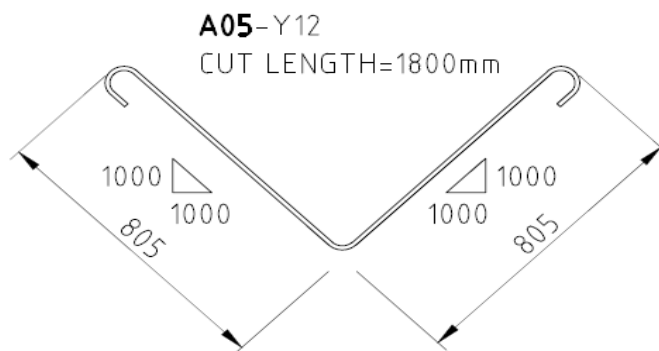


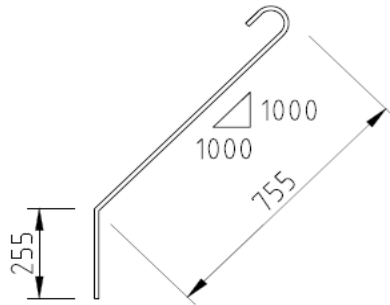
TYPE B3 SERVICE TUNNEL

Member	No of	No in	Y or	Dia	Bar	Total	Cut	Mass	Shape	Dimensions to SABS 82				
	Mbrs	Each	R	Size	Mark	No	Length	kg	Code	A	B	C	D	E or R
	5	66	Y	16	A01	330	4 300,0	2240	38	3300	305	750		
	5	268	Y	16	A02	1340	3 600,0	7614	38	1700	280	1700		
	5	87	Y	12	A03	435	1 650,0	637	49	280	280	1060	205	205
	5	134	Y	16	A04	670	3 450,0	3648	38	1700	130	1700		
	5	33	Y	12	A05	165	1 800,0	264	99	SEE SKETCH				
	5	26	Y	12	A06	130	1 600,0	185	60	305	355			
	5	26	Y	12	A07	130	1 650,0	190	60	130	555			
	5	46	Y	12	A08	230	1 150,0	235	99	SEE SKETCH				
	5	14	Y	12	A09	70	5 150,0	320	75	680	130	1955	305	1755
	5	14	Y	12	A10	70	1 400,0	87	99	SEE SKETCH				
	5	13	Y	12	A11	65	2 500,0	144	75	600	195	630	305	480
	5	13	Y	12	A12	65	1 900,0	110	60	130	680			
	5	13	Y	12	A13	65	1 250,0	72	99	SEE SKETCH				
	5	13	Y	12	A14	65	2 000,0	115	60	305	555			
	5	13	Y	12	A15	65	2 100,0	121	60	195	705			
	5	7	Y	12	A16	35	3 200,0	99	75	680	130	980	305	780
	5	7	Y	12	A17	35	4 600,0	143	75	680	130	1680	305	1480
	5	7	Y	12	A18	35	950,0	30	99	SEE SKETCH				
	5	2	Y	12	A19	10	2 300,0	20	60	130	870			
	5	2	Y	12	A20	10	2 000,0	18	60	130	720			
	5	2	Y	12	A21	10	1 500,0	13	60	195	420			
	5	134	Y	16	A22	670	4 200,0	4441	38	3300	230	750		
	5	96	Y	16	B01	480	1 800,0	1364	38	800	270	800		
	5	137	Y	16	B02	685	9 650,0	10433	20	9670				
	5	10	Y	16	B03	50	5 650,0	446	20	5680				
	5	10	Y	16	B04	50	1 800,0	142	20	1815				
	5	6	Y	16	B05	30	7 600,0	360	20	7600				
	5	6	Y	16	B06	30	1 750,0	83	55	200	270	950	270	200
	5	4	Y	16	B07	20	3 550,0	112	55	200	270	2745	270	200
	5	8	Y	16	B08	40	3 100,0	196	38	200	270	2665		
	5	8	Y	16	B09	40	4 650,0	294	20	4650				
	5	2	Y	12	B10	10	2 700,0	24	55	200	195	2020	195	200
	5	4	Y	12	B11	20	1 700,0	30	55	200	130	1120	130	200
	5	4	Y	12	B12	20	4 650,0	83	55	200	130	4070	130	200
	5	30	Y	12	B13	150	1 450,0	193	38	680	105	680		
	5	8	Y	12	B14	40	1 500,0	53	38	680	170	680		
	5	46	Y	16	B15	230	1 750,0	635	38	800	195	800		
	5	56	Y	12	B16	280	1 500,0	373	38	650	245	650		
	5	28	Y	12	B17	140	9 650,0	1199	20	9670				
	5	28	Y	12	B18	140	1 050,0	131	38	500	95	500		
	5	51	R	8	C01	255	300,0	30	85	75	130	48	50	
	5	102	R	10	C02	510	450,0	142	85	100	280	60	60	
	5	24	Y	16	D01	120	1 250,0	237	20	1280				

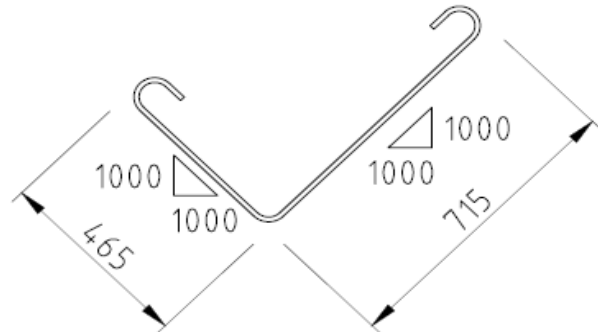


A08-Y16

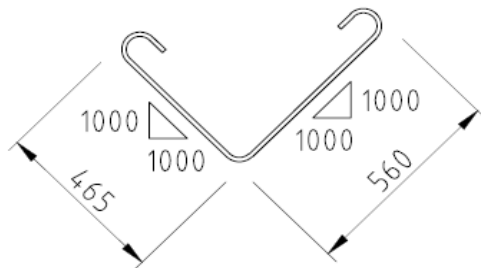
CUT LENGTH=1150mm

**A10-Y16**

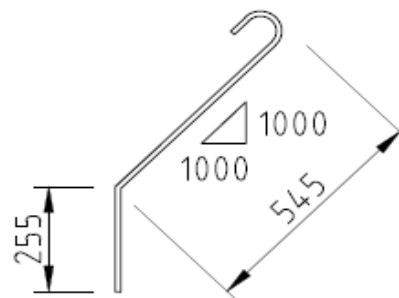
CUT LENGTH=1400mm



**A13-Y16**

CUT LENGTH=1250mm

**A18-Y16**

CUT LENGTH=950mm



Engineers  ORIGINATOR: ZAA Date: 2019.07.26 Compiled: DC Checked: MC Approved: J ZIETSMAN Pr Eng Signed:	<table border="1"> <thead> <tr> <th>MILD</th><th>R8</th><th>30,2</th></tr> </thead> <tbody> <tr> <td>STEEL</td><td>R10</td><td>141,5</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> </tbody> </table> TOTAL R BARS = 172 kg <table border="1"> <thead> <tr> <th>HIGH</th><th>Y10</th><th>0</th></tr> </thead> <tbody> <tr> <td>YIELD</td><td>Y12</td><td>4 890</td></tr> <tr> <td>STEEL</td><td>Y16</td><td>32 245</td></tr> <tr> <td></td><td>Y20</td><td>0</td></tr> <tr> <td></td><td>Y25</td><td>0</td></tr> <tr> <td></td><td>Y32</td><td>0</td></tr> </tbody> </table> TOTAL Y BARS = 37 134 kg	MILD	R8	30,2	STEEL	R10	141,5		R12	0		R16	0		R20	0		R32	0	HIGH	Y10	0	YIELD	Y12	4 890	STEEL	Y16	32 245		Y20	0		Y25	0		Y32	0	 Transnet National Ports Authority Date: Name: Signed:
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ZAA SCHEDULE No. 1785-CO-090-C-SCH-0016-03 T0A	DCT BERTHS 203 to 205 RECONSTRUCTION DEEPENING AND LENGTHENING	TNPA SCHEDULE No. 2122830-1-090-C-SC-1015-03 T0A																																				
ZAA REFERENCE DRAWING 1785-CO-090-C-DWG-0016-03	TITLE REINFORCEMENT SCHEDULE TYPE B3 SERVICE TUNNEL	TNPA REFERENCE DRAWING 2122830-1-090-C-GA-1015-03																																				