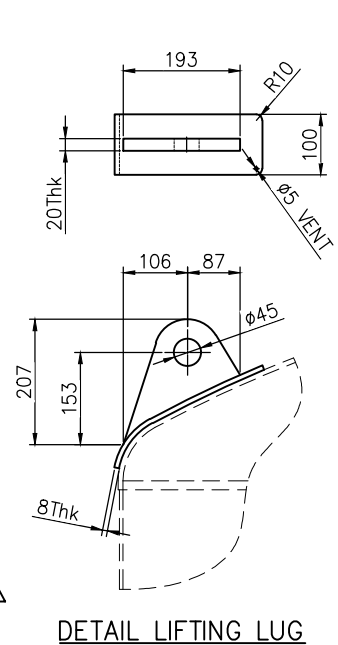
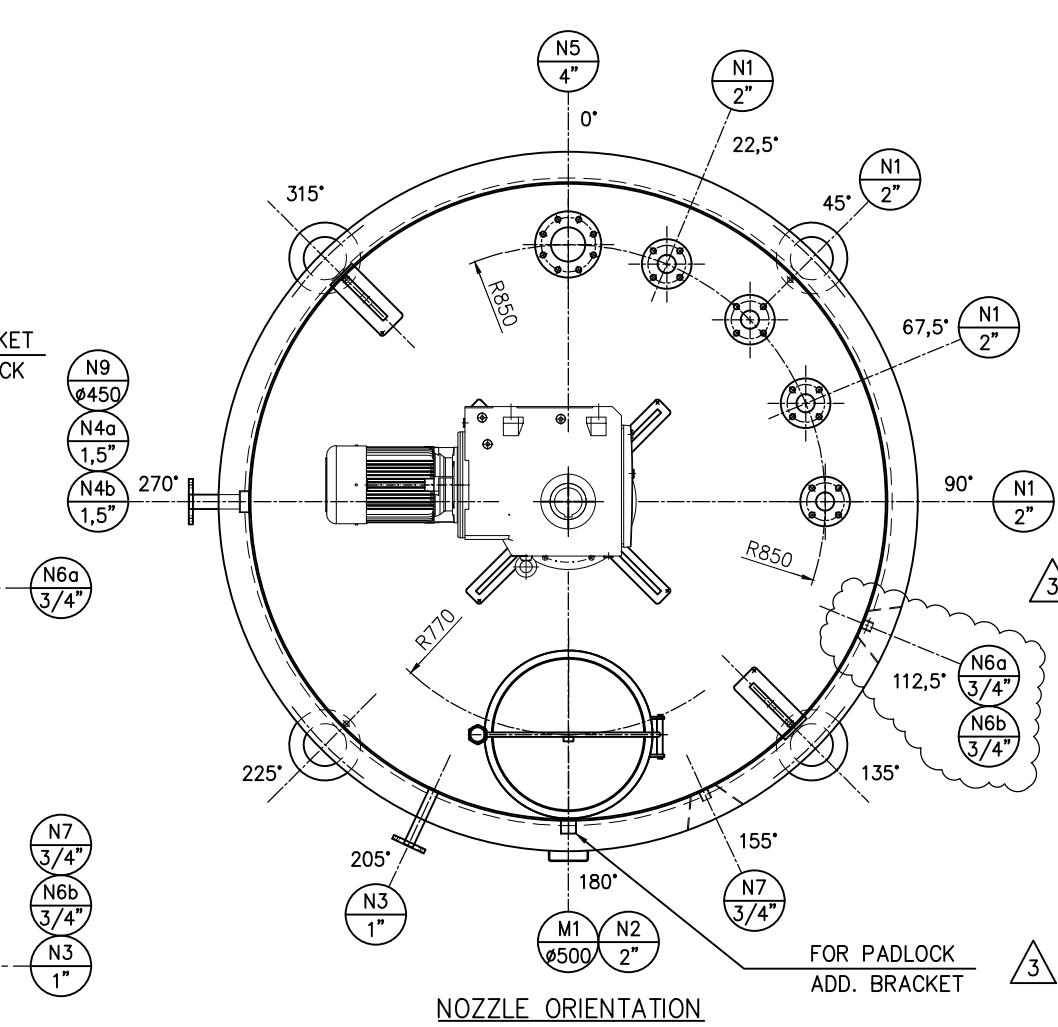
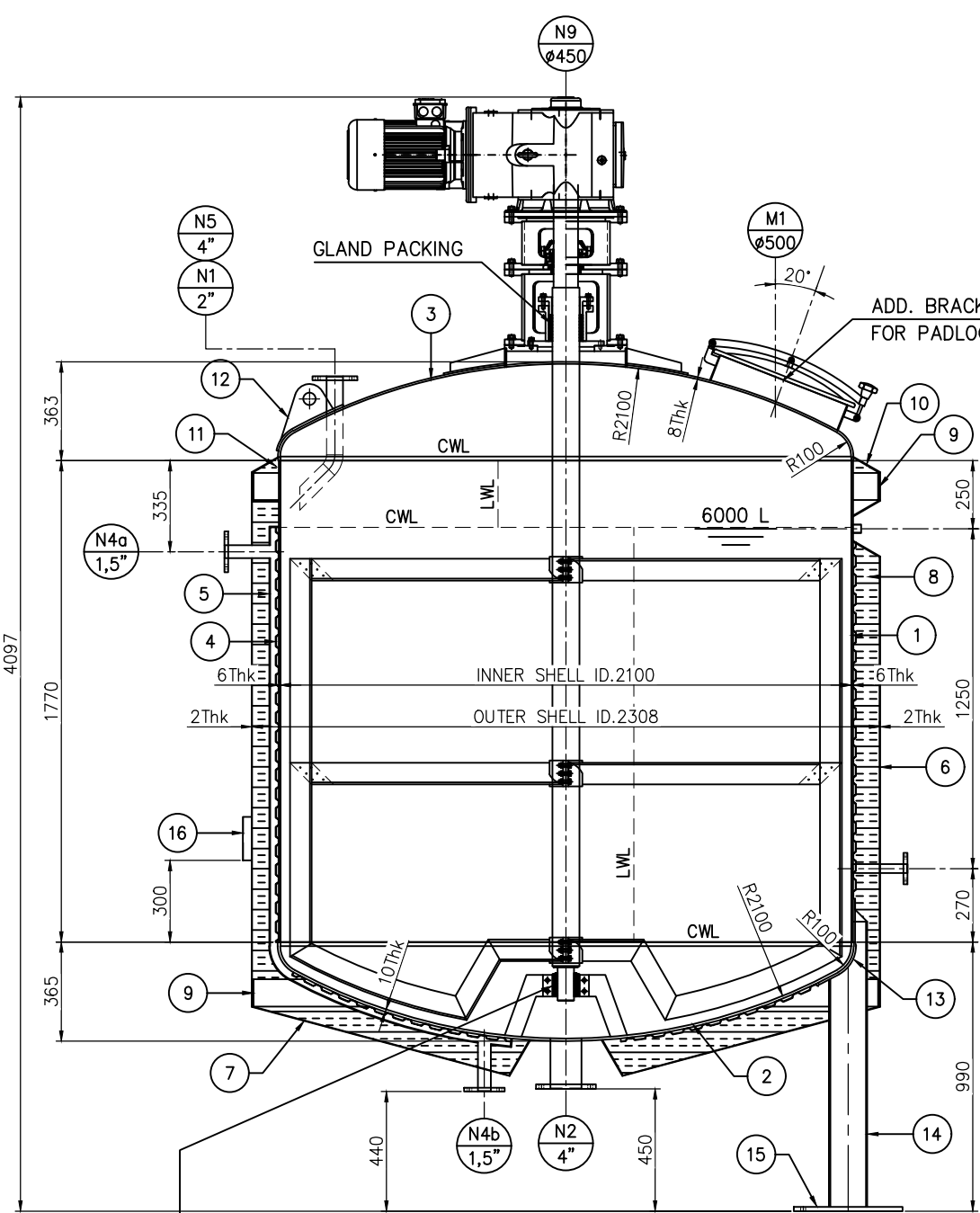




FICO

ENGINEERING

Rukan Sinpasa B/30 Summarecon Bekasi
Marga Mulya, Bekasi Utara
Kota Bekasi-Jawa Barat 17142
Telp : (021) 295 72269
Email : fico@summafico.com

Manufacturing No. : 21.03.020

Manufacturing Type : PRE-COOLING TANK

Dimension : Ø2100xH.1770xL.6000mm Cap : 6000 Ltrs.

Empty Weight : - kg

Permissible working pressure
in product chamber : ATM Barg
in jacket coil

Steam : - Barg Water : 3 Barg

Permissible working temp.
Max. Allowable Temp. : - °C
in heat / cooling chamber : - °C

Material
product chamber : SS 316L
jacket : SS 304L

Year of Manufacturing : 2025

NOZZLE SCEDULE						
NOZZ.	QTY.	DESCRIPTION	SIZE	CONN.	MATERIAL	REMARK
M1	1	MANHOLE	ø500	-	SS 316L	-
N1	4	NON FOAMING INLET	2"	FL, JIS 10K	SS 316L	-
N2	1	PRODUCT OUTLET	4"	FL, JIS 10K	SS 316L	-
N3	1	PROD. SAMPLING NOZZLE	1"	FL, JIS 10K	SS 304	-
N4a&b	2	HW/CW INLET OUTLET	1.5"	FL, JIS 10K	SS 304	-
N5	1	NON FOAMING INLET	4"	FL, JIS 10K	SS 304	-
N6a&b	2	HL/LL SENSOR	3/4"	FNPT #150	SS 304	-
N7	1	TT SENSOR	3/4"	FNPT #150	SS 304	-
N8	1	AGITATOR "NORD"	ø450	-	-	SK9072.1

GENERAL NOTE :

- ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
- FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
- NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.
- SURFACE FINISHED :
 - INNER = Ra. 0,7 µM
 - OUTER = GRIT #180

16	NAME PLATE	SS 304	PL, t= 2mm	-
15	BASE PLATE	SS 304	PL, t= 16mm	-
14	LEGS	SS 304	PIPE, 5" Sch.10	-
13	WELDING PAD LEGS	SS 304	PL, t= 8mm	-
12	LIFTING LUG	SS 304	PL, t= 20mm	-
11	WELDING PAD LIFTING LUG	SS 304	PL, t= 8mm	-
10	STIFFENER	SS 304	PL, t= 3mm	-
9	RING PLATE	SS 304	FB, 100x5	-
8	INSULATION	ROCKWOOL	80kg/m ³ x 100mm	-
7	BOTTOM OUTER SHELL	SS 304	PL, t= 2mm	-
6	OUTER SHELL	SS 304	PL, t= 2mm	-
5	HEADER DIMPLE	SS 304	PL, t= 6mm	-
4	DIMPLE JACKET	SS 304	PL, t= 3mm	-
3	TOP DISHED HEAD	SS 316L	PL, t= 8mm	-
2	BOTTOM DISHED HEAD	SS 316L	PL, t= 10mm	-
1	INNER SHELL	SS 316L	PL, t= 6mm	-
NO.	DESCRIPTION	MATERIAL	RAW MAT. SIZE	REMARK

BILL OF MATERIAL

DRAWING NAME : PRE-COOLING TANK 6.000L

CUSTOMER : OFI (BT COCOA)

PAPER SIZE

A3

SCALE

NTS

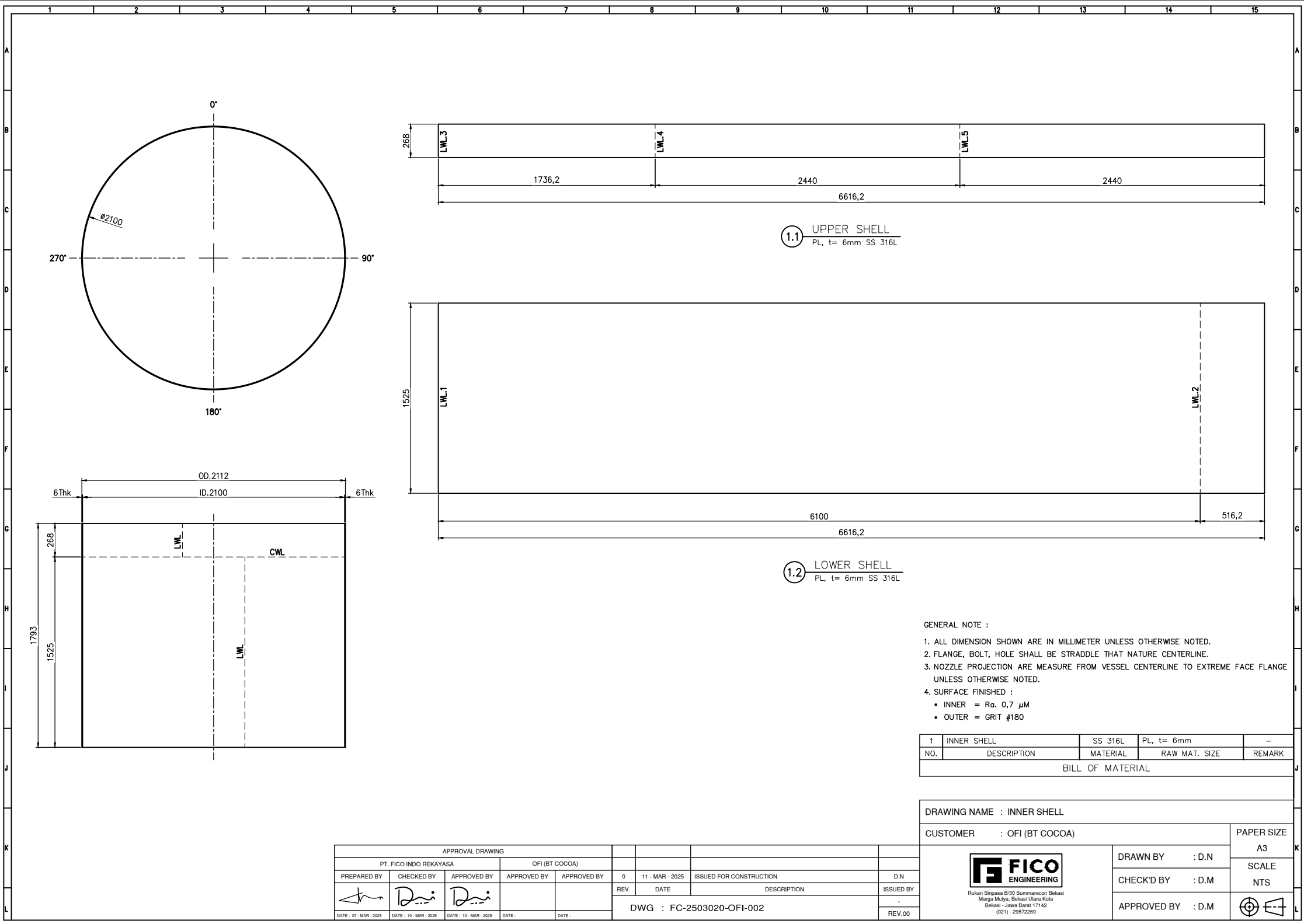
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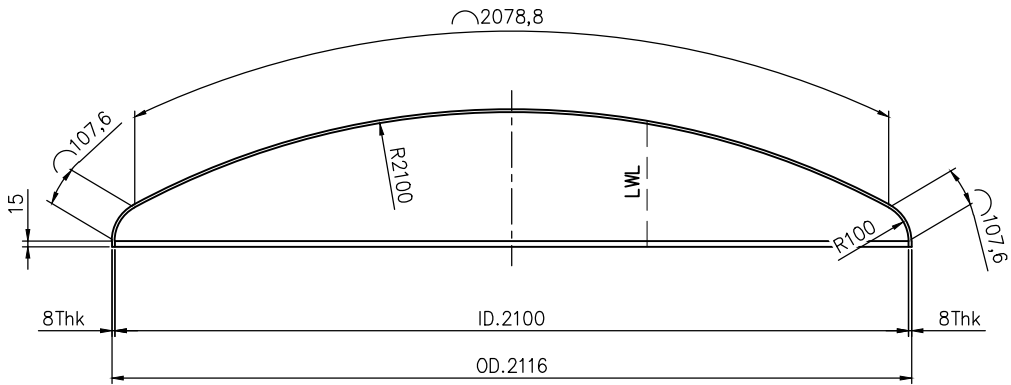
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APPROVED BY : D.M

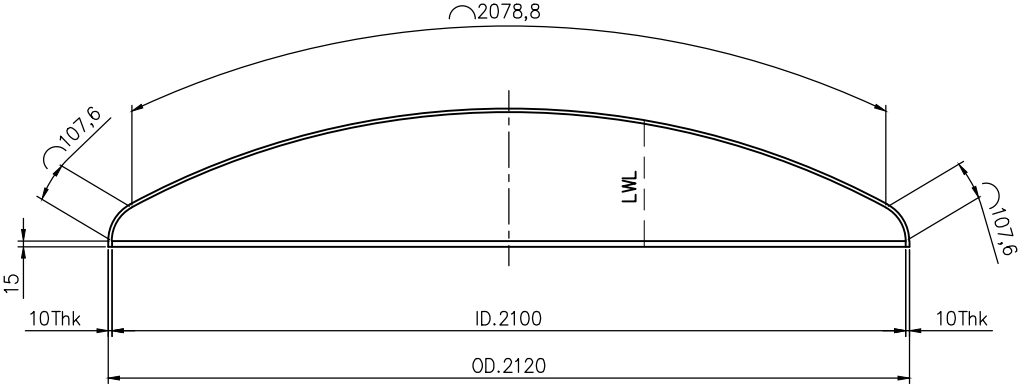
Rukan Sinpasa B/30 Summarecon Bekasi
Marga Mulya, Bekasi Utara Kota
Bekasi - Jawa Barat 17142
(021) - 29572269

APPROVAL DRAWING					3	14 - MAR - 2025	AS SHOWN IN CLOUD (AS PER COMMENT)	D.N
PT. FICO INDO REKAYASA					2	13 - MAR - 2025	AS SHOWN IN CLOUD (AS PER COMMENT)	D.N
PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	APPROVED BY	1	11 - MAR - 2025	AS SHOWN (AS PER COMMENT)	D.N
					REV.	DATE	DESCRIPTION	ISSUED BY
DWG : FC-2503020-OFI-001								REV.03
DATE : 07 - MAR - 2025								
DATE : 10 - MAR - 2025								
DATE : 10 - MAR - 2025								
DATE :								
DATE :								





1 TOP DISHED HEAD
PL, t= 8mm SS 316L



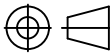
2 BOTTOM DISHED HEAD
PL, t= 10mm SS 316L

GENERAL NOTE :

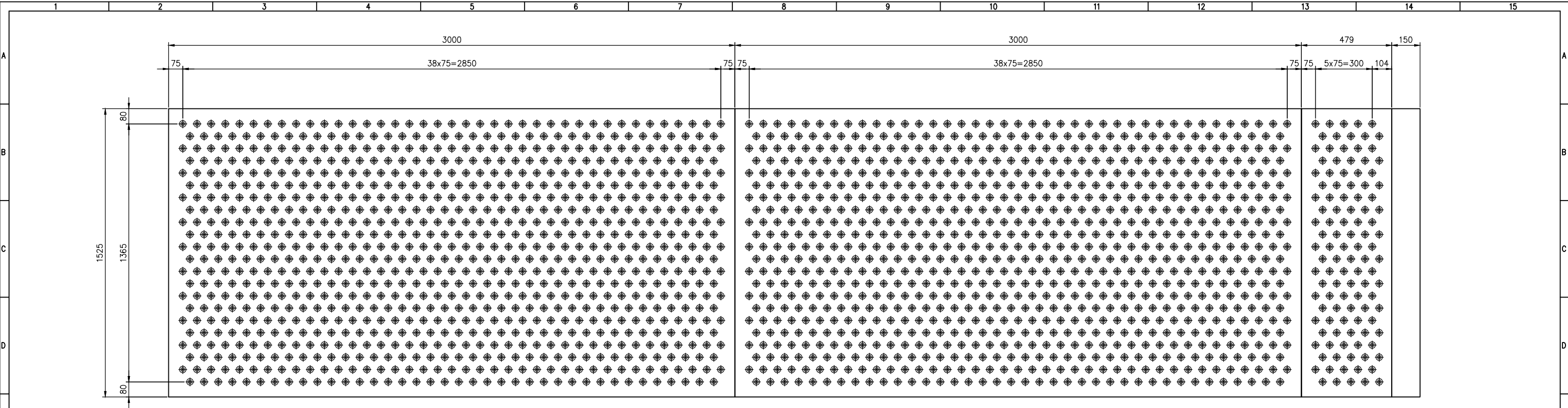
1. ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
3. NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.
4. SURFACE FINISHED :
 - INNER = Ra. 0,7 μ M
 - OUTER = GRIT #180

2	BOTTOM DISHED HEAD	SS 316L	PL, t= 10mm	—
1	TOP DISHED HEAD	SS 316L	PL, t= 8mm	—
NO.	DESCRIPTION	MATERIAL	RAW MAT. SIZE	REMARK

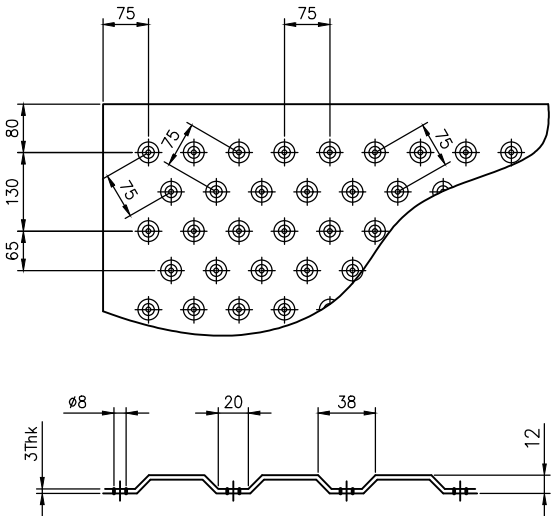
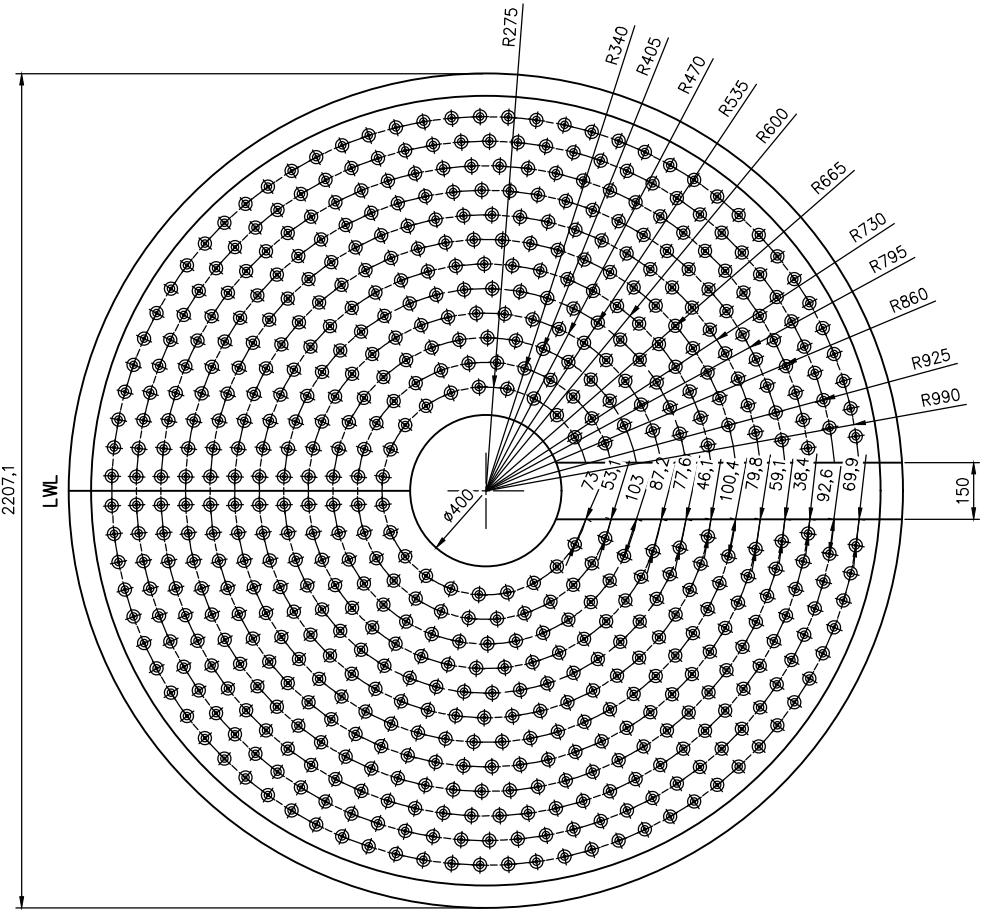
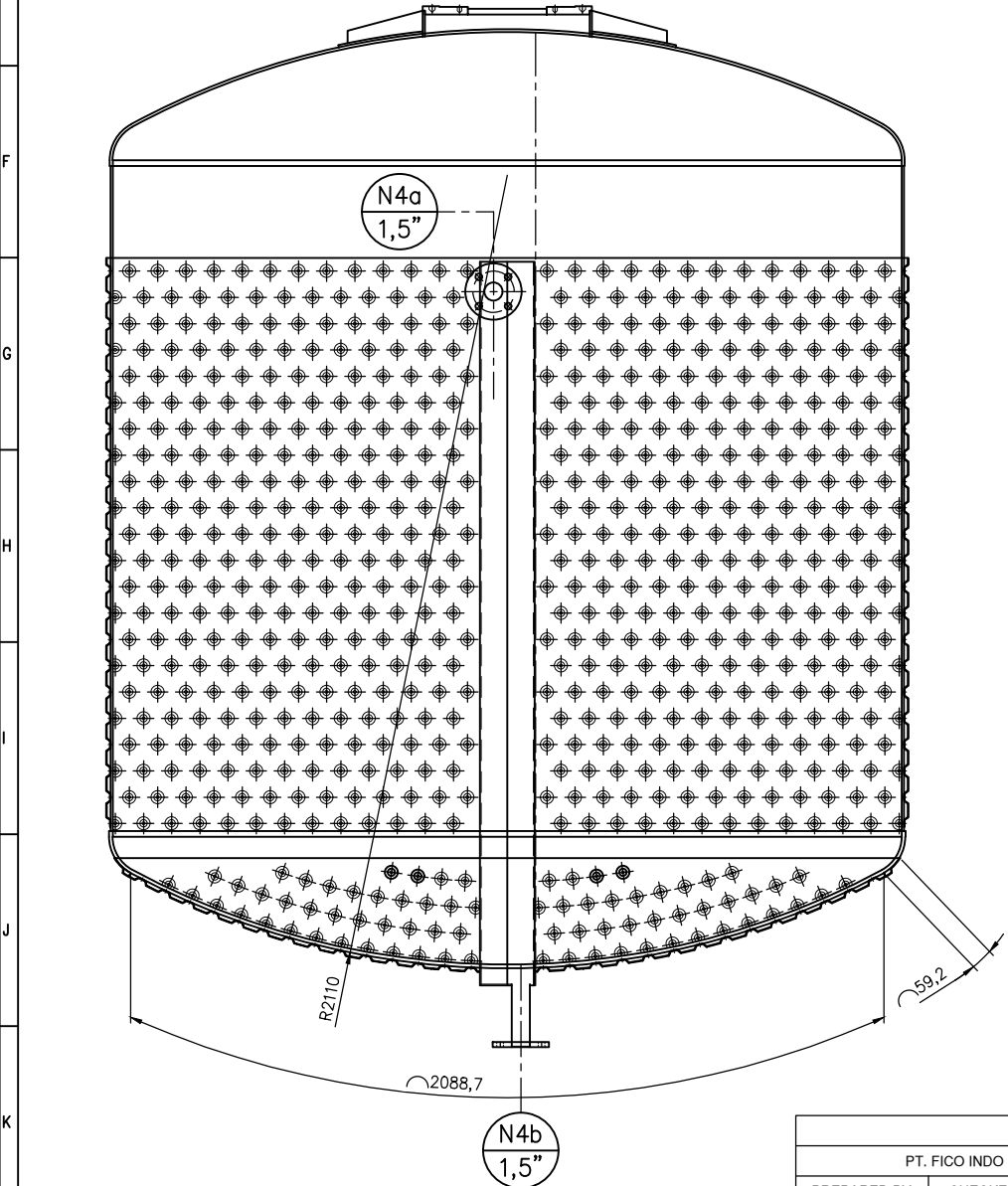
BILL OF MATERIAL

DRAWING NAME : TOP & BOTTOM DISHED HEAD			
CUSTOMER : OFI (BT COCOA)			PAPER SIZE A3
 Rukan Sinpasa B/30 Summarecon Bekasi Marga Mulya, Bekasi Utara Kota Bekasi - Jawa Barat 17142 (021) - 29572269	DRAWN BY : D.N		SCALE NTS
	CHECK'D BY : D.M		
	APPROVED BY : D.M		

APPROVAL DRAWING								
PT. FICO INDO REKAYASA			OFI (BT COCOA)					
PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	APPROVED BY	0	11 - MAR - 2025	ISSUED FOR CONSTRUCTION	D.N
					REV.	DATE	DESCRIPTION	ISSUED BY
DATE : 07 - MAR - 2025	DATE : 10 - MAR - 2025	DATE : 10 - MAR - 2025	DATE :	DATE :	DWG : FC-2503020-OFI-003			REV.00



DIMPLE JACKET
PL, t= 3mm SS 304



DIMPLE SECTION

- GENERAL NOTE :
1. ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
 2. FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
 3. NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.

2	BOTTOM DIMPLE JACKET	SS 304	PL, t= 3mm	—
1	DIMPLE JACKET	SS 304	PL, t= 3mm	—
NO.	DESCRIPTION	MATERIAL	RAW MAT. SIZE	REMARK

BILL OF MATERIAL

DRAWING NAME : DIMPLE JACKET

CUSTOMER : OFI (BT COCOA)

PAPER SIZE

A3

SCALE

NTS

DRAWN BY : D.N

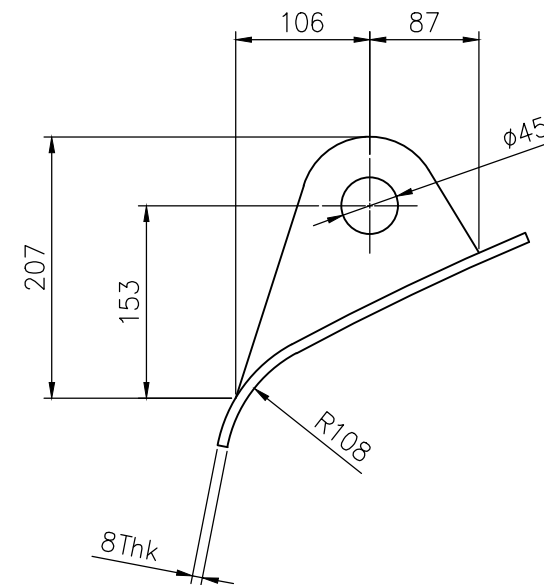
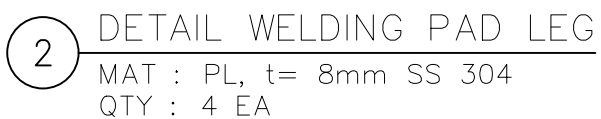
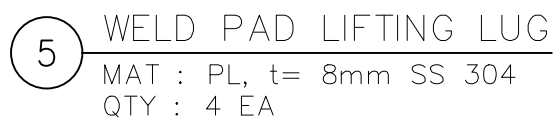
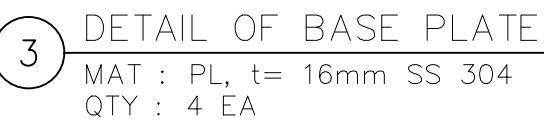
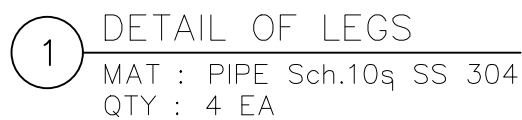
CHECK'D BY : D.M

APPROVED BY : D.M



Rukan Sinpasa B/30 Summarecon Bekasi
Marga Mulya, Bekasi Utara Kota
Bekasi - Jawa Barat 17142
(021) - 29572269

APPROVAL DRAWING									
PT. FICO INDO REKAYASA			OFI (BT COCOA)						
PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	APPROVED BY	0	11 - MAR - 2025	ISSUED FOR CONSTRUCTION	D.N	
					REV.	DATE	DESCRIPTION	ISSUED BY	
DATE : 07 - MAR - 2025	DATE : 10 - MAR - 2025	DATE : 10 - MAR - 2025	DATE :	DATE :	DWG : FC-2503020-OFI-004			REV.00	



4 DETAIL OF LIFTING LUG
MAT : PL, t= 20mm SS 304
QTY : 2 EA

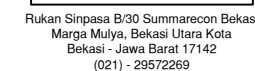
1. ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
3. NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

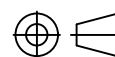
CUSTOMER	: OFI (BT COCOA)
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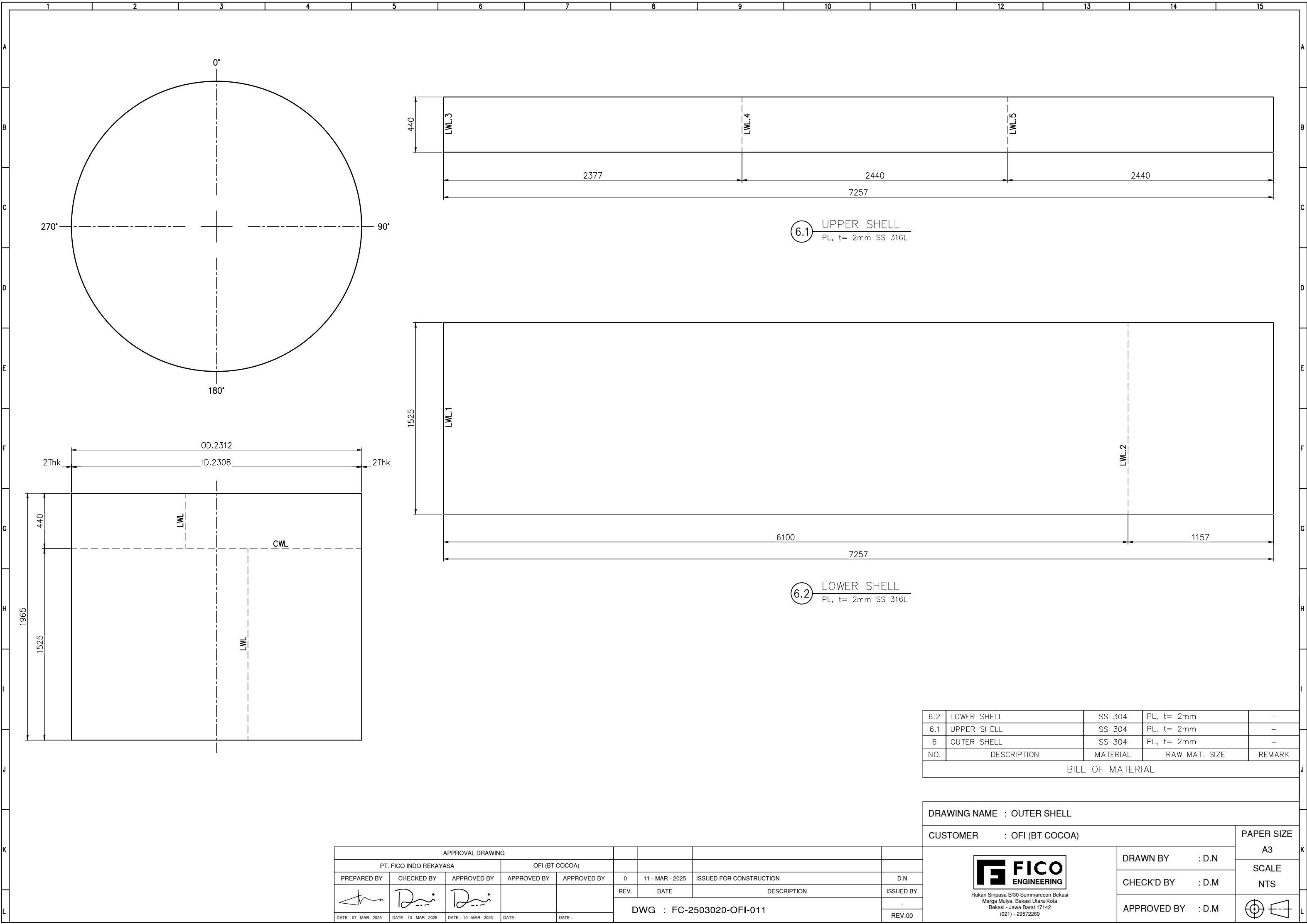
SCALE
NTS

APPROVED BY : D.M



DWG : FC-2503020-OFI-006



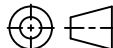


6.1 UPPER SHELL
PL, t= 2mm SS 316L

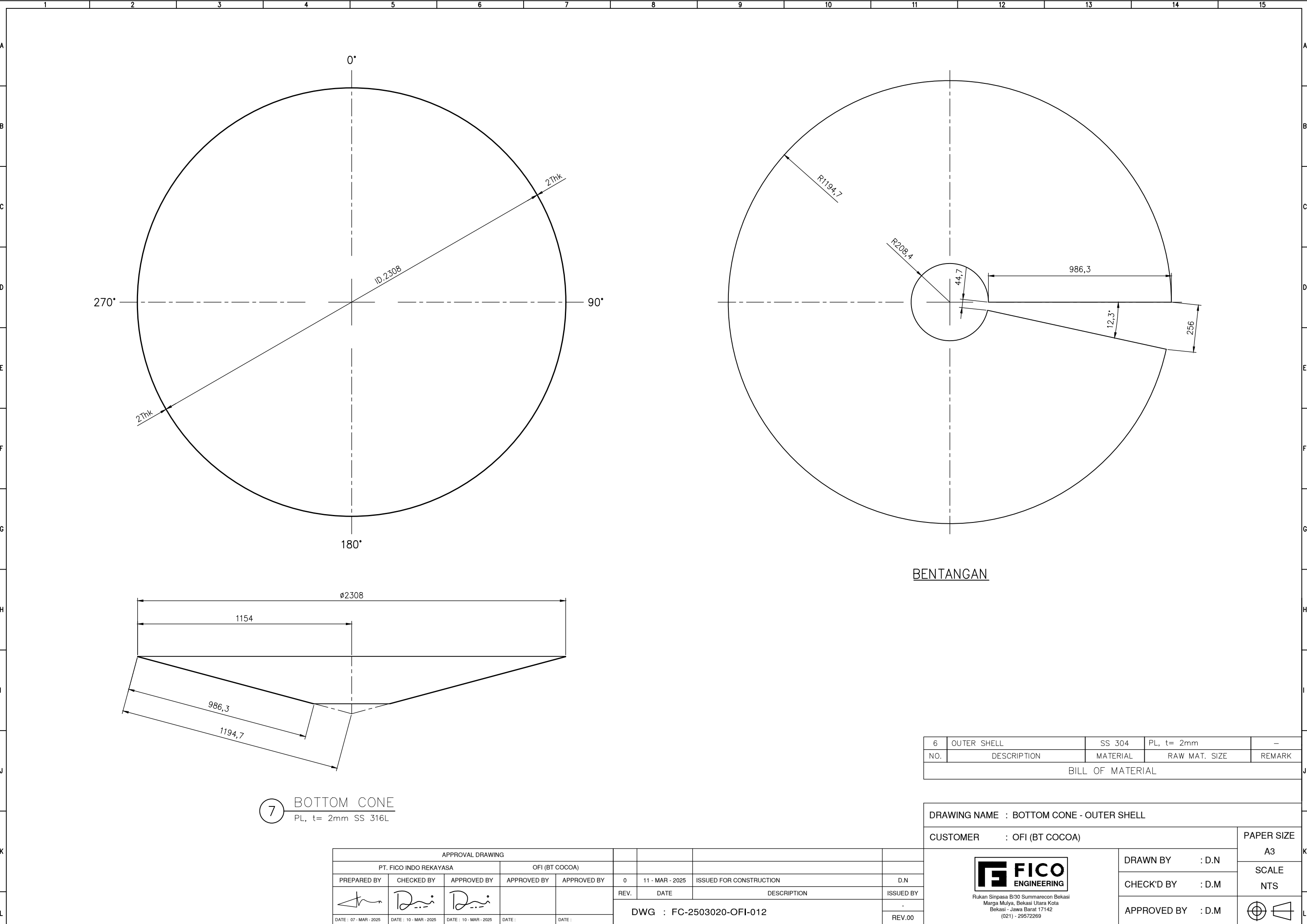
6.2 LOWER SHELL
PL, t= 2mm SS 316L

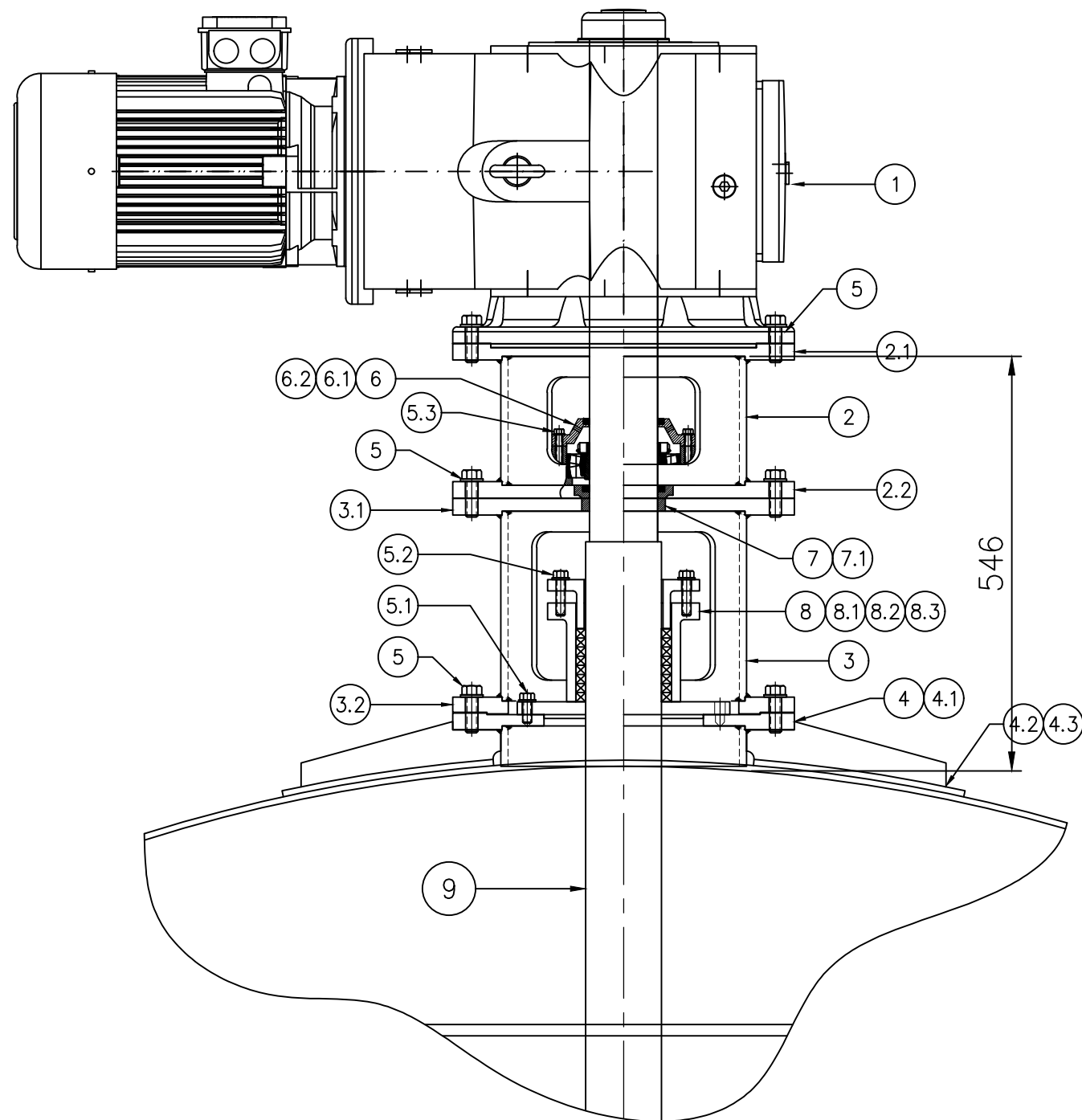
6.2	LOWER SHELL	SS 304	PL, t= 2mm	—
6.1	UPPER SHELL	SS 304	PL, t= 2mm	—
6	OUTER SHELL	SS 304	PL, t= 2mm	—
NO.	DESCRIPTION	MATERIAL	RAW MAT. SIZE	REMARK

BILL OF MATERIAL

DRAWING NAME : OUTER SHELL			
CUSTOMER : OFI (BT COCOA)			PAPER SIZE
FICO ENGINEERING Rukan Sinpasa B/30 Summarecon Bekasi Marga Mulya, Bekasi Utara Kota Bekasi - Jawa Barat 17142 (021) - 29572269			A3
			SCALE
			NTS
DRAWN BY : D.N			
CHECK'D BY : D.M			
APPROVED BY : D.M			

APPROVAL DRAWING								
PT. FICO INDO REKAYASA			OFI (BT COCOA)					
PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	APPROVED BY	0	11 - MAR - 2025	ISSUED FOR CONSTRUCTION	D.N
					REV.	DATE	DESCRIPTION	ISSUED BY
DATE : 07 - MAR - 2025	DATE : 10 - MAR - 2025	DATE : 10 - MAR - 2025	DATE :	DATE :	DWG : FC-2503020-OFI-011			REV.00





GENERAL NOTE :

1. ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
3. NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.

9	SHAFT AGITATOR	SS 316L	RB, Ø4" x 3290	—
8.3	FLANGE ADAPTER HOUSING	SS 304	RB, Ø125 x 35	—
8.2	MECH. SEAL TOP HOUSING	SS 304	RB, Ø125 x 35	—
8.1	MECH. SEAL BOTTOM HOUSING	SS 304	RB, Ø125 x 35	—
8	GLAND PACKING	PTFE	GP, 12 x 3000	—
7.1	SEAL FOR SHAFT	NBR	O-RING, TYPE P90	—
7	SHAFT BUSHING	PTFE	PTFE ROD, Ø130 x 34t	—
6.2	SPHERICAL BEARING	—	ID.90mm TAPERED TYPE	—
6.1	LOWER BEARING HOUSING	SS 304	RB, Ø200 x 50	—
6	UPPER BEARING HOUSING	SS 304	RB, Ø200 x 35	—
5.3	L-TYPE HEAD BOLT	SS 304	M8 x 90	—
5.2	HEX. HEAD BOLT	SS 304	M12 x 45 c/w WASHER	—
5.1	HEX. HEAD BOLT	SS 304	M12 x 30 c/w WASHER	—
5	HEX. HEAD BOLT	SS 304	M16 x 50 c/w WASHER	—
4.3	WELDING PAD STIFFENER PLATE	SS 304	PL, 230 x 70 x 8t	—
4.2	STIFFENER PLATE	SS 304	PL, 200 x 90 x 8t	—
4.1	FLANGE ADAPTER	SS 304	PL, Ø450 x 22t	—
4	NOZZLE ADAPTER AGITATOR	SS 316L	TUBE, Ø450 x 70 x 8t	—
3.2	LOWER FLANGE ADAPTER	SS 304	PL, Ø450 x 22t	—
3.1	UPPER FLANGE ADAPTER	SS 304	PL, Ø450 x 22t	—
3	GLAND PACKING HOUSING COVER	SS 304	PIPE, 12" Sch.10	—
2.2	LOWER FLANGE ADAPTER	SS 304	PL, Ø450 x 22t	—
2.1	UPPER FLANGE ADAPTER	SS 304	PL, Ø450 x 22t	—
2	BEARING HOUSING COVER	SS 304	PIPE, 12" Sch.10	—
1	AGITATOR "NORD"	—	SK9072.1AFB-132MP/4TF	—
NO.	DESCRIPTION	MATERIAL	RAW MAT. SIZE	REMARK

BILL OF MATERIAL

DRAWING NAME : DETAIL OF AGITATOR ADAPTER COMPONENT

CUSTOMER : OFI (BT COCOA)



Rukan Sinpasa B/30 Summarecon Bekasi
Marga Mulya, Bekasi Utara Kota
Bekasi - Jawa Barat 17142
(021) - 29572269

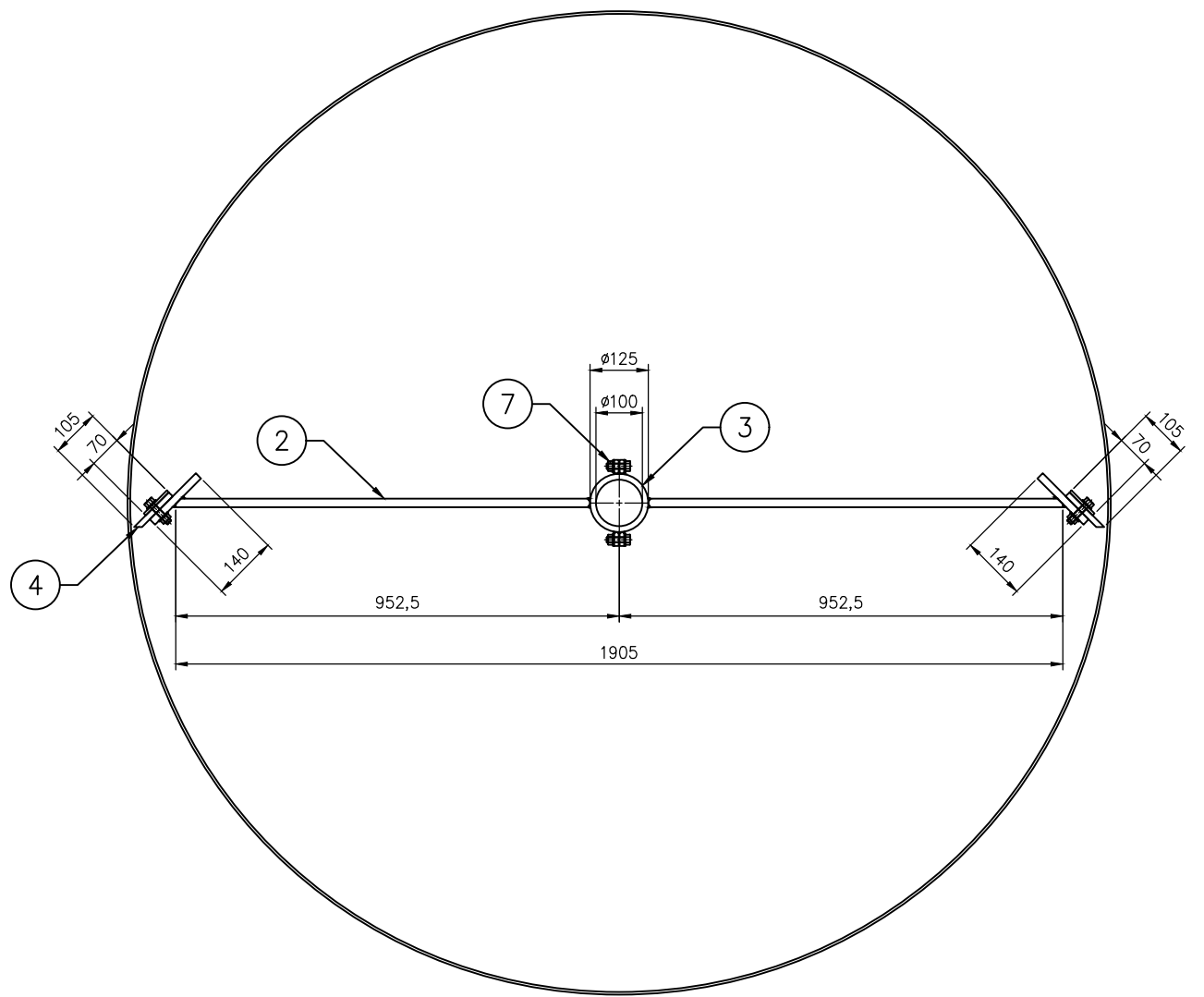
DRAWN BY : D.N

DRAWN BY	D.N	SCALE

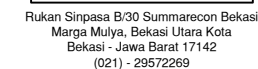
CHECK'D BY : D.M

APPROVED BY: 

APPROVAL DRAWING								
PT. FICO INDO REKAYASA			OFI (BT COCOA)					
PREPARED BY	CHECKED BY	APPROVED BY	APPROVED BY	APPROVED BY	0	11 - MAR - 2025	ISSUED FOR CONSTRUCTION	D.N
					REV.	DATE	DESCRIPTION	ISSUED BY
DATE : 11 - MAR - 2025	DATE : 12 - MAR - 2025	DATE : 12 - MAR - 2025	DATE :	DATE :	DWG : FC-2503020-OFI-013			-
								REV.00

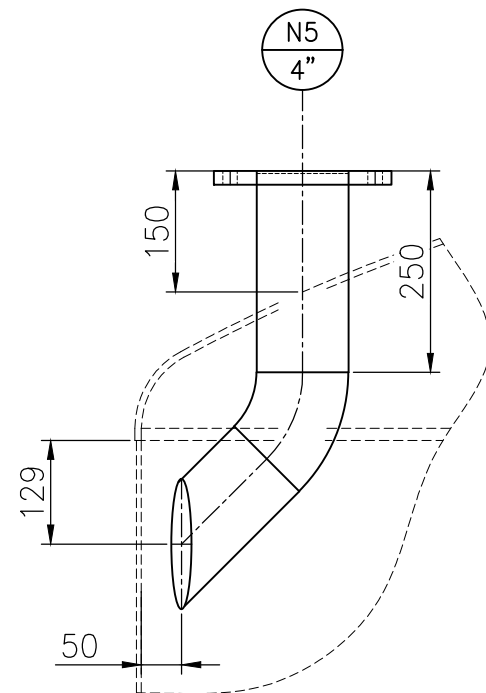


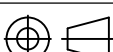
1. ALL DIMENSION SHOWN ARE IN MILLIMETER UNLESS OTHERWISE NOTED.
2. FLANGE, BOLT, HOLE SHALL BE STRADDLE THAT NATURE CENTERLINE.
3. NOZZLE PROJECTION ARE MEASURE FROM VESSEL CENTERLINE TO EXTREME FACE FLANGE UNLESS OTHERWISE NOTED.

BILL OF MATERIAL

APPROVED BY : D.M

DWG : FC-2503020-OFI-025



DRAWING NAME : DETAIL OF NON-FOAMING INLET			
CUSTOMER : OFI (BT COCOA)		PAPER SIZE	
 Rukan Sinpasa B/30 Summarecon Bekasi Marga Mulya, Bekasi Utara Kota Bekasi - Jawa Barat 17142 (021) - 29572269		A3	
		SCALE	
		NTS	
DRAWN BY : D.N			
CHECK'D BY : D.M			
APPROVED BY : D.M			

PT. FICO INDO REKAYASA

VISUAL INSPECTION RECORD

Document No.	: FR-QC-005
Date of Issued	: 05-Dec-2019
Revision	: 0
Date of Revision	: -

Customer : OFI BT COCOA

Order / Project No. : 25.03.020

Project Name : Choco Mixing Tank 6000 L

Report No. : 01/VIR/VI/25

Date : 20 Juni 2025

Drawing No. : FC-2503020-OFI-001

No.	Assembly Description	MTI Report No.	Weld Joint No.	WPS No.	Welder Stamp / Name	Welding Compl. Date	Result	Remarks
1	Weld Top Dished Head	01/MTC/VI/25	J1	01-WPS-ASME	Wawan	6-Mar-25	ACC	
2	Weld Bottom Dished Head	01/MTC/VI/25	J2	01-WPS-ASME	Wawan	6-Mar-25	ACC	
3	Weld Inner Shell 1A to 1B	01/MTC/VI/25	J3	01-WPS-ASME	Saipan	21-Apr-25	ACC	
4	Weld Inner Shell 1B to 1C	01/MTC/VI/25	J4	01-WPS-ASME	Saipan	21-Apr-25	ACC	
5	Weld Inner Shell 1C to 1A	01/MTC/VI/25	J5	01-WPS-ASME	Saipan	21-Apr-25	ACC	
6	Weld Inner Shell 2A to 2B	01/MTC/VI/25	J6	01-WPS-ASME	Wawan	21-Apr-25	ACC	
7	Weld Inner Shell 2B to 2C	01/MTC/VI/25	J7	01-WPS-ASME	Wawan	21-Apr-25	ACC	
8	Weld Inner Shell 2C to 2A	01/MTC/VI/25	J8	01-WPS-ASME	Wawan	21-Apr-25	ACC	
9	Weld Inner Shell 1 to 2	01/MTC/VI/25	J9	01-WPS-ASME	Wawan	6-Mei-25	ACC	
10	Weld Inner Shell to Top Dished	01/MTC/VI/25	J10	01-WPS-ASME	Saipan	13-Mei-25	ACC	
11	Weld Inner Shell to Bottom Dished	01/MTC/VI/25	J11	01-WPS-ASME	Wawan	13-Mei-25	ACC	
12	Weld Legs	01/MTC/VI/25	J12	01-WPS-ASME	Wawan	5-Jun-25	ACC	
13	Weld Lifting Lug	01/MTC/VI/25	J13	01-WPS-ASME	Saipan	27-Mei-25	ACC	
14	Weld Top Nozzle	01/MTC/VI/25	J14	01-WPS-ASME	Saipan	22-Mei-25	ACC	
15	Weld Manhole	01/MTC/VI/25	J15	01-WPS-ASME	Saipan	22-Mei-25	ACC	
16	Weld Nozzle Adapter Agitator	01/MTC/VI/25	J16	01-WPS-ASME	Saipan	23-Mei-25	ACC	
17	Weld Bottom Nozzle	01/MTC/VI/25	J17	01-WPS-ASME	Wawan	23-Mei-25	ACC	
18	Weld Side Nozzle	01/MTC/VI/25	J18	01-WPS-ASME	Wawan	27-Mei-25	ACC	
19	Weld Dimple Jacket	01/MTC/VI/25	J19	01-WPS-ASME	Saipan	6-Jun-25	ACC	
20	Weld Outer Shell	01/MTC/VI/25	J20	01-WPS-ASME	Wawan	12-Jun-25	ACC	
21	Weld Bottom Cone	01/MTC/VI/25	J21	01-WPS-ASME	Saipan	12-Jun-25	ACC	
22	Weld Outer Shell to Bottom Cone	01/MTC/VI/25	J22	01-WPS-ASME	Saipan	18-Jun-25	ACC	
23	Weld Outer Shell to Top Rim	01/MTC/VI/25	J23	01-WPS-ASME	Saipan	18-Jun-25	ACC	
Note / Comment:		FICO QC Approved		Client Rep. Approved		Authorized Inspector		
		Abdurrahman						

NON-CONFORMANCE REPORT

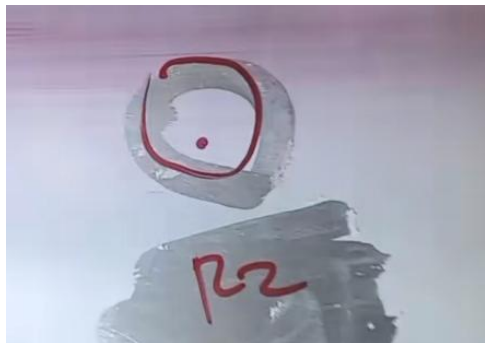
Document No.	: FR-QC-003
Date of Issued	: 05-Dec-2019
Revision	: 0
Date of Revision	: -

Customer : OFI BT COCOA
Order / Project No. : 25.03.020
Project Name : Choco Mixing Tank 6000 L
Part No. : 001 & 013

Report No. : 01/NCR/VI/25
Quantity : 2 ea
Joint No. : J2 & J7
ITP No. : 01-QP-114

Problem

Telah ditemukan cacat porosity pada welding joint J2 dan J7.



Proposed Disposition

- ☐ Use-As-Is
- ☒ Repair
- ☐ Rework
- ☐ Reject
- ☐ Other

Corrective Action Taken

Prepared By, :
(QC Inspector) : Abdurrahman

Reviewed and
Approved By,

QC Dept. Manager

Engineering Dept. Manager

Accepted AI / Customer

Verification

☐ Accept

☐ Reject

☒ QC Dept.

☐ AI/Customer

PT. FICO INDO REKAYASA

LIQUID PENETRANT EXAMINATION REPORT

Document No.	: FR-QC-004
Date of Issued	: 05-Dec-2019
Revision	: 0
Date of Revision	: -

Customer : OFI BT COCOA
Order / Project No. : 25.03.020
Project Name : Choco Mixing Tank 6000 L
Location : Workshop PT. Fico Indo Rekayasa

Report No. : 01/PT/VI/25
Drawing No. : FC-2503020-OFI-001
ITP No. : 01-QP-114

Surface Condition	☒ Welded	☒ Ground Flush	☐ Other ()	
Stage of Exam.	☐ After Welding	☐ After Hydrostatic	☒ Other (Polished)	
Welding Process	☒ GTAW	☐ SMAW	☐ Other ()	
Scope of Examination	☐ Base Metal	☐ Black Chipping	☒ Weld Part	
	☒ Edge Prep.	☐ Repair Weld	☒ Other ()	
Penetrant	☐ Water Was.	☐ Post Emulsifier	☒ Solvent Removable	
	☒ SKL-SP1	☐ Other ()	Dwell Time : 20 Minutes	
	Application by :	☒ Brushing	☐ Spraying	☐ Other ()
Type of Developer	SKD-S2	☒ Dry Developer	☐ Aqueous Dev.	☐ Non Aqueous Dev.
	Developing Time : 5 Minutes		Interpretation : 15 Minutes	
Type of Cleaner	☒ SKC-S	☐ Other ()	Applicable Code : ASME BPE	
Type of Penetrant	☒ Visible	☐ Fluorescence		

Choco Mixing Tank 6000 L

Welding Identification	Thickness (mm)	Judgement		Type of Discontinuity	Material	Remarks
		Accepted	Rejected			
J.01	8 mm	V		No any Discontinuity	SS 316L	
J.02	10 mm	V		No any Discontinuity	SS 316L	
J.03	6 mm	V		No any Discontinuity	SS 316L	
J.04	6 mm	V		No any Discontinuity	SS 316L	
J.05	6 mm	V		No any Discontinuity	SS 316L	
J.06	6 mm	V		No any Discontinuity	SS 316L	
J.07	6 mm	V		No any Discontinuity	SS 316L	
J.08	6 mm	V		No any Discontinuity	SS 316L	
J.09	6 mm	V		No any Discontinuity	SS 316L	
J.010	8 mm	V		No any Discontinuity	SS 316L	
J.011	10 mm	V		No any Discontinuity	SS 316L	
J.012	6 mm	V		No any Discontinuity	SS 316L	
J.013	10 mm	V		No any Discontinuity	SS 316L	
J.014	6 mm	V		No any Discontinuity	SS 316L	
J.015	6 mm	V		No any Discontinuity	SS 316L	
J.016	8 mm	V		No any Discontinuity	SS 316L	
J.017	6 mm	V		No any Discontinuity	SS 316L	
J.018	6 mm	V		No any Discontinuity	SS 316L	
J.019	6 mm	V		No any Discontinuity	SS 316L	

End

See welding map for welding identification

Examined By,	Reviewed / Witnessed By,	Approved By,
Abdurrahman Date : 26 Juni 2025		

HYDROSTATIC TEST RECORD

Document No.	: FR-QC-011
Date of Issued	: 05-Dec-2019
Revision	: 0
Date of Revision	: -

Customer : OFI BT COCOA
 Order / Project No. : 25.03.020
 Project Name : Choco Mixing Tank 6000 L
 Location : Workshop PT. Fico Indo Rekayasa

Report No. : 01/HT/VI/25
 Drawing No. : FC-2503020-OFI-001
 ITP No. : 01-QP-114

HYDROSTATIC TEST REPORT

DATA :

Type	: Double Wall Vertical Jacketed Tank
Size	: Ø 2100 mm X 1770 mm
Capacity	: 6000 liter
Service	: Mixing Tank
Pressure & Design Temp.	7 bar / 90 °C
Max. Allowable Working Press.	8 bar / (Limited by Design Pressure)
Normal Working Pressure & Temp.	4 bar / 60 °C
Joint Efficiencies	0,7
NDE/NDT Testing	- Visual Inspection Examination - Liquid Penetrant Test
Test Pressure	: 6 bar
Holding Time	: 120 Minutes
Applicable Code and Standard	: ASME B31.1
Manufacturer	: PT. Fico Indo Rekayasa
Date of Manufacturing	: 2025

TEST RESULT : ACCEPTED

Test Media	: Water
Actual Test Pressure	: 6 bar
Holding Time	: 120 Minutes
Test Condition	: After Welding
Date of Testing	: 27 Juni 2025

TEST EQUIPMENT :

Pressure Test Pump	: Model HHS-350, Range 0 – 8 Mpa
Pressure Gauge	: Brand Wika, Range 0 – 40 bar

TEST TABLE DATA :

No.	Date	Time	Pressure (bar)	Duration Time		Remarks
				Hours	Minutes	
1	27 / 05 / 2025	14:00 – 14:15	2		15	No leaks
2	27 / 05 / 2025	14:20 – 14:35	4		15	No leaks
3	27 / 05 / 2025	14:40	6		120	No leaks
4	27 / 05 / 2025	16:40	6			No leaks

Witnessed By PT. Fico,		Reviewed By OFI,	
Abdurrahman Date : 27 Juni 2025	Joko Dwi Y Date : 27 Juni 2025		

Customer : OFI BT COCOA
Order / Project No. : 25.03.020
Project Name : Choco Mixing Tank 6000 L

Report No. : 01/RTR/VI/25
Date : 30 Juni 2025
Ra Max. : 0,8 µm

Pos.	Description	Material	Thickness (mm)	Result (µm)	Judgment		Remarks
					Accepted	Rejected	
R01	Inner Top Dished Head	SS 316L	8	0,550	ACC		Around Weld Joint J16
R02	Inner Top Dished Head	SS 316L	8	0,471	ACC		Around Weld Joint J1
R03	Inner Shell (Top 0° Orientation)	SS 316L	6	0,478	ACC		Around Weld Joint J10
R04	Inner Shell (Top 180° Orientation)	SS 316L	6	0,382	ACC		Around Weld Joint J10
R05	Inner Shell	SS 316L	6	0,363	ACC		Around Weld Joint J3
R06	Inner Shell	SS 316L	6	0,212	ACC		Around Weld Joint J5
R07	Inner Shell (Middle 0° Orientation)	SS 316L	6	0,307	ACC		Around Weld Joint J9
R08	Inner Shell (Middle 180° Orientation)	SS 316L	6	0,356	ACC		Around Weld Joint J9
R09	Inner Shell	SS 316L	6	0,365	ACC		Around Weld Joint J7
R010	Inner Shell	SS 316L	6	0,313	ACC		Around Weld Joint J6
R011	Inner Shell (Bottom 0° Orientation)	SS 316L	6	0,515	ACC		Around Weld Joint J11
R012	Inner Shell (Bottom 180° Orientation)	SS 316L	6	0,524	ACC		Around Weld Joint J11
R013	Inner Bottom Dished Head	SS 316L	10	0,471	ACC		Around Weld Joint J12
R014	Inner Bottom Dished Head	SS 316L	10	0,430	ACC		Around Weld Joint J17



(R01)



(R02)



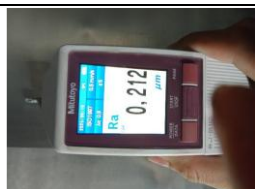
(R03)



(R04)



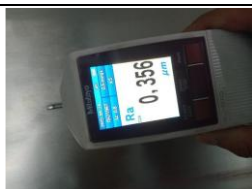
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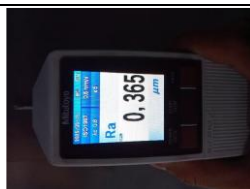
(R06)



(R07)



(R08)



(R09)



(R010)



(R011)



(R012)



(R013)



(R014)

See welding map and roughness map for detail roughness position

Prepared By,	Reviewed / Witnessed By,	Approved By,
Abdurrahman Date : 30 Juni 2025		

PT. FICO INDO REKAYASA

MATERIAL TRACEABILITY REPORT

Document No.	: FR-QC-003
Date of Issued	: 05-Dec-2019
Revision	: 0
Date of Revision	: -

Customer : OFI BT COCOA

Order / Project No. : 25.03.020

Project Name : Choco Mixing Tank 6000 L

Report No. : 01/MTC/VI/25

Date : 02 Juni 2025

Drawing No. : FC-2503020-OFI-001

No.	Part Name	Specification / Grade	Size / Thickness	Qty.	Heat No. / Cast No.	Remarks
1	Plate	Plate Sheet 1B SS316L	4'x8' / 10mm	2	Y240915G65-7	
2	Plate	Plate Sheet 1B SS316L	4'x8' / 8mm	2	Y241004C13-6	
3	Plate	Plate Sheet 1B SS316L	4'x8' / 6mm	4	Y241002C77-5	
4	Plate	Plate Sheet 2B SS304	5'x20' / 2mm	2	Y240107B25-5	
5	Dimple	Plate Dimple 1B SS304	5'x20' / 3mm	2	YH2402326	
6	Pipa	Pipe Welded SS304	5" / Sch.10s	1	Y220925D502	
7	Pipa	Pipe Welded SS316L	4", 2", 1,5" / Sch.10s	1		
8	Elbow	Pipe Welded SS316L	4", 2", 1,5" / Sch.10s	4		
9	Flange	Flange Slip-on SS304	4", 2", 1,5" / JIS 10K	4		
10	Manhole	Round Manhole Minox-A500 SS316L	D:506 x H:100	1	A0302103	
11	Motor Agitator	Helical Bevel Gear Motor SK9072.1	D:450 / 7,5 kW	1	103069721	
12	Bearing	Spherical Roller Bearing NTN-23220	ID: 90mm	1		
13	Sleeve	Adapter Sleeve NTN-H2320X	90mm	1		

End

Note / Comment:	FICO QC Approved	Client Rep. Approved	Authorized Inspector
	Abdurrahman		

LEMBAR BIMBINGAN TUGAS AKHIR



Nama : Dedy Nuriman

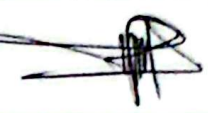
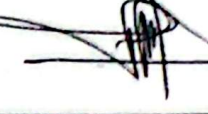
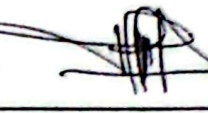
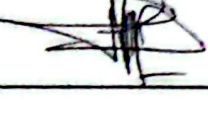
NIM : 24024001

Produk Tugas Akhir : Tangki Pencampur Berbahan Stainless Steel

Judul Tugas Akhir : Proses Fabrikasi Tangki Pencampur Pasta Cokelat

PROGRAM STUDI DIII TEKNIK MESIN
UNIVERSITAS HARKAT NEGERI
2026

Rekap Pembimbing Laporan Tugas Akhir

Rekap Pembimbing Laporan Tugas Akhir				
PEMBIMBING 1			Nama Pembimbing	: Firman Lukman Sanjaya, M.T
			NIDN	: 0630069202
No	Hari	Tanggal	Uraian	Tanda Tangan
1	Kamis	12/02 2026	BAB I Pendahuluan	
2	Jum'at	13/02 2026	BAB II Literatur Teori Landasan Teori	
3	Selasa	24/03 2026	Revisi BAB II Sitasi Literatur untuk Daftar Pustaka	
4	Rabu	25/03 2026	BAB III Metode Analisis Data	
5	Jum'at	29/04 2026	Revisi BAB III Sitasi	
6	Selasa	12/05 2026	Revisi BAB IV Dokumentasi hasil fabrikasi	
7	Rabu	13/05 2026	Revisi BAB V Kesimpulan	
8	Rabu	20/05 2026	Acc Laporan.	
9				
10				

Rekap Pembimbing Laporan Tugas Akhir

PEMBIMBING 2			Nama Pembimbing	: Faqih Fakhurrozat, M.T
			NIDN	: 0616079002
No	Hari	Tanggal	Uraian	Tanda Tangan
1	Kamis	12/02 2026	BAB I Rumusan dan Batasan Masalah	
2	Jum'at	13/02 2026	BAB II Literatur Teori Landasan Teori	
3	Selasa	24/03 2026	BAB II Sitasi Literatur untuk Daftar Pustaka	
4	Rabu	25/03 2026	BAB III Metodologi Penelitian	
5	Jum'at	29/04 2026	Revisi BAB III Sitasi	
6	Selasa	12/05 2026	Revisi BAB IV Hasil fabrikasi setelah finishing.	
7	Rabu	13/05 2026	Revisi BAB V Saran	
8	Rabu	20/05 2026	ACC	
9				
10				

PENGAJUAN KESEDIAAN PEMBIMBING DAN JUDUL TUGAS AKHIR

Kami yang bertanda tangan dibawah ini :

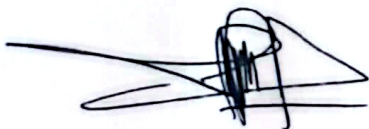
No	NIDN/NUPN	Nama (lengkap dengan gelar)	Keterangan
1	0630069202	Firman Lukman Sanjaya, M.T	Pembimbing I
2	0616079002	Faqih Fatkhurrozak, M.T	Pembimbing II

Menyatakan **BERSEDIA / TIDAK BERSEDIA** membimbing Tugas Akhir mahasiswa berikut :

No	NIM	Nama Mahasiswa	Kelas
1	24024001	Dedy Nuriman	RPL
2			
3			
4			
5			
Produk Tugas Akhir			

Sesuai dengan waktu yang telah disepakati, Tugas Akhir dilaksanakan mulai bulan Februari tahun 2026 sampai dengan pelaksanaan Sidang Tugas Akhir bulan Juli tahun 2026.
Tegal, 3 Februari 2026.

Pembimbing 1,



Firman Lukman Sanjaya, M.T
NIDN. 0630069202

Pembimbing 2,



Faqih Fatkhurrozak, M.T
NIDN. 0616079002

Ketua Program Studi
Diploma III Teknik Mesin



M. Khumaidi Usman. M.Eng
NIPY. 01.015.263

PENGAJUAN PRODUK TUGAS AKHIR

Kepada Yth : Koordinator Tugas Akhir
Program Studi DIII Teknik Mesin Universitas Harkat Negeri

Dengan hormat,

Yang bertanda tangan di bawah ini, saya mahasiswa Program Studi DIII Teknik Mesin Universitas Harkat Negeri,

No	NIM	Nama
1	24024001	Dedy Nuriman
2		
3		
4		
5		

Mengusulkan Produk Tugas Akhir :

Produk Tugas Akhir	Dasar Pengambilan Produk Tugas Akhir
	Tangki pencampur pasta cokelat

Demikian surat permohonan ini saya buat, agar dapat dijadikan periksa adanya.

Tegal, 3 Februari 2026
Perwakilan kelompok
Mahasiswa calon peserta Tugas Akhir



(Dedy Nuriman)