



DESCRIPTION	QTY	DIA.	SCH/THK	MATERIAL SPEC
TANK SHELL:				
2000 x 6000	1		6 PL	AS3678: HW 250
2000 x 5228	1		6 PL	AS3678: HW 250
2000 x 6000	2		5 PL	AS3678: HW 250
2000 x 5228	2		5 PL	AS3678: HW 250
80x80x6 EQUAL ANGLE	11291		-	AS3679-250
TANK ROOF:				
2000 x 6000	2		5 PL	AS3678: HW 250
HOLDING DOWN BRACKETS:				
TOP PLATE - 320 x 134	8		20 PL	AS3678: HW 250
GUSSET - 200 X 134	16		16 PL	AS3678: HW 250
DOUBLER - 475 x 550	8		16 PL	AS3678: HW 250
SHELL MANHOLE				
COVER - 788 O/D	1		20 PL	AS3678: HW 250
FLANGE 788 O/D	1		25 PL	AS3678: HW 250
GASKET 788 O/D x 638 I/D	1		3mm thk	CAF
SHELL- 146 x 1948	1		10 PL	AS3678: HW 250
REPAD - 965 O/D	1		8 PL	AS3678: HW 250
HANDLE	2	16	-	AS3678-250
BOLTS & NUTS - 65mm Lg	36	M20	-	A193 Gr B7 / A194 H2
ROOF MANHOLE				
COVER - 660 O/D	1		6 PL	AS3678: HW 250
FLANGE 660 O/D	1		6 PL	AS3678: HW 250
GASKET 660 O/D x 520 I/D	1		3mm thk	CAF
SHELL- 230 x 1615	1		6 PL	AS3678: HW 250
REPAD - 672 O/D	1		6 PL	AS3678: HW 250
HANDLE	2	16	-	AS3678-250
BOLTS & NUTS - 40mm Lg	16	M16	-	A193 Gr B7 / A194 H2
N1:				
NOZZLE SHELL	159	50NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	50NB		A105
N2:				
NOZZLE SHELL	154	40NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	40NB		A105
N3:				
NOZZLE SHELL	242	80NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	80NB		A105
N4A:				
NOZZLE SHELL	153	50NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	50NB		A105
NOZZLE BLIND - 150# RF	1	50NB		A105
STUDBOLTS & NUTS - 80mm Lg	4	5/8"		A193 Gr B7 / A194 H2

DESCRIPTION	QTY	DIA.	SCH/THK	MATERIAL SPEC
N4B:				
NOZZLE SHELL	241	50NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	50NB		A105
NOZZLE BLIND - 150# RF	1	50NB		A105
STUDBOLTS & NUTS - 80mm Lg	4	5/8"		A193 Gr B7 / A194 H2
N5:				
NOZZLE SHELL	300	100NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 230 O/D	1		16 PL	AS3678: HW 250
NOZZLE REPAD - 279 O/D	1		6 PL	AS3678: HW 250
GASKET - 230 O/D x 115 I/D	1		3mm thk	CAF
STUDBOLTS & NUTS - 55mm Lg	8	M18		A193 Gr B7 / A194 H2
DIP HATCH	1	100NB		-
DIP PLATE - 460 x 460	1		6 PL	AS3678: HW 250
N6:				
NOZZLE SHELL	189	200NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	200NB		A105
N7:				
NOZZLE SHELL	327	40NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	3	40NB		A105
GASKET - 150#	1	40NB	3mm thk	CAF
STUDBOLTS & NUTS - 70mm Lg	4	1/2"		A193 Gr B8 / A194 H2
N8:				
NOZZLE SHELL	242	80NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	80NB		A105
N9:				
NOZZLE SHELL	233	50NB	SCH 80	A106 Gr.B
NOZZLE FLANGE - 150# RFSO - SCH 80 BORE	1	50NB		A105
MISC:				
SUMP - PIPE CAP	1	500NB	STD WT	A234 WPB
SUMP REPAD - 664 O/D	1		10 PL	AS3678: HW 250
LIFTING LUGS - 125 x 110	2		32 PL	AS3678: HW 250
LIFTING LUG GUSSET - 70 x 70	4		6 PL	AS3678: HW 250
CLEAT - 80x80x6 EA 80mm Lg	2			AS3679-250
EARTH BOSS	2			REF DETAIL
NAMEPLATE	1			BRONZE
NAMEPLATE BRACKET - 390 x 180	1		6 PL	AS3678: HW 250
DRAIN PIPE:				
PIPE	1850	40NB	SCH 80	A106 Gr.B
90° LR ELBOW	1	40NB	SCH 80	A234 WPB
PIPE SUPPORT - 50x50x5 EA	500			AS3679-250
PIPE SUPPORT PLATE - 75 x 75	2		6 PL	AS3678: HW 250

D	AS-BUILT - FP7110	PGS	MEG	-	GS	22/06/98	
Issue	Description	Drawn	Checked	Design	Approved	Date	
NEW ZEALAND REFINING CO. LTD AGO DOSING STORAGE TANK - T151 MATERIAL SCHEDULE		NZRC Drawing Number T3017018					
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 INDEPENDENT TECHNOLOGY Process & Industrial Engineers 2 CORBETT ROAD - BELL BLOCK - BOX 128 - WAITARA - NEW PLYMOUTH PHONE (06) 755 1223 - FAX (06) 755 1304		 ROBT STONE		Robt. Stone & Co. Mechanical Engineers & Contractors PO Box 40, Auckland, New Zealand Tel.:(64 9) 525 2228 Fax: 525 2278 Engineering Division		Drawing No. P663-410-011	Issue D