


LAMPIRAN 2

Data Hasil Pengujian Tarik Material Uji

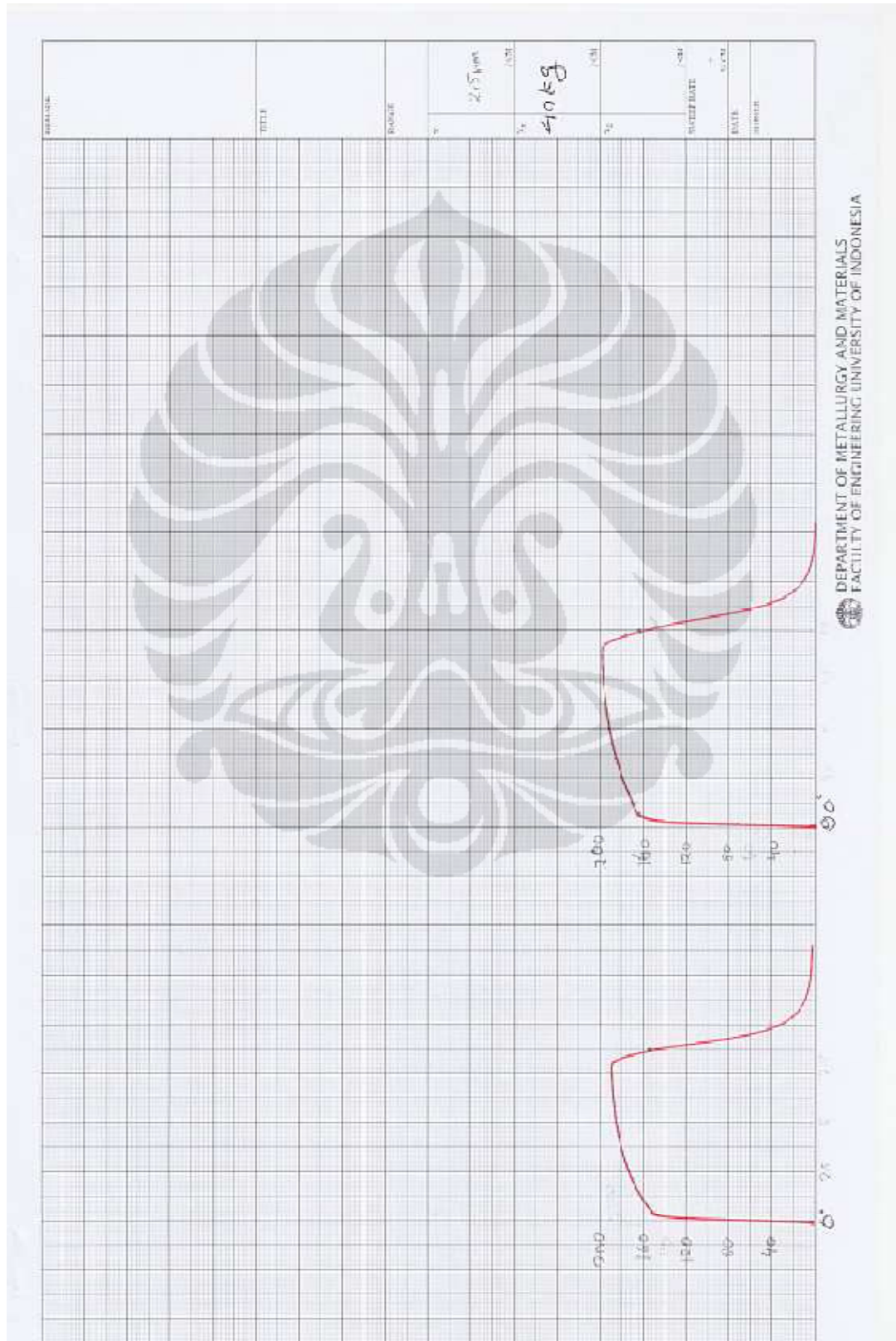
 CENTER FOR MATERIAL PROCESSING AND FAILURE ANALYSIS UNIVERSITAS INDONESIA – DEPARTEMEN TEKNIK METALURGI & MATERIAL LABORATORIUM UJI MATERIAL Kampus Baru UI – Depok 16424 – Indonesia Phone : 021 – 788.49045, 766.3510 Fax : 021 – 787.2350 E-mail : crmpfa@metallui.ac.id		Lembar Data Pengujian Tarik (Tensile Testing Data Sheet)										
Nama customer		No Kontrak	Tanggal Uji									
Mesin Uji		Teknisi Penguji	Paraf Teknisi									
Bahan		Standar/Metode Uji	Tanggal bahan diterima									
Identitas Bahan												
No	Kode Sampel	Bentuk Sampel	Dimensi Sampel (mm)	Luas penampang (mm ²)	Panjang ukur (mm)	Pu (kg)	Py (kg)	AL (mm)	su (kg/mm ²)	σy (kg/mm ²)	ε (%)	Ket.
1	0 ¹	<input type="checkbox"/> Rod/Tube <input checked="" type="checkbox"/> Pelat	t = 0,20 b = 23,10	4,162	50	190	150	7,60	41	32	15,20	
2	90 ¹	<input type="checkbox"/> Rod/Tube <input checked="" type="checkbox"/> Pelat	t = 0,20 b = 23,10	4,161	50	199	160	6,90	43	34	17,18	
		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										
		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										
		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										
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		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										
		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										
		<input type="checkbox"/> Rod/Tube <input type="checkbox"/> Pelat										

* Coret Yang Tidak Perlu

Formulir : FF-32/Mer-Uj Rev : 0

LAMPIRAN 3

Grafik Hasil Uji Tarik mesin Shimadzu

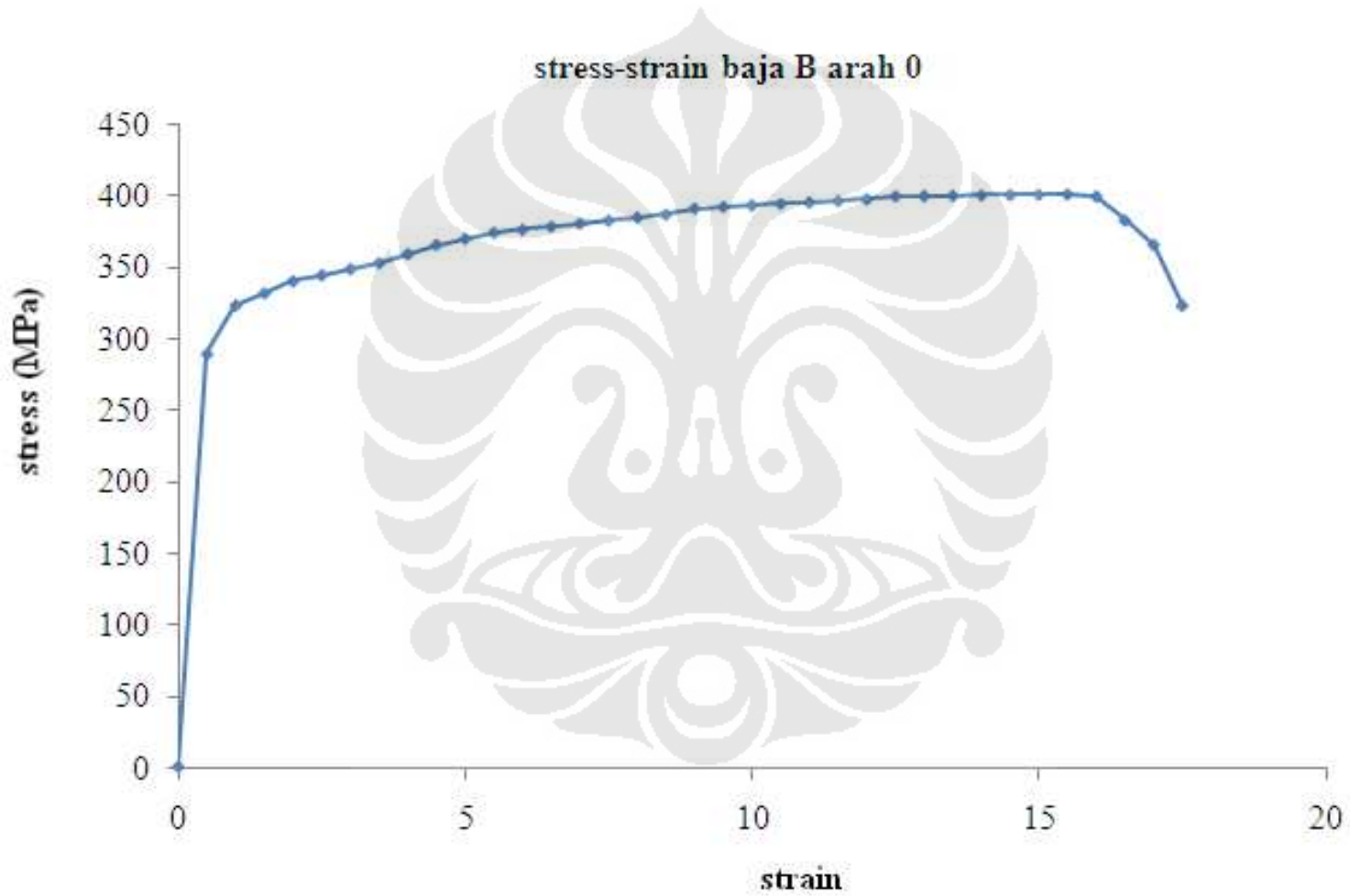


LAMPIRAN 4

Uji tarik arah 0°

dl (mm)	P (kg)	Strain (10 ⁻²)	Stress (MPa)	dl (mm)	P (kg)	Strain (10 ⁻²)	Stress (MPa)
0	0	0	0	4.25	182	8.5	386.2969697
0.25	136	0.5	288.6614719	4.5	184	9	390.5419913
0.5	152	1	322.621645	4.75	184.5	9.5	391.6032468
0.75	156	1.5	331.1116883	5	185	10	392.6645022
1	160	2	339.6017316	5.25	185.5	10.5	393.7257576
1.25	162	2.5	343.8467532	5.5	186	11	394.787013
1.5	164	3	348.0917749	5.75	186.5	11.5	395.8482684
1.75	166	3.5	352.3367965	6	187	12	396.9095238
2	169	4	358.704329	6.25	188	12.5	399.0320346
2.25	172	4.5	365.0718615	6.5	188.1	13	399.2442857
2.5	174	5	369.3168831	6.75	188.2	13.5	399.4565368
2.75	176	5.5	373.5619048	7	188.3	14	399.6687879
3	177	6	375.6844156	7.25	188.4	14.5	399.881039
3.25	178	6.5	377.8069264	7.5	188.5	15	400.09329
3.5	179	7	379.9294372	7.75	188.6	15.5	400.3055411
3.75	180	7.5	382.0519481	8	188	16	399.0320346
4	181	8	384.1744589	8.25	180	16.5	382.0519481

Gambar Kurva stress-strain arah 0°



LAMPIRAN 5

Uji tarik arah 90°

dl	P	Strain (10 ⁻²)	Stress (MPa)	dl	P	Strain (10 ⁻²)	Stress (MPa)
0	0	0	0	5	192	10	408.4060738
0.25	71	0.5	151.0251627	5.25	192.1	10.5	408.6187852
0.5	156	1	331.8299349	5.5	192.2	11	408.8314967
0.75	164	1.5	348.8468547	5.75	193	11.5	410.5331887
1	168	2	357.3553145	6	193.5	12	411.5967462
1.25	170	2.5	361.6095445	6.25	193.7	12.5	412.0221692
1.5	172	3	365.8637744	6.5	194	13	412.6603037
1.75	174	3.5	370.1180043	6.75	194.4	13.5	413.5111497
2	176	4	374.3722343	7	195	14	414.7874187
2.25	178	4.5	378.6264642	7.25	195.5	14.5	415.8509761
2.5	180	5	382.8806941	7.5	196	15	416.9145336
2.75	181	5.5	385.0078091	7.75	196.5	15.5	417.9780911
3	182	6	387.1349241	8	197	16	419.0416486
3.25	184	6.5	391.389154	8.25	197.5	16.5	420.1052061
3.5	185	7	393.516269	8.5	198	17	421.1687636
3.75	186	7.5	395.6433839	8.75	198.5	17.5	422.232321
4	188	8	399.8976139	9	198.7	18	422.657744
4.25	189	8.5	402.0247289	9.25	196	18.5	416.9145336
4.5	190	9	404.1518438	9.5	188	19	399.8976139
4.75	191	9.5	406.2789588	9.75	176	19.5	374.3722343

Gambar Kurva stress-strain arah 90°

