
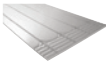
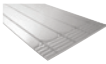
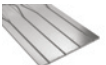


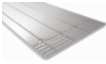

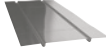

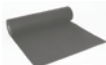
UFH – Manifolds



Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
Stainless Steel Manifold				
 Stainless Manifold*				
2 port	25	30CS532	1	146.38
3 port	25	30CS533	1	173.75
4 port	25	30CS534	1	203.13
5 port	25	30CS535	1	238.32
6 port	25	30CS536	1	261.86
7 port	25	30CS537	1	289.85
8 port	25	30CS538	1	338.06
9 port	25	30CS539	1	372.27
10 port	25	30CS540	1	405.90
11 port	25	30CS541	1	447.43
12 port	25	30CS542	1	471.66
Stainless Steel Manifold Ancillaries				
 Stainless Steel Isolating Valves 1" Pair	25	30CS530	1	46.66
 Thermometer for Ball Valves		30CS543	1	5.44
 Coupling 1" Female – Female Stainless Pair	25	30CS545	1	33.36
 Actuator Adaptor Pair		30CS547	1	1.26

*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	102.58
 Low-Build 25mm 1.25 x 0.6m 150mm centres for 16mm pipe, foil-faced	16	16CS309	1	32.49
 Low-Build 18mm 1.2 x 0.6m 150mm centres for 12mm pipe, foil-faced for 12mm pipe, glass-fibre mesh	12	12CS310	1	41.33
	12	12CS311	1	41.33
 Low-Build 15mm 1.2 x 0.6m 150mm centres for 10mm pipe, plain for 10mm pipe, glass-fibre mesh	10	10CS310	1	30.42
	10	10CS311	1	31.58
 Highway Panel Low Build 18mm 1.2 x 0.6m 40mm centres for 12mm pipe, foil-faced	12	25CS350	1	45.57
 Cover panel 6mm cementitious 2.4 x 1.2m for 12mm pipe, foil-faced		25CS349	1	29.45
 Low-Build Panel Adhesive 12L = <math><46\text{m}^2</math>		12CS319	1	328.15
UFH – Foiled Panels				
 FF Panel Foiled 30mm 1250 x 600mm	16	16CS312	1	36.21
UFH – Plain XPS Panels				
 Plain XPS Panel 25mm 1250 x 600mm		25CS309	1	12.55
UFH – Diffuser Plates				
 Double Diffuser Plate for 16mm pipe for 20mm pipe	16	16CS307	10	16.17
	20	20CS307	10	16.17
 Triple Diffuser Plate for 16mm pipe	16	16CS308	10	20.47
Acoustic Roll				
 Rubber Acoustic Roll 3mm 15m x 1m		25CS321	1	241.65

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Cementitious Panel Cementitious Panel 18mm 1200 x 600mm 20mm 1200 x 600mm</p>		25CS331 25CS332	1 1	59.93 70.19
 <p>Floor Panel Adhesive 1L</p>		25CS334	1	57.72

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	117.30
	Wireless		35CS403	1	120.96
	Wireless with Infra-Red Floor Sensor		35CS402	1	153.71
	Sentio Sensors Wired		35CS401	1	79.80
	Wireless		35CS404	1	92.43
	Sentio Control Centre 8 Zone Control Centre		35CS405	1	277.23
	Sentio Extension Unit 8 Way Extension Unit for use with 35CS405		35CS406	1	105.02
	Sentio Touch Screen LCD Touch Screen		35CS407	1	170.60
	Sentio Thermostat Frame		35CS408	1	8.64
	Sentio Smart Radiator Thermostat including M28 and M30 adaptors		35CS411	1	118.62
	Sentio Ancillaries Sentio VFR Extension Unit		35CS409	1	120.96
	Sentio Strap On Pipe Sensor		35CS410	1	20.77
	Sentio Actuator Adaptor		35CS412	1	4.14
	Sentio Wired Outdoor Sensor		35CS413	1	73.36
	Sentio USB Converter Cable		35CS414	1	99.48

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 Whisper Controls KF600 8-Way Wiring Centre 230V		35CS500	1	107.55
 Tamperproof		35CS502	1	45.01
 ST-300 Programmable Thermostat 230V		35CS503	1	52.94
 MU-600 Wifi Thermostat 230V		35CS504	1	74.13
 MU-050 Touchscreen Wifi Stat		35CS511	1	75.89
 TP-200 floor sensor for programmable stats		35CS505	1	8.83
 Remote sensor dial stat		35CS506	1	8.83
 Flush Sensor		35CS507	1	17.65
 TC-140 1 Channel Timeswitch		35CS508	1	49.41
 TC-140 2 Channel Timeswitch		35CS509	1	52.94
 TC-140 3 Channel Timeswitch		35CS510	1	61.77










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	27.01
	230V Actuator for use with 230V controls	35CS498	1	27.01
Heatmiser Controls				
	Heatmiser Single Zone Control Centre	35CS480	1	88.51
	Heatmiser 8 Zone Wireless Control Centre for use with 35CS482/3	35CS481	1	281.47
	Heatmiser NeoAir V2 Wireless Thermostat (white)	35CS482	1	157.81
	Heatmiser NeoAir V2 Wireless Thermostat (black)	35CS483	1	157.81
	Heatmiser Mains 8 Zone Control Centre for use with 35CS482/3	35CS484	1	154.84
	Heatmiser DS1-L-V2 Dial Thermostat (white)	35CS485	1	48.59
	Heatmiser neoStat 230v (white)	35CS486	1	157.79
	Heatmiser neoStat 230v (black)	35CS487	1	132.79
	Heatmiser Mains Controls - neoHub	35CS488	1	326.23
	Heatmiser Mains Sensor Probe Cover	35CS489	1	13.96
	Sensor Probe Remote/Floor Sensor Probe	35CS490	1	13.96





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	8.15
	for 16mm pipe	16	16CS501	2	7.28
	for 12mm pipe	12	12CS501	2	6.40
	for 10mm pipe	10	10CS501	2	10.75
	UFH pipe connector 3/4" x 3/4"		16CS505	50	4.63
	Pressure gauge 0-10 bar 3/8" dia 50mm		30CS523	1	10.56
Composite Manifold					
	Pre-Built Modular Manifolds				
	2 Port		30CS502	1	191.20
	3 Port		30CS503	1	217.45
	4 Port		30CS504	1	254.14
	5 Port		30CS505	1	289.23
	6 Port		30CS506	1	319.13
	7 Port		30CS507	1	354.75
	8 Port		30CS508	1	390.99
	9 Port		30CS509	1	425.25
	10 Port		30CS510	1	461.41
	11 Port		30CS511	1	497.59
	12 Port		30CS512	1	524.40
Stainless Steel Manifold					
	Stainless Manifold*				
	2 port	25	30CS532	1	146.38
	3 port	25	30CS533	1	173.75
	4 port	25	30CS534	1	203.13
	5 port	25	30CS535	1	238.32
	6 port	25	30CS536	1	261.86
	7 port	25	30CS537	1	289.85
	8 port	25	30CS538	1	338.06
	9 port	25	30CS539	1	372.27
	10 port	25	30CS540	1	405.90
	11 port	25	30CS541	1	447.43
	12 port	25	30CS542	1	471.66
Stainless Steel Manifold Ancillaries					
	Stainless Steel Isolating Valves 1" Pair	25	30CS530	1	46.66
	Thermometer for Ball Valves		30CS543	1	5.44
	Thermometer with Spring		30CS544	1	5.20
	Coupling 1" Female – Female Stainless Pair	25	30CS545	1	33.36

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	5.57
	Actuator Adaptor Pair		30CS547	1	1.26
Manifold Cabinets					
	Surface mounted 2-4 port standard manifolds 5-8 port standard manifolds 9-12 port standard manifolds		30CS548	1	96.31
	In-wall mounted 2-4 port standard manifolds 5-8 port standard manifolds 9-12 port standard manifolds		30CS551	1	106.64
			30CS549	1	104.41
			30CS550	1	115.58
			30CS552	1	113.68
			30CS553	1	121.61




UFH – 270728 District Heating

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Calefa Calefa V with Danfoss Heat Meter		40CS600	1	3267.15
	Calefa Flushing Bypass		40CS601	1	189.73
	Calefa Frame Top Entry Kit 4 up, 2 bottom, 6 pipe		40CS602	1	591.56
	Calefa II V 26/26 V HIU Heat Interface Unit		40CS605	1	2099.46
	Calefa II V 40/26 V HIU Heat Interface Unit		40CS606	1	2133.15
	Calefa II V 60/40 V HIU Heat Interface Unit		40CS607	1	2230.70
	Calefa II V ITC 26/26 V HIU Heat Interface Unit		40CS608	1	2140.75
	Calefa II V ITC 40/26 V HIU Heat Interface Unit		40CS609	1	2174.44

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	2272.00
	Optima Compact DN15 N/N 5.0mm 1500 l/h		40CS650	1	84.29
	Fast Acting Actuator incl. Delpi Socket		40CS668	1	146.44
	Optima Compact DN15 N/N 4mm High		40CS652	1	84.29
	Non Return Valve OV20/DN20		40CS655	1	2.23
	Safety Valve Type K(M)15 1/2" PN2.5		40CS658	1	7.85
	Temp. Sensor Clamp NTC 10K B3977 3%60		40CS659	1	4.17
	Temp. Sensor NTC B3977 ±0.2°70° 1/8"		40CS660	1	10.12
	Temp. Sensor NTC 10K B3977 3%60 1/8"		40CS661	1	4.40
	Safety Valve Type KB20 3/4" PN10		40CS662	1	14.04
	Wavin Heat Exchanger WH30-40m		40CS663	1	230.35

	Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
	Ball Valve 3/4" F/F		40CS664	1	13.21
	Capillary Sensor 20-70°C f/ext. Instal.		40CS665	1	32.67
	Expansion Vessel 8L Calefa		40CS666	1	45.24

Wavin Indoor Climate Solutions

UFH – Manifold Cabinets

Description	Nom dia mm	Cat no	Pack qty	Price £ per piece
 <p>Surface mounted 2-4 port standard manifolds 5-8 port standard manifolds 9-12 port standard manifolds</p>		30CS548 30CS549 30CS550	1 1 1	96.31 104.41 115.58
 <p>In-wall mounted 2-4 port standard manifolds 5-8 port standard manifolds 9-12 port standard manifolds</p>		30CS551 30CS552 30CS553	1 1 1	106.64 113.68 121.61

Numerical index

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
OT003B	31.48	5	OT033G	17.99	6	OT086W	79.90	6
OT003G	31.48	5	OT033N	17.99	6	OT088AG	149.13	6
OT003N	31.48	5	OT033W	17.99	6	OT088B	149.13	6
OT003W	31.48	5	OT034AG	12.53	6	OT088G	149.13	6
OT004B	41.17	5	OT034B	12.53	6	OT088N	149.13	6
OT004G	41.17	5	OT034G	12.53	6	OT088W	149.13	6
OT004N	41.17	5	OT034N	12.53	6	OT092B	37.79	7
OT004W	41.17	5	OT034W	12.53	6	OT116B	4.06	8
OT005B	16.46	4	OT035AG	62.48	8	OT116G	4.06	8
OT005G	16.46	4	OT035B	62.48	8	OT116N	4.06	8
OT005N	16.46	4	OT035G	62.48	8	OT116W	4.06	8
OT005W	16.46	4	OT035N	62.48	8	OT143B	41.77	7
OT007B	40.94	4	OT035W	62.48	8	OT147G	47.67	20
OT007G	40.94	4	OT037AG	20.79	8	OT147G	47.67	18
OT007N	40.94	4	OT037B	20.79	8	OT147G	47.67	16
OT007W	40.94	4	OT037G	20.79	8	OT147G	47.67	14
OT008B	36.90	5	OT037N	20.79	8	OT147G	47.67	10
OT009B	21.99	4	OT037W	20.79	8	OT147G	47.67	6
OT009G	21.99	4	OT038AG	14.70	7	OT148G	44.03	6
OT009N	21.99	4	OT038B	14.70	7	OT148G	44.03	10
OT009W	21.99	4	OT038G	14.70	7	OT148G	44.03	14
OT010B	10.54	4	OT038N	14.70	7	OT148G	44.03	16
OT010G	10.54	4	OT038W	14.70	7	OT148G	44.03	18
OT010N	10.54	4	OT044B	8.91	19	OT148G	44.03	20
OT010W	10.54	4	OT044B	8.91	17	OT149B	40.00	11
OT011B	13.58	5	OT044B	8.91	15	OT149B	40.00	7
OT011G	13.58	5	OT044B	8.91	13	OT161AG	37.03	8
OT011N	13.58	5	OT044B	8.91	9	OT161B	37.03	8
OT011W	13.58	5	OT044B	8.91	4	OT161G	37.03	8
OT014B	63.21	5	OT045B	20.59	4	OT161N	37.03	8
OT015B	63.21	5	OT045B	20.59	9	OT161W	37.03	8
OT016B	43.39	5	OT045B	20.59	15	OT245B	40.63	6
OT019B	7.26	4	OT045B	20.59	17	OT246B	40.63	6
OT019G	7.26	4	OT060B	5.57	8	OT274AG	112.76	8
OT019N	7.26	4	OT061B	5.57	8	OT274B	112.76	8
OT019W	7.26	4	OT064G	5.57	8	OT274G	112.76	8
OT024AG	15.32	7	OT072B	50.94	4	OT274N	112.76	8
OT024B	15.32	7	OT072G	50.94	4	OT274W	112.76	8
OT024G	15.32	7	OT072N	50.94	4	OT332AG	83.88	8
OT024N	15.32	7	OT072W	50.94	4	OT332B	83.88	8
OT024W	15.32	7	OT074B	101.32	4	OT332G	83.88	8
OT025AG	19.21	7	OT074G	101.32	4	OT332N	83.88	8
OT025B	19.21	7	OT074N	101.32	4	OT332W	83.88	8
OT025G	19.21	7	OT074W	101.32	4	OT624B	33.26	4
OT025N	19.21	7	OT082B	57.13	6	OT624G	33.26	4
OT025W	19.21	7	OT082G	57.13	6	OT624N	33.26	4
OT026AG	23.87	7	OT082N	57.13	6	OT624W	33.26	4
OT026B	23.87	7	OT084AG	114.19	6	OT625B	50.71	4
OT026G	23.87	7	OT084B	114.19	6	OT745B	39.96	5
OT026N	23.87	7	OT084G	114.19	6	OT746B	43.24	5
OT026W	23.87	7	OT084N	114.19	6	OT914B	31.14	5
OT027B	29.80	8	OT084W	114.19	6	OT914G	31.14	5
OT030B	7.01	7	OT086AG	79.90	6	OT914N	31.14	5
OT031B	5.97	7	OT086B	79.90	6	OT914W	31.14	5
OT033AG	17.99	6	OT086G	79.90	6	OT985B	22.15	19
OT033B	17.99	6	OT086N	79.90	6	OT985B	22.15	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	22.15	16	2CS812SE	20.66	65	2S399B	18.52	27
OT985B	22.15	14	2CS813SE	29.38	65	2S399E	18.52	61
OT985B	22.15	10	2CS814SE	17.22	65	2S399G	18.52	27
OT985B	22.15	5	2CS815SE	15.90	65	2S399W	18.52	27
OT986B	33.27	5	2CS816SE	18.97	65	2S402B	23.87	27
OT986B	33.27	10	2M073B	96.16	66	2S402E	23.87	61
OT986B	33.27	14	2M073E	96.16	66	2S402G	23.87	27
OT986B	33.27	16	2M073W	96.16	66	2S402W	23.87	27
OT986B	33.27	17	2M081E	4.97	66	2S403B	18.97	33
OT986B	33.27	19	2M104E	19.43	66	2S403E	18.97	61
OT988B	18.48	5	2M104W	19.43	66	2S403G	18.97	33
OT988B	18.48	10	2M124E	37.46	66	2S403W	18.97	33
OT988B	18.48	14	2M124W	37.46	66	2S498B	20.54	48
OT988B	18.48	16	2M160B	29.83	66	2S499B	20.54	48
OT988B	18.48	17	2M160E	29.83	66	2S503B	21.44	48
OT988B	18.48	19	2M160W	29.83	66	2V414G	282.21	48
OT989B	24.80	5	2M161B	29.14	67	2V418G	45.95	48
OT989B	24.80	10	2M161E	29.14	67	2V502G	247.07	48
OT989B	24.80	14	2M161W	29.14	67	2W073G	47.78	43
OT989B	24.80	16	2M163B	25.05	67	2W073W	47.78	43
OT989B	24.80	17	2M163E	25.05	67	2W081G	3.56	43
OT989B	24.80	19	2M163W	25.05	67	2W081W	3.56	43
OT999	171.71	5	2M190B	40.29	67	2W086G	12.48	45
1C074W	21.52	50	2M190E	40.29	67	2W086W	12.48	45
1C104W	7.15	50	2M190W	40.29	67	2W088G	11.16	45
1C139W	13.02	50	2M260B	32.89	67	2W088W	11.16	45
1C160W	6.95	50	2M260E	32.89	67	2W102G	12.99	44
1C163W	8.51	50	2M260W	32.89	67	2W102G	12.99	41
1C190W	9.97	50	2M292B	23.97	67	2W102G*	12.99	74
1C344W	10.72	50	2M292E	23.97	67	2W105G	12.78	43
1C344W	10.72	45	2M292W	23.97	67	2W105W	12.78	43
1C346W	10.72	45	2M456B	16.67	68	2W160G	12.78	43
1C346W	10.72	50	2M456E	16.67	68	2W160W	12.78	43
1E073W	18.16	50	2M456W	16.67	68	2W163G	13.51	43
1E082W	2.59	50	2M458B	16.67	68	2W163W	13.51	43
1E104W	7.44	50	2M458E	16.67	68	2W190G	12.48	44
1E129W	11.59	50	2M458W	16.67	68	2W190W	12.48	44
1E139W	12.94	50	2S298B	17.22	33	2W260W	12.48	44
1E156W	10.78	51	2S298E	17.22	61	2W292G	12.78	44
1E160W	7.70	50	2S298G	17.22	33	2W292W	12.78	44
1E163W	8.83	50	2S298W	17.22	33	2Z073B	57.27	39
1E166W	8.83	50	2S299B	15.90	33	2Z073W	57.27	39
1E190W	9.52	50	2S299E	15.90	61	2Z074G	76.35	39
1E344B	10.72	42	2S299G	15.90	33	2Z081B	4.97	66
1E344B	10.72	50	2S299W	15.90	33	2Z081B	4.97	39
1E344W	10.72	42	2S355W	21.54	62	2Z081G	4.97	39
1E344W	10.72	50	2S355W	21.54	25	2Z081G	4.97	66
1E346B	10.72	42	2S355W*	21.54	57	2Z081W	4.97	39
1E346B	10.72	50	2S356W	35.45	25	2Z081W	4.97	66
1E346W	10.72	42	2S356W	35.45	62	2Z086B	11.72	42
1E346W	10.72	50	2S356W*	35.45	57	2Z086G	11.72	42
1O158W	7.15	51	2S360G	26.28	27	2Z086W	11.72	42
1O159W	8.51	51	2S398B	18.52	26	2Z088B	12.00	42
2CS802SE	29.38	65	2S398E	18.52	61	2Z088G	12.00	42
2CS804SE	17.70	65	2S398G	18.52	26	2Z088W	12.00	42
2CS805SE	17.70	65	2S398W	18.52	26	2Z104B	13.97	39

Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no	Cat no	Price £ per piece	Page no
2Z104G	13.97	39	3S292B	78.33	34	4S044G	235.75	21
2Z104W	13.97	39	3S292B	78.33	29	4S044W	235.75	21
2Z124W	24.28	39	3S292G	78.33	29	4S050G	157.59	21
2Z124W*	24.28	74	3S292G	78.33	34	4S073B	168.11	30
2Z128W	24.86	41	3S300B	32.52	37	4S073B	168.11	21
2Z160B	16.79	39	3S300G	34.43	37	4S073E	168.11	59
2Z160G	16.79	39	3S302B	28.51	37	4S073G	168.11	21
2Z160W	16.79	39	3S302G	28.51	37	4S073G	168.11	30
2Z161B	17.79	40	3S319B	37.49	28	4S073W	168.11	21
2Z161G	17.79	40	3S319G	37.49	28	4S073W	168.11	30
2Z161W	17.79	40	3S414G	275.84	37	4S074B	224.11	21
2Z163B	18.22	40	3S435G	83.90	24	4S074B	224.11	30
2Z163G	18.22	40	3S440B	99.00	25	4S074E	224.11	59
2Z163W	18.22	40	3S440G	99.00	25	4S074G	224.11	21
2Z190B	24.53	40	3S530B	220.60	37	4S074G	224.11	30
2Z190G	24.53	40	3S649B	76.85	27	4S074W	224.11	21
2Z190W	24.53	40	3S649G	76.85	27	4S074W	224.11	30
2Z210B	31.76	41	4A830W	11.84	48	4S082B	15.47	30
2Z210G	31.76	41	4CS588SE	33.70	65	4S082B	15.47	21
2Z210W	31.76	41	4CS832SE	326.25	65	4S082E	15.47	59
2Z230W	58.07	41	4CS834SE	326.25	65	4S082G	15.47	21
2Z260B	15.23	40	4CS895SE	135.66	65	4S082G	15.47	30
2Z260G	15.23	40	4M073B	57.29	66	4S082W	15.47	21
2Z260W	15.23	40	4M073E	57.29	66	4S082W	15.47	30
2Z292B	18.00	41	4M073W	57.29	66	4S083B	20.61	30
2Z292G	18.00	41	4M081E	2.39	66	4S083B	20.61	21
2Z292W	18.00	41	4M104B	9.51	66	4S083E	20.61	59
2Z347G	15.62	42	4M104E	9.51	66	4S083G	20.61	21
2Z349G	14.79	42	4M104W	9.51	66	4S083G	20.61	30
2Z359G	28.38	40	4M124E	20.06	66	4S083W	20.61	21
2Z359G*	28.38	74	4M124W	20.06	66	4S083W	20.61	30
3S043B	201.31	21	4M160B	14.20	66	4S084	44.67	21
3S043G	201.31	21	4M160E	14.20	66	4S084	44.67	30
3S074G	262.57	21	4M160W	14.20	66	4S085	298.73	30
3S082B	18.09	21	4M161B	17.37	67	4S085	298.73	22
3S082G	18.09	21	4M161E	17.37	67	4S086	145.14	30
3S083B	24.06	21	4M161W	17.37	67	4S086	145.14	22
3S083G	24.06	21	4M163B	13.19	67	4S095B	71.71	31
3S094B	83.10	23	4M163E	13.19	67	4S095B	71.71	23
3S094G	83.10	23	4M163W	13.19	67	4S095E	71.71	59
3S105B	68.02	22	4M190B	22.69	67	4S095G	71.71	23
3S105G	68.02	22	4M190E	22.69	67	4S095G	71.71	31
3S116B	4.71	29	4M190W	22.69	67	4S096B	78.18	23
3S116G	4.71	29	4M260E	18.31	67	4S096E	78.18	59
3S124B	39.66	22	4M260W	18.31	67	4S096G	78.18	23
3S124G	39.66	22	4M292B	14.04	67	4S097G	82.36	23
3S161B	80.52	23	4M292E	14.04	67	4S098G	82.36	23
3S161G	80.52	23	4M292W	14.04	67	4S104B	34.00	22
3S163B	80.52	24	4S042B	132.92	21	4S104B	34.00	30
3S163G	80.52	24	4S042G	132.92	21	4S104E	34.00	59
3S190B	143.32	25	4S043B	174.74	21	4S104G	34.00	22
3S190G	143.32	25	4S043E	174.74	59	4S104G	34.00	30
3S210G	143.32	26	4S043G	174.74	21	4S104W	34.00	22
3S274B	158.23	28	4S043W	174.74	21	4S104W	34.00	30
3S274G	158.23	28	4S044B	235.75	21	4S105B	73.43	30
3S288B	105.37	37	4S044E	241.57	59	4S105B	73.43	22

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4S105E	73.43	59	4S200B	191.97	26	4S300E	32.11	64
4S105G	73.43	22	4S200G	191.97	26	4S300G	30.35	37
4S105H	73.43	30	4S205B	63.28	22	4S300W	30.35	37
4S105W	73.43	22	4S205G	63.28	22	4S302B	21.71	37
4S105X	73.43	30	4S205W	63.28	22	4S302E	21.71	63
4S106G	100.08	22	4S206B	108.75	23	4S302G	21.71	37
4S107E	61.59	59	4S206B	108.75	31	4S302W	21.71	37
4S116B	15.20	29	4S210B	196.74	26	4S303W	164.27	42
4S116G	15.20	29	4S210G	196.74	26	4S303W	164.27	37
4S116W	15.20	29	4S220B	191.97	26	4S303W	164.27	45
4S120W	40.50	35	4S220G	191.97	26	4S304W	371.23	37
4S121W	43.20	35	4S230B	330.96	26	4S306G	241.07	37
4S124B	35.41	31	4S230G	330.96	26	4S308B	265.02	37
4S124B	35.41	22	4S230W	330.96	26	4S310B	109.62	37
4S124E	35.41	59	4S250G	412.58	26	4S310E	109.62	64
4S124G	35.41	22	4S260B	105.93	32	4S310G	109.62	37
4S124G	35.41	31	4S260E	105.93	60	4S310W	109.62	37
4S124W	35.41	22	4S260G	105.93	32	4S319B	31.44	34
4S124X	35.41	31	4S263B	99.75	31	4S319B	31.44	28
4S125B	53.79	31	4S263E	99.75	60	4S319E	31.44	63
4S125B	53.79	22	4S263G	99.75	31	4S319G	31.44	28
4S125E	53.79	59	4S268B	96.24	32	4S319G	31.44	34
4S125G	53.79	22	4S268E	96.24	60	4S319W	31.44	28
4S125G	53.79	31	4S268G	96.24	32	4S319W	31.44	34
4S130G	10.95	29	4S274B	158.76	29	4S321B	38.69	28
4S149	31.83	11	4S274G	158.76	29	4S321G	38.69	28
4S149	31.83	7	4S274W	158.76	29	4S321W	38.69	28
4S159	33.93	7	4S275B	86.37	34	4S322B	38.69	28
4S159	33.93	12	4S275B	86.37	29	4S322G	38.69	28
4S160B	104.15	23	4S275G	86.37	29	4S322W	38.69	28
4S160G	104.15	23	4S275G	86.37	34	4S326B	185.60	18
4S160W	104.15	23	4S281G	295.25	37	4S326B	185.60	20
4S161B	93.76	23	4S283G	284.39	37	4S326B	185.60	37
4S161E	93.76	60	4S288B	157.27	37	4S326G	185.60	20
4S161G	93.76	23	4S288G	157.27	37	4S326G	185.60	37
4S161W	93.76	23	4S290B	130.41	32	4S361G	92.30	23
4S162G	134.58	24	4S290E	130.41	61	4S363B	92.30	24
4S163B	93.76	24	4S290G	130.41	32	4S363G	92.30	24
4S163G	93.76	24	4S291G	520.99	26	4S363W	92.30	24
4S163W	93.76	24	4S292B	73.30	29	4S369G	253.47	28
4S164B	133.53	24	4S292B	73.30	34	4S374G	161.17	29
4S164G	133.53	24	4S292E	73.30	63	4S380G	39.01	38
4S166G	103.83	24	4S292G	73.30	29	4S383G	45.20	38
4S167G	119.49	24	4S292G	73.30	34	4S384G	60.84	38
4S169B	220.59	28	4S292W	73.30	29	4S385G	132.45	38
4S169G	220.59	28	4S292W	73.30	34	4S391G	50.77	38
4S169W	220.59	28	4S296B	51.67	34	4S392	88.41	38
4S173E	117.80	60	4S296B	51.67	29	4S394G	64.11	38
4S173G	117.80	24	4S296E	51.67	63	4S395G	148.77	26
4S179G	133.20	24	4S296G	51.67	29	4S410B	147.33	32
4S190B	132.35	25	4S296G	51.67	34	4S410E	147.33	61
4S190G	132.35	25	4S296W	51.67	29	4S410G	147.33	32
4S190W	132.35	25	4S296W	51.67	34	4S414G	306.02	37
4S195B	171.55	25	4S298	35.95	23	4S416B	16.85	31
4S195G	171.55	25	4S299	41.38	23	4S416E	16.85	60
4S195W	171.55	25	4S300B	30.35	37	4S416G	16.85	31

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4S430B	326.25	32	4S495E	135.66	62	4S613W	467.21	35
4S430E	326.25	61	4S495G	135.66	32	4S614W	467.21	35
4S430G	326.25	32	4S496B	70.53	31	4S615W	467.21	35
4S435B	87.50	24	4S496E	70.53	59	4S616W	467.21	35
4S435B	87.50	32	4S496G	70.53	31	4S711W	84.17	35
4S435E	87.50	60	4S502B	298.73	28	4S771W	120.43	35
4S435G	87.50	24	4S502G	298.73	28	4S772W	104.52	35
4S435G	87.50	32	4S561B	116.95	24	4S790W	120.04	36
4S435W	87.50	24	4S561G	116.95	24	4S791W	70.98	35
4S435W	87.50	32	4S561W	116.95	24	4T731B	17.21	11
4S440B	120.04	25	4S574B	154.51	34	4T731W	17.21	11
4S440E	120.04	60	4S574E	154.51	63	4T803B	34.39	9
4S440G	120.04	25	4S574G	154.51	34	4T803N	34.39	9
4S440W	120.04	25	4S581B	100.58	27	4T803W	34.39	9
4S444B	120.04	25	4S581G	100.58	27	4T804B	47.75	10
4S444G	120.04	25	4S582B	80.56	27	4T804N	47.75	10
4S444W	120.04	25	4S582G	80.56	27	4T804W	47.75	10
4S445B	133.53	25	4S583B	39.08	27	4T805B	21.34	9
4S445G	133.53	25	4S583G	39.08	27	4T805N	21.34	9
4S445W	133.53	25	4S583W	39.08	27	4T805W	21.34	9
4S450B	97.65	32	4S584B	33.96	27	4T806B	35.46	9
4S450E	97.65	60	4S584G	33.96	27	4T806N	35.46	9
4S450G	97.65	32	4S584W	33.96	27	4T806W	35.46	9
4S461B	92.19	31	4S585B	45.08	33	4T807B	37.59	9
4S461E	92.19	60	4S585E	45.08	63	4T807N	37.59	9
4S461G	92.19	31	4S585G	45.08	33	4T807W	37.59	9
4S461W	92.19	31	4S586B	45.08	33	4T809B	34.05	9
4S462B	99.75	31	4S586E	45.08	62	4T809N	34.05	9
4S462G	99.75	31	4S586G	45.08	33	4T809W	34.05	9
4S463B	92.09	31	4S588B	33.70	27	4T810B	13.61	9
4S463E	92.09	60	4S588B	33.70	33	4T810N	13.61	9
4S463G	92.09	31	4S588E	33.70	62	4T810W	13.61	9
4S469B	232.37	34	4S588G	33.70	27	4T811B	15.71	9
4S469E	232.37	63	4S588G	33.70	33	4T811N	15.71	9
4S469G	232.37	34	4S588W	33.70	27	4T811W	15.71	9
4S474B	154.51	34	4S588W	33.70	33	4T816B	5.00	12
4S474E	154.51	63	4S589B	54.80	27	4T816N	5.00	12
4S474G	154.51	34	4S589G	54.80	27	4T816W	5.00	12
4S483B	40.50	33	4S589W	54.80	27	4T818B	57.70	10
4S483E	40.50	63	4S590B	65.31	28	4T818W	57.70	10
4S483G	40.50	33	4S590B	65.31	34	4T819B	9.19	9
4S484B	40.50	33	4S590G	65.31	28	4T819N	9.19	9
4S484E	40.50	63	4S590G	65.31	34	4T819W	9.19	9
4S484G	40.50	33	4S595E	162.11	62	4T823B	32.36	11
4S490B	130.34	32	4S595G	162.11	25	4T823N	32.36	11
4S490E	130.34	62	4S597E	147.44	62	4T823W	32.36	11
4S490G	130.34	32	4S597G	147.44	25	4T824B	35.74	11
4S491B	577.40	33	4S597G	147.44	32	4T824N	35.74	11
4S491E	577.40	61	4S600W	75.45	36	4T824W	35.74	11
4S491G	577.40	33	4S601W	467.21	35	4T825B	20.49	12
4S492B	92.34	34	4S602W	467.21	35	4T825N	20.49	12
4S492E	92.34	63	4S603W	467.21	35	4T825W	20.49	12
4S492G	92.34	34	4S604W	467.21	35	4T826B	25.42	12
4S493B	247.35	34	4S605W	467.21	35	4T826N	25.42	12
4S493E	247.35	61	4S606W	467.21	35	4T826W	25.42	12
4S495B	135.66	32	4S612W	467.21	35	4T830B	105.96	12

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4T830N	105.96	12	4V814W	65.16	46	4Z128W	18.86	41
4T830W	105.96	12	4V816W	65.16	46	4Z160B	9.07	39
4T832B	30.36	12	4V825W	62.36	47	4Z160G	9.07	39
4T832N	30.36	12	4W073B	24.55	43	4Z160W	9.07	39
4T832W	30.36	12	4W073G	24.55	43	4Z161B	9.53	40
4T833B	12.16	11	4W073W	24.55	43	4Z161G	9.53	40
4T833N	12.16	11	4W081B	2.17	43	4Z161W	9.53	40
4T833W	12.16	11	4W081G	2.17	43	4Z163B	8.53	40
4T834B	10.35	11	4W081W	2.17	43	4Z163G	8.53	40
4T834N	10.35	11	4W102B	13.51	41	4Z163W	8.53	40
4T834W	10.35	11	4W102B	13.51	44	4Z185W	23.76	41
4T835B	84.00	12	4W102G	13.51	41	4Z190B	11.31	40
4T835N	84.00	12	4W102G	13.51	44	4Z190G	11.31	40
4T835W	84.00	12	4W102W	13.51	41	4Z190W	11.31	40
4T836B	29.32	11	4W102W	13.51	44	4Z210W	17.90	41
4T836W	29.32	11	4W105B	7.07	43	4Z260B	12.36	40
4T837B	36.57	11	4W105G	7.07	43	4Z260G	12.36	40
4T837W	36.57	11	4W105W	7.07	43	4Z260W	12.36	40
4T838B	41.11	12	4W160B	6.55	43	4Z263B	7.26	40
4T838N	41.11	12	4W160G	6.55	43	4Z263W	7.26	40
4T838W	41.11	12	4W160W	6.55	43	4Z292B	9.67	41
4T860G	5.59	12	4W161B	7.07	43	4Z292G	9.67	41
4T861G	5.47	12	4W161G	7.07	43	4Z292W	9.67	41
4T862B	43.73	12	4W161W	7.07	43	4Z343G	8.18	49
4T862N	43.73	12	4W163B	7.07	43	4Z343G	8.18	42
4T862W	43.73	12	4W163G	7.07	43	4Z363W	14.65	41
4T864B	5.36	12	4W163W	7.07	43	4Z364W	9.52	41
4T872B	54.04	9	4W166B	6.55	44	5A830W	12.70	48
4T872N	54.04	9	4W166W	6.55	44	5M073B	62.50	66
4T872W	54.04	9	4W190B	7.54	44	5M073E	62.50	66
4T874B	108.14	9	4W190G	7.54	44	5M073W	62.50	66
4T874N	108.14	9	4W190W	7.54	44	5M081E	2.44	66
4T874W	108.14	9	4W260B	7.54	44	5M104B	11.97	66
4T882B	57.61	11	4W260G	7.54	44	5M104E	11.97	66
4T882N	57.61	11	4W260W	7.54	44	5M104W	11.97	66
4T882W	57.61	11	4W292B	7.07	44	5M124E	20.97	66
4T884B	118.01	11	4W292G	7.07	44	5M124W	20.97	66
4T884N	118.01	11	4W292W	7.07	44	5M160B	16.71	66
4T884W	118.01	11	4Z073B	36.15	39	5M160E	16.71	66
4T886B	81.41	11	4Z073W	36.15	39	5M160W	16.71	66
4T886N	81.41	11	4Z074G	48.18	39	5M161B	20.97	67
4T886W	81.41	11	4Z081B	2.42	39	5M161E	20.97	67
4T888B	162.35	11	4Z081B	2.42	66	5M161W	20.97	67
4T888N	162.35	11	4Z081G	2.42	39	5M163B	14.80	67
4T888W	162.35	11	4Z081G	2.42	66	5M163E	14.80	67
4T894B	38.29	10	4Z081W	2.42	39	5M163W	14.80	67
4T999	179.14	10	4Z081W	2.42	66	5M190B	25.86	67
4V801W	37.44	46	4Z104B	6.81	39	5M190E	25.86	67
4V803W	45.80	46	4Z104G	6.81	39	5M190W	25.86	67
4V804W	70.25	46	4Z104W	6.81	39	5M260E	22.12	67
4V806W	40.69	47	4Z120W	9.91	41	5M260W	22.12	67
4V807W	55.56	46	4Z124G	14.70	39	5M292B	13.79	67
4V808W	70.61	46	4Z124W	14.70	25	5M292E	13.79	67
4V809W	39.26	46	4Z124W	14.70	39	5M292W	13.79	67
4V811W	33.34	47	4Z124W	14.70	62	5M455B	8.83	68
4V812W	48.90	46	4Z124W*	14.70	57	5M455E	8.83	68

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5M455W	8.83	68	5W105G	7.54	43	5Z190W	11.91	40
5T503B	52.07	17	5W105W	7.54	43	5Z210B	21.77	41
5T504B	59.33	17	5W160B	6.56	43	5Z210G	21.77	41
5T508B	46.53	17	5W160G	6.56	43	5Z210W	21.77	41
5T509B	31.15	17	5W160W	6.56	43	5Z230W	38.35	41
5T510B	15.14	17	5W161B	7.07	43	5Z260B	12.00	40
5T511B	22.81	17	5W161G	7.07	43	5Z260G	12.00	40
5T516B	5.34	18	5W161W	7.07	43	5Z260W	12.00	40
5T519B	11.38	17	5W163B	6.55	43	5Z263B	8.43	40
5T564B	6.06	18	5W163G	6.55	43	5Z263G	8.43	40
5T574B	156.22	17	5W163W	6.55	43	5Z263W	8.43	40
5T594B	50.10	17	5W166B	6.55	44	5Z292B	10.17	41
5T595B	54.04	18	5W166G	6.55	44	5Z292G	10.17	41
5T596B	57.18	18	5W166W	6.55	44	5Z292W	10.17	41
5V407W	97.91	48	5W185B	8.40	44	5Z344G	8.43	42
5V407W	97.91	49	5W190B	6.56	44	5Z363W	14.65	41
5V468W	112.30	49	5W190G	6.56	44	5Z364W	10.72	41
5V801W	42.58	46	5W190W	6.56	44	5Z455B	6.40	42
5V802W	49.80	47	5W260B	7.54	44	5Z455G	6.40	42
5V803W	68.62	46	5W260G	7.54	44	5Z455W	6.40	42
5V805W	75.14	46	5W260W	7.54	44	6S043E	666.91	59
5V806W	33.76	47	5W292B	6.55	44	6S043G	650.83	21
5V807W	64.70	46	5W292G	6.55	44	6S044G	846.85	21
5V808W	84.68	46	5W292W	6.55	44	6S074B	784.06	21
5V809W	52.15	46	5Z073B	44.65	39	6S074B	784.06	30
5V811W	36.20	47	5Z073W	44.65	39	6S074E	784.06	59
5V812W	59.82	46	5Z074G	59.44	39	6S074G	784.06	21
5V814W	82.26	46	5Z081B	2.43	39	6S074G	784.06	30
5V816W	82.28	46	5Z081B	2.43	66	6S082B	56.73	21
5V823W	82.05	47	5Z081G	2.43	39	6S082B	56.73	30
5V842W	69.34	47	5Z081G	2.43	66	6S082E	56.73	59
5V846W	63.18	47	5Z081W	2.43	39	6S082G	56.73	21
5V848W	158.88	47	5Z081W	2.43	66	6S082G	56.73	30
5V860W	139.55	47	5Z085B	8.53	42	6S084	94.24	21
5V864W	75.43	48	5Z085G	8.53	42	6S084	94.24	30
5V869W	110.72	48	5Z085W	8.53	42	6S099G	183.58	23
5V870W	64.50	48	5Z104B	7.00	39	6S104B	82.40	22
5V871W	30.51	48	5Z104G	7.00	39	6S104B	82.40	30
5V901W	48.34	46	5Z104W	7.00	39	6S104E	82.40	59
5W073B	28.42	43	5Z120W	9.91	41	6S104G	82.40	22
5W073G	28.42	43	5Z124G	13.97	39	6S104G	82.40	30
5W073W	28.42	43	5Z124W	13.97	58	6S105E	206.89	59
5W081B	2.05	43	5Z124W	13.97	39	6S105G	206.89	22
5W081G	2.05	43	5Z128W	19.94	41	6S105G	206.89	30
5W081W	2.05	43	5Z160B	10.72	39	6S124B	121.20	22
5W084B	6.55	45	5Z160G	10.72	39	6S124B	121.20	31
5W084G	6.55	45	5Z160W	10.72	39	6S124E	121.20	59
5W084W	6.55	45	5Z161B	11.39	40	6S124G	121.20	22
5W102B	13.51	41	5Z161G	11.39	40	6S124G	121.20	31
5W102B	13.51	44	5Z161W	11.39	40	6S130G	19.43	29
5W102G	13.51	41	5Z163B	9.53	40	6S161G	317.52	23
5W102G	13.51	44	5Z163G	9.53	40	6S163G	317.52	24
5W102G*	13.51	74	5Z163W	9.53	40	6S190G	573.45	25
5W102W	13.51	41	5Z185W	24.62	41	6S198G	441.95	26
5W102W	13.51	44	5Z190B	11.91	40	6S210G	573.45	26
5W105B	7.54	43	5Z190G	11.91	40	6S218G	441.95	26

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6S238G	781.02	26	8T809B	31.39	13	9T911N	15.92	15
6S274G	430.04	29	8T809W	31.39	13	9T911W	15.92	15
6S292B	160.30	29	8T816B	4.71	14	9T916AG	4.36	16
6S292B	160.30	34	8T816W	4.71	14	9T916B	4.36	16
6S292G	160.30	29	8T819B	11.65	13	9T916G	4.36	16
6S292G	160.30	34	8T819W	11.65	13	9T916N	4.36	16
6S302G	81.41	37	8T840B	17.65	13	9T916W	4.36	16
6S323G	76.18	28	8T840W	17.65	13	9T919AG	9.03	15
6S416E	42.22	60	8T841B	24.68	13	9T919B	9.03	15
6S440G	354.82	25	8T841W	24.68	13	9T919G	9.03	15
6S461B	242.88	31	8T843B	46.18	13	9T919N	9.03	15
6S461E	242.88	60	8T843W	46.18	13	9T919W	9.03	15
6S461G	242.88	31	8T844B	48.59	14	9T964B	4.27	16
6S463B	248.76	31	8T844W	48.59	14	9T974AG	118.51	15
6S463E	248.76	60	8T849B	15.49	13	9T974B	118.51	15
6S463G	248.76	31	8T849W	15.49	13	9T974G	118.51	15
6S474B	350.30	34	8T850B	17.65	13	9T974N	118.51	15
6S474E ^A	350.30	63	8T850W	17.65	13	9T974W	118.51	15
6S474G	350.30	34	8T851B	24.68	13	9T994AG	41.94	16
6S490B	414.69	32	8T851W	24.68	13	9T994B	41.94	16
6S490E	414.69	62	8T853B	41.10	13	9T994G	41.94	16
6S490G	414.69	32	8T853W	41.10	13	10CS025	40.01	110
6S498B	319.92	32	8T854B	48.59	14	10CS050	67.07	110
6S498E	319.92	62	8T854W	48.59	14	10CS100	126.65	110
6S498G	319.92	32	8T864B	4.47	14	10CS310	30.42	114
6S499B	132.98	31	8T874B	146.72	13	10CS311	31.58	114
6S499E	132.98	59	8T874W	146.72	13	10CS501	10.75	119
6S499G	132.98	31	8T894B	46.04	14	12CS050	93.47	110
6T603B	161.51	19	9T903AG	41.17	16	12CS080	147.32	110
6T603G	161.51	19	9T903B	41.17	16	12CS100	184.15	110
6T606B	114.99	19	9T903G	41.17	16	12CS300	1.68	111
6T606G	114.99	19	9T903N	41.17	16	12CS303	11.48	111
6T609B	83.74	19	9T903W	41.17	16	12CS310	41.33	114
6T609G	83.74	19	9T904AG	47.17	16	12CS311	41.33	114
6T610B	19.71	19	9T904B	47.17	16	12CS319	328.15	114
6T610G	19.71	19	9T904G	47.17	16	12CS501	6.40	119
6T611B	57.05	19	9T904N	47.17	16	12CS501	6.40	112
6T611G	57.05	19	9T904W	47.17	16	12CS910	45.53	110
6T616B	5.99	20	9T906AG	31.82	15	12CS920	87.83	110
6T616G	5.99	20	9T906B	31.82	15	12CS960	284.70	110
6T619B	29.32	19	9T906G	31.82	15	16CS050	109.69	110
6T619G	29.32	19	9T906N	31.82	15	16CS080	180.36	110
6T664B	6.52	20	9T906W	31.82	15	16CS100	224.10	110
6T674B	315.03	19	9T909AG	25.89	15	16CS120	260.76	110
6T674G	315.03	19	9T909B	25.89	15	16CS150	323.37	110
6T694B	63.51	19	9T909G	25.89	15	16CS200	448.20	110
6T694G	63.51	19	9T909N	25.89	15	16CS300	1.68	111
6T695B	59.29	19	9T909W	25.89	15	16CS303	14.63	111
6T696B	62.72	19	9T910AG	11.31	15	16CS307	16.17	114
6T999	289.46	19	9T910B	11.31	15	16CS308	20.47	114
8T806B	41.89	13	9T910G	11.31	15	16CS309	32.49	114
8T806W	41.89	13	9T910N	11.31	15	16CS312	36.21	114
8T807B	38.82	13	9T910W	11.31	15	16CS500	1065.75	110
8T807W	38.82	13	9T911AG	15.92	15	16CS501	7.28	119
8T808B	38.82	13	9T911B	15.92	15	16CS501	7.28	112
8T808W	38.82	13	9T911G	15.92	15	16CS505	4.63	112

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16CS505	4.63	119	30CS515	332.70	112	35CS407	170.60	116
16CS506	6.90	112	30CS516	29.24	112	35CS408	8.64	116
16CS913	84.78	110	30CS521	22.50	112	35CS409	120.96	116
16CS914	638.93	110	30CS523	10.56	119	35CS410	20.77	116
16CS916	800.17	110	30CS530	46.66	119	35CS411	118.62	116
16CS920	260.06	110	30CS530	46.66	113	35CS412	4.14	116
16CS925	180.17	110	30CS532	146.38	113	35CS413	73.36	116
20CS100	273.85	110	30CS532	146.38	119	35CS414	99.48	116
20CS120	350.24	110	30CS533	173.75	113	35CS480	88.51	118
20CS140	408.61	110	30CS533	173.75	119	35CS481	281.47	118
20CS160	466.94	110	30CS534	203.13	113	35CS482	157.81	118
20CS180	525.31	110	30CS534	203.13	119	35CS483	157.81	118
20CS200	583.71	110	30CS535	238.32	113	35CS484	154.84	118
20CS300	3.33	111	30CS535	238.32	119	35CS485	48.59	118
20CS307	16.17	114	30CS536	261.86	113	35CS486	157.79	118
20CS501	8.15	119	30CS536	261.86	119	35CS487	132.79	118
20CS501	8.15	112	30CS537	289.85	113	35CS488	326.23	118
20CS600	703.53	110	30CS537	289.85	119	35CS489	13.96	118
25CS309	12.55	114	30CS538	338.06	113	35CS490	13.96	118
25CS321	241.65	114	30CS538	338.06	119	35CS498	27.01	118
25CS331	59.93	115	30CS539	372.27	113	35CS499	27.01	118
25CS332	70.19	115	30CS539	372.27	119	35CS500	107.55	117
25CS334	57.72	115	30CS540	405.90	113	35CS502	45.01	117
25CS348	102.58	114	30CS540	405.90	119	35CS503	52.94	117
25CS349	29.45	114	30CS541	447.43	113	35CS504	74.13	117
25CS350	45.57	114	30CS541	447.43	119	35CS505	8.83	117
30CS301	0.08	111	30CS542	471.66	113	35CS506	8.83	117
30CS302	3.81	111	30CS542	471.66	119	35CS507	17.65	117
30CS304	32.89	111	30CS543	5.44	113	35CS508	49.41	117
30CS305	400.16	111	30CS543	5.44	119	35CS509	52.94	117
30CS306	0.48	111	30CS544	5.20	119	35CS510	61.77	117
30CS307	84.09	111	30CS545	33.36	113	35CS511	75.89	117
30CS308	53.69	111	30CS545	33.36	119	40CS600	3267.15	121
30CS502	191.20	119	30CS546	5.57	120	40CS601	189.73	121
30CS502	191.20	112	30CS547	1.26	113	40CS602	591.56	121
30CS503	217.45	112	30CS547	1.26	120	40CS605	2099.46	121
30CS503	217.45	119	30CS548	96.31	124	40CS606	2133.15	121
30CS504	254.14	112	30CS548	96.31	120	40CS607	2230.70	121
30CS504	254.14	119	30CS549	104.41	120	40CS608	2140.75	121
30CS505	289.23	112	30CS549	104.41	124	40CS609	2174.44	121
30CS505	289.23	119	30CS550	115.58	120	40CS610	2272.00	122
30CS506	319.13	112	30CS550	115.58	124	40CS650	84.29	122
30CS506	319.13	119	30CS551	106.64	120	40CS652	84.29	122
30CS507	354.75	112	30CS551	106.64	124	40CS655	2.23	122
30CS507	354.75	119	30CS552	113.68	120	40CS658	7.85	122
30CS508	390.99	112	30CS552	113.68	124	40CS659	4.17	122
30CS508	390.99	119	30CS553	121.61	120	40CS660	10.12	122
30CS509	425.25	112	30CS553	121.61	124	40CS661	4.40	122
30CS509	425.25	119	30CS554	49.85	112	40CS662	14.04	122
30CS510	461.41	112	35CS400	117.30	116	40CS663	230.35	122
30CS510	461.41	119	35CS401	79.80	116	40CS664	13.21	123
30CS511	497.59	112	35CS402	153.71	116	40CS665	32.67	123
30CS511	497.59	119	35CS403	120.96	116	40CS666	45.24	123
30CS512	524.40	112	35CS404	92.43	116	40CS668	146.44	122
30CS512	524.40	119	35CS405	277.23	116	3003458	89.87	69
30CS513	45.20	112	35CS406	105.02	116	3003459	112.65	69

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3003460	162.05	69	3003635Q ^Δ	11.35	72	3003710*	412.30	72
3003461	253.23	69	3003637Q	11.98	72	3003713 ^Δ	450.89	73
3003462	337.71	69	3003638	11.60	73	3003716 ^Δ	372.33	73
3003463	537.95	69	3003639Q	7.66	72	3003718*	688.89	72
3003464	836.18	69	3003641	12.99	72	3003719*	697.44	72
3003465	32.00	69	3003642	13.77	73	3003723*	658.24	72
3003466	37.91	69	3003643Q	15.05	72	3003724	10.59	72
3003467	52.16	69	3003645Q	14.29	72	3003725Q	10.20	72
3003468	60.31	69	3003646 ^Δ	13.71	73	3003726	11.21	73
3003477	44.64	69	3003647Q	9.97	72	3003727	11.16	73
3003493	9.91	76	3003648 ^Δ	17.47	73	3003728	40.89	71
3003494 ^Δ	9.91	76	3003649	13.07	72	3003730 ^Δ	36.69	71
3003495	14.10	76	3003650	13.71	73	3003732 ^Δ	34.75	76
3003496 ^Δ	14.10	76	3003651Q ^Δ	26.33	72	3003734 ^Δ	44.26	76
3003497	17.90	76	3003652	17.43	73	3003736	48.48	76
3003498 ^Δ	28.50	76	3003654Q	19.55	72	3003738Q ^Δ	67.09	76
3003499	56.20	76	3003655	17.54	73	3003739	64.36	75
3003505	19.62	77	3003656Q	22.35	72	3003740	66.71	76
3003506	19.40	77	3003657	17.47	73	3003741 ^Δ	80.52	75
3003507	23.19	77	3003658Q ^Δ	27.17	72	3003743	159.06	75
3003508	24.63	77	3003659 ^Δ	17.47	73	3003755	75.52	75
3003509	25.28	77	3003660Q ^Δ	29.19	72	3003756	74.91	75
3003510	25.91	77	3003661 ^Δ	25.62	73	3003776 ^Δ	91.18	75
3003511 ^Δ	39.38	77	3003662	22.63	72	3003777	101.22	75
3003512	71.50	77	3003663	20.10	73	3003791 ^Δ	178.26	71
3003513*	331.39	77	3003664 ^Δ	21.69	72	3003792	24.70	71
3003515	839.83	77	3003665	20.79	73	3003796 ^Δ	7.29	69
3003516 ^Δ	53.76	78	3003666	22.28	72	3003797 ^Δ	7.29	69
3003528 ^Δ	64.44	78	3003667	20.79	73	3003798	5.37	69
3003550 ^Δ	40.76	76	3003668	22.28	72	3003800 ^Δ	7.90	69
3003554 ^Δ	39.75	76	3003669 ^Δ	21.48	73	3003801 ^Δ	7.90	69
3003569	6.72	70	3003670	22.50	72	3003803 ^Δ	8.13	69
3003570 [†]	7.40	71	3003671	20.04	73	3003804 ^Δ	9.92	69
3003572	8.51	70	3003672Q ^Δ	27.39	72	3003805 ^Δ	9.92	69
3003573 [†]	10.50	71	3003673 ^Δ	21.48	73	3003807 ^Δ	9.92	69
3003574	12.35	70	3003674	21.59	72	3003808	9.92	69
3003575	14.97	71	3003675	21.48	73	3003809	9.92	69
3003576	41.26	70	3003676 ^Δ	30.02	72	3003810	9.84	69
3003577	12.09	70	3003677	29.90	73	3003812 ^Δ	15.80	69
3003579 [†]	16.20	71	3003678Q	40.44	72	3003815	15.80	69
3003582	19.81	70	3003679 ^Δ	29.71	72	3003816	17.54	69
3003583 [†]	26.01	71	3003681Q ^Δ	36.71	72	3003817 ^Δ	17.54	69
3003584	63.07	70	3003683Q ^Δ	41.39	72	3003820	5.39	69
3003585	51.49	70	3003685	29.71	72	3003821	5.82	69
3003587 [†]	66.71	71	3003686 ^Δ	29.90	73	3003822Q ^Δ	6.69	69
3003597	5.28	70	3003687	110.56	73	3003823Q	6.69	69
3003598	5.91	71	3003688	103.36	72	3003824	7.68	69
3003601 ^Δ	9.26	71	3003689	111.69	73	3003825	7.70	69
3003602	14.97	71	3003690 ^Δ	103.45	72	3003826	7.70	69
3003603	14.88	71	3003691 ^Δ	85.37	73	3003827Q ^Δ	9.47	69
3003605 ^Δ	27.35	71	3003698*	222.43	73	3003828	10.32	69
3003619 ^Δ	76.52	76	3003702*	221.48	73	3003829	10.36	70
3003620 ^Δ	76.02	76	3003704*	318.34	73	3003830	11.25	70
3003622	11.21	71	3003705*	372.33	72	3003831	10.97	70
3003633	11.69	72	3003707Q ^Δ	310.85	72	3003832	11.25	70
3003634 ^Δ	13.77	73	3003709*	412.04	72	3003833	11.26	70

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3003834	11.21	70	3018007 ^Δ	76.24	76	3027837	52.92	89
3003835	11.22	70	3018008	18.53	77	3027842	66.14	89
3003836Q ^Δ	18.67	70	3018025 ^Δ	112.19	78	3027847	120.21	89
3003837Q	18.67	70	3018026 ^Δ	53.76	78	3027848	135.84	89
3003838Q	18.67	70	3018027 ^Δ	53.76	78	3027849	149.39	89
3003839	24.57	70	3018028 ^Δ	53.76	78	3027850	122.13	89
3003840	24.59	70	3018029 ^Δ	64.44	78	3027852	116.29	89
3003841	6.37	69	3018030 ^Δ	93.83	78	3027853	162.78	89
3003842Q	6.69	69	3018031 ^Δ	495.24	78	3027854	146.05	89
3003843	7.69	69	3018297	433.29	81	3027855	122.89	89
3003856*	404.22	70	3018299	612.62	81	3027856	110.67	89
3003858	9.84	69	3018300	496.85	81	3028271	387.63	89
3003860	5.53	77	3018301	681.11	81	3041228	75.26	81
3003861	4.71	77	3018302	866.53	81	3041229	121.36	81
3003862 ^Δ	4.71	77	3018704 ^Δ	5.81	77	3043453 ^Δ	68.57	70
3003863	4.72	77	3018705 ^Δ	7.57	77	3043454 ^Δ	78.93	70
3003865 ^Δ	5.97	77	3018706 ^Δ	7.57	77	3043455 ^Δ	129.39	70
3003866	11.21	77	3018707 ^Δ	8.79	77	3043457 ^Δ	185.59	70
3003867 ^Δ	13.98	77	3018708	1.42	77	3043503	203.32	78
3003868	45.22	77	3018709	1.58	77	3043504	478.55	78
3003869	13.17	77	3018710 ^Δ	8.79	77	3043505	497.94	78
3003870	13.38	77	3018804	674.23	81	3043506	730.86	78
3003871 ^Δ	13.38	77	3018808*	111.51	69	3053972	504.31	89
3003872 ^Δ	31.58	77	3018809*	293.03	69	3061202	2056.58	81
3003873	42.54	77	3018810*	405.92	69	3061211	27.50	81
3003874	4.71	77	3018811	180.27	70	3061212	39.56	81
3003905 ^Δ	12.52	77	3018812	178.58	70	3061213	60.02	81
3003908 ^Δ	15.17	78	3018813	178.58	70	3065639	152.82	89
3003910 ^Δ	15.17	78	3018815Q ^Δ	59.10	76	3065640	144.44	89
3003912 ^Δ	15.17	78	3018818*	247.69	71	3065641	140.43	89
3003913 ^Δ	15.17	78	3018819 ^Δ	603.21	71	3065642	162.77	89
3003917 ^Δ	35.78	78	3018820	143.18	70	3065643	165.62	89
3003921 ^Δ	35.78	78	3018821*	234.08	70	3065644	228.93	89
3003924 ^Δ	35.78	78	3018822 ^Δ	323.57	70	3065645	182.80	89
3003927 ^Δ	35.78	78	3018824Q ^Δ	241.09	72	3065646	176.08	89
3003935 ^Δ	12.52	77	3018826*	567.36	72	3065647	155.97	89
3003936 ^Δ	21.28	77	3018827 ^Δ	487.02	72	3065902	137.16	57
3003937 ^Δ	21.28	77	3018828*	657.81	72	3070529	505.69	81
3003938 ^Δ	35.18	77	3018829*	832.12	72	3070629	486.89	77
3003943	50.21	71	3018830 ^Δ	222.43	73	3070630*	333.53	72
3003944	6.27	71	3018831*	221.48	73	3070631*	157.73	76
3004372	237.62	89	3018832 ^Δ	316.54	73	3070632*	284.62	70
3004378	463.34	81	3018833*	319.48	73	3070633*	222.43	72
3004379	617.29	81	3018834 ^Δ	372.33	73	3070634*	232.30	72
3004380	545.84	81	3018835 ^Δ	372.33	73	3070827	43.86	81
3004381	680.73	81	3018836 ^Δ	375.85	73	3071219	403.53	81
3011162	66.35	92	3018837 ^Δ	374.77	73	3071220	463.34	81
3014918*	405.92	70	3021196	142.63	92	3071221	617.29	81
3017974*	262.34	76	3024667	60.27	89	3071222	430.77	81
3017975*	337.09	76	3024668	65.94	89	3071224	545.84	81
3017976*	407.16	76	3027829	86.26	89	3071225	680.73	81
3017978*	413.32	71	3027830	62.96	89	3071226	505.69	81
3017993	40.63	70	3027831	70.96	89	3072765	203.32	78
3018002*	316.54	73	3027832	45.58	89	3072958	16.07	81
3018003*	318.56	73	3027833	46.27	89	3072989	23.01	81
3018005 ^Δ	53.35	71	3027834	50.94	89	3072990	35.03	81

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3075609	67.59	69	3079818	26.93	83	3080014	78.58	56
3075823	64.15	73	3079819	24.09	83	3080016	12.39	56
3075824 ^Δ	14.88	70	3079820	33.47	83	3080019	32.88	58
3079754	5.68	82	3079821	12.61	83	3080021	80.28	58
3079755	7.40	82	3079822	12.61	83	3080023	17.14	58
3079756	11.11	82	3079823	12.61	83	3080026	52.79	56
3079757	19.34	82	3079824	12.61	83	3080030	58.76	56
3079758	30.81	82	3079825	17.49	83	3080033	70.82	56
3079759	7.89	82	3079826	17.23	83	3080034	89.36	56
3079760	10.20	82	3079827	17.46	83	3080035	99.72	56
3079761	11.16	82	3079828	19.00	83	3080036	114.25	56
3079762	18.89	82	3079829	16.29	83	3080044	98.71	56
3079763	18.49	82	3079833	27.80	83	3080050	218.78	56
3079764	29.65	82	3079834	26.48	83	3080063	39.33	56
3079768	7.08	82	3079835	28.27	83	3080078	28.21	58
3079769	8.90	82	3079836	27.88	83	3080082	54.29	58
3079770	12.64	82	3079837	30.61	83	3080088	28.17	57
3079771	19.71	82	3079839	43.09	83	3080090	82.06	57
3079772	38.57	82	3079840	47.62	83	3080095	165.91	57
3079773	15.09	82	3079842	42.39	83	3080096	165.91	57
3079774	21.92	82	3079854	18.60	82	3080097	165.91	57
3079775	42.00	82	3079855	22.84	82	3080103	27.10	58
3079776	8.96	82	3079856	23.60	82	3080105	99.67	58
3079777	10.92	82	3079859	8.21	84	3080106	11.50	58
3079778	15.76	82	3079860	9.12	84	3082542	31.27	77
3079779	17.56	82	3079861	10.44	84	3083259	22.59	82
3079780	19.65	82	3079913	93.06	58	3084561	7.44	76
3079781	31.34	82	3079915	220.84	58	3084562	8.88	76
3079782	13.66	82	3079917	44.92	58	3084563	4.40	70
3079783	17.30	82	3079950	39.54	56	3084564 ^f	4.44	71
3079784	21.10	82	3079951	42.28	56	3084565	4.45	70
3079785	23.60	82	3079952	44.61	56	3084566 ^f	5.91	71
3079786	35.87	82	3079953	45.23	56	3084567	5.25	71
3079788	9.65	84	3079954	46.39	56	3084570	10.81	72
3079789	9.83	84	3079959	89.75	56	3084571	8.79	73
3079790	10.96	84	3079960	92.23	56	3084572	11.13	72
3079791	14.17	84	3079961	94.81	56	3084573	11.21	73
3079793	18.73	84	3079962	101.79	56	3084574	11.21	72
3079796	31.64	84	3079965	12.38	56	3084575	11.22	73
3079797	46.71	84	3079966	12.38	56	3084576	5.39	69
3079798	7.10	83	3079967	10.17	56	3084577	4.40	71
3079799	8.26	83	3079968	12.38	56	3090788	154.77	90
3079800	9.07	83	3079969	10.17	56	3090826	122.02	90
3079801	10.03	83	3079980	134.89	56	3090828	81.82	90
3079802	11.46	83	3079981	75.22	56	3090829	128.82	90
3079803	14.91	83	3079982	49.63	56	3094673	56.25	77
3079804	21.85	83	3079983	49.63	56	3094674	94.28	77
3079805	32.82	83	3079985	55.50	56	3095140	505.69	81
3079806	36.00	83	3079991	154.27	56	3095141	680.73	81
3079811	9.63	83	3079992	154.27	56	3095142	545.84	81
3079812	13.77	83	3079994	212.95	56	3095168	228.90	75
3079813	19.79	83	3079996	22.22	56	3095680	545.84	81
3079814	33.72	83	3079997	22.22	56	3095681	505.69	81
3079815	55.20	83	3080008	363.90	57	3095682	680.73	81
3079816	23.23	83	3080010	252.35	57	3097151	101.26	73
3079817	25.91	83	3080012	40.72	56	4009725	102.01	72

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4009748	51.55	78	4023077	656.94	91	4048906	3508.89	91
4009749 ^Δ	101.91	78	4023364	125.06	92	4048907	5614.22	91
4009750 ^Δ	87.77	78	4023365	134.20	92	4053507	353.72	92
4009751 ^Δ	168.72	78	4023375	54.50	74	4053508	139.65	91
4009761 ^Δ	15.17	78	4023376	62.14	74	4053509	666.69	92
4009793	10.45	75	4024189	3325.26	79	4053510	649.16	92
4011390	871.20	79	4024190	3871.24	79	4055036	8.20	88
4011402 ^Δ	42027.21	79	4024393	3325.26	79	4061068	259.06	76
4011403	1170.85	79	4024432	3325.26	79	4063088 ^Δ	15.98	74
4011453	25.86	79	4024493	2779.33	79	4063089 ^Δ	16.20	74
4012001 ^Δ	9.13	74	4024569	3325.26	79	4063092 ^Δ	8.45	75
4012002 ^Δ	11.35	74	4025509	53.12	79	4063766	29.82	75
4012113	6.45	74	4025566	4.21	58	4063767	29.82	75
4012117	8.90	74	4025568	4.21	58	4063768	29.82	75
4012118	10.36	74	4025988 ^Δ	64.57	78	4063769	37.91	75
4012121 ^Δ	9.34	74	4025989 ^Δ	46.35	78	4063770 ^Δ	37.91	75
4012122	11.35	74	4025992 ^Δ	290.46	78	4063772	63.69	75
4012125	9.71	74	4026102	107.06	58	4063971	9.71	85
4012126	11.45	74	4026106	159.72	58	4063972	12.14	85
4012131	10.42	74	4026109	343.52	58	4063974	19.21	85
4012132	13.11	74	4026438	40.72	75	4064166	29.12	85
4012137	11.41	74	4026439 ^Δ	42.27	75	4064167	67.54	85
4012138	13.24	74	4026441 ^Δ	207.87	75	4064182	11.50	85
4012141	11.96	74	4026442 ^Δ	432.17	75	4064185	16.68	85
4012142	13.07	74	4026689	34.41	87	4064190	24.49	85
4012146	13.32	74	4026690	45.01	87	4064193	56.76	85
4012147	16.20	74	4026691	62.21	87	4064199	10.65	85
4012151	48.28	74	4026692	40.36	87	4064200	14.35	85
4012155	48.93	74	4026693	56.92	87	4064202	23.85	85
4012159	56.98	74	4026694	78.89	87	4064204	35.89	85
4012326	8.45	75	4026699	7.94	87	4064205	110.17	85
4012329	5.90	74	4028869	1.04	111	4064235	21.60	86
4012331	11.84	74	4031987	230.21	92	4064239	37.14	86
4012333 ^Δ	14.20	74	4031988	224.68	92	4064262	10.41	86
4012335	12.13	74	4035779	929.87	92	4064271	25.42	86
4012337	12.47	74	4035780	332.78	92	4064273	26.17	86
4012339	9.66	74	4036272	66.35	92	4064274	45.59	86
4012341 ^Δ	13.14	74	4036273	137.18	91	4064276	51.61	86
4012343	10.85	74	4036330	4642.29	78	4064277	11.28	88
4012345	46.33	74	4037386	26.83	91	4064278	10.73	88
4012346 ^Δ	12.13	74	4042219 ^Δ	608.64	71	4064279	13.83	88
4013530	999.60	91	4042914	2779.33	79	4064280	20.17	88
4013538	349.12	91	4042915	287.86	79	4064281	23.45	88
4013541	553.62	92	4043224	303.03	91	4064282	30.88	88
4013542	119.48	91	4043225	324.25	91	4064283	33.49	88
4013543	119.48	91	4046556	350.90	92	4064315	52.60	86
4013553	51.49	91	4046557	350.90	92	4064323	15.09	85
4013559	66.22	91	4046558	385.99	92	4064324	21.94	85
4013562	70.94	91	4046559	385.99	92	4064326	33.76	85
4013571	43.07	87	4046560	561.43	92	4064328	51.61	85
4013572	43.07	87	4046691	403.53	92	4064329	134.43	85
4013573	43.07	87	4046694	403.53	92	4064354	22.26	85
4020757	90.65	79	4046695	421.07	92	4064361	32.08	85
4023071	40.39	91	4046756	421.07	92	4064371	47.91	85
4023073	44.14	91	4046758	596.51	92	4064881	433.52	76
4023075	57.99	91	4046759	631.60	92	4064882	493.33	76

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4064999	9588.53	78	4081515	10.14	76	HD13A/28W	27.19	97
4065000	475.12	78	4081516	10.36	76	HD14/15W	10.06	97
4065001	475.12	78	4081517	10.38	76	HD14/22W	10.06	97
4065138	32.88	58	4081518	10.71	76	HD14/28W	27.19	97
4065141	32.88	58	4081519	14.92	76	HD14A/22W	10.06	97
4065143	32.88	58	4081520	14.53	76	HD15/15W	10.06	97
4065145	4.21	58	4081521	15.26	76	HD15/22W	10.06	97
4065188	3.51	58	4081522	26.99	76	HD18/15W	10.06	96
4065190	8.60	58	4081523	34.93	76	HD18/22W	10.06	96
4065192	4.21	58	4999998	117.41	92	HD18/28W	27.19	96
4065978	14.77	87	4999999	118.96	92	HD18A/22W	10.64	96
4065979	15.92	87	BV1/21 WH	73.19	52	HD25A/15W	7.07	98
4065981	20.27	87	BV1 WH	54.12	52	HD25B/15W	8.36	98
4065982	29.60	87	BV3 WH	13.01	52	HD25B/22W	9.05	98
4065983	33.02	87	BV11 WH	13.66	52	HD26A/10W	7.18	98
4066001	14.20	85	CV1 WH	54.12	52	HD26A/15W	5.97	98
4066003	15.41	85	CV3 WH	13.01	52	HD26B/15W	7.18	98
4066004	20.71	85	CV11 WH	13.66	52	HD26B/22W	7.76	98
4066005	27.92	85	FBP3 WH	65.03	53	HD27/15W	7.81	98
4066007	45.12	85	FBP6 WH	129.92	53	HD62/10W	6.03	95
4066009	14.68	85	FCP3 WH	65.03	53	HD62/15W	5.40	95
4066011	16.01	85	FCP6 WH	129.92	53	HD62/22W	6.79	95
4066012	21.65	85	FCW6 WH	5.30	53	HD62/28W	11.30	95
4066013	29.96	85	FSBW6 WH	5.30	53	HD74 GR	31.40	106
4066015	45.73	85	FSCW6 WH	5.30	53	HD75 GR	77.41	106
4066028	11.44	86	HD1/10W	6.79	95	HD78 GR	79.18	106
4066029	22.86	86	HD1/15W	4.07	95	HD125A/15W	13.24	99
4066030	13.60	86	HD1/22W	5.72	95	HD125B/15W	15.68	99
4066031	19.00	86	HD1/28W	16.46	95	HD125B/22W	15.68	99
4066033	21.90	86	HD2/15W	7.04	96	HD125D/15W	16.80	99
4066034	32.96	86	HD2/22W	5.44	96	HD125E/15W	36.00	100
4066035	40.56	86	HD2/28W	13.19	96	HD125EH/15W	36.00	100
4066041	9.40	86	HD3B/15W	12.80	96	HD125F/15W	23.70	100
4066042	11.44	86	HD3B/22W	11.16	96	HD125G/15W	23.70	100
4066043	14.43	86	HD3C/22W	12.80	96	HD125H/15W	15.57	99
4066044	18.66	86	HD4/10W	7.69	95	HD125H/22W	19.03	99
4066045	32.37	86	HD4/15W	5.20	95	HD225A/15W	18.16	99
4066046	21.42	86	HD4/22W	7.69	95	HD225B/15W	20.52	99
4066067	25.95	86	HD4A/15W	7.69	95	HD225B/22W	21.81	99
4066068	26.48	86	HD5/10W	7.69	95	HD225E/15W	39.40	100
4066072	11.44	86	HD5/15W	4.94	95	HD225H/15W	22.80	99
4066074	11.44	86	HD5/22W	7.24	95	HD225H/22W	26.33	99
4066076	12.70	86	HD5/28W	19.71	95	HD425A/15W	12.55	99
4066078	44.04	86	HD8/10W	8.31	96	HX6/15W	17.44	101
4066079	27.17	86	HD8/15W	5.77	96	HX6/22W	18.96	101
4066082	39.51	86	HD8/22W	8.31	96	HX18/15W	17.39	102
4066095	47.65	85	HD10/10W	9.51	95	HX19/15W	18.19	102
4066097	75.45	85	HD10/15W	6.93	95	HX20/15W	5.88	97
4066099	135.73	85	HD10/22W	9.51	95	HX20/22W	7.39	97
4066133	18.52	86	HD10/28W	27.19	95	HX20/28W	33.08	97
4066449	14.02	58	HD12/22W	10.06	96	HX22/15W	22.33	102
4066452	20.04	58	HD12/28W	27.19	96	HX22/22W	29.15	102
4066454	31.00	58	HD13/15W	10.06	97	HX24/15W	16.24	101
4066723	307.02	91	HD13/22W	10.06	97	HX28/10W	11.61	101
4066725	596.51	92	HD13/28W	27.19	97	HX28/15W	11.30	101
4067485	29.12	87	HD13A/22W	10.06	97	HX28/22W	16.24	101

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HX28/28W	31.92	101	HX89B/22W	18.88	103	HXXC5015 RD	424.64	94
HX29/10W	11.61	101	HX91T/22W	37.93	104	HXXC5022 BU	653.20	94
HX29/15W	11.30	101	HX92/22W	13.56	104	HXXC5022 RD	653.20	94
HX29/22W	16.24	101	HX92B/22W	14.83	103	KL1-10	6.79	95
HX29/28W	30.86	101	HX92T/15W	63.71	104	KL1-15	4.07	95
HX30/15W	6.17	101	HX93T/15W	93.43	105	KL1-22	5.72	95
HX30/22W	10.38	101	HX94/22W	18.21	104	KL1-28	16.46	95
HX30/28W	15.23	101	HX94B/22W	18.88	103	KL2-15	7.04	96
HX31/15W	6.29	101	HX94T/15W	127.56	105	KL2-22	5.44	96
HX31/22W	10.38	101	HX95A GR	36.51	105	KL2-28	13.19	96
HX31/28W	15.23	101	HX95A GR*	36.51	87	KL3B-15	12.80	96
HX32/15 GY	11.30	101	HX96/22W	20.82	104	KL3B-22	11.16	96
HX35/15W	17.68	102	HX96B/22W	20.82	104	KL3C-22	12.80	96
HX35/22W	25.19	102	HX97 GY	5.56	105	KL4-10	7.69	96
HX36/15W	31.62	102	HX97 GY*	5.56	87	KL4-15	5.20	96
HX36/22W	34.00	102	HX98 GY	6.44	105	KL4-22	7.69	96
HX37/15W	15.80	102	HX98 GY*	6.44	87	KL4A-15	7.69	96
HX38/15W	15.02	102	HX100 BL	10.95	107	KL5-10	7.69	95
HX39 GR	5.86	101	HX101/15W	15.24	107	KL5-15	4.94	95
HX44/10W	2.13	97	HX103 BL	3.05	107	KL5-22	7.24	95
HX44/15W	2.48	97	HX104 BL	3.67	107	KL5-28	19.71	95
HX44/22W	2.48	97	HX109 GY	5.88	105	KL6-15	17.44	101
HX44/28W	2.97	97	HX110 GY	4.93	105	KL6-22	18.96	101
HX57/15 GRp/pack 8.30		107	HX112 GY	0.32	105	KL8-10	8.31	96
HX57/22 GRp/pack 8.30		107	HX113 WH	12.90	105	KL8-15	5.77	96
HX58/15 GYp/pack 8.30		107	HX200	21.59	107	KL8-22	8.31	96
HX58/22 GYp/pack 8.30		107	HXC25/15 BL	66.00	107	KL10-10	9.51	95
HX60/10W	0.96	95	HXC25/22 BL	82.59	107	KL10-15	6.93	95
HX60/15W	0.97	95	HXC50/15 BL	132.10	107	KL10-22	9.51	95
HX60/22W	1.27	95	HXC50/22 BL	164.30	107	KL10-28	27.19	95
HX60/28W	1.88	95	HXX03/15W	13.32	94	KL12-22	10.06	96
HX65/10W	0.37	106	HXX03/22W	26.02	94	KL12-28	27.19	96
HX65/15W	0.58	106	HXX03/28W	35.69	94	KL13-15	10.06	97
HX65/22W	0.58	106	HXX06/15W	27.45	94	KL13-22	10.06	97
HX65/28W	0.71	106	HXX06/22W	53.88	94	KL13-28	27.19	97
HX75/15 GR	3.79	106	HXX06/28W	73.47	94	KL13A-22	10.06	97
HX75/22 GR	5.33	106	HXX10/15W	42.50	94	KL13A-28	27.19	97
HX77/10W	3.72	106	HXX10/22W	82.94	94	KL14-15	10.06	97
HX77/15W	3.05	106	HXX10/28W	111.81	94	KL14-22	10.06	97
HX78/10W	0.55	106	HXX25/10W	90.27	94	KL14-28	27.19	97
HX78/15W	0.62	106	HXX25/15W	106.18	94	KL14A-22	10.06	97
HX78/22W	0.62	106	HXX25/22W	207.29	94	KL15-15	10.06	97
HX78/28W	0.69	106	HXX25/28W	279.51	94	KL15-22	10.06	97
HX79/10W	0.62	106	HXX50/10W	177.81	94	KL18-15	10.06	96
HX79/15W	0.71	106	HXX50/15W	210.16	94	KL18-22	10.06	96
HX79/22W	0.71	106	HXX50/22W	410.45	94	KL18-28	27.19	96
HX79/28W	0.80	106	HXX50/28W	556.36	94	KL20-15	5.88	97
HX81 GR	907.73	106	HXX80/15W	336.26	94	KL20-22	7.39	97
HX85/15W	0.58	106	HXX100/10W	350.28	94	KL25A-15	7.07	98
HX85/22W	0.58	106	HXX100/15W	413.82	94	KL25B-15	8.36	98
HX85/28W	0.97	106	HXX120/15W	496.60	94	KL25B-22	9.05	98
HX86/15W	0.44	106	HXXC2528 BU	537.76	94	KL26A-10	7.18	98
HX86/22W	0.58	106	HXXC2528 RD	537.76	94	KL26A-15	5.97	98
HX88/22W	13.56	103	HXXC5010 BU	369.31	94	KL26B-15	7.18	98
HX88B/22W	14.02	103	HXXC5010 RD	369.31	94	KL26B-22	7.76	98
HX89/22W	18.21	103	HXXC5015 BU	424.64	94	KL27-15	7.81	98

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KL62-10	6.03	95	UFHC1-30	469.58	109
KL62-15	5.40	95	UFHC2-15	748.14	109
KL62-22	6.79	95	UFHC2-20	767.96	109
KL62-28	11.30	95	UFHC2-30	855.48	109
KL88-22	13.56	103	UFHC2-40	875.29	109
KL88B-22	14.02	103	UFHC6-40	1222.64	109
KL89-22	18.21	103	UFHC6-60	1665.52	109
KL89B-22	18.88	103	UFHC6-80	2086.89	109
KL92-22	13.56	104	UFHC8-12	1171.88	109
KL92B-22	14.83	103	UFHC8-15	1323.86	109
KL94-22	18.21	104	UFHC8-20	1521.82	109
KL94B-22	18.88	103	UFHC8-30	2069.77	109
KL96-22	20.82	104	WC004W	37.88	36
KL96B-22	20.82	104	WC204W	46.20	36
KL125A-15	13.24	99	WC404W	46.29	36
KL125B-15	15.68	99	WC904W	53.98	36
KL125B-22	15.68	99			
KL125D-15	16.80	99			
KL125E-15	36.00	100			
KL125EH-15	36.00	100			
KL125F-15 •	23.70	100			
KL125G-15 •	23.70	100			
KL125H-15	15.57	99			
KL125H-22	19.03	99			
KL225A-15	18.16	99			
KL225B-15	20.52	99			
KL225B-22	21.81	99			
KL225E-15	39.40	100			
KL225H-15	22.80	99			
KL225H-22	26.33	99			
KL425A-15	12.55	99			
KLB20-28	33.08	97			
KLB22-15	22.33	102			
KLB22-22	29.15	102			
KLB24-15	16.24	101			
KLB28-10	11.61	101			
KLB28-15	11.30	101			
KLB28-22	16.24	101			
KLB28-28	31.92	101			
KLB29-10	11.61	101			
KLB29-15	11.30	101			
KLB29-22	16.24	101			
KLB29-28	30.86	101			
KLB35-15	17.68	102			
KLB35-22	25.19	102			
KLB91T-22	37.93	104			
KLB92T-15	63.71	104			
KLB93T-15	93.43	105			
KLB94T-15	127.56	105			
S170 WH	98.46	53			
S171 WH	94.38	53			
S172 WH	90.31	53			
S951 BL	71.32	53			
UFHC1-12	342.45	109			
UFHC1-15	362.26	109			
UFHC1-20	449.77	109			

Notes

Notes

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