

## LAMPIRAN I

### DATA BENDA UJI

Tabel 1 Data defleksi (mm) hasil analisis bentang 4 m

Panjang bentang (cm)	T1	T3	T5	T7
0	0	0	0	0
85	-0.536	-0.618	-0.553	-0.593
170	-1.072	-1.236	-1.107	-1.186
255	-1.609	-1.856	-1.661	-1.781
340	-2.147	-2.476	-2.216	-2.375
425	-2.684	-3.095	-2.771	-2.969
510	-3.22	-3.745	-3.324	-3.595
632.5	-4.023	-4.681	-4.156	-4.497
755	-4.813	-5.599	-4.973	-5.382
877.5	-5.585	-6.502	-5.773	-6.257
1000	-6.333	-7.384	-6.55	-7.111
1122.5	-7.057	-8.238	-7.304	-7.937
1245	-7.756	-9.058	-8.033	-8.729
1367.5	-8.422	-9.837	-8.731	-9.484
1490	-9.052	-10.576	-9.395	-10.202
1575	-9.455	-11.05	-9.82	-10.663
1660	-9.816	-11.476	-10.201	-11.073
1745	-10.134	-11.853	-10.535	-11.432
1830	-10.392	-12.162	-10.802	-11.725
1915	-10.565	-12.371	-10.979	-11.922
2000	-10.627	-12.447	-11.042	-11.993
2000	-10.627	-12.447	-11.042	-11.993
2000	-10.627	-12.447	-11.042	-11.993
2000	-10.627	-12.447	-11.042	-11.993
2000	-10.627	-12.447	-11.042	-11.993

Tabel 2 Data defleksi (mm) hasil analisis bentang 4 m

Panjang bentang (cm)	T9	T11	T13	T15
0	0	0	0	0
85	-0.524	-0.61	-0.536	-0.578
170	-1.048	-1.22	-1.073	-1.157
255	-1.581	-1.832	-1.61	-1.737
340	-2.129	-2.443	-2.147	-2.317
425	-2.683	-3.053	-2.683	-2.896
510	-3.213	-3.704	-3.218	-3.497
632.5	-3.973	-4.616	-4.002	-4.368
755	-4.738	-5.51	-4.787	-5.222
877.5	-5.486	-6.383	-5.555	-6.058
1000	-6.212	-7.239	-6.303	-6.877
1122.5	-6.911	-8.067	-7.023	-7.67
1245	-7.583	-8.861	-7.72	-8.428
1367.5	-8.225	-9.616	-8.386	-9.149
1490	-8.83	-10.329	-9.017	-9.832
1575	-9.216	-10.785	-9.419	-10.27
1660	-9.562	-11.196	-9.78	-10.66
1745	-9.867	-11.56	-10.098	-11.001
1830	-10.116	-11.861	-10.355	-11.282
1915	-10.284	-12.067	-10.528	-11.472
2000	-10.345	-12.141	-10.589	-11.541
2000	-10.345	-12.141	-10.589	-11.541
2000	-10.345	-12.141	-10.589	-11.541
2000	-10.345	-12.141	-10.589	-11.541
2000	-10.345	-12.141	-10.589	-11.541

Tabel 3 Data defleksi (mm) hasil analisis bentang 4 m

Panjang bentang (cm)	P1	P3	P5	P7
0	0	0	0	0
85	-0.772	-0.699	-0.91	-0.701
170	-1.545	-1.399	-1.82	-1.403
255	-2.318	-2.099	-2.73	-2.105
340	-3.09	-2.799	-3.64	-2.808
425	-3.862	-3.498	-4.55	-3.509
510	-4.632	-4.227	-5.457	-4.242
632.5	-5.777	-5.276	-6.803	-5.297
755	-6.906	-6.306	-8.133	-6.334
877.5	-8.014	-7.314	-9.442	-7.354
1000	-9.096	-8.302	-10.725	-8.353
1122.5	-10.15	-9.261	-11.984	-9.324
1245	-11.174	-10.183	-13.213	-10.258
1367.5	-12.162	-11.061	-14.407	-11.151
1490	-13.108	-11.896	-15.561	-12.003
1575	-13.727	-12.434	-16.354	-12.552
1660	-14.302	-12.922	-17.062	-13.047
1745	-14.81	-13.344	-17.657	-13.472
1830	-15.218	-13.675	-18.115	-13.804
1915	-15.488	-13.891	-18.407	-14.019
2000	-15.585	-13.968	-18.509	-14.095
2000	-15.585	-13.968	-18.509	-14.095
2000	-15.585	-13.968	-18.509	-14.095
2000	-15.585	-13.968	-18.509	-14.095
2000	-15.585	-13.968	-18.509	-14.095

Tabel 4 Data defleksi (mm) hasil analisis bentang 4 m

Panjang bentang (cm)	P9	P11	P13	P15
0	0	0	0	0
56.67	-0.565	-0.572	-0.578	-0.674
113.33	-1.13	-1.144	-1.156	-1.348
170	-1.695	-1.717	-1.734	-2.022
226.67	-2.26	-2.289	-2.312	-2.696
283.33	-2.825	-2.862	-2.89	-3.369
340	-3.389	-3.434	-3.467	-4.042
505	-5.022	-5.119	-5.138	-5.992
670	-6.628	-6.768	-6.782	-7.915
835	-8.212	-8.352	-8.406	-9.82
1000	-9.73	-9.846	-9.964	-11.659
1165	-11.151	-11.233	-11.426	-13.405
1330	-12.463	-12.495	-12.779	-15.044
1495	-13.645	-13.608	-14.002	-16.557
1660	-14.678	-14.549	-15.078	-17.928
1716.67	-14.991	-14.824	-15.407	-18.346
1773.33	-15.274	-15.063	-15.708	-18.711
1830	-15.519	-15.266	-15.965	-19.013
1886.67	-15.712	-15.425	-16.165	-19.241
1943.33	-15.839	-15.528	-16.295	-19.385
2000	-15.883	-15.565	-16.341	-19.435
2000	-15.883	-15.565	-16.341	-19.435
2000	-15.883	-15.565	-16.341	-19.385
2000	-15.883	-15.565	-16.341	-19.435
2000	-15.883	-15.565	-16.341	-19.435

Tabel 5 Data defleksi (mm) hasil analisis bentang 5 m

Panjang bentang (cm)	T2	T4	T6	T8
0	0	0	0	0
85	-0.651	-0.754	-0.67	-0.779
170	-1.303	-1.508	-1.341	-1.559
255	-1.954	-2.263	-2.012	-2.34
340	-2.606	-3.018	-2.684	-3.121
425	-3.259	-3.773	-3.356	-3.901
510	-3.91	-4.527	-4.026	-4.681
695	-5.318	-6.206	-5.476	-6.42
880	-6.726	-7.856	-6.933	-8.129
1065	-8.118	-9.459	-8.368	-9.791
1250	-9.459	-11.005	-9.752	-11.397
1435	-10.739	-12.486	-11.076	-12.942
1620	-11.946	-13.887	-12.327	-14.408
1805	-13.069	-15.19	-13.496	-15.777
1990	-14.099	-16.385	-14.575	-17.042
2075	-14.528	-16.886	-15.025	-17.582
2160	-14.915	-17.341	-15.432	-18.072
2245	-15.251	-17.74	-15.782	-18.496
2330	-15.517	-18.058	-16.054	-18.829
2415	-15.691	-18.269	-16.231	-19.047
2500	-15.752	-18.344	-16.294	-19.124
2500	-15.752	-18.344	-16.294	-19.124
2500	-15.752	-18.344	-16.294	-19.124
2500	-15.752	-18.344	-16.294	-19.124
2500	-15.752	-18.344	-16.294	-19.124

Tabel 6 Data defleksi (mm) hasil analisis bentang 5 m

Panjang bentang (cm)	T10	T12	T14	T16
0	0	0	0	0
85	-0.636	-0.742	-0.651	-0.768
170	-1.271	-1.484	-1.302	-1.537
255	-1.908	-2.226	-1.952	-2.307
340	-2.557	-2.969	-2.603	-3.076
425	-3.217	-3.711	-3.254	-3.845
510	-3.881	-4.452	-3.903	-4.613
695	-5.266	-6.082	-5.309	-6.282
880	-6.618	-7.698	-6.696	-7.961
1065	-7.969	-9.267	-8.085	-9.595
1250	-9.273	-10.779	-9.426	-11.172
1435	-10.512	-12.224	-10.703	-12.685
1620	-11.681	-13.59	-11.911	-14.119
1805	-12.766	-14.858	-13.036	-15.456
1990	-13.757	-16.018	-14.07	-16.687
2075	-14.168	-16.502	-14.499	-17.212
2160	-14.539	-16.943	-14.889	-17.69
2245	-14.864	-17.332	-15.225	-18.105
2330	-15.122	-17.644	-15.491	-18.433
2415	-15.293	-17.852	-15.664	-18.647
2500	-15.353	-17.926	-15.725	-18.723
2500	-15.353	-17.926	-15.725	-18.723
2500	-15.353	-17.926	-15.725	-18.723
2500	-15.353	-17.926	-15.725	-18.723
2500	-15.353	-17.926	-15.725	-18.723

Tabel 7 Data defleksi (mm) hasil analisis *Response-2000* bentang 5 m

Panjang bentang (cm)	P2	P4	P6	P8
0	0	0	0	0
85	-0.946	-0.856	-0.901	-0.862
170	-1.893	-1.712	-1.803	-1.725
255	-2.839	-2.569	-2.704	-2.588
340	-3.785	-3.425	-3.605	-3.451
425	-4.731	-4.281	-4.506	-4.313
510	-5.676	-5.136	-5.406	-5.175
695	-7.72	-7.031	-7.352	-7.087
880	-9.777	-8.897	-9.312	-8.97
1065	-11.797	-10.713	-11.237	-10.804
1250	-13.757	-12.466	-13.104	-12.575
1435	-15.643	-14.143	-14.898	-14.275
1620	-17.448	-15.737	-16.612	-15.892
1805	-19.161	-17.228	-18.237	-17.407
1990	-20.765	-18.604	-19.759	-18.809
2075	-21.456	-19.184	-20.419	-19.399
2160	-22.085	-19.702	-21.016	-19.923
2245	-22.625	-20.139	-21.525	-20.363
2330	-23.047	-20.476	-21.919	-20.7
2415	-23.32	-20.692	-22.174	-20.915
2500	-23.416	-20.767	-22.263	-20.99
2500	-23.416	-20.767	-22.263	-20.99
2500	-23.416	-20.767	-22.263	-20.99
2500	-23.416	-20.767	-22.263	-20.99
2500	-23.416	-20.767	-22.263	-20.99

Tabel 8 Data defleksi (mm) hasil analisis bentang 5 m

Panjang bentang (cm)	P10	P12	P14	P16
0	0	0	0	0
56.67	-0.696	-0.703	-0.713	-0.807
113.33	-1.393	-1.405	-1.426	-1.615
170	-2.09	-2.108	-2.139	-2.423
226.67	-2.786	-2.811	-2.852	-3.23
283.33	-3.482	-3.514	-3.564	-4.037
340	-4.178	-4.216	-4.276	-4.844
567.5	-6.956	-7.007	-7.12	-8.067
795	-9.684	-9.766	-9.914	-11.241
1022.5	-12.346	-12.415	-12.643	-14.355
1250	-14.892	-14.898	-15.257	-17.352
1477.5	-17.259	-17.171	-17.693	-20.174
1705	-19.405	-19.188	-19.908	-22.782
1932.5	-21.287	-20.91	-21.86	-25.131
2160	-22.866	-22.289	-23.509	-27.185
2216.67	-23.205	-22.57	-23.869	-27.624
2273.33	-23.508	-22.817	-24.187	-28.002
2330	-23.764	-23.025	-24.454	-28.31
2386.67	-23.962	-23.185	-24.657	-28.54
2443.33	-24.089	-23.287	-24.787	-28.684
2500	-24.134	-23.323	-24.832	-28.733
2500	-24.134	-23.323	-24.832	-28.733
2500	-24.134	-23.323	-24.832	-28.733
2500	-24.134	-23.323	-24.832	-28.733
2500	-24.134	-23.323	-24.832	-28.733



Tabel 9 Data hubungan beban (kN) dan defleksi (mm) bentang 4 m

T1		T3		T5		T7	
Beban	defleksi	beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
7.914	0.089	10.517	0.115	7.945	0.089	10.416	0.113
15.828	0.178	21.034	0.229	15.891	0.179	20.833	0.227
23.742	0.267	31.552	0.353	23.836	0.268	31.249	0.349
31.656	0.375	42.069	0.557	31.782	0.377	41.666	0.548
39.57	0.547	52.586	0.811	39.727	0.55	52.082	0.796
47.484	0.758	63.103	1.147	47.673	0.763	62.499	1.127
55.397	1.047	73.62	1.523	55.618	1.054	72.915	1.497
63.311	1.385	84.138	1.921	63.564	1.393	83.331	1.889
71.225	1.752	94.655	2.369	71.509	1.762	93.748	2.329
79.139	2.139	105.172	2.898	79.455	2.15	104.164	2.842
87.053	2.607	115.689	3.435	87.4	2.623	114.581	3.397
94.967	3.096	126.207	3.981	95.346	3.118	124.997	3.944
102.881	3.605	136.724	4.525	103.291	3.639	135.414	4.49
110.795	4.117	147.241	5.061	111.237	4.157	145.83	5.018
118.709	4.632	157.758	5.6	119.182	4.674	156.246	5.569
126.623	5.168	168.275	6.194	127.128	5.226	166.663	6.174
134.537	5.729	178.793	6.788	135.073	5.792	177.079	6.769
142.451	6.326	189.31	7.444	143.019	6.41	187.496	7.439
150.364	7.847	199.827	8.888	150.964	8.013	197.912	8.7
158.278	10.627	210.344	12.447	158.909	11.042	208.328	11.993

Tabel 10 Data hubungan beban (kN) dan defleksi (mm) bentang 4 m

T9		T11		T13		T15	
beban	defleksi	beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
7.91	0.087	10.544	0.113	7.917	0.088	10.433	0.111
15.821	0.175	21.089	0.225	15.833	0.175	20.866	0.223
23.731	0.262	31.633	0.345	23.75	0.263	31.299	0.34
31.642	0.397	42.178	0.545	31.667	0.363	41.732	0.536
39.552	0.625	52.722	0.795	39.583	0.527	52.165	0.78
47.463	0.881	63.266	1.119	47.5	0.729	62.598	1.098
55.373	1.155	73.811	1.481	55.417	1.001	73.03	1.453
63.284	1.477	84.355	1.868	63.333	1.324	83.463	1.835
71.194	1.824	94.899	2.291	71.25	1.679	93.896	2.242
79.105	2.195	105.444	2.793	79.167	2.055	104.329	2.748
87.015	2.603	115.988	3.307	87.083	2.472	114.762	3.261
94.926	3.099	126.533	3.833	95	2.988	125.195	3.788
102.836	3.589	137.077	4.364	102.917	3.485	135.628	4.32
110.747	4.084	147.621	4.901	110.833	3.992	146.061	4.857
118.657	4.564	158.166	5.474	118.75	4.496	156.494	5.383
126.568	5.07	168.71	5.981	126.667	5.003	166.927	5.944
134.478	5.646	179.254	6.634	134.584	5.596	177.36	6.551
158.21	10.345	210.888	12.141	158.334	10.589	208.659	11.541
150.299	10.862	200.343	12.748	150.417	11.119	198.226	12.118

Tabel 11 Data hubungan beban (kN) dan defleksi (mm) bentang 4 m

P1		P3		P5		P7	
Beban	defleksi	beban	defleksi	beban	defleksi	Beban	Defleksi
0	0	0	0	0	0	0	0
8.183	0.108	10.336	0.131	8.183	0.107	10.299	0.131
16.365	0.216	20.671	0.262	16.365	0.214	20.599	0.261
24.548	0.325	31.007	0.415	24.548	0.321	30.898	0.413
32.731	0.48	41.342	0.626	32.731	0.473	41.198	0.623
40.913	0.673	51.678	0.912	40.913	0.662	51.497	0.907
49.096	0.96	62.014	1.274	49.096	0.939	61.797	1.266
57.279	1.311	72.349	1.667	57.279	1.285	72.096	1.658
65.461	1.698	82.685	2.085	65.461	1.665	82.395	2.074
73.644	2.112	93.02	2.539	73.644	2.072	92.695	2.527
81.827	2.549	103.356	3.073	81.827	2.5	102.994	3.065
90.009	3.081	113.691	3.632	90.009	3.024	113.294	3.629
98.192	3.635	124.027	4.187	98.192	3.58	123.593	4.188
106.375	4.182	134.363	4.75	106.375	4.127	133.893	4.756
114.557	4.736	144.698	5.299	114.557	4.681	144.192	5.312
122.74	5.297	155.034	5.859	122.74	5.24	154.491	5.874
130.922	5.877	165.369	6.462	130.922	5.814	164.791	6.493
139.105	6.513	175.705	7.053	139.105	6.448	175.09	7.1
163.653	15.585	206.712	13.968	163.653	14.905	205.989	14.095
155.47	16.364	196.376	14.666	155.47	15.651	195.689	14.8

Tabel 12 Data hubungan beban (kN) dan defleksi (mm) bentang 4 m

P9		P11		T13		P15	
beban	Defleksi	beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
3.882	0.169	6.027	0.247	3.882	0.169	3.925	0.169
7.764	0.337	12.053	0.497	7.764	0.337	7.85	0.338
11.645	0.513	18.08	0.85	11.645	0.513	11.775	0.514
15.527	0.774	24.107	1.307	15.527	0.774	15.7	0.773
19.409	1.096	30.133	1.889	19.409	1.096	19.625	1.09
23.291	1.565	36.16	2.518	23.291	1.565	23.549	1.548
27.173	2.109	42.187	3.182	27.173	2.109	27.474	2.08
31.054	2.705	48.213	3.864	31.054	2.705	31.399	2.661
34.936	3.332	54.24	4.574	34.936	3.333	35.324	3.272
38.818	3.982	60.267	5.345	38.818	3.982	39.249	3.903
42.7	4.659	66.293	6.133	42.7	4.661	43.174	4.575
46.582	5.39	72.32	6.932	46.582	5.395	47.099	5.295
50.463	6.143	78.347	7.734	50.463	6.152	51.024	6.037
54.345	6.908	84.373	8.539	54.345	6.923	54.949	6.787
58.227	7.662	90.4	9.348	58.227	7.68	58.874	7.526
62.109	8.463	96.427	10.165	62.109	8.486	62.798	8.327
65.991	9.271	102.453	10.976	65.991	9.3	66.723	9.113
69.872	10.135	108.48	11.816	69.872	10.172	70.648	10.51
73.754	11.984	114.507	12.935	73.754	12.05	74.573	13.741
77.636	15.883	120.533	15.565	77.636	16.341	78.498	19.435

Tabel 13 Data hubungan beban (kN) dan defleksi (mm) bentang 5 m

T2		T4		T6		T8	
Beban	defleksi	beban	Defleksi	beban	defleksi	Beban	Defleksi
0	0	0	0	0	0	0	0
6.331	0.137	8.414	0.176	6.356	0.137	8.416	0.176
12.662	0.274	16.828	0.351	12.713	0.275	16.833	0.351
18.993	0.41	25.241	0.54	19.069	0.412	25.249	0.54
25.325	0.573	33.655	0.849	25.425	0.577	33.665	0.85
31.656	0.834	42.069	1.238	31.782	0.84	42.081	1.238
37.987	1.157	50.483	1.753	38.138	1.165	50.498	1.754
44.318	1.599	58.896	2.325	44.495	1.61	58.914	2.326
50.649	2.118	67.31	2.93	50.851	2.131	67.33	2.93
56.98	2.679	75.724	3.567	57.207	2.694	75.747	3.57
63.311	3.267	84.138	4.301	63.564	3.284	84.163	4.311
69.642	3.92	92.551	5.058	69.92	3.942	92.579	5.073
101.298	7.604	134.62	8.936	101.702	7.664	134.66	8.99
107.629	8.378	143.034	9.812	108.058	8.44	143.077	9.888
113.96	9.251	151.448	10.706	114.415	9.333	151.493	10.807
120.291	11.477	159.861	12.951	120.771	11.634	159.909	13.161
126.623	15.752	168.275	18.344	127.127	16.294	168.326	19.124
120.291	16.54	159.861	19.261	120.771	17.108	159.909	20.08

Tabel 14 Data hubungan beban (kN) dan defleksi (mm) bentang 5 m

T10		T12		T14		T16	
beban	defleksi	beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
6.328	0.135	8.435	0.173	6.333	0.135	8.435	0.173
12.657	0.269	16.871	0.346	12.667	0.269	16.871	0.346
18.985	0.404	25.306	0.53	19	0.404	25.306	0.53
25.314	0.593	33.742	0.834	25.333	0.558	33.742	0.834
31.642	0.911	42.177	1.217	31.667	0.81	42.177	1.217
37.97	1.277	50.613	1.715	38	1.121	50.613	1.715
44.299	1.691	59.048	2.268	44.333	1.539	59.048	2.268
50.627	2.189	67.484	2.86	50.667	2.034	67.484	2.86
56.955	2.733	75.919	3.48	57	2.577	75.919	3.48
63.284	3.301	84.355	4.183	63.333	3.152	84.355	4.189
69.612	3.901	92.79	4.927	69.667	3.757	92.79	4.939
75.941	4.586	101.226	5.695	76	4.445	101.226	5.715
82.269	5.285	109.661	6.445	82.333	5.161	109.661	6.468
88.597	6.013	118.097	7.217	88.667	5.893	118.097	7.25
94.926	6.754	126.532	8.013	95	6.65	126.532	8.02
101.254	7.467	134.968	8.768	101.333	7.381	134.968	8.817
107.583	8.314	143.403	9.603	107.667	8.232	143.403	9.648
120.239	11.309	160.274	12.599	120.333	11.315	160.274	12.763
126.568	15.353	168.71	17.926	126.667	15.725	168.71	18.723
120.239	16.121	160.274	18.822	120.333	16.511	160.274	19.659

Tabel 15 Data hubungan beban (kN) dan defleksi (mm) bentang 5 m

P2		P4		P6		P8	
Beban	defleksi	Beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
6.546	0.166	8.268	0.202	6.475	0.164	8.244	0.201
13.092	0.332	16.537	0.403	12.951	0.329	16.489	0.402
19.638	0.5	24.805	0.638	19.426	0.494	24.733	0.636
26.184	0.741	33.074	0.965	25.902	0.729	32.978	0.961
32.731	1.038	41.342	1.403	32.377	1.021	41.222	1.396
39.277	1.477	49.611	1.954	38.853	1.446	49.467	1.944
45.823	2.014	57.879	2.556	45.328	1.972	57.711	2.544
52.369	2.607	66.148	3.192	51.804	2.555	65.956	3.178
58.915	3.237	74.416	3.849	58.279	3.176	74.2	3.833
65.461	3.89	82.685	4.59	64.755	3.822	82.445	4.575
72.007	4.621	90.953	5.386	71.23	4.54	90.689	5.376
78.553	5.409	99.222	6.182	77.706	5.32	98.934	6.177
85.099	6.203	107.49	6.981	84.181	6.113	107.17	6.98
91.646	7.006	115.75	7.779	90.657	6.914	115.42	7.782
98.192	7.821	124.02	8.595	97.132	7.719	123.66	8.605
104.73	8.669	132.29	9.397	103.60	8.559	131.91	9.411
111.28	9.59	140.56	10.265	110.08	9.468	140.15	10.293
117.83	11.151	148.83	11.587	116.55	10.734	148.40	11.582
130.92	23.416	165.36	20.767	129.50	22.263	164.89	20.99
124.37	24.586	157.10	21.805	123.03	23.377	156.64	22.04

Tabel 16 Data hubungan beban (kN) dan defleksi (mm) bentang 5 m

P10		P12		P14		P16	
beban	defleksi	beban	defleksi	beban	defleksi	beban	Defleksi
0	0	0	0	0	0	0	0
3.105	0.261	4.821	0.382	3.105	0.261	3.14	0.262
6.211	0.523	9.643	0.77	6.211	0.523	6.28	0.523
9.316	0.796	14.464	1.317	9.316	0.796	9.42	0.797
12.422	1.2	19.285	2.02	12.422	1.2	12.56	1.198
15.527	1.699	24.107	2.914	15.527	1.699	15.7	1.689
18.633	2.419	28.928	3.885	18.633	2.419	18.839	2.393
21.738	3.256	33.749	4.904	21.738	3.256	21.979	3.212
24.843	4.174	38.571	5.952	24.843	4.174	25.119	4.106
27.949	5.144	43.392	7.016	27.949	5.144	28.259	5.049
31.054	6.137	48.213	8.134	31.054	6.138	31.399	6.014
34.16	7.164	53.035	9.3	34.16	7.165	34.539	7.014
37.265	8.232	57.856	10.48	37.265	8.235	37.679	8.065
40.371	9.346	62.677	11.664	40.371	9.353	40.819	9.161
43.476	10.48	67.498	12.867	43.476	10.492	43.959	10.271
46.581	11.601	72.32	14.047	46.581	11.617	47.099	11.384
49.687	12.784	77.141	15.267	49.687	12.805	50.239	12.548
52.792	14.007	81.962	16.456	52.792	14.034	53.379	13.753
55.898	15.292	86.784	17.685	55.898	15.328	56.518	15.848
59.003	18.061	91.605	19.313	59.003	18.154	59.658	20.809
62.109	24.134	96.426	23.323	62.109	24.832	62.798	28.733



Tabel 17 Data momen (kN) dan kurvatur (rad/m) bentang 4 m

T1		T3		T5		T7	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	kurvatur	Momen
0	0	0	0	0	0	0	0
0.223	55.74	0.223	57.772	0.223	55.744	0.223	57.773
0.556	88.071	0.556	94.968	0.556	88.131	0.556	94.976
0.889	106.564	0.889	118.897	0.889	106.689	0.889	118.928
1.223	124.216	1.223	142.029	1.223	124.383	1.223	142.058
1.556	142.003	1.556	165.325	1.556	142.232	1.556	165.377
1.889	160.068	1.889	188.86	1.889	160.343	1.889	188.914
2.223	178.344	2.223	212.615	2.223	178.684	2.223	212.656
2.556	196.833	2.556	236.558	2.556	197.234	2.556	236.633
2.889	215.504	2.889	260.658	2.889	215.957	2.889	260.708
3.556	249.392	3.556	309.112	3.556	250.158	3.556	309.218
3.912	262.759	3.912	334.312	3.912	263.466	3.912	334.415
4.303	281.401	4.303	353.911	4.303	282.199	4.303	353.956
4.733	285.073	4.733	378.451	4.733	286.398	4.733	378.513
5.206	285.529	5.206	375.978	5.206	286.872	5.206	376.156
5.727	286.39	5.727	377.295	5.727	287.586	5.727	377.43
6.3	287.244	6.3	378.494	6.3	288.429	6.3	378.554
6.93	287.966	6.93	379.63	6.93	289.201	6.93	379.771
7.622	288.749	7.622	380.769	7.622	289.969	7.622	380.87
8.385	291.495	8.385	383.262	8.385	292.65	8.385	383.379
9.223	295.012	9.223	388.115	9.223	296.259	9.223	388.233

Tabel 18 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5m (Lanjutan )

T1		T3		T5		T7	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	Kurvatur	Momen
12.276	307.138	12.276	404.049	12.276	308.403	12.276	404.184
13.504	311.237	13.504	407.363	13.504	312.587	13.504	407.496
14.854	313.576	14.854	409.487	14.854	314.847	14.854	409.62
16.339	316.559	16.339	412.602	16.339	317.821	16.339	412.735
17.973	319.808	17.973	416.509	17.973	321.039	17.973	416.643
19.771	323	19.771	420.69	19.771	324.365	19.771	420.816
21.748	326.477	21.748	425.062	21.748	327.769	21.748	425.209
23.923	330.092	23.923	429.729	23.923	331.371	23.923	429.886
26.315	333.919	26.315	434.574	26.315	335.235	26.315	434.742
28.946	337.978	28.946	439.777	28.946	339.329	28.946	439.924
31.841	342.276	31.841	445.26	31.841	343.56	31.841	445.4
35.025	346.841	35.025	450.937	35.025	348.12	35.025	451.079
38.527	351.614	38.527	456.81	38.527	352.996	38.527	456.954
42.38	356.69	42.38	462.638	42.38	358.12	42.38	462.783
46.618	361.902	46.618	468.351	46.618	363.281	46.618	468.497
51.28	367.081	51.28	473.833	51.28	368.453	51.28	473.979
56.408	372.159	56.408	478.872	56.408	373.552	56.408	479.019
62.049	376.982	62.049	483.435	62.049	378.363	62.049	483.581
68.254	381.337	68.254	487.52	68.254	382.691	68.254	487.668
82.587	388.187	82.587	495.695	82.587	389.57	82.587	495.846
90.846	390.804	90.846	500.574	90.846	392.165	90.846	500.762
99.93	393.35	99.93	506.22	99.93	394.724	99.93	506.351

Tabel 19 Data momen (kN) dan kurvatur (rad/m) bentang 4 m

T9		T11		T13		T15	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	Kurvatur	Momen
0	0	0	0	0	0	0	0
0.223	56.276	0.223	58.378	0.223	56.28	0.223	58.378
0.556	88.399	0.556	95.309	0.556	88.413	0.556	95.309
0.889	108.202	0.889	120.442	0.889	108.231	0.889	120.442
1.223	126.179	1.223	143.928	1.223	126.222	1.223	143.928
1.556	144.017	1.556	167.319	1.556	144.075	1.556	167.319
1.889	162.009	1.889	190.878	1.889	162.081	1.889	190.878
2.223	180.173	2.223	214.636	2.223	180.259	2.223	214.636
2.556	198.538	2.556	238.519	2.556	198.639	2.556	238.519
2.889	217.016	2.889	262.562	2.889	217.132	2.889	262.562
3.223	235.557	3.223	286.739	3.223	235.7	3.223	286.739
3.556	248.272	3.556	310.96	3.556	248.453	3.556	310.96
3.912	263.254	3.912	334.599	3.912	263.444	3.912	334.599
4.303	281.824	4.303	355.134	4.303	282.028	4.303	355.134
4.733	284.245	4.733	380.079	4.733	284.462	4.733	380.079
5.206	284.627	5.206	376.099	5.206	284.8	5.206	376.099
5.727	285.401	5.727	377.426	5.727	285.711	5.727	377.426
6.3	286.247	6.3	378.535	6.3	286.452	6.3	378.535
6.93	287.067	6.93	379.828	6.93	287.185	6.93	379.828
7.622	287.79	7.622	380.873	7.622	288.022	7.622	380.873
8.385	290.463	8.385	383.399	8.385	290.697	8.385	383.399
9.223	294.012	9.223	388.266	9.223	294.267	9.223	388.266
10.145	297.827	10.145	393.335	10.145	298.072	10.145	393.335
11.16	301.857	11.16	398.804	11.16	302.101	11.16	398.804

Tabel 20 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m (Lajutan)

T9		T11		T13		T15	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	Kurvatur	Momen
12.276	306.134	12.276	404.438	12.276	306.382	12.276	404.438
13.504	310.701	13.504	408.466	13.504	310.953	13.504	408.466
14.854	313.452	14.854	410.689	14.854	313.699	14.854	410.689
16.339	316.422	16.339	413.785	16.339	316.669	16.339	413.785
17.973	319.626	17.973	417.642	17.973	319.897	17.973	417.642
19.771	322.887	19.771	421.777	19.771	323.108	19.771	421.777
21.748	326.288	21.748	426.111	21.748	326.536	21.748	426.111
23.923	329.876	23.923	430.742	23.923	330.116	23.923	430.742
26.315	333.624	26.315	435.539	26.315	333.895	26.315	435.539
28.946	337.694	28.946	440.658	28.946	337.891	28.946	440.658
31.841	341.902	31.841	446.208	31.841	342.12	31.841	446.208
35.025	346.316	35.025	451.79	35.025	346.63	35.025	451.79
38.527	351.191	38.527	457.531	38.527	351.357	38.527	457.531
42.38	356.063	42.38	463.314	42.38	356.405	42.38	463.314
46.618	361.223	46.618	468.971	46.618	361.477	46.618	468.971
51.28	366.329	51.28	474.363	51.28	366.633	51.28	474.363
56.408	371.356	56.408	479.376	56.408	371.636	56.408	479.376
62.049	376.113	62.049	483.889	62.049	376.39	62.049	483.889
68.254	380.4	68.254	487.947	68.254	380.659	68.254	487.947
75.079	384.134	75.079	491.897	75.079	384.399	75.079	491.897
82.587	387.137	82.587	496.054	82.587	387.414	82.587	496.054
90.846	389.693	90.846	500.927	90.846	389.994	90.846	500.927
99.93	392.185	99.93	506.581	99.93	392.489	99.93	506.581

Tabel 21 hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m

P1		P3		P5		P7	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	kurvatur	Momen
0	0	0	0	0	0	0	0
0.223	47.194	0.223	49.215	0.223	47.178	0.223	49.212
0.556	80.61	0.556	86.814	0.556	80.584	0.556	86.805
0.889	98.988	0.889	110.097	0.889	98.956	0.889	110.078
1.223	116.002	1.223	132.153	1.223	115.965	1.223	132.124
1.556	132.867	1.556	154.094	1.556	132.824	1.556	154.055
1.889	149.858	1.889	176.198	1.889	149.816	1.889	176.149
2.223	167.021	2.223	198.417	2.223	166.954	2.223	198.358
2.556	184.289	2.556	220.765	2.556	184.226	2.556	220.697
2.889	201.734	2.889	243.252	2.889	201.668	2.889	243.174
3.223	219.237	3.223	265.814	3.223	219.175	3.223	265.731
3.556	236.811	3.556	288.422	3.556	236.749	3.556	288.325
3.912	250.602	3.912	312.534	3.912	250.548	3.912	312.428
4.303	265.845	4.303	336.944	4.303	265.733	4.303	336.805
4.733	283.203	4.733	358.276	4.733	283.12	4.733	358.137
5.206	280.219	5.206	370.441	5.206	280.157	5.206	370.249
5.727	281.196	5.727	371.214	5.727	281.138	5.727	371.034
6.3	282.237	6.3	372.643	6.3	282.185	6.3	372.456
6.93	283.143	6.93	374.042	6.93	283.133	6.93	373.861
7.622	284	7.622	375.224	7.622	283.965	7.622	375.05
8.385	285.655	8.385	376.442	8.385	285.591	8.385	376.238
9.223	289.26	9.223	381.11	9.223	289.207	9.223	380.927
10.145	293.03	10.145	386.084	10.145	292.926	10.145	385.902
11.16	297.002	11.16	391.335	11.16	296.985	11.16	391.147

Tabel 22 Data hubungan momen (mm) dan kurvatur (rad/m) bentang 4 m (Lanjutan )

P1		P3		P5		P7	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	kurvatur	Momen
12.276	301.207	12.276	396.875	12.276	301.121	12.276	396.683
13.504	305.639	13.504	401.106	13.504	305.592	13.504	400.915
14.854	308.35	14.854	403.425	14.854	308.327	14.854	403.229
16.339	310.873	16.339	405.715	16.339	310.892	16.339	405.539
17.973	313.971	17.973	409.438	17.973	313.935	17.973	409.248
19.771	317.123	19.771	413.425	19.771	317.093	19.771	413.222
21.748	320.391	21.748	417.44	21.748	320.37	21.748	417.243
23.923	323.794	23.923	421.683	23.923	323.776	23.923	421.488
26.315	327.308	26.315	426.077	26.315	327.283	26.315	425.88
28.946	331.041	28.946	430.619	28.946	331.016	28.946	430.42
31.841	334.941	31.841	435.112	31.841	334.919	31.841	434.914
35.025	338.911	35.025	439.719	35.025	338.875	35.025	439.518
38.527	343.029	38.527	444.18	38.527	342.979	38.527	443.98
46.618	350.995	46.618	452.711	46.618	350.867	46.618	452.515
51.28	354.729	51.28	456.781	51.28	354.533	51.28	456.565
62.049	361.371	62.049	465.289	62.049	360.941	62.049	465.02
75.079	367.499	75.079	476.161	75.079	366.884	75.079	475.916
82.587	371.002	82.587	475.207	82.587	370.287	82.587	475.088
90.846	369.564	90.846	459.251	90.846	368.974	90.846	459.33
99.93	351.552	99.93	433.986	99.93	350.776	99.93	434.042
109.923	322.972	109.923	409.704	109.923	322.029	109.923	409.781

Tabel 23 Data hubungan momen (kN) dan curvatur (rad/m) bentang 4 m

P9		P11		P13		P15	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	kurvatur	Momen
0	0	0	0	0	0	0	0
0.334	20.985	0.334	22.285	0.334	20.985	0.334	21.189
0.834	36.145	0.834	40.958	0.834	36.145	0.834	36.723
1.334	44.73	1.334	53.586	1.334	44.73	1.334	45.567
1.834	52.571	1.834	65.575	1.834	52.571	1.834	53.718
2.334	60.302	2.334	77.472	2.334	60.302	2.334	61.769
2.834	68.042	2.834	89.39	2.834	68.042	2.834	69.857
3.334	75.856	3.334	101.343	3.334	75.856	3.334	78.003
3.834	83.703	3.834	113.327	3.834	83.703	3.834	86.198
4.334	91.6	4.334	125.341	4.334	91.6	4.334	94.439
4.834	99.542	4.834	137.361	4.834	99.542	4.834	102.727
5.334	107.498	5.334	149.389	5.334	107.498	5.334	111.032
5.867	116.017	5.867	162.217	5.867	116.017	5.867	119.925
6.454	124.704	6.454	176.309	6.454	124.704	6.454	127.167
7.099	131.561	7.099	191.763	7.099	131.561	7.099	135.318
7.809	140.1	7.809	208.713	7.809	140.1	7.809	139.927
8.59	139.015	8.59	222.575	8.59	139.015	8.59	139.464
9.449	139.573	9.449	225.59	9.449	139.573	9.449	140.02
10.394	140.16	10.394	226.674	10.394	140.16	10.394	140.506
11.434	140.667	11.434	227.653	11.434	140.667	11.434	141.012
12.577	141.207	12.577	228.591	12.577	141.207	12.577	141.486
13.835	142.181	13.835	229.446	13.835	142.181	13.835	142.946
15.218	144.046	15.218	231.52	15.218	144.046	15.218	144.796
16.74	145.996	16.74	234.62	16.74	145.996	16.74	146.769
18.414	148.048	18.414	237.792	18.414	148.048	18.414	148.841

Tabel 24 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 4 m (Lanjutan)

P9		P11		P13		P15	
kurvatur	Momen	kurvatur	Momen	kurvatur	Momen	kurvatur	Momen
20.255	150.209	20.255	241.068	20.255	150.209	20.255	151.024
24.509	153.873	24.509	244.228	24.509	153.873	24.509	153.862
26.96	155.274	26.96	245.052	26.96	155.274	26.96	155.423
29.656	156.908	29.656	246.994	29.656	156.908	29.656	156.998
32.622	158.59	32.622	248.822	32.622	158.59	32.622	158.606
39.472	161.967	39.472	251.921	39.472	161.967	39.472	162.021
43.419	163.624	43.419	253.053	43.419	163.624	43.419	163.77
47.761	165.17	47.761	253.865	47.761	165.17	47.761	165.474
52.537	166.552	52.537	254.362	52.537	166.552	52.537	167.112
57.791	167.695	57.791	254.94	57.791	167.695	57.791	168.627
63.57	168.529	63.57	255.584	63.57	168.529	63.57	169.952
69.927	169.009	69.927	256.236	69.927	169.009	69.927	171.057
76.92	169.178	76.92	257.037	76.92	169.178	76.92	171.92
84.612	169.168	84.612	258.396	84.612	169.168	84.612	172.612
93.073	169.19	93.073	260.38	93.073	169.19	93.073	173.291
102.381	169.47	102.381	252.034	102.381	169.47	102.381	174.117
123.881	171.401	123.881	222.253	123.881	171.401	123.881	176.833
136.269	172.074	136.269	210.472	136.269	172.074	136.269	178.789
149.895	164.319			149.895	164.319	149.895	173.206
164.885	153.184			164.885	153.184	164.885	162.59
						181.374	152.848



Tabel 25 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m

Kurvatur	T2	T4	T6	T8
0	0	0	0	0
0.223	55.74	57.772	55.744	57.773
0.556	88.071	94.968	88.131	94.976
0.889	106.564	118.897	106.689	118.928
1.223	124.216	142.029	124.383	142.058
1.556	142.003	165.325	142.232	165.377
1.889	160.068	188.86	160.343	188.914
2.223	178.344	212.615	178.684	212.656
2.556	196.833	236.558	197.234	236.633
2.889	215.504	260.658	215.957	260.708
3.223	234.271	284.855	234.752	284.881
3.556	249.392	309.112	250.158	309.218
3.912	262.759	334.312	263.466	334.415
4.303	281.401	353.911	282.199	353.956
4.733	285.073	378.451	286.398	378.513
5.206	285.529	375.978	286.872	376.156
6.3	287.244	378.494	288.429	378.554
6.93	287.966	379.63	289.201	379.771
7.622	288.749	380.769	289.969	380.87
8.385	291.495	383.262	292.65	383.379
9.223	295.012	388.115	296.259	388.233
10.145	298.819	393.136	299.97	393.235

Tabel 26 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5m (Lanjutan )

Kurvatur	T2	T4	T6	T8
11.16	302.853	398.479	304.019	398.607
12.276	307.138	404.049	308.403	404.184
13.504	311.237	407.363	312.587	407.496
14.854	313.576	409.487	314.847	409.62
16.339	316.559	412.602	317.821	412.735
17.973	319.808	416.509	321.039	416.643
19.771	323	420.69	324.365	420.816
21.748	326.477	425.062	327.769	425.209
23.923	330.092	429.729	331.371	429.886
26.315	333.919	434.574	335.235	434.742
28.946	337.978	439.777	339.329	439.924
31.841	342.276	445.26	343.56	445.4
35.025	346.841	450.937	348.12	451.079
42.38	356.69	462.638	358.12	462.783
46.618	361.902	468.351	363.281	468.497
51.28	367.081	473.833	368.453	473.979
56.408	372.159	478.872	373.552	479.019
62.049	376.982	483.435	378.363	483.581
68.254	381.337	487.52	382.691	487.668
75.079	385.113	491.476	386.483	491.611
82.587	388.187	495.695	389.57	495.846
90.846	390.804	500.574	392.165	500.762

Tabel 27 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m

T10	T12	T14	T16
0	0	0	0
56.276	58.378	56.28	58.378
88.399	95.309	88.413	95.309
108.202	120.442	108.231	120.442
144.017	167.319	144.075	167.319
162.009	190.878	162.081	190.878
180.173	214.636	180.259	214.636
198.538	238.519	198.639	238.519
217.016	262.562	217.132	262.562
235.557	286.739	235.7	286.739
248.272	310.96	248.453	310.96
263.254	334.599	263.444	334.599
281.824	355.134	282.028	355.134
284.245	380.079	284.462	380.079
284.627	376.099	284.8	376.099
285.401	377.426	285.711	377.426
287.067	379.828	287.185	379.828
287.79	380.873	288.022	380.873
290.463	383.399	290.697	383.399
294.012	388.266	294.267	388.266
297.827	393.335	298.072	393.335

Tabel 28 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m  
(Lanjutan )

T10	T12	T14	T16
12.276	306.134	12.276	404.438
13.504	310.701	13.504	408.466
14.854	313.452	14.854	410.689
16.339	316.422	16.339	413.785
17.973	319.626	17.973	417.642
19.771	322.887	19.771	421.777
21.748	326.288	21.748	426.111
23.923	329.876	23.923	430.742
26.315	333.624	26.315	435.539
28.946	337.694	28.946	440.658
31.841	341.902	31.841	446.208
35.025	346.316	35.025	451.79
38.527	351.191	38.527	457.531
42.38	356.063	42.38	463.314
46.618	361.223	46.618	468.971
51.28	366.329	51.28	474.363
62.049	376.113	62.049	483.889
68.254	380.4	68.254	487.947
75.079	384.134	75.079	491.897
82.587	387.137	82.587	496.054
90.846	389.693	90.846	500.927
99.93	392.185	99.93	506.581

Tabel 29 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5 m

Kurvatur	P2	P4	P6	P8
0	0	0	0	0
0.223	47.194	49.215	47.178	49.212
0.556	80.61	86.814	80.584	86.805
0.889	98.988	110.097	98.956	110.078
1.223	116.002	132.153	115.965	132.124
1.889	149.858	176.198	149.816	176.149
2.223	167.021	198.417	166.954	198.358
2.556	184.289	220.765	184.226	220.697
2.889	201.734	243.252	201.668	243.174
3.223	219.237	265.814	219.175	265.731
3.912	250.602	312.534	250.548	312.428
4.303	265.845	336.944	265.733	336.805
4.733	283.203	358.276	283.12	358.137
5.206	280.219	370.441	280.157	370.249
5.727	281.196	371.214	281.138	371.034
7.622	284	375.224	283.965	375.05
8.385	285.655	376.442	285.591	376.238
9.223	289.26	381.11	289.207	380.927
10.145	293.03	386.084	292.926	385.902
11.16	297.002	391.335	296.985	391.147
12.276	301.207	396.875	301.121	396.683
13.504	305.639	401.106	305.592	400.915

Tabel 30 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5m (Lanjutan )

Kurvatur	P2	P4	P6	P8
14.854	308.35	403.425	308.327	403.229
16.339	310.873	405.715	310.892	405.539
17.973	313.971	409.438	313.935	409.248
19.771	317.123	413.425	317.093	413.222
21.748	320.391	417.44	320.37	417.243
23.923	323.794	421.683	323.776	421.488
26.315	327.308	426.077	327.283	425.88
31.841	334.941	435.112	334.919	434.914
38.527	343.029	444.18	342.979	443.98
42.38	347.071	448.531	346.99	448.33
46.618	350.995	452.711	350.867	452.515
56.408	358.171	460.887	357.896	460.643
62.049	361.371	465.289	360.941	465.02
68.254	364.353	470.351	363.854	470.123
75.079	367.499	476.161	366.884	475.916
82.587	371.002	475.207	370.287	475.088
90.846	369.564	459.251	368.974	459.33
99.93	351.552	433.986	350.776	434.042
109.923	322.972	409.704	322.029	409.781
14.854	308.35	403.425	308.327	403.229
16.339	310.873	405.715	310.892	405.539
17.973	313.971	409.438	313.935	409.248

Tabel 31 Data momen (kN) dan kurvatur (rad/m) bentang 5 m .

P10	P12	P14	P16
0	0	0	0
20.985	22.285	20.985	21.189
36.145	40.958	36.145	36.723
44.73	53.586	44.73	45.567
52.571	65.575	52.571	53.718
60.302	77.472	60.302	61.769
68.042	89.39	68.042	69.857
75.856	101.343	75.856	78.003
83.703	113.327	83.703	86.198
91.6	125.341	91.6	94.439
99.542	137.361	99.542	102.727
107.498	149.389	107.498	111.032
116.017	162.217	116.017	119.925
124.704	176.309	124.704	127.167
131.561	191.763	131.561	135.318
140.1	208.713	140.1	139.927
139.015	222.575	139.015	139.464
140.16	226.674	140.16	140.506
140.667	227.653	140.667	141.012
142.181	229.446	142.181	142.946
145.996	234.62	145.996	146.769
148.048	237.792	148.048	148.841

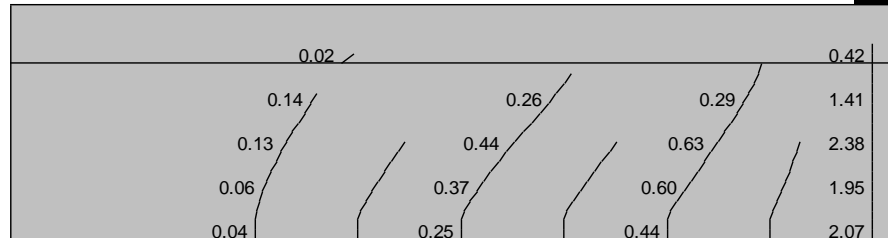
Tabel 32 Data hubungan momen (kN) dan kurvatur (rad/m) bentang 5m (Lanjutan )

P10	P12	P14	P16
150.209	241.068	150.209	151.024
152.447	243.017	152.447	152.784
153.873	244.228	153.873	153.862
155.274	245.052	155.274	155.423
156.908	246.994	156.908	156.998
158.59	248.822	158.59	158.606
160.271	250.49	160.271	160.287
161.967	251.921	161.967	162.021
163.624	253.053	163.624	163.77
165.17	253.865	165.17	165.474
166.552	254.362	166.552	167.112
167.695	254.94	167.695	168.627
168.529	255.584	168.529	169.952
169.009	256.236	169.009	171.057
169.178	257.037	169.178	171.92
169.168	258.396	169.168	172.612
169.19	260.38	169.19	173.291
169.47	252.034	169.47	174.117
170.187	236.226	170.187	175.284
171.401	222.253	171.401	176.833
172.074	210.472	172.074	178.789
153.184		153.184	162.59



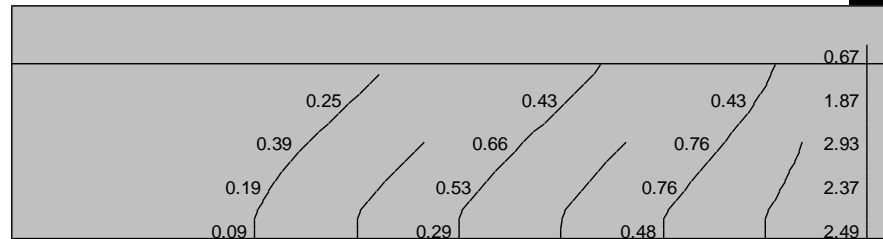
## LAMPIRAN II GAMBAR POLA RETAK

**Member Crack Diagram**



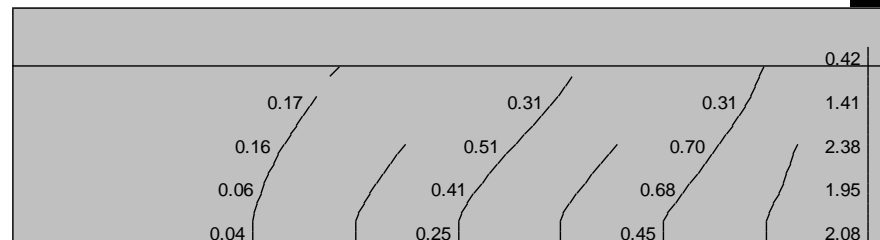
Gambar 1 Pola retak balok T1 bentang 4m

**Member Crack Diagram**



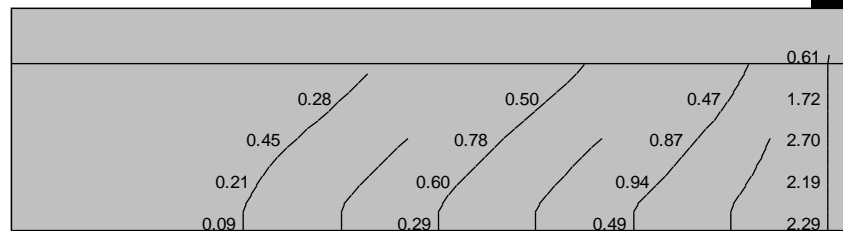
Gambar 2 Pola retak balok T3 bentang 4m

**Member Crack Diagram**



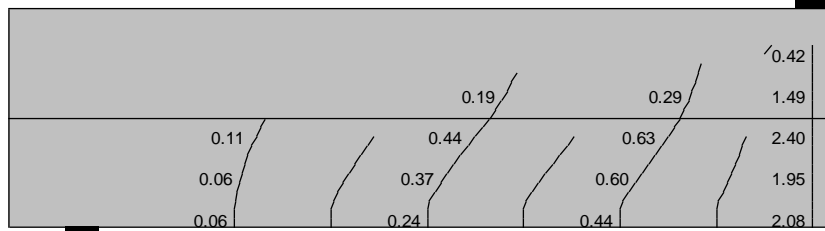
Gambar 3 Pola retak balok T5 bentang 4m

**Member Crack Diagram**



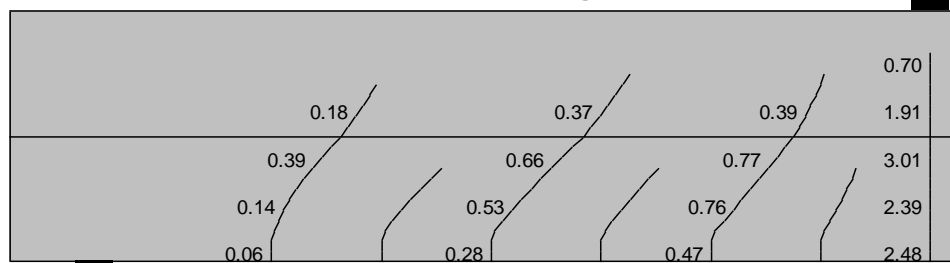
Gambar 4 Pola retak balok T7 bentang 4m

**Member Crack Diagram**



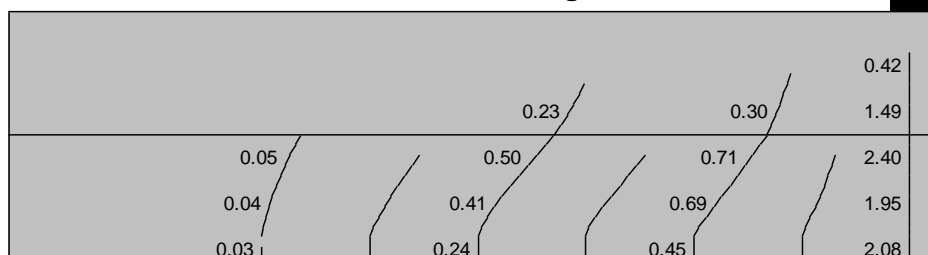
Gambar 5 Pola retak balok T9 bentang 4m

**Member Crack Diagram**



Gambar 6 Pola retak balok T11 bentang 4m

**Member Crack Diagram**



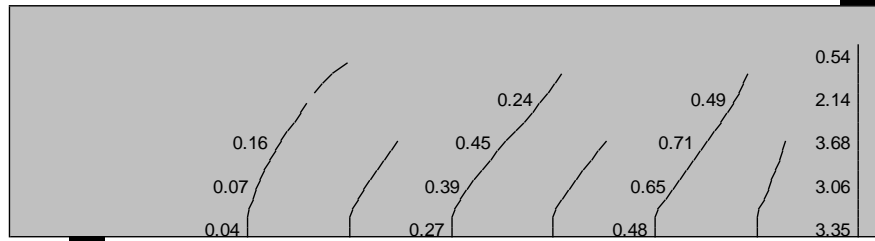
Gambar 7 Pola retak balok T13 bentang 4m

**Member Crack Diagram**



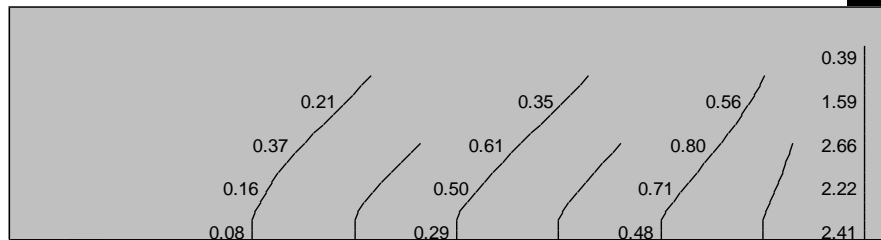
Gambar 8 Pola retak balok T15 bentang 4m

**Member Crack Diagram**



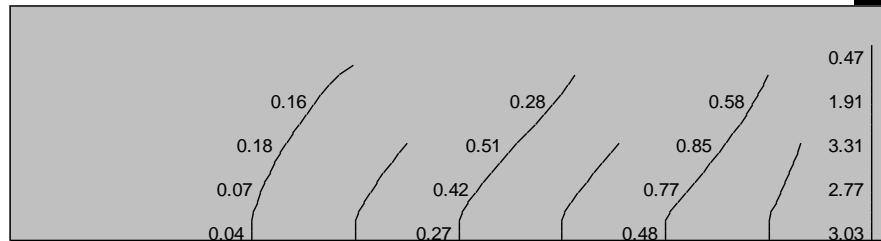
Gambar 9 Pola retak balok P1 bentang 4m

**Member Crack Diagram**



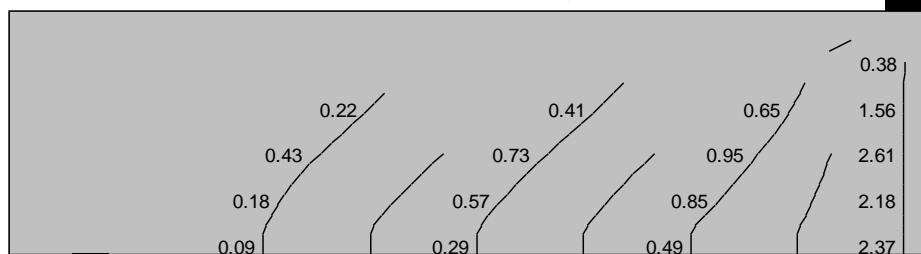
Gambar 10 Pola retak balok P3 bentang 4m

**Member Crack Diagram**

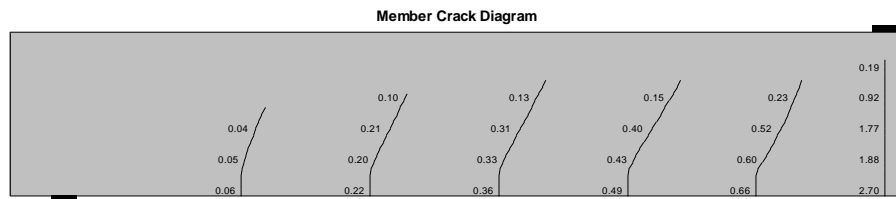


Gambar 11 Pola retak balok P5 bentang 4m

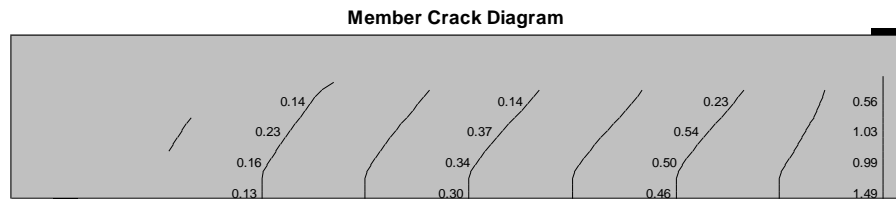
**Member Crack Diagram**



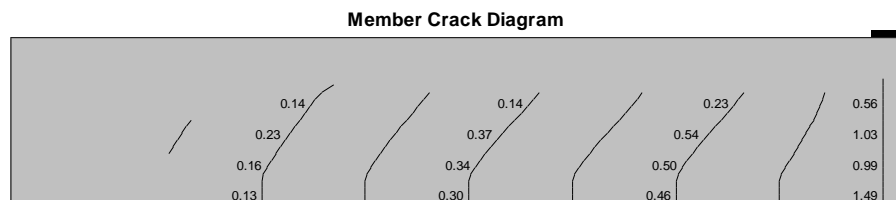
Gambar 12 Pola retak balok P7 bentang 4m



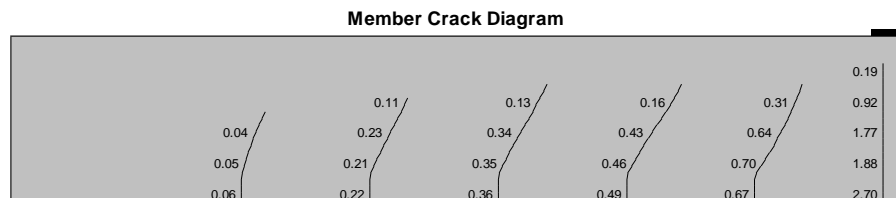
Gambar 13 Pola retak balok T9 bentang 4m



Gambar 14 Pola retak balok P11 bentang 4m

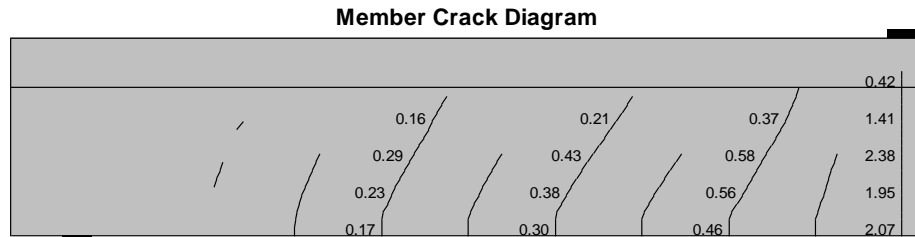


Gambar 15 Pola retak balok T13 bentang 4m

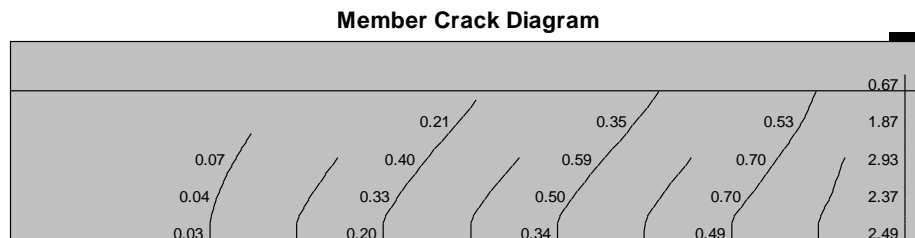


Gambar 16 Pola retak balok T15 bentang 4m

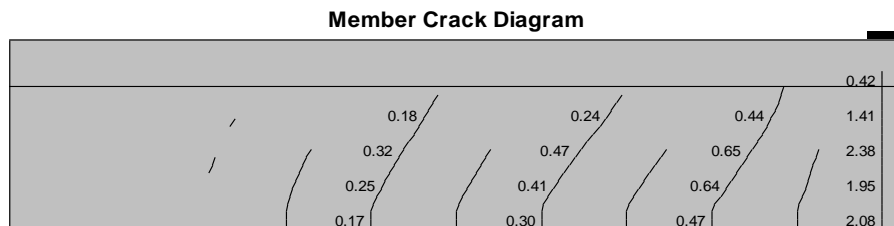
## Pola retak balok bentang 5m



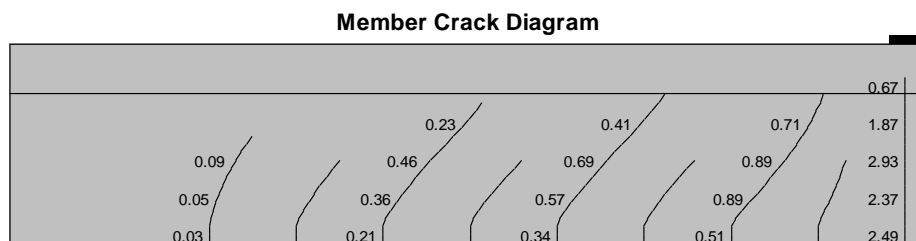
Gambar 17 Pola retak balok T2 bentang 5m



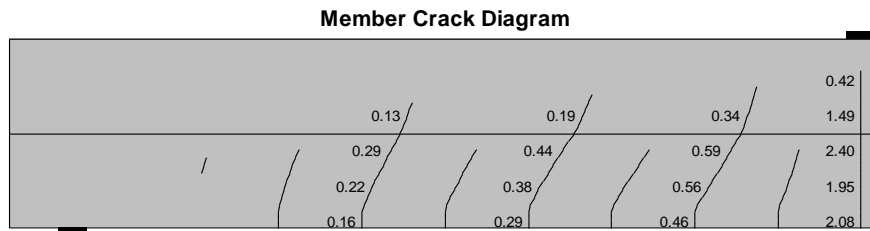
Gambar 18 Pola retak balok T4 bentang 5m



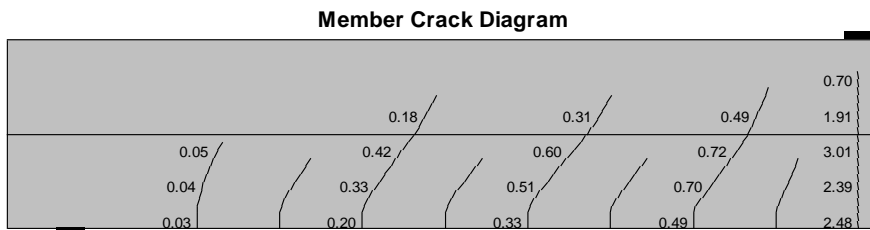
Gambar 19 Pola retak balok T6 bentang 5m



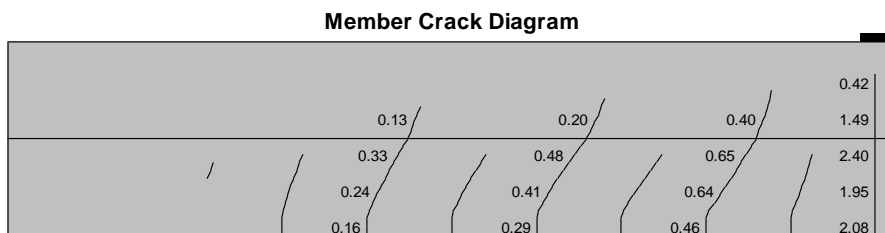
Gambar 20 Pola retak balok T8 bentang 5m



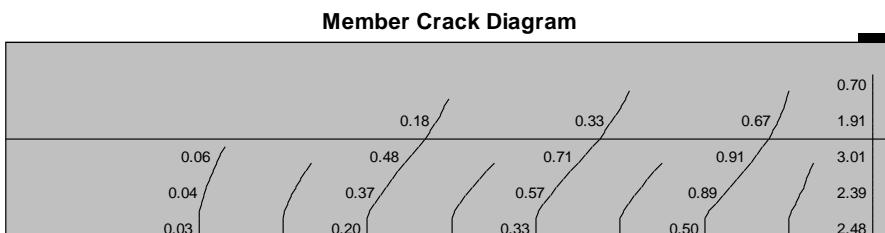
Gambar 21 Pola retak balok T10 bentang 5m



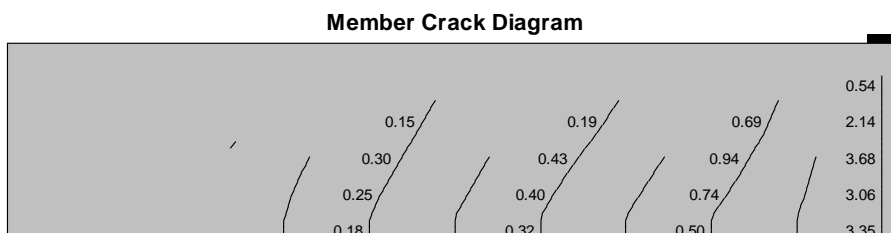
Gambar 22 Pola retak balok T12 bentang 5m



Gambar 23 Pola retak balok T14 bentang 5m

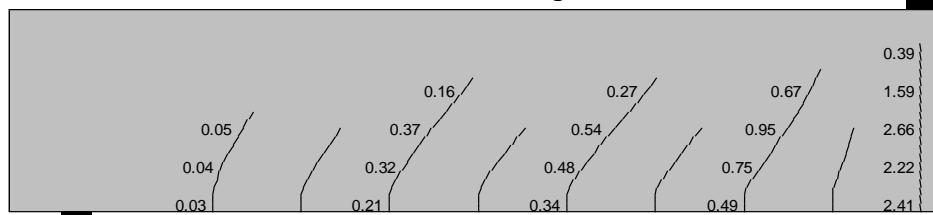


Gambar 24 Pola retak balok T16 bentang 5m



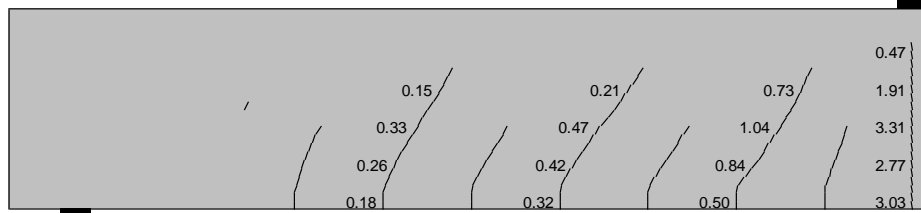
Gambar 5.25 Pola retak balok P2 bentang 5m

Member Crack Diagram



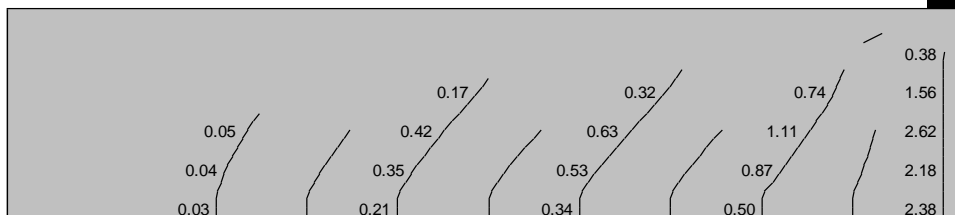
Gambar 26 Pola retak balok P4 bentang 5m

Member Crack Diagram



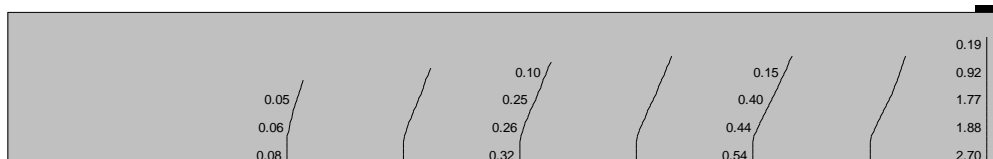
Gambar 27 Pola retak balok P6 bentang 5m

Member Crack Diagram



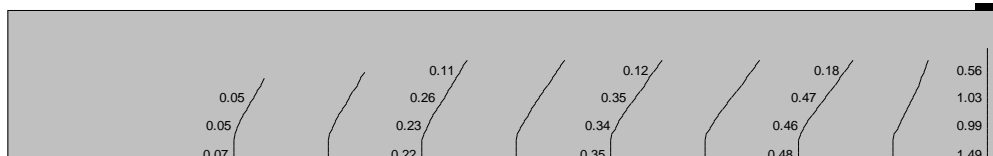
Gambar 28 Pola retak balok P8 bentang 5m

Member Crack Diagram

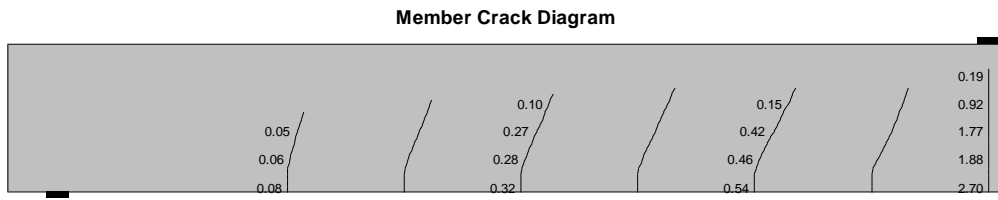


Gambar 29 Pola retak balok P10 bentang 5m

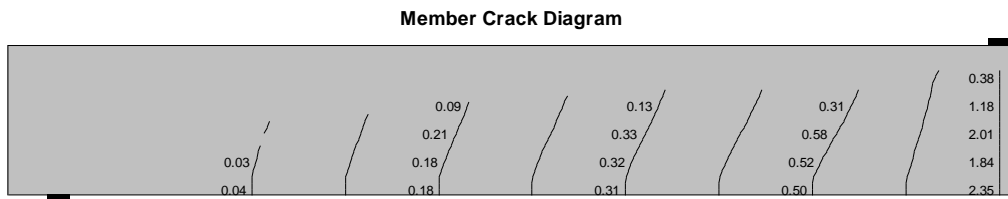
Member Crack Diagram



Gambar 30 Pola retak balok P12 bentang 5m



Gambar 31 Pola retak balok P14 bentang 5m



Gambar 32 Pola retak balok P16 bentang 5m