

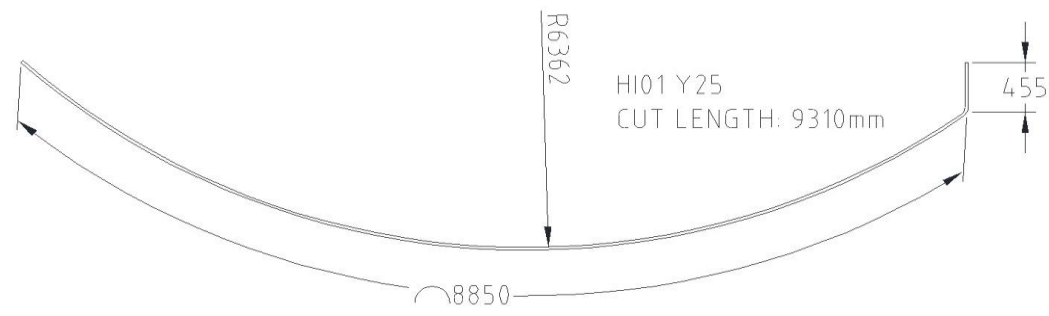
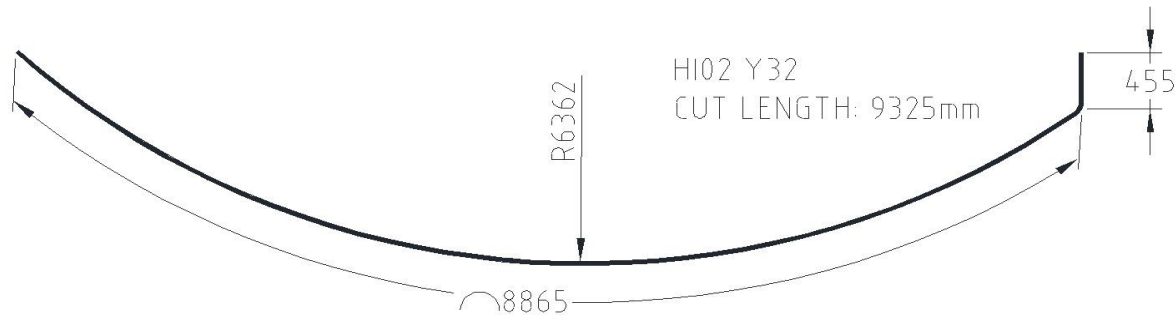
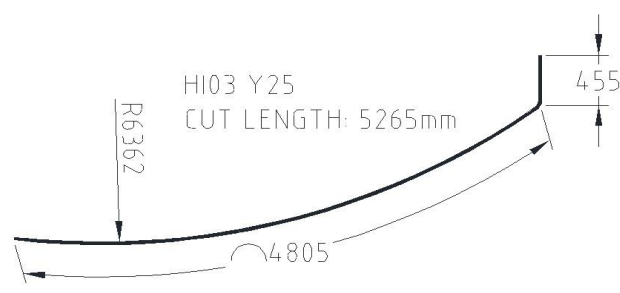
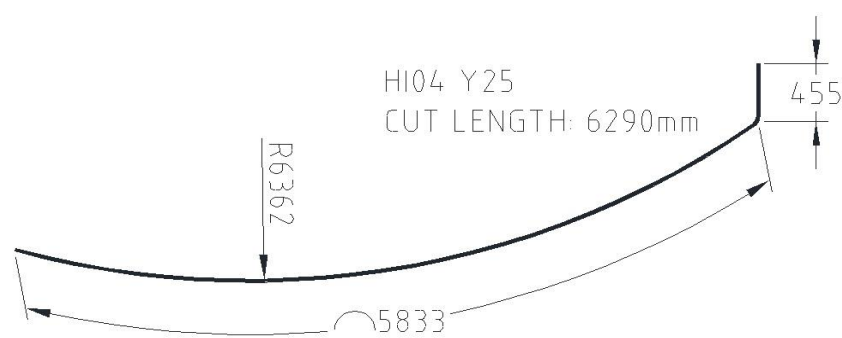
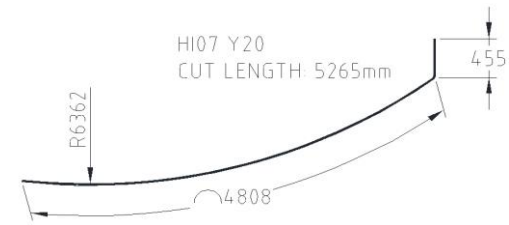
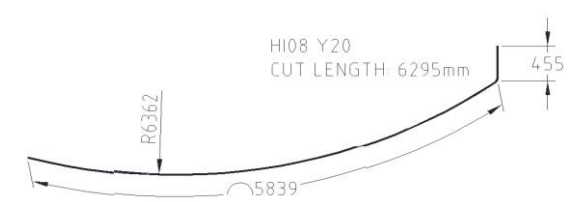
## CAISSON TYPE 1 WALL

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
<b>TYPE 1 CAISSON WALLS</b>	65	128	Y	25	HI01	8320	9 310,0	298478	99	SEE SKETCH				6362
	65	220	Y	32	HI02	14300	9 325,0	841869	99	SEE SKETCH				6362
	65	32	Y	25	HI03	2080	5 265,0	42199	99	SEE SKETCH				6362
	65	32	Y	25	HI04	2080	6 290,0	50414	99	SEE SKETCH				6362
	65	96	Y	32	HI05	6240	5 100,0	200916	65	5100				6362
	65	96	Y	32	HI06	6240	4 100,0	161521	65	4100				6362
	65	96	Y	20	HI07	6240	5 265,0	81022	99	SEE SKETCH				6362
	65	96	Y	20	HI08	6240	6 295,0	96872	99	SEE SKETCH				6362
	65	32	Y	25	HI09	2080	5 100,0	40876	65	5100				
	65	32	Y	25	HI10	2080	4 100,0	32862	65	4100				
	65	192	Y	25	HI11	12480	10 580,0	508792	99	SEE SKETCH				19776
	65	64	Y	20	HI12	4160	10 570,0	108440	99	SEE SKETCH				19776
	65	34	Y	32	HI13	2210	10 590,0	147757	99	SEE SKETCH				19776
	65	4	Y	32	HI14A	260	1 805,0	2963	99	SEE SKETCH				
	65	4	Y	32	HI14B	260	1 930,0	3168	99	SEE SKETCH				
	65	4	Y	32	HI14C	260	2 055,0	3373	99	SEE SKETCH				
	65	4	Y	32	HI14D	260	2 180,0	3578	99	SEE SKETCH				
	65	4	Y	32	HI14E	260	2 305,0	3784	99	SEE SKETCH				
	65	4	Y	32	HI14F	260	2 430,0	3989	99	SEE SKETCH				
	65	12678	Y	10	H01	824070	500,0	254035	85	120	280	80	80	
	65	24	Y	20	H02	1560	1 800,0	6925	38	800	280	800		
	65	256	Y	20	HO01	16640	9 370,0	384514	99	SEE SKETCH				6622
	65	256	Y	25	HO02	16640	9 370,0	600804	99	SEE SKETCH				6617
	65	92	Y	32	HO03	5980	9 370,0	353753	99	SEE SKETCH				6610
	65	190	Y	25	HO04	12350	10 230,0	486835	99	SEE SKETCH				20030
	65	100	Y	32	HO05	6500	10 230,0	419806	99	SEE SKETCH				20024
	65	4	Y	25	HO06A	260	1 635,0	1638	99	SEE SKETCH				20030
	65	4	Y	25	HO06B	260	1 760,0	1763	99	SEE SKETCH				20030
	65	4	Y	25	HO06C	260	1 885,0	1889	99	SEE SKETCH				20030
	65	4	Y	25	HO06D	260	2 010,0	2014	99	SEE SKETCH				20030
	65	4	Y	25	HO06E	260	2 135,0	2139	99	SEE SKETCH				20030
	65	4	Y	25	HO06F	260	2 260,0	2264	99	SEE SKETCH				20030
	65	152	Y	20	V01	9880	1 750,0	42640	38	800	230	800		
	65	24	Y	20	V02	1560	3 350,0	12888	38	1600	220	1600		
	65	72	Y	20	V03	4680	2 550,0	29431	38	1200	220	1200		
	65	122	Y	20	VI01	7930	6 000,0	117339	20	6000				
	65	378	Y	20	VI02	24570	7 000,0	424153	20	7000				
	65	76	Y	20	VI03	4940	5 800,0	70660	20	5800				
	65	80	Y	20	VI04	5200	4 800,0	61555	20	4800				
	65	46	Y	20	VI05	2990	5 100,0	37606	20	5100				
	65	48	Y	20	VI06	3120	4 100,0	31547	20	4100				
	65	48	Y	25	VO01	3120	6 000,0	72135	20	6000				
	65	52	Y	25	VO02	3380	5 000,0	65122	20	5000				
	65	52	Y	25	VO03	3380	4 000,0	52097	20	4000				
	65	152	Y	25	VO04	9880	6 000,0	228427	20	6000				
	65	152	Y	20	VO05	9880	6 000,0	146193	20	6000				
	65	48	Y	20	VO06	3120	1 800,0	13850	20	1800				
	65	52	Y	20	VO07	3380	2 800,0	23340	20	2800				
	65	52	Y	20	VO08	3380	3 800,0	31675	20	3800				
	65	186	Y	20	VO09	12090	6 000,0	178895	20	6000				
	65	140	Y	20	VO10	9100	7 000,0	157094	20	7000				
	65	48	Y	20	VO11	3120	5 000,0	38472	20	5000				
	65	304	Y	20	N01	19760	3 700,0	180305	99	SEE SKETCH				
	65	304	Y	12	N02	19760	1 100,0	19298	85	144	845	96	96	
	65	304	Y	12	N03	19760	1 300,0	22806	85	144	1025	96	96	
	65	304	R	10	N04	19760	850,0	10355	45	325	125	380	285	
	65	304	R	10	N05	19760	900,0	10965	49	325	380	175	285	315
	65	180	Y	20	N06	11700	6 000,0	173124	20	6000				
	65	60	Y	20	N07	3900	1 600,0	15389	20	1600				

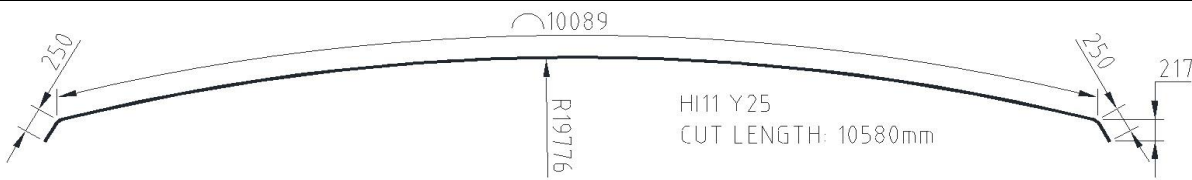
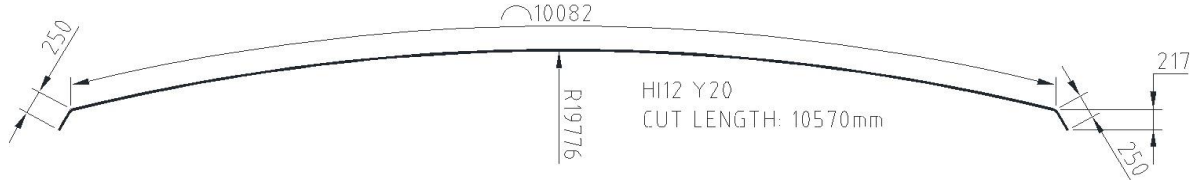
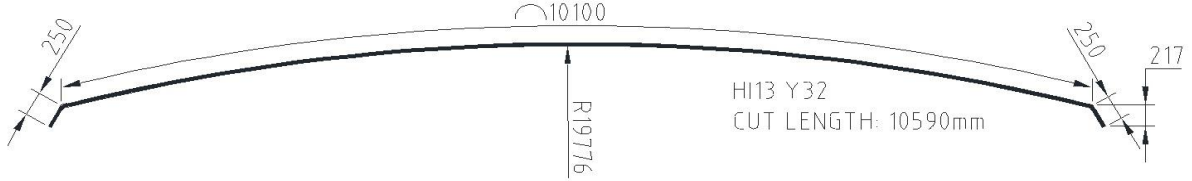
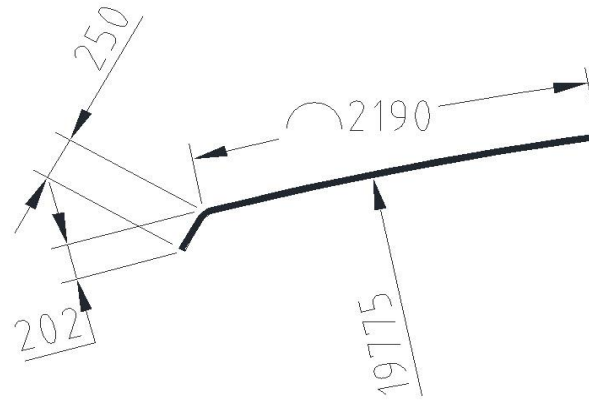
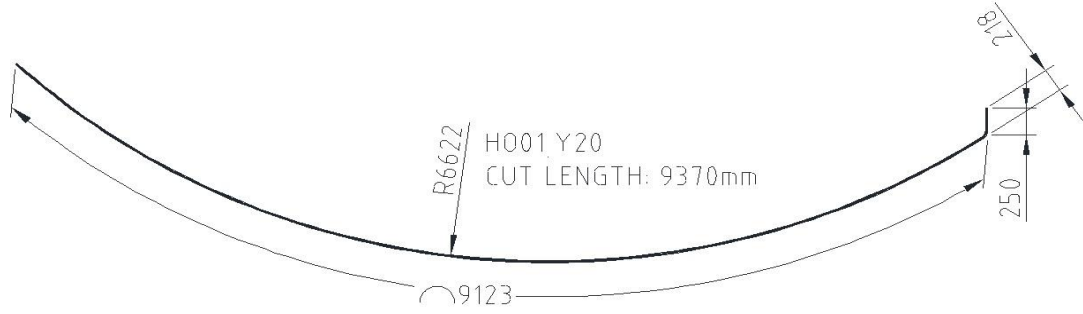
### CAISSON TYPE 1 WALL

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
	65	28	Y	25	CV01	1820	6 000,0	42079	20	6000				
	65	24	Y	25	CV02	1560	5 000,0	30056	20	5000				
	65	52	Y	20	CV03	3380	6 000,0	50014	20	6000				
	65	28	Y	20	CV04	1820	5 550,0	24911	20	5550				
	65	24	Y	20	CV05	1560	6 550,0	25199	20	6550				
	65	2	Y	20	CV06A	130	8 350,0	2677	60	3715	280			
	65	2	Y	20	CV06B	130	7 950,0	2549	60	3525	280			
	65	2	Y	20	CV06C	130	7 550,0	2421	60	3325	280			
	65	2	Y	20	CV06D	130	7 150,0	2292	60	3125	280			
	65	2	Y	20	CV06E	130	6 850,0	2196	60	2965	280			
	65	2	Y	20	CV06F	130	6 650,0	2132	60	2865	280			
	65	2	Y	20	CV06G	130	6 450,0	2068	60	2765	280			
	65	2	Y	20	CV06H	130	6 250,0	2004	60	2665	280			
	65	2	Y	20	CV06I	130	6 050,0	1940	60	2565	280			
	65	2	Y	20	CV06J	130	5 850,0	1876	60	2465	280			
	65	22	Y	20	CV07	1430	5 550,0	19573	60	2320	280			
	65	91	Y	20	CV08	5915	1 800,0	26257	38	800	280	800		
	65	48	Y	25	CH01	3120	4 650,0	55905	38	3000	280	1500		
	65	48	Y	25	CH02	3120	7 450,0	89568	20	7450				
	65	64	Y	25	CH03	4160	4 050,0	64921	38	1950	280	1950		
	65	76	Y	25	CH04	4940	3 550,0	67576	38	1850	280	1550		
	65	76	Y	25	CH05	4940	2 800,0	53300	38	1450	280	1150		
	65	96	Y	20	CH06	6240	3 600,0	55400	38	1850	280	1550		
	65	96	Y	20	CH07	6240	2 400,0	36933	38	1250	280	950		
	65	38	Y	25	CH08	2470	4 250,0	40451	38	2200	280	1900		
	65	2	Y	25	CH09A	130	4 150,0	2079	38	2000	280	2000		
	65	2	Y	25	CH09B	130	3 900,0	1954	38	1875	280	1875		
	65	2	Y	25	CH09C	130	3 650,0	1828	38	1750	280	1750		
	65	2	Y	25	CH09D	130	3 400,0	1703	38	1625	280	1625		
	65	2	Y	25	CH09E	130	3 150,0	1578	38	1500	280	1500		
	65	2	Y	25	CH09F	130	2 900,0	1453	38	1375	280	1375		
	65	12	Y	25	CH10	780	2 650,0	7965	38	1250	280	1250		
	65	36	Y	32	CH11	2340	9 170,0	135471	99	SEE SKETCH				
	65	2	Y	25	CH12A	130	9 100,0	4559	38	200	8850	200		
	65	2	Y	25	CH12B	130	9 000,0	4508	38	200	8750	200		
	65	2	Y	25	CH12C	130	8 900,0	4458	38	200	8650	200		
	65	2	Y	25	CH12D	130	8 800,0	4408	38	200	8550	200		
	65	2	Y	25	CH12E	130	8 750,0	4383	38	200	8450	200		
	65	152	Y	20	CH13	9880	2 100,0	51168	20	2100				
	65	16	Y	32	CH14	1040	4 000,0	26264	20	4000				
	65	138	Y	10	H01	8970	500,0	2765	85	120	280	80	80	
Storm water opening	16	28	Y	25	B01	448	3 500,0	6042	38	1700	216	1700		
	16	44	Y	16	B02	704	1 550,0	1722	99	SEE SKETCH				
	16	2	Y	25	B03	32	6 300,0	777	99	SEE SKETCH				
	16	2	Y	25	B04	32	5 720,0	705	99	SEE SKETCH				
	16	2	Y	25	B05	32	6 300,0	777	99	SEE SKETCH				
	16	2	Y	25	B06	32	5 720,0	705	99	SEE SKETCH				

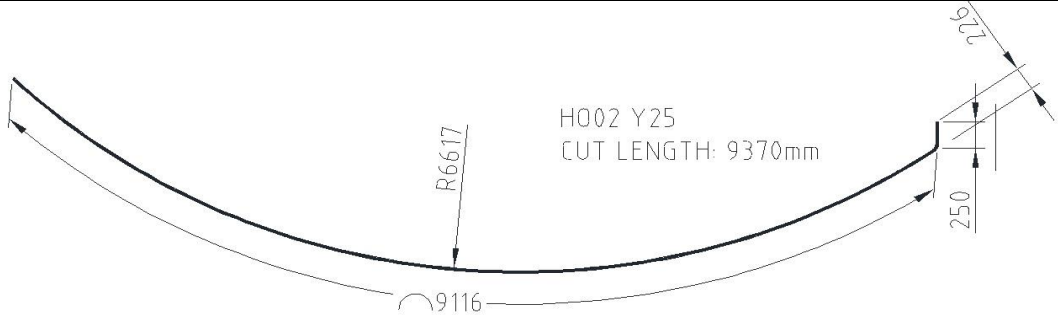
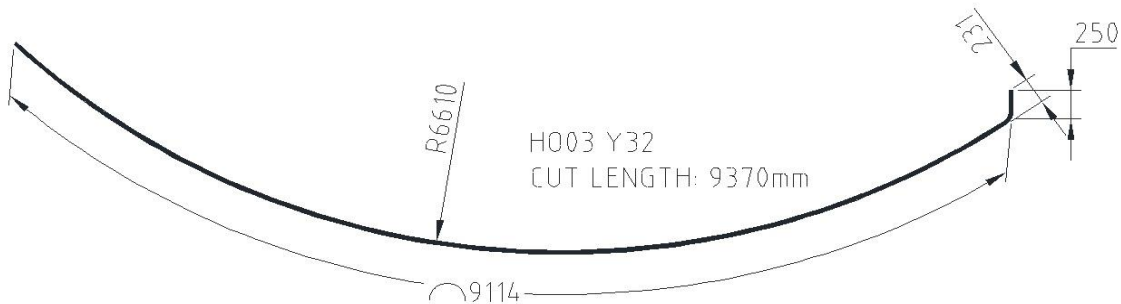
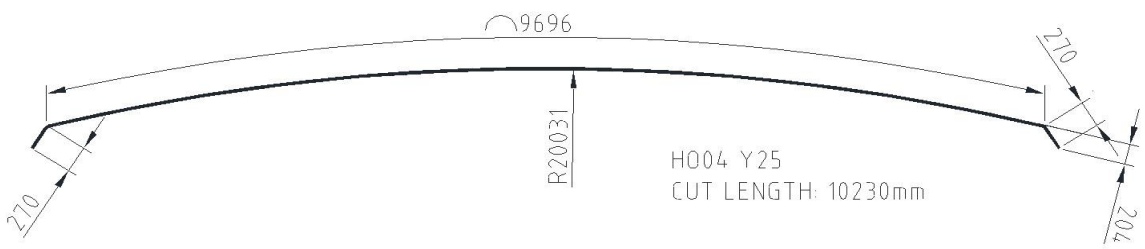
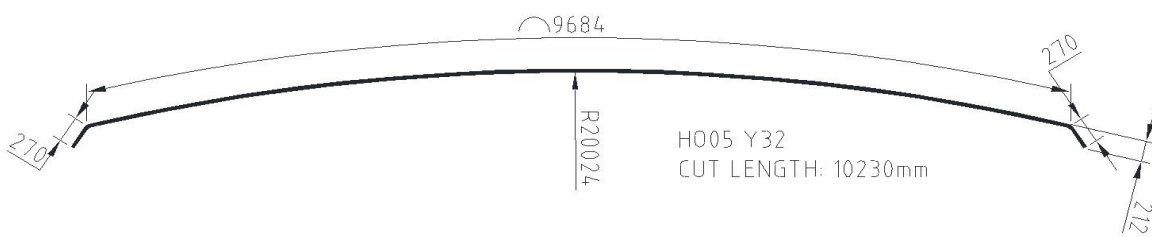
CAISSON TYPE 1 WALL

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>HI01 Y25 CUT LENGTH: 9310mm</p></div><div><p>HI02 Y32 CUT LENGTH: 9325mm</p></div><div><p>HI03 Y25 CUT LENGTH: 5265mm</p></div><div><p>HI04 Y25 CUT LENGTH: 6290mm</p></div><div><p>HI07 Y20 CUT LENGTH: 5265mm</p></div><div><p>HI08 Y20 CUT LENGTH: 6295mm</p></div></div>															

CAISSON TYPE 1 WALL

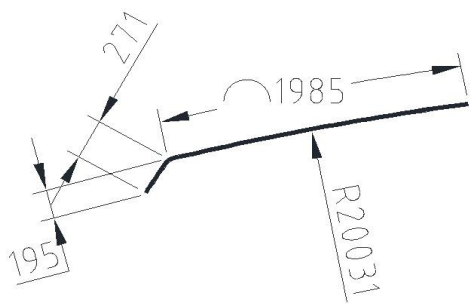
Member	No of Mbrs	No in Each	Y or R	Dia Size	Bar Mark	Total No	Cut Length	Mass kg	Shape Code	Dimensions to SABS 82					
										A	B	C	D	E or R	
															
HI11 Y25 CUT LENGTH: 10580mm															
															
HI12 Y20 CUT LENGTH: 10570mm															
															
HI13 Y32 CUT LENGTH: 10590mm															
															
HI14A-F Y32															
A - ARC LENGTH = 1565mm   CUT LENGTH = 1805mm															
B - ARC LENGTH = 1690mm   CUT LENGTH = 1930mm															
C - ARC LENGTH = 1815mm   CUT LENGTH = 2055mm															
D - ARC LENGTH = 1940mm   CUT LENGTH = 2180mm															
E - ARC LENGTH = 2065mm   CUT LENGTH = 2305mm															
F - ARC LENGTH = 2190mm   CUT LENGTH = 2430mm															
															
H001 Y20 CUT LENGTH: 9370mm															

CAISSON TYPE 1 WALL

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	
 <p>H002 Y25 CUT LENGTH: 9370mm</p> <p>9116</p>															
 <p>H003 Y32 CUT LENGTH: 9370mm</p> <p>9114</p>															
 <p>H004 Y25 CUT LENGTH: 10230mm</p> <p>9696</p>															
 <p>H005 Y32 CUT LENGTH: 10230mm</p> <p>9684</p>															

CAISSON TYPE 1 WALL

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

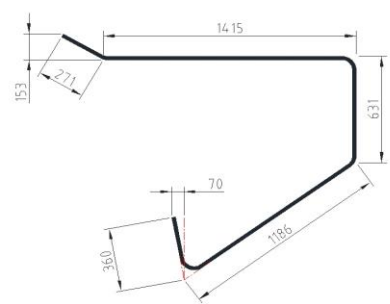


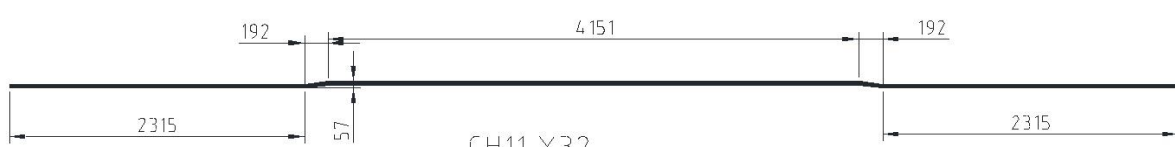
H006A-F Y25

A - ARC LENGTH = 1360mm	CUT LENGTH = 1635mm
B - ARC LENGTH = 1485mm	CUT LENGTH = 1760mm
C - ARC LENGTH = 1610mm	CUT LENGTH = 1885mm
D - ARC LENGTH = 1735mm	CUT LENGTH = 2010mm
E - ARC LENGTH = 1860mm	CUT LENGTH = 2135mm
F - ARC LENGTH = 1985mm	CUT LENGTH = 2260mm

N01 Y20

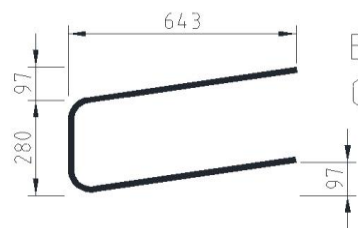
CUT LENGTH: 3700mm





CH11 Y32

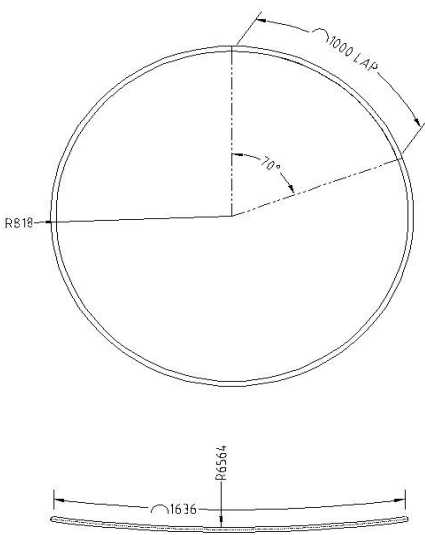
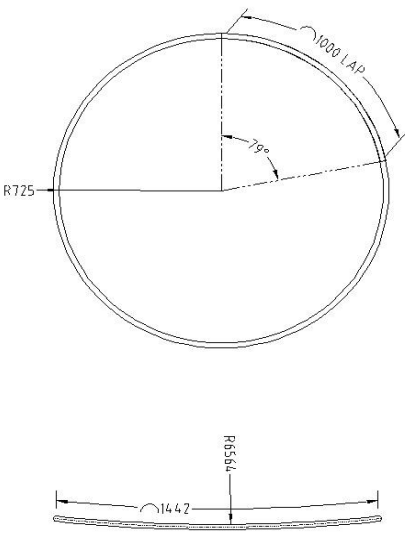
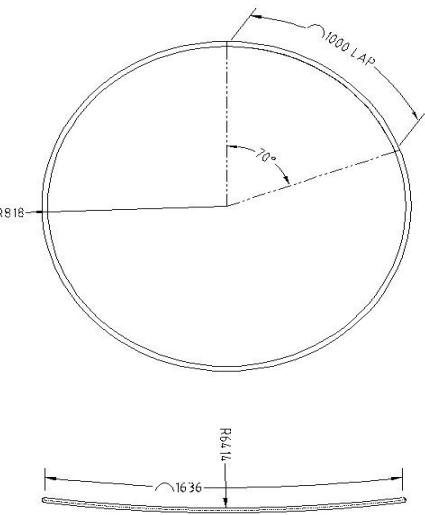
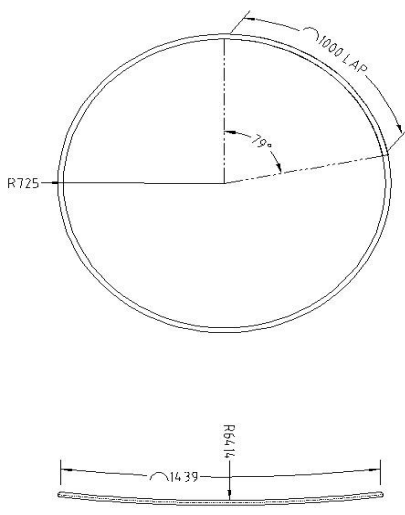


CUT LENGTH: 9170mm



B02 Y16

CUT LENGTH: 1550mm

## CAISSON TYPE 1 WALL

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><div></div><div>Y25 B03 CUT LENGTH: 6300 mm</div></div><div></div><div>Y25 B04 CUT LENGTH: 5720 mm</div></div> <div><div></div><div>Y25 B05 CUT LENGTH: 6300 mm</div></div> <div></div> <div>Y25 B06 CUT LENGTH: 5720 mm</div>																																																			
<div><div><div><div><div>Engineers</div><div></div><div>ORIGINATOR: ZAA</div><div>Date: 2019.07.26</div><div>Compiled: DM</div><div>Checked: MS</div><div>Approved: J ZIETSMAN Pr Eng</div><div>Signed:</div></div><div><table><tr><td>MILD</td><td>R8</td><td>0</td></tr><tr><td>STEEL</td><td>R10</td><td>21319,9</td></tr><tr><td></td><td>R12</td><td>0</td></tr><tr><td></td><td>R16</td><td>0</td></tr><tr><td></td><td>R20</td><td>0</td></tr><tr><td></td><td>R32</td><td>0</td></tr></table><div>TOTAL R BARS = 21320 kg</div></div><div><table><tr><td>HIGH</td><td>Y10</td><td>256 800</td></tr><tr><td>YIELD</td><td>Y12</td><td>42 104</td></tr><tr><td>STEEL</td><td>Y16</td><td>1 722</td></tr><tr><td></td><td>Y20</td><td>2 775 536</td></tr><tr><td></td><td>Y25</td><td>2 984 486</td></tr><tr><td></td><td>Y32</td><td>2 308 210</td></tr></table><div>TOTAL Y BARS = 8 368 858 kg</div></div></div><div><div></div><div>Transnet National Ports Authority</div><div>Date:</div><div>Name:</div><div>Signed:</div></div></div></div>																MILD	R8	0	STEEL	R10	21319,9		R12	0		R16	0		R20	0		R32	0	HIGH	Y10	256 800	YIELD	Y12	42 104	STEEL	Y16	1 722		Y20	2 775 536		Y25	2 984 486		Y32	2 308 210
MILD	R8	0																																																	
STEEL	R10	21319,9																																																	
	R12	0																																																	
	R16	0																																																	
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	Y20	2 775 536																																																	
	Y25	2 984 486																																																	
	Y32	2 308 210																																																	
<div><div>ZAA SCHEDULE No. 1785-CO-060-C-SCH-0005-02 T0A</div><div>DCT BERTHS 203 to 205 RECONSTRUCTION DEEPENING AND LENGTHENING</div><div>ZAA REFERENCE DRAWING 1785-CO-060-C-DWG-0005-03/04/05</div></div> <div><div>TITLE</div><div>REINFORCEMENT SCHEDULE CAISSON TYPE 1 WALL</div></div> <div><div>TNPA SCHEDULE No. 2122830-1-060-C-SC-1004-02 T0A</div><div>TNPA REFERENCE DRAWING 2122830-1-060-C-GA-1004-03/04/05</div></div>																																																			