

## CAPPING BEAM REINFORCING TYPE 1

Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82				
										A	B	C	D	E or R
TYPE 1	1	7	Y	25	AM01	7	2 700,0	73	85	660	1520	310	450	
CAPPING BEAM	1	7	Y	16	AM02	7	1 850,0	20	38	700	160	1050		
REINFORCING	1	7	Y	12	AM03	7	1 140,0	7	99	SEE SKETCH				
	1	7	Y	16	AM04	7	2 100,0	23	37	715	1390			
	1	7	Y	16	AM05	7	1 650,0	18	37	300	1390			
	1	7	Y	12	AM06	7	1 250,0	8	99	SEE SKETCH				
	1	7	Y	16	AM07	7	2 000,0	22	54	200	1680	200		
	1	7	Y	12	AM08	7	2 500,0	16	85	550	1480	305	300	
	1	2	Y	16	AM09	2	1 600,0	5	20	1600				
	1	18	Y	16	AM10	18	1 500,0	43	38	650	275	650		
	1	18	Y	12	AM11	18	1 500,0	24	38	700	125	700		
	1	48	Y	25	B01	48	3 140,0	581	99	SEE SKETCH				
	1	48	Y	25	B02	48	2 300,0	425	38	660	1350	400		
	1	28	Y	25	B03	28	4 000,0	432	20	4000				
	1	56	Y	25	B04	56	2 200,0	475	37	660	1580			
	1	4	Y	40	B05	4	7 050,0	278	38	2690	1890	2690		
	1	4	Y	40	B06	4	7 350,0	290	49	2715	2715	1878	2690	2690
	1	4	Y	40	B07	4	7 500,0	296	49	2798	2798	1869	2678	2678
	1	4	Y	40	B08	4	7 750,0	306	49	2935	2935	1862	2674	2674
	1	4	Y	40	B09	4	8 100,0	320	49	3118	3118	1855	2669	2669
	1	4	Y	40	B10	4	8 550,0	337	49	3340	3340	1850	2666	2666
	1	7	Y	25	BS01	7	2 050,0	55	38	415	780	975		
	1	7	Y	25	BS02	7	3 250,0	88	20	3270				
	1	7	Y	25	BS03	7	3 500,0	94	37	980	2580			
	1	20	Y	25	BS04	20	2 200,0	170	37	660	1580			
	1	533	Y	25	C01	533	5 450,0	11193	62	1555	1530	3850		
	1	453	Y	25	C02	453	2 250,0	3928	62	1120	1100	1120		
	1	435	Y	25	C03	435	3 050,0	5112	37	2450	650			
	1	475	Y	25	C04	475	2 500,0	4576	20	2500				
	1	468	Y	25	C05	468	3 200,0	5771	37	650	2600			
	1	533	Y	25	C06	533	1 850,0	3800	37	350	1550			
	1	486	Y	12	C07	486	1 140,0	492	99	SEE SKETCH				
	1	466	Y	12	C08	466	1 815,0	751	99	SEE SKETCH				
	1	910	Y	16	C09	910	2 200,0	3160	37	350	1850			
	1	442	Y	16	C10	442	4 050,0	2825	37	350	3700			
	1	475	Y	12	C11	475	1 400,0	590	49	155	155	1065	118	118
	1	442	Y	12	C12	442	2 550,0	1001	37	500	2050			
	1	488	Y	12	C13	488	4 450,0	1928	38	2100	280	2100		
	1	488	Y	16	C14	488	2 550,0	1964	38	1160	280	1160		
	1	488	Y	16	C15	488	1 950,0	1502	38	900	230	900		
	1	523	Y	16	C16	523	4 050,0	3343	38	350	3400	350		
	1	974	Y	16	C17	974	2 200,0	3382	37	1850	350			
	1	523	Y	16	C18	523	4 450,0	3673	62	1590	1125	2825		
	1	523	Y	25	C19	523	2 850,0	5744	37	350	2550			
	1	523	Y	25	C20	523	2 450,0	4938	38	950	1280	350		
	1	38	Y	16	C21	38	1 850,0	111	38	850	230	850		
	1	36	Y	16	C22	36	1 900,0	108	38	850	280	850		
	1	36	Y	16	C23	36	1 900,0	108	38	850	260	850		
	1	32	Y	16	C24	32	2 500,0	126	37	850	1680			
	1	96	Y	16	C25	96	2 200,0	333	37	850	1350			
	1	32	Y	16	C26	32	3 350,0	169	37	850	2500			
	1	12	Y	16	C27	12	1 800,0	34	37	850	950			
	1	22	Y	12	C28	22	1 050,0	21	38	500	100	500		
	1	6	Y	16	C29	6	1 500,0	14	37	850	680			
	1	300	R	10	C30	300	450,0	83	85	110	260	60	70	
	1	320	R	10	C31	320	300,0	59	85	110	100	60	70	
	1	2	Y	25	LA01	2	2 300,0	18	38	900	605	900		
	1	4	Y	25	LA03	4	2 000,0	31	38	880	380	880		
	1	588	Y	25	L01	588	13 000,0	29455	20	13000				
	1	840	Y	16	L02	840	13 000,0	17235	20	13000				
	1	154	Y	12	L03	154	13 000,0	1777	20	13000				
	1	26	Y	25	P01	26	2 050,0	205	38	410	1095	660		
	1	26	Y	12	P02	26	1 200,0	28	38	530	160	530		
	1	26	Y	12	P03	26	940,0	22	99	SEE SKETCH				
	1	12	Y	12	P04	12	1 350,0	14	99	SEE SKETCH				
	1	12	Y	12	P05	12	1 200,0	13	38	530	160	530		
	1	84	Y	16	P06	84	2 050,0	272	37	1850	200			
	1	12	Y	12	P07	12	2 550,0	27	75	630	220	630	305	480
	1	12	Y	12	P08	12	2 800,0	30	75	700	220	705	305	555
	1	12	Y	12	P09	12	1 190,0	13	99	SEE SKETCH				
	1	14	Y	16	P10	14	2 900,0	64	85	170	1955	160	720	
	1	14	Y	12	P11	14	2 600,0	32	85	550	1755	305	150	

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Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82				
										A	B	C	D	E or R
	1	14	Y	12	P12	14	1 250,0	16	99	SEE SKETCH				
	1	14	Y	32	P13	14	3 450,0	305	37	1130	2380			
	1	14	Y	25	P14	14	4 250,0	229	37	660	3640			
	1	128	Y	12	P15	128	550,0	63	85	150	290	95	95	
	1	14	Y	20	P16	14	3 900,0	135	37	880	3040			
	1	14	Y	20	P17	14	4 400,0	152	38	2100	280	2100		
	1	18	Y	16	P18	18	1 400,0	40	38	650	135	650		
	1	18	Y	16	P19	18	3 550,0	101	38	1675	280	1675		
	1	18	Y	16	P20	18	1 450,0	41	38	650	195	650		
	1	18	Y	16	P21	18	3 550,0	101	38	1675	280	1675		
	1	2	Y	16	P22	2	1 600,0	5	20	1600				
	1	2	Y	16	P23	2	2 350,0	7	20	2350				
	1	32	Y	25	SM01	32	1 770,0	218	99	SEE SKETCH				
	1	32	Y	25	SM02	32	1 950,0	240	99	SEE SKETCH				
	1	32	Y	25	SM03	32	2 400,0	296	99	SEE SKETCH				
	1	32	Y	25	SM04	32	3 400,0	419	37	1220	2225			
	1	32	Y	25	SM05	32	1 900,0	234	38	660	695	660		
	1	36	Y	25	SM06	36	1 800,0	250	37	660	1180			
	1	36	Y	25	SM07	36	3 400,0	472	37	1220	2225			
	1	10	Y	12	SU01	10	1 950,0	17	62	1660	1175	260		
	1	10	Y	16	SU02	10	4 350,0	69	38	1340	130	2940		
	1	20	Y	12	SU03	20	2 400,0	43	38	1100	230	1100		
	1	10	Y	16	SU04	10	5 200,0	82	38	2560	130	2560		
	1	10	Y	12	SU05	10	2 950,0	26	38	1340	290	1340		
	1	10	Y	12	SU06	10	1 900,0	17	38	840	235	840		
	1	10	Y	12	SU07	10	1 950,0	17	38	930	130	930		
	1	10	Y	12	SU08	10	1 950,0	17	38	890	205	890		
	1	10	Y	12	SU09	10	2 200,0	20	38	1070	100	1070		
	1	10	Y	12	SU10	10	1 800,0	16	38	880	100	880		
	1	13	Y	25	TD01	13	2 000,0	100	38	660	1020	450		
	1	13	Y	16	TD02	13	1 150,0	24	20	1160				
	1	13	Y	16	TD03	13	3 900,0	80	99	SEE SKETCH				
	1	14	Y	25	U01	14	3 050,0	165	37	1220	1870			
	1	17	Y	25	U02	17	2 750,0	180	37	1370	1430			
	1	17	Y	25	U03	17	1 350,0	88	38	530	295	660		
	1	17	Y	25	U04	17	3 050,0	200	37	1220	1870			
	1	20	Y	25	U05	20	2 200,0	170	37	660	1580			
	1	10	Y	25	U06	10	4 000,0	154	20	4000				
	1	42	Y	16	A01A	42	4 250,0	282	38	3300	270	750		
	1	2	Y	16	A01B	2	4 450,0	14	38	3500	270	750		
	1	2	Y	16	A01C	2	4 750,0	15	38	3800	270	750		
	1	2	Y	16	A01D	2	5 050,0	16	38	4100	270	750		
	1	2	Y	16	A01E	2	5 350,0	17	38	4400	270	750		
	1	2	Y	16	A01F	2	5 650,0	18	38	4700	270	750		
	1	2	Y	16	A01G	2	5 950,0	19	38	5000	270	750		
	1	2	Y	16	A01H	2	6 250,0	20	38	5300	270	750		
	1	2	Y	16	A01J	2	6 550,0	21	38	5600	270	750		
	1	2	Y	16	A01K	2	6 850,0	22	38	5900	270	750		
	1	2	Y	16	A01L	2	7 150,0	23	38	6200	270	750		
	1	2	Y	16	A01M	2	7 450,0	24	38	6500	270	750		
	1	84	Y	16	A02A	84	3 400,0	451	38	1600	280	1600		
	1	24	Y	16	A02B	24	3 550,0	135	38	1600	395	1600		
	1	74	Y	16	A03	74	1 650,0	193	49	285	285	1035	200	200
	1	84	Y	16	A04	84	1 750,0	232	37	1600	175			
	1	21	Y	16	A05	21	2 000,0	66	99	SEE SKETCH				
	1	46	Y	16	A06A	46	7 200,0	523	37	6950	250			
	1	4	Y	16	A06B	4	4 050,0	26	37	3825	250			
	1	4	Y	16	A06C	4	3 900,0	25	37	3675	250			
	1	4	Y	16	A06D	4	3 750,0	24	37	3525	250			
	1	4	Y	16	A06E	4	3 600,0	23	37	3375	250			
	1	4	Y	16	A06F	4	3 450,0	22	37	3225	250			
	1	4	Y	16	A06G	4	3 300,0	21	37	3075	250			
	1	4	Y	16	A06H	4	3 150,0	20	37	2925	250			
	1	4	Y	16	A06J	4	3 000,0	19	37	2775	250			
	1	4	Y	16	A06K	4	2 850,0	18	37	2625	250			
	1	4	Y	16	A06L	4	2 700,0	17	37	2475	250			
	1	4	Y	16	A06M	4	2 550,0	16	37	2325	250			
	1	4	Y	16	A06N	4	2 400,0	15	37	2175	250			
	1	42	Y	16	A07	42	4 200,0	278	38	3300	230	750		
	1	22	Y	16	A08B	22	6 300,0	219	20	6340				
	1	22	Y	16	A08C	22	6 000,0	208	20	6040				
	1	22	Y	16	A08D	22	5 700,0	198	20	5740				
	1	22	Y	16	A08E	22	5 400,0	188	20	5440				

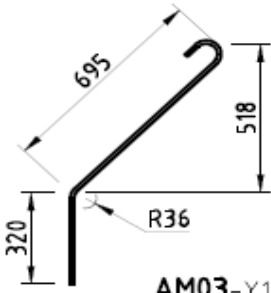
## CAPPING BEAM REINFORCING TYPE 1

Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82				
										A	B	C	D	E or R
	1	22	Y	16	A08F	22	5 100,0	177	20	5140				
	1	22	Y	16	A08G	22	4 800,0	167	20	4840				
	1	22	Y	16	A08H	22	4 500,0	156	20	4540				
	1	22	Y	16	A08J	22	4 200,0	146	20	4240				
	1	22	Y	16	A08K	22	3 900,0	135	20	3940				
	1	22	Y	16	A08L	22	3 600,0	125	20	3640				
	1	22	Y	16	A08M	22	3 300,0	115	20	3340				
	1	22	Y	16	A09B	22	6 800,0	236	55	750	195	5060	195	750
	1	22	Y	16	A09C	22	6 650,0	231	55	750	195	4910	195	750
	1	22	Y	16	A09D	22	6 500,0	226	55	750	195	4760	195	750
	1	22	Y	16	A09E	22	6 350,0	221	55	750	195	4610	195	750
	1	22	Y	16	A09F	22	6 200,0	215	55	750	195	4460	195	750
	1	22	Y	16	A09G	22	6 050,0	210	55	750	195	4310	195	750
	1	22	Y	16	A09H	22	5 900,0	205	55	750	195	4160	195	750
	1	22	Y	16	A09J	22	5 750,0	200	55	750	195	4010	195	750
	1	22	Y	16	A09K	22	5 600,0	195	55	750	195	3860	195	750
	1	22	Y	16	A09L	22	5 450,0	189	55	750	195	3710	195	750
	1	22	Y	16	A09M	22	5 300,0	184	55	750	195	3560	195	750
	1	22	Y	16	A10B	22	3 750,0	130	55	750	290	1820	290	750
	1	22	Y	16	A10C	22	3 600,0	125	55	750	290	1670	290	750
	1	22	Y	16	A10D	22	3 450,0	120	55	750	290	1520	290	750
	1	22	Y	16	A10E	22	3 300,0	115	55	750	290	1370	290	750
	1	22	Y	16	A10F	22	3 150,0	109	55	750	290	1220	290	750
	1	22	Y	16	A10G	22	3 000,0	104	55	750	290	1070	290	750
	1	22	Y	16	A10H	22	2 850,0	99	55	750	290	920	290	750
	1	22	Y	16	A10J	22	2 700,0	94	55	750	290	770	290	750
	1	22	Y	16	A10K	22	2 550,0	89	55	750	290	620	290	750
	1	22	Y	16	A10L	22	2 400,0	83	55	750	290	470	290	750
	1	22	Y	16	A10M	22	2 250,0	78	55	750	290	320	290	750
	1	46	Y	16	A11A	46	7 100,0	516	37	6950	180		290	
	1	2	Y	16	A11B	2	4 000,0	13	37	3825	180			
	1	2	Y	16	A11C	2	3 850,0	12	37	3675	180			
	1	2	Y	16	A11D	2	3 700,0	12	37	3525	180			
	1	2	Y	16	A11E	2	3 550,0	11	37	3375	180			
	1	2	Y	16	A11F	2	3 400,0	11	37	3225	180			
	1	2	Y	16	A11G	2	3 250,0	10	37	3075	180			
	1	2	Y	16	A11H	2	3 100,0	10	37	2925	180			
	1	2	Y	16	A11J	2	2 950,0	9	37	2775	180			
	1	2	Y	16	A11K	2	2 800,0	9	37	2625	180			
	1	2	Y	16	A11L	2	2 650,0	8	37	2475	180			
	1	2	Y	16	A11M	2	2 500,0	8	37	2325	180			
	1	2	Y	16	A11N	2	2 350,0	7	37	2175	180			
	1	2	Y	16	A12A	2	4 100,0	13	37	3825	270			
	1	2	Y	16	A12B	2	3 950,0	13	37	3675	270			
	1	2	Y	16	A12C	2	3 800,0	12	37	3525	270			
	1	2	Y	16	A12D	2	3 650,0	12	37	3375	270			
	1	2	Y	16	A12E	2	3 500,0	11	37	3225	270			
	1	2	Y	16	A12F	2	3 350,0	11	37	3075	270			
	1	2	Y	16	A12G	2	3 200,0	10	37	2925	270			
	1	2	Y	16	A12H	2	3 050,0	10	37	2775	270			
	1	2	Y	16	A12J	2	2 900,0	9	37	2625	270			
	1	2	Y	16	A12K	2	2 750,0	9	37	2475	270			
	1	2	Y	16	A12L	2	2 600,0	8	37	2325	270			
	1	2	Y	16	A12M	2	2 450,0	8	37	2175	270			
	1	24	Y	12	A13	24	1 500,0	32	38	650	250	650		
	1	24	Y	12	A14	24	4 700,0	100	49	980	980	2715	695	695
	1	24	Y	12	A15	24	4 300,0	92	49	885	885	2525	625	625
	1	12	Y	12	A16	12	550,0	6	38	250	105	250		
	1	24	Y	12	A17	24	850,0	18	20	880				
	1	1	Y	12	A18	1	1 350,0	1	38	250	880	250		
	1	16	R	8	A19	16	300,0	2	85	75	130	48	50	
	1	36	R	10	A20	36	450,0	10	85	100	280	60	60	
	1	18	R	10	A21	18	600,0	7	85	100	395	60	60	
	1	96	Y	12	A22	96	1 500,0	128	62	750	530	750		

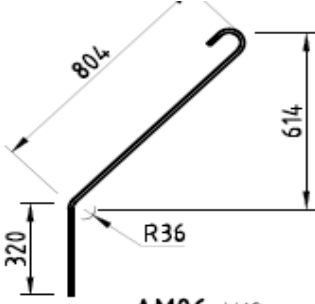
## CAPPING BEAM REINFORCING TYPE 1

Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82				
										A	B	C	D	E or R

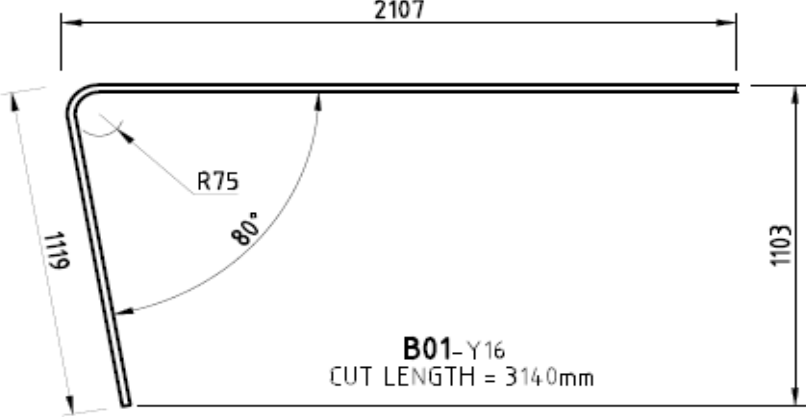
  



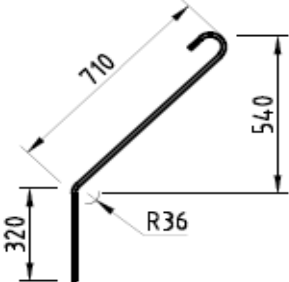
**AM03-Y12**  
CUT LENGTH = 1140mm



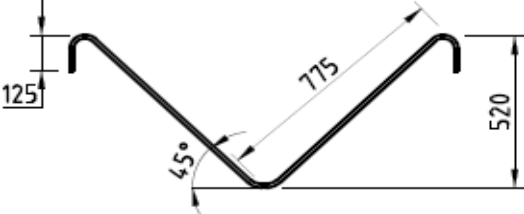
**AM06-Y12**  
CUT LENGTH = 1250mm



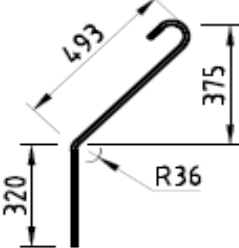
**B01-Y16**  
CUT LENGTH = 3140mm



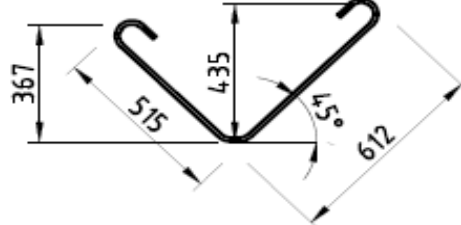
**C07-Y12**  
CUT LENGTH = 1140mm



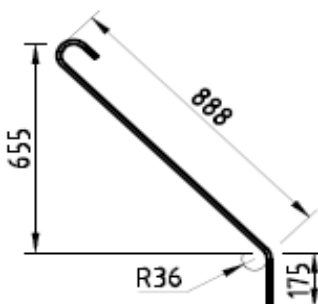
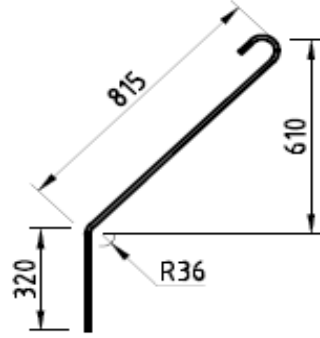
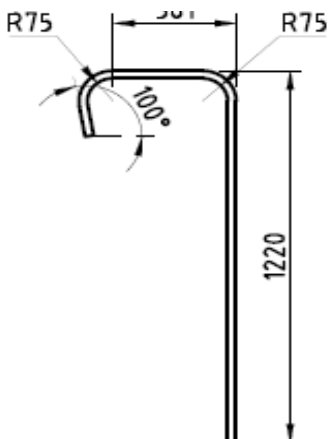
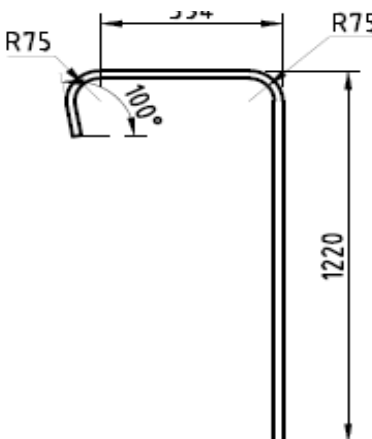
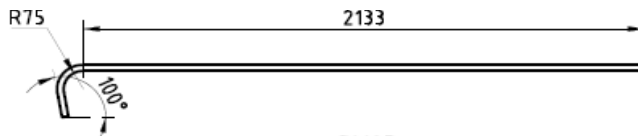
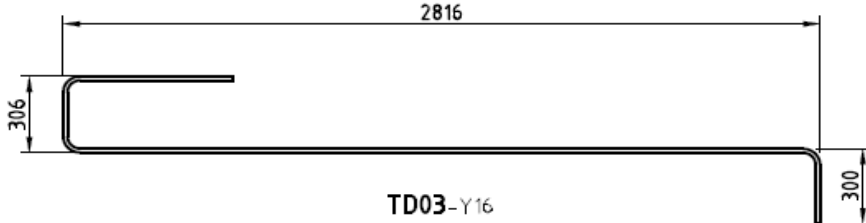


**C08-Y12**  
CUT LENGTH = 1815mm



**P03-Y12**  
CUT LENGTH = 940mm



**P04-Y12**  
CUT LENGTH = 1350mm

Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82																																													
										A	B	C	D	E or R																																									
<div><div><p><b>P09-Y12</b> CUT LENGTH = 1190mm</p></div><div><p><b>P12-Y12</b> CUT LENGTH = 1250mm</p></div><div><p><b>SM01-Y25</b> CUT LENGTH = 1770mm</p></div><div><p><b>SM02-Y25</b> CUT LENGTH = 1950mm</p></div><div><p><b>SM03-Y25</b> CUT LENGTH = 2400mm</p></div><div><p><b>TD03-Y16</b> CUT LENGTH = 3900mm</p></div></div>																																																							
<div><div><div><div>Engineers</div><div></div><div>ORIGINATOR: ZAA</div><div>Date: 2019.07.26</div><div>Compiled: AS</div><div>Checked: MC</div><div>Approved: J ZIETSMAN Pr Eng</div><div>Signed:</div></div><div><table><tr><td rowspan="6">MILD STEEL</td><td>R8</td><td>1,9</td></tr><tr><td>R10</td><td>159,1</td></tr><tr><td>R12</td><td>0</td></tr><tr><td>R16</td><td>0</td></tr><tr><td>R20</td><td>0</td></tr><tr><td>R32</td><td>0</td></tr><tr><td colspan="2">TOTAL R BARS =</td><td>161 kg</td></tr></table></div><div><table><tr><td rowspan="7">HIGH YIELD STEEL</td><td>Y10</td><td>0</td></tr><tr><td>Y12</td><td>7 421</td></tr><tr><td>Y16</td><td>47 766</td></tr><tr><td>Y20</td><td>287</td></tr><tr><td>Y25</td><td>80 577</td></tr><tr><td>Y32</td><td>305</td></tr><tr><td>Y40</td><td>1 827</td></tr><tr><td colspan="2">TOTAL Y BARS =</td><td>138 183 kg</td></tr></table></div><div><div><div>TRANSNET</div></div><div>Transnet National Ports Authority</div><div>Date:</div><div>Name:</div><div>Signed:</div></div></div></div> <tr><td colspan="11"><div><div><div>ZAA SCHEDULE No. 1785-CO-090-C-SCH-0005-01 T0A</div><div>ZAA REFERENCE DRAWING 1785-CO-090-C-DWG-0005</div></div><div><div>DCT BERTHS 203 to 205 RECONSTRUCTION DEEPENING AND LENGTHENING</div><div>REINFORCEMENT SCHEDULE CAPPING BEAM TYPE 1</div></div><div><div>TNPA SCHEDULE No. 2122830-1-090-C-SC-1004-01 T0A</div><div>TNPA REFERENCE DRAWING 2122830-1-090-C-GA-1004</div></div></div></td></tr>											MILD STEEL	R8	1,9	R10	159,1	R12	0	R16	0	R20	0	R32	0	TOTAL R BARS =		161 kg	HIGH YIELD STEEL	Y10	0	Y12	7 421	Y16	47 766	Y20	287	Y25	80 577	Y32	305	Y40	1 827	TOTAL Y BARS =		138 183 kg	<div><div><div>ZAA SCHEDULE No. 1785-CO-090-C-SCH-0005-01 T0A</div><div>ZAA REFERENCE DRAWING 1785-CO-090-C-DWG-0005</div></div><div><div>DCT BERTHS 203 to 205 RECONSTRUCTION DEEPENING AND LENGTHENING</div><div>REINFORCEMENT SCHEDULE CAPPING BEAM TYPE 1</div></div><div><div>TNPA SCHEDULE No. 2122830-1-090-C-SC-1004-01 T0A</div><div>TNPA REFERENCE DRAWING 2122830-1-090-C-GA-1004</div></div></div>										
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