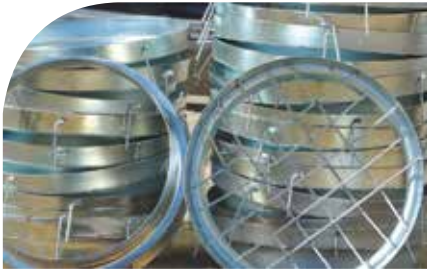


# PRODUCT CATALOGUE





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## Interlocking Joint Pipes - SANS 677

Class	50 D Pipe						
	Nominal Diameter (ND)	Inside Diameter (ID)	Outside Diameter (OD)	Wall Thickness (T)	Nominal Length (L)	Approximate Mass per metre	Approximate Mass per pipe
	mm	mm	mm	mm	m	kg / m	kg / pipe
	300	292	362	35	2.5	93	233
	375	369	445	38	2.5	125	313
	450	445	533	44	2.5	175	438
	525	534	616	41	2.5	191	478
	600	611	699	44	2.5	234	585
	675	689	795	53	2.5	318	795
	750	762	870	54	2.5	357	893
	825	844	960	58	2.5	417	1043
	900	915	1041	63	2.5	493	1233
	1050	1034	1194	80	2.5	725	1813
	1200	1162	1340	89	2.5	915	2288
	1350	1304	1500	98	2.5	1133	2833
	1500	1431	1660	114	2.5	1455	3638



30  
SANS 617

500 750 SC

## Interlocking Joint Pipes - SANS 677

Class	75 D Pipe						
	Nominal Diameter (ND)	Inside Diameter (ID)	Outside Diameter (OD)	Wall Thickness (T)	Nominal Length (L)	Approximate Mass per metre	Approximate Mass per pipe
	mm	mm	mm	mm	m	kg / m	kg / pipe
	300	292	362	35	2.5	93	233
	375	369	445	38	2.5	125	313
	450	445	533	44	2.5	175	438
	525	574	616	51	2.5	234	585
	600	585	699	57	2.5	297	743
	675	655	795	70	2.5	407	1018
	750	718	870	76	2.5	487	1218
	825	802	960	79	2.5	555	1388
	900	865	1041	88	2.5	671	1678
	1050	986	1194	104	2.5	910	2275
	1200	1108	1340	104	2.5	1058	2645
	1350	1268	1500	116	2.5	1323	3308
	1500	1389	1660	135	2.5	1700	4450



## Interlocking Joint Pipes - SANS 677

Class	100 D Pipe						
	Nominal Diameter (ND)	Inside Diameter (ID)	Outside Diameter (OD)	Wall Thickness (T)	Nominal Length (L)	Approximate Mass per metre	Approximate Mass per pipe
	mm	mm	mm	mm	m	kg / m	kg / pipe
	300	292	362	35	2.5	93	233
	375	369	445	38	2.5	125	313
	450	445	533	44	2.5	175	438
	525	574	616	51	2.5	234	585
	600	585	699	57	2.5	299	748
	675	655	795	70	2.5	407	1018
	750	718	870	76	2.5	487	1218
	825	802	960	79	2.5	555	1388
	900	865	1041	88	2.5	671	1678
	1050	986	1194	104	2.5	910	2275
	1200	1108	1340	116	2.5	1100	2750
	1350	1235	1500	131	2.5	1479	3698
	1500	1353	1660	153	2.5	1904	4760



We manufacture special products to your design.

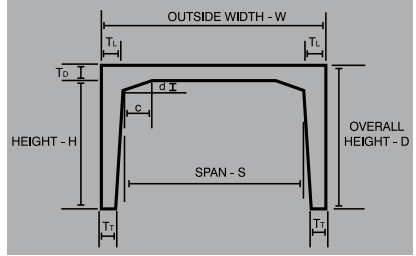




## Manhole Rings // Cover Slabs // Lids

SANS 1294 : 2006						
Manhole Rings	Nominal Diameter (ND)	Inside Diameter (ID)	Outside Diameter (OD)	Wall Thickness (T)	Nominal Length (L)	Approximate Mass per each
	mm	mm	mm	mm	mm	kg / each
	750	750	860	55	135	67
		750	860	55	250	90
		750	860	55	500	180
		750	860	55	1000	360
	1000	1000	1127	64	135	82
		1000	1127	64	250	140
		1000	1127	64	500	281
		1000	1127	64	1000	561
	1250	1250	1400	75	135	110
		1250	1400	75	250	203
		1250	1400	75	500	406
		1250	1400	75	1000	810
	1500	1500	1689	83	135	143
		1500	1689	83	250	263
		1500	1689	83	500	527
		1500	1689	83	1000	1054
Cover Slabs	Diameter mm		Thickness mm		Approximate Mass kg	
	750		150		120	
	1000		150		272	
	1250		150		476	
	1500		175		769	
Lids	Diameter		Thickness mm		Approximate Mass kg	
	HD Lid		125		95	
	Lockable Lid		125		95	

RECTANGULAR PORTAL CULVERT DIMENSIONS: SANS 986



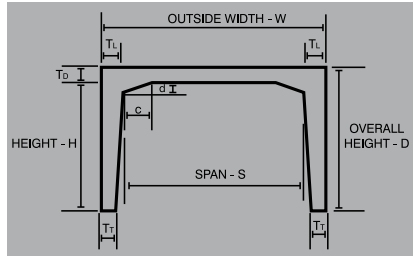
## Rectangular Portal Culverts - SANS 986

Length 1.22												
Nominal Size		Dimensions								Approximate Mass		
Span	x Height	Class	T d	T L	T t	W	D	c	d	Water Way Area	per m kg / m	per unit kg / unit
mm	mm		mm	mm	mm	mm	mm	mm	mm	m <sup>2</sup>		
450	x 225	200s	80	80	72.5	610	305	75	25	0.101	212	255
450	x 300		80	80	70	610	380	75	25	0.136	239	287
450	x 450		80	80	65	610	530	75	25	0.207	290	348
600	x 300	200s	90	90	80	780	390	100	33	0.180	311	379
600	x 450		90	90	75	780	540	100	33	0.273	369	450
600	x 600		90	90	70	780	690	100	33	0.369	424	517
750	x 300	175s	100	100	90	950	400	125	42	0.223	393	479
750	x 450		100	100	85	950	550	125	42	0.339	459	560
750	x 600		100	100	80	950	700	125	42	0.457	521	636
750	x 750		100	100	75	950	850	125	42	0.576	579	706
900	x 300	175s	105	105	95	1110	405	150	50	0.266	460	561
900	x 450		105	105	90	1110	555	150	50	0.404	530	647
900	x 600		105	105	85	1110	705	150	50	0.545	595	726
900	x 750		105	105	80	1110	855	150	50	0.686	657	802
900	x 900		105	105	75	1110	1005	150	50	0.830	715	872
1200	x 300	150s	120	120	110	1440	420	200	67	0.35	638	778
1200	x 450		120	120	105	1440	570	200	67	0.533	718	876
1200	x 600		120	120	100	1440	720	200	67	0.719	795	970
1200	x 750		120	120	95	1440	870	200	67	0.905	868	1059
1200	x 900		120	120	90	1440	1020	200	67	1.094	938	1144
1200	x 1200		120	120	80	1440	1320	200	67	1.475	1065	1299

Base Slabs	Culvert Span	Approximate Mass Kg Per Metre	Approximate Mass Kg Per Unit
	600mm	215	262
	750mm	297	362
	900mm	400	488
	1200mm	574	700

RECTANGULAR PORTAL CULVERT DIMENSIONS: SANS 986



## Rectangular Portal Culverts - SANS 986

Rectangular Portal Culverts - SANS 986												
Length 1.22												
Nominal Size		Dimensions									Approximate Mass	
Span	x Height	Class	T d	T L	T t	W	D	c	d	Water Way Area	per m kg / m	per unit kg / unit
mm	mm		mm	mm	mm	mm	mm	mm	mm	m <sup>2</sup>		
1500	x 300	100s	135	135	125	1770	435	250	83	0.432	844	1030
1500	x 450		135	135	120	1770	585	250	83	0.661	936	1142
1500	x 600		135	135	115	1770	735	250	83	0.891	1024	1249
1500	x 900		135	135	105	1770	1035	250	83	1.356	1189	1451
1500	x 1200		135	135	95	1770	1335	250	83	1.827	1339	1634
1500	x 1500		135	135	85	1770	1635	250	83	2.304	1474	1798
1800	x 600	75s	150	150	130	2100	750	300	100	1.062	1283	1565
1800	x 900		150	150	120	2100	1050	300	100	1.617	1470	1793
1800	x 1200		150	150	110	2100	1350	300	100	2.178	1643	2004
1800	x 1500		150	150	100	2100	1650	300	100	2.745	1800	2196
1800	x 1800		150	150	90	2100	1950	300	100	3.318	1943	2370
2100	x 600	75s	165	165	145	2430	765	350	117	1.231	1569	1914
2100	x 900		165	165	135	2430	1065	350	117	1.876	1779	2170
2100	x 1200		165	165	125	2430	1365	350	117	2.527	1974	2408
2100	x 1500		165	165	115	2430	1665	350	117	3.184	2154	2628
2100	x 1800		165	165	105	2430	1965	350	117	3.847	2319	2829
2100	x 2100		165	165	95	2430	2265	350	117	4.516	2469	3012
2400	x 600	75s	180	180	160	2760	780	400	133	1.399	1885	2262
2400	x 900		180	180	150	2760	1080	400	133	2.134	2118	2584
2400	x 1200		180	180	140	2760	1380	400	133	2.875	2335	2849
2400	x 1500		180	180	130	2760	1680	400	133	3.622	2538	3096
2400	x 1800		180	180	120	2760	1980	400	133	4.375	2725	3325
2400	x 2100		180	180	110	2760	2280	400	133	5.134	2898	3536
2400	x 2400		180	180	100	2760	2580	400	133	5.899	3055	3727
Base Slabs	Culvert Span	Approximate Mass Kg Per Metre					Approximate Mass Kg Per Unit					
	1500mm	748					913					
	1800mm	949					1158					
	2100mm	1158					1413					
	2400mm	1443					1760					

## SATS SAR Rectangular Portal Culverts - 0.3 to 5.0

### RECTANGULAR PORTAL CULVERTS TO SATS CODE OF 1983 + IDEAL DIMENSIONS FOR Z = 0.3 TO 5.0

Length 1.22											
Nominal Size	Dimensions									Approximate Mass	
	Span x Height mm x mm	Class	Td mm	TL mm	Tt mm	W mm	D mm	c mm	d mm	W WAY m <sup>2</sup>	kg/m
900 x 300	0.3-5.0	160	105	95	1110	460	125	50	0.267	610	732
900 x 450		160	105	90	1110	610	125	50	0.406	679	815
900 x 600		160	105	85	1110	760	125	50	0.546	745	894
900 x 750		160	105	80	1110	910	125	50	0.688	807	968
900 x 900		160	105	75	1110	1060	125	50	0.831	865	1038
1200 x 450		170	120	105	1440	620	150	67	0.537	890	1068
1200 x 600		170	120	100	1440	770	150	67	0.722	967	1160
1200 x 1200		170	120	80	1440	1370	150	67	1.478	1237	1484
1500 x 600		180	125	105	1750	780	200	83	0.895	1174	1409
1500 x 750		180	125	100	1750	930	200	83	1.127	1251	1501
1500 x 900		180	125	95	1750	1080	200	83	1.360	1324	1589
1500 x 1000		180	125	92	1750	1180	200	83	1.517	1371	1645
1500 x 1200		180	125	85	1750	1380	200	83	1.831	1459	1751
1500 x 1500		180	125	75	1750	1680	200	83	2.308	1579	1895
1800 x 600		205	150	130	2100	805	250	83	1.071	1548	1858
1800 x 900		205	150	120	2100	1105	250	83	1.626	1736	2083
1800 x 1200		205	150	110	2100	1405	250	83	2.187	1908	2290
1800 x 1500		205	150	100	2100	1705	250	83	2.754	2066	2479
1800 x 1800		205	150	90	2100	2005	250	83	3.327	2208	2650
2000 x 1000		235	210	177	2420	1235	300	100	2.003	2463	2956
2000 x 1500		235	210	160	2420	1735	300	100	3.045	2884	3461
2000 x 2000		235	210	143	2420	2235	300	100	4.103	3263	3916

### CULVERT BASES

#### SATS SAR Rectangular Portal Culverts - 0.3 to 5.0

Culvert Span	Height	Approximate Mass Per Meter	Approximate Mass Per Unit
900mm	135	352	429
1200mm	160	548	669
1500mm	190	811	989
1800mm	235	1212	1479
2000mm	240	1425	1739

## SATS SAR Rectangular Portal Culverts - 0.3 to 10.0

### RECTANGULAR PORTAL CULVERTS TO SATS CODE OF 1983 + IDEAL DIMENSIONS FOR Z = 0.3 TO 10.0

Length 1.22											
Span x Height mm x mm	Dimensions									Approximate Mass	
	Class	Td mm	TL mm	Tt mm	W mm	D mm	c mm	d mm	W WAY m <sup>2</sup>	kg/m	kg/1.2m
900 x 300	0.3-10.0	225	105	95	1110	525	150	50	0.266	793	952
900 x 450		225	105	90	1110	675	150	50	0.404	863	1035
900 x 600		225	105	85	1110	825	150	50	0.545	928	1114
900 x 750		225	105	80	1110	975	150	50	0.686	990	1188
900 x 900		225	105	75	1110	1125	150	50	0.830	1048	1258
1200 x 450		250	120	105	1440	700	200	67	0.533	1186	1424
1200 x 600		250	120	100	1440	850	200	67	0.719	1263	1516
1200 x 1200		250	120	80	1440	1450	200	67	1.475	1533	1840
1500 x 600		275	125	105	1750	875	250	83	0.891	1600	1920
1500 x 750		275	125	100	1750	1025	250	83	1.123	1677	2013
1500 x 900		275	125	95	1750	1175	250	83	1.356	1750	2100
1500 x 1000		275	125	92	1750	1275	250	83	1.513	1797	2156
1500 x 1200		275	125	85	1750	1475	250	83	1.827	1885	2262
1500 x 1500		275	125	75	1750	1775	250	83	2.304	2005	2406
1800 x 600		295	150	130	2100	895	300	100	1.062	2044	2453
1800 x 900		295	150	120	2100	1195	300	100	1.617	2231	2678
1800 x 1200		295	150	110	2100	1495	300	100	2.178	2404	2885
1800 x 1500		295	150	100	2100	1795	300	100	2.745	2561	3074
1800 x 1800		295	150	90	2100	2095	300	100	3.318	2704	3245
2000 x 1000		310	210	177	2420	1310	333	111	1.996	2935	3522
2000 x 1500		310	210	160	2420	1810	333	111	3.038	3356	4027
2000 x 2000		310	210	143	2420	2310	333	111	4.096	3735	4482

### CULVERT BASES

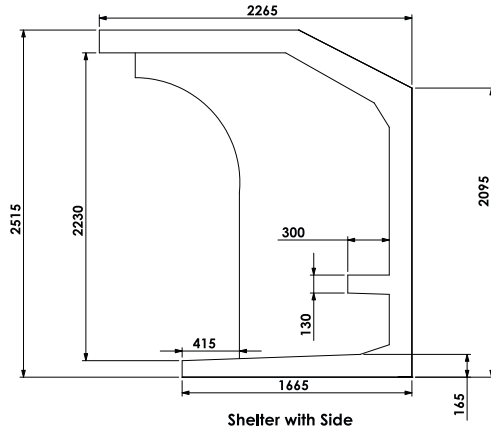
#### SATS SAR Rectangular Portal Culverts - 0.3 to 10.0

Culvert Span	Height	Approximate Mass Per Meter	Approximate Mass Per Unit
900mm	160	432	572
1200mm	195	690	842
1500mm	235	1032	1259
1800mm	270	1414	1725
2000mm	295	1790	2184



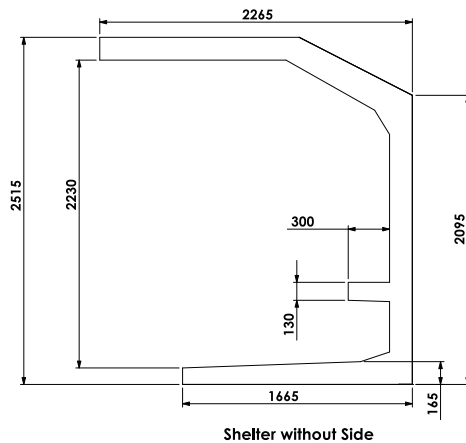


## Precast Concrete Bus Shelter



### With Side Wall:

- 1.Units are 1220mm long
- 2.Approximate mass 2933kg/unit
- 3.Units are not designed for any external loading
- 4.Dimensions may differ slightly

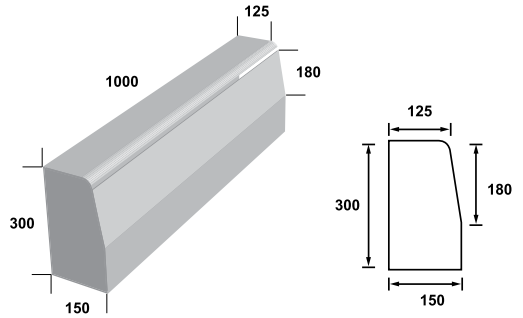


### Without Side Wall:

- 1.Units are 1220mm long
- 2.Approximate mass 2267kg/unit
- 3.Units are not designed for any external loading
- 4.Dimensions may differ slightly

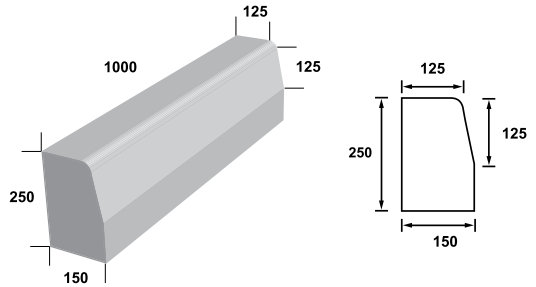
**Fig 3**

Length	1 m
Approximate Mass	110 kg



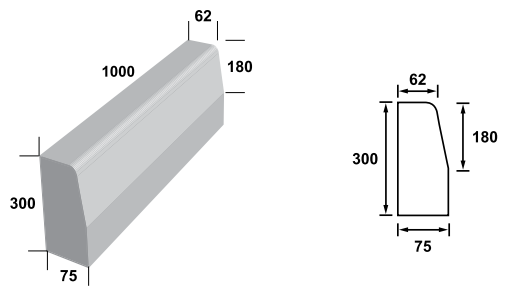
**Fig 4**

Length	1 m
Approximate Mass	95 kg



**Fig 5**

Length	1 m
Approximate Mass	68 kg



# Kerbs

Fig 6

Length	1 m
Approximate Mass	60 kg

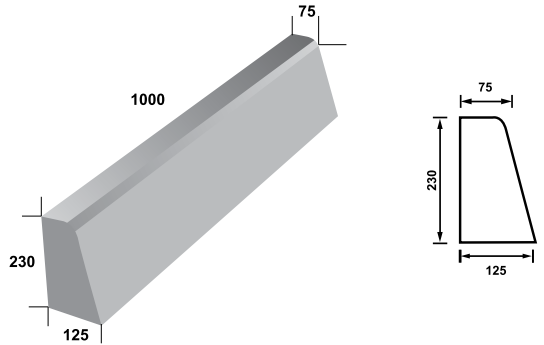


Fig 7

Length	1 m
Approximate Mass	110 kg

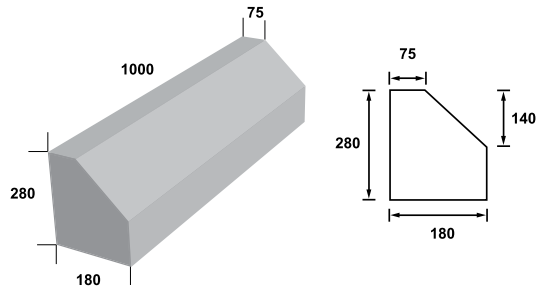
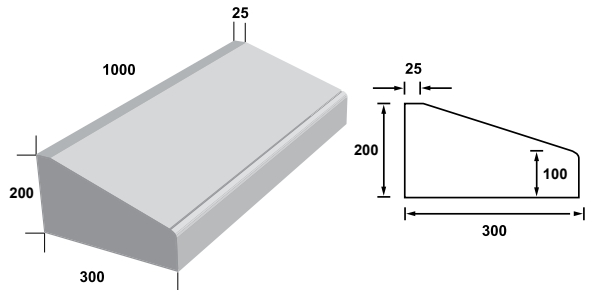


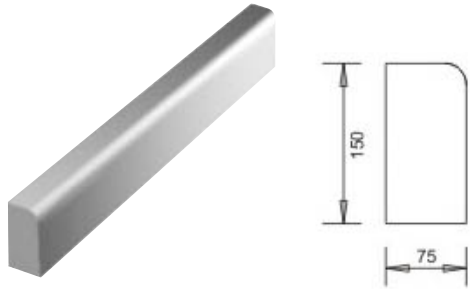
Fig 8 c

Length	1 m
Approximate Mass	115 kg



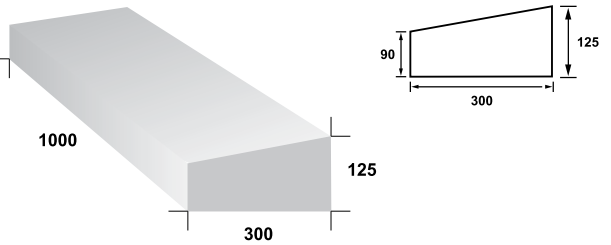
**Fig 12**

Length	1 m
Approximate Mass	30 kg



**Fig 14**

Length	1 m
Approximate Mass	80 kg



**Garden Kerb**

Length	750 mm
Approximate Mass	32 kg





## Barriers / Parapets

Barriers / Parapets can be manufactured to your design



## Galvanized Steel bands

Male Band	HD Lid Grid
Female Band	Cover slab steel band
Lock Lid Grid	Lockable Lid

To provide a one stop service and diversity 3Sixty manufactures their own galvanized steel bands and therefore provide the Contractor Male bands and female bands for special skew slabs that need to be casted in situ.

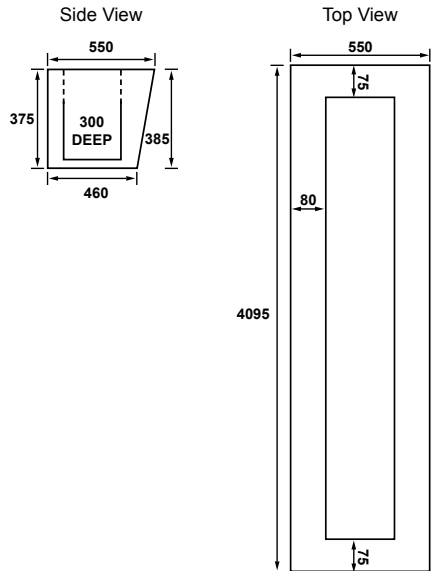


## Stock Trough // Ball Tap Cover

300mm Diameter		450mm Diameter		600mm Diameter	
Length	2.5m	Length	2.5m	Length	2.5m
Approximate Mass	274 kg	Approximate Mass	420 kg	Approximate Mass	533 kg
Volume	90 Litres	Volume	200 Litres	Volume	350 Litres



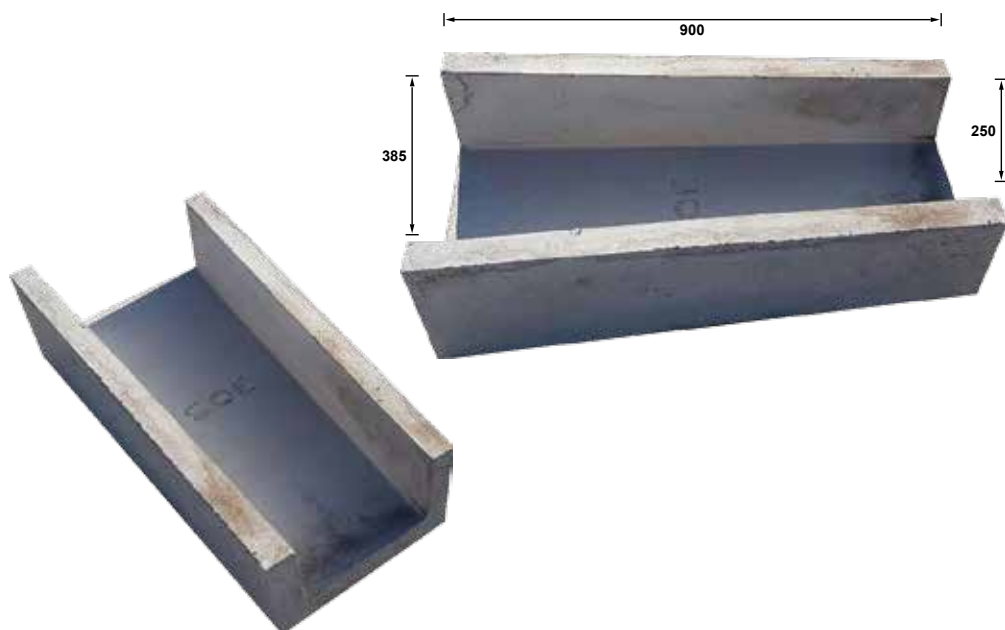
## Horse Trough



## Down Chute

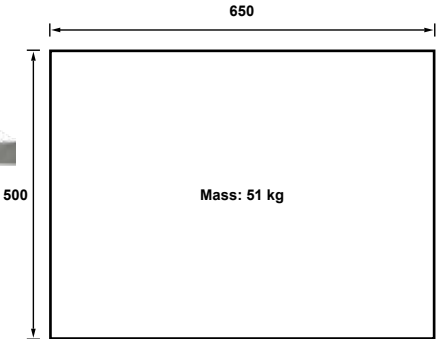
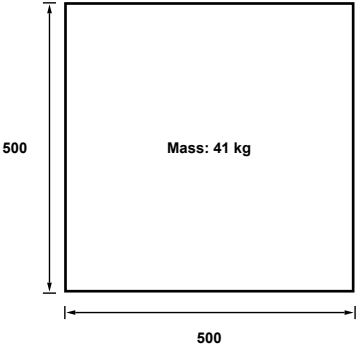
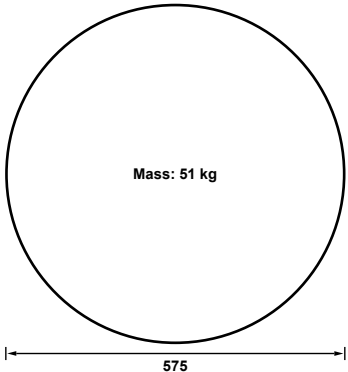


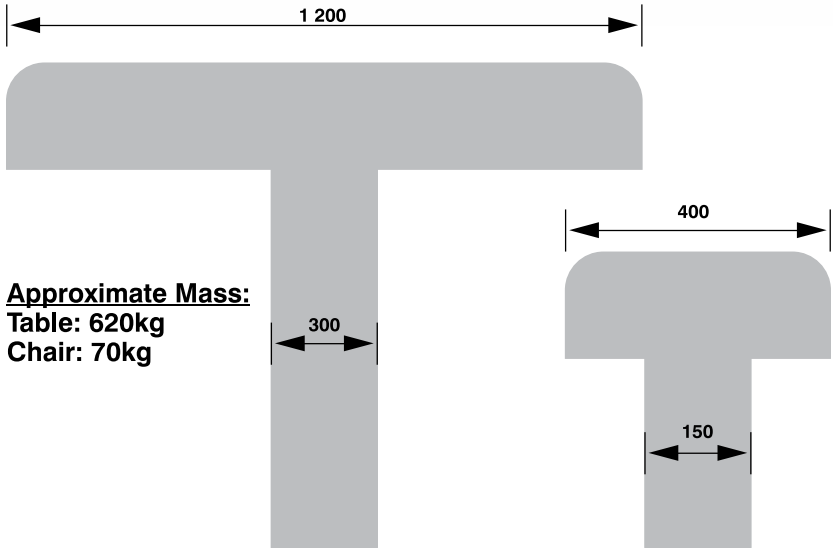
Mass: 120 kg





Replacement Lids





3Sixty Precast Concrete (Pty) Ltd is an emerging leader in the manufacturing of precast concrete products such as culverts, pipes, manhole sections, cover slabs, lids, stock troughs, kerbs and any other products to your design.

The company originated in May 2008 when construction of the factory started. It has been designed and built by the best consultants and engineering works in South Africa. During October 2008 the first kerbs were successfully manufactured. The manhole section, cover slabs and lids followed in November 2008. In January 2009 pipe and culvert production started and SABS stock approval for the culverts and pipes was obtained in April 2009.

3Sixty Precast Concrete (Pty) Ltd was granted the SABS 3 year permit for pipes and culverts in May 2009. This was granted after an in depth audit and is evidence of the exceptional quality control and expertise which form the core of the business.

3Sixty Precast Concrete (Pty) Ltd has the necessary expertise, commitment and production capacity to be a key success factor in your engineering project.



5 Hoof Street, Estoire, Bloemfontein  
P.O. Box 28150, Danhof, 9310  
Tel: (051) 433 1050, Fax: (051) 433 1053  
[www.3sixtyconcrete.com](http://www.3sixtyconcrete.com)  
[sales@3sixtyconcrete.com](mailto:sales@3sixtyconcrete.com)

Free State  
Cell: +2779 403 1300

Northern Cape / North West / Eastern Cape  
Cell: +2782 899 6899

Lesotho  
Cell: +2783 500 3326  
+266 5059 5723  
+266 5786 7149

