

HARMER

BUILDING DRAINAGE

HARMER SML SOCKETLESS SOIL & WASTE SYSTEM

A market leading above and below ground cast iron soil and waste system with a comprehensive range of pipes, fittings and accessories which are fully compliant with BS EN 877 and CE mark conformity.



The Harmer SML above and below ground lightweight cast iron pipework system is a dry-jointed pipework system at the leading edge of cast iron technology. BBA Agrément Certified and fully compliant with BS EN 877 and with CE Mark conformity. With its comprehensive range of fittings and accessories, SML is the ideal soil and waste system which can also be used for rainwater installations.

Applications

- A complete internal soil and waste pipework system from rain to drain
- Covers installation from pipework connection to stacks and underground sewer connections
- Also suited to rainwater installations in conjunction with Harmer Roof Outlets
- Pipes available in standard 3m lengths, in diameters of 50mm to 400mm
- Choice of ductile or stainless steel couplings

Performance

- Agrément certified no. 05/4191 (above) and meets European Standard BS EN 877
- CE Mark: European product conformity to harmonised standard BS EN 877 in accordance with Construction Products Regulation 2013
- Kitemark accreditation (KM 613802) compliance in accordance with BS EN 877: +A1: 2006
- Lightweight, strong and durable
- Excellent noise attenuation, tested to BS EN 14366: 2004
- Non-combustible - fire protection collars not necessary
- High tensile strength
- Inherent resistance to external accidental damage and vandalism
- Quick to assemble
- 100% recyclable

Installation & Fixing

- Assembled by means of twin THREADED couplings
- Secure socketless fixing between pipe and fitting
- No special installation equipment required
- Epoxy coatings ensure pipes and fittings need minimal maintenance over lifetime of installation

Materials & Finishes

- Pipes and fittings manufactured in grey iron to DIN 1691 (exceeds BS 1452 Grade 150 ISO 185 Grade 15)
- Couplings are manufactured in stainless steel and ductile cast iron
- Above ground pipes exterior have a primer coat, minimum thickness 40 µm
- Below ground pipes exterior have a thermal spray zinc coating, surface density at least 130g/m²
- Pipes interior have an epoxy coating with a minimum thickness of 120 µm
- Fittings are coated externally and internally with an epoxy coating, minimum thickness 60 µm



LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		PIPES AND COUPLINGS				
Description	Dia	Code	List Price £	Code	List Price £	
PIPES (3m Length)						
Above Ground			Below Ground			
	50	660004	75.92			
	70	660094	86.87			
	100	660184	103.17	232055	134.33	
	125	660274	168.32			
	150	660364	202.85	232057	266.82	
	200	660454	339.14	232058	451.75	
	250	660654	491.18	232095	664.58	
	300	660664	610.72	232097	827.75	
	400	660604	1,292.26	232100	1,257.62	
DUO COUPLING						
	50	3140/50	10.78			
	70	3140/70	11.93			
	100	3140/100	15.57	3140/100	15.57	
	125	3140/125	23.86			
	150	3140/150	31.18	3140/150	31.18	
	200	3140/200	69.62	3140/200	69.62	
	250	3140/250	117.29	3140/250	117.29	
	300	3140/300	124.24	3140/300	124.24	
	400			100307	528.85	
* Supplied as standard with electrical continuity spur.						
TWO PART DUCTILE IRON COUPLING						
	50	235849	11.46			
	70	235526	12.66			
	100	235537	17.55	235359	22.60	
	150	235358	33.44	235362	46.22	
	200	235527	74.09	235363	103.10	
GRIP COUPLING						
	50	3176/50	19.10			
	70	3176/70	23.44			
	100	3176/100	29.24			
	125	3176/125	29.77			
	150	3176/150	50.62			
	200	3176/200	105.88			
RAPID COUPLING WITH COMBI GRIP COLLAR						
	50	218592/COMBI	39.06			
	70	218593/COMBI	42.80			
	100	214405/COMBI	44.52			
	125	218594/COMBI	64.39			
	150	218595/COMBI	73.71			
	200	659556/COMBI	122.05			






LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		COUPLINGS AND BRACKETRY				
Description	Dia	Code	List Price £	Code	List Price £	
AXILOCK S HIGH PRESSURE COUPLINGS						
Above Ground			Below Ground			
	50	ALS050	167.81			
	70	ALS070	173.71			
	100	ALS100	189.53			
	125	ALS125	319.40			
	150	ALS150	368.55			
	200	ALS200	697.55			
	250	ALS250	746.50			
	300	ALS300	1,147.77			
	400	ALS400	1,359.62			
	DUCTILE BRACKET					
	50	DB050	10.42			
	70	DB070	10.42			
	100	DB100	11.97	DB100BG	13.47	
	150	DB150	22.38	DB150BG	25.54	
	200	DB200	83.03	DB200BG	97.59	
	ADAPTOR COUPLINGS					
	70	3151/070075	24.54			
	100	3102/100	33.67			
	150	3102/150	74.04			
Note: Adapts lightweight 'soil' to conventional drain'.						
OPTIMAL BRACKET						
	50	220012	7.66			
	70	220013	10.11			
	100	220014	12.52			
	125	220015	19.20			
	150	220016	22.63			
	200	220011	33.22			
STANDPIPE SUPPORT BRACKET						
	70	3363070	71.39			
	100	3363100	54.38			
	125	3363125	94.63			
	150	3363150	78.11			







LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		BRACKETRY			
Description	Dia	Code	List Price £	Code	List Price £
Pipe Support Bracket					
			Above Ground		
	50	666365	110.46		
	70	666385	114.80		
	100	666395	121.30		
	125	666435	129.96		
	150	666445	145.13		
OPTIMAL HD BRACKET					
			Above Ground		Below Ground
	100	33143116	23.92		
	125	33143140	38.15		
	150	33143169	43.02		
	200	33143213	43.17		
	250	33163275	76.67		
	300	33163325	103.99		
BRACKET ACCESSORIES					
	Acoustic Dampener (db-fix)	6697005	63.33		
STACK PIPE SUPPORT BRACKET - For vertical pipework applications					
	70	4323/70	40.46		
	100	4323/100	57.49		
	125	4323/125	61.77		
	150	4323/150	68.09		
	200	4323/200	69.93		


LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		BENDS				
Description	Dia	Code	List Price £	Code	List Price £	
SINGLE BEND						
			Above Ground		Below Ground	
	15°	50	661004	19.10		
		70	661064	21.72		
		100	661124	25.60	232059	30.25
		125	661184	45.19		
		150	661244	46.39	232065	54.33
	30°	50	661014	19.10		
		70	661074	21.72		
		100	661134	25.60	232060	30.25
		125	661194	45.19		
		150	661254	46.39	232066	54.33
	45°	50	661024	19.10		
		70	661084	21.72		
		100	661144	25.60	232061	30.25
		125	661204	45.19		
		150	661264	46.39	232067	54.33
	68°	200	661324	131.80	232070	157.71
		250	661374	263.77	232103	314.86
		300	661394	370.25	232104	428.31
		400*	661284	838.94		
		50	661034	19.10		
	88°	70	661094	21.72		
		100	661154	25.60		
		125	661214	45.19		
		150	661274	46.39		
		200	661334	131.80		
	50	661054	19.10			
	70	661114	21.72			
	100	661174	25.60			
	125	661234	45.19			
	150	661294	46.39			
	200	662784	131.80			
	250	233621	439.21			
	300	233622	487.12			



LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		BENDS AND OFFSETS				
Description	Dia	Code	List Price £	Code	List Price £	
REST BEND		Above Ground		Below Ground		
	100	100263	99.91	232110	87.98	
	150			232150	216.89	
LONG TAIL DOUBLE BEND						
	88°	70	662734	70.29		
		100	662744	77.29		
		125	662754	112.89		
		150	662764	162.98		
LONG AND MEDIUM BEND						
	22° Long Radius Bend	100		21210022	53.78	
	45° Medium Radius Bend	100		21210045	53.39	
		150		21215045	132.84	
	88° Long Radius Bend	100	235125L	81.34	232105	70.93
	Medium Radius Bend	150	235126L	205.23	232106	212.96
SHORT DOUBLE BEND						
	88°	50	661484	26.32		
		70	661494	37.87		
		100	661504	61.41		
		125	661514	93.09		
		150	661524	129.27		
BEND WITH LONG TAILS						
	45°	70	662054	42.97		
		100	662074	45.19		
	88°	70	662064	42.97		
		100	662084	45.19		
	135°	100	662774	82.56		
OFFSET						
	65mm	100	662864	54.33		
	130mm	100	662874	65.03		
	200mm	100	662884	74.69		
CLEANING ARM						
	45°	100		212100CA	150.88	






LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)



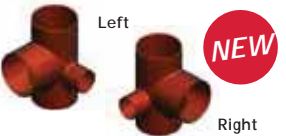



HARMER SML		BRANCHES				
Description	Dia	Code	List Price £	Code	List Price £	
SINGLE BRANCHES		Above Ground		Below Ground		
	45°	50 x 50	664004	31.04		
		70 x 50	663034	32.92		
		70 x 70	663064	32.92		
		100 x 50	663094	44.20		
		100 x 70	663124	44.20		
		100 x 100	663154	41.26	232077	48.73
		125 x 50	663184	53.22		
		125 x 70	663214	68.19		
		125 x 100	663244	98.41		
		125 x 125	663274	98.41		
		150 x 70	663334	98.43		
		150 x 100	663364	96.51	232080	114.49
		150 x 125	663394	120.06		
		150 x 150	663424	97.65	232082	117.66
		200 x 70	663484	183.78		
		200 x 100	663514	247.03	232083	295.72
		200 x 125	663544	247.03		
		200 x 150	663574	244.32	232085	295.72
		200 x 200	663604	265.48	232086	317.88
		250 x 100	663634	572.33		
	250 x 125	664504	572.33			
	250 x 150	664514	571.21			
	250 x 200	663644	591.19			
	250 x 250	663654	591.19	232111	709.26	




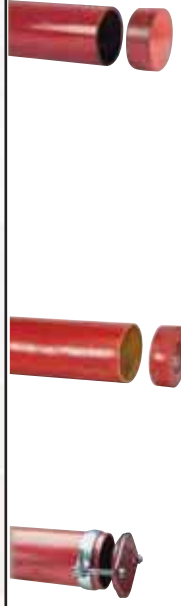
LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		BRANCHES					
Description	Dia	Code	List Price £	Code	List Price £		
SINGLE BRANCHES continued		Above Ground		Below Ground			
	45°	300 x 100	663664	696.22			
		300 x 125	664524	709.16			
		300 x 150	664534	685.20			
		300 x 200	664444	764.49			
		300 x 250	663674	764.49			
		300 x 300	663684	764.49	232112	1,023.13	
		400* x 300	663694	1,326.07			
	68°	50 x 50	663014	31.04			
		70 x 50	663044	32.92			
		70 x 70	663074	32.92			
		100 x 50	663104	44.20			
		100 x 70	663134	44.20			
		100 x 100	663164	44.20			
		125 x 50	663194	53.22			
		125 x 100	663254	98.41			
		150 x 100	663374	98.43			
		150 x 125	663404	120.06			
	*400mm dia single branch is available on request						

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		BRANCHES				
Description	Dia	Code	List Price £	Code	List Price £	
SINGLE BRANCHES continued		Above Ground		Below Ground		
	88°	50 x 50	663024	31.04		
		70 x 50	663054	32.92		
		70 x 70	663084	32.92		
		100 x 50	663114	44.20		
		100 x 70	663144	44.20		
		100 x 100	663174*	41.78	232113	48.73
		125 x 50	663204	53.22		
		125 x 70	663234	68.19		
		125 x 100	663264	98.43		
		125 x 125	663294	98.43		
		150 x 50	663324	98.43		
		150 x 100	663384	98.43	232114	95.43
		150 x 125	663414	120.06		
	150 x 150	663444	99.62	232115	106.06	
*Note: product code 663174 is available with a 250mm long spigot and when this is required the code becomes 664454.						
DOUBLE BRANCHES						
	45°	100 x 100 x 100	100260	68.62	232117	70.78
		150 x 100 x 100	661444	178.23	232118	205.15
		150 x 150 x 150			15015045D	276.41
	68°	100 x 100 x 100	663864	59.73	232116	77.56
		125 x 100 x 100	663954	115.45		
	88°	100 x 50 x 50	663814	44.20		
		100 x 70 x 70	663844	44.20		
		100 x 100 x 100	663874	59.48	232119	67.17
		150 x 100 x 70	664184	POA		
		150 x 100 x 100	664084	157.23		
SWEPT DOUBLE BRANCHES						
		100 x 100 x 100	100264	75.19		

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)					
HARMER SML		BRANCHES, ACCESS PIPES AND BENDS			
Description	Dia	Code	List Price £	Code	List Price £
SWEPT ENTRY BRANCHES		Above Ground		Below Ground	
 88° Without Access With Access	100	663174S	54.69		
	150	235684	179.67		
	100	663174SA	94.31	232131	93.40
CORNER BRANCHES					
 88° ** Note: product code 662034 is available with a 250mm long spigot and when this is required the code becomes 664464.	100 x 70 x 70	662044	130.94		
	100 x 100 x 100	662034**	107.96		
	125 x 100 x 100	662014	159.57		
	150 x 100 x 100	664434	159.57		
ASYMMETRICAL CORNER BRANCHES					
 Left NEW Right	100 x 100 x 50	662024	112.55		
	100 x 100 x 50	662114	112.55		
COMBINATION BRANCHES					
 90°	100 x 70 x 100	665834	149.72		
	100 x 100 x 100	665924	149.72		
ACCESS PIPES					
 Round Rectangular	50	669580	51.00		
	70	669583	54.29		
	100	669586	57.18	232134	67.34
	100	669624	69.39	232096	134.78
	125	669627	109.99		
	150	669630	158.75	232099	210.91
	200	669633	358.87	232101	424.05
	250	669612	564.09	232137	688.41
	300	669615	701.81	232140	822.10
	ACCESS BEND				
 88° Long	100	661174A	61.96		
	150	232741	123.33		
	100	661174AL	80.16	232109	93.54

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)					
HARMER SML		BOSS PIPES AND END CAPS			
Description	Dia	Code	List Price £	Code	List Price £
BOSS PIPES		Above Ground		Below Ground	
 88° Single B (Bossed)	50 x 2" BSP	240581	42.79		
	70 x 2" BSP	663054B	42.79		
	100 x 2" BSP	663114B	53.52		
 DB (Double Bossed)	150 x 2" BSP	232746	111.88		
	100 x 2" BSP	663114DB	137.26		
 CB (Corner Bossed)	150 x 2" BSP	237738	136.16		
	100 x 2" BSP	663114CB	187.96		
END CAPS					
 Blank Ends Tapped Plug	50	665504	7.83		
	70	665514	8.21		
	100	665524	9.65	232091	11.28
	125	665534	13.64		
	150	665544	13.88	232093	16.10
	200	665554	65.68	232094	71.97
	250	665564	134.08	232126	146.45
	300	665574	170.83	232127	183.77
	50	665504TE	14.19		
	70	665514TE	23.30		
100	665524TE	25.44			
150	665544TE	30.00			
200	665554TE	129.24			
100	664804	41.36			
125	664814	52.15			
150	664824	62.75			
200	664834	143.44			

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML

REDUCERS AND SUPPORTS

Description	Dia	Code	List Price £	Code	List Price £
-------------	-----	------	--------------	------	--------------

REDUCERS	Above Ground			Below Ground	
----------	--------------	--	--	--------------	--



70 x 50	662504	27.59		
100 x 50	662514	34.61		
125 x 50	662534	27.59		
150 x 50	662564	40.95		
100 x 70	662524	34.61		
125 x 70	662544	34.61		
150 x 70	662574	66.32		
125 x 100	662554	34.61		
150 x 100	662584	66.32	232072	72.26
200 x 100	662604	108.43	232074	128.45
150 x 125	662594	66.32		
200 x 125	662614	108.43		
200 x 150	662624	108.43	232076	128.45
250 x 150	662634	223.35	232120	264.66
300 x 150	662494	305.33	232122	368.40
250 x 200	662644	245.88	232121	264.66
300 x 200	662714	305.33	232123	368.40
300 x 250	662724	305.33	232124	368.40
400 x 300	662444	335.59		

DOWNPIPE SUPPORTS



50	661544	35.40		
70	661554	41.71		
100	661564	46.37		
125	661574	51.42		
150	661584	73.39		
200	661594	108.18		
250	661604	334.43		
300	661614	416.30		

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML

RINGS & CONNECTORS

Description	Dia	Code	List Price £
-------------	-----	------	--------------

BEARING RINGS	Above Ground		
---------------	--------------	--	--



50	666314	38.91
70	666324	45.25
100	666334	52.28
125	666344	57.44
150	666354	80.01
200	666374	108.18

SLEEVED CONNECTOR



100	662194	81.99
125	662204	94.16
150	662214	106.55




STONEWARE CONNECTOR




100	664924	59.00
125	664934	89.44
150	664944	118.65
200	664954	219.60







Note: For stoneware connection to Harmer SML pipes use the 'A' ring coupling. For connection from Harmer SML to stoneware with a female end pipe use the 'O' ring coupling.

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		CONNECTORS, FLANGES, TRAPS AND MANIFOLDS			
Description	Dia	Code	List Price £	Code	List Price £
FLANGED CONNECTORS					
Above Ground			Below Ground		
	100	665934	228.82		
	125	665944	288.80		
	150	665954	346.79		
	200	665964	543.81		
PIPE WITH WALL FLANGE					
	100	662224	202.18		
RAINWATER STENCH TRAPS					
	70	669557	410.87		
	100	669558	498.49		
	125	669559	743.61		
	150	669560	804.29		
BRANCH TRAPS					
	50	669562	116.20		
	70	669563	159.32		
	100	669564	176.84		
	125	669565	320.43		
	150	669566	350.48		
	200	669567	915.88		
PLAIN TRAP					
	100	100261	62.23	232125	56.05
MANIFOLD					
	100/4 x 42	214089	123.04		
	150/3 x 42	240417	150.17		

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML		COUPLINGS & JOINTS			
Description	Dia	Code	List Price £	Code	List Price £
KONFIX WASTE ADAPTOR					
Above Ground			Below Ground		
	50	100270	25.40		
	70	100271	36.19		
	100	100272	46.98		
	100*	100030	88.80		

ROUND INSPECTION CHAMBERS		Above Ground		Below Ground	
	Round	100 x 100 x 45		GCSR/100100	310.11
		150 x 100 x 45		GCSR/150100	401.88
		150 x 150 x 45		GCSR/150150	509.91
SQUARE AND RECTANGULAR SINGLE AND DOUBLE INSPECTION CHAMBERS					
	*Square	100 x 100 x 100		SSC100100	364.46
		150 x 100 x 100		SSC150100	472.21
		150 x 150 x 150		SSC150150	599.19
	*Rectangular	100 x 100 x 100		DRC100100	717.46
		150 x 100 x 100		DRC150100	958.99
		150 x 150 x 150		DRC150150	1,196.50
BELLMOUTH GULLIES					
	100			BG100	62.14
	150			BG150	102.20
BELLMOUTH SOLID PLATE					
	200			BMSP200	21.09
BELLMOUTH GRATE					
	200			BMG200	14.40
PUDDLE FLANGES					
	100			PF100	74.33
	150			PF150	96.76

LIGHTWEIGHT CAST IRON SOIL AND WASTE SYSTEM (ABOVE & BELOW)

HARMER SML

TOOLS & TOUCH UP PAINT

Description	Dia	Code	List Price £	
FIXING TOOLS				
		Above Ground		
 <p>1/2" Drive Tools</p>	Harmer Duomat Fixing Tool - 9Nm torque setting	3900	252.59	
	Ratchet Handle 1/2" Drive	110000	134.37	
	Torque Wrench 1/2" Drive - 4Nm - 40Nm torque range	110001	203.71	
	10mm 1/2" Drive Socket	110007	14.65	
	13mm 1/2" Drive Socket	110002	16.04	
	18mm 1/2" Drive Socket	110003	16.04	
	19mm 1/2" Drive Socket	110004	16.04	
	5mm Allen Key 1/2" Drive Socket	110008	17.87	
	6mm Allen Key 1/2" Drive Socket	110005	21.69	
	8mm Allen Key 1/2" Drive Socket	110013	23.39	
	10mm Allen Key 1/2" Drive Socket	110012	24.62	
	14mm Allen Key 1/2" Drive Socket	110014	26.00	
	10mm Flat Bit with 5/16" Hexagonal Shank	110006	11.40	
 <p>3/8" Drive Tools</p>	Torque Wrench 3/8" drive - 4Nm - 20Nm torque range	110009	230.05	
	5mm Allen Key 3/8" Drive Socket	110010	17.32	
	6mm Allen Key 3/8" Drive Socket	110011	21.05	
TOUCH UP PAINT				
		Above Ground	Below Ground	
	125ml Above Ground Touch Up Paint	TUPCI/RAL3009/125	TUPCI/RAL8011/125	20.47
	1 litre Below Ground Touch Up Paint	TUPCI/RAL3009	TUPCI/RAL8011	73.65