

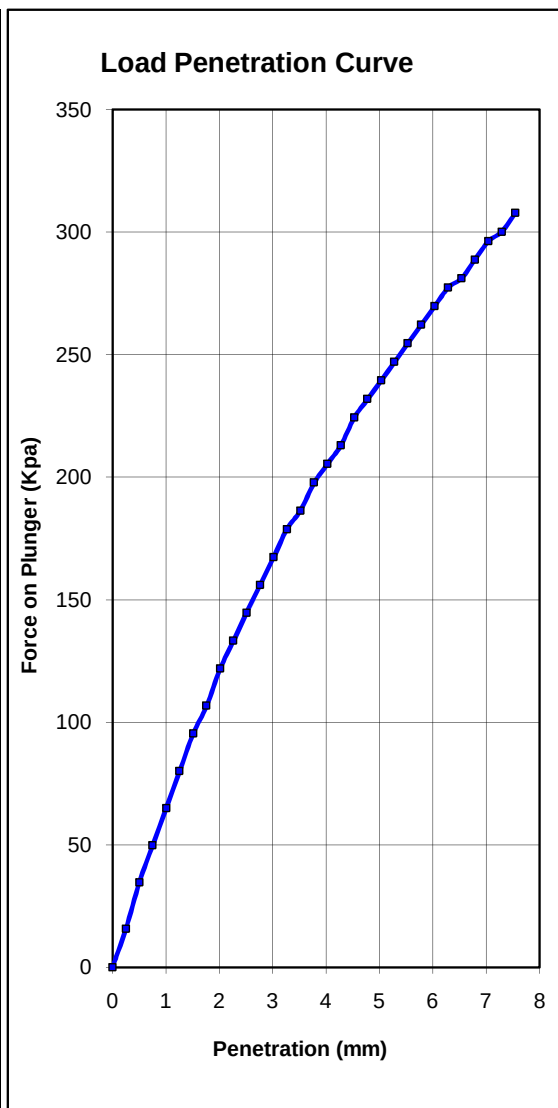


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Pekerjaan : Jalan Tol Palembang - Simpang Indralaya
Lokasi : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau coklat kemerahan
Contoh Tanah : Desa Pering KM 32 Kab. Ogan Ilir

Tanggal : 27 Nopember 2015
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.212	0.195	0.0	0.000	
1	0.24226	0.450	15.6	0.255	
2	0.27896	0.702	34.6	0.507	
3	0.30832	0.950	49.8	0.755	
4	0.33769	1.205	64.9	1.010	
5	0.36705	1.453	80.1	1.258	
6	0.39642	1.708	95.3	1.513	
7	0.41844	1.957	106.7	1.762	
8	0.44781	2.211	121.8	2.016	
9	0.46983	2.460	133.2	2.265	
10	0.49185	2.710	144.6	2.515	2.10
11	0.51387	2.966	156.0	2.771	
12	0.5359	3.215	167.3	3.020	
13	0.55792	3.465	178.7	3.270	
14	0.5726	3.715	186.3	3.520	
15	0.59463	3.971	197.7	3.776	
16	0.60931	4.221	205.3	4.026	
17	0.62399	4.471	212.9	4.276	
18	0.64601	4.724	224.2	4.529	
19	0.6607	4.974	231.8	4.779	
20	0.67538	5.229	239.4	5.034	2.31
21	0.69006	5.477	247.0	5.282	
22	0.70474	5.729	254.6	5.534	
23	0.71942	5.980	262.2	5.785	
24	0.73411	6.230	269.8	6.035	
25	0.74879	6.486	277.3	6.290	
26	0.75613	6.737	281.1	6.542	
27	0.77081	6.985	288.7	6.790	
28	0.78549	7.238	296.3	7.043	
29	0.79284	7.488	300.1	7.293	
30	0.80752	7.738	307.7	7.543	2.35



CBR VALUE

- CBR 2.54 mm = 2.097 %
- CBR 5.08 mm = 2.315 %
Swelling = 2.433 %

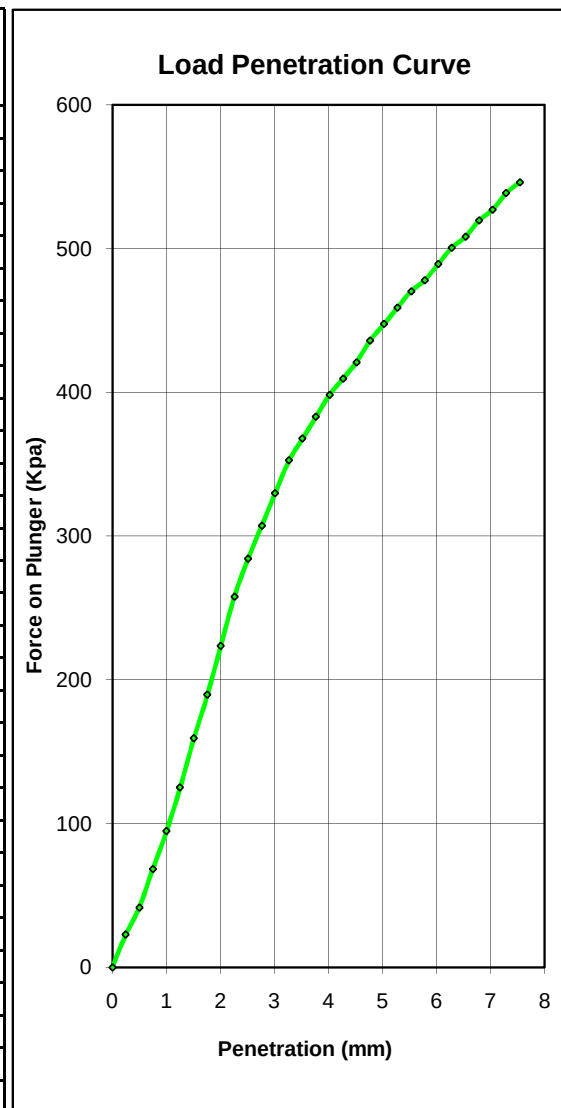


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau coklat kemerahan
Asal Sampel : Desa Permata

Tanggal : 22 Desember 2015
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.095	0.322	0.000	0.000	
1	0.139	0.570	22.757	0.247	
2	0.176	0.820	41.722	0.498	
3	0.228	1.071	68.272	0.749	
4	0.279	1.322	94.823	1.000	
5	0.338	1.574	125.166	1.252	
6	0.404	1.829	159.302	1.507	
7	0.462	2.081	189.646	1.759	
8	0.529	2.329	223.782	2.007	
9	0.595	2.584	257.918	2.262	
10	0.646	2.834	284.468	2.512	4.126
11	0.690	3.087	307.226	2.764	
12	0.734	3.334	329.983	3.012	
13	0.778	3.589	352.741	3.267	
14	0.808	3.842	367.912	3.520	
15	0.837	4.089	383.084	3.767	
16	0.866	4.341	398.256	4.019	
17	0.888	4.596	409.634	4.273	
18	0.910	4.842	421.013	4.520	
19	0.940	5.095	436.185	4.772	
20	0.962	5.350	447.563	5.028	4.328
21	0.984	5.597	458.942	5.275	
22	1.006	5.853	470.321	5.530	
23	1.020	6.104	477.907	5.781	
24	1.042	6.354	489.285	6.031	
25	1.064	6.606	500.664	6.284	
26	1.079	6.858	508.250	6.536	
27	1.101	7.107	519.629	6.785	
28	1.116	7.361	527.215	7.039	
29	1.138	7.613	538.593	7.290	
30	1.153	7.864	546.179	7.541	4.169



CBR VALUE

- CBR 2.54 mm = 4.126 %
- CBR 5.08 mm = 4.328 %
Swelling = 1.167 %

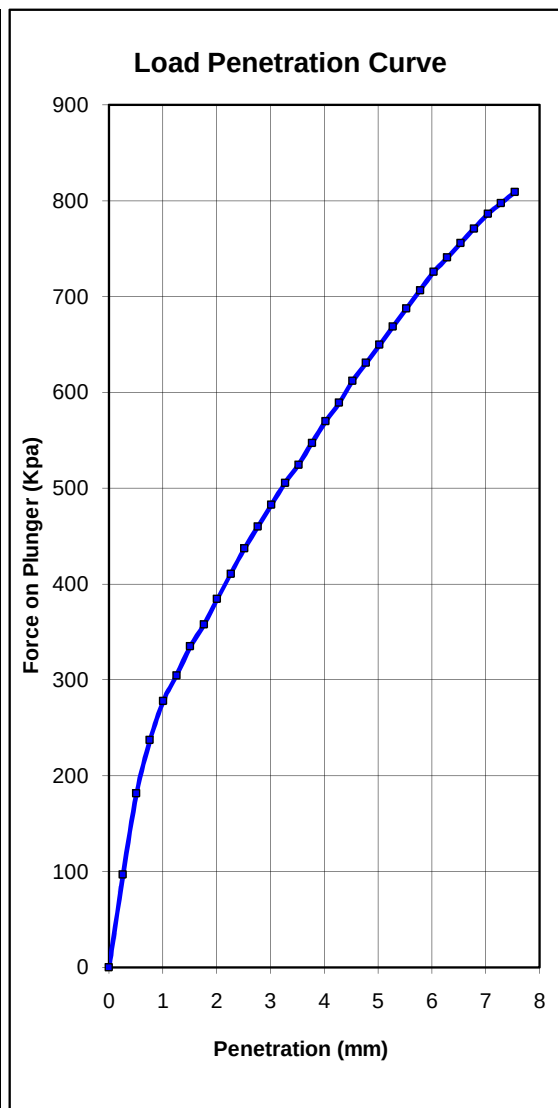


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau merah gelap
Asal Sampel : Pulau Semambu

Tanggal : 11 Januari 2016
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.130	3.913	0.000	0.000	
1	0.317	4.169	96.617	0.255	
2	0.481	4.419	181.350	0.505	
3	0.589	4.672	237.150	0.758	
4	0.668	4.923	277.988	1.009	
5	0.719	5.169	304.538	1.255	
6	0.778	5.421	334.882	1.507	
7	0.822	5.675	357.639	1.762	
8	0.874	5.923	384.190	2.010	
9	0.925	6.177	410.740	2.263	
10	0.976	6.430	437.290	2.516	6.342
11	1.020	6.679	460.048	2.765	
12	1.064	6.929	482.805	3.015	
13	1.109	7.183	505.563	3.270	
14	1.145	7.434	524.527	3.521	
15	1.189	7.685	547.285	3.772	
16	1.233	7.938	570.042	4.024	
17	1.270	8.188	589.007	4.274	
18	1.314	8.437	611.764	4.523	
19	1.351	8.690	630.729	4.777	
20	1.387	8.940	649.693	5.027	6.282
21	1.424	9.189	668.658	5.276	
22	1.461	9.440	687.622	5.527	
23	1.498	9.692	706.587	5.779	
24	1.534	9.946	725.551	6.032	
25	1.564	10.198	740.723	6.284	
26	1.593	10.448	755.895	6.535	
27	1.622	10.697	771.066	6.783	
28	1.652	10.951	786.238	7.038	
29	1.674	11.197	797.617	7.284	
30	1.696	11.452	808.995	7.539	6.176



CBR VALUE

- CBR 2.54 mm = 6.342 %
- CBR 5.08 mm = 6.282 %
Swelling = 1.192 %



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 I BTS. KOTA PALEMBANG - SIMPANG INDRALAYA

Tgl Survei 01-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
01	06 - 07	68	38	57	44	21	8	39	14	28	3	14	N
02	07 - 08	96	52	78	61	18	9	34	16	16	2	24	N
03	08 - 09	84	70	106	83	26	12	48	32	17	4	16	N
04	09 - 10	92	56	86	67	16	11	32	30	14	2	30	N
05	10 - 11	100	65	98	77	16	5	30	18	16	2	16	N
06	11 - 12	86	52	80	63	18	6	32	26	19	4	16	N
07	12 - 13	94	54	82	64	18	10	34	20	14	5	9	N
08	13 - 14	105	59	90	70	16	10	30	22	8	2	13	N
09	14 - 15	123	76	115	90	32	8	60	21	20	2	18	N
10	15 - 16	134	71	108	84	30	8	55	22	16	2	24	N
11	16 - 17	151	60	90	70	28	6	52	20	14	2	14	N
12	17 - 18	98	44	68	52	52	5	96	15	10	2	23	N
13	18 - 19	84	46	70	55	42	14	77	26	12	2	25	N
14	19 - 20	66	42	64	50	32	9	61	22	10	4	23	N
15	20 - 21	42	43	65	50	46	10	88	20	16	5	22	N
16	21 - 22	35	32	47	37	58	4	108	24	10	2	20	N
17	22 - 23	25	29	44	34	49	5	90	16	18	2	14	N
18	23 - 00	20	22	34	26	58	6	110	20	12	2	10	N
19	00 - 01	10	24	35	28	50	7	92	17	10	0	11	N
20	01 - 02	15	15	23	18	66	4	121	14	14	1	13	N
21	02 - 03	24	19	29	22	54	6	102	20	18	0	18	N
22	03 - 04	24	22	33	26	74	6	137	18	12	1	20	N
23	04 - 05	51	24	37	29	68	10	126	30	18	4	22	N
24	05 - 06	95	33	50	40	31	12	56	18	18	2	14	N
25	06 - 07	129	40	60	46	31	9	58	25	22	4	20	N
26	07 - 08	110	53	80	62	28	13	52	30	22	4	25	N
27	08 - 09	106	69	104	82	34	17	62	40	22	4	24	N
28	09 - 10	88	54	81	64	24	18	46	34	15	3	28	N
29	10 - 11	93	60	90	71	28	12	52	23	13	2	22	N
30	11 - 12	90	52	79	62	26	10	48	28	17	2	16	N
31	12 - 13	98	58	88	68	28	10	53	22	16	4	16	N
32	13 - 14	110	62	94	74	27	10	50	23	8	1	18	N
33	14 - 15	132	72	109	85	32	8	60	20	20	2	22	N
34	15 - 16	136	70	106	83	30	10	57	26	13	4	26	N
35	16 - 17	133	51	77	60	24	8	46	17	14	2	20	N
36	17 - 18	96	48	74	58	54	6	100	18	10	2	28	N
37	18 - 19	74	50	75	58	37	12	68	32	12	2	21	N



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 I BTS. KOTA PALEMBANG - SIMPANG INDRALAYA

Tgl Survai 01-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
38	19 - 20	56	37	57	44	30	10	55	22	11	3	14	N
39	20 - 21	39	42	62	48	46	11	84	22	16	6	24	N
40	21 - 22	32	32	48	38	66	4	121	27	18	2	19	N

Sub Total

3.244 1.898 2.873 2.243 1.464 359 2.722 910 609 104 772

01	06 - 07	203	68	103	80	28	8	53	17	15	6	20	O
02	07 - 08	212	74	112	88	23	2	42	20	16	2	24	O
03	08 - 09	134	62	96	74	42	5	78	16	14	5	24	O
04	09 - 10	136	62	94	74	39	6	72	14	13	1	22	O
05	10 - 11	172	62	95	74	41	10	77	27	15	1	28	O
06	11 - 12	148	58	89	70	32	8	59	18	12	4	14	O
07	12 - 13	158	75	114	89	21	12	38	23	15	1	18	O
08	13 - 14	146	84	128	100	24	6	44	30	10	3	18	O
09	14 - 15	162	82	126	98	38	10	72	32	22	2	22	O
10	15 - 16	200	92	140	109	39	10	73	29	17	2	29	O
11	16 - 17	186	76	116	90	36	10	66	26	16	1	28	O
12	17 - 18	83	51	78	60	31	10	58	28	16	5	26	O
13	18 - 19	68	43	66	51	34	6	62	22	15	3	20	O
14	19 - 20	70	45	68	54	32	8	60	26	16	2	26	O
15	20 - 21	60	36	53	42	38	11	72	31	16	2	20	O
16	21 - 22	52	30	46	36	41	10	76	28	13	2	16	O
17	22 - 23	34	25	38	30	53	8	98	26	11	0	15	O
18	23 - 00	22	18	28	22	38	12	71	20	11	2	10	O
19	00 - 01	12	14	20	16	32	4	60	13	13	1	12	O
20	01 - 02	16	17	26	20	44	6	82	14	12	0	8	O
21	02 - 03	22	18	28	21	46	6	86	16	10	0	6	O
22	03 - 04	36	18	28	22	37	5	70	13	10	1	10	O
23	04 - 05	80	36	55	43	35	8	66	21	11	0	18	O
24	05 - 06	198	70	107	84	43	6	79	26	15	0	28	O
25	06 - 07	229	82	124	97	40	8	76	26	14	5	22	O
26	07 - 08	210	86	130	102	38	8	70	20	18	2	22	O
27	08 - 09	146	76	116	90	50	6	92	18	20	3	28	O
28	09 - 10	148	72	110	86	58	10	106	26	16	2	27	O
29	10 - 11	146	63	96	75	58	11	108	31	16	1	26	O
30	11 - 12	152	68	103	80	56	11	105	28	20	2	20	O
31	12 - 13	156	74	113	88	42	12	78	32	17	1	30	O
32	13 - 14	158	85	128	100	42	9	78	34	16	2	29	O



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 I BTS. KOTA PALEMBANG - SIMPANG INDRALAYA

Tgl Survai 01-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
33	14 - 15	153	85	130	102	46	10	86	34	22	4	26	O
34	15 - 16	182	76	116	90	42	9	80	36	19	1	34	O
35	16 - 17	194	69	104	82	41	7	76	28	16	3	30	O
36	17 - 18	86	46	70	54	30	6	56	23	18	4	24	O
37	18 - 19	74	46	71	55	35	9	65	29	24	2	22	O
38	19 - 20	58	47	72	56	38	11	70	32	12	4	23	O
39	20 - 21	50	34	52	40	48	13	88	32	16	2	24	O
40	21 - 22	42	26	39	30	43	8	80	28	16	2	23	O
Sub Total		4.794	2.251	3.428	2.674	1.574	335	2.928	993	614	86	872	
Grand Total (N+O)		8.038	4.149	6.301	4.917	3.038	694	5.650	1.903	1.223	190	1.644	



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 15 K JLN. SRI JAYA RAYA (PALEMBANG)

Tgl Survai 23-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direc tion
01	06 - 07	482	73	111	86	100	83	186	214	11	3	29	N
02	07 - 08	426	63	95	74	112	63	207	308	4	2	26	N
03	08 - 09	223	59	89	70	107	104	200	298	16	4	24	N
04	09 - 10	244	60	91	71	97	76	180	360	10	4	26	N
05	10 - 11	256	54	81	64	96	81	177	268	12	2	26	N
06	11 - 12	279	53	80	62	96	96	180	230	16	3	18	N
07	12 - 13	248	60	90	70	118	103	218	250	9	2	20	N
08	13 - 14	251	58	88	68	132	90	245	270	8	1	28	N
09	14 - 15	314	50	77	60	119	90	220	272	9	4	22	N
10	15 - 16	388	58	88	68	122	96	225	198	8	2	24	N
11	16 - 17	397	59	90	70	102	98	190	192	4	1	20	N
12	17 - 18	272	42	64	50	82	93	151	180	6	2	13	N
13	18 - 19	222	34	52	41	72	85	134	194	4	2	13	N
14	19 - 20	162	30	46	36	68	74	125	222	6	0	6	N
15	20 - 21	110	22	34	26	45	83	84	222	6	0	6	N
16	21 - 22	94	16	25	20	26	58	48	160	4	0	2	N
17	22 - 23	58	13	20	16	20	34	37	134	6	0	1	N
18	23 - 00	30	10	16	12	14	34	25	111	2	0	0	N
19	00 - 01	10	9	14	10	11	32	20	103	4	0	1	N
20	01 - 02	10	8	12	9	12	25	24	128	2	0	1	N
21	02 - 03	16	8	11	9	12	34	22	147	3	0	0	N
22	03 - 04	25	12	18	14	18	38	35	126	0	0	2	N
23	04 - 05	110	25	38	30	40	52	72	204	3	1	6	N
24	05 - 06	343	54	80	63	76	66	142	270	13	3	19	N
25	06 - 07	490	68	104	81	103	84	191	228	11	2	28	N
26	07 - 08	422	61	92	72	112	72	208	279	8	3	26	N
27	08 - 09	274	52	80	62	99	90	185	308	16	4	30	N
28	09 - 10	243	58	88	69	94	78	174	338	9	4	26	N
29	10 - 11	242	48	73	57	86	78	160	298	10	3	28	N
30	11 - 12	245	53	81	63	94	98	174	264	10	4	20	N
31	12 - 13	234	54	82	64	100	96	186	276	11	0	22	N
32	13 - 14	256	54	80	63	105	94	194	294	8	0	30	N
33	14 - 15	278	48	72	56	90	100	166	308	10	2	19	N
34	15 - 16	426	52	78	60	92	93	172	218	9	2	23	N
35	16 - 17	444	55	84	65	88	96	164	180	8	3	22	N
36	17 - 18	319	38	57	44	66	90	122	182	8	2	12	N
37	18 - 19	234	34	50	40	58	86	108	196	7	2	11	N



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 15 K JLN. SRI JAYA RAYA (PALEMBANG)

Tgl Survai 23-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
38	19 - 20	166	26	40	32	58	73	107	216	8	0	6	N
39	20 - 21	106	22	32	26	36	82	68	205	8	0	6	N
40	21 - 22	90	18	27	22	28	74	53	155	6	0	4	N
Sub Total		9.439	1.671	2.530	1.975	3.006	3.072	5.579	9.006	313	67	646	
01	06 - 07	644	54	82	64	39	30	72	40	11	2	14	O
02	07 - 08	451	86	130	101	50	40	92	58	28	9	26	O
03	08 - 09	350	86	130	101	50	25	94	47	16	7	25	O
04	09 - 10	335	86	130	102	53	40	99	42	28	4	31	O
05	10 - 11	344	99	150	118	40	30	76	32	19	7	14	O
06	11 - 12	360	98	148	116	38	26	71	30	11	6	12	O
07	12 - 13	356	84	128	100	36	28	66	17	12	3	12	O
08	13 - 14	373	92	140	109	34	25	62	20	20	6	13	O
09	14 - 15	385	98	149	116	35	25	65	24	18	3	21	O
10	15 - 16	460	90	138	108	40	38	74	22	9	6	18	O
11	16 - 17	486	84	128	100	39	37	72	23	10	3	14	O
12	17 - 18	390	82	124	98	40	26	74	24	10	3	13	O
13	18 - 19	335	68	102	80	35	20	65	38	20	2	6	O
14	19 - 20	224	67	102	80	37	22	69	46	16	1	12	O
15	20 - 21	138	49	74	58	38	17	71	45	17	0	11	O
16	21 - 22	79	52	80	62	41	9	77	42	16	0	9	O
17	22 - 23	43	34	50	40	42	10	78	21	20	1	3	O
18	23 - 00	32	34	52	41	42	9	78	24	10	0	6	O
19	00 - 01	18	26	39	31	48	4	90	18	8	0	7	O
20	01 - 02	22	22	33	26	53	8	98	18	7	1	4	O
21	02 - 03	32	21	32	26	42	4	78	14	8	0	5	O
22	03 - 04	50	26	40	30	44	8	82	34	14	0	3	O
23	04 - 05	138	30	44	34	53	10	98	22	16	0	10	O
24	05 - 06	415	54	81	63	58	23	109	26	14	2	14	O
25	06 - 07	634	59	90	70	40	32	73	38	16	2	16	O
26	07 - 08	432	82	124	97	48	32	88	44	28	8	16	O
27	08 - 09	345	90	136	106	50	28	93	48	16	6	20	O
28	09 - 10	326	89	135	106	56	33	103	38	24	4	22	O
29	10 - 11	324	95	144	112	49	26	92	33	20	5	16	O
30	11 - 12	352	86	131	102	46	26	87	32	20	5	15	O
31	12 - 13	370	88	134	104	46	28	85	24	14	2	16	O
32	13 - 14	336	100	152	118	38	26	71	19	20	5	14	O



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 005 15 K JLN. SRI JAYA RAYA (PALEMBANG)

Tgl Survai 23-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
33	14 - 15	366	104	158	124	44	28	80	24	12	4	22	O
34	15 - 16	418	100	152	118	50	34	91	24	12	8	19	O
35	16 - 17	460	86	130	102	44	34	80	22	12	6	18	O
36	17 - 18	353	81	123	96	42	24	77	24	12	2	10	O
37	18 - 19	290	67	102	79	43	19	80	40	19	3	6	O
38	19 - 20	194	62	94	73	36	16	68	39	16	0	10	O
39	20 - 21	124	50	77	60	41	14	76	37	20	0	8	O
40	21 - 22	76	44	66	52	39	10	73	36	16	1	6	O
Sub Total		11.860	2.805	4.254	3.323	1.739	924	3.227	1.249	635	127	537	
Grand Total (N+O)		21.299	4.476	6.784	5.298	4.745	3.996	8.806	10.255	948	194	1.183	

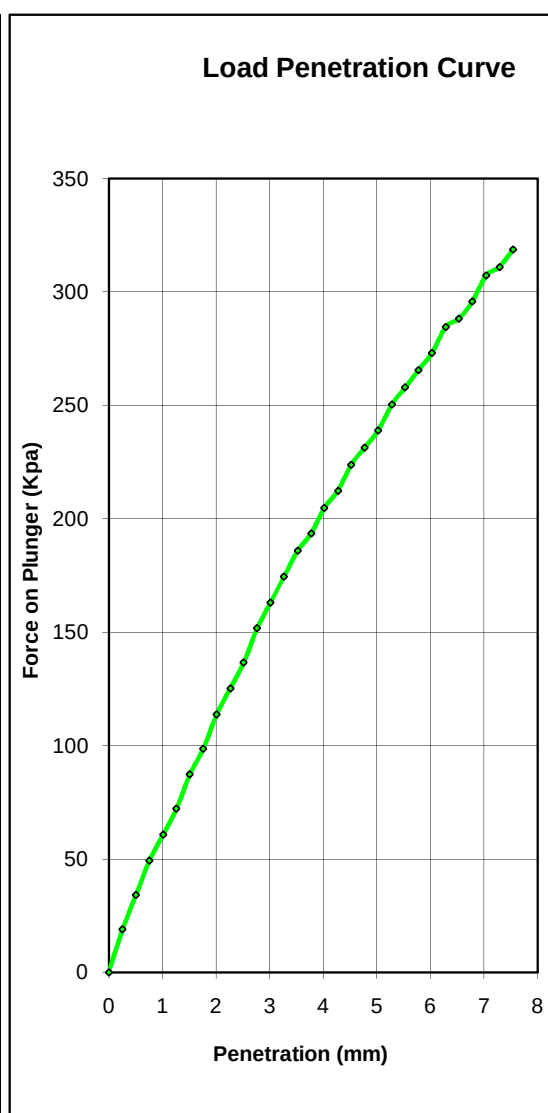


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau merah muda dan putih
Asal Sampel : Pulau Semambu

Tanggal : 22 Desember 2015
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.103	0.336	0.000	0.000	
1	0.139	0.592	18.965	0.255	
2	0.169	0.841	34.136	0.505	
3	0.198	1.091	49.308	0.755	
4	0.220	1.346	60.687	1.010	
5	0.242	1.596	72.065	1.260	
6	0.272	1.844	87.237	1.508	
7	0.294	2.098	98.616	1.762	
8	0.323	2.347	113.787	2.011	
9	0.345	2.602	125.166	2.266	
10	0.367	2.849	136.545	2.513	1.980
11	0.396	3.101	151.716	2.765	
12	0.418	3.351	163.095	3.015	
13	0.440	3.603	174.474	3.267	
14	0.462	3.859	185.853	3.522	
15	0.477	4.109	193.438	3.772	
16	0.499	4.357	204.817	4.021	
17	0.514	4.612	212.403	4.276	
18	0.536	4.860	223.782	4.524	
19	0.551	5.110	231.368	4.774	
20	0.565	5.361	238.953	5.025	2.310
21	0.587	5.616	250.332	5.280	
22	0.602	5.864	257.918	5.528	
23	0.617	6.116	265.504	5.780	
24	0.631	6.366	273.090	6.030	
25	0.653	6.620	284.468	6.284	
26	0.661	6.868	288.261	6.532	
27	0.675	7.119	295.847	6.783	
28	0.697	7.375	307.226	7.039	
29	0.705	7.626	311.019	7.290	
30	0.719	7.875	318.604	7.539	2.432



CBR VALUE

- CBR 2.54 mm = 1.980 %
- CBR 5.08 mm = 2.310 %
Swelling = 1.500 %

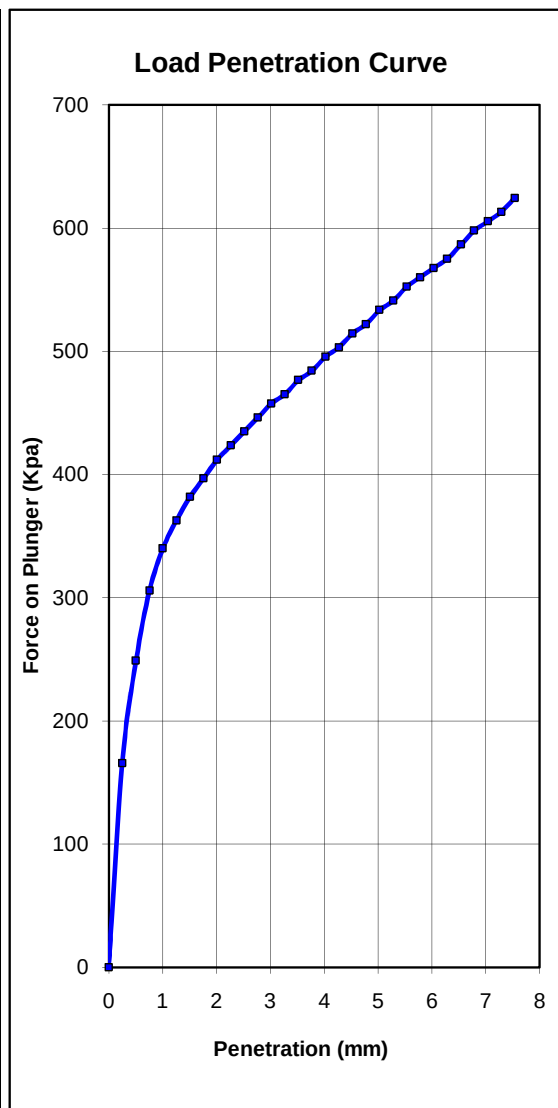


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau kepasiran merah kecoklatan
Asal Sampel : Tanjung Seni

Tanggal : 11 Januari 2016
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.098	0.618	0.000	0.000	
1	0.418	0.869	165.562	0.251	
2	0.580	1.122	249.006	0.504	
3	0.690	1.374	305.900	0.756	
4	0.756	1.623	340.036	1.005	
5	0.800	1.873	362.794	1.255	
6	0.837	2.126	381.758	1.508	
7	0.866	2.379	396.930	1.761	
8	0.896	2.632	412.102	2.014	
9	0.918	2.882	423.480	2.264	
10	0.940	3.134	434.859	2.516	6.307
11	0.962	3.386	446.238	2.768	
12	0.984	3.638	457.617	3.020	
13	0.998	3.889	465.202	3.271	
14	1.020	4.137	476.581	3.519	
15	1.035	4.388	484.167	3.770	
16	1.057	4.643	495.546	4.025	
17	1.072	4.890	503.131	4.272	
18	1.094	5.146	514.510	4.528	
19	1.109	5.394	522.096	4.776	
20	1.131	5.647	533.475	5.029	5.158
21	1.145	5.899	541.061	5.281	
22	1.167	6.151	552.439	5.533	
23	1.182	6.399	560.025	5.780	
24	1.197	6.655	567.611	6.037	
25	1.211	6.902	575.197	6.284	
26	1.233	7.158	586.576	6.540	
27	1.255	7.405	597.954	6.787	
28	1.270	7.658	605.540	7.040	
29	1.285	7.910	613.126	7.292	
30	1.307	8.160	624.505	7.542	4.767



CBR VALUE

- CBR 2.54 mm = 6.307 %
- CBR 5.08 mm = 5.158 %
Swelling = 0.650 %

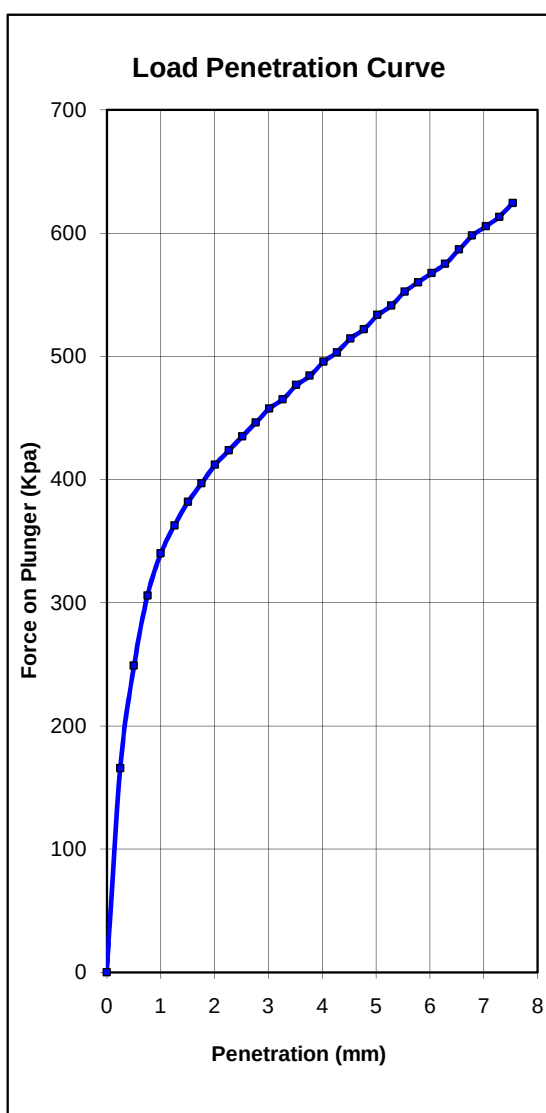


CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau kepasiran merah kecoklatan
Asal Sampel : Tanjung Seni

Tanggal : 11 Januari 2016
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.098	0.618	0.000	0.000	
1	0.418	0.869	165.562	0.251	
2	0.580	1.122	249.006	0.504	
3	0.690	1.374	305.900	0.756	
4	0.756	1.623	340.036	1.005	
5	0.800	1.873	362.794	1.255	
6	0.837	2.126	381.758	1.508	
7	0.866	2.379	396.930	1.761	
8	0.896	2.632	412.102	2.014	
9	0.918	2.882	423.480	2.264	
10	0.940	3.134	434.859	2.516	6.307
11	0.962	3.386	446.238	2.768	
12	0.984	3.638	457.617	3.020	
13	0.998	3.889	465.202	3.271	
14	1.020	4.137	476.581	3.519	
15	1.035	4.388	484.167	3.770	
16	1.057	4.643	495.546	4.025	
17	1.072	4.890	503.131	4.272	
18	1.094	5.146	514.510	4.528	
19	1.109	5.394	522.096	4.776	
20	1.131	5.647	533.475	5.029	5.158
21	1.145	5.899	541.061	5.281	
22	1.167	6.151	552.439	5.533	
23	1.182	6.399	560.025	5.780	
24	1.197	6.655	567.611	6.037	
25	1.211	6.902	575.197	6.284	
26	1.233	7.158	586.576	6.540	
27	1.255	7.405	597.954	6.787	
28	1.270	7.658	605.540	7.040	
29	1.285	7.910	613.126	7.292	
30	1.307	8.160	624.505	7.542	4.767



CBR VALUE

- CBR 2.54 mm = 6.307 %
- CBR 5.08 mm = 5.158 %
Swelling = 0.650 %



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 029 I BTS. KOTA PRABUMULIH - SP. BELIMBING

Tgl Survai 11-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direc tion
01	06 - 07	84	20	30	24	26	2	48	6	4	0	6	N
02	07 - 08	83	25	38	30	32	2	60	4	4	0	6	N
03	08 - 09	86	28	42	33	36	2	68	8	4	0	6	N
04	09 - 10	83	28	42	33	29	2	54	8	8	0	5	N
05	10 - 11	69	36	56	44	23	4	42	4	6	0	7	N
06	11 - 12	72	31	46	36	22	2	42	7	8	0	6	N
07	12 - 13	70	28	43	34	20	0	38	4	8	0	10	N
08	13 - 14	66	38	58	45	20	2	37	4	8	0	4	N
09	14 - 15	70	38	58	46	20	2	36	4	8	0	8	N
10	15 - 16	81	32	50	38	20	2	36	5	7	0	7	N
11	16 - 17	73	26	40	31	26	1	48	8	6	1	10	N
12	17 - 18	34	16	24	19	31	5	58	18	14	2	10	N
13	18 - 19	30	21	32	25	24	4	45	8	4	1	8	N
14	19 - 20	20	16	24	20	17	1	32	2	6	0	2	N
15	20 - 21	24	14	21	17	16	2	28	4	5	0	2	N
16	21 - 22	12	12	18	14	12	4	22	6	8	0	2	N
17	22 - 23	12	12	18	14	18	6	35	8	8	0	4	N
18	23 - 00	10	9	14	10	24	2	45	6	8	0	2	N
19	00 - 01	3	6	9	8	24	1	44	4	12	0	2	N
20	01 - 02	5	4	6	5	18	2	34	3	4	0	2	N
21	02 - 03	6	6	8	6	22	2	42	2	4	0	1	N
22	03 - 04	8	8	12	9	30	2	54	11	7	0	3	N
23	04 - 05	40	19	30	23	51	6	96	9	16	1	10	N
24	05 - 06	78	22	34	26	31	2	58	10	4	1	5	N
25	06 - 07	92	25	38	30	25	2	46	6	4	0	6	N
26	07 - 08	88	28	43	34	38	3	70	4	4	0	6	N
27	08 - 09	87	26	40	32	28	2	53	8	4	0	7	N
28	09 - 10	93	30	46	36	29	4	53	6	8	0	4	N
29	10 - 11	88	35	54	42	26	4	47	4	4	0	6	N
30	11 - 12	65	30	45	35	22	2	41	4	6	0	6	N
31	12 - 13	66	32	48	38	24	0	44	3	8	2	9	N
32	13 - 14	68	34	51	40	22	4	40	3	8	0	5	N
33	14 - 15	63	39	60	46	24	2	44	6	7	0	10	N
34	15 - 16	75	32	50	38	20	2	38	4	8	0	6	N
35	16 - 17	78	28	42	34	29	2	55	8	3	0	11	N
36	17 - 18	34	16	24	19	42	6	76	24	11	2	12	N
37	18 - 19	28	22	34	26	30	4	56	8	7	1	12	N



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 029 I BTS. KOTA PRABUMULIH - SP. BELIMBING

Tgl Survai 11-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
38	19 - 20	26	20	30	24	24	0	44	4	6	0	4	N
39	20 - 21	17	16	24	19	16	2	28	5	9	0	3	N
40	21 - 22	16	12	20	15	15	4	28	10	8	0	4	N

Sub Total

2.103 920 1.402 1.098 1.006 103 1.865 260 276 11 239

01	06 - 07	137	30	46	36	16	0	28	1	2	0	3	O
02	07 - 08	115	26	40	31	15	1	28	2	2	0	4	O
03	08 - 09	114	32	49	38	16	2	28	1	7	2	5	O
04	09 - 10	115	24	36	28	16	0	29	4	8	1	2	O
05	10 - 11	121	35	54	42	18	4	33	3	6	0	6	O
06	11 - 12	114	32	48	37	18	2	34	4	2	0	8	O
07	12 - 13	100	30	46	36	20	2	36	5	9	1	4	O
08	13 - 14	100	29	44	34	17	2	32	6	6	0	8	O
09	14 - 15	123	28	42	32	19	3	35	6	6	0	3	O
10	15 - 16	135	24	36	28	22	0	40	8	6	0	6	O
11	16 - 17	115	22	32	25	28	4	52	4	8	0	10	O
12	17 - 18	56	11	16	13	52	2	96	4	8	0	10	O
13	18 - 19	68	12	19	15	38	2	70	6	6	0	7	O
14	19 - 20	42	13	20	16	29	4	54	0	4	0	4	O
15	20 - 21	20	9	14	11	24	2	44	6	7	0	2	O
16	21 - 22	14	8	13	10	33	1	62	4	2	0	4	O
17	22 - 23	6	6	8	6	30	1	54	1	2	0	2	O
18	23 - 00	8	10	16	12	21	2	38	4	7	0	1	O
19	00 - 01	4	6	10	8	20	0	37	6	4	0	2	O
20	01 - 02	4	4	6	5	20	2	38	12	6	0	2	O
21	02 - 03	10	4	7	5	13	3	24	3	7	0	3	O
22	03 - 04	38	6	8	6	28	7	53	8	7	0	2	O
23	04 - 05	74	10	14	11	18	8	34	4	8	0	2	O
24	05 - 06	140	23	36	28	16	2	28	2	4	0	4	O
25	06 - 07	150	32	50	38	14	0	26	2	2	1	2	O
26	07 - 08	124	26	40	31	14	3	26	2	2	0	4	O
27	08 - 09	123	30	45	35	18	2	32	1	5	0	6	O
28	09 - 10	114	18	28	22	17	0	32	2	5	0	4	O
29	10 - 11	138	35	53	42	19	5	34	4	8	0	8	O
30	11 - 12	124	32	48	38	20	2	37	4	3	0	6	O
31	12 - 13	99	26	41	32	20	2	36	6	6	1	5	O
32	13 - 14	98	28	42	33	21	4	40	4	6	0	6	O



DATA ROUTINE TRAFFIC COUNTING (RTC) VERSI BINA MARGA

PROVINSI SUMSEL

RUAS 029 I BTS. KOTA PRABUMULIH - SP. BELIMBING

Tgl Survai 11-Jun-15

Jam Ke	Jam Dari	Gol 1	Gol 2	Gol 3	Gol 4	Gol 5A	Gol 5B	Gol 6A	Gol 6B	Gol 7A	Gol 7B	Gol 7C	Direction
33	14 - 15	118	30	46	36	18	2	34	6	8	0	3	O
34	15 - 16	139	30	44	34	26	3	46	10	8	0	7	O
35	16 - 17	109	20	30	24	24	3	44	8	7	0	10	O
36	17 - 18	51	12	17	14	50	2	92	3	5	0	10	O
37	18 - 19	56	11	17	14	38	1	70	14	8	0	10	O
38	19 - 20	42	12	18	14	30	4	57	1	4	0	5	O
39	20 - 21	23	10	14	12	36	0	67	0	4	0	4	O
40	21 - 22	18	9	14	10	53	0	98	4	7	0	10	O
Sub Total		3.299	795	1.207	942	965	89	1.778	175	222	6	204	
Grand Total (N+O)		5.402	1.715	2.609	2.040	1.971	192	3.643	435	498	17	443	

JANUARI 2016

HARGA SATUAN DASAR UPAH DAN BAHAN
DINAS PU BINA MARGA PROVINSI SUMATERA SELATAN
TAHUN ANGGARAN 2016



PEMERINTAH PROVINSI SUMATERA SELATAN
DINAS PEKERJAAN UMUM BINA MARGA

KOTA PALEMBANG

NO	URAIAN	SATUAN	KOTA PALEMBANG		KETERANGAN
			1	2	
1	URAIAN		1	2	
2	URAIAN		3	4	
3	URAIAN		5	6	
4	URAIAN		7	8	
5	URAIAN		9	10	
6	URAIAN		11	12	
7	URAIAN		13	14	
8	URAIAN		15	16	
9	URAIAN		17	18	
10	URAIAN		19	20	
11	URAIAN		21	22	
12	URAIAN		23	24	
13	URAIAN		25	26	
14	URAIAN		27	28	
15	URAIAN		29	30	
16	URAIAN		31	32	
17	URAIAN		33	34	
18	URAIAN		35	36	
19	URAIAN		37	38	
20	URAIAN		39	40	
21	URAIAN		41	42	
22	URAIAN		43	44	
23	URAIAN		45	46	
24	URAIAN		47	48	
25	URAIAN		49	50	
26	URAIAN		51	52	
27	URAIAN		53	54	
28	URAIAN		55	56	
29	URAIAN		57	58	
30	URAIAN		59	60	
31	URAIAN		61	62	
32	URAIAN		63	64	
33	URAIAN		65	66	
34	URAIAN		67	68	
35	URAIAN		69	70	
36	URAIAN		71	72	
37	URAIAN		73	74	
38	URAIAN		75	76	
39	URAIAN		77	78	
40	URAIAN		79	80	
41	URAIAN		81	82	
42	URAIAN		83	84	
43	URAIAN		85	86	
44	URAIAN		87	88	
45	URAIAN		89	90	
46	URAIAN		91	92	
47	URAIAN		93	94	
48	URAIAN		95	96	
49	URAIAN		97	98	
50	URAIAN		99	100	

Pelaksana Dinas PU Bina Marga
Provinsi Sumatera Selatan

RENTAROL ST
Pembina/IV.a

NIP. 19590301 198003 1 004

Catatan :
- Harga merupakan Harga Maksimum dan Belum Termasuk Pajak.
- Apabila Terjadi Perubahan Harga agar disesuaikan dengan harga resmi dari Pemerintah / Pabrik

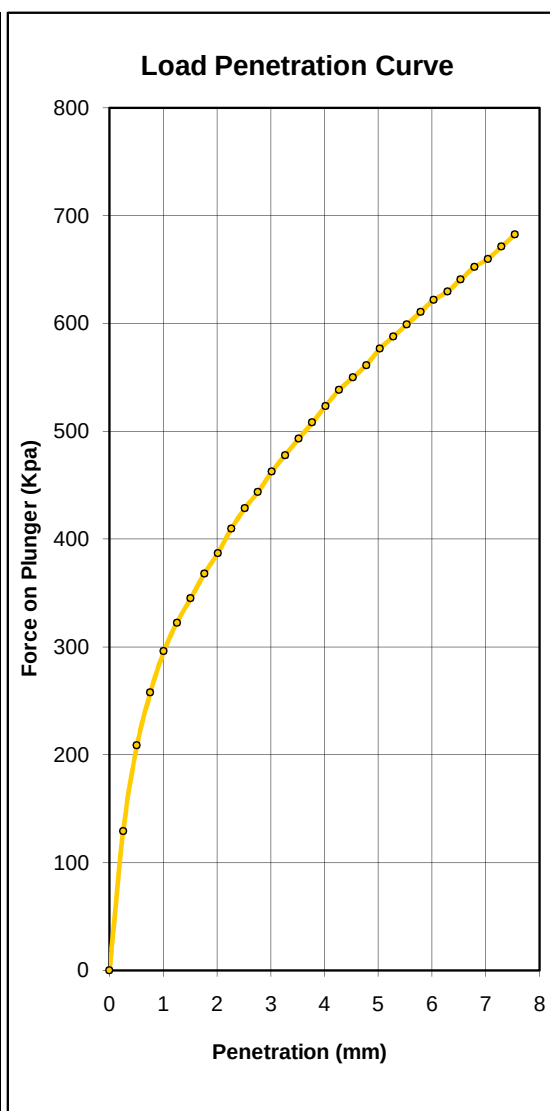


**CALIFORNIA BEARING RATIO (CBR) SOAKED
ASTM D 1883 - 87**

Proyek : Jalan Tol Palembang - Simpang Indralaya
Kontraktor : PT. Utama Karya Infrastruktur
Lokasi : Tol Palembang - Simpang Indralaya
Jenis tanah : Lanau kepasiran kuning kecoklatan
Asal Sampel : Desa Menten

Tanggal : 11 Januari 2016
Dikerjakan : Andi Herius, ST.MT.
Diperiksa : Bastoni Hassasi, ST.M.Eng.

Read Number	Load (kN)	Disp. (mm)	Force on Plunger (kPa)	Penetration (mm)	CBR %
0	0.272	0.491	0.000	0.000	
1	0.521	0.744	128.959	0.254	
2	0.675	0.998	208.610	0.507	
3	0.771	1.249	257.918	0.758	
4	0.844	1.500	295.847	1.009	
5	0.896	1.747	322.397	1.256	
6	0.940	2.002	345.155	1.511	
7	0.984	2.253	367.912	1.763	
8	1.020	2.503	386.877	2.013	
9	1.064	2.754	409.634	2.263	
10	1.101	3.004	428.599	2.513	6.216
11	1.131	3.253	443.771	2.763	
12	1.167	3.509	462.735	3.018	
13	1.197	3.756	477.907	3.265	
14	1.226	4.009	493.078	3.518	
15	1.255	4.262	508.250	3.772	
16	1.285	4.509	523.422	4.018	
17	1.314	4.763	538.593	4.272	
18	1.336	5.016	549.972	4.525	
19	1.358	5.266	561.351	4.775	
20	1.387	5.518	576.522	5.027	5.574
21	1.409	5.772	587.901	5.281	
22	1.432	6.023	599.280	5.532	
23	1.454	6.277	610.659	5.786	
24	1.476	6.524	622.037	6.033	
25	1.490	6.779	629.623	6.288	
26	1.512	7.025	641.002	6.534	
27	1.534	7.278	652.381	6.788	
28	1.549	7.529	659.966	7.039	
29	1.571	7.783	671.345	7.292	
30	1.593	8.035	682.724	7.544	5.212



CBR VALUE

- CBR 2.54 mm = 6.216 %
- CBR 5.08 mm = 5.574 %
Swelling = 2.325 %