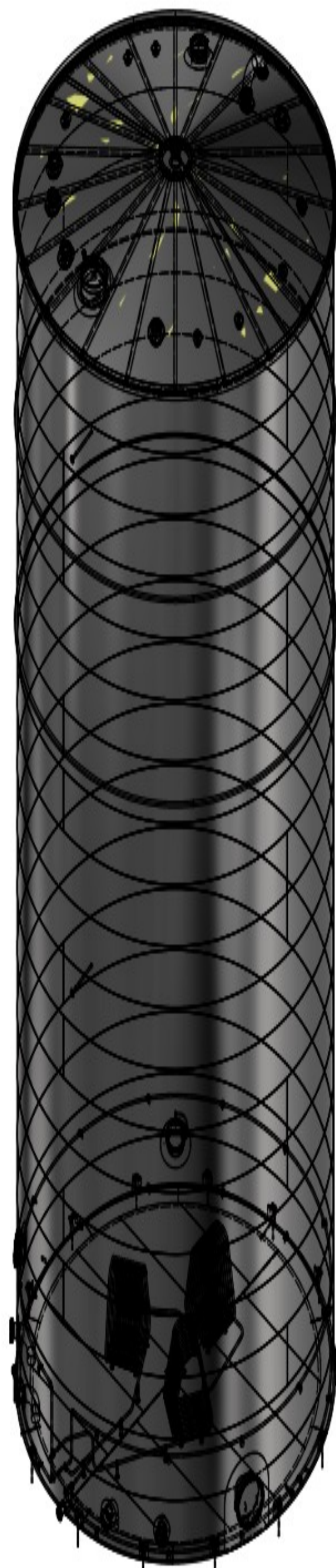
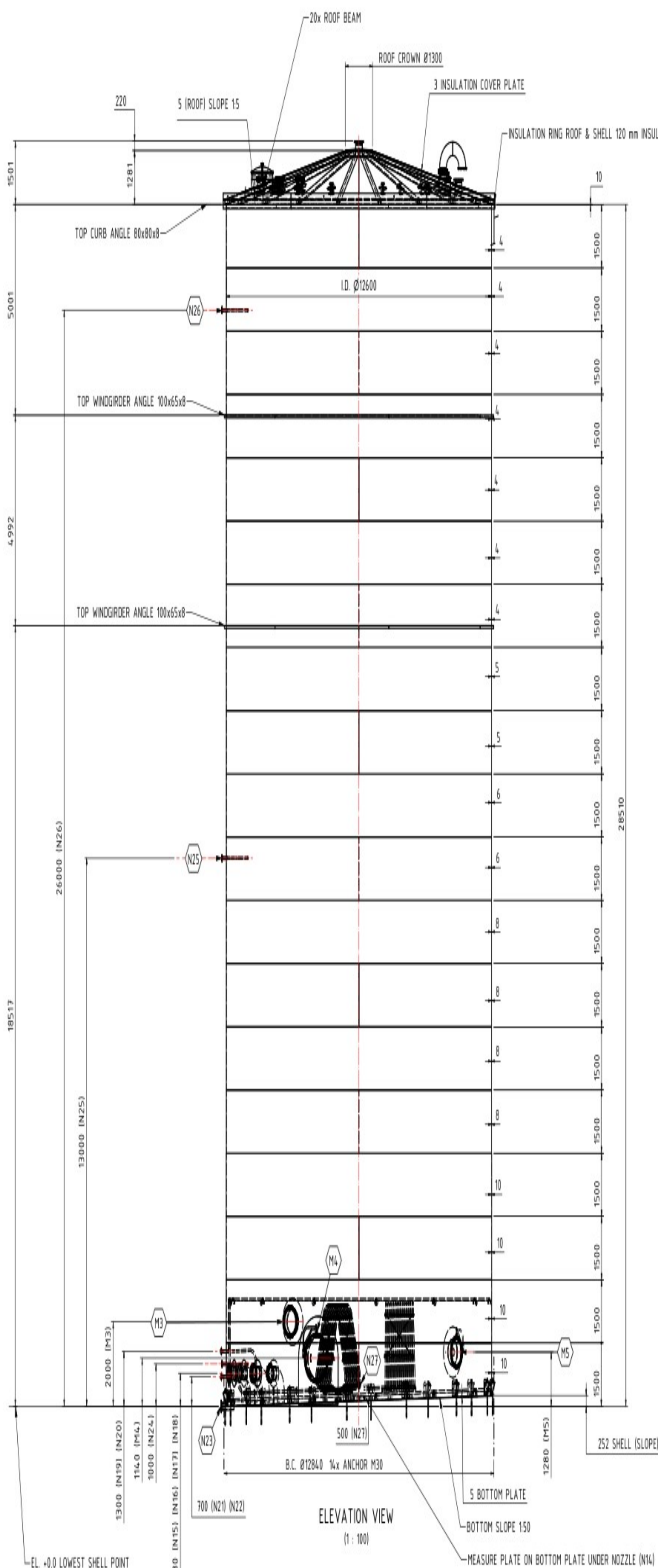
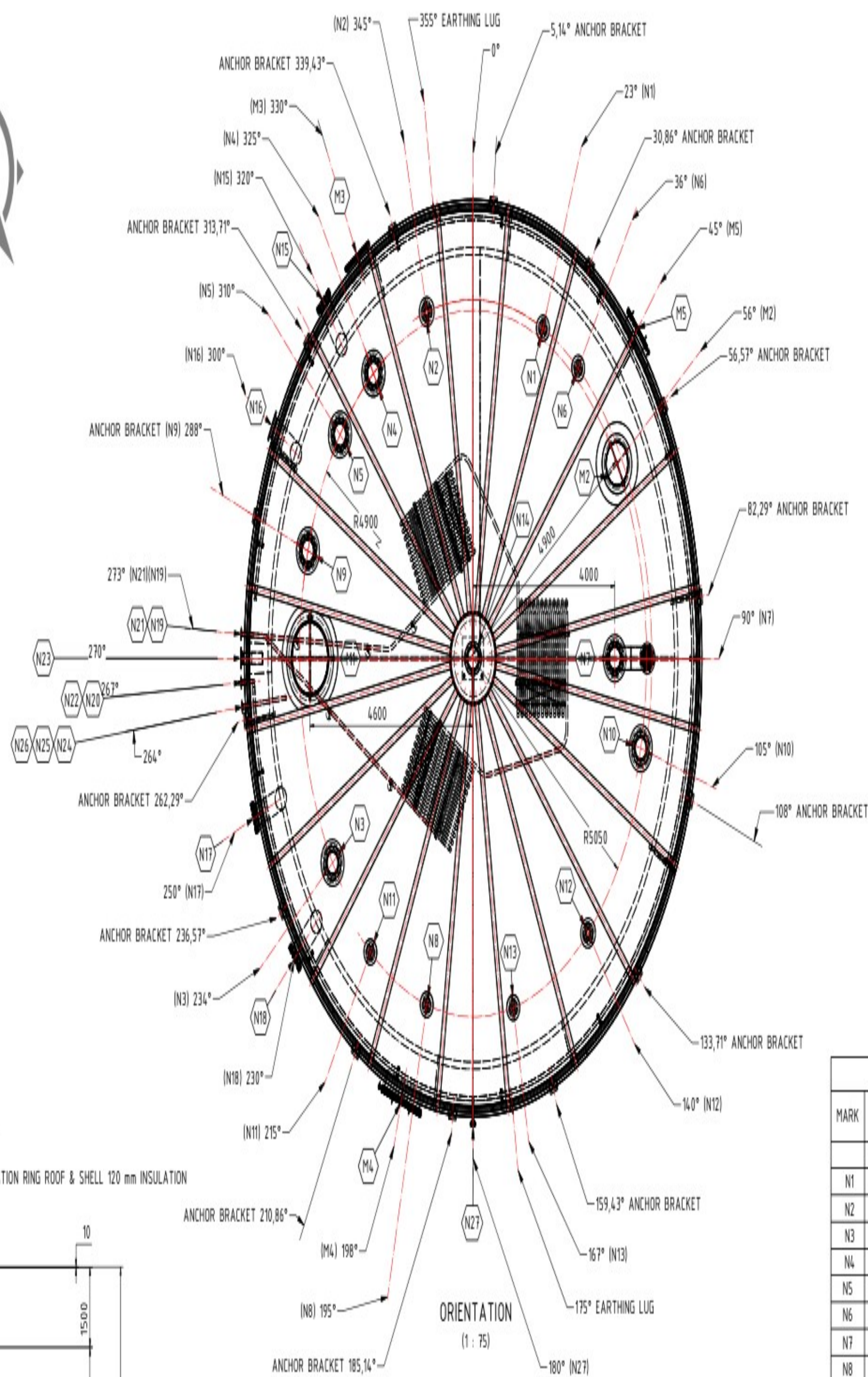


DRAWING LIST			
DRAWING NR.	PART	DRAWING NR.	PART
P24100-000-001	GENERAL ARRANGEMENT	P24100-130-001	MANHOLE SHELL (M5)
P24100-010-001	BOTTOM	P24100-130-002	MANHOLE SHELL (M4)
P24100-110-001	SHELL	P24100-130-003	SHELL NOZZLE (M3)
P24100-130-001	ROOF SUPPORT	P24100-130-004	SHELL NOZZLE (N15) (N16) (N17)
P24100-310-002	FLAT PATTERN ROOF PLATES	P24100-130-005	SHELL NOZZLE (N16)
P24100-310-003	ROOF INSULATION	P24100-130-006	SHELL NOZZLE (N19) (N21)
P24100-310-004	FLAT PATTERN INSULATION COVER	P24100-130-007	SHELL NOZZLE (N20) (N22)
P24100-320-001	MANHOLE ROOF (M1)	P24100-130-008	SHELL NOZZLE (N23)
P24100-320-002	MANHOLE ROOF (M2)	P24100-130-009	SHELL NOZZLE (N27)
P24100-320-003	ROOF NOZZLE (N1 (N6) (N8) (N11) (N13))	P24100-130-010	SHELL NOZZLE (N24) (N25) (N26)
P24100-320-004	ROOF NOZZLE (N2) (N12)	P24100-140-001	ANCHOR BRACKETS
P24100-320-005	ROOF NOZZLE (N3) (N10)	P24100-140-002	LIFTING LUG
P24100-320-006	ROOF NOZZLE (N4) (N5) (N9)	P24100-140-003	NAME PLATE
P24100-320-007	ROOF NOZZLE (N7)	P24100-140-004	INSULATION RING
P24100-320-008	ROOF NOZZLE (N14)	P24100-140-005	EARTHING LUG
P24100-020-001	MEASURE PLATE	P24100-140-006	PIPE SUPPORT
		P24100-140-007	DRAIN PIPE
		P24100-210-001	HEATING COIL SPIRAL ASSEMBLY
		P24100-210-002	HEATING COIL ASSEMBLY

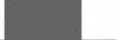
ISOMETRIC
(1 : 125)

DESIGN DATA		
	TANK	HEATING COIL 1-2
DESIGN CODE	EN 14015:2004	NEN-EN 13445: 2021
TANK TYPE	LOW PRESSURE TANK	PRESSURE VESSEL
BOTTOM TYPE	SLOPE 150 (2%)	
PRODUCT DENSITY	1250 (Product) 1000 kg/m ³ (Test)	1000 kg/m ³
TANK DIMENSION	ID Ø12.600 x 28500 mm	PIPE Ø60.3 x 2.77 COIL-1 78 m COIL-2 238 m
MEDIUM	GLYCERINE	WATER
CAPACITY	3538 m ³ (Gross) 3431 m ³ (Netto)	COIL-1 78 m COIL-2238 m
OPERATING TEMPERATURE	80 °C	
DESIGN TEMPERATURE	100 / -10 °C	100 °C
DESIGN PRESSURE MAX. / MIN.	25 mbarg / -5 mbarg	8 barg
HYDROSTATIC TEST PRESSURE	FULL OF WATER + 27.5 mbarg	
CORR. ALLOW. BOTTOM / SHELL / ROOF	0 / 0 / 0 mm	0
INSULATION	120 (ROOF)	
EMPTY WEIGHT BOTTOM / SHELL / ROOF	83000 kg	
OPERATION WEIGHT (PRODUCT)	4377750 kg (Max. Height = 27645 mm (97%))	
TOTAL WEIGHT FULL OF WATER (TEST)	3621000 kg	
WIND VELOCITY	45 m/sec	
PUMPING RATE	IN & QUT 400 m ³ /hr	
LIVE LOAD ROOF	500 N/m ²	
RADIOGRAPHY	ACC. EN 14015:2004	NEN-EN 13445: 2021
INSPECTION	MERCON QUALITY DEPARTMENT	
TESTING	ACC. Nobo "DESIGN APPRAISAL DOCUMENT" & MERCON "TEST AND INSPECTION PLAN"	
Nobo REGISTER NR.	HOLD	
FACTORY NR.	P24100	
ITEM NR.	T-8003	

MATERIALS		
LDX 2101 (14462)	NEW EN 10028-7	BOTTOM-SHELL-ROOF-REINFRINGS-PIPE FROM PLATE
1.4404	NEW EN 10217-7	W.N. FLANGES-HEATING COILS-NOZZLE PIPE-FITTING
1.4301	NEW EN 10056-2	WINDGRIDER-INSULATION RING-ROOF INSULATION COVER
1.4306	NEW EN 10056-2	ANCHOR BRAKETS
A312 Gr. TP 316-L	ASTM A312	ASTM PIPE
A403 Gr316-L	ASTM A403	ANSI FITTING
KLINGERSIL	C4430	GASKETS
A4-70	EN	NOZZLE AND ANCHOR BOLTS / NUTS

NOZZLE LIST										
MARK	NR.	Description	DN	PN	FLANGE	Face	Pipe Sched	ORIENTATION	PROJECTION	REMARKS
					ROOF NOZZLES					
N1	1	LEVEL SWITCH	DN50	PN16	EN1092-1 type 11-B1	RF	STD	23°	240	
N2	1	RADAR	DN100	PN16	EN1092-1 type 11-B1	RF	STD	34.5°	240	
N3	1	PRODUCT INLET	DN300	PN16	EN1092-1 type 11-B1	RF	STD	234°		
N4	1	SPARE	DN300	PN16	EN1092-1 type 11-B1	RF	STD	325°		+BLIND FLANGE
N5	1	SPARE	DN300	PN16	EN1092-1 type 11-B1	RF	STD	310°		+BLIND FLANGE
N6	1	PRESSURE SENSOR	DN50	PN16	EN1092-1 type 11-B1	RF	STD	36°	240	
N7	1	VENT	DN300	PN16	EN1092-1 type 11-B1	RF	STD	90°		
N8	1	PRESS. SENSOR	DN50	PN16	EN1092-1 type 11-B1	RF	STD	195°	240	
N9	1	RESERVE	DN300	PN16	EN1092-1 type 11-B1	RF	STD	288°		+BLIND FLANGE
N10	1	PSV	DN300	PN16	EN1092-1 type 11-B1	RF	STD	105°		
N11	1	NITROGEN	DN50	PN16	EN1092-1 type 11-B1	RF	STD	215°	240	
N12	1	RADAR	DN100	PN16	EN1092-1 type 11-B1	RF	STD	140°	240	
N13	1	LEVEL SWITCH	DN50	PN16	EN1092-1 type 11-B1	RF	STD	167°	240	
N14	1	LEVEL MEASUREMENT	DN300	PN16		RF	STD	CENTER		+MEASURE PLATE
M1	1	MANHOLE ROOF	DN1000		PLATE FLANGE	FF		270°		+SAFETY CROSS
M2	1	MANHOLE ROOF	DN600		MACHINED			56°		+SAFETY CROSS
					SHELL NOZZLS					
N15	1	SPARE	DN300	PN16	EN1092-1 type 11-B1	RF	XS	320°	6560 -CL	+BL FL -ELBOW
N16	1	SUCTION PUMP	DN300	PN16	EN1092-1 type 11-B1	RF	XS	300°	6560 -CL	-ELBOW
N17	1	RESERVE	DN300	PN16	EN1092-1 type 11-B1	RF	XS	250°	6560 -CL	+BLIND FLANGE
N18	1	RESERVE	DN300	PN16	EN1092-1 type 11-B1	RF	XS	230°	6560 -CL	+BLIND FLANGE
N19	1	HEATING IN	DN50	PN16	EN1092-1 type 11-B1	RF	XS	273°	6560 -CL	+WOKKEL
N20	1	HEATING IN	DN50	PN16	EN1092-1 type 11-B1	RF	XS	267°	6560 -CL	+SHELL COIL
N21	1	HEATING OUT	DN50	PN16	EN1092-1 type 11-B1	RF	XS	273°	6560 -CL	+WOKKEL
N22	1	HEATING OUT	DN50	PN16	EN1092-1 type 11-B1	RF	XS	267°	6560 -CL	+SHELL COIL
N23	1	SUMP	DN150	PN16	EN1092-1 type 11-B1	RF	XS	270°	6560 -CL	
N24	1	THERMOWELL 1 m	DN50	PN16	EN1092-1 type 11-B1	RF	XS	264°	6560 -CL	+INSERT PIPE
N25	1	THERMOWELL 13 m	DN50	PN16	EN1092-1 type 11-B1	RF	XS	264°	6560 -CL	+INSERT PIPE
N26	1	THERMOWELL 26 m	DN50	PN16	EN1092-1 type 11-B1	RF	XS	264°	6560 -CL	+INSERT PIPE
N27	1	SAMPLING	DN50	PN16	EN1092-1 type 11-B1	RF	XS	180°	6560 -CL	+INSERT PIPE
M3	1	MIXER	DN600	28,5 m	EN1419S	FF	XS	330°	6560 -CL	
M4	1	MANHOLE SHELL	DN1000	28,5 m	PLATE FLANGE	FF	XS	198°	6560 -CL	+BLIND FL -DAVIT
M5	1	MANHOLE SHELL	DN600	28,5 m	EN1419S	FF	XS	45°	6560 -CL	+BLIND FL -DAVIT

SURFACE TREATMENT	
PART	TREATMENT
TANK INSIDE	PICKLING AND PASSIVATING
TANK OUTSIDE	WELDS BRUSHED
	PICKLING AND PASSIVATING
UNDERSIDE BOTTOM PLATE	NO TREATMENT
REMARKS	
BOLTHOLES SHELL NOZZLE FLANGES STRADLE WITH NATURAL CENTERLINES TANK.	
BOLTHOLES ROOF NOZZLE FLANGES' STRADLE WITH NOZZLE ORIENTATION LINE.	

0	First Issue / For approval				
Rev	Date	Comment	Drawn	Checked	Approved
		TITLE STORAGE TANK T-8003			
DATE 7-10-2024 DRAWN BY  CHECKED BY 		DESCRIPTION General Arrangement			
 MERCOR B.V. www.mercor.com		SCALE 1 : 100	FORMAT A1	PROJECT No P24100	DRAWING No 000-001
				REV 0	SHEET 1/1
					QTY 1x