Mechanical data

		Vessel:	-	See note:1	
Design code		ASME sect.VIII.-1 98 Edition – 99 Addeda (U-STAMP)			
Inspection		Lloyds /FIB			
Design pressure		-14.5/44 Psi (-1/3.0 Barg)		-14.5/75 Psi(-1/5.1Barg)	barg
Design temperature		300 °F (148.9°C)	-	300°F(148.9°C)	°C
Operating pressure		-14.5 Psi (-1 Barg)	-	-14.5/60Psi(-1/4.1Barg)	barg
Operating temperature		300°F (148.9°C)	-	300°F (148.9°C)	°C
Test pressure		57.2 Psi (3.9 Barg)		97.5Psi(6.7Barg)	barg
Volume		6	-	-	m³
Corrosion allowance		0	-	0	mm
Joint efficiency		-	-	-	
X-ray		See note:2	-	See note:2	%
Danger class		See note:3		-	
Weight empty		See note:4	-	-	Kg.
Weight full of water		17300			Kg.
Welding method		See WPS			
Surface treatment	SS.	All productcontacting parts Ra<1.0 mu			
		All outside SS parts,bead blast finish			
	CS	-			
		-			
Tolerances according		FIB Tol.001			
Flange gasket contact face finish		Ra=6.3-12.5mu			

Bolt holes in the flanges to straddle centerlines unless otherwise shown on dwg

PROCESS CONNECTION

MARK	NUMB. REQ.	SERVICE	NOM. BORE	PIPE	FLANGE CONNECTION
1N	1	Hinged manway vessel	DN600	620x10	-
2N	1	Vac.filter flange	20"	508x10	WNRF 150# ASME B16.5
3N	1	-	3"	88.9x5.49	WNRF 150# ASME B16.5
4N	1	-	3"	88.9x5.49	WNRF 150# ASME B16.5
5N	1	-	3"	88.9x5.49	WNRF 150# ASME B16.5
6N	1	Filling flange	10"	273x10	WNRF 150# ASME B16.5
7N	1	Light glass	DN150	PAD	With EX-light
8N	1	Sight glass	DN150	PAD	
9N	1	Spare	4"	114.3x6.02	WNRF 150# ASME B16.5 with blind flange
10N	1	Vessel jacket in	2"	60.3x3.91	WNRF 150# ASME B16.5
11N	1	Vessel jacket out	2"	60.3x3.91	WNRF 150# ASME B16.5
12N	1	Vessel jacket in	2"	60.3x3.91	WNRF 150# ASME B16.5
13N	1	Vessel jacket out	2"	60.3x3.91	WNRF 150# ASME B16.5
14N	1	Vessel jacket in	2"	60.3x3.91	WNRF 150# ASME B16.5
15N	1	Vessel jacket out	2"	60.3x3.91	WNRF 150# ASME B16.5
16N	1	Sample valve	2"	PAD	Special
17N	1	Thermowell connection	1.1/2"	ø70	SORF 150# ASME B16.5
18N	1	Outlet	12"	PAD	ASME B16.5 150#
23N	1	Domed cover jacket in	2"	60.3x3.91	WNRF 150# ASME B16.5
24N	1	Domed cover jacket out	2"	60.3x3.91	WNRF 150# ASME B16.5
25N	2	Nitrogen-to-filterclean.dev.	1/2"-NPT	-	Socket
26N	1	Vacuum connection	6"	168.3x7.11	ASME B16.5 150#
27N	1	Filter jacket out	2"	60.3x3.91	WNRF 150# ASME B16.5
28N	1	Filter jacket in	2"	60.3x3.91	WNRF 150# ASME B16.5
29N	1	Hinged manway filter	DN500	508x10	-
30N	3	Nitrogen blow back p.valve	1"	33.4x3.38	WNRF 150# ASME B16.5

Reference document list

Document no.	Document name	Client document no.
700358/01-200	Strength calculation	-
700358/01-250	WPS&PQR	-
700358/01-002	Nozzle details.	-
700358/01-003	Filterhouse	-
700358/01-004	Detail Bracket,Lifting lugs,Domed cover	-
700358/01-005	Detail Agitator flange,Nozzle:18N,7N,17N	-
700358/01-006	Nameplate	-

GENERAL NOTES

1	This data applies for: Jacket on cone
	: Dohme on the dished head
	: Jacket on filterhouse
2	100% Wetted parts & 10% Non Wetted parts.
3	Non lethal service
4	Weight of machine :ca.6500 kg;weight of screw ca.500 kg ,Operation weight:10820 kg
5	Max.out of roundness acc.to UG-80
6	Exemted from impect testing as per UHA-51(d)
7	-
8	Insulation mineral: Perlite (By FIB)
9	Clearance Mixer to cone: 8-:-12mm

⊛ -Important dimension-

Ⓑ ⊛⊛ -Throat thickness of fillet welds: a=0.7xt or min.a=4 for butt-welded Joints.

TOPVIEW IS RULING FOR NOZZLE ORIENTATION

DRIVE FLANGE MUST BE ⌾ 1.0 TO CENTRELINE VESSEL.

DETAIL LONG & CIRC.WELD CONE LW,CW

DETAIL COIL

DETAIL HALFPIPE/HALFPIPE/ELBOW NOZZLE : 10N,11N,12N,13N,14N,15N,23N,24N

DETAIL PIPE/FITTING/FLANGE NOZZLE : 10N,11N,12N,14N,15N,23N,24N

DETAIL:PIPE/HEAD/SHELL NOZZLE: 1N,2N,3N,4N,5N,6N,9N

DETAIL FLANGE/HEAD NOZZLE :7N,AGIT.FLANGE

DETAIL FLANGE/CONUS NOZZLE : 16N

DETAIL CONE\PAD FLANGE NOZZLE:14N

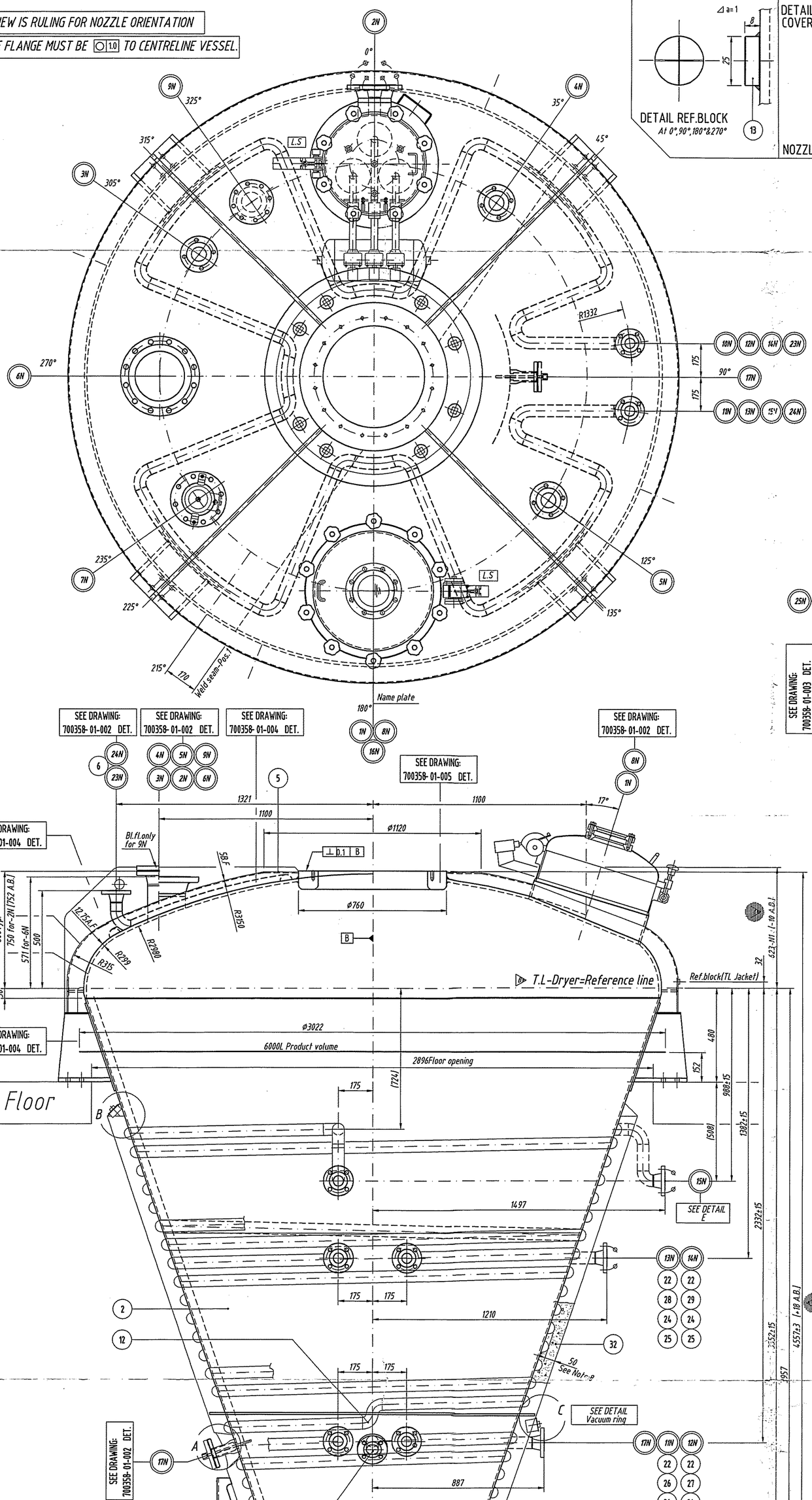
DETAIL CONE/PIPE NOZZLE:17N

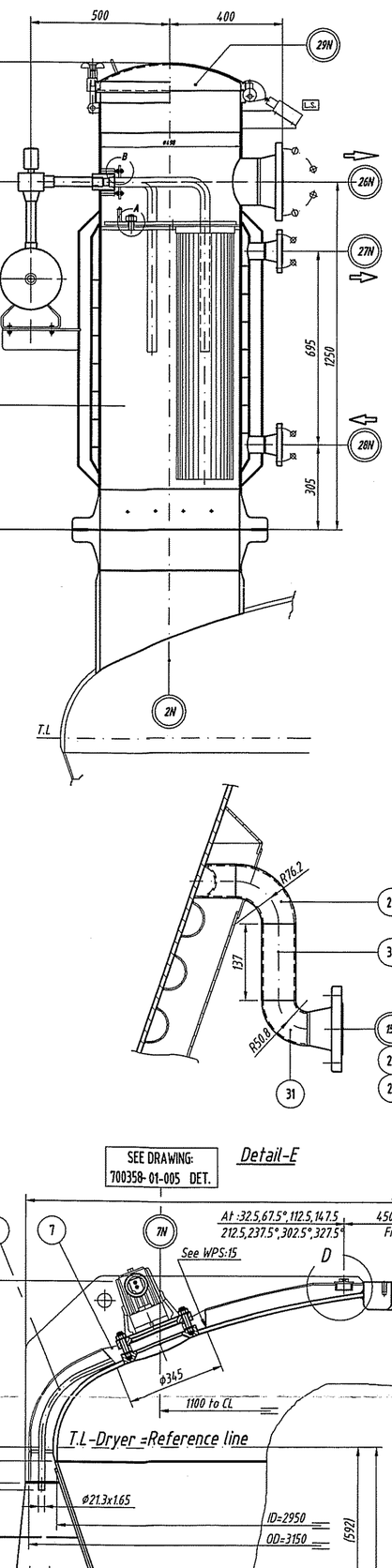
DETAIL A

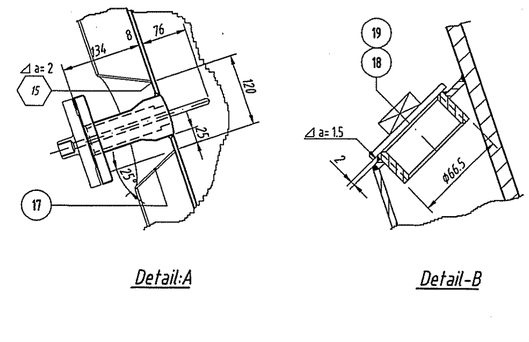
DETAIL REF.BLOCK At 0°,90°,180°&270°

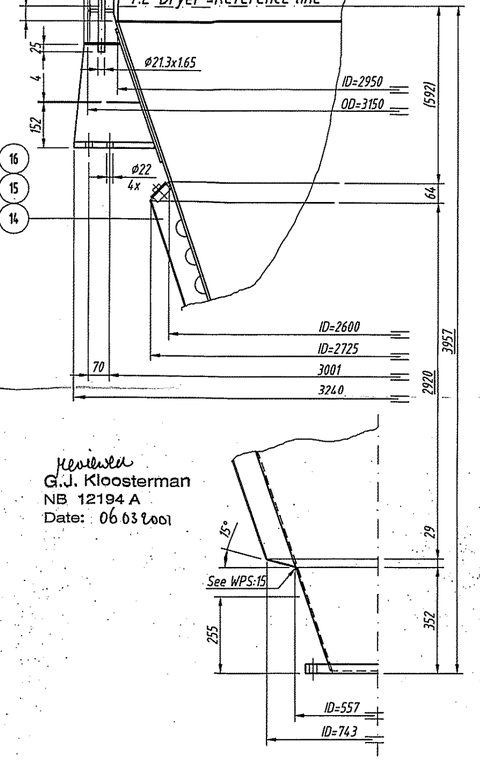
NOZZLE:10N-15N

DETAIL C -Vacuum ring & Filling cap 3x in circ.









Construction detail

Bottom view

32	1	Pellets-H3 Ca.2m3	Perlite No:2	-
31	1	Elbow D=60.33x2.77 90Gr.SR ASME B16.9	SA403WP-304L	3.1B
30	1	Pipe welded D=60.33x3.91 L=137	SA312TP304L	3.1B
29	1	Pipe welded D=60.33x2.77 L=Ca.68	SA312TP304L	3.1B
28	1	Pipe welded D=60.33x2.77 L=Ca.68	SA312TP304L	3.1B
27	1	Pipe welded D=60.33x2.77 L=Ca.80	SA312TP304L	3.1B
26	1	Pipe welded D=60.33x2.77 L=Ca.80	SA312TP304L	3.1B
25	6	Plate 3 D=130	SA240-304L	-
24	6	WNRF Flange 2" 150# ASME B16.5 Ra=6.3-12.5mu s=2.77	SA182F304L	3.1B
23	1	Pipe welded D=60.33x2.77 L=Ca.108	SA312TP304L	3.1B
22	7	Elbow D=60.33x2.77 90Gr.LR ASME B16.9	SA403-WP304L	3.1B
21	1	Plate 25 89x140.362	SA240-304L	-
20	3	Socket 2"BSP Make Avesta Type:R-201	AISI316	-
19	15	Plug 2"BSP Make Avesta Type:R-237	AISI316	-
18	12	Half Socket 2"BSP Make Avesta Type:R-203	AISI316	-
17	1	Plate 4 (Cone D=215xD=120 H=95	SA240-304L	-
16	1	Plate 5(Cone ID=743xID=557 H=25)	SA240-304L	-
15	1	Plate 4(Cone ID=2725xID=743 H=2920)	SA240 -304L	-
14	1	Plate 4 (Cone ID=2725xID=2600 H=62	SA240-304L	-
13	4	Bar D=25 L=8	SA240-304	-
12	2	Half Elbow D=60.33x2.77 90Gr. LR	A403-WP304L	3.1B
11	1	Plate 5 ±108x9880	SA240-304L	-
10	1	Flatbar 40±3 L=9874	SA240-304L	-
9	1	Flatbar ±80x10 L=9613	SA240-304L	3.1B
8	1	Pipe Welded D=21.34x1.65 L=600	SA312TP304L	-
7	1	Plate 4 (Cone D=405xD=354 H=70	SA240-304L	-
6	2	Plate 3 D=130	SA240-304L	-
5	1	Plate 5 D=1120xD=760	SA 240-304L	-
4	1	Head torispherical OD=3150 r=0.1D L=D t=5.8F h=45 ACC.DIN28011	SA 240-304L	-
3	1	Flatbar 80x10 L=5011	SA240-304L	3.1B
2	1	Plate 8 (Cone OD=2965xod=322 H=3893)	SA 240-304L	3.1B
1	1	Head torispherical ID=2950 r=0.1D L=D t=12.75A.F Htot.=635 ACC.UG-81	SA 240-304L	3.1B
REV MARK	POS NO.	NUMB REQ.	DESCRIPTION / DIMENSION	MATERIAL	CERT

AS BUILT STATUS FIB	AS BUILT STATUS CLIENT	AS BUILT STATUS INSP. AUTHORITY
0	A	B	C 06-03-2001	D	E

SCALE	1:20	DATE	REMARKS -
DRAWN	SABb.bandi	02-10-2000	-
CHECKED	J. de Haan	06-03-2001	-

PROJECT: Saturn Mixers and Dryers,SPS Group
SOFI CORP. P.O No:P00-0523

SUBJECT: Conical Dryer DF-600-VD2; Item:C7200
General Arrangement

REVISED: A 15-12-2001; B 06-03-2001

ITEM NO. -

FORM A0 | REG.NO. - | DRWG.NO. 700358 | SHEET NO. 01-001 --

fib APPARATENBOUW
EINSTEINWEG 23 8912 AP LEEUWARDEN | POSTBUS 314 8901 BC LEEUWARDEN | TEL. 058 294 59 45 FAX 058 294 57 87

Unless otherwise stated tolerances according to ISO-2768 m for machined parts

from		incl	±
0.5	–	3	0.1
3	–	6	0.1
6	–	30	0.2
30	–	120	0.3
120	–	400	0.5
400	–	1000	0.8
1000	–	2000	1.2
2000	–	4000	2

drilled holes H11

Unless otherwise stated tolerances for vessel parts

from		incl	±
30	–	120	3
120	–	315	4
315	–	1000	5
1000	–	4000	6
4000	–	8000	8

General tol.NEN-ISO1101

Roughness:NEN-3634 .. Ra in MICRON (um)