



PVCu Soil and Waste Systems

Marley Plumbing & Drainage offer a comprehensive range of soil and waste systems. Available with a variety of jointing methods, Marley products are manufactured to UK and European standards and are designed for use on commercial and residential projects.

PVCu soil & waste systems are available with push-fit or solvent weld joints, offering a choice of installation methods.

Product specification information

This guide contains design and installation information for Marley PVCu soil & waste drainage systems. All documentation can be downloaded from marleypd.co.uk

ABS = Acrylonitrile butadiene styrene PVCu = Poly vinyl chloride un-plasticised

PP = Polypropylene











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Marley Soil & Waste Systems

MARLEY Plumbing & Drainage Solutions

PVCu soil and waste systems

The PVCu soil system is available in 82, 110 and 160mm push-fit and solvent weld options incorporating socketed and plain ended pipe.

110 and 160mm pipe support components have been designed specifically to support horizontal or vertical suspended PVCu pipework.

Pipes and fittings are also suitable for use as internal and external rainwater pipes to drain flat roofs and metal gutter systems on commercial and industrial buildings.



Waste ranges

	J			√¶ Mı	ıltikwik ^{* *}
Solven	t waste	Push-fit waste	Overflow	Compression waste	Traps
PVCu	ABS	Polypropylene	PVCu	Polypropylene	Polypropylene
Suitable for	Lightweight and	For internal use.	A complete	Multi-fit	A range of traps,
internal and	cost effective	ideally suited to	range of	compression	which enable
external	for internal	fast installation.	pipework	socket, for	quick & easy
applications.	installation.	Cost effective solution where	and fittings for overflow	internal use.	installation to
	Easy to cut joint and install.	systems are	and boiler	Easy installation to similar sized	any new or existing plastic
	,	being installed	condensate	new or existing	or copper
		or modified.	applications.	plastic and copper pipework.	pipework.
Available in	Available in	Available in	Available in	Available in	Available in
32, 40 and 50 mm	32, 40 and 50 mm	32, 40 mm	21.5 mm	32, 40 mm	32, 40 and 50 mm
White & Black	White, Black & Grey	White, Black & Grey	White	White & Chrome	White & Chrome

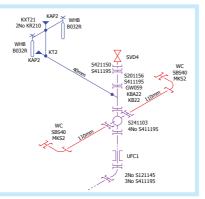
^{*} For information on Multikwik compression waste and traps visit marleypd.co.uk.

ABS and polypropylene waste pipes and fittings are designed for internal use and should not be fitted externally as they will be subject to ultraviolet light degradation. If fitted externally it is recommended that they are protected by the application of a suitable paint or are boxed in.

Technical advisory service

Marley Plumbing & Drainage provide technical support to all those involved with the specification and installation of their products. This enables a specialist team to give detailed advice on the best way of utilising the extensive range of products and systems manufactured by the company for building services.

Technical Hotline: 01622 852695



HDPE soil

The HDPE soil range is certified to BS EN 1519: 2000 (licence number KM 545820) An extension of the Marley soil & waste portfolio, the HDPE range offers an alternative solution to cast iron.

It is particularly suited for commercial applications or where a product with high impact or abrasion resistance is required, such as hospitals, hotels, schools, as well as residential buildings.





Key fitting: Akavent Aerator

The need for secondary venting in high-rise buildings can be eliminated with the Akavent aerator. An Akavent aerator fitting breaks the discharge fall on each floor and as a consequence the secondary vent pipe is not required as the pressure difference stays well within the limit of 3 mbar.

The unique shape of the fitting increases the capacity of the stack allowing the soil and waste flow from the higher floors to smoothly converge with the flow on the lower floor.

Acoustic soil

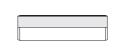
An acoustic soil and waste range with a layered pipe providing quick, hygienic removal of sanitary waste water. The noise generated by the flow of water is dramatically reduced – making it perfect for multi-occupancy apartment blocks and high specification developments.



Solvent waste – PVCu

PIPE



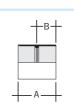


Size mm	Code	Length	Colour	Qty
32	KP104	4m	WB %₹	7 10
40	KP204	4m	WB ₽€	7 10
50	KP304	4m	WB ₽	7 5

Double spigot

STRAIGHT COUPLINGS





Size mm	Code	Α	В	Colour	Qty
32	KSC1	46 2	20	W B	₽ \$ 60
40	KSC2	53 2	24	W B	₽₩ 30
50	KSC3	66 2	28	W B	₽ ♥ 30





Size mm	Code	Α	В	С	Colour	Qty
32	KEC1	86	61	20	W	% ♥ 10
40	KEC2	90	64	23	W	₽ 10
50	KEC3	82	50	30	W	₽ ♥ 10

Expansion/adaptor

PIPE CLIPS





Size mm	Code	A	В	Colour	Qty
32	KF1	57	30	WBG	♥ 100
40	KF2	62	30	WBG	♥ 100
50	KF3	77	41	WBG	₩ 80

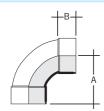
Open PVCu

п
,)) A
⊥ _B ⊥ '
1 5 1

ize mm	Code	Α	В	Colour	Qty
32	WC3	76	30	W B	₽ \$ 100
10	WC4	82	30	W B	% ♥ 100
50	WC5	100	38	W	%♥ 80

BENDS





Size mm	Code	Angle	Α	В	Colour	Qty
32	KB1	88½°	57	18	W B	% ♥ 50
40	KB2	88½°	62	21	W B	% 30
50	KB3	88½°	78	28	W B	₽ ♥ 10



Size mm	Code	Angle	Α	В	Colour Qty			
32	KB12	45°	29	18	WB			
40	KB22	45°	33	21	WB			
50	KB32	45°	42	28	WB			
Solvent sockets								





Size mm	Code	Angle	Α	В	Colour	Qty
32	KBA12	45°	24	23	W I	₹ ♥ 40
40	KBA22	45°	35	26	W	% ♥ 20

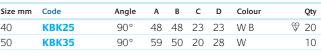
Solvent socket/spigot

Solvent sockets

BENDS

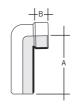
TEES





Knuckle bend/boss adaptor KBK35 is a Radius Bend which can solvent weld over a boss upstand

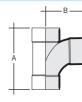




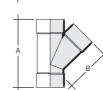
Size mm	Code	Angle	Α	В	Colour	Qty
32	KBS1	87½°	92	18	W	20
40	KBS2	87½°	92	23	W	20

Solvent socket/spigot





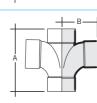
Size mm	Code	Angle	Α	В	Colour	Qty		
32	KT1	88½°	92	57	W B	₹ 30		
40	KT2	88½°	106	62	W B	₹ 20		
50	KT3	88½°	135	78	W B	₹ 10		
Solvent so	Solvent sockets							



Size mm	Code	Angle	A B	Colour	Qty
40	KT21	45°	117 78	W	₽ \$ 20
50	KT31	45°	149 100	W	₽\$ 10

Solvent sockets



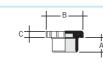


ize mm	Code	Angle	Α	В	Colour		Qty
10	KXT21	88½°	106	62	W	$\mathbb{A}_{\mathbb{A}}$	10
50	KXT31	88½°	140	87	W	B	10

Solvent sockets

ACCESS PLUG





ize mm	Code	Α	В	С	Colour		Qty
32	KAP1	22	53	8	W B	R	10
40	KAP2	25	57	8	W B	R	10
50	KAP3	33	71	8	W B	R	10

SOCKET REDUCER





Size mm	Code	Α	В	Colour		Qty
32-21.5	KR175	22	20	W		100
40-32	KR210	28	22	W B	$\not \triangleright \triangle$	80
50-32	KR310	32	28	W	B	40
50-40	KR320	32	28	W B		40
Solvent sp	igot/socket					

IRON ADAPTORS





emale							
ize mm	Code	Α	В	С	Colour		Qty
32	KFA1	50	25	20	W	\Diamond	10
10	KFA2	53	25	24	W	\triangle	10
50	KFA3	60	25	28	W	\triangle	10





Solvent socket/BSP thread

Size mm	Code	Α
32	KMA1	44
40	KMA2	47
50	KMA3	53

Solvent socket/BSP thread

PVCc Solvent weld pipe is manufactured to BS EN 1566 PVCu Solvent weld fittings are manufactured to BS 5255

♥ 50 ♥ 40 ♥ 40

Solvent waste - ABS

PIPE





Size mm	Code	Length	Colour	Qty
32	WAP33	3m	WBG	♥ 10
40	WAP43	3m	WBG	♥ 10
50	WAP53	3m	WBG	♥ 5

STRAIGHT COUPLINGS





Size mm	Code	A B	Colour	Qty
32	WAC3	40 20	W B G	♥ 40
40	WAC4	46 23	W B G	₩ 30
50	WAC5	63 30) WBG	₩ 30





Size mm	Code	Α	В	С	Colour	Qty
32	WAC31	86	61	20	W	♥ 10
40	WAC41	90	64	23	W	♥ 10
50	KEC3*	82	50	30	W	% ♥ 10

Expansion/copper adaptor

PIPE CLIPS





Size mm	Code	Α	В	Colour	Qty
32	KF1	57	30	WBG	♥ 100
40	KF2	62	30	WBG	₩ 100
50	KF3	77	41	WBG	♥ 80
Open DVC	ìı				



Size mm	Code	Α	В	Colour	Qty
32	WC3	76	30	WBG	% ♥ 100
40	WC4	82	30	WBG	₽ \$ 100
50	WC5	100	38	W	08 ∜≨
Saddle					

BENDS





Size mm	Code	Angle	Α	В	Colour	Qty
32	WAB3	88½°	55	20	WBG ∜	50
40	WAB4	88½°	64	23	WBG ∜	30
50	WAB5	88½°	86	30	WBG ∜	9 20





Size mm	Code	Angle	Α	В	Colour	Qty
32	WAB31	45°	32	20	WBG	40
40	WAB41	45°	36	23	WBG	♥ 20
50	WAB51	45°	47	30	WBG	♥ 20





Size mm	Code	Angle	Α	В	Colour	Qty
32	WAB32	45°	45	20	W	30
40	WAB42	45°	48	23	W	♥ 20



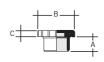


Size mm	Code	Angle	Α	В	Colour	Qty
32	WAB33	90°	44	20	WBG	₩ 30
40	WAB43	90°	53	23	WBG	♥ 20

Knuckle bend

ACCESS PLUG

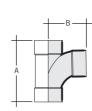




Size mm	Code	Α	В	С	Colour	Qty
32	WAA3	22	53	8	WBG	♥ 10
40	WAA4	25	57	8	WBG	♥ 10
50	WAA5	33	71	8	WBG	♥ 10

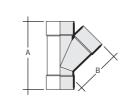
TEES





Size mm Code	Angle	A B	Colour	Qty
32 WAT3	88½°	90 55	WBG	♥ 30
40 WAT4	88½°	107 64	WBG	♥ 20
50 WAT5	88½°	140 86	WBG	♥ 10

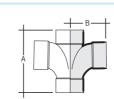




Size mm Code Angle	А В	Colour	Qty
32 WAT31 45° 10)2 65	W ♥	20
40 WAT41 45° 1	17 79	W ♥	20
50 WAT51 45° 1!	50 100	₩ 💝	10

CROSS TEE





Size mm	Code	Angle	Α	В	Colour	Qty
40	WAT42	88½°	106	65	W	♥ 10
50	WAT52	88½°	140	88	W	♥ 10

SOCKET REDUCER





Size mm	Code	Α	В	Colour	Qty
40-32	WAR43	26	20	WBG	♥ 80
50-32	WAR53	31	20	WBG	♥ 40
50-40	WAR54	31	23	WBG	♥ 40

IRON ADAPTORS





Telliale						
Size mm	Code	Α	В	С	Colour	Qty
32	WAF3	50	25	25	W	♥ 10
40	WAF4	53	25	24	W	♥ 10
50	WAF5	60	25	28	W	♥ 10





laie						
ize mm	Code	Α	В	С	Colour	Qty
2	WAM3	44	20	20	W	♥ 50
0	WAM4	47	20	24	W	♥ 40
0	WAM5	53	20	28	W	♥ 40

CAP AND LINING





ABS Solvent weld system is manufactured to BS EN 1455-1 R CAD drawing available to download from marleypd.co.uk

Size mm	Code	A	Colour	Qty
32	WAM31	58	W	♥ 10

Push-fit waste - PP

PIPE





Size mm	Code	Length	Colour	Qty
32	WPP33	3m	WBG	♥ 10
40	WPP43	3m	WBG	♥ 10

STRAIGHT COUPLING





Size mm	Code	Α	В	Colour	Qty
32	WPC3	66	38	W B G	10
40	WPC4	69	38	W B G	20

PIPE CLIPS





Size mm	Code	А	В	Colour	Qty
32	KF1	57	30	WBG	₩ 100
40	KF2	62	30	WBG	₩ 100
Open PVC	Cu				





Size mm	Code	Α	В	Colour	Qty
32	WC3	76	30	WBG	₽ ♥ 100
40	WC4	82	30	WBG	₽\$ 100
Caddla					

BENDS





3 G	20
3 G	20
E	B G





Size mm	Code	Angle	Α	В	Colour	Qty
32	WPB32	45°	36	31	WBG	10
40	WPB42	45°	36	32	WBG	20
Spignat/purch fit cockate						





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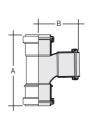
Size mm	Code	Angle	Α	В	Colour	Qty	
32	WPB33	90°	60	60	WBG	10	
40	WPB43	90°	65	65	WBG	20	
Knuckle bend							

Size mm	Code	Angle	Α	В	Colour	Qty
32	WPB34	88½°	75	37	WBG	10
40	WPB44	88½°	75	37	WBG	30

Spigot/socket

TEE





22 MARTA 001/0 10F C2 MAR C	
32 WPT31 88½° 105 63 W B G	10
40 WPT41 88½° 115 68 W B G	30

Ring seal sockets

ACCESS PLUG





Size mm	Code	A	Colour	Qty
32	WPA31	20	WBG	100
40	WPA41	20	WBG	100

Push-fit spigot

SOCKET REDUCER





Size mm	Code	Α	В	Colour	Qty
40-32	WPR43	45	36	WBG	10
Socket/sp	igot				

MULTI-FIT COMPONENTS





Size mm	Code	Α	В	С	Required hole size	Colour	Qty
32	WUM33	86	56	24	42	G	♥ 10
40	WUM43	86	58	24	50	G	♥ 20

Fit BS EN 1451, BS EN 1455 or BS EN 1566 pipe. Straight tank connector

MULTI-FIT WASTE CONNECTOR



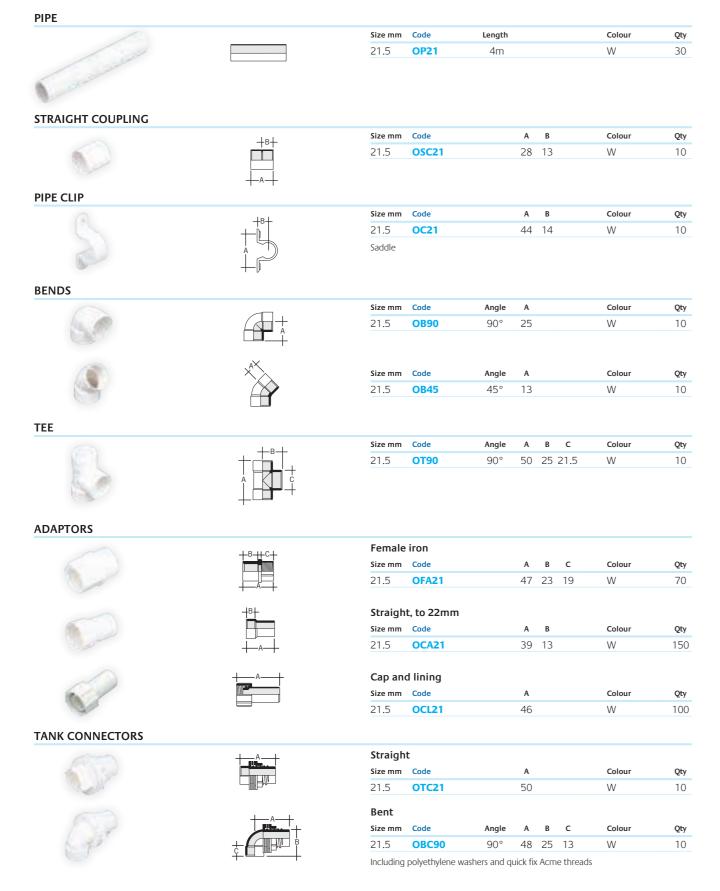


Size mm	Code	Α	В	Colour	Qty
32	WCC3	75	25	W	200
40	WCC4	75	25	W	150
Charlaha a	a constitue an				

Straight coupling



Condense and Overflow system – PVCu



Marley co-ex soil

110mm soil pipe with at least 30% recycled content

Marley 110mm soil pipe now combines the environmental benefits of using recycled material with the quality and aesthetic advantages of co-extrusion technology.

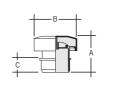
- ♥ BS EN 1329 certified
- Higher gloss levels
- Improved weathering performance
- Available in grey and black
- Same list price as standard white pipe
- Colour matched to all standard 110mm Marley soil fittings



Accessories

DURGO AIR ADMITTANCE VALVES





ize mm	Code	Α	В	С	Colour	Qty	
0	SVD2*	98	82	28	W	32	
2	SVD3*	108	118	40	G	18	
10	SVD4	124	138	50	G	18	

Durgo valve including polystyrene insulating hood. *Can be fitted below flood level. It is recommended this is fitted in a push-fit socket. BBA certified for use up to 10 storeys.

VENT TERMINAL



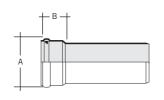


Size mm	Code	Α	В	Colour	Qty
50	RV225	55	18	WBG	30

Push-fit soil - PVCu

PIPE





Size mm	Code	Length	Α	В	Colour	Qty
82	SP303	3m	100	76	ВG	♥ 156
82	SP304	4m	100	76	G	♥ 156

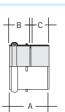
110MM CO-EX SOIL

110	374023	١١١١ ٤.	120 70	ВG	A 100
110	SP403	3m	128 70	WBG	₽ ♥ 2
110	SP404	4m	128 70	G	♥ 100
160	SP603	3m	182 107	G	♥ 46
160	SP604	4m	182 107	G	₩ 46

Push-fit socket

STRAIGHT COUPLINGS

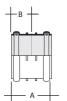




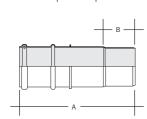
Loose p	ipe socket
Size mm	Code
82	SE300
110	SE400
160	SE600

Loose p	ipe socket				
Size mm	Code	A B	С	Colour	Qty
82	SE300	103 50	48	BG	₩ 30
110	SE400	109 61	48	WBG 🖟	8 ∜
160	SE600	190 107	77	G	♥ 4









Double	rina	seal	slip	coup	ina
			٠٢	P	

Size mm	Code	A B	Colour	Qty
82	SE305	104 49	BG	♥ 30
110	SE405	128 64	ВG	₩ 8
160	SE605	170 83	G	₩ 4

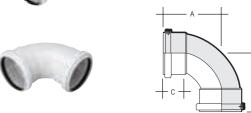
Triple socket

Size mm	Code	A B	Colour	Qty
110	SE402	311 82	G	% ♥ 4

SHORT RADIUS BENDS







ize mm	Code	Angle	Α	В	С	Colour	(Qty
2	SB31	87½°	138	115	49	BG	♡ :	20
10	SB41	87½°	158	157	70	WBG	$\mathbb{A} \mathbb{A}$	4
60	SFB61	87½°	242	232	88	G	\triangle	1

Push-fit socket/spigot

Size mm	Code	Angle	Α	В	С	Colour	Qty
82	SB35	45°	76	73	49	B G	₹ 20
110	SB45	45°	84	89	62	WBG №	₹ 4
160	SFB65	45°	120	118	85	G f	₹ 2

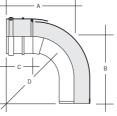
Push-fit socket/spigot

Size mm	Code	Angle	Α	В	С	Colour		Qty
110	SB411	88½°	135	145	50	BG	♡	4

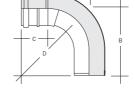
Double push-fit socket

ADJUSTABLE BENDS



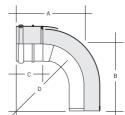


ze mm	Code	Angle	Α	В	С	Colour	Qty
2	SB37	11-87½°	195	187	49	ВG	10
ch fit co	ckot/spigot						



Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SB46	5-14°	125	135	82	G	4
Push-fit so	cket/spigot						

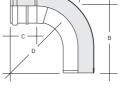




Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SB47	21-90°	189	187	90	127	ВG	B	4

Push-fit socket/spigot





Size mm	Code	Angle	Α	В	С	D	Colour		Qty
160	SB67	31-90°	285	275	96	184	G	♡	2

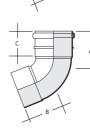
Push-fit socket/spigot

OFFSET BENDS





Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SNE405	67½°	94	91	60	WBG	4
Duch_fit co	olvent socket						

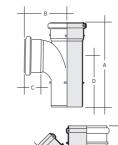


Size mm	Code	Angle	Α	В	С	Colour	Qty
82	SNE300	67½°	98	86	57	B G	30
160	SNE600	67½°	178	182	88	G	140

Push-fit solvent socket.

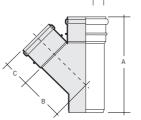
EQUAL BRANCHES





Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SY401	87½°	299	150	60	175	WBG	₽ \$	4
160	SY601	87½°	438	245	96	260	G	♡	2





Size mm	Code	Angle	Α	В	С	Colour		Qty
82	SY36	45°	229	130	55	G	♡	10
110	SY460	45°	285	198	62	BG	B	4
160	SY63	45°	400	200	90	G	♡	2

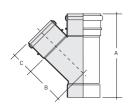
Push-fit sockets/spigot

14 | MARLEY PVC Soil & Waste To BS 4514 and / or BS EN 1329 'B' as appropriate Representation in the CAD drawing available to download from marleypd.co.uk MARLEY PVC Soil & Waste | 15

Push-fit soil - PVCu

EQUAL BRANCHES

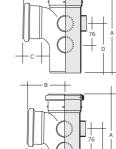




Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SY466	45°	282	198	62	BG	4
Push-fit so	ockets/solvent so	cket					

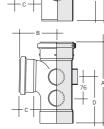
FIVE BOSS BRANCHES





Size mm	Code	Angle	Α	В	С	D	Colour		Qt
110	SY405	87½°	287	143	60	175	WBG	$\mathbb{A} \mathbb{A}$	4
Push-fit so	ockets/spigot								

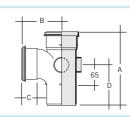




Size m	m Code	Angle	Α	В	С	D	Colour		Qty
110	SYS415	87½°	280	143	60	168	ВG	₽ \$	4
Push-f	it sockets/solvent s	ocket							

THREE BOSS BRANCH

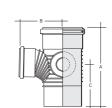




Size mm	Code	Angle	A B	С	D	Colour	(2ty
82	SY33F	87½°	212 122	52	121	BG	₩ .	10

UNEQUAL BRANCHES





Size mm Code	Angle	Α	В	С	Colour		Qty
160x110 SY64	87½°	337	175	175	G	∇	2

Push-fit sockets/spigot. 2 boss/access upstands

UNEQUAL BRANCHES

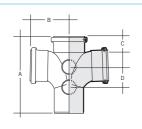




ze mm	Code	Angle	Α	В	Colour	Qty
60x110	SY66	45°	335	306	G	2

Push-fit sockets/spigot



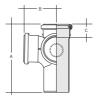


Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SY404	87½°	288	141	54	76	G	16€	4
D 1 (")		,							

Push-fit sockets/spigot. 2 boss/access upstands

CORNER BRANCH

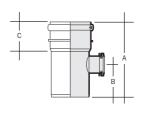




Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SY411°	87½°	287	143	60	175	G	♡	4
Push-fit so	ckets/spigot. 1 bo	oss upstan	d						

BOSS PIPES





110 SW41 87½° 204 86 82 W B G № 4	Size mm	Code	Angle	Α	В	С	Colour	Qty
	110	SW41	87½°	204	86	82	WBG 🧏 🦁	4

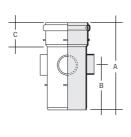
Push-fit socket/spigot. 1x40mm boss connection

Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SW415	87½°	204	86	82	ВG	% ♥ 4

Push-fit socket/spigot. 1x32mm boss connection

BOSS PIPES





Size mm	Code	Angle	Α	В	С	Colour	Qty
82	SW30	90°	202	101	49	ВG	♥ 15
Dunk fit on	aliationiant 2	b a a a a a t a a a d	. 1	امماا			

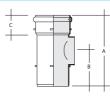
Push-fit socket/spigot. 3 boss upstands, 1 drilled

Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SW40	90°	244	123	70	WBG ₽₹	7 4

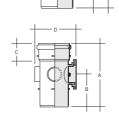
Push-fit socket/spigot. 4 boss upstands

ACCESS PIPES





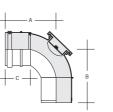
82 SF31 205 101 52 B G \heartsuit 15	Size mm	Code	Α	В	С	Colour		Qty
	82	SF31	205	101	52	BG	\Diamond	15



Size mm	Code	Α	В	С	D	Colour		Qty	
110	SF41	244	123	70	152	BG	₽ \$	4	
Sockat/cn	igot								

REAR ACCESS BENDS





Size mm	Code	Angle	Α	В	С	Colour		Qty
110	SB42	87½°	138	146	55	B G	₩	4
Push-fit so	ocket/spigot							

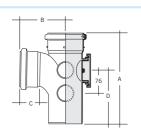
size mm	Code	А	В	C	Colour	Qty
82	SB38	124	127	57	BG	1

Push-fit socket/spigot

Solvent soil - PVCu

REAR ACCESS BRANCHES

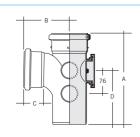




Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SY402	871/2°	287	143	60	175	BG	₽\$	4
4 boss up	stands								

REAR ACCESS BRANCHES





Size mm	Code	Angle	A B	С	D	Colour	Qty
82	SY34F	87½°	212 121	52	101	BG	6

BOSS CONNECTOR

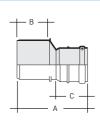




Size mm	Code	Angle	Α	В	Colour	Qty
32	SA411	87½°	43	21	W B G	50
40	SA421	87½°	43	21	W B G	40
50	SA420	87½°	66	45	B G	40

LEVEL INVERT REDUCERS





Size mm	Code	Α	В	С	Colour	Qty
110x82	SRM304	192	78	82	BG	20
Spigot/soc	cket					

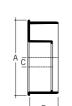
Size mm Code	A E	з с	Colour	Qty
160x110 SRM604	219 9	0 82	G	₩ 4
Spigot/socket				

CONCENTRIC REDUCER





ize mm	Code	Α	В	Colour	Qty
110-50	SE41	105	135	BG	№ ♥ 18
inignt to	hassunstand				



Size mm	Code	Α	В	С	Colour	Qty
160	SRS604	168	68	20	G	6

Spigot/socket

Solvent weld with push-fit seal

ADAPTOR





A B

Size mm	Code	Α	В	С	Colour	Qty
110	SA42	130	65	130	В	40
Soil to dra	ain adaptor					

Size mm	Code	Α	В	С	Colour	Qty
110	SA110	58	25	34	В	10

Waste to drain adaptor

PIPE





110MM	CO-EX SO	L		
Size mm	Code	Length	Colour	Qty
110	SL403	3m	WBG	♥ 100
110	SL404	4m	G	♥ 100
160	SL603	3m	G	46
160	SL604	4m	G	46
Double sp	oigot			

STRAIGHT COUPLINGS





ipe socket					
Code	Α	В	С	Colour	Qty
SE300	103	50	48	ВG	♥ 30
SE400	109	61	48	WBG	₽\$ 8
SE600	190	107	77	G	♥ 4
	Code SE300 SE400	Code A SE300 103 SE400 109	Code A B SE300 103 50 SE400 109 61	Code A B C SE300 103 50 48 SE400 109 61 48	Code A B C Colour SE300 103 50 48 B G SE400 109 61 48 W B G

-5				
V		Ø.		
М		V		
99	7			



ubl	e so	lvent soc	ket		
e mn	n Co	ode		Α	В

Size mm	Code	Α	В	С	Colour		Qty
82	SES301	93	44	82	G	♡	50
110	SES401	102	50	124	BG	ß	8
160	SES601	174	64	128	G		4

EXPANSION COUPLING



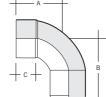


lvent	lvent socket ring seal adaptor									
e mm	Code	Α	В	С	Colour					
_		405			2.0					

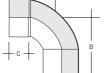
To accommodate thermal movement in both vertical and horizontal solvent pipework

SHORT RADIUS BENDS





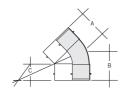
ize mm	Code	Angle	Α	В	С	Colour		Qty
110	SBS41	87½°	162	168	50	G	$\not \triangleright \otimes$	4
Solvent so	cket/spigot							



Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SBS42	87½°	149	149	47	119	BG	\triangle	4
160	SBS62	87½°	186	186	66		G		2

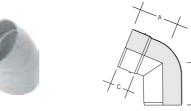
Double solvent socket





Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SBS45	45°	76	76	52	BG ♭	4
160	SBS65	45°	98	98	66	G	2

Double solvent socket



Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SBS415	45°	76	89	52	BG	4
160	SB615	67½°	168	175	76	G	2

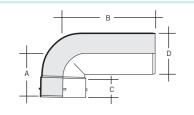
Solvent socket/spigot

18 | MARLEY PVC Soil & Waste To BS 4514 and / or BS EN 1329 'B' as appropriate Representation in the CAD drawing available to download from marleypd.co.uk MARLEY PVC Soil & Waste | 19

Solvent soil - PVCu

LONG RADIUS BEND



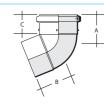


Size mm	Code	Angle	Α	В	С	D	Colour		Qt
110	SBS40	87½°	114	240	48	110	WBG	$\mathbb{A}_{\mathbb{A}}$	4

Solvent socket/spigot

OFFSET BENDS

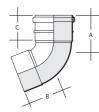




Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SNE405	67½°	76	61	60	WBG	4

Push-fit solvent socket



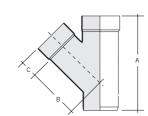


Size mm	Code	Angle	Α	В	С	Colour	Qty
82	SNE300	67½°	88	48	49	BG	30
160	SNE600	67½°	178	182	96	G	140

Push-fit solvent socket.

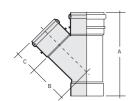
EQUAL BRANCHES





Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SYS460	45°	277	135	55	BG	4
Columnt co	sekate/enigat						

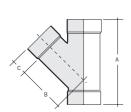




Size mm	Code	Angle	Α	В	C	Colour	Qty
110	SY466	45°	282	138	60	BG	4

Push-fit sockets/solvent socket



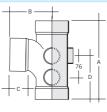


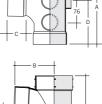
Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SYS466	45°	274	135	55	ВG	4
160	SYS666	45°	362	194	66	G	4

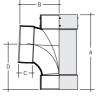
Triple solvent socket

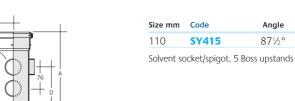
EQUAL BRANCH











Size mm Code Angle A B C D Colour 87½° 272 135 55 168 BG

Triple solvent socket. 5 Boss upstands

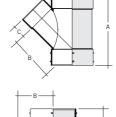
SYS601 87½° 270 180 66 205 G

Triple solvent socket

87½° 279 135 55 175 BG 110 **SY415**

UNEQUAL BRANCHES





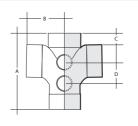
	+			
-	A			

Size mm	Code	Angle	Α	В	С	Colour	Qty
160	SYS644	45°	286	169	55	G	4

87½° 234 132 52 118 G

DOUBLE BRANCH



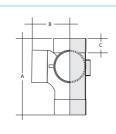


Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SYS404	87½°	274	133	45	76	G	₽\$	4

All solvent sockets, 4 boss upstands

CORNER BRANCH





110 SYS411° 87½° 272 135 55 G	Size mm	Code	Angle	A B	С	Colour	Qty
	110	SYS411°	87½°	272 135	5 55	G	₽ ♥ 1

All solvent sockets. 1 boss upstand

Solvent soil PVCu

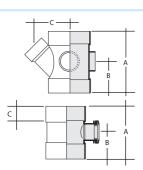
BOSS PIPES











Size mm	Code	Angle	Α	В	С	Colour		Qty
110	SWS4135	45°	186	93	145	G "	⅌	4
Dunk fit on	alvationiant 1v40s	b.a.a.						

Push-fit socket/spigot. 1x40mm boss connection

Size mm	Code	Angle	Α	В	С	Colour		Qty
110x32	SWS415	87½°	170	85	52	WBG	ß	4
Push_fit so	cket/spigot	1v32mm hoss (connec	tion				

Size mm	Code	Angle	Α	В	С	Colour	Qty
110x40	SWS41	87½°	170	85	52	WBG 🖟	4

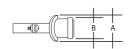
Push-fit socket/spigot. 1 drilled boss upstand

Size mm	Code	Angle	Α	В	С	Colour	Qty
110x50	SWS42	87½°	170	85	52	B G	4

Push-fit socket/spigot. 1 drilled boss upstand

STRAP-ON-BOSS

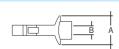




Size mm	Code	Angle	Α	В	Required hole size	Colour	Qty
32x110	SWS4150	90°	70	55	50	BG	♥ 40
40x110	SWS410	90°	70	62	50	BG	♥ 40
50x110	SWS420	90°	86	75	63	BG	♥ 30

CONDENSATE STRAP-ON-BOSS





Size mm	Code	Angle	Α	В	Colour	Qty
21.5x110	SWS4C	90°	70 2	21.5	G	50

PATCH BOSS





Size mm	Code	Α	В	Colour	Qty
32x82	SWS332	95	18	G	♥ 20
40x82	SWS340	95	23	G	♥ 20
50x82	SWS350	95	27	G	♥ 20

8-WAY COLLAR BOSS





Size mm	Code	Α	В	С	D	Ε	F	G	Colour	Qty
110	SCB41	195	157	140	195	61	204	70	G	1

Solvent socket/spigot



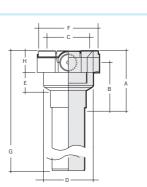


ize mm	Code	Α	В	С	D	E	F	G	Colour	Qty
10	SCBS41	184	146	140	164	61	204	70	G	1

Double solvent socket tail

8-WAY COLLAR BOSS





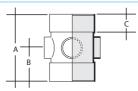
 Size mm
 Code
 A
 B
 C
 D
 E
 F
 G
 H
 Colour
 Qty

 110
 SCBL41
 184
 146
 140
 164
 61
 204
 532
 70
 G
 1

Solvent socket/spigot with 350mm spigot tail

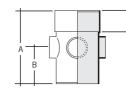
BOSS PIPES





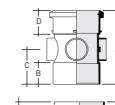
Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SWS40	90°	179	92	55	B G	4
160	SWS60	90°	200	100	66	G	4
Double so	olvent socket. 4 bo	ss upstan	ds, 1 dr	illed			





Size mm	Code	Angle	Α	В	С	D	Colour	Qt
110	SWS405	90°	179	92	54		BG	4
Solvent so	cket/spigot. 4 boss	upstand	s, 1 dri	lled				





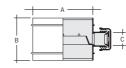
Size mm	Code	Angle	Α	В	С	D	Colour	Qty
110	SWS406	90°	184	55	87	60	G	4
Push-fit/S	olvent socket. 4	boss upstan	ds.					

Size mm	Code
160	SW60
Solvent so	cket/spigot

Size mm	Code	Angle	A I	3 C	Colour	Qty
160	SW60	90°	335 1	10 96	G	4
Solvent so	ncket/spiant					

CONDENSATION TRAP



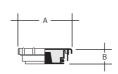


Size mm	Code	Α	В	С	Colour	Qty
110	SCT4	115	82	22	G	6
With 21.5	5/22mm overflow connectio	n				

B C

ACCESS CAPS

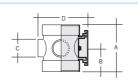




Size mm	Code	A B	Colour	Qty
82	SE30	114 35	BG	30
110	SE40	150 37	BG 🖟	30
160	SE62	195 40	G	15

ACCESS PIPES





Size mm	Code	Α	В	С	D	Colour		Qty
110	SFS41	150	75	56	154	WBG	R	4

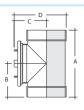
Double solvent sockets. 3 boss upstands

Solvent soil - PVCu

Accessories

ACCESS PIPES





Size mm	Code	Α	В	С	D	Colour	Qt
160	SF611	287	144	138	223	G	2

Double solvent sockets

REAR ACCESS BEND





Size mm	Code	Angle	Α	В	С	Colour	Qty
110	SBS420	87½°	131	128	54	B G	4

Double solvent socket

BOSS CONNECTORS

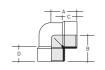




Size mm	Code	Α	В	Colour	Qty
32	SA415	35	20	G	50
40	SA425	30	25	BG	50
50	SA435	58	28	G	50

Solvent weld with solvent weld joint





Size mm	Code	Angle	Α	В	С	D	Colour	Qty
40	KBK25	90°	48	48	23	23	W B	♥ 20
50	KBK35	90°	59	50	20	28	W	10

Solvent weld





Size mm	Code	Α	В	Colour		Qty
32	SA411	43	21	WBG	R	50
40	SA421	43	21	WBG	R	40
50	SA420	66	45	ВG	R	40

CONCENTRIC REDUCERS

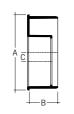




Size mm	Code	Α	В	С	Colour	Qty
110-50	SE41	105	135		ВG	₽ ♥ 18

Spigot to boss upstand. Spigot/Socket

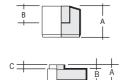




Size mm	Code	Α	В	С	Colour	Qty
160-110	SRS604	168	68	20	G	6
pigot/Socke	t					

ECCENTRIC REDUCERS





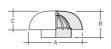
Size mm	Code	Α	В	Colour	Qty
82-50	SRM30	66	35	BG	90
Spigot tail					

Size mm	Code	Α	В	С	Colour		Qty
110-50	SRM402	48	25	19	BG	R	10

Solvent socket to boss upstand

VENT TERMINALS





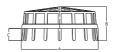
Roof cov	/l/vent terminal						
Size mm	Code	Α	В	C	Colour		Qty
110	SVC1	200	98	70	WBG	B	10





Vent terminal								
Size mm	Code	Α	В	С	Colour		Qty	
82	SV321	90	30	75	BG		30	
110	SV42	117	34	95	WBG	R	60	

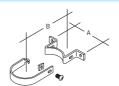




Vent terminal						
Size mm	Code	Α	В	С	Colour	Qty
160	SV62°	160	71	25	G	20

CLIPS





Socket clip						
Size mm	Code	Α	В	Colour		Qty
110	SC41	152	101	ВG	De .	50
160	SC61	240	121	G		50
PVC coated mild steel, includes 6x20mm nut and bolt						





Barrel clip collar						
Size mm	Code	Colour	Qty			
1000	SC621	G	25			





Pipe clip						
Size mm	Code	A B	Colour	Qty		
32	SC35	125 93	BG ♥	20		
110	SC45	150 101	WBG 🖟	50		





110	3043	130 101	VVDG	.0	50
PVCu					
Pipe clip	p				





2	SC35S	117	70	ВG
or use w	ith drive-in spike or backplate	€.		

Converts socket clip to pipe clip (3x110mm or 2x160mm)





Extension backplate			
Code	A B	Colour	Qty
RT200	104 45	W B G BR	50



Drive-in spike				
Code	Α	В	С	
RSS1°	115	58	19	

For use with RC251/2, RCE2 and RC32 pipe clips



alvanised	mild	steel	

Extension backplate				
Code	Α	В	Colour	Qt
RCB300	48	31	W B G BR	₽ \$ 10

For use with SC35S

WC connectors

CLIPS







EXTERISION DIACKET							
	Code	A B	Colour	(
110	RT250	243 114	BG	2			





Cover	plate

	Code	Α	В	Colour	Qty
110	RT2501	111 3	35	BG	1

For use with RT250

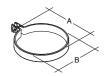






Code A B Colour O	
., 5	<u>)</u> ty
110 RPC1 137 111 BG 2	20





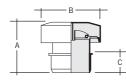
Weathering collar

610

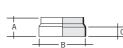
Socke	t clip			
	Code	A B	Colour	Qty
110	RSC1	141 119	BG	1

DURGO AIR ADMITTANCE VALVES









Size mm	Code	Α	В	С	Colour	Qty
50	SVD2*	98	82	28	W	32
82	SVD3*	108	118	40	G	18
110	SVD4	124	138	50	G	18

Durgo valve including polystyrene insulating hood. *Can be fitted below flood level. It is recommended this is fitted in a push-fit socket

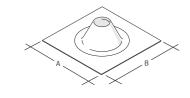
Size mm	Code	Α	В	С	Colour	Qty
82	SV31*	51	94	25	В	100
110	SV43	57	130	25	W B G	35

PVCu for solvent joint to pipe *Available in black rubber only.

WEATHERING SLATES







ize mm	Code	Α	В	Colour	Qty
100	SAS40	400	400	G	5
lat. Manu	ıfactured from aluminium aı	nd rub	ber		
ize mm	Code	Α	В	Colour	Qty
450	SAS45	450	450	G	5

610 610

Inclined. Manufactured from aluminium and rubber

SAS61

STRAIGHT CONNECTORS







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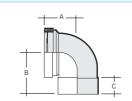
Size mm	Code	Angle	Α	В	С	Colour		Qty
110	SG40	14°	63	50	134	W	B	4
Spigot								

Size mm	Code	Angle	Α	В	С	D	Colour	Qty
110	SGS41W*	14°	139	134	53	80	W	₽ ♥ 20

Solvent socket. Pan socket to be trimmed to suit WC spigot length

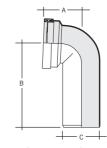
BENT CONNECTORS

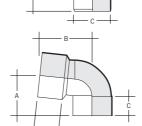




Size mm	Code	Angle	Α	В	С	Colour		Qt
110	ST40	90°	106	125	51	W	ğ	4
Salvant c	ockot							







Size mm	Code	Angle	Α	В	С	Colour		Qty
110	ST41W	90°	106	240	210	W	B	4
Long spic	iot							





Size mm	Code	Angle	Α	В	С	D	Colour		Qty
110	SBS40W	90°	114	240	48	110	W	R	4
	.,								

Long spigot/ solvent socket

WC SEAL AND CAP





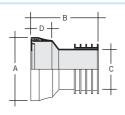
33 - 114mm outlet										
ize mm	Code	A B	Colour	Qty						
	SA323W	141 24		70						
or use w	ith SCS41 and STS41									

Universal push-fit WC connectors

WC manifold system

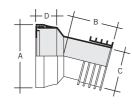
STRAIGHT CONNECTORS





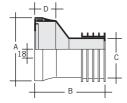
Size mm	Code	Angle	Α	В	С	D	Colour	Qty
100	SWC11		132	110	81	46	W	25





Size mm	Code	Angle	Α	В	С	D	Colour	Qty
100	SWCB14	14°	132	61	81	46	W	20

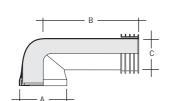




Size mm	Code	Angle	Α	В	С	D	Colour	Qty
100	SWC22	22°	132	115	81	46	W	25

LONG BENT CONNECTOR

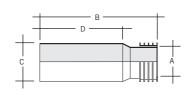




Size mm	Code	Angle	Α	В	С	Colour	Qty
100	SWCB90	90°	132	235	81	W	10

EXTENSION PIECE

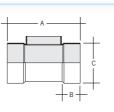




Size mm	Code	Α	В	С	D	Colour	Qty
100	SWCE33	81	300	116	226	W	12

BRANCH

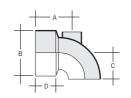




С (Colour	Qty
16 \	W 🖟	10
16	١	W &

ADJUSTABLE WC BEND



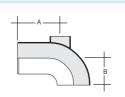


Size mm	Code	Angle	Α	В	С	D	Colour		Qty	
90	SM42W*	50-90°	108	134	75	60	W	R	15	

50mm boss upstand Pan socket to be trimmed to suit WC spigot length

ADJUSTABLE SPIGOT BEND



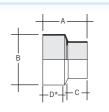


Size mm	Code	Angle	Α	В	Colour	Qty
90	SM43W	50-90°	119	75	W	15

50mm boss upstand

WC CONNECTOR



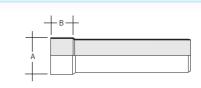


Size mm	Code	Α	В	С	D	Colour		Qty
90	SM44W*	117	134	46	80	W	R	30

50mm boss upstand Pan socket to be trimmed to suit WC spigot length

EXTENSION PIPE





Size mm	Code	A B	Colour		Qty
90	SM45W	96 46	W	B	50

For use with SM43 only

WC SEAL AND CAP



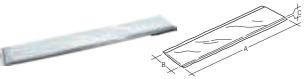


83-114mm outlet						
Size mm	Code	A B	Colour		Qty	
90	SA323W	141 24	W	R	70	
For use w	NNM2 bac CNM2 dti					



Fire protection

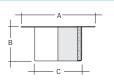
PIPE WRAP



Size mm	Code	A B	C	Qty
110	SFW44	475 75	10	200

FIRE COLLAR





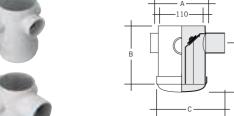
Si	ze mm	Code	No. of lugs	Α	В	Qi	ty
5	0	SFC50	3	74	60	1	l
8	2	SFC82	3	100	60	1	l
1	10	SFC110	4	134	60	1	l
1	60	SFC160	6	200	60	1	l

For further details of Marley Plumbing & Drainage fire collars, please go to marleypd.co.uk.

PVCu floor outlets

TRAPPED FLOOR GULLIES





Size mm	Code	Α	В	С	D	Colour	Qty
50	SFG42AS	117	164	145	116	G	8
Solvent outlet. 90mm adjustable water seal							

Size mm	Code	Α	В	С	D	Colour	Qty
82	SFG43AS	117	164	175	100	G	8
Solvent outlet. 75mm adjustable water seal							

STAINLESS STEEL TILE GRATE AND COVER





Code	2	Α	В	С	Colour	Qty
150x150 SG	54	150	150	7	NU	40
Grade 304 stair	nless steel					

Pipe support systems

TWO PIECE PIPE BRACKET



Size mm	Code	Colour	Qty
110	JB42	NU	50
160	JB62	NU	50

BASE PLATE





Size mm	Code		Colour	Qty
110	JBP42	Double support	NU	1
160	JBP62	Double support	NU	50
	JDP1	Single support	NU	50

Pipe support systems

CHANNEL STRIP





Size mm	Code		Colour	Qty
2000	JCS2	Strip	NU	50
	JCA1	Angle	NU	10

BARREL CLIP COLLAR



1m PVC strip when cut to length. Converts pipe bracket to pipe size (3x110mm or 2x160mm) $\,$

NUTS AND BOLTS



Size mm	Code	Colour	Qty
20x6	RNB11	NU	1

Ancillary items

SOLVENT CEMENT



Tub					
Size	Code		Qty		
250ml	KS10	Tub	20		
500ml	KS20	Tin	20		
To BS EN	To BS EN 14680				

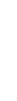
SILICONE LUBRICANT







Tube	with sponge applicator	
Size	Code	Qty
50g	SZ50	10







Aeroso	l"			
Size	Code			Qty
400ml	SZ400			12



Tub		
Size	Code	Qty
500g	SZ500	24
Water R	esearch Centre Approved	

SPARE RING SEALS





'T' ring		
Size mm	Code	Qty
82	SR82T	5
110	SR110T	5
160	SR160T	5
To BS EN 6	581/1	

30 | MARLEY PVC Soil & Waste Representation in the CAD drawing available to download from marleypd.co.uk MARLEY PVC Soil & Waste 31



Sanitary pipework design

All sanitary pipework systems should be designed to satisfy the following regulations and standards where applicable.

- The Building Regulations 2010: Approved Document H, Section 1.
- The Building Standards Technical Handbook (Scotland) 2010: Part M.
- The Building Regulations (Northern Ireland) 2000, Technical Handbook N.
- BS EN 12056: 2000, Parts 1 to 5.

Regular consultation is essential between Architects and Plumbing Engineers throughout the building design stage as the careful arrangement of kitchen and bathroom appliances will simplify the final sanitary pipework layout. This will help to ensure that an efficient sanitary pipework system is installed at minimum cost.

The design information provided in this catalogue is endorsed in the above publications and while every effort has been made to ensure accuracy, no responsibility can be accepted for errors or omissions. For detailed guidance please consult the relevant documents referred to above.

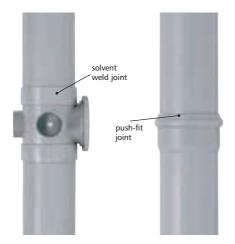
Methods of jointing

82, 110 and 160mm PVCu pipes and fittings are available in both solvent and push-fit jointing methods. Solvent soil is widely used on smaller diameter waste and overflow pipework, although expansion and copper adaptor couplings include a push-fit joint to allow for thermal movement.

As polypropylene cannot be solvent welded, the push-fit method of jointing is used throughout the system.

Thermal movement

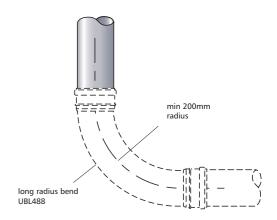
The coefficient of linear expansion for PVCu is 0.06mm/m/°C. As a result a 3m length of pipe will increase in length by approximately 3.6mm when subjected to a 20°C temperature variation. Therefore, it is important to ensure that any movement is controlled and push-fit joints are installed to accommodate any expansion that may occur due to increases in ambient temperature or hot water discharges.



Bends at the base of stacks

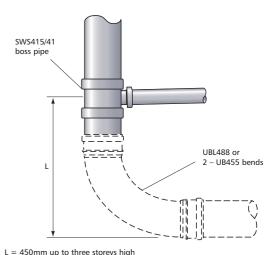
Bends at the base of vertical stacks should be of long radius and have a minimum centre line radius of 200mm on a 110mm nominal size stack. Two 45° radius bends may also be used as an alternative to provide the change of direction and connection to the building drain. The same design principle should also be adopted where offsets occur in stacks of one or more storey height.

Where pipework is suspended in a ceiling void or car park, it is recommended that two 45° solvent weld bends are used with a short piece of pipe between to ensure the radius exceeds that required.



Branches at the base of stacks

For single dwellings up to three storeys high, the distance between the centre line of the lowest branch connection and the invert of the drain should be at least 450mm. For multi-storey systems up to five storeys high, the minimum distance should be 740mm and for systems higher than five floors no connections are permissible at ground floor level. Where this occurs a separate stub stack should be provided to serve the ground floor or individual appliances should have their own separate connection to the building drain.



- L = 740mm up to five storeys high
- L = one storey height, over five storeys

Sizing of soil stacks

It is recommended that the guidance given within BS EN 12056, part 2 be adopted when sizing soil stacks. Marley Technical Services Department offer design and installation advice, including the sizing of soil stacks, for customers who use or specify Marley Plumbing & Drainage products.

Soil stack capacity

The capacity of a soil stack can be increased by the installation of a secondary ventilated stack. The following information is taken from tables 11 & 12 of BS EN 12056-2: 2000 which illustrates this increase.

Primary ventilated stack

Stack size	Maximum capacity (I/s)
(mm)	Swept entries
82	2.6
110	5.2
160	12.4

Secondary ventilated stack

Sta	ck size	Secondary vent	Maximum capacity (I/s)
(mı	m)	(mm)	Swept entries
82		50	3.4
110	0	50	7.3
160	0	80	18.3



Secondary ventilated stack

Material and manufacture

Marley Plumbing & Drainage pipes and fittings for sanitary pipework systems are manufactured from different plastics materials including PVCu. PVCc. ABS and PP.

The table right details the important dimensions and weights of each of the systems together with the relevant British and European Standard. All pipes are manufactured using a continuous extrusion process and fittings are produced by high-pressure injection moulding.

Chemical and temperature resistance

Most plastics used for sanitary pipework are highly resistant to those chemicals normally found in domestic waste water and sewerage systems. For applications where chemical discharges are likely to occur, HDPE soil range may be more suitable.

Generally the maximum working temperature of Marley PVCu, dBlue & HDPE soil and waste systems when subjected to continuous flow is 70°C and 75°C respectively. Higher intermittent discharges of up to 95°C may be accommodated by PVCu provided the period of discharge does not exceed one minute duration.

Alternatively, reference can be made to ISO publications TR10358 & TR7620 which provide comprehensive information on chemical and temperature resistance of plastics and rubber materials.

Dimensions and weights

Pipe Material	BS Nominal Size		Outside er (mm)	Wall Thickness	Weight
Standard	(mm/inch)	Min	Max	(mm) Min	kg/metre
Soil					
PVCu	82	82.4	82.8	3.20	1.30
BS EN 1329	110	110.0	110.3	3.20	1.70
BS 4514	160	160.0	160.4	3.20	2.50
Waste					
MUPVC	36/11/4	36.15	36.45	1.80	0.33
BS 5255	40/11/2	42.75	43.05	1.90	0.41
	50/2	55.75	56.05	2.00	0.57
Waste					
ABS	32/11/4	36.15	36.45	1.80	0.20
BS 5255	43/11/2	42.75	43.05	1.90	0.26
BS EN 1455-1	50/2	55.75	56.05	2.00	0.35
Waste					
Polypropylene	32/11/4	34.45	34.75	1.80	0.21
BS 5254	40/11/2	40.85	41.15	1.90	0.26
Overflow					
PVCu	21.5/3/4	21.55	21.70	1.10	0.11
BS 6700					

Design

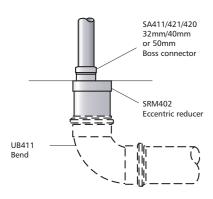


Offsets in stacks

Offsets in the wet portion of a discharge stack should be avoided wherever possible but where they have to be fitted a large radius or two 45° bends should be used to create each change of direction. Offsets in lightly loaded stacks up to three storeys high do not require offset venting but on multi-storey buildings this may be necessary depending on the loading of the stack and the numbers of floors above the offset. The principles previously described for bends and branches at the base of a stack should also be applied.

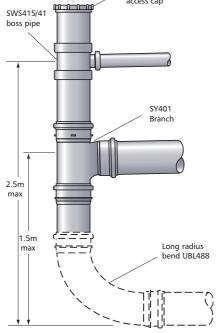
Stub waste

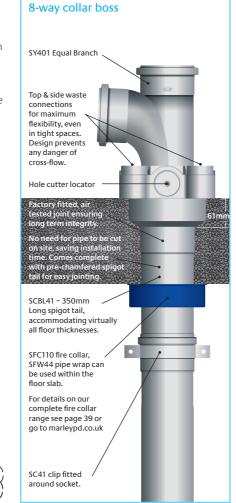
This technique is often used to connect isolated ground floor waste appliances such as basins, baths, shower trays and sinks to eliminate exposed pipework or low level ducting. The 110mm unventilated PVCu drain is terminated at finished floor level with a reducer and boss adaptor to suit the size of waste from the appliance.



Stub stacks

An unventilated stub stack terminated with an access fitting may be used to connect a group of ground floor appliances to the building drain provided the vertical drop to the invert level of the drain does not exceed 1.5m from a WC and 2.5m from a waste appliance. Where one or more stub stacks are connected to the same drain, the head of the run should be ventilated to atmosphere or air admittance valves fitted to each stub stack arrangement.





Branch pipe gradients

The gradient of a branch pipe should be uniform and adequate to drain the pipe and appliance efficiently. A minimum gradient of 18mm/metre should be adopted for 32, 40 and 50mm nominal size pipes but larger diameter 82, 110 and 160mm branch runs may be laid flatter at 9mm/metre fall where the discharge flow rate exceeds 2.5 litres/second.

Branch pipe lengths

The following information is taken from Table 8 of BS EN 12056: 2: 2000 and provides general guidance on the recommended lengths of unventilated branch pipes for a variety of sanitary appliances.



Appliances	Dia (mm)	Min.trap seal depth (mm)	Max. length of pipe (m)	Pipe gradient (%)	Max. bends (No.)	Max. drop H (m)
Washbasin or bidet	32	75	1.7	2.2	0	0
Washbasin or bidet	40	75	3.0	1.8 to 4.4	2	0
Bath or shower	40	50	No limit	1.8 to 9.0	No limit	1.5
Bowl urinal	40	75	3.0	1.8 to 9.0	No limit	1.5
Trough urinal	50	75	3.0	1.8 to 9.0	No limit	1.5
Kitchen sink	40	75	No limit	1.8 to 9.0	No limit	1.5
Dishwasher or washing machine	40	75	3.0	1.8 to 4.4	No limit	1.5
WC	110	50	No limit	1.8 min	No limit	1.5

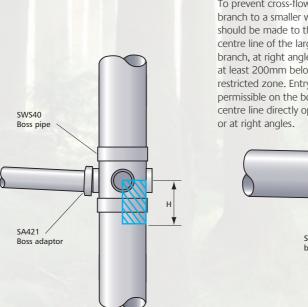
The maximum lengths given above may be increased where the branch pipe is ventilated or an air admittance valve is used. For further details refer to the above standard.

Prevention of cross-flow

Where small diameter branch waste pipes connect to a discharge stack they must be arranged to eliminate the risk of cross-flow from one branch to the other. A branch creates a no entry zone for opposing waste connections, which varies depending on the stack diameter. No connections should be made within the restricted zone although entry is permissible on the centre line of the boundary directly opposite or at right angles.

Height of zone 'H' (mm)
90
110
250

'H' = 200mm irrespective of stack diameter

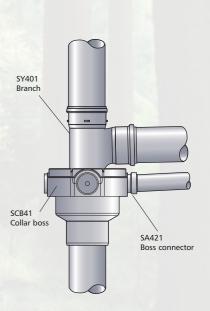


To prevent cross-flow from a large diameter branch to a smaller waste connection, the latter should be made to the stack at or above the centre line of the larger branch, at right angles or at least 200mm below the restricted zone. Entry is permissible on the boundary centre line directly opposite

The Marley Collar Boss was specifically designed to overcome installation problems imposed by the 200mm restricted zone and to allow multiple low level bath or shower waste pipes to be connected to the stack above floor level. Cross-flow is prevented as the circular annular chamber protects the small diameter waste connections from the WC discharge allowing waste water to flow freely and merge below the critical zone.

Different combinations of 110mm branches can be used with the collar boss to accommodate various WC positions which may be up to 3 metres from the vertical stack.





Design



Combined branch waste

A combined branch waste is often used to connect a bath and/or shower and basin to the discharge stack as this allows waste pipework to be neatly concealed in a low level duct.

Where this technique is adopted a 45° entry tee must be used to ensure the basin discharge is swept in the direction of flow towards the stack. The minimum distance between the bath or shower and basin connection should not be less than 500mm and it is recommended that an anti-syphon bottle trap is fitted to the basin or a vent provided to protect the appliance from self-syphonage.

It is recommended that the distance of the combined waste does not exceed 3 metres, however, experience has shown that longer runs using 40 or 50mm pipework has proved successful provided adequate fall can be obtained to ensure self-cleansing velocity is maintained

Waste traps

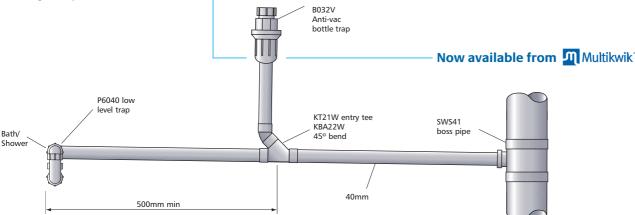
Generally appliances such as sinks, baths and showers do not suffer from self-syphonage as the trap seal is replenished at the end of the discharge due to the flat bottom design of the appliance. Tubular traps are recommended for such appliances as they ensure unrestricted discharge and reduce the risk of blockage and prevent the accumulation of sediment.

- Compression jointed polypropylene traps can be taken apart to remove a blockage or gain access to the waste system
- Range includes P-traps, S-traps, bottle traps, bath & shower traps and different configurations for washing machines, dishwashers, 11/2 or 2 bowl sinks
- White with multiple seal depths
- Sizes: 32, 40 and 50mm

The Multikwik anti-vac bottle trap, B032V / B040V, was specially developed to prevent self-syphonage from basins, which can occur particularly where the waste pipe drops vertically from the appliance before falling at an even gradient to the discharge stack.

The trap also eliminates the need for a secondary vent pipe where basins are located further than the recommended 3m maximum from the stack. Non-mechanical, the trap operates as air is drawn in through a by-pass tube to eliminate any syphonic action and ensure the trap seal is maintained.

It is recommended its use is restricted to ground floor baths and showers that discharge directly to an external trapped gully. It should not be fitted to a bath or shower where the waste pipe is connected to a soil stack.



WC manifold system

Developed for use in sanitary pipework systems in schools, hospitals, public and commercial buildings, the manifold system allows ranges of toilets to be connected to a horizontal float above floor level and eliminate the need for specially fabricated fittings.

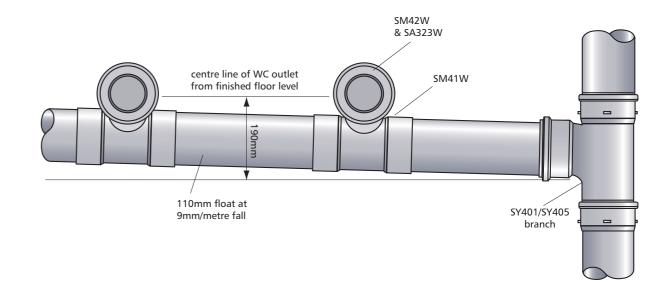
The components are suitable for installation in a duct, or for fitting on the surface of the wall directly behind the pan. Where the manifold is fitted directly behind the range of toilets,

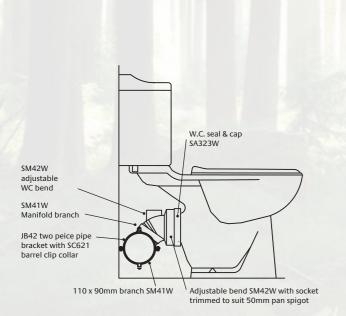
the minimum distance between the end of the WC spigot and the face of the wall is 150mm. To facilitate varying angles and gradients the 110 x 90mm manifold branch has a radial socket to match both options of adjustable WC bend. When the selected bend is cut to the appropriate line and solvent welded into the socket on the manifold branch a uniform fall is obtained between each toilet on the horizontal float.

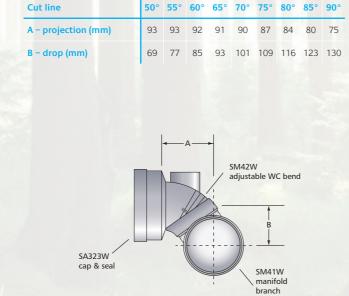
To accommodate different dimensions between the WC spigot and horizontal float, the adjustable spigot bend SM43W may be trimmed by up to 35mm or the extension pipe SM45W can be used with the pan connector SM44W and SA323W cap & seal.

The WC socket on both the SM42W and SM44W must be trimmed to suit the length of pan spigot before the SA323W is fitted.

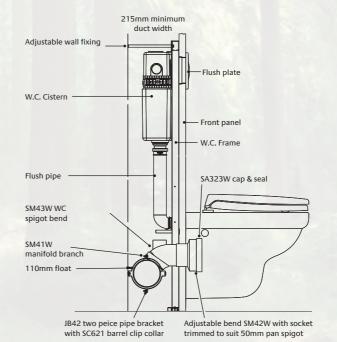
For installation details see page 45.







Manifold branch SM41W with SM42W



Manifold branch SM41W with SM43W **Cut line** 50° 55° 60° 65° 70° 75° 80° 85° 90° 180 180 179 178 177 174 171 167 162 A - projection (mm) 77 85 93 101 109 116 123 130 B - drop (mm) SM43W SA323W SM41W cap & seal SM44W

Design



Durgo air admittance valve

The Durgo valve is designed to reduce the number of ventilating pipes and subsequent roof penetrations in domestic, commercial and public buildings. Suitable for use in sanitary pipework systems up to ten storeys high, the valve must be fitted in a vertical position above the flood level of the highest appliance connecting to the stack. Valves should be installed within the building in a ventilated duct or roof space where there is no risk of freezing and must be accessible for inspection and testing.

The 50, 82 and 110mm size valves have been assessed by the British Board of Agrément and awarded Certificate No 06/4325 which permits their use in accordance with the Building Regulations. A copy of the full certificate is available and provides comprehensive information on their use and installation.

When installed the valve will remain closed unless the system is subject to negative pressure whereby the diaphragm will lift and allow air to be drawn in to eliminate syphonic action. Positive pressure ensures the valve closes and prevents foul air escaping from the system. Each valve is supplied boxed with a polystyrene insulation cover that should remain in position after installation, as this will protect the valve against freezing, particularly when installed in a roof space.

To ventilate the underground drainage system and to minimise the effects of back pressure should a blockage occur, the branch or main drain serving a stack or stacks fitted with Durgo valves may require conventional venting at a point upstream of the stack connection.

For up to and including four dwellings, 1, 2, or 3 storeys in height, additional drain venting is not required. Where a drain serves more than four such dwellings equipped with the valve, the drain should be vented according to the following rules:

5 to 10 such dwelling – conventional ventilation to be provided at the head of the system.

11 to 20 such dwellings – conventional ventilation to be provided at the mid-point and at the head of the system.

For multi-storey domestic dwellings (other than those referred to previously) and non-domestic buildings, conventional drain venting should be provided if more than one such building, each equipped with the valves, is connected to a common drain which itself is not vented by means of a ventilating stack or a discharge stack not fitted with a valve.

Stacks should not be fitted with valves when the connecting drain is subject to periodic surcharging or is fitted with an intercepting trap. An open vent must be provided and this also applies to stacks that discharge to a cesspool or septic tank.

Fire protection

The Building Regulations 1991 (as amended) require that a building shall be sub-divided into compartments where necessary to inhibit the spread of fire. Plastics pipework is permitted to penetrate separating walls, compartment walls and floors provided the appropriate measures are taken to prevent the spread of fire in accordance with Part B of the Approved Document (2010).

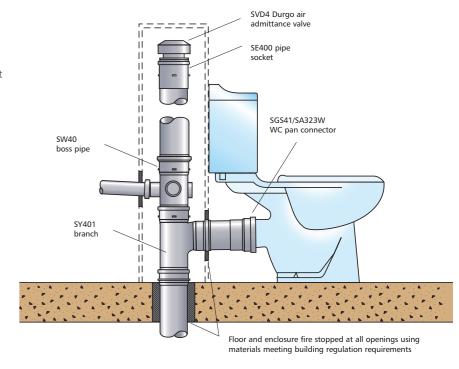
To comply with this, pipes must be enclosed within a fire resistant enclosure which extends from floor to ceiling within each storey. The enclosure must have a class 'O' internal surface and have each side formed by a separating wall, external wall or by casing. Any casing must have a minimum ½ hour fire resistance and penetrations of the duct must be limited to 160mm vertical and 110mm horizontal.

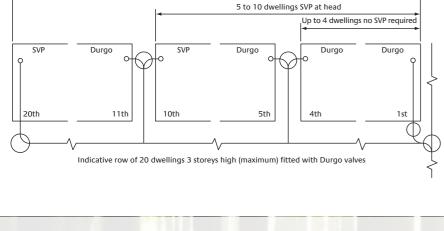
Where longer periods of fire resistance are required, Marley fire collars or pipe wraps can be fitted. For further details please refer to marleypd.co.uk

Tests carried out at FIRTO on a variety of typical sanitary pipework arrangements proved that it was possible to achieve up to 11/2 hour fire rating through a compartment floor without a fire collar or pipe wrap where the stack was terminated by an air admittance valve. Various other arrangements were also tested and achieved a minimum of 2 hours integrity.

The test work and technical evaluation was independently assessed by the British Board of Agrément who issued an Agrément Certificate. Copies of this original certificate and the detail sheets are available from Marley Plumbing &

The construction illustrated below achieved a 1½ hour fire resistance rating without the need for a fire resistance enclosure. The enclosure is necessary to achieve a 2 hour rating.





11 to 20 dwellings SVP at head and mid point

SVD4-110mm BASIN FLOOD LEVEL 0-----B1 rated valve fitted above flood level SF400 Coupling of basin or pipe socket SC45 Pipe clip B032V 110mm PVCu pipe Anti syphon bottle tran SVD3-82mm KR210 reducer A1 rated valve fitted below flood level SWCB90 SRM304 110x82mn 90° connector Level invert reducer 40mm dia SYS415 BATH/SHOWER 87.5° Branch KBA22 Low level 'p' trai KT21 45° tee KBA22/KB22 Collar boss

Typical fire collar installation



Remove retaining pin and position collar around pipe.



Fix using M8 x 65mm sleeve anchors of 50mm (min) expanding bolts.



Slide tab through slot in pipe collar and fold back 180° to secure



Completed installation.



Secure collar by drilling holes in structure.

For further details of Marley fire collars, please go to marleypd.co.uk



Jointing techniques

The ring seal has been successfully employed as the principal method of jointing large diameter PVCu pipes and fittings since their introduction over thirty years ago. This particular technique has proved extremely reliable as the joint can accommodate thermal movement that will occur as a result of temperature variations. An expansion gap of between 5-10mm should be allowed within each ring seal socket as each full length of pipe is installed and fixed using socket and barrel pipe clips.

Solvent weld jointing is also widely used and many components in the range are available with this facility to provide an effective alternative. By selecting these fittings a solvent weld system can be installed, however, ring seal joints must be incorporated to control thermal movement.

While the most popular method of jointing larger size PVCu pipes and fittings is by ring seal, with small diameter waste pipework the principal choice is usually solvent weld. Where this technique is used expansion couplings must be introduced where pipe lengths exceed 1.8 metres or between fixed points. The same principle should also be adopted when the polypropylene push-fit waste system is installed.

It should be noted that polypropylene cannot be solvent welded and together with the ABS waste system must not be fitted externally unless painted to protect it from ultra-violet degradation.

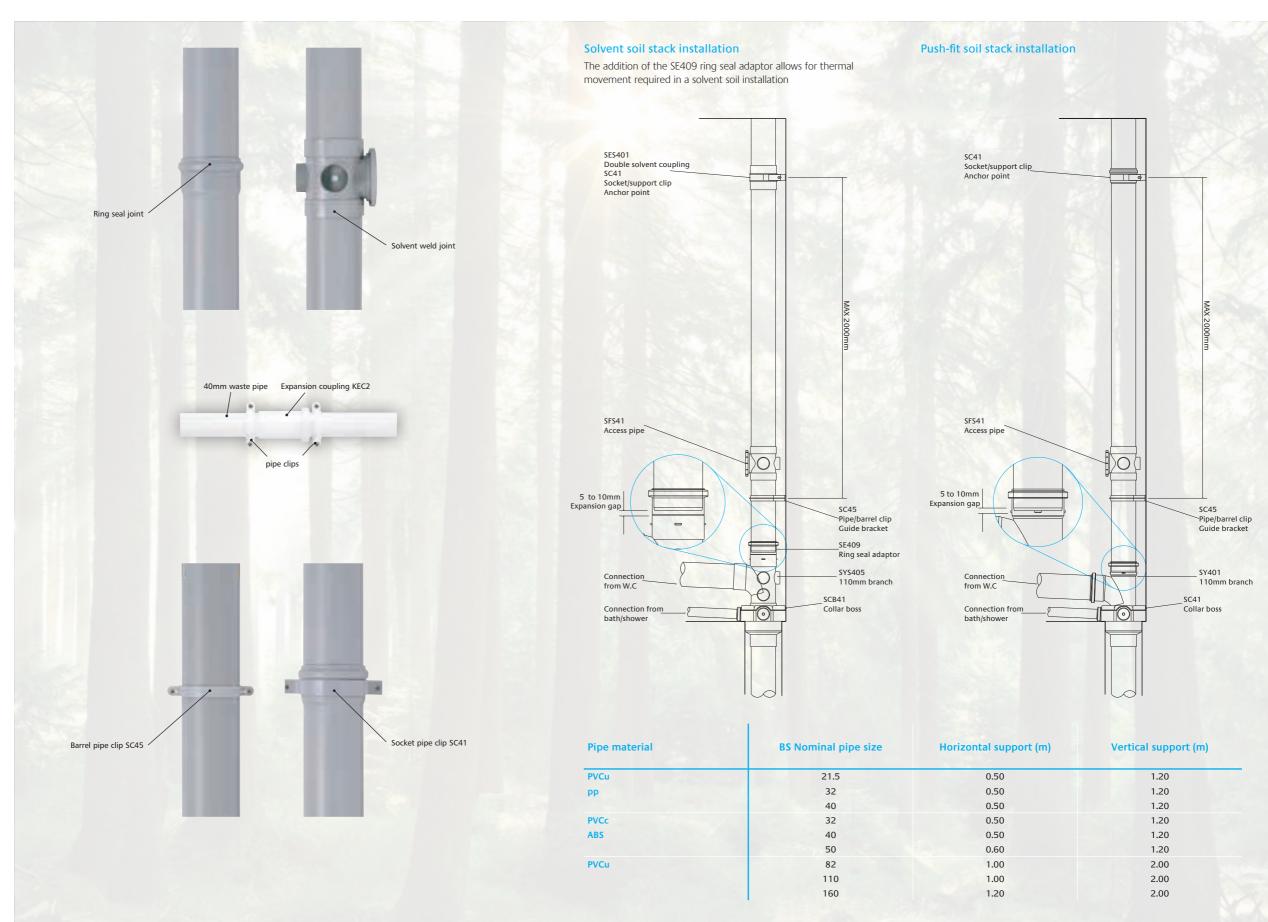
For installation using solvent cement please see marleypd.co.uk

Pipe support

Experience has proved that an efficient and reliable PVCu sanitary pipework system depends considerably on the attention that is placed on the correct provision of pipe support brackets. This is particularly important in multistorey buildings where care must be taken to ensure clips are positioned to control thermal movement at each floor level.

Plastic coated metal socket clips are designed to fit ring seal sockets and act as anchor brackets. These used in conjunction with PVCu intermediate pipe clips, control expansion and contraction and maintain the vertical alignment of the stack.

Two piece socket clips SC41/61 may be adapted to suit the appropriate pipe size by using a section of barrel clip collar SC621 to provide the necessary spacer sleeve. The table opposite indicates the maximum recommended support centres of different size plastic pipe systems.





Marley pipe support system

The Marley pipe support range was developed to meet the specific requirements of PVCu suspended sanitary pipework and drainage systems. Manufactured in zinc electro plated mild steel for internal use, the versatile range of components can be assembled to provide a robust, lightweight system suitable for most applications. The system also provides suitable control of expansion and contraction.

The arrangements of brackets and channel supports have been extensively tested and the assembly techniques used have been successfully employed on many domestic and commercial installations.

Single support

Recommended for waste or larger diameter pipework fixed within 500mm of the floor soffit.

Double support

Developed for use with larger diameter pipework fixed within 1.0m of the floor soffit.

Pipe brackets

The 110mm two piece pipe brackets are designed to fit round the ring seal socket of a pipe or fitting. Where intermediate support brackets are located, the SC621 PVC barrel clip collar is used as a spacer sleeve between the pipe and bracket.

Angle and side bracing

Angle braces should be provided at 6m centres to prevent lineal and thermal movement. Side bracing may also be necessary on long runs where there are no side connections to eliminate lateral movement.

Vertical pipes

The transition between vertical and horizontal pipework should be achieved using two 45° bends or a single 87½° long radius bend with a support bracket positioned as close as possible.

Branch connections

All branch connections into horizontal pipework should be made at 45° to ensure the discharge is swept in the direction of flow.

Structural fixings

It is recommended that 6mm rawlbolt or similar proprietary fixings are used to secure base plate and angle cleats to the structure.

Boss branches

The Marley range of boss branches are designed to allow multiple waste pipe connections to be made to the discharge stack from different directions. Four different side entry combinations are possible together with a rear if required. Staggered waste pipe connections, directly opposite are not permitted as cross-flow could occur.

Compatibility

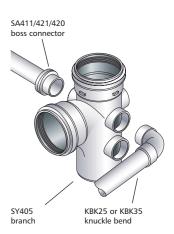
Boss pipes, boss connectors and strap-on bosses fitted with multi-fit 'T' ring seals are suitable for use with PVCc or ABS waste systems to BS EN 1566 or BS EN 1455-1, polypropylene to BS EN 1451-1 and metric size copper to BS EN 16090.

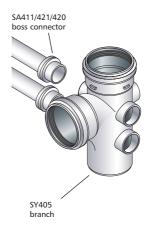
Un-perforated boss upstands on boss pipes, branches and reducers may be drilled to accept 32, 40 and 50mm boss connectors SA411, SA421 and SA420 using a 51mm diameter hole saw. Knuckle bends KBK25 and KBK35 may also be used as 90° boss connectors for 40 and 50mm PVCc or ABS waste pipework.

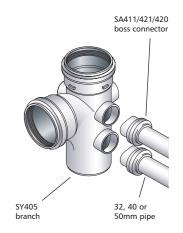
Horizontal connections

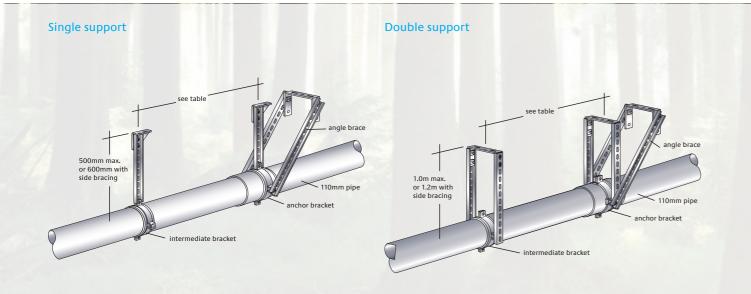
The SWS4135 boss pipe is recommended for use in horizontal situations where connections to 110mm diameter pipe is made at 45°. This fitting has a 50mm solvent weld socket to accept PVCc or ABS waste pipes.











Boss pipe connections

Four different types of fitting are available to provide alternative methods of connecting small diameter waste pipes to 82, 110 and 160mm vertical discharge stacks.

Single boss pipes.

Available with ring seal or solvent weld sockets for push-fit or solvent weld jointing, single boss pipes allow 32, 40 and 50mm waste pipe connections to be made at 871/2° direct to the vertical stack.

Multiple entry boss pipes.

Supplied in ring seal or solvent weld options, all have 90° boss upstands moulded on each fitting with one inlet port open. Connection is made using the appropriate size Marley boss connector to suit 32, 40 or 50mm waste pipes.



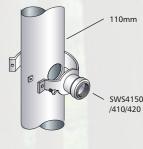
Strap-on-bosses.

Primarily designed to permit 32, 40 and 50mm waste pipe connections to be made to existing 110mm PVCu discharge stacks, strap-on-bosses can also be used on new systems to provide flexibility of installation during different stages of construction.



Patch bosses.

Suitable for solvent weld jointing to new and existing 82mm diameter PVCu discharge stacks to accept 32, 40 and 50mm size PVCc or ABS waste pipework.









MORE WC CONNECTORS FROM MULTIKWIK

Multikwik's comprehensive range of WC connectors is one of the largest on the market, and covers spigots of 74mm -114mm, ensuring an accurate fit, regardless of the make and model of sanitary chinaware.

For more information go to marleypd.co.uk



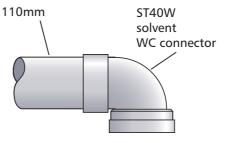
TRUST MULTIKWIK

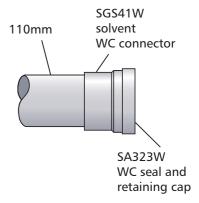
WC connections

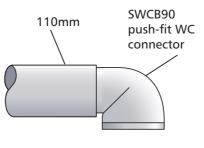
Two different types of connectors are available to allow connection to vitreous china or stainless steel WC pans, slop hoppers and other similar sanitary equipment. Manufactured in PVC and eva (ethylene vinyl acetate) to accommodate a range of outlet sizes between 84 and 110mm sanitary pipework or underground drainage.

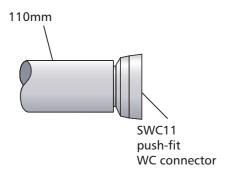
The 90° ST40W, ST41W and SG40W connectors are supplied complete with flexible seal and retaining cap. Where the SGS41W or STS41W pan connectors are used, the WC socket must be trimmed to suit the length of pan spigot before the SA323W is solvent welded in position.

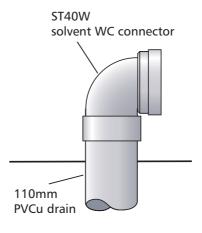
Ground floor toilets often have their own connection to the building drain to eliminate pipework and ducting. Where this occurs both types of connector are suitable for push-fit or solvent weld jointing to the 110mm PVC drain.

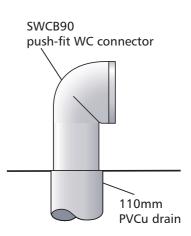












multikwik.com

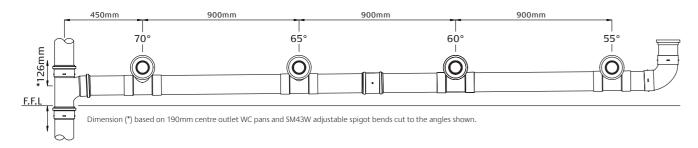
Site Work



WC manifold system

Up to six WCs can be connected to a soil stack using the WC manifold system and a single branch connection. By using a double branch connection, an additional six WCs can be connected. The table, right, details the angles of the manifolds for this installation.

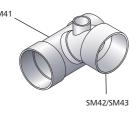
NUMBER	ANGLE OF MANIFOLD BRANCH					
OF WCs	WC 1	WC 2	WC3	WC4	WC 5	WC 6
6	80°	75°	70°	65°	60°	55°
5	75°	70°	65°	60°	55°	
4	70°	65°	60°	55°		
3	65°	60°	55°			
2	60°	55°				



1. Select the adjustable bend angle required from the above diagram according to the WC position. Cut the bend with a hacksaw, removing the unwanted portion.



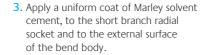
4. Assemble the branch immediately, insuring that the marked lines on the fitting coincide. Do not twist the two parts of the branch during this operation, but maintain steady pressure until the spigot of the bend comes to rest against the internal surface of the branch socket. Quickly wipe off any surplus solvent cement from the inside and outside of the completed joint and hold in position for approximately 15 seconds.

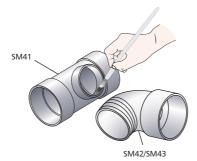


2. File away any rough edges from the face of the fitting and wipe clean the bend and branch, with a dry cloth. Before jointing, the bend and branch should be checked for position and alignment, both parts being marked to ensure accurate assembly.



5. Trim the WC socket to suit the toilet pan spigot length and remove any swarf with a file. Place the seal in the socket, apply a uniform coat of solvent cement about 15mm wide to the outside of the socket and inside the retaining cap. Push onto the socket and wipe off any surplus solvent cement.





To accommodate varying dimensions between the WC spigot and the centre line of the horizontal pipe run, the adjustable spigot bend SM43 or extension pipe SM45 can be used with WC connector SM44.



Inspection and testing

Inspection and testing should be carried out in accordance with BS 12056: 2000 and Building Regulations noting especially the details given in respect of air testing and the fact that smoke testing of plastics pipework should be avoided as the materials can be adversely affected.

Air test

The installation should be capable of withstanding an air test of positive pressure of at least 38mm water gauge for at least 3 minutes. During this time every trap should maintain a water seal of at least 25mm.

Handling

PVCu pipes are strong, though lightweight and therefore very easily handled. However, reasonable care should be exercised while handling, particularly in extremely cold conditions. Pipes should preferably be loaded and unloaded by hand but if mechanical handling is used. protected slings are recommended.

Maintenance

Provided that the system is designed and installed correctly, no maintenance will be required.

If blockage does occur, use only flexible or roller type rods. Pointed or bearing type metal fittings are not recommended. Tests have been carried out on PVCu pipes and fittings using equipment from specialist drain cleaning contractors and their standard equipment is suitable.

Safety

The relevant regulations are outlined in the Health and Safety At Work Act 1974 and The Construction (Design and Management) Regulations 1994 and should be followed. Hazard sheets, dealing with the correct storage, use, and any hazards of working with solvent cement, silicone lubricant and fire protection products are available from Marley Plumbing & Drainage.

Storage

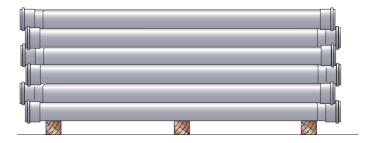
Pipes should be stacked on a reasonably flat, level surface on timber battens not less than 75mm wide spaced at a maximum of 1m centres. Side support should also be provided at intervals of not more than 1.5m.

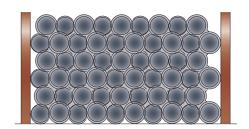
Different size pipes should be stacked separately. However, where this is not possible, larger diameter pipes should be placed at the bottom.

Spigot and socket pipes should be stacked separately. However, where this is not possible, larger diameter pipes should be stacked with

sockets at alternate ends protruding to ensure pipes are evenly supported along their length.

Pipes should not be stacked more than 7 high and when stored in the open for long periods, or exposed to strong sunlight, they should be covered with an opaque sheet. Fittings supplied in cardboard boxes or polythene bags should be stored under cover and kept packed until required. Solvent cement should be stored in a cool place out of direct sunlight and away from any heat source.







British & European Standards

BS EN 1329-1: 2014

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure – PVCu.

BS EN 1451-1: 2000

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - polypropylene.

BS EN 1519-1: 2000

Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - polyethylene.

BS 4514: 2001

Specification for PVCu soil and ventilating pipes, fittings and accessories.

BS EN 1566-1: 2000

Specification for thermoplastics waste pipe and fittings.

BS 5255: 1989

Specification for thermoplastics waste pipe and fittings.

BS EN 1455-1: 2000

Plastics piping systems for soil and waste (low and high temperature) within the building structure - ABS.

BS 5627: 1984

Specification for plastics connectors for use with horizontal outlet vitreous china WC pans.

BS EN 14680: 2006

Specification for adhesives for non-pressure thermoplastics pipe systems.

BS EN 681-1: 1996

Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Part 1 vulcanised rubber.

BS EN ISO 9001: 2008

Quality systems. Model for Quality Assurance in Design, Development, Production, Installation and Servicing.

BS EN ISO 14001: 2004

Environmental management systems. Requirements with guidance for use.

ABS = Acrylonitrile butadiene styrene PVCu = Poly vinyl chloride un-plasticised

PP = Polypropylene

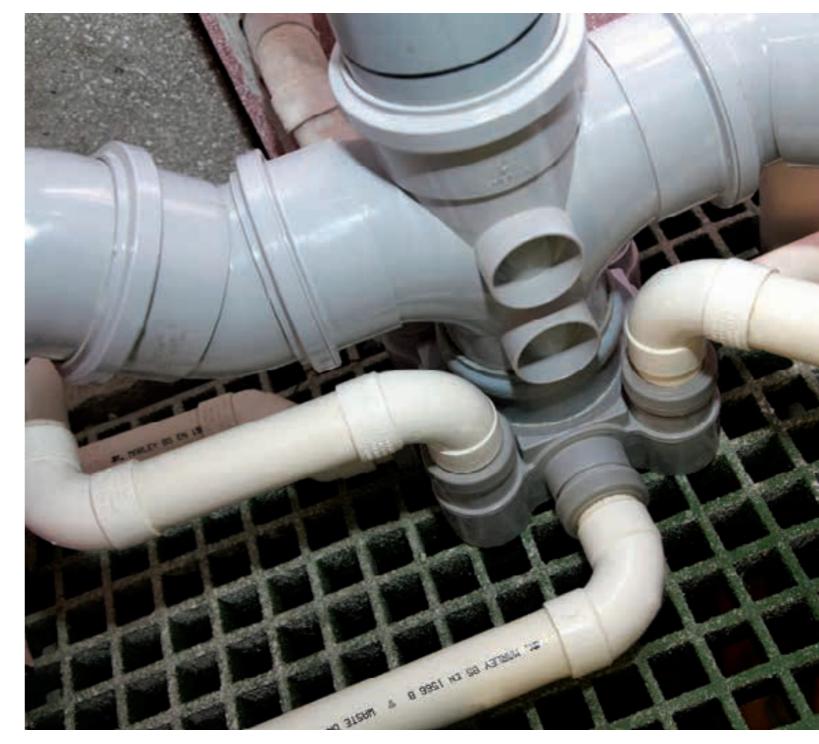
Accreditations











Technical Services: Here to help.

Years of experience mean that we can support you throughout your tender process and assist with any technical and installation requirements.

What technical services do we offer you?

Designing the most efficient drainage system for a project is a skill for which the Marley Technical Services team are renowned.

Marley Plumbing & Drainage provide technical support to all those involved with the specification and installation of their products.

Customers who made a commitment to use Marley Plumbing and Drainage products may benefit from the free design service which is offered for above ground drainage and rainwater systems.

For further information visit marleypd.com and select 'support and advice'.

Below are just a few examples of the technical services we offer:



ESTIMATES



COST REDUCTION



TECHNICAL O&A



FIELD AND SITE SUPPORT



SPECIFICATION







SPECIAL FABRICATIONS

FABRICATIONS





DESIGN SERVICES

MATERIAL TAKE-OFFS

















Marley system solutions





HDPE soil

Marley Akatherm HDPE is a drainage system which offers an alternative solution to cast iron. It is particularly suited for commercial applications or where a product with high impact or abrasion resistance is required, such as hospitals, hotels, schools, as well as residential buildings. HDPE will also cope with temperature variations of -40°C to 100°C making it ideal for external as well as internal installations.



Acoustic soil

An acoustic soil and waste range with a layered pipe providing quick, hygienic removal of sanitary waste water. The noise generated by the flow of water is dramatically reduced - making it perfect for multi-occupancy apartment blocks and high specification developments.



Marley rainwater

Five gutter profiles and three downpipe options provide a rainwater solution for any application. Advanced Life⁴ technology on four of the key profiles, coupled with the benefits of the Easyclip and notching capability combine to make the Marley rainwater range the most comprehensive available.



Marley underground systems

The Marley Plumbing & Drainage range of underground systems include the solid wall range, predominately for round the house drainage and Quantum structured wall range for sewer and highway drainage applications.



Alutec offer modern and traditional aluminium rainwater profiles, providing solutions for any type of building. Aluminium has high visual appeal and durability, lasting for 50 years or more. The product portfolio includes Evolve; easy to install, low cost gutter systems in four profiles. The rainwater ranges are complemented by aluminium soffit and fascia systems and roof & floor outlets.



Multikwik

The Multikwik brand is known and trusted by plumbers for its sanitary frames, cisterns, traps, compression waste systems and market leading range of pan connectors. Complementing the Marley range it provides an excellent solution to modern bathroom design with a wide choice of product options.



marleypd.co.uk

For general enquiries and details of your nearest stockist please call the customer services department:

Tel: 01622 852585

Email: marketing@marleypd.com

To place an order

For delivery to **England & Wales**

Email: orders.lenham@marleypd.co.uk

Fax: 01622 851111
For delivery to **Scotland**

Email: orders.uddingston@marleypd.co.uk

Fax: 01698 810307

For all estimate requests

Email: estimates@marleypd.co.uk

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