

ROCLA

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Product Catalogue



Roodespoort Pipe's manufacturing and storage facility.



ROCLA

PRODUCT CATALOGUE

Rocla (Pty) Ltd is Southern Africa's leading manufacturer of precast concrete products for infrastructure, including pipes, culverts, manholes, poles and various other related products.

In this catalogue, we list the products currently manufactured within an extensive network of factories throughout South Africa, Namibia and Botswana. We also illustrate a portion of the special products we are able to design and

manufacture at customer request. This is made possible through the technical expertise and quality controls we have in place after 97 years of experience in the Precast Concrete field.

For any comments you may have concerning this catalogue, or for any further information, please refer to the contact details on the back cover.

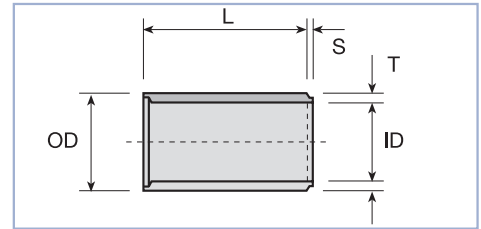
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STORMWATER (INTERLOCKING JOINT) - SANS 677

Notes:

1. The 100mm & 150mm diameter pipes are not made at all Rocla factories. if they are required, special arrangements can be made to make them to the length and wall thickness required.
2. For pipes of 450mm diameter and less the pipelengths available may differ from those in the tabulation. Please enquire about this dimension before placing an order.
3. The 1950 mm ND Pipes are not made at all Rocla factories, please enquire before placing an order.



Pipe Class	Nominal Diameter (ND) mm	Inside Diameter (ID) mm	Outside Diameter (OD) mm	Wall Thickness (T) mm	Nominal Length (L) m	Inside Socket (S) mm	Approximate Mass per meter kg/m	Approximate Mass per pipe kg/pipes	Proof Load kN/m
25D	450	445	533	44	1.83/2.44	20	174	319/426	11.3
	525	534	616	41	2.44	20	191	466	13.1
	600	611	699	44	2.44	15	234	570	15.0
	675	685	787	51	2.44	17	304	742	16.9
	750	762	870	54	2.44	18	357	871	18.8
	825	830	946	58	2.44	18	417	1019	20.6
	900	903	1029	63	2.44	18	493	1204	22.5
	1050	1066	1194	64	2.44	22	586	1430	26.3
	1200	1219	1359	70	2.44	22	731	1784	30.0
	1350	1372	1524	76	2.44	25	892	2176	33.8
	1500	1523	1689	83	2.44	25	1080	2636	37.5
	1650	1656	1854	99	2.44	25	1408	3436	41.3
50D	1800	1803	2019	108	2.44	30	1673	4082	45.0
	1950	1950	2184	117	2.44	30	1960	4783	48.8
	300	292	362	35	1.83/2.44	16	93	170/226	15.0
	375	369	445	38	1.83/2.44	16	125	229/306	18.8
	450	445	533	44	1.83/2.44	20	174	319/426	2.5
	525	534	616	41	2.44	20	191	466	26.3
	600	611	699	44	2.44	15	234	570	30.0
	675	685	787	51	2.44	17	304	742	33.8
	750	762	870	54	2.44	18	357	871	37.5
	825	830	946	58	2.44	18	417	1019	41.3
	900	903	1029	63	2.44	18	493	1204	45.0
	1050	1034	1194	80	2.44	22	722	1763	52.5
75D	1200	1181	1359	89	2.44	22	916	2235	60.0
	1350	1328	1524	98	2.44	25	1133	2764	67.5
	1500	1461	1689	114	2.44	25	1455	3551	75.0
	1650	1608	1854	123	2.44	25	1726	4211	82.5
	1800	1755	2019	132	2.44	30	2019	4926	90.0
	1950	1898	2184	143	2.44	30	2366	5772	97.5
	300	292	362	35	1.83/2.44	16	93	170/226	22.5
	375	369	445	38	1.83/2.44	16	125	229/306	28.1
	450	445	533	44	1.83/2.44	20	174	319/426	33.8
	525	514	616	51	2.44	20	234	570	39.4
	600	585	699	57	2.44	15	297	724	45.0
	675	647	787	70	2.44	17	407	993	50.6
100D	750	718	870	76	2.44	18	489	1193	56.3
	825	788	946	79	2.44	18	555	1355	61.9
	900	853	1029	88	2.44	18	671	1638	67.5
	1050	986	1194	104	2.44	22	919	2242	78.8
	1200	1151	1359	104	2.44	22	1058	2581	90.0
	1350	1292	1524	116	2.44	25	1324	3230	101.3
	1500	1419	1689	135	2.44	25	1700	4149	112.5
	1650	1566	1854	144	2.44	25	1996	4870	123.8
	1800	1707	2019	156	2.44	30	2356	5748	135.0
	1950	1846	2184	169	2.44	30	2760	6735	146.3
	150	153	197	22	1.83	10	31	57	15.0
	225	229	279	25	1.83	10	51	94	22.5
150D	300	292	362	35	1.83/2.44	16	93	170/226	30.0
	375	369	445	38	1.83/2.44	16	125	229/306	37.5
	450	445	533	44	1.83/2.44	20	174	319/426	45.0
	525	514	616	51	2.44	20	234	570	52.5
	600	585	699	57	2.44	15	297	724	60.0
	675	647	787	70	2.44	17	407	993	67.5
	750	718	870	76	2.44	18	489	1193	75.0
	825	788	946	79	2.44	18	555	1355	82.5
	900	853	1029	88	2.44	18	671	1638	90.0
	1050	986	1194	104	2.44	22	919	2242	105.0
	1200	1127	1359	116	2.44	22	1169	2852	120.0
	1350	1262	1524	131	2.44	25	1479	3609	135.0
175D	1500	1383	1689	153	2.44	25	1905	4648	150.0
	1650	1524	1854	165	2.44	25	2259	5512	165.0
	1800	1665	2019	177	2.44	30	2643	6448	180.0
	1950	1800	2184	192	2.44	30	3100	7564	195.0

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

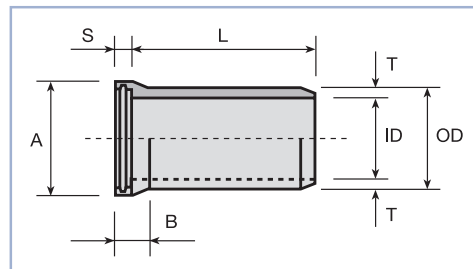
STORMWATER OR SEWER PIPES (SPIGOT & SOCKET JOINT) - SANS 677

Notes:

- For satisfactory performance the allowable joint deflections given below should not be exceeded.

Nominal Diameters	Maximum Deflection	Nominal Diameters	Maximum Deflection
300 - 375	2,0°	1050 - 1200	0,75°
450 - 600	1,5°	1350 - 1800	0,5°
675 - 900	1,0°		

- The joint uses the rolling rubber ring principal and no lubricant is required.
- For pipes of 450mm diameter and less the pipe lengths available may differ from those in the tabulation. Please enquire before placing an order on a factory.
- Pipes within this category may be ordered as both stormwater culvert (SC) or sewer and irrigation (SI) pipes. SI pipes are hydrostatically tested after manufacturing.



Pipe Class	Nominal Diameter (ND) mm	Inside Diameter (ID) mm	Outside Diameter (OD) mm	Wall Thickness (T) mm	Outside Diameter (A) mm	Outside Socket (B) mm	Inside Socket (S) mm	Approximate Mass per meter kg/m	Approximate Mass per pipe kg/pipe	Nominal Length (L) m	Proof Load kN/m
25D	450	445	533	44	641	260	127	202/195	369/476	1.83/2.44	11
	525	534	616	41	730	265	121	216	527	2.44	13
	600	611	699	44	825	300	139	270	658	2.44	15
	675	685	787	51	920	315	139	348	850	2.44	17
	750	762	870	54	1016	330	139	413	1007	2.44	19
	825	830	946	58	1086	330	139	474	1156	2.44	21
	900	913	1041	64	1194	360	139	581	1417	2.44	23
	1050	1066	1194	64	1353	390	162	683	1666	2.44	26
	1200	1219	1365	73	1543	425	168	896	2187	2.44	30
	1350	1372	1524	76	1708	445	175	1050	2562	2.44	34
	1500	1523	1689	83	1886	490	190	1287	3141	2.44	38
50D	1650	1700	1878	89	2088	510	190	1538	3753	2.44	41
	1800	1803	2019	108	2250	525	190	1968	4802	2.44	45
	300	298	368	35	464	225	114	110/106	200/258	1.83/2.44	15
	375	369	445	38	540	235	127	144/140	263/340	1.83/2.44	19
	450	445	533	44	641	260	127	202/195	369/476	1.83/2.44	23
	525	534	616	41	730	265	121	216	527	2.44	26
	600	611	699	44	825	300	139	270	658	2.44	30
	675	685	787	51	920	315	139	348	850	2.44	34
	750	762	870	54	1016	330	139	413	1007	2.44	38
	825	830	946	58	1086	330	139	474	1156	2.44	41
	900	913	1041	64	1194	360	139	581	1417	2.44	45
75D	1050	1034	1194	80	1353	390	162	819	1998	2.44	53
	1200	1187	1365	89	1543	425	168	1052	2568	2.44	60
	1350	1328	1524	98	1708	445	175	1291	3149	2.44	68
	1500	1461	1689	114	1886	490	190	1662	4056	2.44	75
	1650	1640	1878	119	2088	510	190	1944	4744	2.44	83
	1800	1755	2019	132	2250	525	190	2314	5646	2.44	90
	300	298	368	35	464	225	114	110/106	200/258	1.83/2.44	23
	375	300	445	38	540	235	127	144/140	263/340	1.83/2.44	28
	450	445	533	44	641	260	127	202/195	369/476	1.83/2.44	34
	525	514	616	51	730	265	121	259	631	2.44	39
	600	585	699	57	825	300	139	333	812	2.44	45
100D	675	659	787	64	920	315	139	419	1023	2.44	51
	750	730	870	70	1016	330	139	509	1243	2.44	56
	825	788	946	79	1086	330	139	612	1492	2.44	62
	900	869	1041	86	1194	360	139	740	1805	2.44	68
	1050	986	1194	104	1353	390	162	1015	2478	2.44	79
	1200	1157	1365	104	1543	425	168	1195	2915	2.44	90
	1350	1292	1524	116	1708	445	175	1482	3616	2.44	101
	1500	1419	1689	135	1886	490	190	1907	4654	2.44	113
	1650	1600	1878	139	2088	510	190	2207	5385	2.44	124
	1800	1707	2019	156	2250	525	190	2651	6468	2.44	135
	150	150	210	30	305	200	103	49	90	1.83	15
100D	225	230	290	30	390	200	103	71	131	1.83	23
	300	298	368	35	464	225	114	110/106	200/258	1.83/2.44	30
	375	369	445	38	540	235	127	144/140	263/340	1.83/2.44	38
	450	445	533	44	641	260	127	202/195	369/476	1.83/2.44	45
	525	514	616	51	730	265	121	259	631	2.44	53
	600	585	699	57	825	300	139	333	812	2.44	60
	675	659	787	64	920	315	139	419	1023	2.44	68
	750	730	870	70	1016	330	139	509	1243	2.44	75
	825	788	946	79	1086	330	139	612	1492	2.44	83
	900	869	1041	86	1194	360	139	740	1805	2.44	90
	1050	986	1194	104	1353	390	162	1015	2478	2.44	105
100D	1200	1127	1365	119	1543	425	168	1334	3254	2.44	120
	1350	1262	1524	131	1708	445	175	1637	3995	2.44	135
	1500	1383	1689	153	1886	490	190	2112	5153	2.44	150
	1650	1548	1878	165	2088	510	190	2839	6926	2.44	165
	1800	1665	2019	177	2250	525	190	2938	7168	2.44	180

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

Examples of Rocla Concrete Pipes being installed.



SEWER PIPES WITH SACRIFICIAL LAYERS (SPIGOT & SOCKET JOINT) - SANS 677

Notes:

- For satisfactory performance the allowable joint deflections given below should not be exceeded.

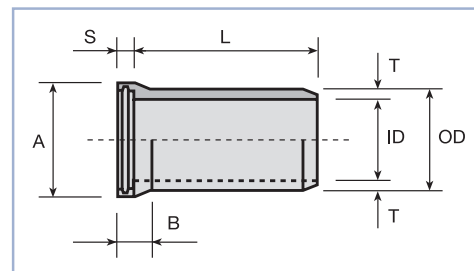
Nominal Diameters	Maximum Deflection	Nominal Diameters	Maximum Deflection
300 - 375	2,0°	1050 - 1200	0,75°
450 - 600	1,5°	1350 - 1800	0,5°
675 - 900	1,0°		

- The Sacrificial layer thickness on standard Rocla sewer pipes are:

300 - 1050 ND - 13mm 1200 - 1800 ND - 19mm

If required pipes with thicker sacrificial layers can be supplied.

- The joint uses the rolling rubber ring principal and no lubricant is required.



Pipe Class	Nominal Diameter (ND) mm	Inside Diameter (ID) mm	Outside Diameter (OD) mm	Wall Thickness (T) mm	Nominal Length (L) m	Outside Diameter (A) mm	Outside Socket (B) mm	Inside Socket (S) mm	Approximate Mass per metre kg/m	Approximate Mass per pipe kg/pipe	Proof Load kN/m
25D	450	419	533	57	1.83/2.44	641	260	127	240	587	11.3
	525	508	616	54	2.44	730	265	121	271	661	13.1
	600	585	699	57	2.44	825	300	139	333	812	15.0
	675	659	787	64	2.44	920	315	139	419	1023	16.9
	750	736	870	67	2.44	1016	330	139	492	1200	18.8
	825	804	946	71	2.44	1086	330	139	560	1366	20.6
	900	887	1041	77	2.44	1194	360	139	676	1648	22.5
	1050	1040	1194	77	2.44	1353	390	162	794	1937	26.3
	1200	1181	1365	92	2.44	1543	425	168	1081	2638	30.0
	1350	1334	1524	95	2.44	1708	445	175	1258	3070	33.8
	1500	1485	1689	102	2.44	1886	490	190	1519	3706	37.5
50D	1650	1662	1878	108	2.44	2088	510	190	1797	4385	41.3
	1800	1765	2019	127	2.44	1968	525	190	2243	5472	45.0
	300	272	368	48	1.83/2.44	464	225	114	138/136	254/331	15.0
	375	343	445	51	1.83/2.44	540	235	127	182/177	332/432	18.8
	450	419	533	57	1.83/2.44	641	260	127	245/240	448/587	22.5
	525	508	616	54	2.44	730	265	121	271	661	26.3
	600	585	699	57	2.44	825	300	139	333	812	30.0
	675	659	787	64	2.44	920	315	139	419	1023	33.8
	750	736	870	67	2.44	1016	330	139	492	1200	37.5
	825	804	946	71	2.44	1086	330	139	560	1366	41.3
	900	887	1041	77	2.44	1194	360	139	676	1648	45.0
75D	1050	1008	1194	93	2.44	1353	390	162	927	2261	52.5
	1200	1149	1365	108	2.44	1543	425	168	1232	3007	60.0
	1350	1290	1524	117	2.44	1708	445	175	1492	3641	67.5
	1500	1423	1689	133	2.44	1886	490	190	1884	4598	75.0
	1650	1602	1878	138	2.44	2088	510	190	2194	5353	82.5
	1800	1717	2019	151	2.44	2250	525	190	2581	6299	90.0
	300	272	368	48	1.83/2.44	464	225	114	138/136	254/331	22.5
	375	343	445	51	1.83/2.44	540	235	127	182/177	332/432	28.1
	450	419	533	57	1.83/2.44	641	260	127	245/240	448/587	33.8
	525	488	616	64	2.44	730	265	121	311	760	39.4
	600	559	699	70	2.44	825	300	139	393	959	45.0
100D	675	633	787	77	2.44	920	315	139	487	1189	50.6
	750	704	870	83	2.44	1016	330	139	585	1427	56.3
	825	762	946	92	2.44	1086	330	139	693	1691	61.9
	900	843	1041	99	2.44	1194	360	139	830	2025	67.5
	1050	960	1194	117	2.44	1353	390	162	1118	2728	78.8
	1200	1119	1365	123	2.44	1543	425	168	1370	3343	90.0
	1350	1254	1524	135	2.44	1708	445	175	1678	4094	101.3
	1500	1381	1689	154	2.44	1886	490	190	2123	5180	112.5
	1650	1562	1878	158	2.44	2088	510	190	2450	5979	123.8
	1800	1669	2019	175	2.44	2250	525	190	2911	7102	135.0
	300	272	368	48	1.83/2.44	464	225	114	138/136	254/331	30.0
150D	375	343	445	51	1.83/2.44	540	235	127	182/177	332/432	37.5
	450	419	533	57	1.83/2.44	641	260	127	245/240	448/587	45.0
	525	488	616	64	2.44	730	265	121	311	760	52.5
	600	559	699	70	2.44	825	300	139	393	959	60.0
	675	621	787	77	2.44	920	315	139	487	1189	67.5
	750	704	870	83	2.44	1016	330	139	585	1427	75.0
	825	762	946	92	2.44	1086	330	139	693	1691	82.5
	900	843	1041	99	2.44	1194	360	139	830	2025	90.0
	1050	960	1194	117	2.44	1353	390	162	1118	2728	105.0
	1200	1089	1365	138	2.44	1543	425	168	1504	3671	120.0
	1350	1224	1524	150	2.44	1708	445	175	1829	4462	135.0
180D	1500	1345	1689	172	2.44	1886	490	190	2322	5665	150.0
	1650	1510	1878	184	2.44	2088	510	190	3074	6769	165.0
	1800	1627	2019	196	2.44	2250	525	190	3191	7787	180.0

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

PRESSURE PIPES

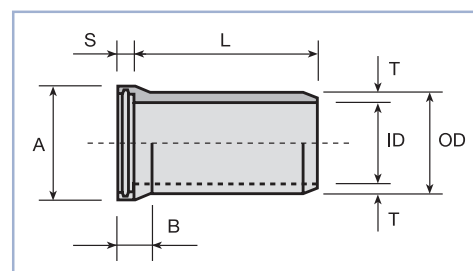
(SPIGOT & SOCKET JOINT) - SANS 676

Notes:

- For satisfactory performance the allowable joint deflections given below should not be exceeded.

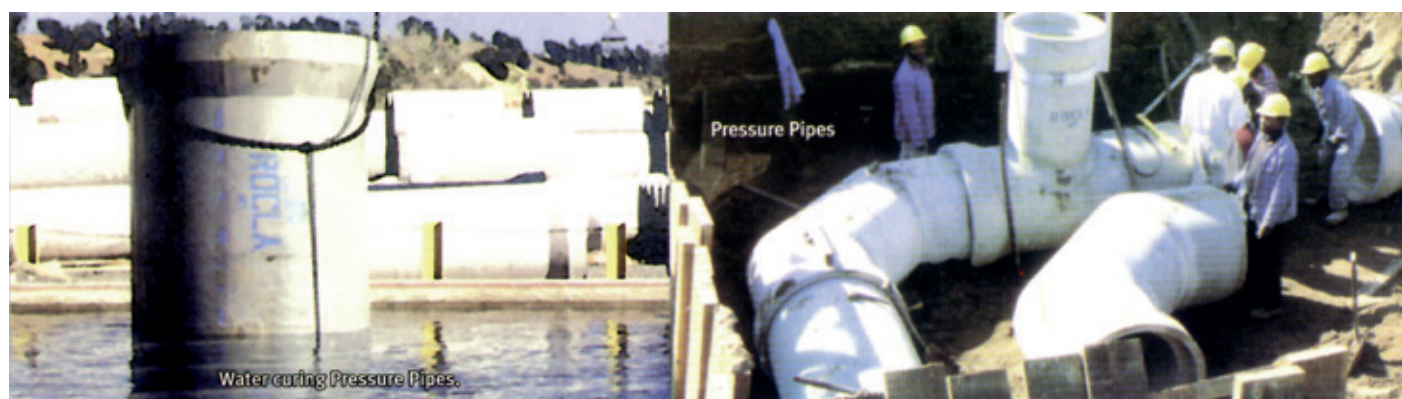
Nominal Diameters	Maximum Deflection	Nominal Diameters	Maximum Deflection
300 - 375	2,0°	1050 - 1200	0,75°
450 - 600	1,5°	1350 - 1800	0,5°
675 - 900	1,0°		

- The joint uses the rolling ring principal and no lubricant is required.
- For pipes of 450mm diameter and less the pipe lengths available may differ from those in the tabulation. Please enquire before placing an order on a factory.



Pipe Class	Nominal Diameter (ND) mm	Inside Diameter (ID) mm	Outside Diameter (OD) mm	Wall Thickness (T) mm	Nominal Length (L) m	Outside Diameter (A) mm	Outside Socket (B) mm	Inside Socket (S) mm	Approximate Mass per metre kg/m	Approximate Mass per pipe kg/pipe
T2	300	284	368	42	1.83/2.44	464	225	114	126/122	230/298
	375	361	445	42	1.83/2.44	540	235	127	156/151	283/369
	450	437	533	48	1.83/2.44	641	260	127	216/209	396/511
	525	514	616	51	2.44	730	265	121	259	631
	600	591	699	54	2.44	825	300	139	318	777
	675	673	787	57	2.44	920	315	139	381	931
	750	750	870	60	2.44	1016	330	139	450	1097
	825	818	946	64	2.44	1086	330	139	514	1254
	900	913	1041	64	2.44	1194	360	139	581	1417
	1050	1066	1194	64	2.44	1353	390	162	683	1666
	1200	1219	1365	73	2.44	1543	425	168	896	2187
	1350	1352	1524	86	2.44	1708	445	175	1160	2831
T4	1500	1503	1689	93	2.44	1886	490	190	1410	3440
	300	284	368	42	1.83/2.44	464	225	114	126/122	230/298
	375	361	445	42	1.83/2.44	540	235	127	156/151	283/369
	450	437	533	48	1.83/2.44	641	260	127	216/209	396/511
	525	514	616	51	2.44	730	265	121	259	631
	600	591	699	54	2.44	825	300	139	318	777
	675	673	787	57	2.44	920	315	139	381	931
	750	750	870	60	2.44	1016	330	139	450	1097
	825	818	946	64	2.44	1086	330	139	514	1254
	900	901	1041	70	2.44	1194	360	139	625	1525
	1050	1028	1194	83	2.44	1353	390	162	844	2059
	1200	1181	1365	92	2.44	1543	425	168	1081	2638
T6	300	284	368	42	1.83/2.44	464	225	114	126/122	230/298
	375	361	445	42	1.83/2.44	540	235	127	156/151	83/369
	450	431	533	51	1.83/2.44	641	260	127	227/220	415/536
	525	496	616	60	2.44	730	265	121	295	721
	600	567	699	66	2.44	825	300	139	375	914
	675	641	787	73	2.44	920	315	139	466	1138
	750	706	870	82	2.44	1016	330	139	579	1413
	825	770	946	88	2.44	1086	330	139	668	1631
	900	845	1041	98	2.44	1194	360	139	823	2008
T8	300	284	368	42	1.83/2.44	464	225	114	126/122	230/298
	375	343	445	51	1.83/2.44	540	235	127	182/177	333/432
	450	413	533	60	1.83/2.44	641	260	127	257/251	471/611
	525	472	616	72	2.44	730	265	121	342	835
	600	531	699	84	2.44	825	300	139	455	1110

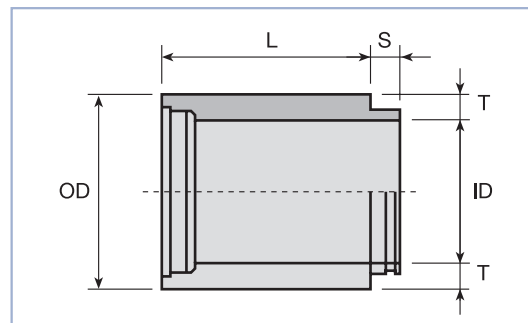
Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.



JACKING PIPES (IN-THE-WALL JOINT)

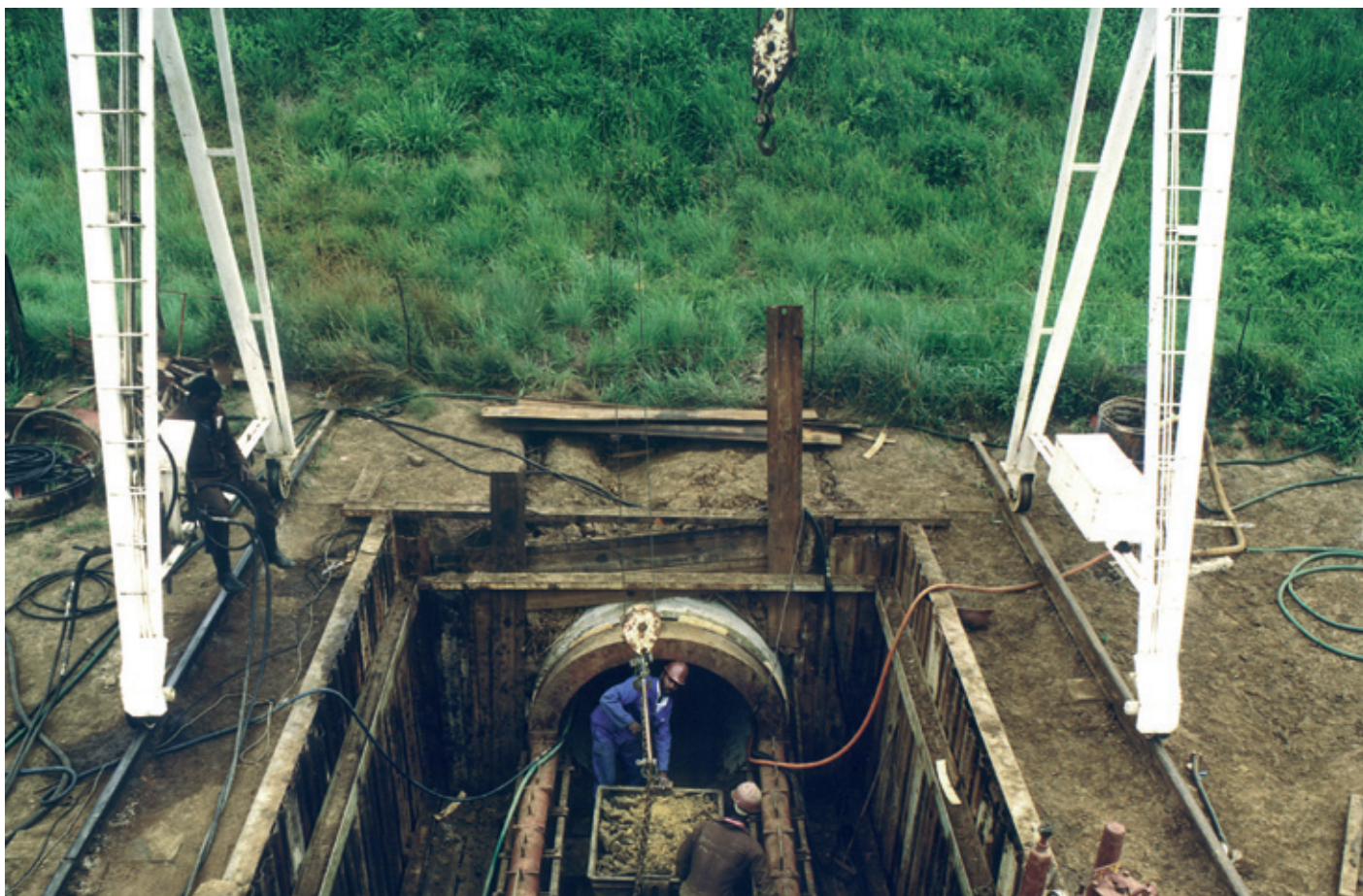
Notes:

1. Allowed deflection is 0,5 for all sizes.
2. The joint uses the sliding rubber ring principle and a lubricant is required.
3. These pipes are suitable for jacking.



Class	Nominal Diameter (ND) mm	Outside Diameter (OD) mm	Inside Diameter (ID) mm	Wall Thickness (T) mm	Nominal Length (L) m	Inside Socket (S) mm	Approximate Mass per metre kg/m	Approximate Mass per pipe kg/pipe	Proof Load		
									50D kN/m	75D kN/m	100D kN/m
100D	900	1090	900	95	2.44	120	766	1915	45	67	90
	1117	1371	1117	127	2.44	133	1280.5	3125	60	90	120
	1473	1778	1473	152	1.22	154	2009.2	2451	75	113	150
	1678	2032	1678	177	1.22/2.44	164	2661.3	3247/6493	90	135	180
	1800	2160	1800	180	1.22/2.44	165	2888.7	3524/7049	90	135	180
	2000	2400	2000	200	2.44	170	3566.3	8702	100	150	200
	2250	2700	2250	225	1.22	175	4513.6	5507	113	169	225
	2340	2800	2340	230	2.44	175	4791.0	11690	120	180	240
	2500	3000	2500	250	1.22/2.44	148	5572.4	6798/13597	125	188	250

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.



RECTANGULAR PORTALS

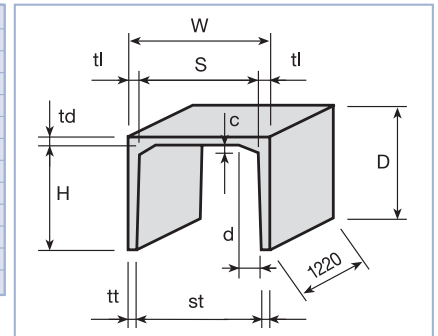
(ROAD APPLICATION STORMWATER CULVERT) - SANS 986

Notes:

1. The dimensions of culverts made at the Blackheath factory differ slightly from those tabulated below. If required, please contact this factory directly for details.
2. Culverts to take greater loads than specified in SABS 986 can be manufactured. Please enquire from your nearest Rocla sales office.
3. Requirements for intermediate sizes can be discussed with branches directly.

NB: For lifting hole arrangements see page 9.

Span mm	Class				
	75S	100S	150S	175S	200
450					x
600					x
750				x	
900				x	
1200			x		
1500		x			
1800	x				
2100	x				
2400	x				
3000	x				
3600	x				



Nominal Size			Dimensions								Water Way	Approximate Mass	
S	x	H	W	D	St	td	tl	tt	c	d	area	per m	per unit
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	m²	kg/m	kg/unit
450	x	300	600	390	470	90	75	65	37	75	0.13	255	311
		375	600	465	475	90	75	63	37	75	0.17	280	342
		450	600	540	480	90	75	60	37	75	0.20	303	370
600	x	300	760	390	620	90	80	70	50	100	0.18	305	373
		450	760	540	630	90	80	65	50	100	0.27	358	436
		600	760	690	640	90	80	60	50	100	0.36	406	495
750	x	300	920	390	770	90	85	75	50	100	0.22	350	427
		450	920	540	780	90	85	70	50	100	0.34	406	496
		600	920	690	790	90	85	65	50	100	0.45	459	560
900	x	300	1100	400	920	100	100	90	50	100	0.26	444	541
		450	1100	550	930	100	100	85	50	100	0.40	511	624
		600	1100	700	940	100	100	80	50	100	0.54	575	702
1200	x	300	1440	420	1220	120	120	110	50	100	0.35	637	777
		450	1440	570	1230	120	120	105	50	100	0.53	720	878
		600	1440	720	1240	120	120	100	50	100	0.72	799	975
1500	x	300	1750	425	1520	125	125	115	50	100	0.47	807	988
		450	1750	575	1530	125	125	110	50	100	0.67	881	1075
		600	1750	725	1540	125	125	105	50	100	0.90	964	1176
1800	x	300	2100	450	1840	150	150	130	50	100	0.57	1007	1235
		450	2100	600	1860	150	150	120	50	100	0.83	1119	1365
		600	2100	750	1880	150	150	110	50	100	1.09	1258	1535
2100	x	300	2400	475	2140	150	150	130	50	100	1.26	1324	1615
		450	2400	625	2160	150	150	120	50	100	1.63	1517	1851
		600	2400	775	2180	150	150	110	50	100	2.19	1695	2068
2400	x	300	2720	500	2440	160	160	140	50	100	1.44	1665	2031
		450	2720	650	2460	160	160	130	50	100	2.17	1874	2293
		600	2720	800	2480	160	160	120	50	100	2.91	2067	2533
3000	x	300	3480	525	3040	190	190	170	50	100	3.66	2245	2752
		450	3480	675	3060	190	190	160	50	100	4.41	2408	2954
		600	3480	825	3080	190	190	150	50	100	5.19	2578	3145
3600	x	300	4060	550	3640	250	250	210	50	100	5.94	2686	3277
		450	4060	700	3660	250	250	200	50	100	7.34	3121	3811
		600	4060	850	3680	250	250	190	50	100	9.25	3599	4362
4000	x	300	4600	575	4100	250	250	210	50	100	12.12	6463	7884
		450	4600	725	4120	250	250	200	50	100	15.05	5521	6736
		600	4600	875	4140	250	250	190	50	100	18.05	5108	6232

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

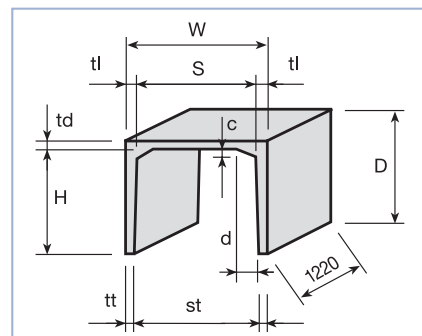
SATS SAR RECTANGULAR PORTALS

(RAIL APPLICATION STORMWATER CULVERT) - CLASS 1 LOADING

Notes:

1. These culverts are available from a limited number of factories only. Please enquire about their availability from your nearest Rocla sales office.
2. These culverts are designed to meet the requirements of SATS class 1 loading, where "Z" is the effective fill height above the culverts.

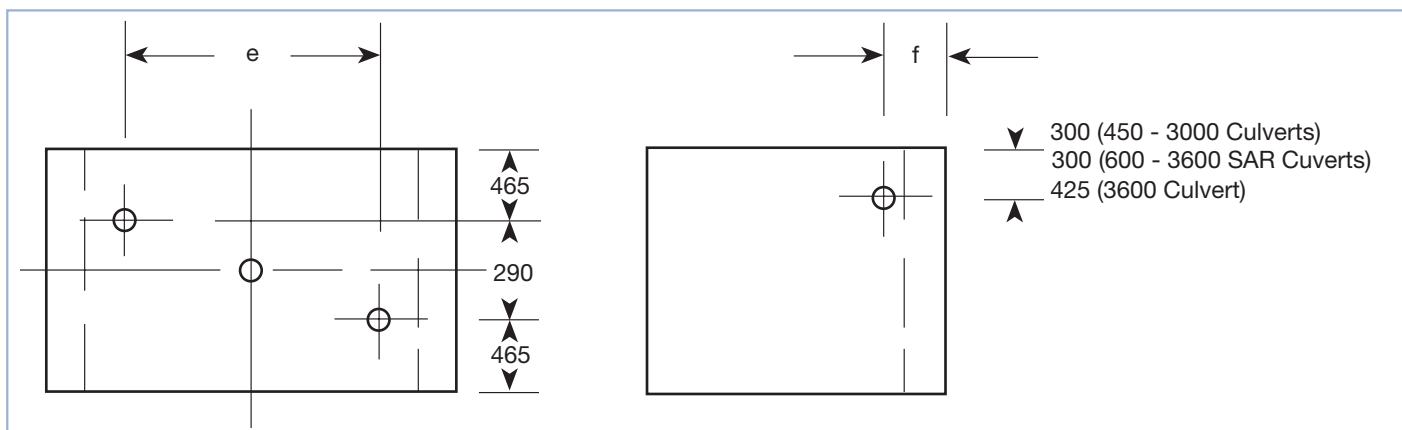
NB: For lifting hole arrangements see page 9.



Nominal Size			Dimensions								Water Way	Approximate Mass	
S	x	H	Z	W	D	St	td	tl	tt	r	area	per m	per unit
mm	mm	mm	m	mm	mm	mm	mm	mm	mm	mm	m²	kg/m	kg/unit
600	x	450	0 - 5	800	570	630	120	100	85	50/100	0.28	475	580
		600	0 - 5	800	720	640	120	100	80	50/100	0.37	539	658
750	x	450	0 - 5	950	600	780	150	100	85	50/100	0.34	595	726
		600	0 - 5	950	750	790	150	100	80	50/100	0.46	659	804
		750	0 - 5	950	900	800	150	100	75	50/100	0.58	719	877
900	x	450	0 - 5	1100	570	930	120	100	85	50/100	0.41	570	696
		600	0 - 5	1100	730	940	130	100	80	50/100	0.55	663	809
		600	0 - 15	1100	790	990	190	100	80	50/100	0.57	818	998
		750	0 - 5	1100	900	950	150	100	75	50/100	0.69	777	948
		900	0 - 5	1100	1030	960	130	100	70	50/100	0.84	780	951
1200	x	450	0 - 5	1440	610	1240	160	120	100	50/100	0.55	868	1059
		600	0 - 7.5	1440	760	1240	160	120	100	50/100	0.73	960	1171
		1200	0 - 7.5	1440	1360	1280	160	120	80	50/100	1.49	1234	1505
1500	x	600	0 - 5	1750	755	1540	155	125	105	75/225	1.14	1099	1341
		750	0 - 5	1750	905	1550	155	125	100	75/225	1.14	1178	1438
		900	0 - 5	1750	1055	1560	155	125	95	75/225	1.38	1262	1540
		1000	0 - 5	1860	1175	1566	175	180	147	150	1.53	1709	2085
		1000	5 - 10	1860	1225	1566	225	180	147	150	1.53	1951	2380
		1200	0 - 5	1860	1355	1580	155	180	140	75/225	1.85	1402	1710
		1500	0 - 5	1860	1675	1600	175	180	130	150	2.33	2066	2520
		1500	5 - 10	1860	1725	1600	225	180	130	150	2.33	2307	2815
		1800	0 - 5	2100	750	1800	150	150	120	100/300	1.62	1323	1614
		900	0 - 5	2100	1070	1880	170	140	100	100/300	2.21	1524	1859
2000	x	1000	0 - 5	2420	1225	2066	225	210	177	200	2.03	2447	2985
		1000	5 - 10	2420	1275	2066	275	210	177	200	2.03	2775	3385
		1500	0 - 5	2420	1725	2100	225	210	160	200	3.08	2861	3490
		1500	5 - 10	2420	1775	2100	275	210	160	200	3.08	3176	3875
		1800	0 - 5	2420	2025	2120	225	210	150	200	3.45	3711	4528
		1800	5 - 10	2420	2075	2120	275	210	150	200	4.16	4012	4896
		2000	0 - 5	2420	2225	2134	225	210	143	200	4.13	3254	3979
		2000	5 - 10	2420	2275	2134	275	210	143	200	4.13	3566	4350
		2500	0 - 5	2960	1725	2600	225	230	180	250	3.83	3377	4120
		1500	5 - 10	2960	1825	2600	325	230	180	250	3.83	4139	5050
2500	x	2000	0 - 5	2960	2225	2632	225	230	164	250	5.13	3820	4660
		2000	5 - 10	2960	2325	2632	325	230	164	250	5.13	4586	5595
		2500	0 - 5	2960	2725	2666	225	230	147	250	6.46	4221	5150
		2500	5 - 10	2960	2825	2666	325	230	147	250	6.46	4984	6080
		3000	0 - 5	3570	1275	3128	275	285	252	300	3.06	4062	4956
		1000	5 - 10	3570	1375	3128	375	285	252	300	3.06	4984	6081
		1500	0 - 5	3570	1795	3096	275	285	237	300	4.63	4653	5677
		1500	5 - 10	3570	1875	3096	375	285	237	300	4.57	5575	6802
		2000	0 - 5	3570	2275	3130	275	285	220	300	6.09	5242	6395
		2000	5 - 10	3570	2375	3130	375	285	220	300	6.09	6164	7520
3000	x	2500	0 - 5	3570	2775	3166	275	285	202	300	7.66	5775	7045
		2500	5 - 10	3570	2875	3166	375	285	202	300	7.66	6697	8170
		3000	0 - 5	3570	3275	3200	275	285	185	300	9.26	6270	7649
		3000	5 - 10	3570	3375	3200	375	285	185	300	9.26	7193	8775

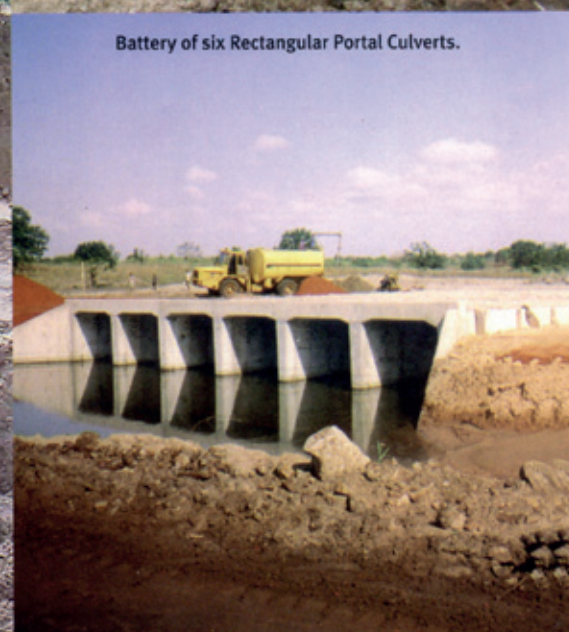
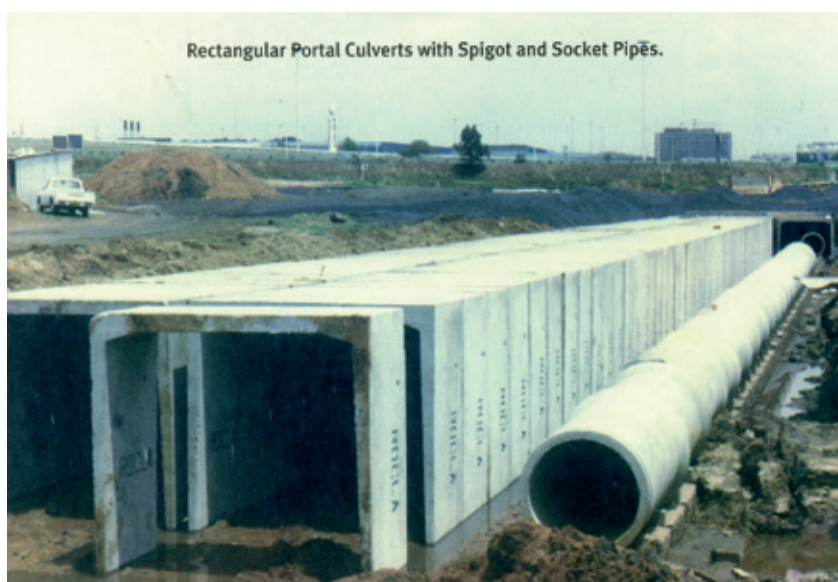
Special SAR Culverts													
Culvert Size			Dimensions										
S	x	H	Z	W	D	St	td	tl	tt	c	d	e	f
3600	x	2100	0 - 7	4200	2500	3740	400	300	230	SAR Adjustable Moulds			668
		2400	0 - 15		2800	3760			220				755
750	x	2500	0 - 15		2900	3766			217	300	600	2300	784
		3000	0 - 5		3400	3800			200				930

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.



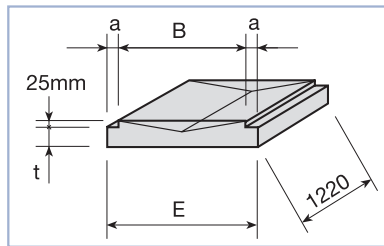
**PLAN & SIDE VIEW
SHOWING LIFTING HOLE ARRANGEMENTS**

Span	Hole arrangement (ø 50mm MIN.)
450 - 750	Single hole in centre in deck
900 - 3600	Two lifting holes in deck
1500 - 3600	Single hole in each leg

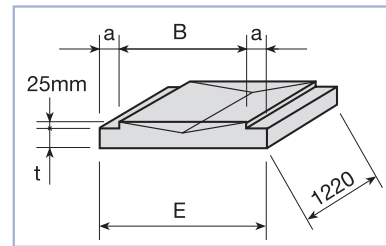


CULVERT BASE SLABS

SLABS FOR RECTANGULAR PORTAL CULVERT



SLABS FOR SATS RECTANGULAR PORTAL CULVERT

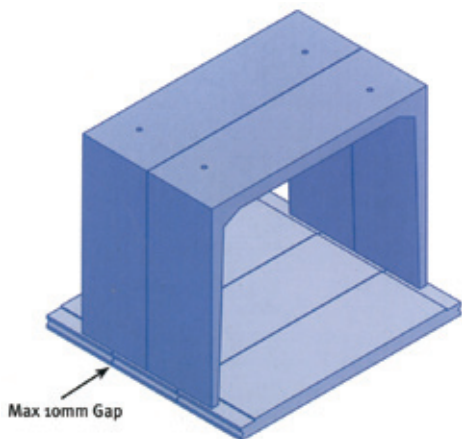


Culvert Span	Max Leg Height	Dimensions				Approximate Mass Per	
S	H	E	t	a	B	metre	base
mm	mm	mm	mm	mm	mm	kg/m	kg/unit
450	450	640	65	95	450	136	166
600	600	800	85	95	610	215	262
750	750	960	100	100	760	297	362
900	900	1150	115	120	910	400	488
1200	1200	1480	130	135	1210	574	701
1500	1500	1800	140	140	1520	748	913
1800	1200	2150	150	165	1820	949	1158
1800	1800	2150	150	165	1880	953	1163
2100	1500	2470	160	165	2140	1158	1412
2100	2100	2470	160	135	2200	1162	1417
2400	1500	2770	170	165	2440	1372	1674
2400	2400	2770	170	135	2500	1376	1679
3000	1500	3510	190	245	3020	1915	2337
3000	3000	3510	190	235	3040	1917	2338
3600	3000	4150	200	265	3620	2375	2897

Culvert Span	Fill	Dimensions					Approximate Mass per	
		Z	B	E	T	A		
Mass		mm	m	m	mm	mm	kg/m	kg/unit
750	0 - 5	760	1000	160	120		482	588
750	5 - 10	760	1000	160	120		482	588
900	0 - 5	1150	160	120	910		533	651
900	5 - 10	1150	160	120	910		533	651
1200	0 - 5	1500	160	140	1220		698	851
1200	5 - 10	1500	180	140	1220		775	946
1500	0 - 5	1900	180	175	1550		982	1198
1500	5 - 10	1900	220	175	1550		1178	1438
1800	0 - 5	2150	200	165	1820		1227	1497
1800	5 - 10	2150	250	165	1820		1504	1835
2000	0 - 5	2450	220	200	2050		1523	1858
2000	5 - 10	2450	280	200	2050		1902	2321
2400	0 - 5	2800	240	175	2450		1892	2308
2400	5 - 10	2800	320	175	2450		2470	3013
2500	0 - 5	3000	50	225	2550		2099	2561
2500	5 - 10	3000	330	225	2550		2719	3317
3000	0 - 5	3600	270	275	3050		2704	3299
3000	5 - 10	3600	370	275	3050		3633	4433

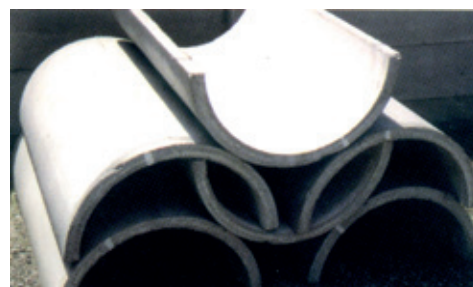
Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

Rectangular Portal Culvert with precast base.



HALF ROUND CHANNELS

ID (mm)	Length (m)	Mass (kg)
300	1.22	42
375	1.22	56
450	2.44	214
600	2.44	280

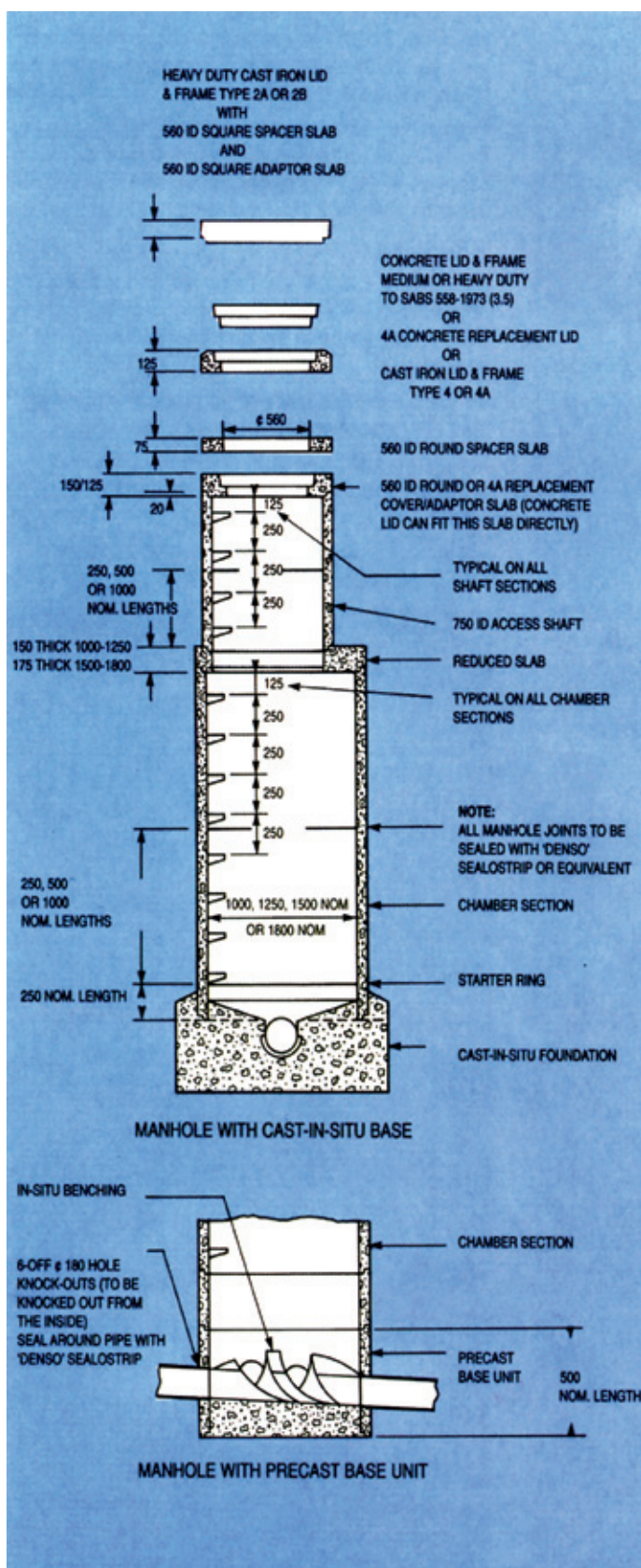


Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

MANHOLES, CHAMBERS, SHAFT SECTIONS & SLABS

Note:

1. 1950 Manholes are not made at all Rocla factories, please enquire before placing an order.
2. Manhole Components may be used at both stormwater and sewer applications, where sewer applications will require customers to specify the use of dolomitic aggregates.



Pipe Strength	Normal Diameter	Inside Diameter	Outside Diameter	Wall Thickness	Nominal Length	Inside Socket	Approx Mass	Proof Load
kN/m	ND	ID	OD	T	L	S		
	mm	mm	mm	mm	mm	mm	kg/unit	kN/m
15	750	750	860	55	250	18	90	15.0
		750	860	55	500	18	180	15.0
		750	860	55	1000	18	359	15.0
	1000	1000	1130	65	250	19	140	15.0
		1000	1130	65	500	19	281	15.0
		1000	1130	65	1000	19	561	15.0
	1250	1250	1400	75	250	22	202	15.0
		1250	1400	75	500	22	403	15.0
		1250	1400	75	1000	22	806	15.0
	1500	1523	1689	83	250	25	270	15.0
		1523	1689	83	500	25	540	15.0
		1523	1689	83	1000	25	1080	15.0
	1800	1829	2019	95	250	30	371	15.0
		1829	2019	95	500	30	741	15.0
		1829	2019	95	1000	30	1482	15.0
	1950	1980	2184	102	1000	32	1960	15.0

Reducer Slabs	Reduce To	Thickness mm	Mass kg
1000	750	150	204
1250	750	150	408
1500	750	175	793
1800	750	175	1218
1950	750	195	1662

Cover Slab	Reduce To	Thickness mm	Mass kg
1000	560	150	272
1250	560	150	476
1500	560	175	871
1800	560	175	1296
1950	560	195	1885

Adaptor Slabs		Mass kg
Round	750mm with 560 hole 150 THK	113
4A	860 OD with 560 hole 125 THK	84
Square	900 with 560 hole 125 THK	146

Spacer Slabs		Mass kg
Round Spacer	750mm with 560 hole 75 THK	51
	900 SQ with 560 hole 75 THK	108

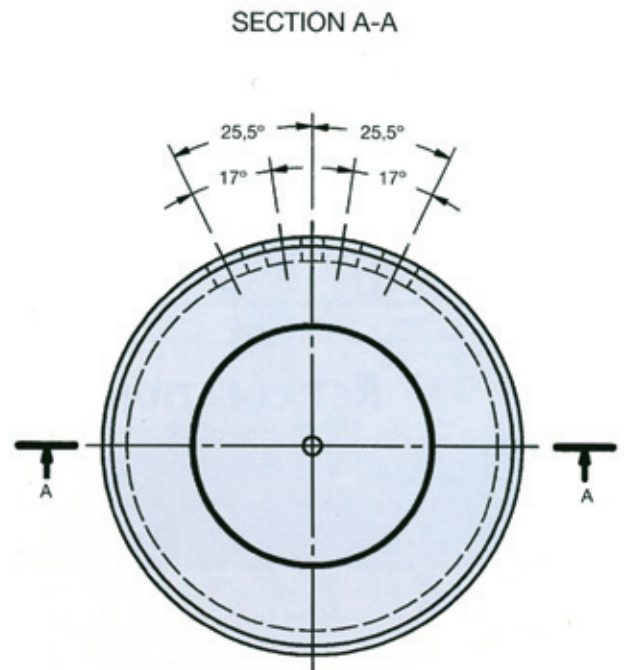
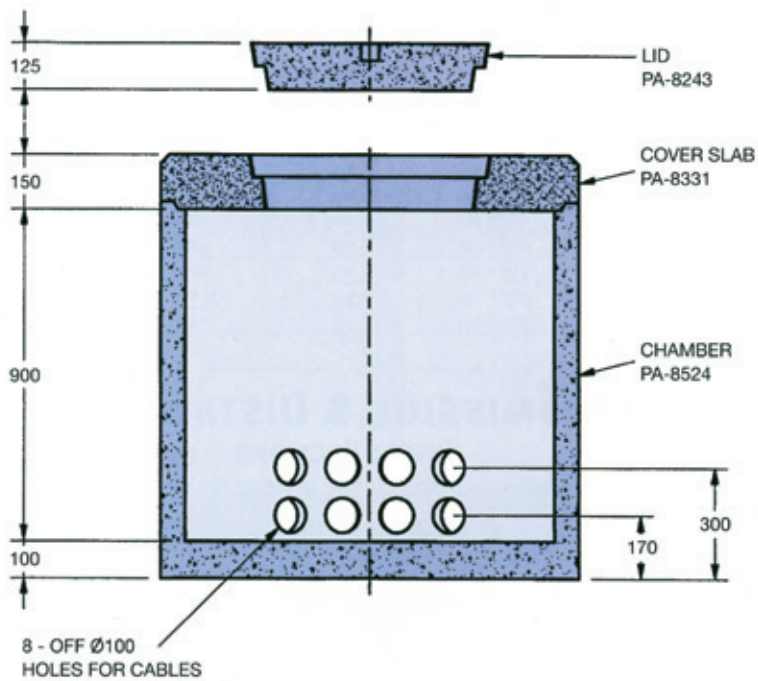
Concrete Lid	Mass kg
560 DIA Heavy Duty	95
560 DIA Medium Duty	95

Section of Manhole Access Shaft and Precast Base Unit.
1000 Diameter, Mass 716kg, 6 outlets.

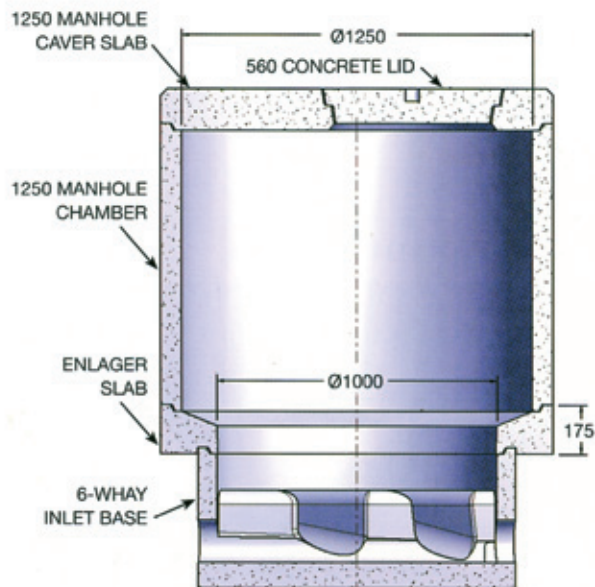


Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

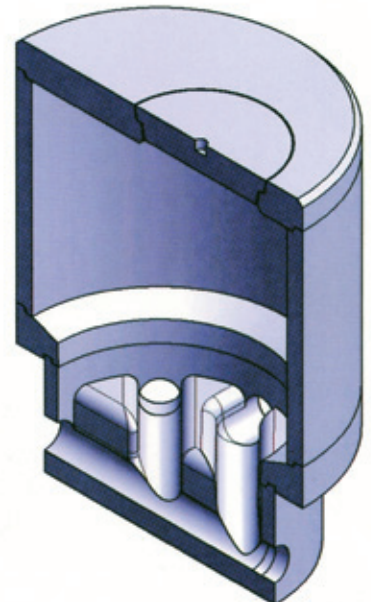
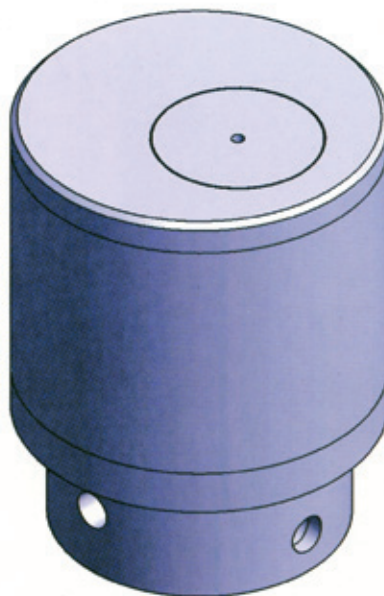
AIRPORT MANHOLE



ENLARGER SLAB



SECTION A-A



ENLARGER SLAB	ENLARGES TO	THICKNESS	MASS kg
1000	1250	175	270

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

SPUN CONCRETE POLES

Pole Size							
Length m	Tip Dia mm	Butt Dia mm	Mass t	Cable Entry mm	Inspection Box mm	Strength kN	Planting Depth m
4.5	115	183	0.210	150 x 75	465 x 145	2.5	1.00
4.5	130	198	0.237	150 x 75	465 x 145	2.5	1.00
6.0	115	205	0.307	150 x 75	465 x 145	2.5	1.20
6.0	130	220	0.346	150 x 75	465 x 145	2.5	1.20
7.5	115	228	0.419	150 x 75	465 x 145	2.5	1.35
7.5	130	243	0.473	150 x 75	465 x 145	2.5	1.35
8.0	130	250	0.522	150 x 75	465 x 145	2.5	1.40
9.0	130	265	0.617	150 x 75	465 x 145	2.5 or 5.5	1.50
10.0	130	280	0.720	150 x 75	465 x 145	5.5	1.60
11.0	130	295	0.828	150 x 75	465 x 145	5.5	1.70
12.0	130	310	0.967	150 x 75	465 x 145	5.5	1.80
13.0	130	325	1.066	150 x 75	465 x 145	5.5	1.90

RETICULATION

Dimensions					
Length m	Tip Dia mm	Butt Dia mm	Mass kg	Strenght kN	Planting Depth m
7.0	130	235	434	3.5	1.3
9.0	160	295	646	5.5	1.5
9.0	160	295	807	8.5	1.5
9.0	190	325	950	12.0	1.5
10.0	160	310	866	5.5	1.6
10.0	190	340	1095	12.0	1.6
11.0	160	325	1074	8.5	1.7
11.0	190	355	1287	15.0	1.7
12.0	160	340	1051	8.5	1.8
13.0	160	355	1261	5.5	1.9
13.0	190	385	1449	8.0	1.9
14.0	192	402	1770	10.0	2.0

TRANSMISSION & DISTRIBUTION SINGLE SECTIONS

Dimensions					
Length m	Tip Dia mm	Butt Dia mm	Mass kg	Strenght kN	Planting Depth m
15.6	264	498	2872	15.0	2.20
15.6	264	498	2954	25.0	2.20
15.6	264	498	2984	30.0	2.20
16.8	228	480	2825	18.0	2.30
16.8	228	480	3034	32.0	2.30
16.8	300	552	4140	50.0	2.30
16.8	300	552	4424	55.0	2.30
18.0	228	498	3076	15.0	2.40
18.0	228	498	3250	28.0	2.40
18.0	228	498	3328	36.0	2.40
18.0	300	570	4822	50.0	2.40
19.2	264	552	4242	25.0	2.50
19.2	300	588	4856	36.0	2.50
19.2	300	588	4989	50.0	2.50
19.2	372	660	6003	65.0	2.50
21.0	300	615	4960	21.0	2.70
21.0	300	615	5084	32.0	2.70
21.0	300	615	5343	50.0	2.70
24.0	300	660	6140	32.0	3.00
24.0	300	660	6510	40.0	3.00
24.0	300	660	6532	50.0	3.00

JOINTED SECTIONS

Dimensions					
Length m	Tip Dia mm	Butt Dia mm	Mass kg	Strenght kN	Planting Depth m
26.4	300	696	9038	50.0	3.20
28.8	300	732	10413	50.0	3.50
31.2	300	768	11680	50.0	3.70
33.6	300	804	13347	50.0	4.00
36.0	300	804	15040	50.0	4.20

DOUBLE POLES

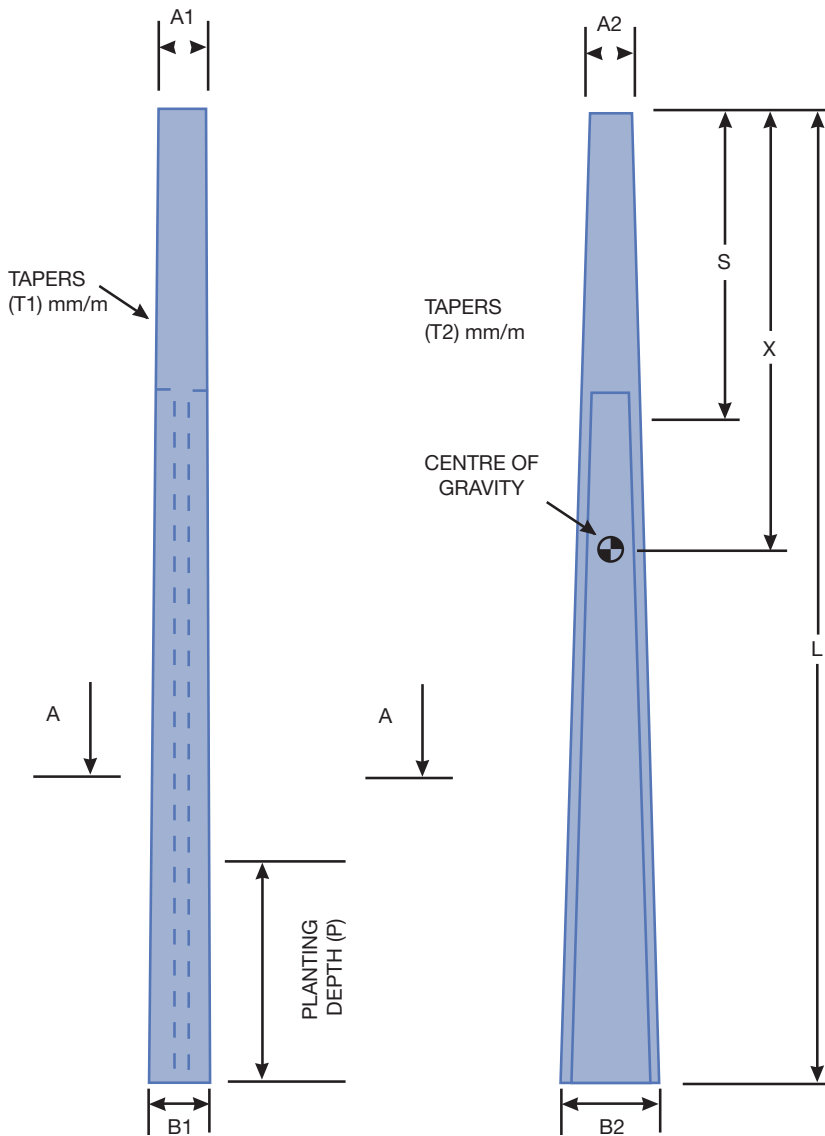
Dimensions					
Length m	Tip Dia mm	Butt Dia mm	Mass kg	Strenght kN	Planting Depth m
19.2	372	660	12006	206	2.50
21.0	300	615	10686	156	2.70
24.0	300	660	13064	156	3.00

The mass of the connecting steel elements is not included in the pole mass as given in the table above.

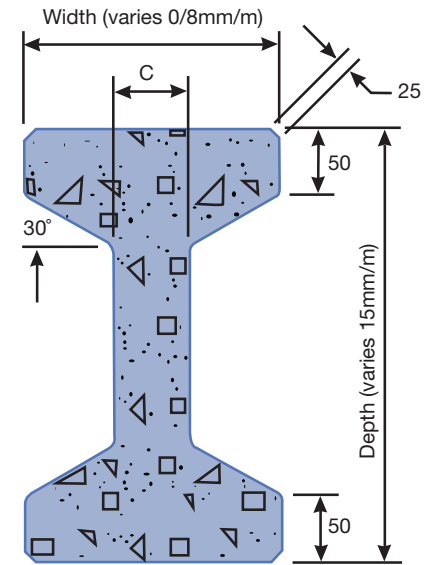


Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

I-SECTION CAST CONCRETE POLES



L m	A1 mm	A2 mm	B1 mm	B2 mm	S mm	T1	T2	P mm	C mm	X mm	Approx. Mass (Kg)	Strength (kN)
7.0	100	120	100	255	2000	0	15	1300	55	3790	257	4.0
7.5	200	350	245	462.5	2500	6	15	1350	60	3170	1139	20.0
9.0	100	160	154	295	2500	6	15	1500	60	5140	515	6.0
9.3	165	275	220.8	414.5	2000	6	15	1500	60	5140	1017	17.5
11.0	130	180	196	345	1500	6	15	1700	60	6344	836	8.0
13.0	160	250	238	445	1500	6	15	1900	60	7303	1397	10.0



TYPICAL SECTION A-A

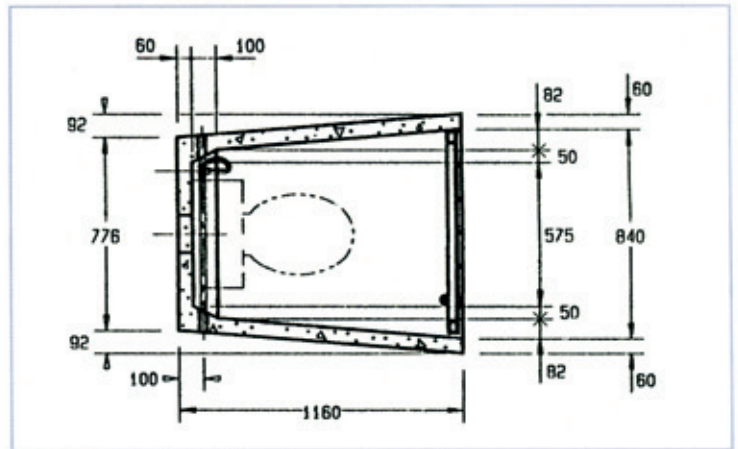
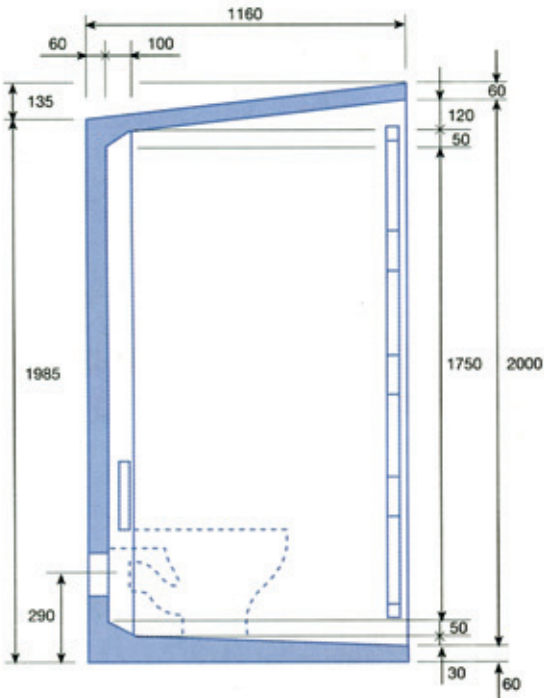


TOILET SYSTEMS

ONE-PIECE TOILET

Notes:

1. One piece, precast concrete toilet structure with water pipe above the cistern.



PANEL TOILET

Notes:

1. Rocla leads the way in providing mass employment in the provision of sanitation. Rocla has left no stone unturned in developing its new Lightweight Concrete Sanitation Unit.

Social Development Features:

- Labour intensive methods used.
- Community based labour.
- Up to 70% woman employed.
- Training and transfer of skills.
- On site training and employment.
- Toilet can be relocated by the household.
- Preferred product by communities.
- Most suited for Expanded Public Works Programme (EPWP).

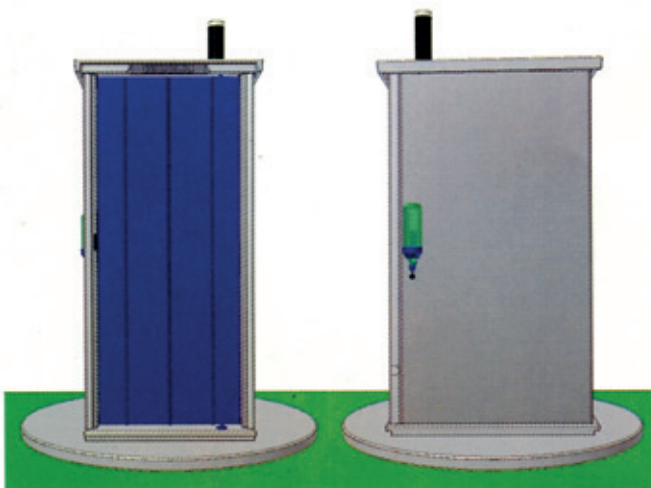
Technical Features:

- New Patented Concrete Technology.
- All concrete structure.
- All components have convenient "hand grips".
- One piece walls, roof, floor and spreader slab.
- No "styrofoam" or "metal bits and pieces".
- Panels are light and easy to handle.
- Top structure erected in 15 minutes.
- Very low breakage/damage factor.
- Available in VIP or Waterborne format.
- Designed to be in line with all Standards.
- Large interior (900mm Wide x 1100mm Deep x 2000mm High).
- All bolts internal (no studs).
- Easy relocation when required.

- Bolts tap into plastic sleeve, ensuring ease for later relocation.
- Strong textured galvanised steel pivot door.
- "Real door" mechanism that self latches.
- Door can be opened from inside when locked on the outside.
- Integral cross ventilation built in.
- VIP pit adaptable to all conditions.
- All types of pans bolt to the floor.

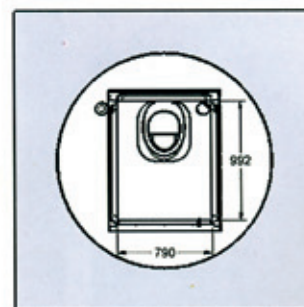
Logistical Facts:

- One manufacturing facility can produce a large quantity of units per month.
- Rocla is will partner with Municipalities/ communities to erect factories for large projects.

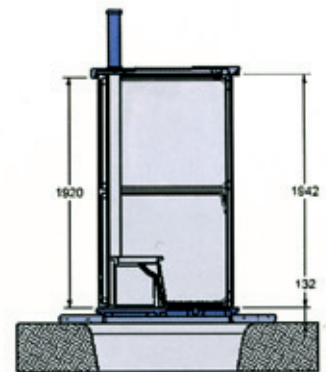


Panel Toilet
Front View

Panel Toilet
Side View



SECTION B-B



SECTION A-A



Security Box.



Concrete Toilet cross-section



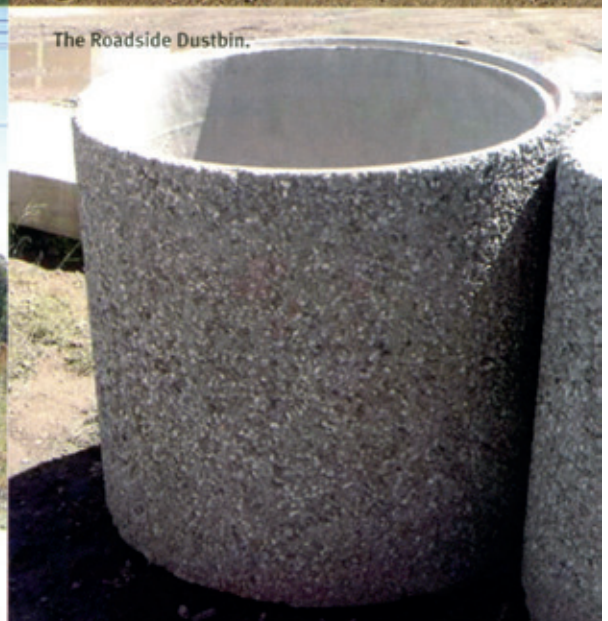
Roadside Furniture.



Concrete Toilet with Wash Trough.

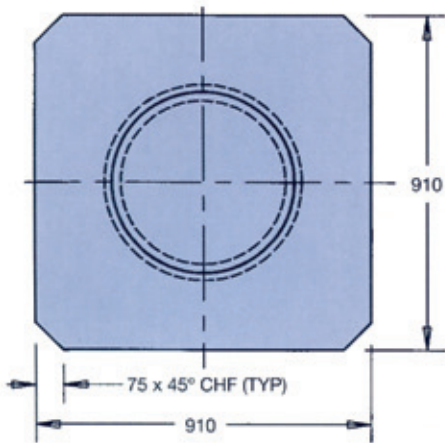


Concrete Bus Shelter.



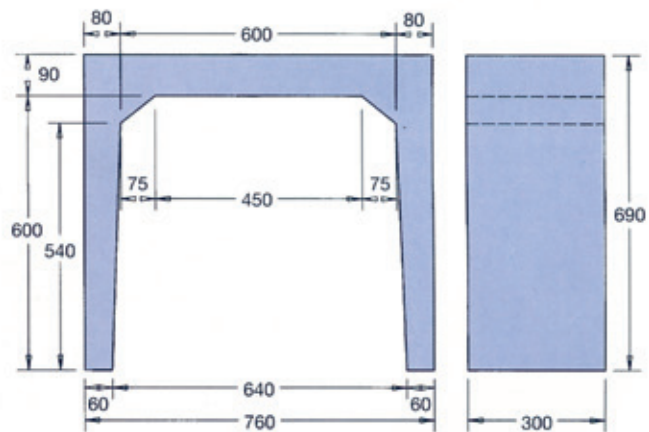
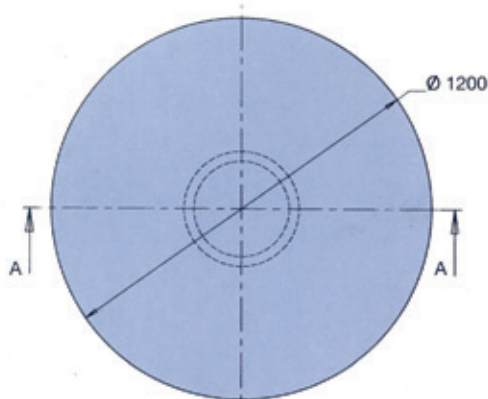
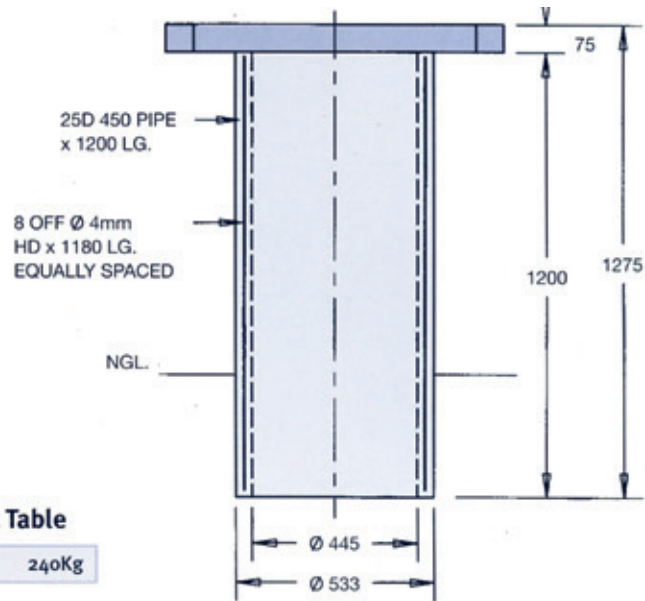
The Roadside Dustbin.

ROADSIDE FURNITURE



National Road Picnic Table

APPROX. CONCRETE MASS: 240Kg



Square National Road Picnic Bench

APPROX. CONCRETE MASS: 123Kg

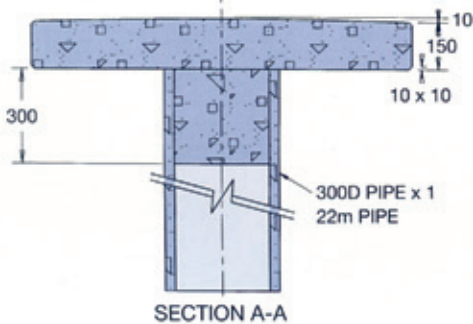
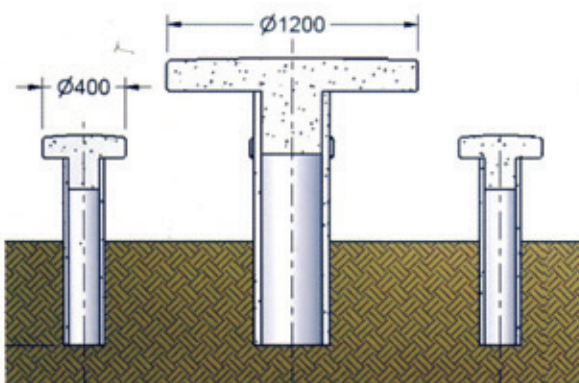


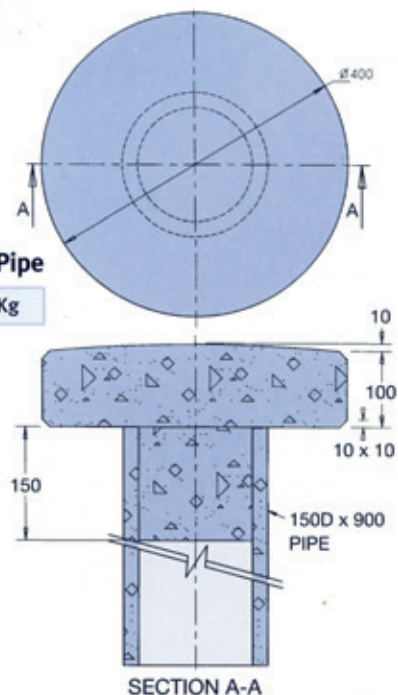
Table Top with Cast In Pipe

APPROX. CONCRETE MASS: 620Kg

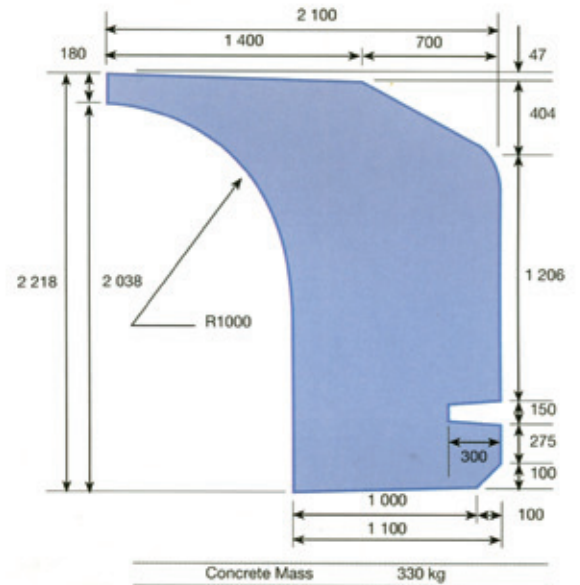
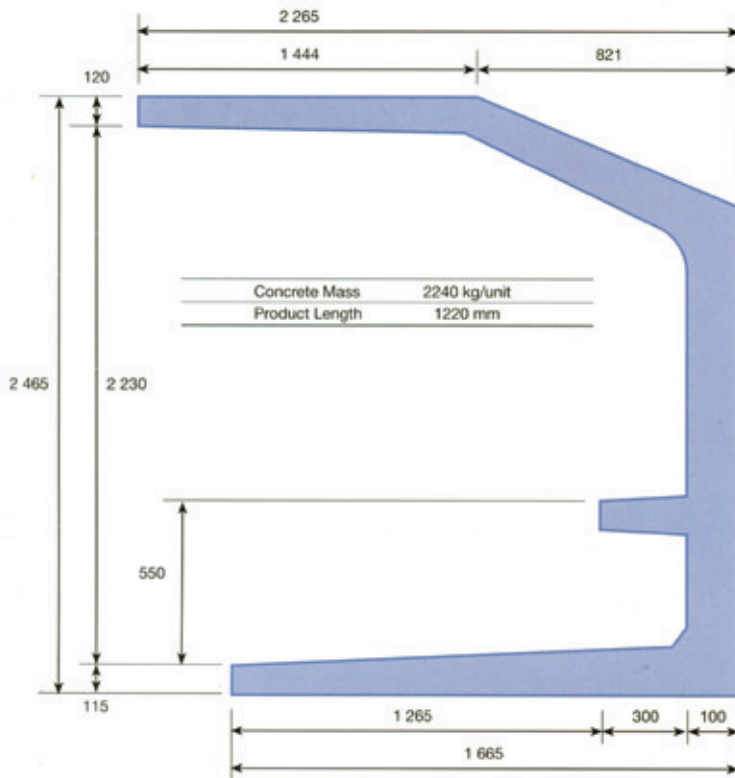


Round Chair Top with Cast In Pipe

APPROX. CONCRETE MASS: 70Kg

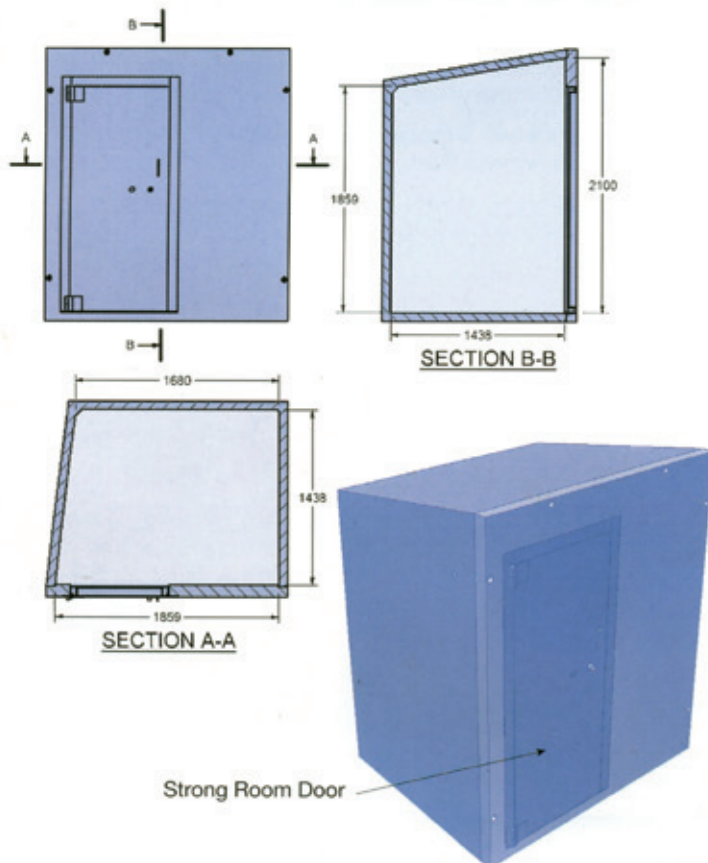


BUS SHELTER



Please note: Mass is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

SECURE SIGNAL HOUSE

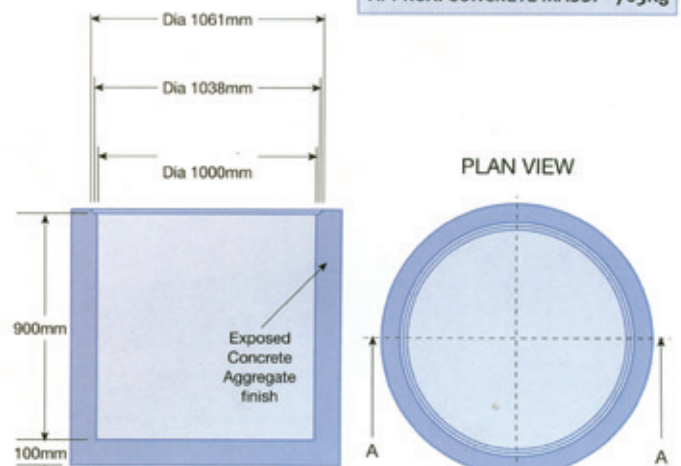


ROADSIDE DUSTBIN

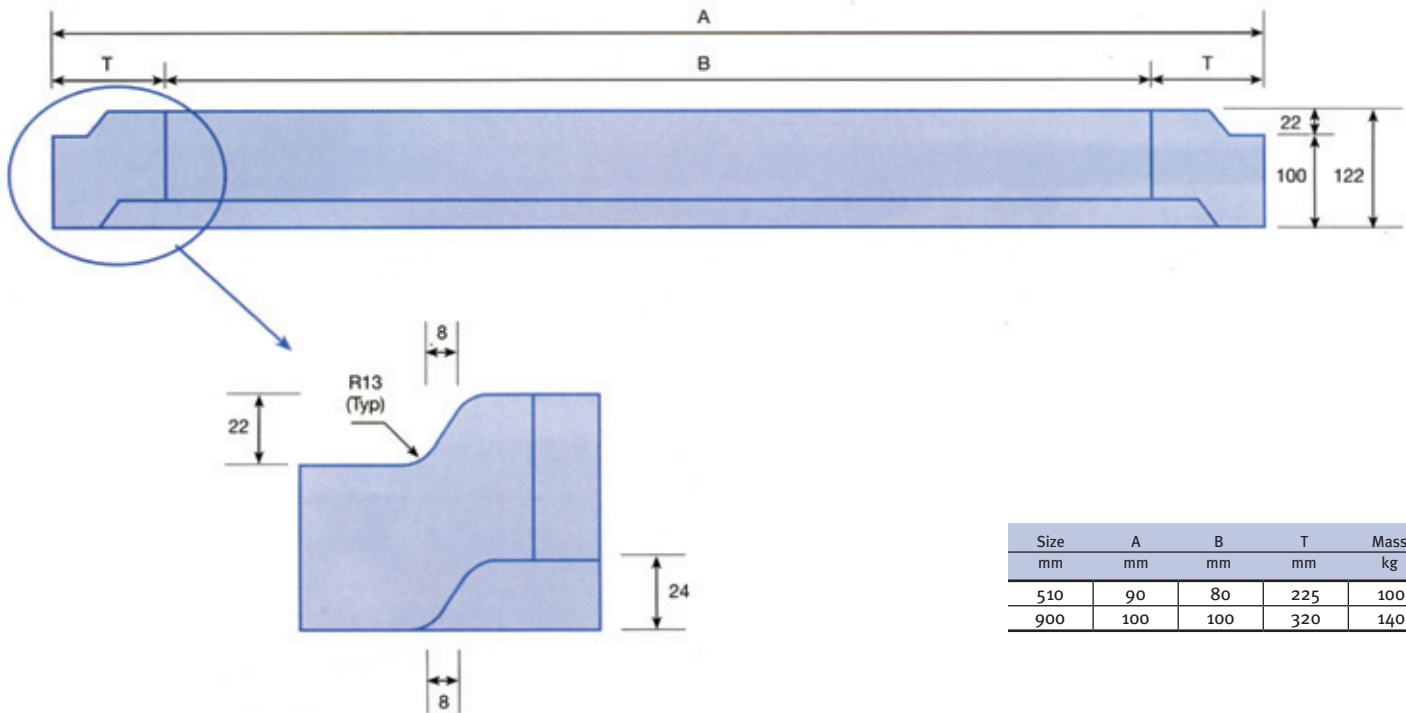
Notes:

- The exposed aggregate Roadside Dustbin manufactured by Rocla has become the standard for use along major motorways and in picnic areas, effectively replacing the traditional metal dustbin.
- Special design features include:
 - Aesthetically pleasing
 - Resistant to vandalism and fire
 - Maintenance free and long life design
 - Termite free
 - No scrap value
 - Large capacity 1000 x 1000mm diameter
- The Roadside Dustbin tackles the challenges of litter control by offering a quality long term product that is cost effective.

APPROX. CONCRETE MASS: 763Kg



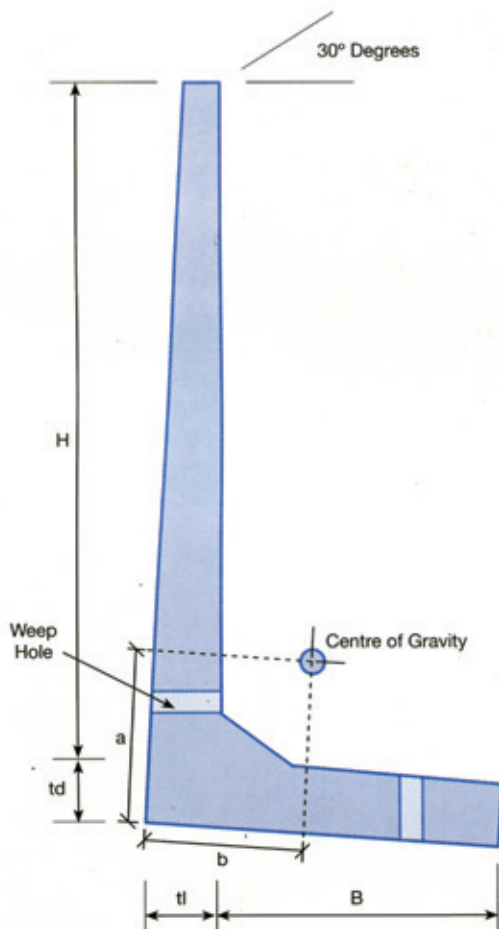
PENSTOCK RING



Size mm	A mm	B mm	T mm	Mass kg
510	90	80	225	100
900	100	100	320	140

Please note: Mass is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

RETAINING WALL



Notes:

Product Mass taken as 2580kg/m³.

Designed for a granular backfill with a surcharge angle equal to the angle of internal friction equal to 30 degrees and a compacted density of 1900 kg/m³.

All water pressure in the backfill is assumed to be relieved completely by weep holes.

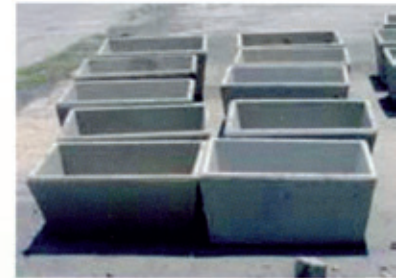
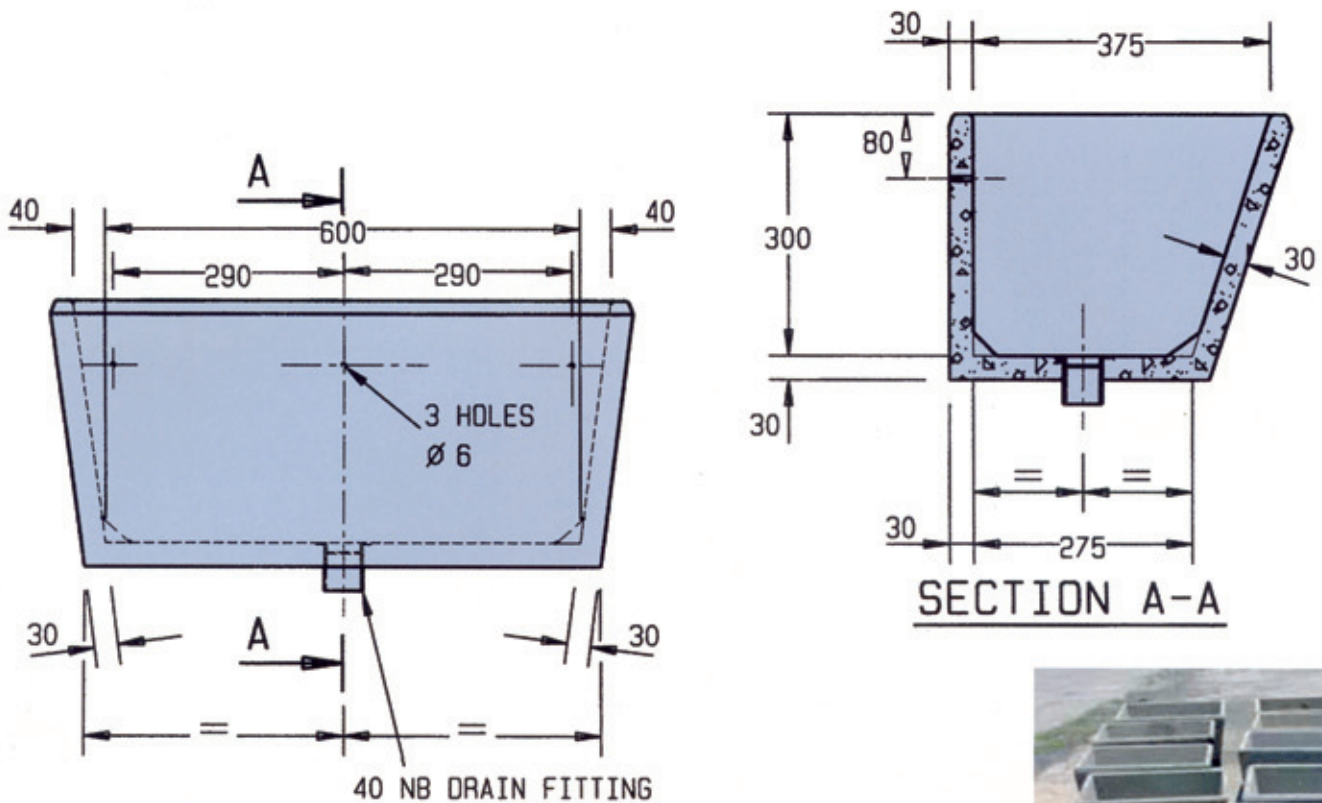
The stability against overturning, sliding settlement, etc must be estimated by a responsible Engineer.

The internal wall face to be vertical as indicated.

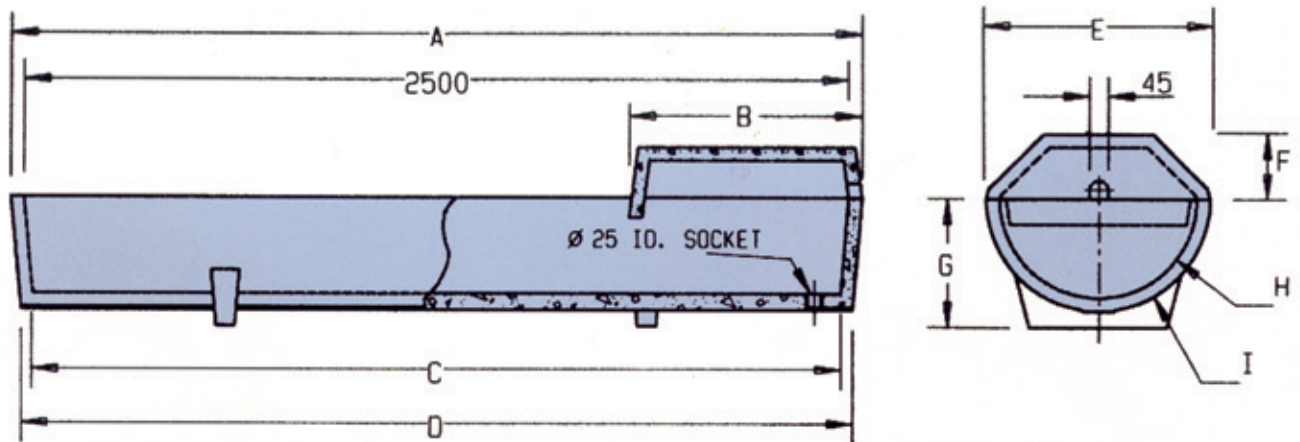
Size H & B	td mm	tl mm	a mm	b mm	Mass kg/m	kg/unit
600 x 300	90	80	225	100	203	248
900 x 450	100	100	320	140	346	422
1200 x 600	120	120	415	180	539	658
1500 x 750	125	125	485	215	691	843
1800 x 900	150	150	565	250	1003	1223
2100 x 1050	150	150	640	290	1126	1374
2400 x 1200	160	160	720	325	1343	1638
3000 x 1500	190	230	900	390	2300	2805

Please note: Mass per metre is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.

WASH TROUGH



STOCK TROUGH



Type 1 : 300mm diameter		Type 2 : 450mm diameter		Type 3 : 600mm diameter	
A :	2570mm	A :	2580mm	A :	2580mm
B :	640mm	B :	710mm	B :	710mm
C :	2444mm	C :	2420mm	C :	2452mm
D :	2500mm	D :	2486mm	D :	2520mm
E :	362mm	E :	533mm	E :	680mm
F :	155mm	F :	155mm	F :	175mm
G :	235mm	G :	315mm	G :	390mm
H :	R150mm	H :	R225mm	H :	R300mm
I :	R185mm	I :	R265mm	I :	R340mm
mass :	164kg		296kg		380kg
volume :	90 litres		200 litres		350 litres



Please note: Mass is an approximation only. Rocla cannot guarantee the exact mass as listed on this table.



ROCLA NATIONWIDE

Positioned to serve your needs, Rocla's 11 factories are strategically located throughout South Africa's nine provinces and in Namibia and Botswana.

South Africa and offshore markets are cost effectively supplied by road, rail and sea.

Made by modern processes, supervised in accordance with SABS Quality Management System, Rocla's factories make products that proudly carry the SABS Mark of Approval.

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