TERRAIN





Product Guide















Introduction

Having pioneered the development of solvent-welded systems, Terrain soil and waste products represent the industry benchmark for quality, installation flexibility and product innovation backed by the highest levels of customer service.

Terrain systems include an extensive range of soil and waste drainage products for commercial, industrial, housing and public sector developments, all built on the strength of our Terrain brand.

Systems include solvent-welded and push-fit options for both soil and waste drainage; overflow and trap systems; and a comprehensive range of adaptors and accessories. Products are available in a range of colours.

- Industry leading range of solvent and push-fit soil and waste solutions.
- Unique products offer unrivalled installation options.
- High quality finish colour matched to Terrain rainwater systems.
- Suitable for commercial and domestic installations.

100-Solvent



Terrain Soil System

82, 110 and 160mm PVC-u soil pipes and fittings

- Wide range of bends, branches and access fittings to meet all application requirements
- BBA certified Air Admittance Valve

100P-PushFit



82, 110 and 160mm PVC-u soil pipes and fittings for push-fit jointing

- Saves time and labour costs
- Also for use with Terrain roof outlets for rainwater drainage

200-Solvent



Terrain Waste System

Solvent-welded MuPVC system

- 32, 40 and 50mm integrated systems
- Wide range of bends and adaptors
- Integrated floor gullies

300-PushFit



Terrain Waste System

Push-fit polypropylene system

- 32, 40 and 50mm integrated systems
- Quick and easy to install
- Saves time and labour costs
- Resistant to most oils, bleaches and detergents
- Wide range of bends and fittings

500-Overflow



Terrain Overflow System

Solvent-welded PVC-u system for cold, non-pressure water

- 19mm PVC-u pipe and fittings
- Range of tank connectors

600-Traps



Terrain Traps

Polypropylene traps

- 32, 40 and 50mm polypropylene traps
- Range includes telescopic and self resealing bottle traps
- All traps have universal compression outlets which, in addition to all Terrain waste pipes, will accept: other MuPVC waste pipe

TERRAIN

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Products marked In the product listings are available in CAD form for ready incorporation into design drawings. If you'd like a disk or CD ROM in the appropriate format, simply contact the Technical Advisory Service.





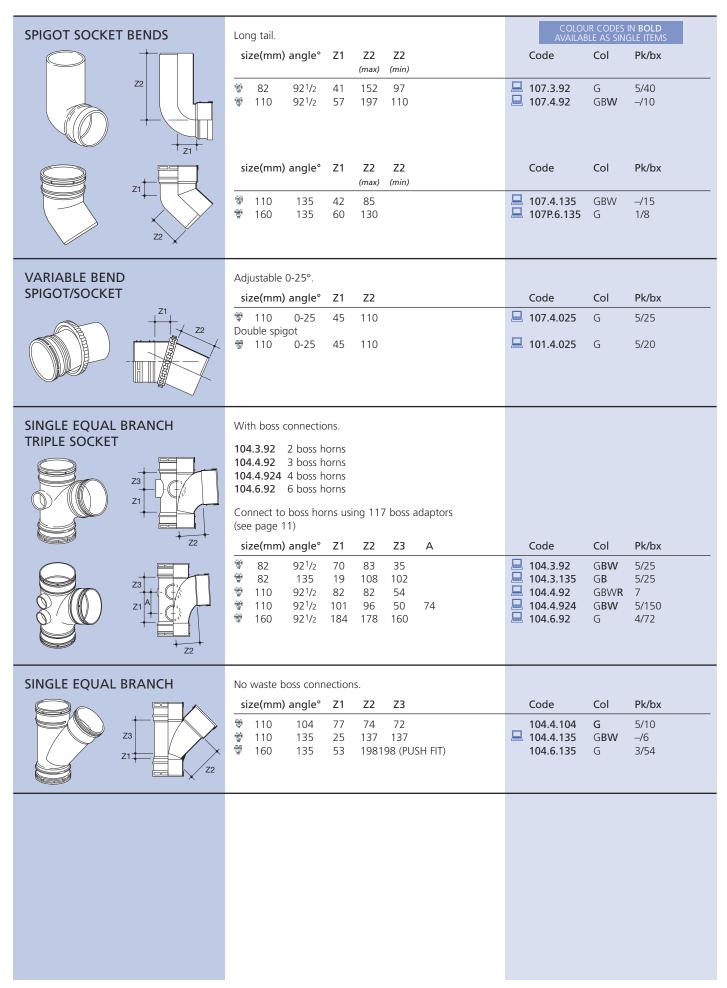


SOIL PIPE	Plain ended. size(mm) L T (min)	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS Code Col Pk/St 100.3.30 GBW 2/88 100.3.40 GBW 2/88 100.4.30 GBWR 2/48 100.4.40 GBWR 2/48 100.6.30 G 1/33 100.6.40 G 1/33
RING SEAL ADAPTOR	Converts any Terrain solvent socket to a ring seal expansion socket. size(mm) A 82 21 110 21 160 26	Code Col Pk/bx 109.3 GB 5/120 109.4 GBWR 5/180 109.6 G 5/60
STRAIGHT COUPLER DOUBLE SOCKET	Double solvent socket. size(mm) L Z	Code Col Pk/bx 110.3 GBW 5/85 110.4 GBWR 5/60 110.6 G -/6
EXPANSION COUPLER	To allow expansion in longer pipe runs. size(mm) L Z	Code Col Pk/bx 111.3 GBW 5/65 111.4 GBW -/10 111.6 G -/3
SLIP COUPLER	Double ring seal socket. size(mm) L	Code Col Pk/bx ■ 111.S.3 G 5/30 ■ 111.S.4 GB 5/20 ■ 111.S.6 G -/5
SWEPT BEND DOUBLE SOCKET	(82mm) 92 ¹ /2° and 135° as standard. (110mm) 92 ¹ /2°, 104°, 112 ¹ /2° and 135° as standard. size(mm) angle° Z1 Z2 82 92 ¹ /2 102 98 110 92 ¹ /2 75 83 160 92 ¹ /2 178 184 110 104 80 76 110 112 ¹ /2 65 63 82 135 25 25 110 135 21 30 160 135 44 44	Code Col Pk/bx 101.3.92 GBW 5/40 101.4.92 GBWR -/10 101.6.92 G -/2 101.4.104 G 5/20 101.4.112 GB 5/20 101.3.135 GBW 5/50 101.4.135 GBWR 5/30 101.6.135 G -/4





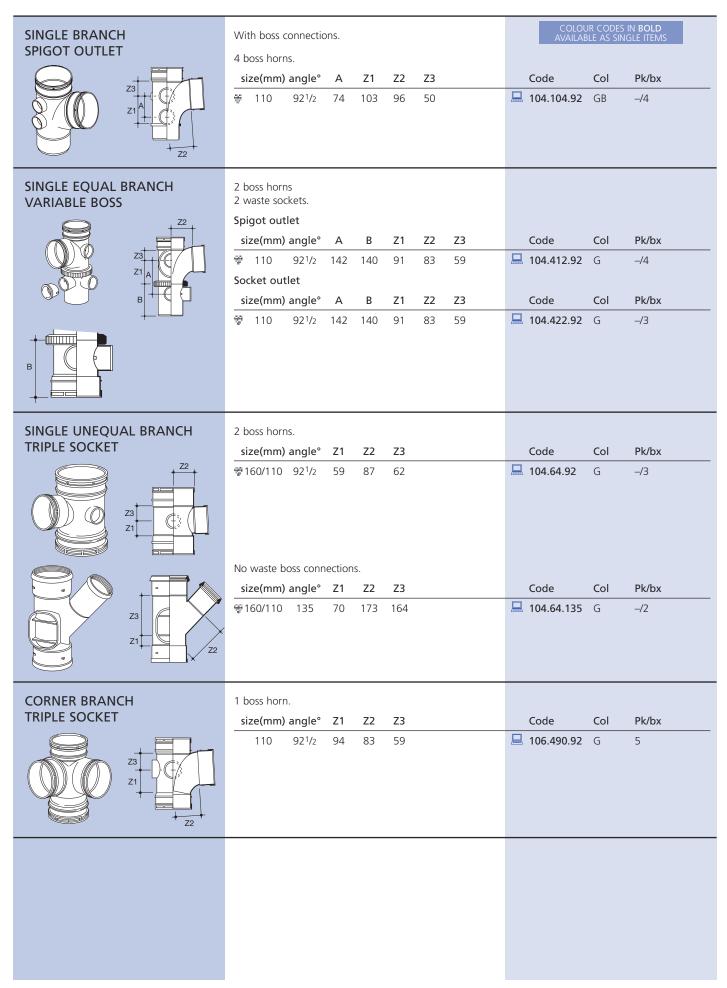








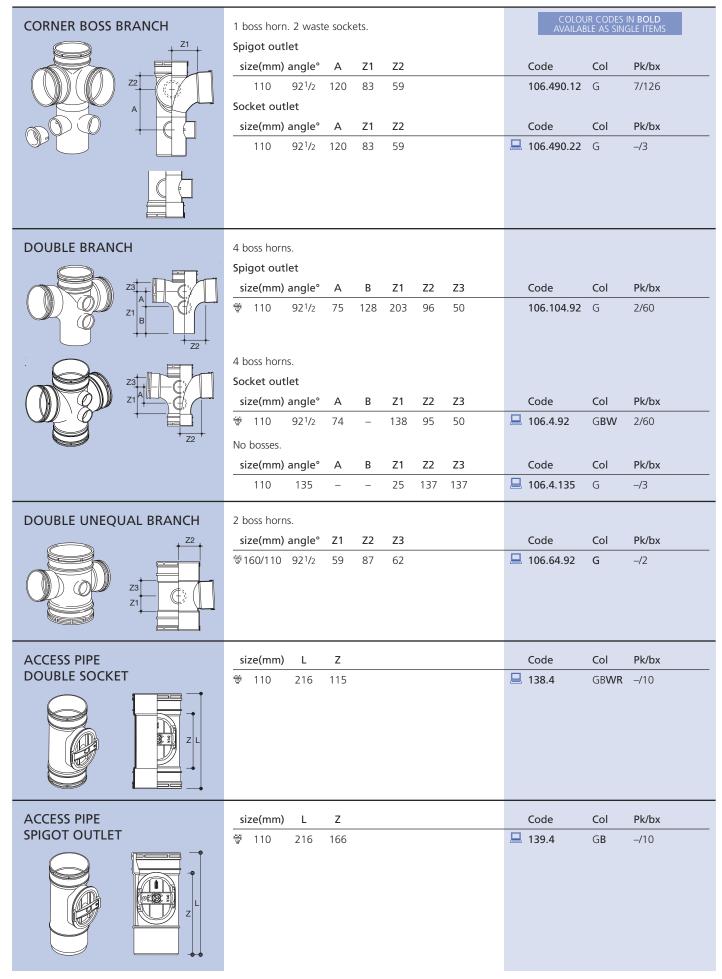








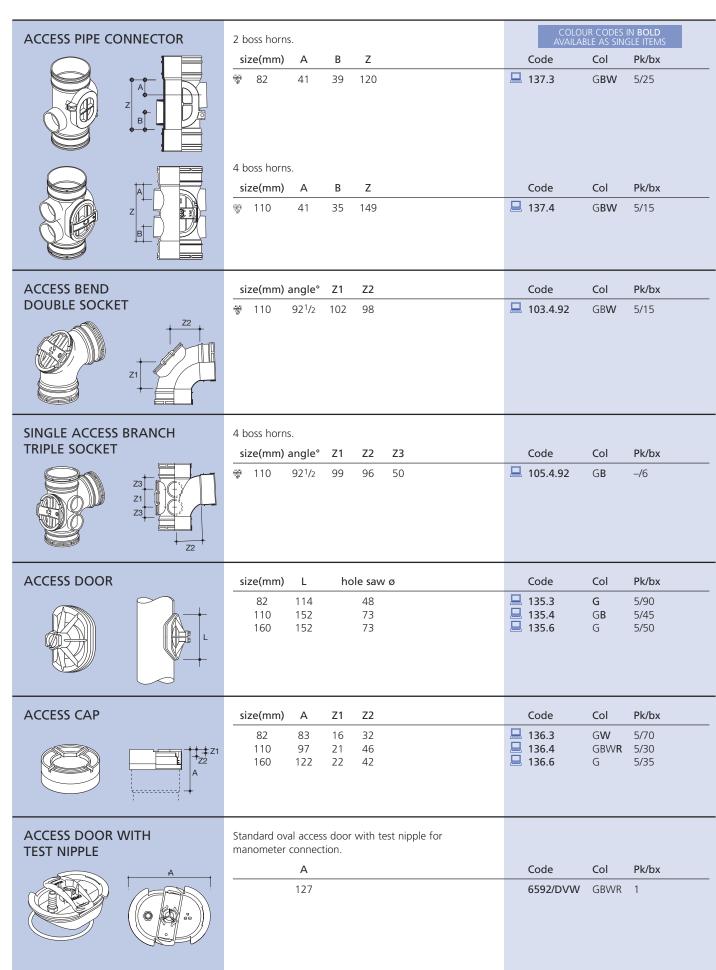


















THERMAL MOVEMENT LIMITER		AVAIL	OUR CODES IN BOLD ABLE AS SINGLE ITEMS
CB	size(mm) A B C 82 100 129 154 110 100 158 178 160 100 232 260	Code 190.3 190.4 190.6	Col Pk/bx Self 1/20 Self 5/15 Self 1/5
INTERMEDIATE SUPPORT BRACKET	To support horizontal pipework. size(mm) A B C 82 100 129 154 110 100 158 178 160 100 232 260	Code 191.3 191.4 191.6	Col Pk/bx Self 1/30 Self 1/20 Self -/10
TWO-PIECE PIPE BRACKET AB C D	Galvanised steel size(mm) A B C D 82 140 114 76 124 110 175 147 89 152 160 216 196 114 197	Code 140.3 140.4 140.6	Col Pk/bx Self 10/40 Self 10/30 Self 5/25
ONE-PIECE PIPE BRACKET AB AB A A A A B A	size(mm) A B C D	Code 143.3 143.4	Col Pk/bx GBW 5/150 GBWR 10/80
ADJUSTABLE PIPE BRACKET PLASTIC-COATED	Both have self coloured backplates. size(mm) A B C C (max) (min)	Code	Col Pk/bx
A B		144.4	B 1/30
PIPE BRACKET GALVANISED DRIVE-IN	size(mm) A B C 110 178 152 59	Code 142.4	Col Pk/bx Self 10/20



WEATHERING APRON	Makes weathertight cover between soil pipe and lead		COLO! AVAILA!	JR CODES I BLE AS SINC	N BOLD GLE ITEMS
	slate at roof level.				
	For lead slates		C. I.	C.I	DI (I
	size(mm) A B		131.3	Col	Pk/bx
A	82 102 38 110 128 48		131.3	GB GBWR	5/60 5/90
	160 179 51		131.6	G	5/50
	For asphalt upstand				
	size(mm) C D		Code	Col	Pk/bx
+ c + c	82 204 59 110 203 46		131.3.200 131.4.200	G G	5/35 5/30
	110 205 40		131.4.200	<u> </u>	5/30
WEATHERING SLATES	Makes watertight seal around pipe at roof level. Available for flat or pitched roof.				
	Colours: Base – Aluminium Cone – Black				
	For flat roof				
	size(mm) Plate size		Code	Col	Pk/bx
	82 to 110 406 x 406		149.16.00	Alu/B	- /10
	For sloping roof (min 30°)				
	size(mm) Plate size		Code	Col	Pk/bx
	82 to 110 457 x 457		149.18.22	Alu/B	1/10
	For sloping roof (min 17°)				
	size(mm) Plate size		Code	Col	Pk/bx
	82 to 110 610 x 610		149.24.22	Alu/B	1/10
VENT COM	-:/		C. I.	6.1	Pk/bx
VENT COWL	size(mm) A	_	Code	Col	
VENT COWL	82 51		150.3	GB	5/120
VENT COWL					5/120
	82 51 110 64		150.3 150.4	G B GB WR	5/120 5/185
	82 51 110 64		150.3 150.4	G B GB WR	5/120 5/185
	82 51 110 64 160 83		150.3 150.4	G B GB WR	5/120 5/185
	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts.		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
DUCT COWL	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts.		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
DUCT COWL	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
DUCT COWL	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
DUCT COWL	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in		150.3 150.4 150.6	GB GBWR G	5/120 5/185 5/65
DUCT COWL	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure.		150.3 150.4 150.6 Code 152.4	GB GBWR G	5/120 5/185 5/65 Pk/bx 5/25
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L		150.3 150.4 150.6 Code 152.4	GB GBWR G	5/120 5/185 5/65 Pk/bx 5/25
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure.		150.3 150.4 150.6 Code 152.4	GB GBWR G	5/120 5/185 5/65 Pk/bx 5/25
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L		150.3 150.4 150.6 Code 152.4	GB GBWR G	5/120 5/185 5/65 Pk/bx 5/25
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15
DUCT COWL AUTOMATIC AIR	82 51 110 64 160 83 Stops rainwater from entering ventilation ducts. size(mm) A L 110 205 80 Allows air to enter soil system, protecting water seals in traps from effects of negative pressure. size(mm) A B L 82/110 160 50 138		150.3 150.4 150.6 Code 152.4	GB GBWR G Col GBR Col G	5/120 5/185 5/65 Pk/bx 5/25 Pk/bx 5/15



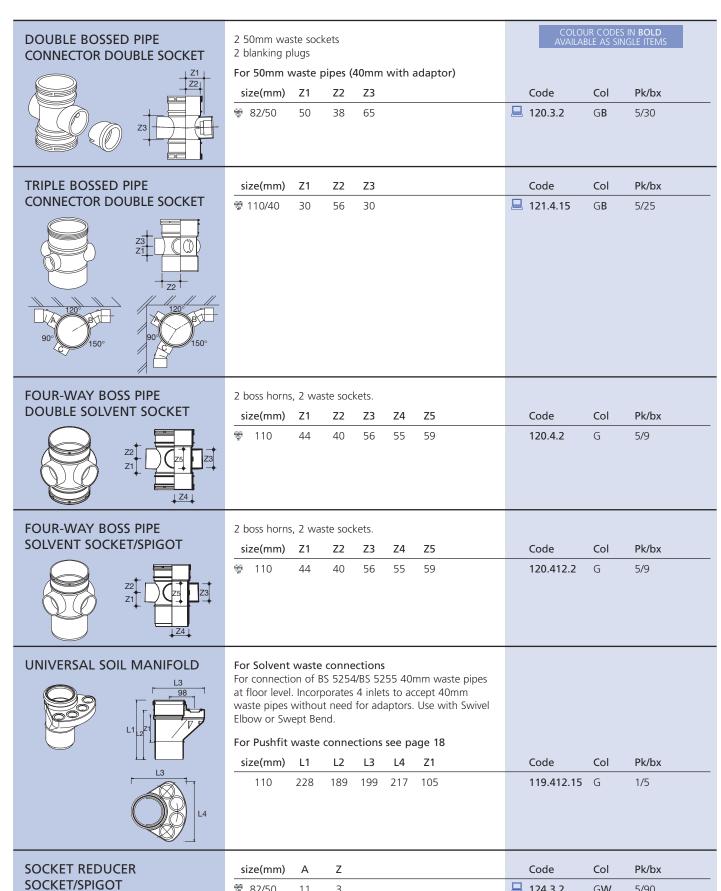


TWO PART WASTE BOSS	For 32mm waste pipe	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
SOLVENT SOCKET	size(mm) A Z hole saw ø	Code Col Pk/bx
+ A + Z + T	110/32 79 53 48 For 40mm waste pipe	112.4.125 G 5/200
	size(mm) A Z hole saw ø	Code Col Pk/bx
	82/40 69 39 57 110/40 82 53 57	112.3.15 G 5/150 112.4.15 G 5/150
	For 50mm waste pipe	
	size(mm) A Z hole saw ø	Code Col Pk/bx
	110/50 86 53 70 160/50 110 77 70	112.4.2 GW 5/100 = 112.6.2 G 5/100
SOCKET PLUG	size(mm) L	Code Col Pk/bx
	♥ 110 69 ♥ 160 92	130.4 GBW 5/50 130.6 G 5/35
SELF LOCKING BOSS	For 32mm waste pipe	
SEAL RING SOCKET	size(mm) A Z hole saw ø	Code Col Pk/bx
A	110/32 111 60 60 For 40mm waste pipe	☐ 122.4.125 GW 5/130
	size(mm) A Z hole saw ø	Code Col Pk/bx
	110/40 111 60 64	☐ 122.4.15 GB 5/100
Z	For 50mm waste pipe	
	size(mm) A Z hole saw ø	Code Col Pk/bx
	110/50 119 60 75	■ 122.4.2 GBW 5/60
SINGLE BOSSED PIPE	For 32mm waste pipe	
CONNECTOR	size(mm) Z1 Z2 Z3	Code Col Pk/bx
DOUBLE SOCKET	₹ 110/32 30 56 31	L 120.4.125 GBWR 5/30
z3	For 40mm waste pipe	
Z1	size(mm) Z1 Z2 Z3	Code Col Pk/bx
	♥ 110/40 30 56 31 For 50mm waste pipe	■ 120.4.15 GBWR 5/30
T _{Z2}	size(mm) Z1 Z2 Z3	Code Col Pk/bx
	₩ 110/50 30 59 31	□ 123.4 GBW 5/30
CINCLE DOCCED DIDE		
SINGLE BOSSED PIPE CONNECTOR SPIGOT	For 40mm waste pipe size(mm) Z1 Z2 Z3	Code Col Pk/bx
	\$120(1111) \$21 \$22 \$23 \$\Pi\$ \$110/40 \$28 \$56 \$27	☐ 120.412.15 GR 5/30
Z3 Z1 Z1 Z2	¥ 110,40 Z5 30 Z7	120.412.13 GK 3/30









\$2/50

110/82

160/110

110/50

11

24

11

22

3

3

3

25

GW

GBW

GBW

G

5/90

5/60

5/60

5/45

124.3.2

124.4.3

124.6.4

124.4.2



STRAIGHT BOSS ADAPTOR RING SEAL SOCKET	For 32mm waste pipe use on stack	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
	size(mm) A [†] Z [†] hole saw Ø	Code Col Pk/bx
	₩ 82 107 61 51 ₩ 110 119 74 51 ₩ 160 144 99 51 For 40mm waste pipe	117.125 GBW 5/180 117.125 GBW 5/180 117.125 GBW 5/180
	use on stack size(mm) A [†] Z [†] hole saw ø	Code Col Pk/bx
Z	★ 82 107 61 51 ★ 110 119 74 51 ★ 160 144 99 51 For 50mm waste pipe	117.15 GBWR 5/160 117.15 GBWR 5/160 117.15 GBWR 5/160
I A I	use on stack	
	size(mm) A [†] Z [†] hole saw ø 82 107 61 51 110 119 74 51	Code Col Pk/bx 117.2 GBW 5/120 117.2 GBW 5/120
	# 160 144 99 51	117.2 GBW 5/120
BOSS ADAPTOR BEND SOLVENT SOCKET	For 40mm waste pipe use on stack	
	size(mm) A Z1 Z2 hole saw ø	Code Col Pk/bx
	** 82 106 82 22 51 ** 110 119 95 22 51 ** 160 145 121 22 51	117.15.90 GBW 5/125 117.15.90 GBW 5/125 117.15.90 GBW 5/125
A	For 50mm waste pipe use on stack	
722	size(mm) A Z1 Z2 hole saw Ø 82 120 89 30 51	Code Col Pk/bx 117.2.90 GBW 5/190
	★ 110 132 101 30 51 ★ 160 158 127 30 51	117.2.90 GBW 5/190 117.2.90 GBW 5/190
72		117.2.150 G 5/190
Z1	♥ 110 - 92 11 51 ♥ 160 - 118 11 51	117.2.150 G 5/190 117.2.150 G 5/190
ADAPTOR TO	Push fit into bore of underground pipe.	
UNDERGROUND DRAIN	size(mm) L	Code Col Pk/bx
	82/110 54 Note: As a Terrain Underground product different	4DW3 B 5/50
+-	discount structure applies.	
<u> </u>		
ADAPTOR TO CAST IRON	size(mm) A B Z1	Code Col Pk/bx
SPIGOT	82 60 98 240 110 64 127 236	126.3.12 G 5/30 126.4.12 G 5/15
Z1 Z1		



ADAPTOR SADDLES	Used with 117 Waste Adaptors to enable direct connection of 32mm and 40mm waste pipe to soil pipe.	COLO AVAILA	our codes in Bold Ble as single items
	For 40mm waste pipe		6 1 21 1
Z1	size(mm) Z1 110/40 29	Code 115P.4	Col Pk/bx GR 5/140
PVC-U CAULKING BUSH	To connect soil pipe to sockets of other material. Sold caulked into sockets. size(mm) A B C Z 110 133 124 63 67	Code 132.4	Col Pk/bx G 5/40
WC MANIFOLD CONNECTORS FIN SEAL SPIGOT	When used in conjunction with a branch 104, up to seven WC pans can be connected either side of the soil stack. size(mm) angle° Z1 Z2	Code	Col Pk/bx
	110 5 14 58 110 14 19 58 110 24 24 58 110 34 26 70	129.4.05 129.4.14 129.4.24 129.4.34	W -/6 W -/6 W 5/10 W 5/10
DUOFIX WC MANIFOLD	size(mm) angle° Z1 Z2	Code	Col Pk/bx
BEND CONNECTORS FIN SEAL SPIGOT	90/110 5 52 65 90/110 14 57 63 90/110 24 60 70 90/110 34 64 78 90/110 9 6.4 62.3 90/110 18 11.3 67.4 90/110 29 18.3 77.3	107.35.05 107.35.14 107.35.24 107.35.34 F107.35.09 F107.35.18 F107.35.29	B 1/12
WC CONNECTORS 14° FIN SEAL SPIGOTS	size(mm) Z1 Z2 Z2 (max) (min)	Code	Col Pk/bx
71 72	110 19 90 57	= 129.4.104	W 5/30
WC CONNECTORS SPIGOT OUTLET	For connection of WC pans to <i>existing</i> soil or waste pipework previously connected to traditional 'S' mode pan.		
+ ²¹	size(mm) angle° L Z1 Z2	Code	Col Pk/bx
	110 98 150 63 240	129.4.90	W -/5







WC CONNECTORS		COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
SOCKET OUTLET	size(mm) angle° L Z1	Code Col Pk/bx
	₩ 110 2 ¹ / ₂ 101 12	□ 128.4.02 W 5/50
Z1	size(mm) angle° L Z1 Z2	Code Col Pk/bx
Z2	章 110 90 155 61 55	□ 128.4.90 W 5/25
90° WC TURNED CONNECTOR SOCKET OUTLET	For connecting non-BS 5503 WC pans to soil pipe.	
B B	size(mm) angle° A B L Z1 Z2	Code Col Pk/bx
A Z2	110 92 ¹ / ₂ 72 133 207 52 72	□ 102.4.5 W 5/20
WC STRAIGHT CONNECTOR	For connecting non-BS 5503 WC pans to soil pipe.	
SOCKET OUTLET	size(mm) A B Z1	Code Col Pk/bx
A Z1	110 52 133 12	□ 125.4.5 W 5/25
WC VARIABLE CONNECTOR	Adjustable 0-25°.	
VARIABLE BEND	size(mm) angle° Z1 Z2	Code Col Pk/bx
71 72	♥ 110 0-25 45 86	□ 128.4.025 W 5/25



SOIL PIPE SINGLE SOCKET-ENDED	size(mm) L1 T (min) ▼ 82 3m 3.2 ▼ 82 4m 3.2 ▼ 110 3m 3.2 ▼ 110 4m 3.2 ▼ 160 3m 3.3 ▼ 160 4m 3.3	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS Code Col Pk/St 100P.3.30 G 1/88 100P.3.40 G 1/88 100P.4.30 GBW 2/67 100P.4.40 GBW 2/67 100P.6.30 G 1/33 100P.6.40 G 1/33
SLIP COUPLER DOUBLE SOCKET	110	Code Col Pk/bx 111.SP4 G 5/40
STRAIGHT COUPLER DOUBLE SOCKET	With central stop. size(mm) L Z \$ 82 103 6 \$ 110 129 6 \$ 160 188 10	Code Col Pk/bx 110P.3 G 5/30 110P.4 GBW 5/40 110P.6 G -/5
PIPE END SOCKET SPIGOT/SOCKET	size(mm) L1 L2 Z	Code Col Pk/bx 111P.3 G 5/60 111P.4 GBW -/20
SWEPT BEND SPIGOT/SOCKET	size(mm) angle° L1 Z1 Z2 ♥ 82 92¹/2 149 109 161 ♥ 110 92¹/2 142 85 145 ♥ 160 92¹/2 215 135 215 ♥ 110 112¹/2 152 104 184 ♥ 82 135 76 36 89 ♥ 110 135 89 42 119 ♥ 160 135 140 60 130	Code Col Pk/bx 101P.3.92 G 5/25 101P.4.92 GBW -/10 101P.6.92 G 1/4 101P.4.112 G -/10 107P.3.135 G 5/40 107P.4.135 GBW -/15 107P.6.135 G 1/8
TIGHT RADIUS BEND SPIGOT/SOCKET	size(mm) angle° L1 Z1 Z2	Code Col Pk/bx 107P.4.92 G –/10





OFFSET BEND	Тор	COLOUR CODES IN BOLD
	size(mm) L1 L2 Z1 Z2	AVAILABLE AS SINGLE ITEMS Code Col Pk/bx
L1 Z1 Z22 L12 L12 L2 L2 L2 L2 L2	♥ 110 119 73 71 54	101P.4T.112 GB 5/25
L1 (27)	Bottom size(mm) L1 Z1 Z2	Code Col Pk/bx
72		101P.4B.112 GB 5/20
SINGLE BRANCH SPIGOT OUTLET	With spigot bosses. 2 boss horns.	
	size(mm) angle° L1 L2 Z1 Z2 Z3	Code Col Pk/bx
Z1	[₩] 82 92 ¹ / ₂ 225 125 54 85 131	104P.3.92 G 5/15
	5 boss horns.	
Z1A+1 22 22 122 122 122 122 122 122 122 122	size(mm) angle° L1 L2 Z1 Z2 Z3 A B 110 92¹/2 278 152 58 96 164 19 57 ♥ 160 92¹/2 440 242 90 155 260	Code Col Pk/bx 104P.4.92 GBW 8 104P.6.92 G 1/4
	size(mm) angle° L1 L2 Z1 Z2 Z3	Code Col Pk/bx
L1 23 23 L2	110 112 ¹ / ₂ 349 165 95 95 184	104P.4.112 G 1/5
SINGLE EQUAL BRANCH PLAIN	No boss connections.	
PLAIN	size(mm) angle° L1 L2 Z1 Z2 Z3	Code Col Pk/bx
L1 Z2 Z2 L2 Z2 L2		104P.4.135 G -/6
DOUBLE EQUAL BRANCH SPIGOT OUTLET	4 boss connections. size(mm) angle° L1 L2 Z1 Z2 Z3	Code Col Pk/bx
	110 92 ¹ / ₂ 287 172 66 124 173	106P.4.92 GB –/2
Z2 Z3 L1 Z3		







ACCESS PIPE AND COVER		COLOU AVAILAE	UR CODES IN BOLD BLE AS SINGLE ITEMS
SINGLE SOCKET	size(mm) L1 L2 Z1	Code	Col Pk/bx
Z ₁ L ₁	· 82 193 97 153	139P.3	G -/10
	size(mm) L1 L2 Z1	Code	Col Pk/bx
	₹ 110 222 114 175	139P.4	GB -/10
	Access door aperture size: 172 x 130mm diameter – secured by 2 screws.		
	size(mm) L1 L2 Z1	Code	Col Pk/bx
	♥ 160 366 198 305	139P.6	G 1/5
ACCESS BEND SINGLE SOCKET	Access door aperture size: 110 x 80mm diameter – secured by locking mechanism (use self tapping screw for anti-vandal locking).	C- 1-	Col District
	size(mm) angle° L1 L2 Z1 Z2 110 92¹/2 41 69 91 157	Code 103P.4.92	Col Pk/bx GB 5/15
+Z1-			
ACCESS SINGLE EQUAL BRANCH SINGLE OUTLET	With waste bosses. 4 boss horns. Access door aperture size: 114 x 80mm diameter – secured by locking mechanism (use self tapping screw for anti-vandal locking).		
	size(mm) L1 L2 Z1 Z2 Z3	Code	Col Pk/bx
	110 136 74 87 105 172 쭣	105P.4.92	G –/4
ACCESS DOOR WITH TEST NIPPLE	Standard oval access door with test nipple for manometer connection.		
A	A	Code	Col Pk/bx
	127	6592/DVW	GBWR 1
ACCESS CAP	size(mm) A Z1 Z2	Code	Col Pk/bx
Z21 A	82 81 26 13 110 102 34 10 160 134 34 10	136P.3 136P.4 136P.6	G 5/40 GBW 5/40 G 1/15



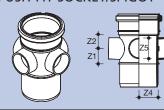
STRAP-ON BOSS	For 32mm waste pipe	COLO AVAILA	ur codes i Ble as sinc	IN BOLD GLE ITEMS
	size(mm) L1 hole saw ø	Code	Col	Pk/bx
	110/32 116 60 Part No. 9105.237	112P.4.125	GBW	5/100
L1	For 40mm waste pipe			
	size(mm) L1 hole saw ø	Code	Col	Pk/bx
NEW! Now allows back-to-back	110/40 116 60 Part No. 9105.237	112P.4.15	GBW	5/90
dual connection of similar	For 50mm waste pipe			
and/or dissimilar pipe diameters	size(mm) L1 hole saw ø	Code	Col	Pk/bx
ulameters	110/50 120 60 Part No. 9105.237	112P.4.2	GB	5/85
DOSS ADADTORS STRAIGHT				
BOSS ADAPTORS STRAIGHT	For 32mm waste pipe use on			
	stack	C. I.	6.1	DI (I
	size(mm) A [†] Z [†] hole saw ø 82 107 61 51	Code 117.125	Col GBW	Pk/bx 5/180
	♥ 110 119 74 51	117.125	GBW	5/180
		117.125	G BW	5/180
	use on			
	stack size(mm) A [†] Z [†] hole saw ø	Code	Col	Pk/bx
	₹ 82 107 61 51	117.15	GBWR	5/160
Z	♥ 110 119 74 51 ♥ 160 144 99 51	117.15 117.15	GBWR GBWR	
A	For 50mm waste pipe			
	use on			
	stack size(mm) A [†] Z [†] hole saw ø	Code	Col	Pk/bx
	♥ 82 107 61 51 ♥ 110 119 74 51	117.2 117.2	GBW GBW	5/120 5/120
	160 144 99 51	117.2	GBW	5/120
ADAPTOR SADDLES	For 40mm waste pipe			
	size(mm) Z1 hole saw ø	Code	Col	Pk/bx
		115P.4	G	5/140
Z1 Z1				
REDUCERS	size(mm) L1 L2 Z1	Code	Col	Pk/bx
	♥ 82/50 117 44 15 ♥ 110/50 136 45 16	124P.3.2 124P.4.2	G GB	5/60 5/50
L1 721		124P.4.3 124P.6.4	G G	5/40 5/15
CHORT DOCCED DIDE			6.1	DI 4
SHORT BOSSED PIPE	size(mm) L1 Z1 Z2 82 145 48 97	Code 123P.3	Col G	Pk/bx 5/20
	110 212 43 110	123P.4	GB	-/ 10
L1 Z1				
Z2				







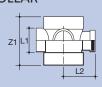
FOUR-WAY BOSS PIPE PUSH-FIT SOCKET/SPIGOT



2 boss horn	S.								NGLE ITEMS	
size(mm)	Z1	Z2	Z3	Z4	Z 5	C	ode	Col	Pk/bx	
₩ 110	44	40	56	55	59	1	20P.412.2	G	5/15	

TRIPLE BOSS COLLAR





size(mm)	L1	L2	Z1	Code	Col	Pk/bx
110/40	65	95	125	120P.4.15	GB	5/30

SOCKET PLUG





size(mm)	L	Code	Col	Pk/bx
		130.4 130.6	GBW G	5/50 5/35

UNIVERSAL SOIL MANIFOLD







For Pushfit waste connections

For connection of BS 5254/BS 5255 32mm and 40mm waste pipes at floor level. Incorporates 4 inlets to accept 32mm or 40mm waste pipes without need for adaptors. Use with Swivel Elbow or Swept Bend. Complete with 4 sealing gaskets, and 3 removable plugs.

For Solvent waste connections see page 10

size(mm)	L1	L2	L3	L4	Z1	Code	Col	Pk/bx
110	228	189	199	217	105	119P.4.15	G	-/ 5

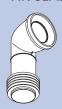
WC CONNECTOR STRAIGHT FIN SEAL

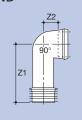




size(mm)	L	Z1	Z2	Code	Col	Pk/bx
110	125	10	56	129P.4.00	W	5/40

WC CONNECTOR 90° FIN SEAL BEND





size(mm) angle°	Z1	Z2	Code	Col	Pk/bx
110 90	230	60	129P.4.90	W	- /5

Full range of WC Connectors available, page 12–13.

For pipe brackets see page 7.







WASTE PIPE	Plain-ended. size(mm) L T (min)	COLOU AVAILAB Code 200.125.30 200.125.40 200.15.30 200.15.40 200.2.30 200.2.40	COL Pk/bx GW 5 GBWR 5 GBWR 5 GBWR 5 W 5 GBWR 5 GBWR 5 GBWR 5 GBWR 5 W 5 GBWR 5
SEAL RING ADAPTOR	To convert 50mm 207.2 spigot socket bends to expansion fitting. size(mm) A 50 65	Code 209.2	Col Pk/bx GW 5/250
STRAIGHT COUPLER DOUBLE SOCKET	size(mm) L Z	Code 210.125 210.15 210.2	Col Pk/bx GBWR 10/350 GBWR 5/240 GBW 10/140
UNION DOUBLE SOCKET	Threaded union for easy disconnection if required. size(mm) L Z 32 59 8 40 65 8 50 73 8	Code 211.125 211.15 211.2	Col Pk/bx G 5/200 G 5/130 G 5/90
EXPANSION COUPLER SEAL RING AND SOLVENT SOCKET	size(mm) L Z	Code 225.125 225.15 225.2	Col Pk/bx GW 10/240 GW 10/180 GW 5/100
SPIGOT/SOCKET COUPLER	To create a close-coupled expansion joint for all MuPVC fittings. size(mm) Z 32 27 40 30 50 35* *dimension includes expansion	Code 227.125 227.15 227.2	Col Pk/bx GW 5/250 GW 5/180 G 5/100



Terrain Waste Systems Terrain Waste Systems

CW/FDT DEND	041/0 4250 - 14550 - 1 - 1		COLOUR	CODES IN	N BOLD
SWEPT BEND DOUBLE SOCKET	91 ¹ / ₄ °, 135° and 165° as standard. For 91 ¹ / ₄ ° swept bend	'	AVAILABLE	AS SING	LE ITEMS
	size(mm) angle° Z1 Z2	Co	ode (Col	Pk/bx
72	32 91 ¹ / ₄ 34 34				20/220
	♥ 40 91 ¹ / ₄ 38 38	= 20)1.15.91	GBW R	5/140
	♥ 50 91 ¹ / ₄ 45 45	<u></u> ≥ 20	01.2.91	GBW	5/70
21	For 135° swept bend				
	size(mm) angle° Z1 Z2	Co	ode (Col	Pk/bx
Z2	₹ 32 135 10 10	<u></u>)1.125.135(GBW R	10/280
zí x	♥ 40 135 11 11 ♥ 50 135 14 14)1.15.135 ()1.2.135 (GBW R GBW	5/200 5/100
	For 165° swept bend	20	71.2.133	JDVV	3/100
	size(mm) angle° Z1 Z2	Co	ode (Col	Pk/bx
Z2	 32 165 5 5	<u></u>)1.125.165 (G	10/320
21	♥ 40 165 5 5 ♥ 50 165 6 6)1.15.165 ()1.2.165 (G G	5/220 5/250
	© 30 103 0 0	<u>~~</u> 20	71.2.165	J	5/250
SPIGOT/SOCKET BENDS	To change pipe direction in limited-space situations:				
	92 ¹ / ₂ ° and 150° as standard.				
Z2	size(mm) angle° Z1 Z2 Z2 (max) (min)	Co	ode (Col	Pk/bx
	₹ 32 92 ¹ / ₂ 19 92 46	<u></u>	7.125.92	G B W	5/180
	 ∮ 40 92½ 21 95 52 ∮ 50 92½ 29 102 64 			GBW G W	5/120 5/60
	♥ 32 135 8 30 −	<u></u>	7.125.135 V	Ν	5/300
	♥ 40 135 11 38 - ♥ 50 135 13 46 -)7.15.135 ()7.2.135 (GBW GW	5/180 5/100
	3 32 150 8 52 29		7.2.135 7.125.150 (GB	10/260
	∜ 40 150 9 49 33	<u></u>	7.15.150	G B	5/200
KNUCKLE BEND	size(mm) angle° Z1 Z2			GB Col	Pk/bx
KNUCKLE BEND DOUBLE SOCKET	size(mm) angle° Z1 Z2 32 91 ¹ / ₄ 19 19	Co	ode (
	size(mm) angle° Z1 Z2	Co	ode (Col GBWR	Pk/bx
	size(mm) angle° Z1 Z2 32 91 ¹ / ₄ 19 19	Co	ode (Col GBWR	Pk/bx 10/280
	size(mm) angle° Z1 Z2 32 91 ¹ / ₄ 19 19	Co	ode (Col GBWR	Pk/bx 10/280
	size(mm) angle° Z1 Z2 32 91 ¹ / ₄ 19 19	Co	ode (Col GBWR	Pk/bx 10/280
DOUBLE SOCKET	size(mm) angle° Z1 Z2 32 91 ¹ / ₄ 19 19	Co 20.	ode (02.125.91 (02.15.91 (Col GBWR	Pk/bx 10/280
DOUBLE SOCKET Z2 Z2	size(mm) angle° Z1 Z2	Co 20.	ode (2.125.91 (2.15.9	Col GBWR GBWR	Pk/bx 10/280 10/200 Pk/bx 5/105
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2 ③ 32 91¹/4 19 19 ③ 40 91¹/4 22 22 size(mm) angle° Z1 Z2 Z3 ③ 40 91¹/4 44 44 20 ⑤ 50 91¹/4 51 51 25	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col GBWR GBWR	Pk/bx 10/280 10/200 Pk/bx 5/105
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET 23 21 SWEPT TEE	size(mm) angle° Z1 Z2	Co Co 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET	size(mm) angle° Z1 Z2 32 911/4 19 19 40 911/4 22 22 size(mm) angle° Z1 Z2 Z3 40 911/4 44 44 20 50 911/4 51 51 25 50 135 13 71 71	Co 20 20 20 20	ode (2.125.91 (2.15.9	Col Col GBWR GBWR Col GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55
SWEPT CROSS ALL SOCKET SWEPT TEE ALL SOCKET	size(mm) angle° Z1 Z2 32 911/4 19 19 34 40 911/4 22 22 size(mm) angle° Z1 Z2 Z3 40 911/4 44 44 20 50 911/4 51 51 25 50 135 13 71 71 911/4° and 135° as standard. size(mm) angle° Z1 Z2 Z3 32 911/4 30 30 19	Co 20 20 20 Co 20 20 20 20	ode (22.125.91 (22.15.91 (22.15.91 (22.15.91 (22.15.91 (22.15.91 (22.135 (22.1	Col GBWR GBWR Col GW GW GW GG Col GBWR	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55 5/55 Pk/bx 5/120
SWEPT CROSS ALL SOCKET 23 21 SWEPT TEE	size(mm) angle° Z1 Z2 \$\frac{32}{2} 32	Co 200 200 200 200 200 200 200 200 200 20	ode (22.125.91 (22.15.91 (22.15.91 (22.15.91 (22.15.91 (22.135	Col GBWR GBWR GBWR GOI GW GW GG GBWR GBWR GBWR GBWR GBWR GBWR	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55 5/55 Pk/bx 5/120 5/90 5/45
SWEPT CROSS ALL SOCKET SWEPT TEE ALL SOCKET	size(mm) angle° Z1 Z2	Co 200 200 200 200 200 200 200 200 200 20	ode (2)2.125.91 (2)2.15.91 (2)2.15.91 (2)2.15.91 (2)2.135	Col GBWR GBWR GBWR GBW GW GW GS GBWR GBWR GBWR GBWR GBWR GBWR GBWR GBW GW GW GW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55 5/55 Pk/bx 5/120 5/90 5/45 5/120
SWEPT CROSS ALL SOCKET SWEPT TEE ALL SOCKET 23 21 23 21 23 21 21 23 21 21	size(mm) angle° Z1 Z2 \$\frac{32}{2} 32	Co 20 20 20 20 20 20 20 20 20 20 20 20 20	ode (22.125.91 (22.15.91 (22.15.91 (22.15.91 (22.15.91 (22.135	Col GBWR GBWR GBWR GOI GW GW GG GBWR GBWR GBWR GBWR GBWR GBWR	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55 5/55 Pk/bx 5/120 5/90 5/45
SWEPT CROSS ALL SOCKET SWEPT TEE ALL SOCKET	size(mm) angle° Z1 Z2 32 91¹/4 19 19 40 91¹/4 22 22 size(mm) angle° Z1 Z2 Z3 40 91¹/4 44 44 20 50 91¹/4 51 51 25 50 135 13 71 71 91¹/4° and 135° as standard. size(mm) angle° Z1 Z2 Z3 40 91¹/4 30 30 19 40 91¹/4 32 35 22 40 91¹/4 43 43 29 32 91¹/4 43 43 29 32 135 8 48 48 40 135 10 57 57	Co 20 20 20 20 20 20 20 20 20 20 20 20 20	ode (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.91 (2.125.135 (Col GBWR GBWR GBWR GBW GW GW GSW GBWR GBWR GBWR GBWR GBWR GBWR GBWR GBW	Pk/bx 10/280 10/200 Pk/bx 5/105 5/55 5/55 Pk/bx 5/120 5/90 5/45 5/120 5/80





LEVEL INVERT TAPER	To reduce socket of any standard fitting to accept a smaller size pipe. Larger end spigot and smaller end socket.	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
A	size(mm) A L Z centres	Code Col Pk/bx
	♥ 40/32 4 73 47 ♥ 50/32 10 98 73 ♥ 50/40 7 90 62	☐ 223.15.125 G 5/230 ☐ 223.2.125 GW 10/190 ☐ 223.2.15 G 10/160
SOCKET REDUCER	size(mm) A Z centres	Code Col Pk/bx
	 \$\pm\$ 40/32	224.15.125 GBWR 20/640 224.2.125 GBW 10/350 224.2.15 GBW 10/350
PIPE FIXING CLIP	size(mm) A B	Code Col Pk/bx
A B	32 33 54 40 37 60 50 43 76	☐ 240.125 GBWR 20/1000 ☐ 240.15 GBWR 20/800 ☐ 240.2 GBW 10/500
EXPANSION FITTING FIXING CLIP	To secure control thermal expansion at regular points along pipework.	
	size(mm) A 32 33	Code Col Pk/bx 242.125 GW 10/750
A	40 37 50 43	⊒ 242.15 W 10/500 ⊒ 242.2 GW 10/300
PIPE AND FITTING BRACKET	size(mm) A B	Code Col Pk/bx
(METAL)	32 57 44 40 60 48 50 75 53	☐ 243.125 Self 10/120 ☐ 243.15 Self 10/100 ☐ 243.2 Self 10/70
ACCESS PLUG	size(mm) L	Code Col Pk/bx
ACCESS PLOG		237.125 GBW 10/350 237.15 GBW 10/320 237.2 GBW 5/180
WEATHERING APRON	To provide weathertight cover over lead slate around	
WEATHERING AFRON	50mm waste pipe penetrating roof.	
B	size(mm) A B 50 76 38	Code Col Pk/bx ☐ 231.2 G 5/135







VENT COWL		COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
	size(mm) A	Code Col Pk/bx
	50 34	■ 250.2 GW 5/300
AUTOMATIC AIR ADMITTANCE VALVE	Allows air into waste system when negative pressure occurs. Helps prevent syphonage of traps.	
A	size(mm) A B L L1 C D	Code Col Pk/bx
	32/40/50 65 26 80 55 25 25	■ 253W W 5/70
L1		
TRAPPED FLOOR GULLY	Under-floor trap (e.g. for shower areas) with 3 sockets to accept 40mm waste pipe. Seal depth: 50mm. Cleaning access via removable baffle with integral gasket to maintain airtight seal.	
	size(mm) A B C D E F G H	Code Col Bx
	110/82 169 69 77 64 51 42 82 110 160/110 169 70 85 69 55 50 110 160	
FLOOR GULLY INLETS	Two-part fitting to be set in standard-tiled floor (e.g. in shower areas). Comprises of raising piece with 50mm square top, and snap-in cover.	
Z1 Z1	size(mm) A B Z1 Z2	Code Col Bx
Z2	110 PVC 50x150 110 14 48	Section Section Secti
В	110 SS 50x150 110 14 48	■ 283.6 Self 1/36
SEALED GULLY	size(mm)	Code Col Bx
RAISING PIECE	110	284.6 G W 1/36
SEALED GULLY	size(mm)	Code Col Bx
RAISING PIECE STAINLESS STEEL COVER	110	285.6 Self 1/36
11		

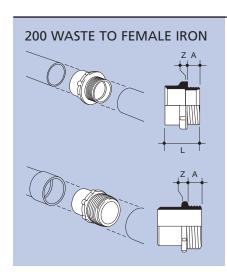






ADAPTOR TO UNDERGROUND DRAIN PIPE	Push-fit connection into pipes with nominal 100mm bore. External use only.	COLC AVAILA	OUR CODES IN BOLD ABLE AS SINGLE ITEMS	
Α	size(mm) A L	Code	Col Pk/bx	
	32/40/50 8 40 Note: As a Terrain Underground product different discount structure applies.	4DW200	B 5/60	
ADAPTOR TO METAL PIPE	Supplied with seal ring.			
+ A +	size(mm) A B Z	Code	Col Pk/bx	
Z	50 70 42 358	226.2	G 5/55	
CAULKING BUSH	For connecting MuPVC waste pipe to 50mm socket of other material. Solvent-weld to pipe.			
A A	size(mm) A B C D	Code	Col Pk/bx	
B B B B B B B B B B B B B B B B B B B	32/40/50 43 36 56 70	232	G 10/350	
REVERSE NUT ADAPTOR	For solvent-weld connection of MuPVC waste pipe (or			
Z A	waste fitting) to BSP male threaded fitting or pipe. size(mm) A L Z	Code	Col Pk/bx	
	\$32/32	218.125 218.15	W 10/300 W 10/250	
200 WASTE TO MALE IRON	For solvent-weld connection of MuPVC waste pipe or			
Z A	fitting to BSP threaded male pipe or fitting. Socket and threaded socket.			
	size(mm) A L Z	Code	Col Pk/bx	
	\$\frac{3}{2}\$ 23 51 3 \$\frac{4}{2}\$ 40/40 23 54 3 \$\frac{5}{2}\$ 50/50 23 57 3	212.125 212.15 212.2	G 10/270 G 10/220 G 5/140	
ZA	Spigot and threaded socket.			
	size(mm) A Z	Code	Col Pk/bx	
	♥ 32/32 23 3 ♥ 40/40 23 3 ♥ 50/50 23 3	☐ 216.125 ☐ 216.15 ☐ 216.2	G 5/400 G 5/320 G 5/200	



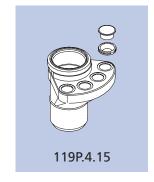


	ded fen	on of MuPVC waste pipe or nale pipe or fitting.		our codes Able as sin		
size(mm)	Α	L	Z	Code	Col	Pk/bx
₩ 32/32	19	48	3	213.125	G	10/320
₱ 40/40	19	51	3	213.15	GW	10/240
♥ 50/50	19	54	3	213.2	GW	5/140
Spigot and	threac	led soc	ket.			
size(mm)	Α	Z		Code	Col	Pk/bx
♥ 32/32	19	6		217.125	G	5/300
♥ 40/40	19	6		217.15	G	5/240
♥ 50/50	19	6		217.2	GW	5/160

Innovative Products

Universal Soil Manifold

- Assembled using mirror welding technology – providing a consistent, stronger and more durable weld
- The most compact four entry manifold available
- Terrain branded waste plugs, easily removable for installation flexibility



- Now available with solvent weld inlets
- See pages 10 and 18 for further details

New Strap-on Boss

- Detachable rear strap provides back to back connection of common or different diameters
- 32mm, 40mm and 50mm boss diameters
- Same diameter of stack opening for all boss sizes
- Increased contact area for greater installation security
- See page 17 for further details



Single Equal Branch - Variable Boss

- Unrivalled installation flexibility – branch and boss pipe incorporated in a single adjustable fitting
- Direct pipe connection (x2) for 50mm waste runs – no additional fitting required
- Joint design assures vertical alignment during installation and operation



- Anti-tamper proof joint means that major product parts can no longer be separated
- See page 4 for further details

New Pipe Marking Template

- Marking template for access doors and associated Terrain waste bosses
- With the aid of a spirit level it is a tool for measuring gradients of fall between 0.5, 1.0 and 2.5 degrees
- Can be used to mark angles of rotation 0, 15, 45, 90, 135 and 165 degrees



- Made from polypropylene, the template is tough, durable and will not be affected by solvent cement
- See page 31 for further details







WASTE PIPE	Plain-ended. size(mm) L T (min) 32 3m 1.8 40 3m 1.9 50 3m 2	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS Code Col Pk/bx 300.125.30 GBW 10 300.15.30 GBW 10 300.2.30 G 10
STRAIGHT COUPLER DOUBLE SOCKET	size(mm) L Z1 32 80 2 40 80 2 50 70 2	Code Col Pk/bx 310.125 GBW 10/350 310.15 GBW 10/300 310.2 G 10/200
SWEPT BEND DOUBLE SOCKET	91 ¹ / ₄ ° and 135° as standard. For 91 ¹ / ₄ ° swept bend size(mm) angle° Z1 32 91 ¹ / ₄ 55 40 91 ¹ / ₄ 55 50 91 ¹ / ₄ 65	Code Col Pk/bx 301.125.91 GBW 10/240 301.15.91 GBW 10/200 301.2.91 G 10/90
Z1 Z1	For 135° swept bend size(mm) angle° Z1 32 135 10 40 135 11 50 135 14	Code Col Pk/bx 301.125.135 GBW 10/300 301.15.135 GBW 10/280 301.2.135 G 10/100
KNUCKLE BEND 90° DOUBLE SOCKET	size(mm) angle° Z1 32 90 20 40 90 23 50 90 28	Code Col Pk/bx 302.125.90 GBW 10/160 302.15.90 GBW 10/220 302.2.90 G 10/100
SWIVEL ELBOW BEND 90° SINGLE SOCKET/SPIGOT	size(mm) angle° Z1 Z2 32 90 30 60 40 90 25 60	Code Col Pk/bx 307.125.90 GW 10/170 307.15.90 GW 10/110
SWEPT TEE 91 ¹ /4°	size(mm) angle° Z1 Z2 Z3 32 91½ 25 30 35 40 91¼ 30 33 40 50 91¼ 35 40 46	Code Col Pk/bx 304.125.91 GBW 10/160 304.15.91 GBW 10/120 304.2.91 G 10/70







SOCKET REDUCER	To reduce waste socket to accept smaller diameter waste pipe.	COLOUR CODES IN BOLD AVAILABLE AS SINGLE ITEMS
+Z1-+	size(mm) Z1	Code Col Pk/bx
	40/32 35 50/32 35	323.15.125 GBW 10/400 323.2.125 G 10/180
	50/40 35	323.2.15 G 10/150
PIPE AND FITTING CLIP	size(mm) L1 C1 C2	Code Col Pk/bx
C2 L1	32 70 34 54 40 77 37 61	340.125 GBW 20/800 340.15 GBW 20/800
	size(mm) L1 C1 C2	Code Col Pk/bx
C1	50 60 51 22	343.2 G 10/600
ACCESS PLUG	size(mm) L1 Z1	Code Col Pk/bx
→_L1—	32 55 17 40 49 17	337.125 GBW 10/500 337.15 GBW 10/500
Z1	50 59 10	337.15 GBW 10/200 337.2 G 10/200
TANK CONNECTOR	For connecting push-fit polypropylene pipe to water tank. Supplied with 2 sealing washers.	
	size(mm) L1 Z1	Code Col Pk/bx
+L1-H-Z1	32 24 7 40 24 7 50 25 7	311.125 GW 10/300 311.15 GW 10/300 311.2 G 10/200







OVERFLOW PIPE	Plain-ended. size(mm) L T (min) 19 4m 1.1 £1.44	Code	CODES IN BOLD : AS SINGLE ITEMS Col Pk/bx W 20
STRAIGHT COUPLER DOUBLE SOCKET	size(mm) L Z 19 40 2		Col Pk/bx W 50/1000
BEND DOUBLE SOCKET	91 ¹ / ₄ ° and 135° as standard. size(mm) angle° Z1 Z2 19 91 ¹ / ₄ 12 12 19 135 6 6		Col Pk/bx W 50/750 W 50/1100
BRANCH z3 z1 z2 z2	91 ¹ / ₄ ° as standard. size(mm) angle° Z1 Z2 Z3 19 91 ¹ / ₄ 13 13 13		Col Pk/bx // 10/500
SOCKET REDUCER	size(mm) A Z centre 19/32 5 5		Col Pk/bx // 10/1000
PIPE FIXING CLIP (PLASTIC)	size(mm) A 19 20		Col Pk/bx N 50/2500

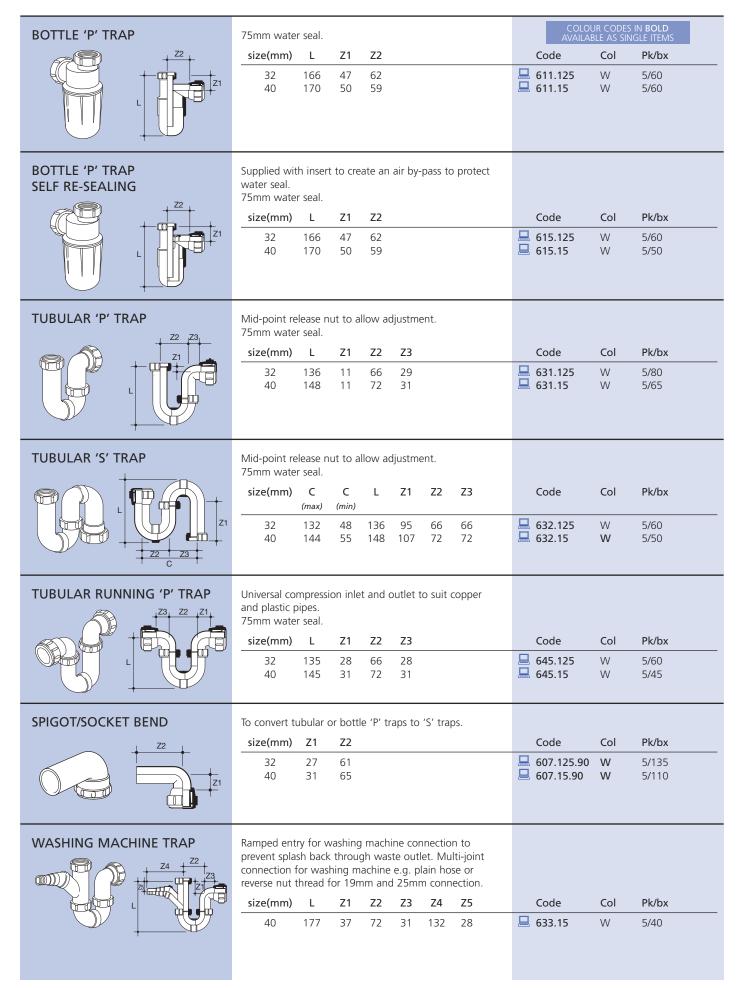




STRAIGHT TANK CONNECTOR	To connect cistern/tank to overflow pipe.	COLO	OUR CODES IN BOLD ABLE AS SINGLE ITEMS
THAIGHT TANK CONNECTOR	size(mm) A L	Code	Col Pk/bx
A L	19 48 69	511.75	W 10/250
BENT TANK CONNECTOR 90°	size(mm) angle° A Z1 Z2	Code	Col Pk/bx
Z1 Z2 A	19 90 48 13 32	502.75.90	W 10/200
BSP ADAPTOR SOLVENT-WELD SOCKET AND ³ /4" BSP SOCKET	To connect PVC-u overflow pipe to threaded components. Solvent-weld socket to receive overflow pipe. Threaded socket to receive ³ / ₄ " BSP male threaded pipe end.		
	size(mm) A L	Code	Col Pk/bx
	19 14 39	512.75	W 10/750
REVERSE NUT CONNECTOR	To connect PVC-u overflow pipe to threaded components. Threaded loose nut to receive ³ /4" BSP male threaded pipe end.		
	size(mm) A L Z1	Code	Col Pk/bx
A	19 35 54 25	519.75	W 20/300
TUNDISH	size(mm) L	Code	Col Pk/bx
	19 117	590.75	W 5/100

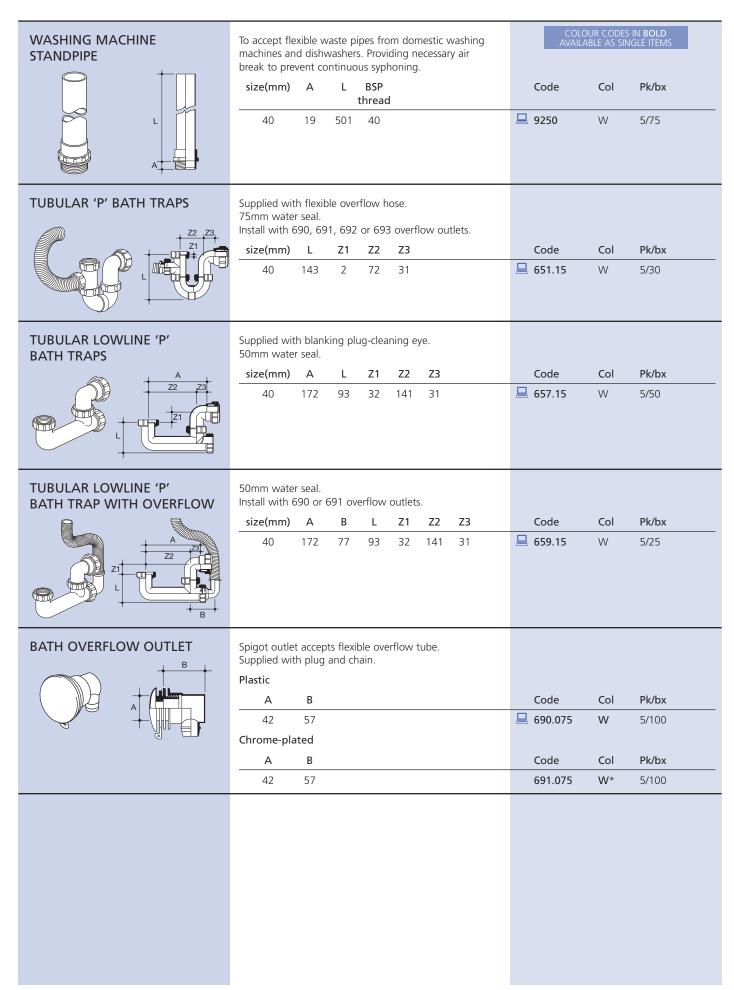


Terrain Traps















INTUMESCENT PIPE COLLAR	An intumescent sleeve is designed to prevent the spread of fire and smoke where PVC-u pipes penetrate a fire rated compartment wall or floor. size(mm) weight(g) fire rating 50 472 2 hrs 82 778 2 hrs	Code 1725.2 1725.3	Col S/Steel S/Steel	Pk/bx 5/50 5/50
	♥ 110 1016 2 hrs ♥ 160 2534 2 hrs	1725.4 1725.6	S/Steel S/Steel	
FIXING BOLTS	Heavy duty expanding fixing bolts – pack of 4.	Code	Col	Вх
		1726		1/100
TOGGLE BOLT	To clamp 112 and 115 Boss Connectors while solvent-welding.			
		Code	Col	Pk/bx
		9115	Self	1/50
PACKING PIECE	For use with 140 and 142 Pipe Brackets and 191 Intermediate Support Brackets.			
	size(mm)	Code	Col	Pk/bx
	82 110 160	9104.3 9104.4 9104.6	G GB G	1 10/200 1/100
PIPE MARKING TEMPLATE	Marking guide for Terrain Soil Systems, access and boss connection			
	size(mm)	Code	Col	Pk/bx
	110	9105.500	Blue	1/–







WC PAN SEAL (SOIL)	Material: EPDM Replacement seal for pan outlet diameter 951/4–121mm.			S IN BOLD NGLE ITEMS
	size(mm)	Code	Col	Pk/bx
	110	9124	В	1/100
SPARE SEAL RINGS (SOIL)	Material: EPDM Suitable for: - soil system expansion sockets and soil pipe - use with 126 Adaptors to Cast Iron - soil fittings (as listed).			
	size(mm) For fittings	Code	Col	Pk/bx
	110 Push Fit Soil (P) range 160 Push Fit Soil (P) range 82 109/111/111.S/126/132 110 103/105/109/111/111.S/126/132/137 Material: EPDM Allows soil fittings to accept metric copper pipe to BS	9116.4 9116.6 9120 9119.B	B B B	1 1 1
	2871.			
	size(mm)	Code	Col	Pk/bx
	110	9149	Red	1
SPARE SEAL RING (WASTE)	Suitable for: – 200 Waste System Fittings to accept pipe manufactured to BS 5255 and BS 5254. Acceptable for: – copper pipe to BS 659 and BS 2781.			
	size(mm)	Code	Col	Pk/bx
	32 40 50	9132.125 9132.15 9132.2	B B B	1 1 1
SEALING INSERT (SPARE)	<i>Material:</i> EPDM.			
, ,	size(mm)	Code	Col	Pk/bx
	40	9113	В	1
MANIFOLD PLUG (SPARE)	<i>Material:</i> Polypropylene.			
,	size(mm)	Code	Col	Pk/bx
	40	9114	G	1
CLEANING FLUID	Material: Acetone. For cleaning PVC-u pipe and fittings before applying Liquid Weld. Screw top cans. size(ml) 125 250	Code 9101.125 9101.250	Col	Pk/bx 12/24 12/24
		9101.230		12/24
LUBRICANT	Material: Silicone grease Soluble lubricant. For lubricating seal rings on expansion fittings. size(ml)	Code	Col	Pk/bx
	50 Tube (silicone) 250 Tub (silicone) 500 Tub (soluble)	9136.50 9136.250 9136.500		10/150 10/40 10/20
LIQUID WELD	For solvent jointing of PVC-u pipes and fittings cap incorporates integral brush. size(ml)	Code	Col	Pk/bx
	125 250 500	9100.125 9100.250 9100.500	COI	12/24 12/24 12





Building Regulations Requirements

All sanitary pipework and drainage installations must satisfy the relevant requirements of Part H1 of the approved documents to the England, Wales and Northern Ireland Building Regulations 1990 and the Building Standards (Scotland) amendment regulations 1982.

Installations in accordance with BS EN 12056:2 Code of practice for sanitary

pipework will also meet Building Regulations requirements.

Ventilation

The discharge stack must be ventilated in order to prevent pressure building up within the system and drawing the water seals in the traps.

Separate ventilation of branch pipes is required only if the length and slope of the branch exceeds the following dimensions:

Maximum length: (32mm) 1.7 metres (40mm) 3 metres (50mm) 4 metres Slope: 18-90mm per metre

In such cases, the branch pipe should be ventilated by a branch ventilating pipe or an anti-syphon trap should be fitted.

The Automatic Air Admittance Valve reduces the number of stack ventilating pipes required to penetrate the roof in multi-installations, without affecting performance of the drainage system.

Thermal expansion

Within a solvent-weld system it is important to make adequate allowance for thermal movement. This is most easily achieved by fitting an expansion ring seal joint between two fixed solvent-weld joints.

The expansion gap should be created by pushing the spigot fully into the ring seal socket, and marking the position at the socket face. Then withdraw the spigot by 10mm.

Check subsequently to ensure that the expansion gap is not lost during further installation work.

Branch connections

The distance between the centreline of the lowest branch connection to the discharge stack and the invert of the bend at the foot of the stack should be in accordance with the following:

≤ 3 storeys	450mm min.
≤ 5 storeys	750mm min.
5 storeys +	Ground floor connections should discharge direct to drain or into their own stack
20 storeys +	Ground and first floor connections should discharge into their own stack

A branch pipe should not discharge into a stack in a way which could cause crossflow into any other branch pipe.

Working temperatures

Terrain Soil and Waste systems may be used to convey liquids with a maximum temperature of 76°C when subjected to continuous flow. Intermittent discharges of up to 100°C may occur provided they are of less than 2 minutes duration.

Chemical discharges

Terrain Soil and Waste systems are generally resistant to most commonly used acids and those that may be discharged to the public sewer system. The rubber seals, however, are less resistant and it is advised that before any chemicals are conveyed through the systems, checks are made to establish their effects on the product. Refer to BS CP 312 Part 1 Code of Practice for Plastic Pipework for further information.

Access

Sufficient and suitable access must be provided to enable all pipework to be tested and maintained effectively. Access covers, plugs or caps should be installed in positions to facilitate use of testing equipment and removal of blockages.

Fire Spread

In large commercial or housing developments, compartmentation may be required by the Building Regulations 1991 (Part B 3(2) Schedule 1). In such cases, any penetrations by sanitary pipework must be suitably fire stopped.

Suitable measures include the containment of pipes from floor to ceiling in a fire resistant enclosure (with appropriate fire rating).

In addition, the Terrain Firebrake Intumescent Sleeve has been designed to meet the highest fire stopping requirements.

Pipe support

Pipes must be adequately supported when installed vertically or horizontally (to falls).

Fabrication Service

Fabricated specials

Our Fabrication Service is able to help you by producing Specials to overcome those tricky problems that arise in the design process and on site.



Our experienced fabricators are able to satisfy the requirements of any project.

Standard specials

- These are produced by making slight modifications to existing Terrain products to suit frequently occurring design problems e.g. special gutter angles for bay windows, conservatories etc.
- These products tend to be required regularly, but in small quantities.
- Delivery lead time is usually the same as for standard catalogue items.
- Standard Specials have an F prefix added to the standard number and can be found in our price list.



Multi entry branch designed to suit customer's unique requirements.



Gutter offset unit bespoke to fit individual building dimensions.

Custom specials

- These are designed and fabricated specifically to meet the unique design requirements created by special architectural features. They can be made not only on a one-off or small batch basis, but also in their hundreds, subject to the demands of your particular project.
- They can be produced to your precise specification in virtually any size or shape.
- Custom Specials provide solutions to otherwise unsolvable design problems.
- Delivery time depends upon the complexity of the design and number required.
- Examples of situations in which Custom Specials have provided solutions include a PVC drain outlet filter designed to catch tiny pieces of gold fillings positioned beneath the operating area in a dental surgery; and specially designed silt traps to deal with drainage needs at football grounds.

Pre-fabricated stacks

With increased labour shortages, the more aspects of the construction process that can be dealt with in the factory rather than on-site, the greater the benefits for everyone.

Solving problems at the design and manufacturing stage ensures 'right first time' quality, increased predictability of construction time and cost, and improvements to both site productivity and health and safety.

Prefab Stacks consist of soil and waste pipes and fittings preassembled at the factory to predetermined lengths to provide a modular soil and vent stack.



Raked angle gutter outlet with builtin overshoot guard.



Double branches can be made to any size and angle.

These offer a number of benefits:

- Time and labour costs on site are reduced by minimising the joints to be made.
- Highly efficient for commercial, leisure and housing projects where identical plumbing arrangements are repeated a number of times.
- Can be quickly installed, reducing the need to relocate residents, making them ideal for refurbishment work.

Taking a typical house as an example, stacks are pre-welded and supplied in four sections:

- Drain socket to kitchen connection.
- Intermediate section including bathroom connection.
- Top section through roof.
- Connection to W.C.

They are available in four colours: grey, white, black and rustic brown. Delivery time is dependent on quantities required.

You provide us with architect drawings and, ideally the sanitaryware schedule, and we do the rest.

Fabrication Service



TERRAIN FABRICATION SERVICE

Specialists in fabrication

The Terrain Fabrication team works closely with our Technical Services Department, employing the latest design and manufacturing technologies.

Together, they produce high quality Pre-fabricated Stacks and Specials, either by making modifications to existing products from the Terrain range, or by conceiving components from scratch to deal with particularly awkward problems.

Where fittings are designed specially, CAD technology is used to provide accurate drawings, along with indications of all relevant dimensions.

Our fabrication team provides services in two key areas.

Specials

There are occasions on which even the most comprehensive standard product system won't meet up to the demands of a particularly complex design or installation.

And at times like this, the Terrain Fabrication Service is uniquely placed to help you.

Pre-fabrication

Shortage of skilled labour is just one reason for the growth of pre-fabrication within construction. Moving significant elements of the process from site to factory provides improvements in quality, cost and time predictability, productivity and safety.

With unrivalled expertise in PVC and HDPE fabrication systems, our Fabrication Service has been helping specifiers and contractors overcome problems, both at the design stage and on site, for over 30 years.

Three easy steps for our Special Fabrication Service

It couldn't be simpler to order Specials or have a Pre-fabricated Stack manufactured for you.

 Send a dimensioned sketch and specification by email, fax or post to our Technical Services Department.



- We will then advise you on design possibilities and send you back CAD diagrams, if necessary, complete with a part number and price for your approval.
 - If the special is being incorporated into the design stage of a drainage layout, be sure to include the unique part number with any plans to be passed to the contractor.
- 3. You place the order through your local merchant, stating the unique product number and price.

Whether at the design stage or on site, should you come up against a problem related to plumbing and drainage, look no further than the Terrain Special Fabrication Service.





NB Under no

circumstances should pipe of

diameter be

connected to

the direction

a larger

pipe of a

smaller diameter in

of flow.



Table A: Discharge units (DU) Values

Appliance	System III DU I/s
Wash basin, bidet	0.3
Shower without plug	0.4
Shower with plug	1.3
Single urinal with cistern	0.4
Urinal with flushing valve	_
Slab urinal	0.2*
Bath	1.3
Kitchen sink	1.3
Dishwasher (household)	0.2
Washing machine up to 6 kg	0.6
Washing machine up to 12 kg	1.2
WC with 4.0 L cistern	**
WC with 6.0 L cistern	1.2 to 1.7***
WC with 7.5 L cistern	1.4 to 1.8***
WC with 9.0 L cistern	1.6 to 2.0***
Floor gully DN 50	_
Floor gully DN 70	_
Floor gully DN 100	_

Example

10 storey building with

4 WC 2 WHB 2 Baths 2 Showers 2 Sinks 2 W/MC $4 \times 1.5 = 6.0$

Domestic Building Use K = 0.5

 $0.5\sqrt{138} = 5.87 \text{ l/s}$

See Table C and D for capacities of pipes.

On each floor $2 \times 0.3 = 0.6$ $2 \times 1.3 = 2.6$ $2 \times 0.4 = 0.8$ $2 \times 1.3 = 2.6$ $2 \times 0.6 = 1.2$ 13.8 x 10 = 138 DU

Per person.

** Not permitted.

***Depending upon type (valid for WC's with siphon flush cistern only).

Not used or no data.

Table B: Typical frequency factors (K)

Usage of appliances	K
Intermittent use, e.g. in dwelling, guesthouse, office	0.5
Frequent use, e.g. in hospital, school, restaurant, hotel	0.7
Congested use, e.g. in toilets and/or showers open to public	1.0
Special use, e.g. laboratory	1.2

Frequency factor (K)

Typical frequency factors associated with different usage of appliances Table B.

Calculation of flowrate Waste water flowrate (Q_{ww})

 Q_{ww} is the expected flowrate of waste water in a part or in the whole drainage system where only domestic sanitary appliances are connected to the system

$$Q_{\text{ww}} = K\sqrt{\Sigma}DU$$

where:

 Q_{ww} = Waste water flowrate (I/s)

= Frequency factor $\Sigma DU = Sum of discharge$ units.



Table C: Stack with only Primary Vent

Stack and stack vent	System I, II, III, IV Q _{max} (L/s)			
DN	Square #entries	Swept entries		
60	0.5	0.7		
70	1.5	2.0		
80*	2.0	2.6		
90	2.7	3.5		
100**	4.0	5.2		
125	5.8	7.6		
150	9.5	12.4		
200	16.0	21.0		

Minimum size where WC's are connected in system II.

Table D: Stack with Secondary Venting

Stack and stack vent	Secondary vent	System I, II, III, IV Q _{max} (L/s)			
DN	DN	Square #entries	Swept entries		
60	50	0.7	0.9		
70	50	2.0	2.6		
80*	50	2.6	3.4		
90	50	3.5	4.6		
100**	50	5.6	7.3		
125	70	7.6	10.0		
150	80	12.4	18.3		
200	100	21.0 27.3			

Minimum size where WC's are connected in system II.

#Equal branch junctions that are more than 45°, or has a centre line radius less than the internal pipe diameter.

For branch pipe sizing based on System III the following sizing charts should be used.

Limitations for unventilated branch discharge pipes, system III Discorded Baiss to the Base I would be Discorded

Appliance	Diameter	Min. trap seal depth mm	Max length (L) of pipe from trap outlet to stack m	Pipe gradient	Max. number of bends	Max. drop (<i>H</i>)
Washbasin, bidet (30mm diameter trap)	30	75	1.7	2.21)	0	0
Washbasin, bidet (30mm diameter trap)	30	75	1.1	4.41)	0	0
Washbasin, bidet (30mm diameter trap)	30	75	0.7	8.7 ¹⁾	0	0
Washbasin, bidet (30mm diameter trap)	40	75	3.0	1.8 to 4.4	2	0
Shower, bath	40	50	No Limit ²⁾	1.8 to 9.0	No Limit	1.5
Bowl urinal	40	75	3.0 ³⁾	1.8 to 9.0	No Limit ⁴⁾	1.5
Trough urinal	50	75	3.0 ³⁾	1.8 to 9.0	No Limit ⁴⁾	1.5
Slab urinal ³⁾	60	50	3.0 ³⁾	1.8 to 9.0	No Limit ⁴⁾	1.5
Kitchen sink (40mm diameter trap)	40	75	No Limit ²⁾	1.8 to 9.0	No Limit	1.5
Household dishwasher or washing machine	40	75	3.0	1.8 to 4.4	No Limit	1.5
WC with outlet up to 80mm ⁶⁾	75	50	No Limit	1.8 Min.	No Limit ⁴⁾	1.5
WC with outlet greater than 80mm ⁶⁾	100	50	No Limit	1.8 Min.	No Limit ⁴⁾	1.5
Food waste disposal ⁷⁾	40 Min.	75 ⁸⁾	3.03)	13.5 Min.	No Limit ⁴⁾	1.5
Sanitary towel disposal unit	40 Min.	758)	3.03)	5.4 Min.	No Limit ⁴⁾	1.5
Floor drain	50	50	No Limit ³⁾	1.8 Min.	No Limit	1.5
Floor drain	70	50	No Limit ³⁾	1.8 Min.	No Limit	1.5
Floor drain	100	50	No Limit ³⁾	1.8 Min.	No Limit	1.5
4 basins	50	75	4.0	1.8 to 4.4	0	0
Bowl urinals ³⁾	50	75	No Limit ³⁾	1.8 to 1.9	No Limit ⁴⁾	1.5
Maximum of 8 WC's ⁶⁾	100	50	15.0	0.9 to 9.0	2	1.5
Up to 5 spray tap basins ⁹⁾	30 Max.	50	4.5 ³⁾	1.8 to 4.4	No Limit ⁴⁾	0

- Steeper gradient permitted if pipe is less than maximum permitted length. If length is greater than 3m noisy discharge may result with an increased risk of blockage. Should be as short as possible to limit problems with deposition. Sharp throated bends should be avoided. For slab urinal for up to 7 persons. Longer slabs to have more than one outlet.
- 2) If length is greated and is short as possible to limit problems with deposition of Sharp throated bends should be avoided.

 5) For slab urinal for up to 7 persons. Longer slabs to have more (5) Swept-entry branches serving WC's.

 7) Includes small potato-peeling machines.

 8) Tubular not bottle or resealing traps.

 9) Spray tap basins shall have flush-grated wastes without plugs.

Ventilated discharge branches

Sizes and limitations upon the use of ventilated discharge branches are given in the tables above. Limitations given in the second table are simplifications, for further information see national and local regulations and practice.

Limitations for ventilated branch discharge pipes, system III

Appliance		Min. trap seal depth	(L) of pipe from trap outlet to stack	Pipe gradient	Max. number of bends	Max. drop (<i>H</i>)
	DN	mm	m			m
Washbasin, bidet (30mm diameter trap)	30	75	3.0	1.8 Min.	2	3.0
Washbasin, bidet (30mm diameter trap)	40	75	3.0	1.8 Min.	No Limit	3.0
Shower, bath	40	50	No Limit ²⁾	1.8 Min.	No Limit	No Limit
Bowl urinal	40	75	3.0 ³⁾	1.8 Min.	No Limit ⁴⁾	3.0
Trough urinal	50	75	3.0 ³⁾	1.8 Min.	No Limit ⁴⁾	3.0
Slab urinal ³⁾	60	50	3.0 ³⁾	1.8 Min.	No Limit ⁴⁾	3.0
Kitchen sink (40mm diameter trap)	40	75	No Limit ²⁾	1.8 Min.	No Limit	No Limit
Household dishwasher or washing machine	40	75	No Limit ³⁾	1.8 Min.	No Limit	No Limit
WC with outlet up to 80mm ^{6) & 14)}	75	50	No Limit	1.8 Min.	No Limit ⁴⁾	1.5
WC with outlet greater than 80mm ^{6) & 14)}	100	50	No Limit	1.8 Min.	No Limit ⁴⁾	1.5
Food waste disposal ⁷⁾	40 Min.	75 ⁸⁾	3.0 ³⁾	13.5 Min.	No Limit ⁴⁾	3.0
Sanitary towel disposal unit	40 Min.	75 ⁸⁾	3.03)	5.4 Min.	No Limit ⁴⁾	3.0
Bath drain, Floor drain	50	50	No Limit ³⁾	1.8 Min.	No Limit	No Limit
Floor drain	70	50	No Limit ³⁾	1.8 Min.	No Limit	No Limit
Floor drain	100	50	No Limit ³⁾	1.8 Min.	No Limit	No Limit
5 basins ⁹⁾	50	75	7.0	1.8 to 4.4	2)	0
10 basins ^{9) & 10)}	50	75	10.0	1.8 to 4.4	No Limit	0
Bowl urinals ^{9) & 11)}	50	70	No Limit ³⁾	1.8 Min.	No Limit ⁴⁾	No Limit
More than 8 WC's ⁶⁾	100	50	No Limit	0.9 Min.	No Limit	No Limit
Up to 5 spray tap basins ¹²⁾	30 Max.	50	No Limit ³⁾	1.8 to 4.4	No Limit ⁴⁾	0

- For maximum distances from trap to vent (see Figure 8 of BS EN 1205-2:2000)
- If length is greater than 3m noisy discharge may result with an increased risk of blockage. Should be as short as possible to limit problems with deposition. Sharp throated bends should be avoided.
- For slab urinal for up to 7 persons. Longer slabs to have more than one outlet. Swept-entry branches serving WC's. Includes small potato-peeling machines.

- 7) Tubular not bottle or resealing traps. 9) See Figure 9 of BS EN 12056-2:2000). 10) Every basin shall be individually ventilated.
- Any number.

- 11) Any number.
 12) Spray tap basins shall have flush-grated wastes without plugs.
 13) The size of ventilating pipes to branches from appliances can be DN 25 but, if they are longer than 15m or contain more than five bends, a DN 30 pipe shall be used.
 14) If the connection of the ventilating pipe is liable to blockage due to repeated splashing or submergence, it should be DN 50, up to 50mm above the spill-over of the appliance.

Minimum size where WC's are connected in system I, III,

Minimum size where WC's are connected in system I,

Socket Dimensions

100 SOIL SYSTEM - PVC-u (SOLVENT-WELDED)

82, 110 and 160mm pipe and fittings (Fig. 1)

Α	В	C	T1	T2
			(min)	(min)
82	95	51	3.2	3.2
110	122	51	3.2	3.2
160	175	76	3.3	3.5

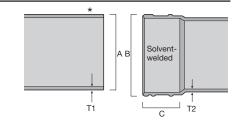
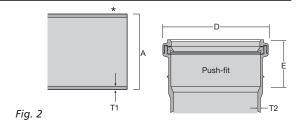


Fig. 1

100P SOIL SYSTEM - PVC-u (PUSH-FIT)

82, 110 and 160mm pipe and fittings (Fig. 2)

A(Fig. 2)	D	E	T2
82	100	50	3.2
110	132	58	3.4
160	189	70	4.1



200 WASTE SYSTEM - MuPVC (SOLVENT-WELDED)

32, 40 and 50mm pipe and fittings (Fig. 3)

Nom.	Α	В	C	D	E	T1	T2
						(min)	(min)
32mm	36	42	24	53	44	1.8	1.8
40mm	43	49	27	60	44	1.9	1.9
50mm	56	62	30	75	44	2.0	2.0

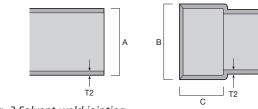


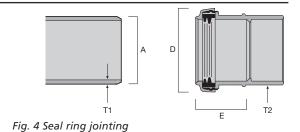
Fig. 3 Solvent-weld jointing

Fig. 5

300 WASTE SYSTEM - POLYPROPYLENE (PUSH-FIT)

32, 40 and 50mm pipe and fittings (Fig. 4)

Nom.	Α	D	Е	T2 T1
32mm	35	41	20	1.8
40mm	41	47	23	1.9
50mm	54	61	29	2.0

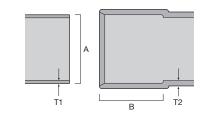


500 OVERFLOW SYSTEM

For cold, non-pressure water. Sockets are for solvent-weld jointing

19mm pipe and fittings (Fig. 5)

Α	В	T1	T2
		(min)	(min)
21	19	1.1	2.0



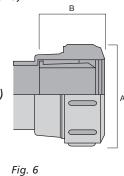
600 TRAPS SYSTEM

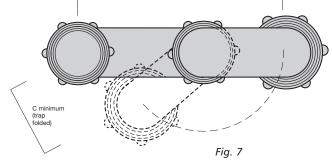
32, 40 and 50mm sockets (Fig. 6)

size	Α	В
		(min)
32mm	55	42
40mm	65	49

Tubular 'S' traps limits (Fig. 7) C maximum C minimum (trap folded)

Part no.	C	C
	(max)	(min)
632.125	136	50
632.15	150	60





All dimensions in mm unless otherwise stated.



Numerical Index

Code	Colour	Page
100	-Solvent	
100	Joivent	
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100.4.40	GBWR	2
100.6.30	G	2
100.6.40	G	2
101.3.92 101.3.135	GB W GB W	2 2
101.3.135	GBVV	3
101.4.92	GBWR	2
101.4.104	G	2
101.4.112	GB	2
101.4.135 101.6.92	GBW R G	2
101.6.92	G	2
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103.4.92	GBW	6
104.3.92	GBW	3
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104.6.135	G	3
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104.412.92	G	4
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107.4.135	GBW	3
107.6.135	G	3
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109.4	GBW R G	2
110.3	GBW	2
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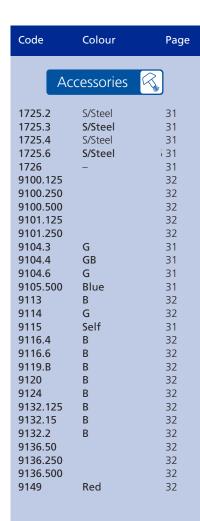
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Note: Products marked with * are part of the Terrain Underground range and a different discount structure therefore applies.

Materials

100 and 100P Terrain Soil System PVC-u

200 Terrain Waste System MuPVC

300 Terrain Waste System Polypropylene

500 Terrain Overflow System PVC-u

600 Terrain Traps Polypropylene

Quality assurance

Terrain is accredited to BS EN ISO 9001:2000 Quality Management Systems.

Certifications

The Terrain Automatic Air Admittance Valve is covered by British Board of Agrément Certificate 97/3421.

Standards compliance

Terrain systems comply with the appropriate British and European Standard and, where applicable, bear the Kitemark:

BS 4514:2001. PVC-u Soil Systems, 82, 110 and 160mm soil pipes and fittings (partially replaced with BS EN 1329-1:2000)

BS 4514 is an Internal Claim only. Products migrated from BS 4514 to the new BS EN 1329 standard still comply fully to BS 4514 but can only be licensed to BS EN 1329

BS 5254:1976. Polypropylene waste systems, 32, 40 and 50mm waste pipe and fitting

BS 5255:1989. MuPVC waste systems 32, 40 and 50mm waste pipes and fittings (partially replaced with BS EN 1329-1:2000)

BS 6209. Solvent Cement: 125, 250 and 500ml tins.

Terrain systems also comply with many of the requirements of DIN and ISO.

Availability

For details of local stockists, please contact Sales Support on 01622 717811.

Further information and assistance

Terrain products are backed by a comprehensive technical advisory service, available to provide advice and design guidance on all aspects of above and below ground drainage.

Technical services include:

- Soil and waste schematics and applicable details.
- Specification, product scheduling and estimating.
- CAD drawings, including products and application details on disk.

Many products are also available in CAD form for ready incorporation into design drawings (Products marked in the listings). To obtain a disk or CD Rom in the appropriate format, simply contact Technical Services.

- On site advice and problem solving.
- Prefabrication and fabrication design service.

For prompt assistance, please contact the Terrain Technical Services Department:

Tel: 01622 717811 Fax: 01622 791049

Tel: 01509 615100 Fax: 08452 760076



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