BAB V

KESIMPULAN DAN SARAN

5.1. Kesimpulan

Tugas Akhir ini dirancang dengan memenuhi ketentuan Tata Cara Perhitungan Struktur Beton Untuk Gedung SNI 03-2847-2002, Tata Cara Perencanaan Ketahanan Gempa Untuk Bangunan Gedung SNI 03-1726-2002 serta Peraturan Pembebanan Indonesia Untuk Rumah dan Gedung tahun 1987 dengan hasil :

1. Hasil perbandingan antara perhitungan gaya geser nominal dinamik dan gaya geser analisis ragam pertama didapatkan bahwa gaya geser analisis dinamik lebih besar dari gaya geser nominal ragam pertama. Dalam hitungan analisis struktur digunakan gaya geser nominal dari analisis dinamik.
2. Pelat yang dihitung menghasilkan pelat dua arah yang terdapat pada pelat atap, pelat lantai maupun pelat *ramps*.
3. Balok berdimensi 400/800 memerlukan tulangan 6D25 pada tumpuan atas dan 4D25 pada tumpuan bawah, tulangan 3D25 pada lapangan atas 4D25 pada lapangan bawah. Untuk tulangan begel pada sendi plastis 3P12-100 dan di luar sendi plastis menggunakan 3P12-250.
4. Kolom lantai 2 dengan dimensi 800/800 mampu menahan balok dengan tulangan longitudinal 20D25. Tulangan geser kolom digunakan 6P12-100 untuk di daerah λ_o dan di luar daerah λ_o digunakan 6P12-150.

5.2. Saran

1. Analisis struktur gedung dalam pembuatan model gedung beserta perhitungannya akan lebih mudah memakai program analisis struktur ETABS dan program-program bantu lainnya.
2. Input data pada program analisis struktur ETABS sebaiknya memakai peraturan yang berlaku.

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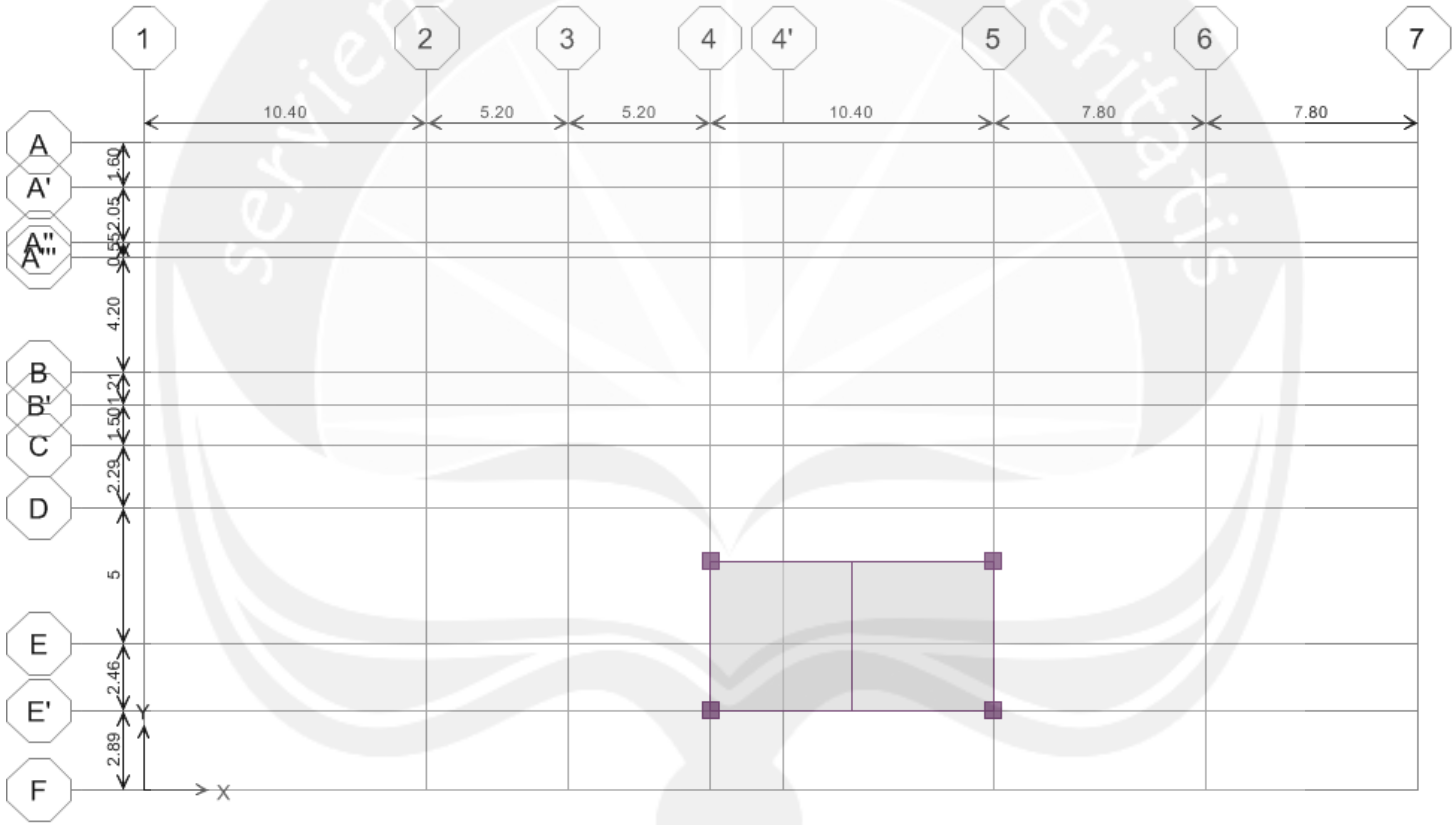
LAMPIRAN

GAMBAR DENAH GEDUNG



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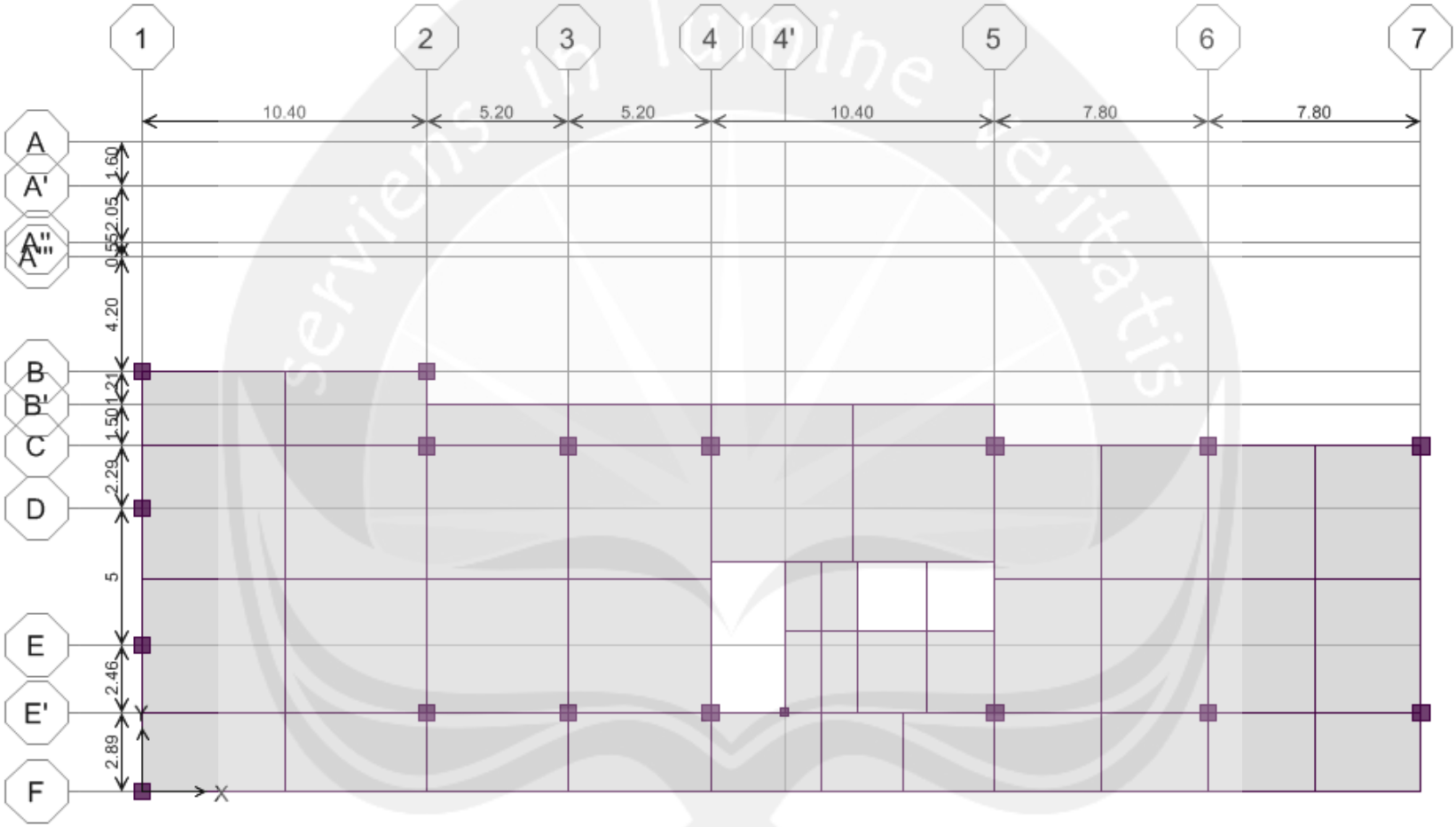
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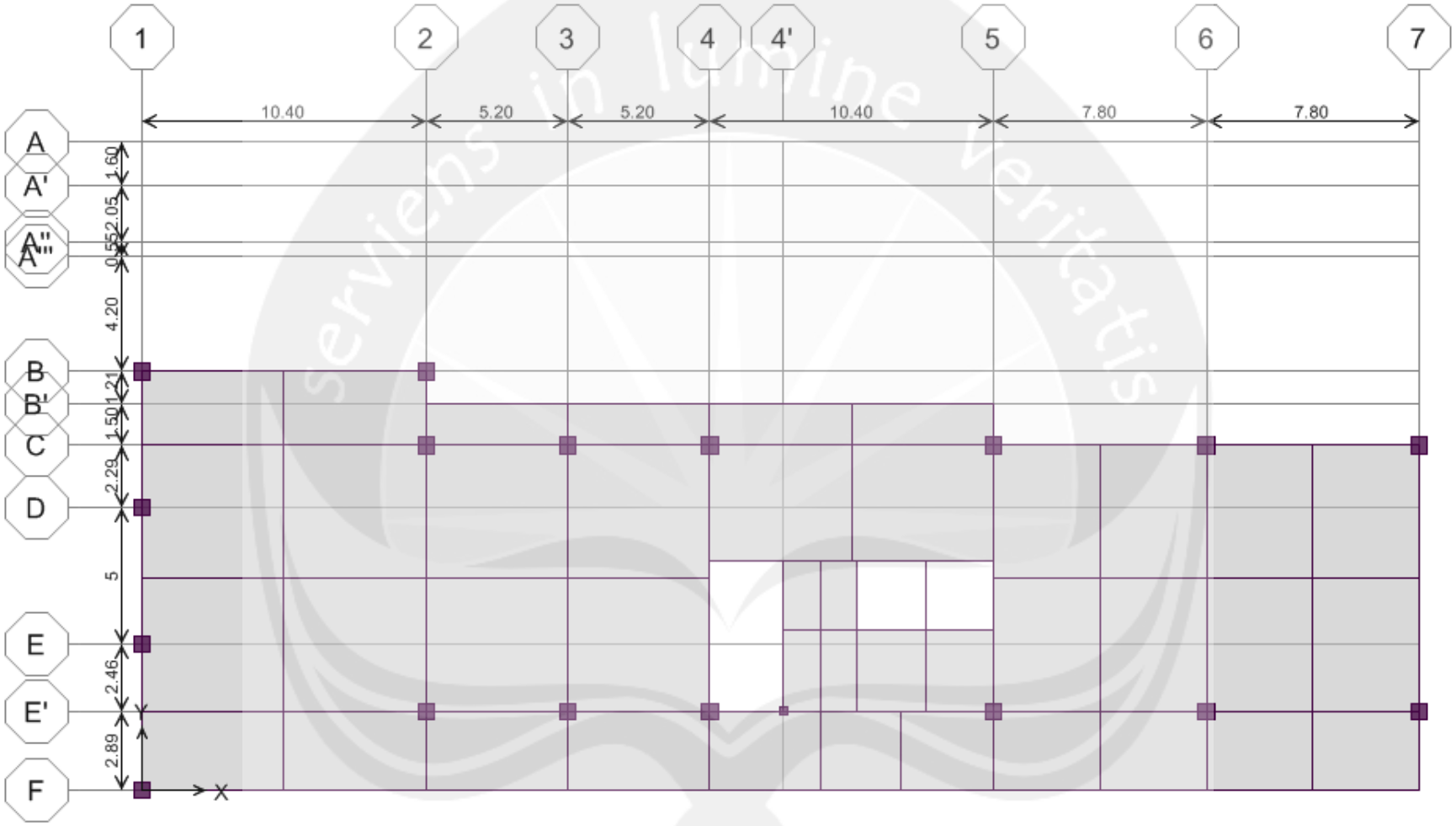
0.55
4.20
1.21
1.50
2.29
5
2.46
2.89
X

DENAH ATAP



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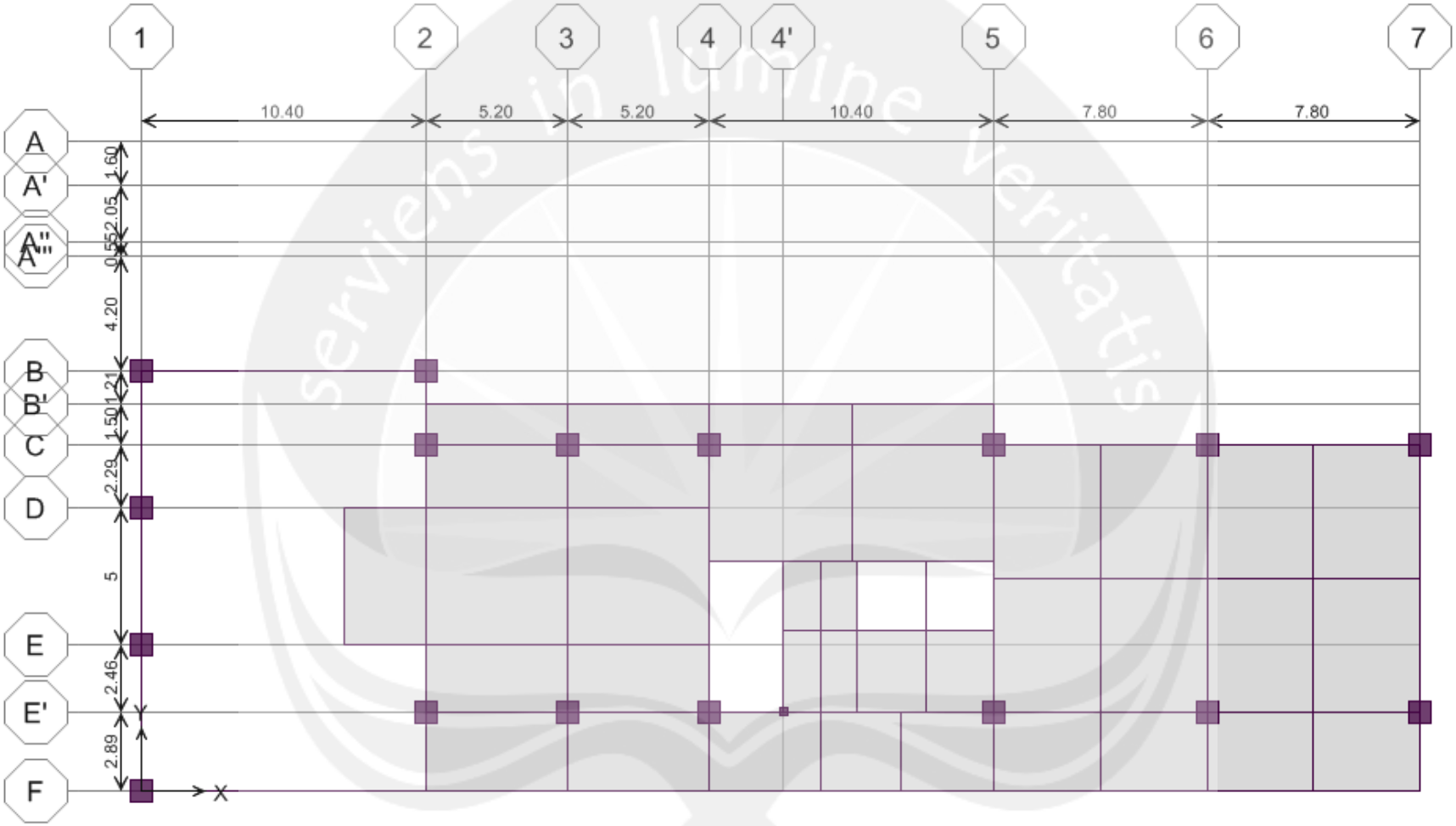

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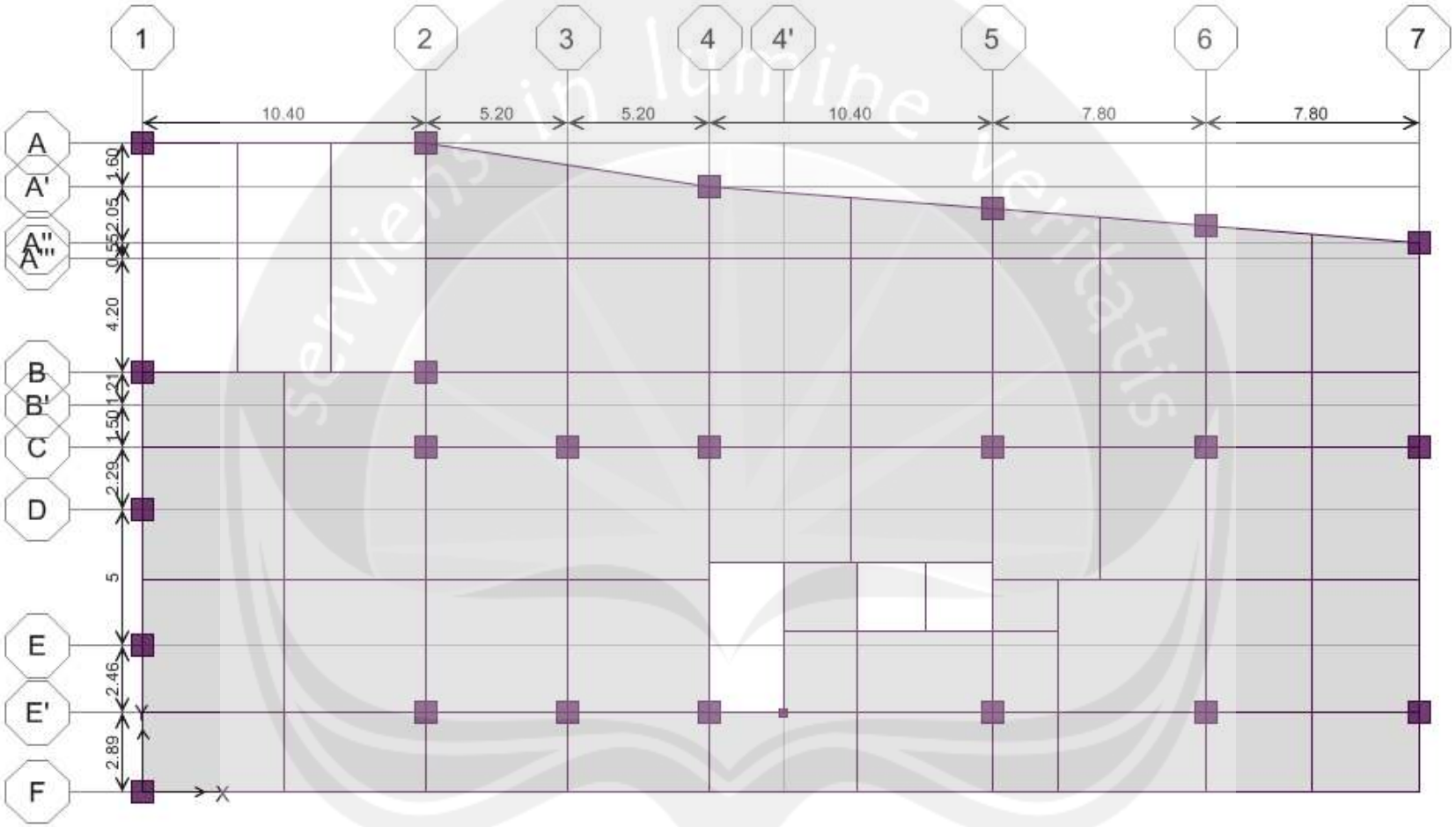

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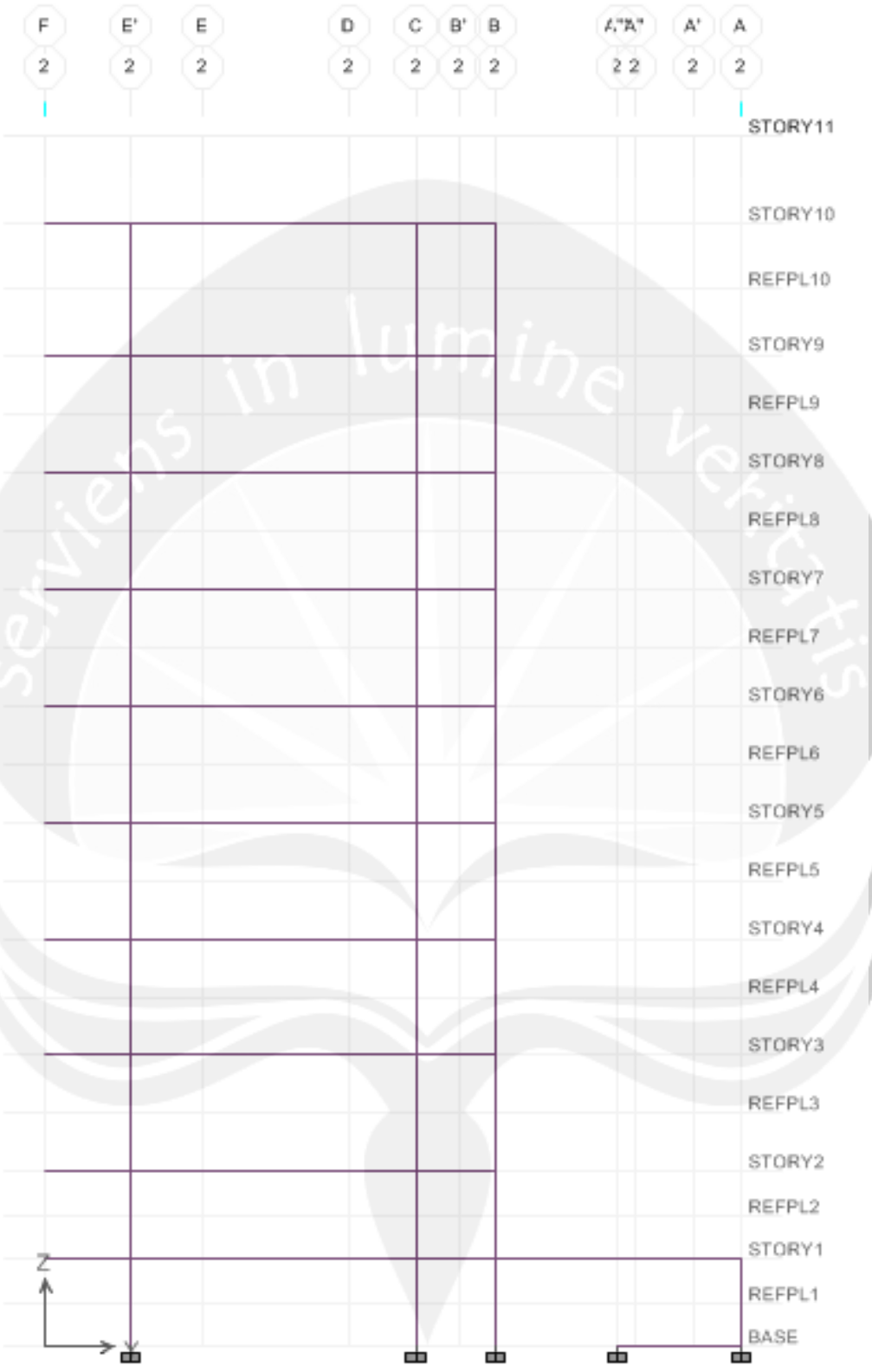
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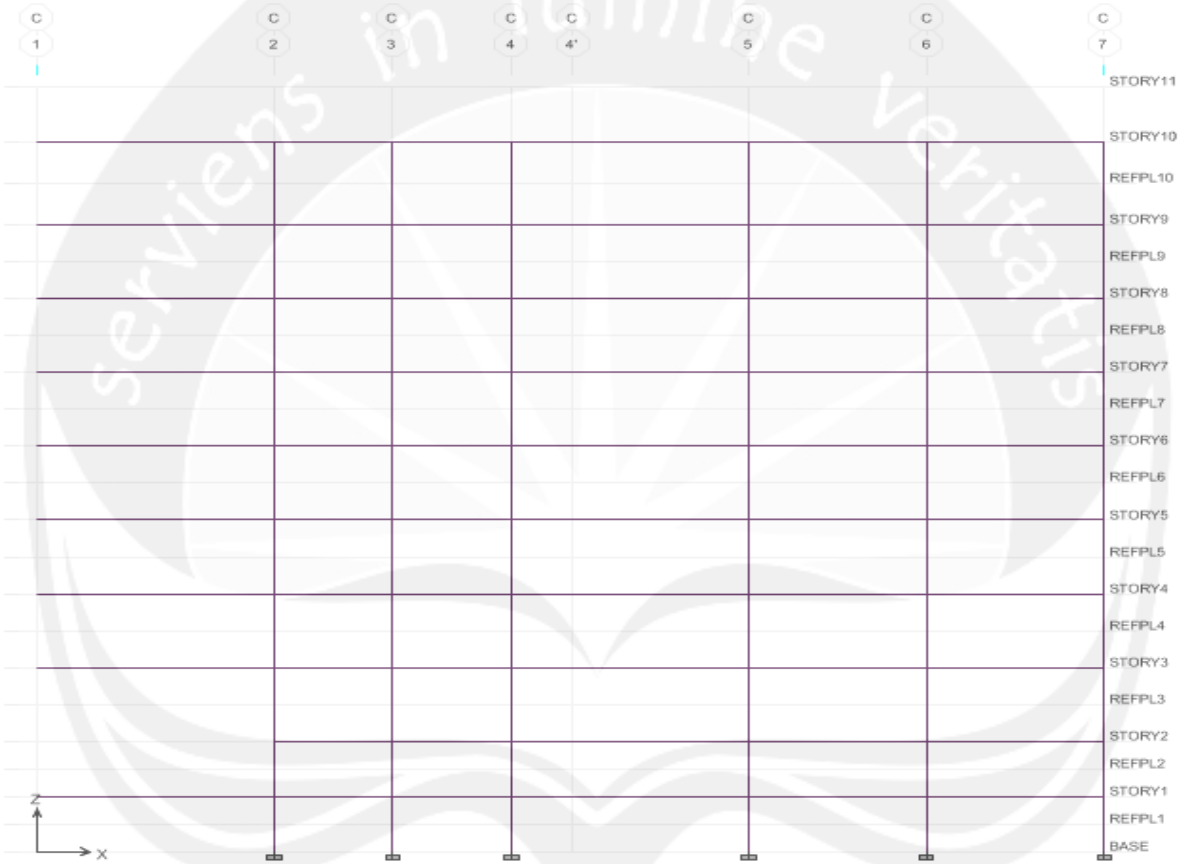
Z

DENAH POT. 2-2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STORY3
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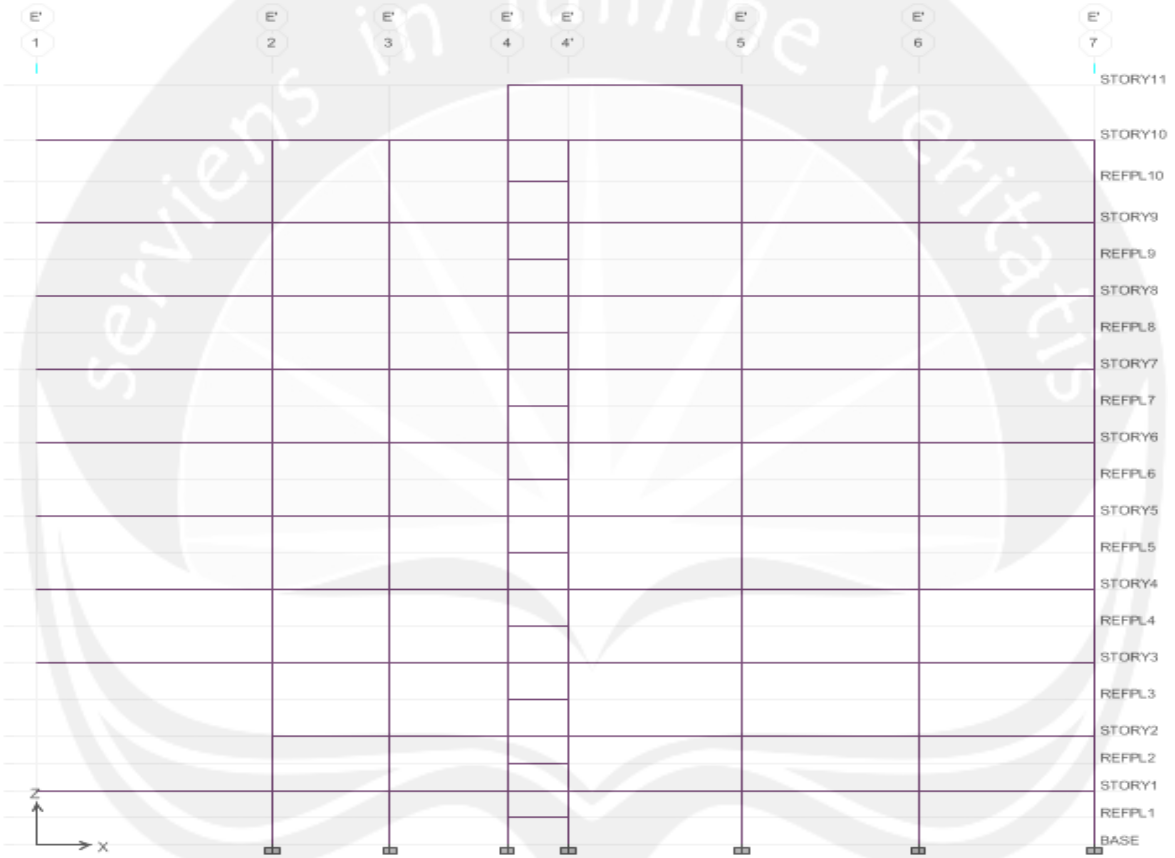
STORY1
REFPL1
BASE
Z
X

DENAH POT. C-C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REFPL1
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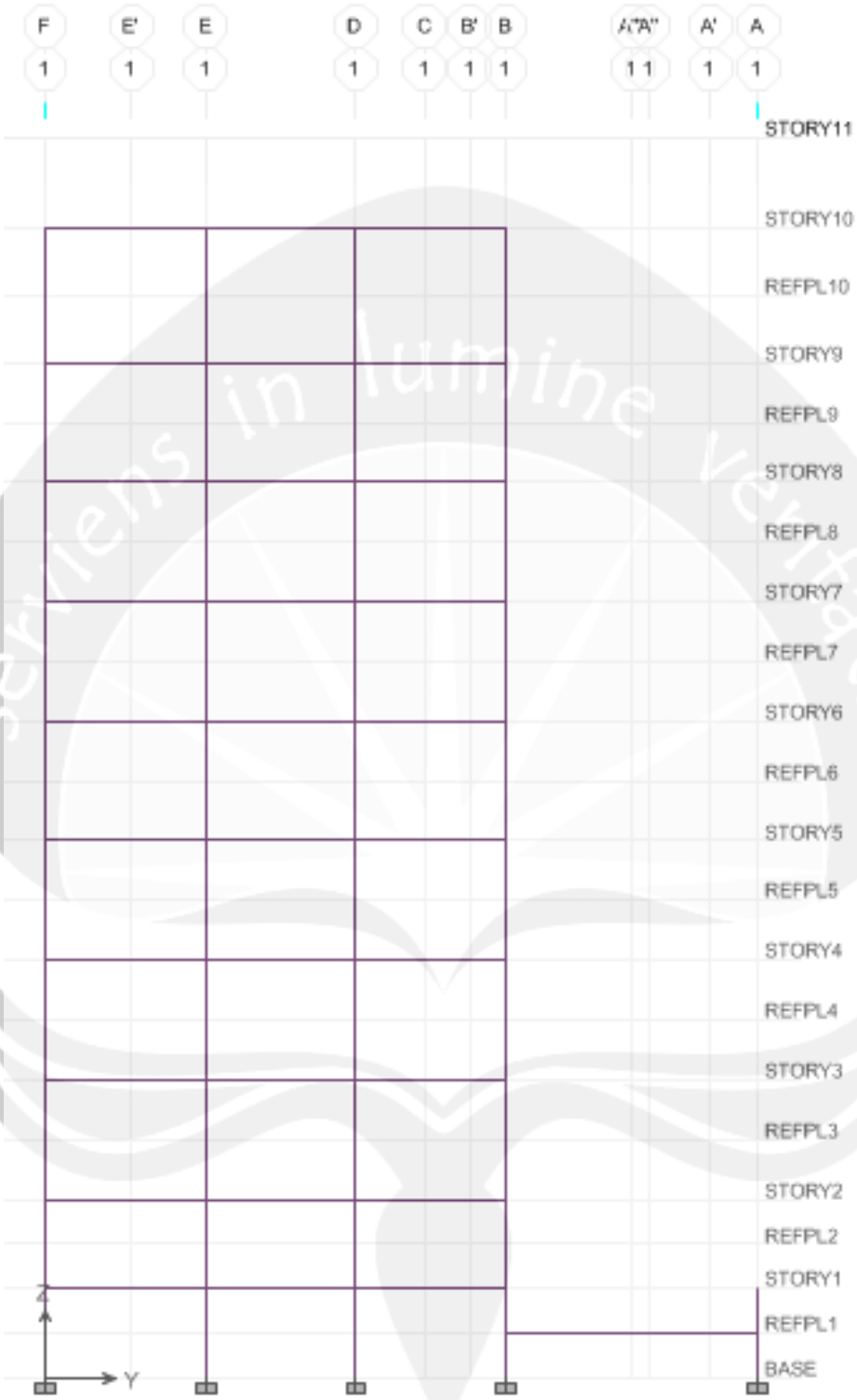
Z
X

DENAH POT. E'-E'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REFPL1
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DENAH POT. 1-1

TABEL OUTPUT MASSA DAN BERAT GEDUNG

Story	Diaphragm	MassX	MassY	XCM	YCM	CumMassX	CumMassY	XCCM	YCCM	XCR	YCR
STORY1	D1	726.8267	726.8267	22.915	10.643	726.8267	726.8267	22.915	10.64	19.56	12.35
STORY2	D2	419.8245	419.8245	24.438	7.174	419.8245	419.8245	24.438	7.174	18.37	10.49
STORY3	D3	493.2905	493.2905	21.809	7.26	493.2905	493.2905	21.809	7.26	17.49	9.156
STORY4	D4	480.8149	480.8149	21.858	7.238	480.8149	480.8149	21.858	7.238	16.97	8.658
STORY5	D5	470.3501	470.3501	21.907	7.214	470.3501	470.3501	21.907	7.214	16.81	8.417
STORY6	D6	470.3501	470.3501	21.907	7.214	470.3501	470.3501	21.907	7.214	16.75	8.296
STORY7	D7	470.3501	470.3501	21.907	7.214	470.3501	470.3501	21.907	7.214	16.73	8.225
STORY8	D8	459.9682	459.9682	21.953	7.188	459.9682	459.9682	21.953	7.188	16.72	8.178
STORY9	D9	454.8637	454.8637	21.981	7.174	454.8637	454.8637	21.981	7.174	16.82	8.139
STORY10	D10	437.3538	437.3538	22.238	7.188	437.3538	437.3538	22.238	7.188	16.99	8.116
STORY11	D11	42.3536	42.3536	26.246	5.518	42.3536	42.3536	26.246	5.518	23.17	6.194

BERAT W Total Gedung

Story	Diaphragm	m = W/9.81	W=m.9.81	
STORY1	D1	726.8267	**7130.17**	KN
STORY2	D2	419.8245	**4118.478**	KN
STORY3	D3	493.2905	**4839.18**	KN
STORY4	D4	480.8149	**4716.794**	KN
STORY5	D5	470.3501	**4614.134**	KN
STORY6	D6	470.3501	**4614.134**	KN
STORY7	D7	470.3501	**4614.134**	KN
STORY8	D8	459.9682	**4512.288**	KN
STORY9	D9	454.8637	**4462.213**	KN
STORY10	D10	437.3538	**4290.441**	KN
STORY11	D11	42.3536	**415.4888**	KN
		Wtotal	**48327.46**	KN

TABEL OUTPTUT PERIODE WAKTU GEDUNG

Spec	Mode	Period	DampRatio	SpecFactor	U1	U2	U3
EX	1	**1.631803**	0.05	1	0.389559	0	0
EX	2	1.480849	0.05	1	0.428794	0	0
EX	3	1.12806	0.05	1	0.563693	0	0
EX	4	0.540678	0.05	1	0.634511	0	0
EX	5	0.495661	0.05	1	0.634511	0	0
EX	6	0.382713	0.05	1	0.634511	0	0
EX	7	0.307755	0.05	1	0.634511	0	0
EX	8	0.286122	0.05	1	0.634511	0	0
EX	9	0.224251	0.05	1	0.634511	0	0
EX	10	0.20376	0.05	1	0.634511	0	0
EX	11	0.189991	0.05	1	0.615448	0	0
EX	12	0.151096	0.05	1	0.541369	0	0
EX	13	0.147243	0.05	1	0.534029	0	0
EX	14	0.137908	0.05	1	0.51625	0	0
EX	15	0.114895	0.05	1	0.47242	0	0
EX	16	0.111466	0.05	1	0.465888	0	0
EX	17	0.109963	0.05	1	0.463026	0	0
EX	18	0.105054	0.05	1	0.453675	0	0
EX	19	0.100515	0.05	1	0.44503	0	0
EX	20	0.090195	0.05	1	0.425375	0	0
EX	21	0.088201	0.05	1	0.421577	0	0
EX	22	0.086792	0.05	1	0.418894	0	0
EY	1	1.631803	0.05	1	0	0.460388	0
EY	2	1.480849	0.05	1	0	0.506756	0
EY	3	1.12806	0.05	1	0	0.666182	0
EY	4	0.540678	0.05	1	0	0.749876	0
EY	5	0.495661	0.05	1	0	0.749876	0
EY	6	0.382713	0.05	1	0	0.749876	0
EY	7	0.307755	0.05	1	0	0.749876	0
EY	8	0.286122	0.05	1	0	0.749876	0
EY	9	0.224251	0.05	1	0	0.749876	0
EY	10	0.20376	0.05	1	0	0.749876	0
EY	11	0.189991	0.05	1	0	0.727348	0
EY	12	0.151096	0.05	1	0	0.639799	0
EY	13	0.147243	0.05	1	0	0.631125	0
EY	14	0.137908	0.05	1	0	0.610114	0
EY	15	0.114895	0.05	1	0	0.558314	0
EY	16	0.111466	0.05	1	0	0.550595	0
EY	17	0.109963	0.05	1	0	0.547212	0
EY	18	0.105054	0.05	1	0	0.536161	0
EY	19	0.100515	0.05	1	0	0.525945	0
EY	20	0.090195	0.05	1	0	0.502715	0
EY	21	0.088201	0.05	1	0	0.498227	0
EY	22	0.086792	0.05	1	0	0.495057	0

T =	**1.6318**	<	syarat w3 n x 0.19 =	**2.090**	ok
C =	0.30641				
I =	1				
Wtotal =	48327.5				
V1 =					
C.I.Wtot/R =	1742.12				
0.8 V1 =	**1393.69**				
		> 0.8			
V dinamis X =	**1484.83**	V1	ok	0.93862	11
		> 0.8			
V dinamis Y =	**1401.53**	V1	ok	0.90481	13

Tabel Out Put Gaya Geser

Spec	Mode	Dir	F1	F2	F3	M1	M2	M3
EX	1	U1	51.19	224.49	0	-6117.47	1378.865	4590.693
EX	2	U1	1405.98	-304.58	0	8328.587	38060.01	-16843.9
EX	3	U1	14.4	76.66	0	-2070.85	403.744	1582.703
EX	4	U1	14.11	59.24	0	26.965	-36.765	1185.279
EX	5	U1	292.03	-70.99	0	-65.488	-439.947	-3745.18
EX	6	U1	2.18	12.21	0	6.454	1.147	249.897
EX	7	U1	9.44	33.23	0	-207.406	56.888	699.678
EX	8	U1	135.28	-38.08	0	244.386	883.683	-1913.02
EX	9	U1	0.96	5.11	0	-30.911	9.684	109.312
EX	10	U1	7.66	25.9	0	-61.885	11.859	528.695
EX	11	U1	91.77	-28.42	0	60.085	208.703	-1415.46
EX	12	U1	0.25	1.4	0	-2.428	1.115	28.49
EX	13	U1	6.25	21.01	0	-69.552	19.707	457.526
EX	14	U1	67.13	-22.79	0	77.417	241.595	-1135.92
EX	15	U1	4.94	10.64	0	-13.374	1.402	195.946
EX	16	U1	0.9	5.91	0	-14.783	4.727	134.415
EX	17	U1	26.7	-11.71	0	15.76	40.861	-559.211
EX	18	U1	27.34	-2.76	0	-14.403	63.42	-270.591
EX	19	U1	14.02	-6.84	0	32.145	42.654	-330.963
EX	20	U1	2.47	8.68	0	-20.997	5.778	188.043
EX	21	U1	3.62	3.88	0	-9.281	11.578	61.676
EX	22	U1	0.01	0.43	0	-0.547	-0.047	9.383
EX	All	All	**1484.83**	285.13	0	7508.775	38851.51	15447.26
EY	1	U2	265.31	1163.45	0	-31704	7146.023	23791.45
EY	2	U2	-359.96	77.98	0	-2132.26	-9743.99	4312.322
EY	3	U2	90.6	482.46	0	-13032.5	2540.891	9960.451
EY	4	U2	70.02	293.97	0	133.8	-182.429	5881.368
EY	5	U2	-83.9	20.39	0	18.814	126.392	1075.948
EY	6	U2	14.43	80.66	0	42.655	7.58	1651.461
EY	7	U2	39.27	138.26	0	-863.002	236.706	2911.319
EY	8	U2	-45	12.67	0	-81.301	-293.977	636.409
EY	9	U2	6.04	32.3	0	-195.281	61.181	690.587
EY	10	U2	30.61	103.52	0	-247.318	47.393	2112.884

EY	11	U2	-33.59	10.4	0	-21.99	-76.381	518.028
EY	12	U2	1.66	9.44	0	-16.361	7.509	191.956
EY	13	U2	24.83	83.46	0	-276.32	78.294	1817.691
EY	14	U2	-26.93	9.15	0	-31.065	-96.944	455.804
EY	15	U2	12.58	27.11	0	-34.055	3.571	498.967
EY	16	U2	6.99	46.09	0	-115.239	36.852	1047.815
EY	17	U2	-13.84	6.07	0	-8.171	-21.184	289.919
EY	18	U2	-3.27	0.33	0	1.72	-7.574	32.315
EY	19	U2	-8.08	3.94	0	-18.521	-24.576	190.693
EY	20	U2	10.26	36.1	0	-87.296	24.022	781.782
EY	21	U2	4.58	4.9	0	-11.734	14.638	77.977
EY	22	U2	0.5	15.05	0	-19.307	-1.655	331.386
EY	All	All	336.97	**1401.53**	0	36221.01	8807.471	30424.34

TABEL OUTPUT BALOK

Story	Beam	dimensi blk	Load	Loc	P	V2	V3	T	M2	M3
STORY10	B11	B400x600	COMB19 MAX	0	0	68.43	0	6.887	0	6.362
STORY10	B11	B400x600	COMB19 MAX	1.295	0	87.81	0	6.887	0	-57.68
STORY10	B11	B400x600	COMB19 MAX	2.59	0	111.82	0	6.887	0	-138.3
STORY10	B11	B400x600	COMB19 MIN	0	0	41.58	0	-1.79	0	2.656
STORY10	B11	B400x600	COMB19 MIN	1.295	0	53.91	0	-1.79	0	-92.71
STORY10	B11	B400x600	COMB19 MIN	2.59	0	68.76	0	-1.79	0	-224.1
STORY9	B11	B400x600	COMB19 MAX	0	0	158.04	0	6.871	0	4.397
STORY9	B11	B400x600	COMB19 MAX	1.295	0	182.98	0	6.871	0	-135.1
STORY9	B11	B400x600	COMB19 MAX	2.59	0	214.96	0	6.871	0	-293.5
STORY9	B11	B400x600	COMB19 MIN	0	0	99.46	0	-9.76	0	0.856
STORY9	B11	B400x600	COMB19 MIN	1.295	0	112.95	0	-9.76	0	-213.5
STORY9	B11	B400x600	COMB19 MIN	2.59	0	129.44	0	-9.76	0	-474.4
STORY8	B11	B400x600	COMB19 MAX	0	0	149.8	0	10.07	0	4.522
STORY8	B11	B400x600	COMB19 MAX	1.27	0	173.95	0	10.07	0	-124.1
STORY8	B11	B400x600	COMB19 MAX	2.54	0	206.07	0	10.07	0	-270.3
STORY8	B11	B400x600	COMB19 MIN	0	0	92.71	0	-16.25	0	0.443
STORY8	B11	B400x600	COMB19 MIN	1.27	0	105.81	0	-16.25	0	-198.6
STORY8	B11	B400x600	COMB19 MIN	2.54	0	122.3	0	-16.25	0	-442.9
STORY7	B11	B400x600	COMB19 MAX	0	0	149.46	0	13.19	0	4.504
STORY7	B11	B400x600	COMB19 MAX	1.27	0	173.61	0	13.19	0	-123.9
STORY7	B11	B400x600	COMB19 MAX	2.54	0	205.73	0	13.19	0	-269.4
STORY7	B11	B400x600	COMB19 MIN	0	0	92.18	0	-20.76	0	-0.004
STORY7	B11	B400x600	COMB19 MIN	1.27	0	105.27	0	-20.76	0	-198.5
STORY7	B11	B400x600	COMB19 MIN	2.54	0	121.77	0	-20.76	0	-442.3
STORY6	B11	B400x600	COMB19 MAX	0	0	147.1	0	16.8	0	4.105
STORY6	B11	B400x600	COMB19 MAX	1.27	0	171.25	0	16.8	0	-122.5
STORY6	B11	B400x600	COMB19 MAX	2.54	0	203.37	0	16.8	0	-265.8
STORY6	B11	B400x600	COMB19 MIN	0	0	90.5	0	-23.48	0	-0.76
STORY6	B11	B400x600	COMB19 MIN	1.27	0	103.59	0	-23.48	0	-196.2
STORY6	B11	B400x600	COMB19 MIN	2.54	0	120.09	0	-23.48	0	-437.1
STORY5	B11	B400x600	COMB19 MAX	0	0	144.09	0	19.86	0	3.471
STORY5	B11	B400x600	COMB19 MAX	1.27	0	168.24	0	19.86	0	-120.7
STORY5	B11	B400x600	COMB19 MAX	2.54	0	200.37	0	19.86	0	-261.5
STORY5	B11	B400x600	COMB19 MIN	0	0	88.5	0	-25.57	0	-1.572
STORY5	B11	B400x600	COMB19 MIN	1.27	0	101.59	0	-25.57	0	-193.4
STORY5	B11	B400x600	COMB19 MIN	2.54	0	118.09	0	-25.57	0	-430.4
STORY4	B11	B400x600	COMB19 MAX	0	0	141.93	0	21.85	0	2.563
STORY4	B11	B400x600	COMB19 MAX	0.996	0	158.24	0	21.85	0	-92.38
STORY4	B11	B400x600	COMB19 MAX	2.49	0	197.5	0	21.85	0	-252.9
STORY4	B11	B400x600	COMB19 MIN	0	0	87.16	0	-28.19	0	-2.316
STORY4	B11	B400x600	COMB19 MIN	0.996	0	96.31	0	-28.19	0	-147.3
STORY4	B11	B400x600	COMB19 MIN	2.49	0	116.34	0	-28.19	0	-416.1
STORY3	B11	B400x600	COMB19 MAX	0	0	139.52	0	22.43	0	1.976
STORY3	B11	B400x600	COMB19 MAX	0.996	0	155.83	0	22.43	0	-91.3
STORY3	B11	B400x600	COMB19 MAX	2.49	0	195.09	0	22.43	0	-249.7

STORY3	B11	B400x600	COMB19 MIN	0	0	85.8	0	-28.53	0	-2.584
STORY3	B11	B400x600	COMB19 MIN	0.996	0	94.95	0	-28.53	0	-145.5
STORY3	B11	B400x600	COMB19 MIN	2.49	0	114.98	0	-28.53	0	-410.7
STORY2	B11	B400x600	COMB19 MAX	0	0	140.93	0	18.4	0	2.968
STORY2	B11	B400x600	COMB19 MAX	0.996	0	157.24	0	18.4	0	-91.87
STORY2	B11	B400x600	COMB19 MAX	2.49	0	196.5	0	18.4	0	-250.7
STORY2	B11	B400x600	COMB19 MIN	0	0	86.25	0	-24.23	0	-2.092
STORY2	B11	B400x600	COMB19 MIN	0.996	0	95.39	0	-24.23	0	-144.9
STORY2	B11	B400x600	COMB19 MIN	2.49	0	115.43	0	-24.23	0	-412.2
STORY1	B11	B400x600	COMB19 MAX	0	0	132.04	0	12.38	0	-3.454
STORY1	B11	B400x600	COMB19 MAX	0.996	0	151.57	0	12.38	0	-82.1
STORY1	B11	B400x600	COMB19 MAX	2.49	0	200.66	0	12.38	0	-224.4
STORY1	B11	B400x600	COMB19 MIN	0	0	73.43	0	-14.62	0	-6.795
STORY1	B11	B400x600	COMB19 MIN	0.996	0	83.21	0	-14.62	0	-145.4
STORY1	B11	B400x600	COMB19 MIN	2.49	0	105.16	0	-14.62	0	-412.6
STORY10	B66	B400x800	COMB19 MAX	0.3	0	-118.6	0	20.5	0	-176.4
STORY10	B66	B400x800	COMB19 MAX	4.875	0	36.19	0	-7.169	0	328.7
STORY10	B66	B400x800	COMB19 MAX	9.45	0	165.36	0	-7.169	0	-44.5
STORY10	B66	B400x800	COMB19 MIN	0.3	0	-211.9	0	8.815	0	-383.1
STORY10	B66	B400x800	COMB19 MIN	4.875	0	7.8	0	-18.22	0	197
STORY10	B66	B400x800	COMB19 MIN	9.45	0	90.49	0	-18.22	0	-182.9
STORY9	B66	B400x800	COMB19 MAX	0.3	0	-119	0	13.8	0	-206.9
STORY9	B66	B400x800	COMB19 MAX	4.875	0	30.58	0	4.367	0	312.3
STORY9	B66	B400x800	COMB19 MAX	9.45	0	200.25	0	4.367	0	-18.78
STORY9	B66	B400x800	COMB19 MIN	0.3	0	-267.9	0	-1.902	0	-578.2
STORY9	B66	B400x800	COMB19 MIN	4.875	0	-120.2	0	-1.902	0	148.5
STORY9	B66	B400x800	COMB19 MIN	9.45	0	78.2	0	-10.49	0	-289.4
STORY8	B66	B400x800	COMB19 MAX	0.35	0	-105.9	0	21.01	0	-141.6
STORY8	B66	B400x800	COMB19 MAX	4.875	0	37.23	0	6.161	0	310.8
STORY8	B66	B400x800	COMB19 MAX	9.4	0	198.2	0	6.161	0	37.53
STORY8	B66	B400x800	COMB19 MIN	0.35	0	-262.4	0	-3.13	0	-586.1
STORY8	B66	B400x800	COMB19 MIN	4.875	0	-124.9	0	-3.13	0	150.7
STORY8	B66	B400x800	COMB19 MIN	9.4	0	66.72	0	-16.82	0	-309.7
STORY7	B66	B400x800	COMB19 MAX	0.35	0	-97.86	0	24.15	0	-108.7
STORY7	B66	B400x800	COMB19 MAX	4.875	0	43.86	0	9.205	0	303.9
STORY7	B66	B400x800	COMB19 MAX	9.4	0	204.84	0	9.205	0	67.23
STORY7	B66	B400x800	COMB19 MIN	0.35	0	-265.4	0	-6.072	0	-617.9
STORY7	B66	B400x800	COMB19 MIN	4.875	0	-130.6	0	-6.072	0	147.2
STORY7	B66	B400x800	COMB19 MIN	9.4	0	59.42	0	-19.78	0	-345.7
STORY6	B66	B400x800	COMB19 MAX	0.35	0	-89.55	0	26.43	0	-72.85
STORY6	B66	B400x800	COMB19 MAX	4.875	0	50.19	0	11.91	0	301.6
STORY6	B66	B400x800	COMB19 MAX	9.4	0	211.16	0	11.91	0	99.01
STORY6	B66	B400x800	COMB19 MIN	0.35	0	-270.5	0	-8.916	0	-643.3
STORY6	B66	B400x800	COMB19 MIN	4.875	0	-135.7	0	-8.916	0	145.2
STORY6	B66	B400x800	COMB19 MIN	9.4	0	52.03	0	-22.21	0	-376.3
STORY5	B66	B400x800	COMB19 MAX	0.35	0	-82.11	0	28.16	0	-41.92
STORY5	B66	B400x800	COMB19 MAX	4.875	0	55.27	0	14.16	0	297.6
STORY5	B66	B400x800	COMB19 MAX	9.4	0	216.24	0	14.16	0	124.4
STORY5	B66	B400x800	COMB19 MIN	0.35	0	-273.8	0	-11.37	0	-662.1
STORY5	B66	B400x800	COMB19 MIN	4.875	0	-46.73	0	-24.16	0	142.4

STORY5	B66	B400x800	COMB19 MIN	9.4	0	45.79	0	-24.16	0	-402.9
STORY4	B66	B400x800	COMB19 MAX	0.4	0	-76.08	0	30.03	0	-16.2
STORY4	B66	B400x800	COMB19 MAX	4.875	0	57.97	0	16.03	0	290.8
STORY4	B66	B400x800	COMB19 MAX	9.35	0	218.19	0	16.03	0	138.3
STORY4	B66	B400x800	COMB19 MIN	0.4	0	-272.2	0	-13.3	0	-650.4
STORY4	B66	B400x800	COMB19 MIN	4.875	0	-49.95	0	-25.94	0	139.6
STORY4	B66	B400x800	COMB19 MIN	9.35	0	42.08	0	-25.94	0	-410
STORY3	B66	B400x800	COMB19 MAX	0.4	0	-74.38	0	30.41	0	-13.55
STORY3	B66	B400x800	COMB19 MAX	4.875	0	57.83	0	16.31	0	282
STORY3	B66	B400x800	COMB19 MAX	9.35	0	218.05	0	16.31	0	128.7
STORY3	B66	B400x800	COMB19 MIN	0.4	0	-267.5	0	-13.85	0	-637.5
STORY3	B66	B400x800	COMB19 MIN	4.875	0	-48.94	0	-26.37	0	134.8
STORY3	B66	B400x800	COMB19 MIN	9.35	0	43.09	0	-26.37	0	-417.2
STORY2	B66	B400x800	COMB19 MAX	0.4	0	-177.8	0	49.71	0	-152.1
STORY2	B66	B400x800	COMB19 MAX	4.947	0	27.54	0	-1.389	0	325.5
STORY2	B66	B400x800	COMB19 MAX	9.35	0	327.43	0	37.74	0	-24.64
STORY2	B66	B400x800	COMB19 MIN	0.4	0	-388.2	0	-27.59	0	-727.2
STORY2	B66	B400x800	COMB19 MIN	4.947	0	-69.33	0	-4.25	0	178.3
STORY2	B66	B400x800	COMB19 MIN	9.35	0	136.55	0	-38.64	0	-534.8
STORY1	B66	B400x800	COMB19 MAX	0.4	0	-102	0	19.47	0	-103.3
STORY1	B66	B400x800	COMB19 MAX	4.875	0	55.94	0	5.544	0	351.9
STORY1	B66	B400x800	COMB19 MAX	9.35	0	271.73	0	5.544	0	-56.84
STORY1	B66	B400x800	COMB19 MIN	0.4	0	-284.7	0	-5.429	0	-512.6
STORY1	B66	B400x800	COMB19 MIN	4.875	0	-10.12	0	-16.16	0	149.8
STORY1	B66	B400x800	COMB19 MIN	9.35	0	91.46	0	-16.16	0	-448.6
STORY10	B108	B300x500	COMB19 MAX	0.3	0	-37.22	0	2.547	0	-33.89
STORY10	B108	B300x500	COMB19 MAX	1.1	0	-31.68	0	2.547	0	-6.274
STORY10	B108	B300x500	COMB19 MAX	1.5	0	-29.86	0	2.547	0	10.27
STORY10	B108	B300x500	COMB19 MIN	0.3	0	-61.07	0	-4.645	0	-56.71
STORY10	B108	B300x500	COMB19 MIN	1.1	0	-52.15	0	-4.645	0	-11.51
STORY10	B108	B300x500	COMB19 MIN	1.5	0	-49.44	0	-4.645	0	5.179
STORY9	B108	B300x500	COMB19 MAX	0.3	0	-92.09	0	10.44	0	-95.72
STORY9	B108	B300x500	COMB19 MAX	1.1	0	-85.95	0	10.44	0	-24.24
STORY9	B108	B300x500	COMB19 MAX	1.5	0	-84.02	0	10.44	0	14.31
STORY9	B108	B300x500	COMB19 MIN	0.3	0	-147.5	0	-5.357	0	-155.1
STORY9	B108	B300x500	COMB19 MIN	1.1	0	-138	0	-5.357	0	-40.77
STORY9	B108	B300x500	COMB19 MIN	1.5	0	-135	0	-5.357	0	7.884
STORY8	B108	B300x500	COMB19 MAX	0.35	0	-86.33	0	13.56	0	-84.81
STORY8	B108	B300x500	COMB19 MAX	1.117	0	-80.37	0	13.56	0	-20.69
STORY8	B108	B300x500	COMB19 MAX	1.5	0	-78.55	0	13.56	0	14.18
STORY8	B108	B300x500	COMB19 MIN	0.35	0	-140.2	0	-9.838	0	-141.1
STORY8	B108	B300x500	COMB19 MIN	1.117	0	-131	0	-9.838	0	-37.1
STORY8	B108	B300x500	COMB19 MIN	1.5	0	-128.1	0	-9.838	0	6.231
STORY7	B108	B300x500	COMB19 MAX	0.35	0	-85.74	0	16.8	0	-83.74
STORY7	B108	B300x500	COMB19 MAX	1.117	0	-79.79	0	16.8	0	-20.06
STORY7	B108	B300x500	COMB19 MAX	1.5	0	-77.96	0	16.8	0	14.5
STORY7	B108	B300x500	COMB19 MIN	0.35	0	-140.5	0	-12.81	0	-141.8
STORY7	B108	B300x500	COMB19 MIN	1.117	0	-131.2	0	-12.81	0	-38.12
STORY7	B108	B300x500	COMB19 MIN	1.5	0	-128.4	0	-12.81	0	5.323
STORY6	B108	B300x500	COMB19 MAX	0.35	0	-83.98	0	18.84	0	-81.5

STORY6	B108	B300x500	COMB19 MAX	1.117	0	-78.02	0	18.84	0	-19.19
STORY6	B108	B300x500	COMB19 MAX	1.5	0	-76.2	0	18.84	0	14.36
STORY6	B108	B300x500	COMB19 MIN	0.35	0	-138.9	0	-15.96	0	-140.7
STORY6	B108	B300x500	COMB19 MIN	1.117	0	-129.7	0	-15.96	0	-39.32
STORY6	B108	B300x500	COMB19 MIN	1.5	0	-126.8	0	-15.96	0	4.168
STORY5	B108	B300x500	COMB19 MAX	0.35	0	-82.12	0	20.32	0	-79.3
STORY5	B108	B300x500	COMB19 MAX	1.117	0	-76.17	0	20.32	0	-18.45
STORY5	B108	B300x500	COMB19 MAX	1.5	0	-74.35	0	20.32	0	13.99
STORY5	B108	B300x500	COMB19 MIN	0.35	0	-137	0	-18.62	0	-139.5
STORY5	B108	B300x500	COMB19 MIN	1.117	0	-127.7	0	-18.62	0	-40.41
STORY5	B108	B300x500	COMB19 MIN	1.5	0	-124.9	0	-18.62	0	3.007
STORY4	B108	B300x500	COMB19 MAX	0.4	0	-81.05	0	21.74	0	-74.62
STORY4	B108	B300x500	COMB19 MAX	1.133	0	-75.3	0	21.74	0	-17.15
STORY4	B108	B300x500	COMB19 MAX	1.5	0	-73.58	0	21.74	0	13.37
STORY4	B108	B300x500	COMB19 MIN	0.4	0	-135.7	0	-20.56	0	-133.7
STORY4	B108	B300x500	COMB19 MIN	1.133	0	-126.8	0	-20.56	0	-39.61
STORY4	B108	B300x500	COMB19 MIN	1.5	0	-124.1	0	-20.56	0	1.942
STORY3	B108	B300x500	COMB19 MAX	0.4	0	-80.06	0	21.59	0	-73.82
STORY3	B108	B300x500	COMB19 MAX	1.133	0	-74.32	0	21.59	0	-17.09
STORY3	B108	B300x500	COMB19 MAX	1.5	0	-72.6	0	21.59	0	12.75
STORY3	B108	B300x500	COMB19 MIN	0.4	0	-133.9	0	-21	0	-132.3
STORY3	B108	B300x500	COMB19 MIN	1.133	0	-124.9	0	-21	0	-39.7
STORY3	B108	B300x500	COMB19 MIN	1.5	0	-122.3	0	-21	0	1.427
STORY2	B108	B300x500	COMB19 MAX	0.4	0	-90.1	0	17.29	0	-80.99
STORY2	B108	B300x500	COMB19 MAX	1.133	0	-77.76	0	17.29	0	-19.16
STORY2	B108	B300x500	COMB19 MAX	1.5	0	-72.74	0	17.29	0	11.01
STORY2	B108	B300x500	COMB19 MIN	0.4	0	-148.3	0	-17.36	0	-139.9
STORY2	B108	B300x500	COMB19 MIN	1.133	0	-129.1	0	-17.36	0	-40.46
STORY2	B108	B300x500	COMB19 MIN	1.5	0	-121.3	0	-17.36	0	1.282
STORY1	B131	B400x600	COMB19 MAX	0.4	0	-117.5	0	34.9	0	-204.1
STORY1	B131	B400x600	COMB19 MAX	6.443	0	5.32	0	-2.668	0	294.9
STORY1	B131	B400x600	COMB19 MAX	10.31	0	153.71	0	-4.518	0	-17.79
STORY1	B131	B400x600	COMB19 MIN	0.4	0	-296.3	0	-5.114	0	-561.1
STORY1	B131	B400x600	COMB19 MIN	6.443	0	-4.58	0	-13.12	0	116.8
STORY1	B131	B400x600	COMB19 MIN	10.31	0	60.76	0	-15.35	0	-76.62
STORY10	B100	B400x600	COMB19 MAX	0.3	0	-12.62	0	-0.575	0	-4.62
STORY10	B100	B400x600	COMB19 MAX	2.6	0	19.44	0	-0.575	0	-3.13
STORY10	B100	B400x600	COMB19 MAX	4.9	0	62.55	0	-0.575	0	-18.8
STORY10	B100	B400x600	COMB19 MIN	0.3	0	-49.18	0	-3.45	0	-74.5
STORY10	B100	B400x600	COMB19 MIN	2.6	0	-9.5	0	-3.45	0	-6.83
STORY10	B100	B400x600	COMB19 MIN	4.9	0	19.13	0	-3.45	0	-106
STORY9	B100	B400x600	COMB19 MAX	0.3	0	2.36	0	-3.533	0	44.3
STORY9	B100	B400x600	COMB19 MAX	2.6	0	36.62	0	-3.533	0	14.6
STORY9	B100	B400x600	COMB19 MAX	4.9	0	91.64	0	-3.533	0	10.4
STORY9	B100	B400x600	COMB19 MIN	0.3	0	-72.34	0	-9.272	0	-99.6
STORY9	B100	B400x600	COMB19 MIN	2.6	0	-19.57	0	-9.272	0	6.09
STORY9	B100	B400x600	COMB19 MIN	4.9	0	12.43	0	-9.272	0	-144
STORY8	B100	B400x600	COMB19 MAX	0.35	0	19.48	0	0.405	0	84.1
STORY8	B100	B400x600	COMB19 MAX	2.35	0	47.08	0	0.405	0	29.4
STORY8	B100	B400x600	COMB19 MAX	4.85	0	109.5	0	0.405	0	42.2

STORY8	B100	B400x600	COMB19 MIN	0.35	0	-82.86	0	-4.81	0	-116
STORY8	B100	B400x600	COMB19 MIN	2.35	0	-36.89	0	-4.81	0	0.36
STORY8	B100	B400x600	COMB19 MIN	4.85	0	-0.77	0	-4.81	0	-177
STORY7	B100	B400x600	COMB19 MAX	0.35	0	31.78	0	1.032	0	114
STORY7	B100	B400x600	COMB19 MAX	2.35	0	59.74	0	1.032	0	36.2
STORY7	B100	B400x600	COMB19 MAX	4.85	0	122.1	0	1.032	0	70
STORY7	B100	B400x600	COMB19 MIN	0.35	0	-93.88	0	-4.484	0	-138
STORY7	B100	B400x600	COMB19 MIN	2.35	0	-48.28	0	-4.484	0	-0.26
STORY7	B100	B400x600	COMB19 MIN	4.85	0	-12.16	0	-4.484	0	-201
STORY6	B100	B400x600	COMB19 MAX	0.35	0	40.41	0	1.52	0	133
STORY6	B100	B400x600	COMB19 MAX	2.35	0	67.52	0	1.52	0	37.8
STORY6	B100	B400x600	COMB19 MAX	4.85	0	129.8	0	1.52	0	96.8
STORY6	B100	B400x600	COMB19 MIN	0.35	0	-106.8	0	-4.906	0	-167
STORY6	B100	B400x600	COMB19 MIN	2.35	0	-60.37	0	-4.906	0	-3.42
STORY6	B100	B400x600	COMB19 MIN	4.85	0	-24.15	0	-4.906	0	-219
STORY5	B100	B400x600	COMB19 MAX	0.35	0	46.59	0	1.881	0	147
STORY5	B100	B400x600	COMB19 MAX	2.35	0	73.7	0	1.881	0	38.7
STORY5	B100	B400x600	COMB19 MAX	4.85	0	134.7	0	1.881	0	120
STORY5	B100	B400x600	COMB19 MIN	0.35	0	-118.6	0	-5.365	0	-194
STORY5	B100	B400x600	COMB19 MIN	2.35	0	-72.15	0	-5.365	0	-6.1
STORY5	B100	B400x600	COMB19 MIN	4.85	0	-34.64	0	-5.365	0	-230
STORY4	B100	B400x600	COMB19 MAX	0.4	0	53.28	0	2.425	0	161
STORY4	B100	B400x600	COMB19 MAX	2.36	0	80.08	0	2.425	0	43.7
STORY4	B100	B400x600	COMB19 MAX	4.8	0	140	0	2.425	0	138
STORY4	B100	B400x600	COMB19 MIN	0.4	0	-126.3	0	-4.28	0	-203
STORY4	B100	B400x600	COMB19 MIN	2.36	0	-80.29	0	-4.28	0	-5.65
STORY4	B100	B400x600	COMB19 MIN	4.8	0	-43.01	0	-4.28	0	-233
STORY3	B100	B400x600	COMB19 MAX	0.4	0	50.53	0	2.372	0	154
STORY3	B100	B400x600	COMB19 MAX	2.84	0	89.45	0	2.372	0	41.6
STORY3	B100	B400x600	COMB19 MAX	4.8	0	135.4	0	2.372	0	146
STORY3	B100	B400x600	COMB19 MIN	0.4	0	-131.2	0	-3.901	0	-213
STORY3	B100	B400x600	COMB19 MIN	2.36	0	-85.16	0	-3.901	0	-5.78
STORY3	B100	B400x600	COMB19 MIN	4.8	0	-46.08	0	-3.901	0	-224
STORY2	B100	B400x600	COMB19 MAX	0.4	0	48.1	0	2.749	0	154
STORY2	B100	B400x600	COMB19 MAX	2.36	0	72.47	0	2.749	0	49.7
STORY2	B100	B400x600	COMB19 MAX	4.8	0	123.3	0	2.749	0	121
STORY2	B100	B400x600	COMB19 MIN	0.4	0	-106.1	0	-2.105	0	-162
STORY2	B100	B400x600	COMB19 MIN	2.84	0	-60.24	0	-2.105	0	1.29
STORY2	B100	B400x600	COMB19 MIN	4.8	0	-36.45	0	-2.105	0	-192
STORY1	B100	B400x600	COMB19 MAX	0.4	0	-6.89	0	-1.515	0	38.8
STORY1	B100	B400x600	COMB19 MAX	2.84	0	39.47	0	-1.515	0	46.5
STORY1	B100	B400x600	COMB19 MAX	4.8	0	103.2	0	-1.515	0	59.4
STORY1	B100	B400x600	COMB19 MIN	0.4	0	-119.2	0	-5.759	0	-155
STORY1	B100	B400x600	COMB19 MIN	2.84	0	-35.16	0	-5.759	0	8.65
STORY1	B100	B400x600	COMB19 MIN	4.8	0	-2	0	-5.759	0	-121
STORY10	B101	B400x600	COMB19 MAX	0.3	0	-31.31	0	17.49	0	-39.1
STORY10	B101	B400x600	COMB19 MAX	3.06	0	4.55	0	17.49	0	12.5
STORY10	B101	B400x600	COMB19 MAX	4.9	0	31.97	0	17.49	0	17.1
STORY10	B101	B400x600	COMB19 MIN	0.3	0	-74.56	0	10.99	0	-127
STORY10	B101	B400x600	COMB19 MIN	3.06	0	-20.37	0	10.99	0	3.27

STORY10	B101	B400x600	COMB19 MIN	4.9	0	5.75	0	10.99	0	-26.9
STORY9	B101	B400x600	COMB19 MAX	0.3	0	-21.21	0	7.913	0	-14
STORY9	B101	B400x600	COMB19 MAX	3.06	0	19.01	0	7.913	0	25.1
STORY9	B101	B400x600	COMB19 MAX	4.9	0	58.22	0	7.913	0	54.8
STORY9	B101	B400x600	COMB19 MIN	0.3	0	-104	0	3.827	0	-179
STORY9	B101	B400x600	COMB19 MIN	2.6	0	-48.91	0	3.827	0	1.19
STORY9	B101	B400x600	COMB19 MIN	4.9	0	-9.21	0	3.827	0	-72.2
STORY8	B101	B400x600	COMB19 MAX	0.35	0	-9.94	0	7.378	0	17.8
STORY8	B101	B400x600	COMB19 MAX	2.85	0	26.24	0	7.378	0	31.1
STORY8	B101	B400x600	COMB19 MAX	4.85	0	65.94	0	7.378	0	102
STORY8	B101	B400x600	COMB19 MIN	0.35	0	-123.9	0	2.91	0	-211
STORY8	B101	B400x600	COMB19 MIN	2.85	0	-61.43	0	2.91	0	2.71
STORY8	B101	B400x600	COMB19 MIN	4.85	0	-27.57	0	2.91	0	-79.9
STORY7	B101	B400x600	COMB19 MAX	0.35	0	1.11	0	6.538	0	44.8
STORY7	B101	B400x600	COMB19 MAX	2.85	0	37.29	0	6.538	0	37.9
STORY7	B101	B400x600	COMB19 MAX	4.85	0	76.37	0	6.538	0	135
STORY7	B101	B400x600	COMB19 MIN	0.35	0	-137.3	0	1.855	0	-237
STORY7	B101	B400x600	COMB19 MIN	2.85	0	-74.76	0	1.855	0	2.09
STORY7	B101	B400x600	COMB19 MIN	4.85	0	-40.27	0	1.855	0	-103
STORY6	B101	B400x600	COMB19 MAX	0.35	0	14.86	0	6.937	0	75.6
STORY6	B101	B400x600	COMB19 MAX	2.85	0	51.04	0	6.937	0	38.5
STORY6	B101	B400x600	COMB19 MAX	4.85	0	91.96	0	6.937	0	146
STORY6	B101	B400x600	COMB19 MIN	0.35	0	-142	0	1.689	0	-249
STORY6	B101	B400x600	COMB19 MIN	2.85	0	-79.5	0	1.689	0	-1.44
STORY6	B101	B400x600	COMB19 MIN	4.85	0	-46.86	0	1.689	0	-134
STORY5	B101	B400x600	COMB19 MAX	0.35	0	27.33	0	7.231	0	104
STORY5	B101	B400x600	COMB19 MAX	2.85	0	63.51	0	7.231	0	38.4
STORY5	B101	B400x600	COMB19 MAX	4.85	0	106.6	0	7.231	0	154
STORY5	B101	B400x600	COMB19 MIN	0.35	0	-143.9	0	1.544	0	-254
STORY5	B101	B400x600	COMB19 MIN	2.85	0	-81.41	0	1.544	0	-4.64
STORY5	B101	B400x600	COMB19 MIN	4.85	0	-50.97	0	1.544	0	-167
STORY4	B101	B400x600	COMB19 MAX	0.4	0	36.4	0	6.291	0	123
STORY4	B101	B400x600	COMB19 MAX	2.84	0	72.07	0	6.291	0	43
STORY4	B101	B400x600	COMB19 MAX	4.8	0	115.3	0	6.291	0	167
STORY4	B101	B400x600	COMB19 MIN	0.4	0	-148.4	0	0.658	0	-254
STORY4	B101	B400x600	COMB19 MIN	2.84	0	-86.75	0	0.658	0	-4.44
STORY4	B101	B400x600	COMB19 MIN	4.8	0	-57.15	0	0.658	0	-179
STORY3	B101	B400x600	COMB19 MAX	0.4	0	40.3	0	5.911	0	133
STORY3	B101	B400x600	COMB19 MAX	2.84	0	75.97	0	5.911	0	44.4
STORY3	B101	B400x600	COMB19 MAX	4.8	0	120.6	0	5.911	0	166
STORY3	B101	B400x600	COMB19 MIN	0.4	0	-145.8	0	0.543	0	-246
STORY3	B101	B400x600	COMB19 MIN	2.84	0	-84.13	0	0.543	0	-4.09
STORY3	B101	B400x600	COMB19 MIN	4.8	0	-55.92	0	0.543	0	-189
STORY2	B101	B400x600	COMB19 MAX	0.4	0	32.88	0	3.517	0	111
STORY2	B101	B400x600	COMB19 MAX	2.84	0	62.97	0	3.517	0	34.9
STORY2	B101	B400x600	COMB19 MAX	4.8	0	101.6	0	3.517	0	132
STORY2	B101	B400x600	COMB19 MIN	0.4	0	-119.1	0	-0.561	0	-197
STORY2	B101	B400x600	COMB19 MIN	2.84	0	-68.26	0	-0.561	0	-4.77
STORY2	B101	B400x600	COMB19 MIN	4.8	0	-42.91	0	-0.561	0	-158
STORY1	B101	B400x600	COMB19 MAX	0.4	0	-2.35	0	3.145	0	49.9

STORY1	B101	B400x600	COMB19 MAX	2.36	0	30.81	0	3.145	0	43.9
STORY1	B101	B400x600	COMB19 MAX	4.8	0	112.7	0	3.145	0	50.2
STORY1	B101	B400x600	COMB19 MIN	0.4	0	-110.5	0	0.957	0	-138
STORY1	B101	B400x600	COMB19 MIN	2.84	0	-31.15	0	0.957	0	8.69
STORY1	B101	B400x600	COMB19 MIN	4.8	0	2	0	0.957	0	-142

TABEL OUTPUT KOLOM

Story	Column	Load	Loc	P	V2	V3	T	M2	M3
STORY10	C14	COMB1	0	-395.4	-16.78	40.99	-3.726	54.081	-31.075
STORY10	C14	COMB1	1.85	-373.4	-16.78	40.99	-3.726	-21.756	-0.035
STORY10	C14	COMB1	3.7	-351.4	-16.78	40.99	-3.726	-97.593	31.005
STORY10	C14	COMB2	0	-408.1	-18.06	53.4	-3.754	90.893	-33.972
STORY10	C14	COMB2	1.85	-389.3	-18.06	53.4	-3.754	-7.89	-0.565
STORY10	C14	COMB2	3.7	-370.5	-18.06	53.4	-3.754	-106.67	32.842
STORY10	C14	COMB3	0	-382.5	4.72	49.14	-2.843	77.574	7.44
STORY10	C14	COMB3	1.85	-363.7	4.72	49.14	-2.843	-13.332	-1.285
STORY10	C14	COMB3	3.7	-344.9	4.72	49.14	-2.843	-104.24	-10.009
STORY10	C14	COMB4	0	-378.6	-42.57	52.76	-2.982	84.544	-78.709
STORY10	C14	COMB4	1.85	-359.8	-42.57	52.76	-2.982	-13.062	0.055
STORY10	C14	COMB4	3.7	-340.9	-42.57	52.76	-2.982	-110.67	78.818
STORY10	C14	COMB5	0	-379.8	9.3	39	-4.071	61.44	16.397
STORY10	C14	COMB5	1.85	-361	9.3	39	-4.071	-10.711	-0.809
STORY10	C14	COMB5	3.7	-342.2	9.3	39	-4.071	-82.861	-18.015
STORY10	C14	COMB6	0	-375.9	-37.99	42.62	-4.21	68.41	-69.752
STORY10	C14	COMB6	1.85	-357.1	-37.99	42.62	-4.21	-10.44	0.53
STORY10	C14	COMB6	3.7	-338.3	-37.99	42.62	-4.21	-89.29	70.813
STORY10	C14	COMB7	0	-384.3	-17.18	62.23	-1.458	98.836	-33.162
STORY10	C14	COMB7	1.85	-365.5	-17.18	62.23	-1.458	-16.296	-1.371
STORY10	C14	COMB7	3.7	-346.6	-17.18	62.23	-1.458	-131.43	30.42
STORY10	C14	COMB8	0	-383.1	-31.37	63.32	-1.5	100.927	-59.006
STORY10	C14	COMB8	1.85	-364.3	-31.37	63.32	-1.5	-16.215	-0.969
STORY10	C14	COMB8	3.7	-345.5	-31.37	63.32	-1.5	-133.36	57.068
STORY10	C14	COMB9	0	-375.3	-1.9	28.44	-5.553	45.056	-3.306
STORY10	C14	COMB9	1.85	-356.5	-1.9	28.44	-5.553	-7.557	0.215
STORY10	C14	COMB9	3.7	-337.7	-1.9	28.44	-5.553	-60.171	3.735
STORY10	C14	COMB10	0	-374.1	-16.09	29.53	-5.595	47.147	-29.151
STORY10	C14	COMB10	1.85	-355.3	-16.09	29.53	-5.595	-7.476	0.617
STORY10	C14	COMB10	3.7	-336.5	-16.09	29.53	-5.595	-62.099	30.384
STORY10	C14	COMB11	0	-257.5	10.57	29.61	-1.712	39.349	18.619
STORY10	C14	COMB11	1.85	-243.4	10.57	29.61	-1.712	-15.432	-0.93
STORY10	C14	COMB11	3.7	-229.2	10.57	29.61	-1.712	-70.213	-20.479
STORY10	C14	COMB12	0	-253.6	-36.72	33.23	-1.85	46.318	-67.53
STORY10	C14	COMB12	1.85	-239.4	-36.72	33.23	-1.85	-15.162	0.409
STORY10	C14	COMB12	3.7	-225.3	-36.72	33.23	-1.85	-76.642	68.348
STORY10	C14	COMB13	0	-254.8	15.15	19.47	-2.94	23.215	27.576
STORY10	C14	COMB13	1.85	-240.7	15.15	19.47	-2.94	-12.81	-0.454
STORY10	C14	COMB13	3.7	-226.5	15.15	19.47	-2.94	-48.835	-28.485

STORY10	C14	COMB14	0	-250.9	-32.14	23.09	-3.079	30.184	-58.573
STORY10	C14	COMB14	1.85	-236.7	-32.14	23.09	-3.079	-12.54	0.885
STORY10	C14	COMB14	3.7	-222.6	-32.14	23.09	-3.079	-55.264	60.343
STORY10	C14	COMB15	0	-259.2	-11.33	42.71	-0.327	60.611	-21.982
STORY10	C14	COMB15	1.85	-245.1	-11.33	42.71	-0.327	-18.396	-1.016
STORY10	C14	COMB15	3.7	-231	-11.33	42.71	-0.327	-97.403	19.95
STORY10	C14	COMB16	0	-258.1	-25.52	43.79	-0.369	62.702	-47.827
STORY10	C14	COMB16	1.85	-243.9	-25.52	43.79	-0.369	-18.315	-0.614
STORY10	C14	COMB16	3.7	-229.8	-25.52	43.79	-0.369	-99.332	46.598
STORY10	C14	COMB17	0	-250.3	3.95	8.91	-4.422	6.831	7.873
STORY10	C14	COMB17	1.85	-236.2	3.95	8.91	-4.422	-9.657	0.569
STORY10	C14	COMB17	3.7	-222	3.95	8.91	-4.422	-26.145	-6.735
STORY10	C14	COMB18	0	-249.1	-10.24	10	-4.463	8.922	-17.972
STORY10	C14	COMB18	1.85	-235	-10.24	10	-4.463	-9.576	0.971
STORY10	C14	COMB18	3.7	-220.9	-10.24	10	-4.463	-28.074	19.914
STORY9	C14	COMB1	0	-889.2	-7.12	-7.13	-4.392	-6.152	-14.347
STORY9	C14	COMB1	1.6	-870.2	-7.12	-7.13	-4.392	5.252	-2.949
STORY9	C14	COMB1	3.2	-851.2	-7.12	-7.13	-4.392	16.656	8.448
STORY9	C14	COMB2	0	-966.1	-9.2	14.91	-4.455	33.189	-17.91
STORY9	C14	COMB2	1.6	-949.9	-9.2	14.91	-4.455	9.335	-3.19
STORY9	C14	COMB2	3.2	-933.6	-9.2	14.91	-4.455	-14.519	11.53
STORY9	C14	COMB3	0	-892.3	32.32	14.46	-3.152	30.142	53.024
STORY9	C14	COMB3	1.6	-876	32.32	14.46	-3.152	7.006	1.308
STORY9	C14	COMB3	3.2	-859.7	32.32	14.46	-3.152	-16.129	-50.408
STORY9	C14	COMB4	0	-886	-53.8	17.22	-3.264	35.69	-94.322
STORY9	C14	COMB4	1.6	-869.7	-53.8	17.22	-3.264	8.138	-8.235
STORY9	C14	COMB4	3.2	-853.4	-53.8	17.22	-3.264	-19.414	77.851
STORY9	C14	COMB5	0	-881.3	37.76	-3.95	-5.094	0.306	62.778
STORY9	C14	COMB5	1.6	-865	37.76	-3.95	-5.094	6.633	2.361
STORY9	C14	COMB5	3.2	-848.7	37.76	-3.95	-5.094	12.96	-58.056
STORY9	C14	COMB6	0	-875	-48.37	-1.19	-5.206	5.854	-84.568
STORY9	C14	COMB6	1.6	-858.7	-48.37	-1.19	-5.206	7.764	-7.183
STORY9	C14	COMB6	3.2	-842.4	-48.37	-1.19	-5.206	9.675	70.203
STORY9	C14	COMB7	0	-903	-4.17	36.91	-0.926	66.893	-9.926
STORY9	C14	COMB7	1.6	-886.7	-4.17	36.91	-0.926	7.838	-3.26
STORY9	C14	COMB7	3.2	-870.4	-4.17	36.91	-0.926	-51.216	3.407
STORY9	C14	COMB8	0	-901.1	-30	37.74	-0.959	68.557	-54.13
STORY9	C14	COMB8	1.6	-884.8	-30	37.74	-0.959	8.178	-6.123
STORY9	C14	COMB8	3.2	-868.5	-30	37.74	-0.959	-52.201	41.884
STORY9	C14	COMB9	0	-866.2	13.96	-24.47	-7.399	-32.561	22.586
STORY9	C14	COMB9	1.6	-849.9	13.96	-24.47	-7.399	6.593	0.248
STORY9	C14	COMB9	3.2	-833.6	13.96	-24.47	-7.399	45.747	-22.089
STORY9	C14	COMB10	0	-864.3	-11.88	-23.64	-7.433	-30.897	-21.617

STORY9	C14	COMB10	1.6	-848	-11.88	-23.64	-7.433	6.933	-2.615
STORY9	C14	COMB10	3.2	-831.8	-11.88	-23.64	-7.433	44.762	16.388
STORY9	C14	COMB11	0	-580.3	35.76	3.24	-1.796	8.189	59.573
STORY9	C14	COMB11	1.6	-568.1	35.76	3.24	-1.796	2.997	2.349
STORY9	C14	COMB11	3.2	-555.9	35.76	3.24	-1.796	-2.195	-54.874
STORY9	C14	COMB12	0	-574	-50.36	6.01	-1.908	13.737	-87.773
STORY9	C14	COMB12	1.6	-561.8	-50.36	6.01	-1.908	4.129	-7.194
STORY9	C14	COMB12	3.2	-549.6	-50.36	6.01	-1.908	-5.48	73.385
STORY9	C14	COMB13	0	-569.3	41.2	-15.17	-3.738	-21.647	69.327
STORY9	C14	COMB13	1.6	-557.1	41.2	-15.17	-3.738	2.624	3.402
STORY9	C14	COMB13	3.2	-544.8	41.2	-15.17	-3.738	26.894	-62.523
STORY9	C14	COMB14	0	-563	-44.92	-12.41	-3.85	-16.099	-78.019
STORY9	C14	COMB14	1.6	-550.8	-44.92	-12.41	-3.85	3.755	-6.141
STORY9	C14	COMB14	3.2	-538.5	-44.92	-12.41	-3.85	23.609	65.736
STORY9	C14	COMB15	0	-591	-0.72	25.69	0.43	44.94	-3.378
STORY9	C14	COMB15	1.6	-578.7	-0.72	25.69	0.43	3.829	-2.219
STORY9	C14	COMB15	3.2	-566.5	-0.72	25.69	0.43	-37.282	-1.06
STORY9	C14	COMB16	0	-589.1	-26.56	26.52	0.397	46.604	-47.581
STORY9	C14	COMB16	1.6	-576.9	-26.56	26.52	0.397	4.168	-5.082
STORY9	C14	COMB16	3.2	-564.6	-26.56	26.52	0.397	-38.267	37.418
STORY9	C14	COMB17	0	-554.2	17.4	-35.69	-6.043	-54.514	29.135
STORY9	C14	COMB17	1.6	-542	17.4	-35.69	-6.043	2.584	1.29
STORY9	C14	COMB17	3.2	-529.8	17.4	-35.69	-6.043	59.682	-26.556
STORY9	C14	COMB18	0	-552.3	-8.43	-34.86	-6.077	-52.85	-15.069
STORY9	C14	COMB18	1.6	-540.1	-8.43	-34.86	-6.077	2.923	-1.573
STORY9	C14	COMB18	3.2	-527.9	-8.43	-34.86	-6.077	58.696	11.922
STORY8	C14	COMB1	0	-1399	-14.99	7.71	-8.323	7.836	-26.212
STORY8	C14	COMB1	1.6	-1373	-14.99	7.71	-8.323	-4.505	-2.227
STORY8	C14	COMB1	3.2	-1347	-14.99	7.71	-8.323	-16.845	21.757
STORY8	C14	COMB2	0	-1542	-17.68	32.18	-8.474	54.625	-31.336
STORY8	C14	COMB2	1.6	-1520	-17.68	32.18	-8.474	3.133	-3.055
STORY8	C14	COMB2	3.2	-1498	-17.68	32.18	-8.474	-48.359	25.225
STORY8	C14	COMB3	0	-1422	44.96	31.87	-5.639	50.597	76.161
STORY8	C14	COMB3	1.6	-1400	44.96	31.87	-5.639	-0.389	4.221
STORY8	C14	COMB3	3.2	-1378	44.96	31.87	-5.639	-51.376	-67.719
STORY8	C14	COMB4	0	-1411	-84.96	36.42	-5.824	59.354	-147.05
STORY8	C14	COMB4	1.6	-1389	-84.96	36.42	-5.824	1.075	-11.116
STORY8	C14	COMB4	3.2	-1367	-84.96	36.42	-5.824	-57.204	124.82
STORY8	C14	COMB5	0	-1398	53.32	7.58	-10.06	11.795	91.189
STORY8	C14	COMB5	1.6	-1375	53.32	7.58	-10.06	-0.328	5.878
STORY8	C14	COMB5	3.2	-1353	53.32	7.58	-10.06	-12.451	-79.434
STORY8	C14	COMB6	0	-1387	-76.6	12.14	-10.24	20.553	-132.02
STORY8	C14	COMB6	1.6	-1365	-76.6	12.14	-10.24	1.137	-9.459

STORY8	C14	COMB6	3.2	-1343	-76.6	12.14	-10.24	-18.28	113.105
STORY8	C14	COMB7	0	-1447	-10.26	61.8	-0.55	98.93	-19.496
STORY8	C14	COMB7	1.6	-1424	-10.26	61.8	-0.55	0.052	-3.079
STORY8	C14	COMB7	3.2	-1402	-10.26	61.8	-0.55	-98.827	13.338
STORY8	C14	COMB8	0	-1443	-49.24	63.17	-0.605	101.557	-86.46
STORY8	C14	COMB8	1.6	-1421	-49.24	63.17	-0.605	0.491	-7.68
STORY8	C14	COMB8	3.2	-1399	-49.24	63.17	-0.605	-100.58	71.099
STORY8	C14	COMB9	0	-1365	17.6	-19.16	-15.28	-30.408	30.598
STORY8	C14	COMB9	1.6	-1343	17.6	-19.16	-15.28	0.256	2.442
STORY8	C14	COMB9	3.2	-1321	17.6	-19.16	-15.28	30.92	-25.713
STORY8	C14	COMB10	0	-1362	-21.38	-17.8	-15.33	-27.78	-36.366
STORY8	C14	COMB10	1.6	-1340	-21.38	-17.8	-15.33	0.696	-2.159
STORY8	C14	COMB10	3.2	-1318	-21.38	-17.8	-15.33	29.172	32.049
STORY8	C14	COMB11	0	-916.9	51.15	14.82	-3.049	20.059	87.242
STORY8	C14	COMB11	1.6	-900.3	51.15	14.82	-3.049	-3.659	5.408
STORY8	C14	COMB11	3.2	-883.7	51.15	14.82	-3.049	-27.377	-76.425
STORY8	C14	COMB12	0	-906.2	-78.78	19.38	-3.234	28.817	-135.97
STORY8	C14	COMB12	1.6	-889.6	-78.78	19.38	-3.234	-2.194	-9.928
STORY8	C14	COMB12	3.2	-872.9	-78.78	19.38	-3.234	-33.205	116.114
STORY8	C14	COMB13	0	-892.6	59.5	-9.47	-7.467	-18.742	102.27
STORY8	C14	COMB13	1.6	-876	59.5	-9.47	-7.467	-3.597	7.065
STORY8	C14	COMB13	3.2	-859.4	59.5	-9.47	-7.467	11.547	-88.14
STORY8	C14	COMB14	0	-881.9	-70.42	-4.91	-7.651	-9.985	-120.94
STORY8	C14	COMB14	1.6	-865.3	-70.42	-4.91	-7.651	-2.133	-8.272
STORY8	C14	COMB14	3.2	-848.6	-70.42	-4.91	-7.651	5.719	104.399
STORY8	C14	COMB15	0	-941.5	-4.08	44.76	2.04	68.393	-8.415
STORY8	C14	COMB15	1.6	-924.9	-4.08	44.76	2.04	-3.218	-1.892
STORY8	C14	COMB15	3.2	-908.3	-4.08	44.76	2.04	-74.828	4.631
STORY8	C14	COMB16	0	-938.3	-43.05	46.12	1.985	71.02	-75.379
STORY8	C14	COMB16	1.6	-921.7	-43.05	46.12	1.985	-2.778	-6.493
STORY8	C14	COMB16	3.2	-905.1	-43.05	46.12	1.985	-76.577	62.393
STORY8	C14	COMB17	0	-860.5	23.78	-36.21	-12.69	-60.945	41.678
STORY8	C14	COMB17	1.6	-843.9	23.78	-36.21	-12.69	-3.013	3.63
STORY8	C14	COMB17	3.2	-827.2	23.78	-36.21	-12.69	54.919	-34.419
STORY8	C14	COMB18	0	-857.3	-15.2	-34.84	-12.74	-58.318	-25.285
STORY8	C14	COMB18	1.6	-840.6	-15.2	-34.84	-12.74	-2.574	-0.971
STORY8	C14	COMB18	3.2	-824	-15.2	-34.84	-12.74	53.17	23.342
STORY7	C14	COMB1	0	-1911	-10.71	3.44	-8.177	3.836	-19.325
STORY7	C14	COMB1	1.6	-1885	-10.71	3.44	-8.177	-1.667	-2.194
STORY7	C14	COMB1	3.2	-1859	-10.71	3.44	-8.177	-7.169	14.936
STORY7	C14	COMB2	0	-2121	-13.14	25.64	-8.332	48.172	-24.261
STORY7	C14	COMB2	1.6	-2098	-13.14	25.64	-8.332	7.146	-3.243
STORY7	C14	COMB2	3.2	-2076	-13.14	25.64	-8.332	-33.88	17.774

STORY7	C14	COMB3	0	-1956	63.44	29.84	-5.052	51.945	113.175
STORY7	C14	COMB3	1.6	-1934	63.44	29.84	-5.052	4.205	11.664
STORY7	C14	COMB3	3.2	-1912	63.44	29.84	-5.052	-43.534	-89.848
STORY7	C14	COMB4	0	-1940	-95.47	34.18	-5.217	60.869	-172.29
STORY7	C14	COMB4	1.6	-1918	-95.47	34.18	-5.217	6.174	-19.532
STORY7	C14	COMB4	3.2	-1896	-95.47	34.18	-5.217	-48.52	133.228
STORY7	C14	COMB5	0	-1915	72.25	-0.93	-10.39	-0.178	129.687
STORY7	C14	COMB5	1.6	-1892	72.25	-0.93	-10.39	1.309	14.09
STORY7	C14	COMB5	3.2	-1870	72.25	-0.93	-10.39	2.795	-101.51
STORY7	C14	COMB6	0	-1899	-86.67	3.42	-10.56	8.747	-155.78
STORY7	C14	COMB6	1.6	-1876	-86.67	3.42	-10.56	3.278	-17.106
STORY7	C14	COMB6	3.2	-1854	-86.67	3.42	-10.56	-2.191	121.569
STORY7	C14	COMB7	0	-1999	-2.45	67.25	1.123	115.877	-6.001
STORY7	C14	COMB7	1.6	-1977	-2.45	67.25	1.123	8.274	-2.086
STORY7	C14	COMB7	3.2	-1955	-2.45	67.25	1.123	-99.33	1.83
STORY7	C14	COMB8	0	-1994	-50.12	68.56	1.073	118.555	-91.641
STORY7	C14	COMB8	1.6	-1972	-50.12	68.56	1.073	8.864	-11.444
STORY7	C14	COMB8	3.2	-1950	-50.12	68.56	1.073	-100.83	68.752
STORY7	C14	COMB9	0	-1861	26.9	-35.3	-16.68	-57.864	49.036
STORY7	C14	COMB9	1.6	-1838	26.9	-35.3	-16.68	-1.381	6.003
STORY7	C14	COMB9	3.2	-1816	26.9	-35.3	-16.68	55.101	-37.031
STORY7	C14	COMB10	0	-1856	-20.78	-34	-16.73	-55.186	-36.604
STORY7	C14	COMB10	1.6	-1834	-20.78	-34	-16.73	-0.79	-3.356
STORY7	C14	COMB10	3.2	-1811	-20.78	-34	-16.73	53.606	29.891
STORY7	C14	COMB11	0	-1257	68.18	15.42	-2.503	24.065	122.055
STORY7	C14	COMB11	1.6	-1241	68.18	15.42	-2.503	-0.608	12.974
STORY7	C14	COMB11	3.2	-1224	68.18	15.42	-2.503	-25.28	-96.107
STORY7	C14	COMB12	0	-1241	-90.74	19.77	-2.668	32.989	-163.41
STORY7	C14	COMB12	1.6	-1224	-90.74	19.77	-2.668	1.361	-18.222
STORY7	C14	COMB12	3.2	-1208	-90.74	19.77	-2.668	-30.266	126.969
STORY7	C14	COMB13	0	-1216	76.98	-15.35	-7.845	-28.058	138.566
STORY7	C14	COMB13	1.6	-1199	76.98	-15.35	-7.845	-3.504	15.401
STORY7	C14	COMB13	3.2	-1182	76.98	-15.35	-7.845	21.049	-107.77
STORY7	C14	COMB14	0	-1200	-81.94	-11	-8.01	-19.133	-146.9
STORY7	C14	COMB14	1.6	-1183	-81.94	-11	-8.01	-1.535	-15.795
STORY7	C14	COMB14	3.2	-1166	-81.94	-11	-8.01	16.063	115.311
STORY7	C14	COMB15	0	-1300	2.28	52.84	3.671	87.998	2.878
STORY7	C14	COMB15	1.6	-1283	2.28	52.84	3.671	3.461	-0.775
STORY7	C14	COMB15	3.2	-1267	2.28	52.84	3.671	-81.076	-4.429
STORY7	C14	COMB16	0	-1295	-45.39	54.14	3.622	90.675	-82.762
STORY7	C14	COMB16	1.6	-1278	-45.39	54.14	3.622	4.051	-10.134
STORY7	C14	COMB16	3.2	-1262	-45.39	54.14	3.622	-82.572	62.494
STORY7	C14	COMB17	0	-1162	31.63	-49.72	-14.14	-85.743	57.916

STORY7	C14	COMB17	1.6	-1145	31.63	-49.72	-14.14	-6.194	7.313
STORY7	C14	COMB17	3.2	-1128	31.63	-49.72	-14.14	73.355	-43.29
STORY7	C14	COMB18	0	-1157	-16.05	-48.41	-14.19	-83.066	-27.724
STORY7	C14	COMB18	1.6	-1140	-16.05	-48.41	-14.19	-5.603	-2.046
STORY7	C14	COMB18	3.2	-1124	-16.05	-48.41	-14.19	71.86	23.633
STORY6	C14	COMB1	0	-2412	-9.43	4.6	-7.9	3.633	-15.753
STORY6	C14	COMB1	1.6	-2386	-9.43	4.6	-7.9	-3.73	-0.664
STORY6	C14	COMB1	3.2	-2360	-9.43	4.6	-7.9	-11.093	14.425
STORY6	C14	COMB2	0	-2688	-11.97	27.84	-8.05	49.998	-20.969
STORY6	C14	COMB2	1.6	-2666	-11.97	27.84	-8.05	5.455	-1.814
STORY6	C14	COMB2	3.2	-2644	-11.97	27.84	-8.05	-39.088	17.34
STORY6	C14	COMB3	0	-2483	78.67	33.8	-4.398	58.45	147.573
STORY6	C14	COMB3	1.6	-2461	78.67	33.8	-4.398	4.364	21.695
STORY6	C14	COMB3	3.2	-2438	78.67	33.8	-4.398	-49.721	-104.18
STORY6	C14	COMB4	0	-2460	-109.35	38.65	-4.544	68.35	-202.3
STORY6	C14	COMB4	1.6	-2438	-109.35	38.65	-4.544	6.503	-27.337
STORY6	C14	COMB4	3.2	-2415	-109.35	38.65	-4.544	-55.344	147.626
STORY6	C14	COMB5	0	-2420	88.41	-1.98	-10.54	-5.629	166.12
STORY6	C14	COMB5	1.6	-2398	88.41	-1.98	-10.54	-2.468	24.667
STORY6	C14	COMB5	3.2	-2376	88.41	-1.98	-10.54	0.692	-116.79
STORY6	C14	COMB6	0	-2397	-99.62	2.88	-10.68	4.272	-183.75
STORY6	C14	COMB6	1.6	-2375	-99.62	2.88	-10.68	-0.33	-24.364
STORY6	C14	COMB6	3.2	-2353	-99.62	2.88	-10.68	-4.931	135.024
STORY6	C14	COMB7	0	-2548	1.51	77.24	2.713	136.673	3.48
STORY6	C14	COMB7	1.6	-2525	1.51	77.24	2.713	13.084	1.066
STORY6	C14	COMB7	3.2	-2503	1.51	77.24	2.713	-110.51	-1.348
STORY6	C14	COMB8	0	-2541	-54.9	78.7	2.669	139.643	-101.48
STORY6	C14	COMB8	1.6	-2519	-54.9	78.7	2.669	13.726	-13.643
STORY6	C14	COMB8	3.2	-2496	-54.9	78.7	2.669	-112.19	74.195
STORY6	C14	COMB9	0	-2339	33.96	-42.02	-17.75	-76.922	65.302
STORY6	C14	COMB9	1.6	-2317	33.96	-42.02	-17.75	-9.691	10.974
STORY6	C14	COMB9	3.2	-2295	33.96	-42.02	-17.75	57.539	-43.355
STORY6	C14	COMB10	0	-2332	-22.45	-40.56	-17.79	-73.951	-39.66
STORY6	C14	COMB10	1.6	-2310	-22.45	-40.56	-17.79	-9.05	-3.736
STORY6	C14	COMB10	3.2	-2288	-22.45	-40.56	-17.79	55.852	32.188
STORY6	C14	COMB11	0	-1593	83.08	18.42	-1.936	29.425	155.536
STORY6	C14	COMB11	1.6	-1577	83.08	18.42	-1.936	-0.051	22.603
STORY6	C14	COMB11	3.2	-1560	83.08	18.42	-1.936	-29.526	-110.33
STORY6	C14	COMB12	0	-1570	-104.94	23.27	-2.082	39.325	-194.34
STORY6	C14	COMB12	1.6	-1554	-104.94	23.27	-2.082	2.088	-26.429
STORY6	C14	COMB12	3.2	-1537	-104.94	23.27	-2.082	-35.149	141.479
STORY6	C14	COMB13	0	-1531	92.82	-17.36	-8.075	-34.654	174.083
STORY6	C14	COMB13	1.6	-1514	92.82	-17.36	-8.075	-6.883	25.575

STORY6	C14	COMB13	3.2	-1498	92.82	-17.36	-8.075	20.887	-122.93
STORY6	C14	COMB14	0	-1508	-95.21	-12.51	-8.221	-24.753	-175.79
STORY6	C14	COMB14	1.6	-1491	-95.21	-12.51	-8.221	-4.745	-23.456
STORY6	C14	COMB14	3.2	-1475	-95.21	-12.51	-8.221	15.264	128.877
STORY6	C14	COMB15	0	-1658	5.92	61.86	5.175	107.648	11.443
STORY6	C14	COMB15	1.6	-1642	5.92	61.86	5.175	8.669	1.974
STORY6	C14	COMB15	3.2	-1625	5.92	61.86	5.175	-90.309	-7.495
STORY6	C14	COMB16	0	-1651	-50.49	63.32	5.131	110.618	-93.519
STORY6	C14	COMB16	1.6	-1635	-50.49	63.32	5.131	9.311	-12.735
STORY6	C14	COMB16	3.2	-1618	-50.49	63.32	5.131	-91.996	68.048
STORY6	C14	COMB17	0	-1450	38.36	-57.4	-15.29	-105.95	73.265
STORY6	C14	COMB17	1.6	-1433	38.36	-57.4	-15.29	-14.106	11.882
STORY6	C14	COMB17	3.2	-1417	38.36	-57.4	-15.29	77.734	-49.502
STORY6	C14	COMB18	0	-1443	-18.04	-55.94	-15.33	-102.98	-31.697
STORY6	C14	COMB18	1.6	-1427	-18.04	-55.94	-15.33	-13.465	-2.828
STORY6	C14	COMB18	3.2	-1410	-18.04	-55.94	-15.33	76.047	26.042
STORY5	C14	COMB1	0	-2901	-5.35	5.16	-7.511	2.907	-4.788
STORY5	C14	COMB1	1.6	-2875	-5.35	5.16	-7.511	-5.35	3.772
STORY5	C14	COMB1	3.2	-2849	-5.35	5.16	-7.511	-13.607	12.333
STORY5	C14	COMB2	0	-3242	-7.63	25.56	-7.657	40.362	-9.157
STORY5	C14	COMB2	1.6	-3220	-7.63	25.56	-7.657	-0.527	3.046
STORY5	C14	COMB2	3.2	-3198	-7.63	25.56	-7.657	-41.416	15.248
STORY5	C14	COMB3	0	-2999	91.45	35.36	-3.738	60.214	178.808
STORY5	C14	COMB3	1.6	-2977	91.45	35.36	-3.738	3.637	32.482
STORY5	C14	COMB3	3.2	-2955	91.45	35.36	-3.738	-52.939	-113.85
STORY5	C14	COMB4	0	-2968	-113.93	39.65	-3.893	68.311	-211.27
STORY5	C14	COMB4	1.6	-2946	-113.93	39.65	-3.893	4.87	-28.982
STORY5	C14	COMB4	3.2	-2924	-113.93	39.65	-3.893	-58.57	153.31
STORY5	C14	COMB5	0	-2912	101.03	-5.3	-10.45	-17.573	196.855
STORY5	C14	COMB5	1.6	-2890	101.03	-5.3	-10.45	-9.093	35.21
STORY5	C14	COMB5	3.2	-2868	101.03	-5.3	-10.45	-0.612	-126.44
STORY5	C14	COMB6	0	-2882	-104.36	-1.01	-10.61	-9.476	-193.23
STORY5	C14	COMB6	1.6	-2859	-104.36	-1.01	-10.61	-7.86	-26.253
STORY5	C14	COMB6	3.2	-2837	-104.36	-1.01	-10.61	-6.244	140.719
STORY5	C14	COMB7	0	-3090	8.4	84.3	4.038	153.799	21.224
STORY5	C14	COMB7	1.6	-3067	8.4	84.3	4.038	18.921	7.786
STORY5	C14	COMB7	3.2	-3045	8.4	84.3	4.038	-115.96	-5.651
STORY5	C14	COMB8	0	-3080	-53.22	85.59	3.992	156.228	-95.8
STORY5	C14	COMB8	1.6	-3058	-53.22	85.59	3.992	19.291	-10.653
STORY5	C14	COMB8	3.2	-3036	-53.22	85.59	3.992	-117.65	74.495
STORY5	C14	COMB9	0	-2800	40.31	-51.24	-18.34	-105.49	81.382
STORY5	C14	COMB9	1.6	-2778	40.31	-51.24	-18.34	-23.513	16.881
STORY5	C14	COMB9	3.2	-2756	40.31	-51.24	-18.34	58.465	-47.621

STORY5	C14	COMB10	0	-2791	-21.3	-49.95	-18.38	-103.06	-35.642
STORY5	C14	COMB10	1.6	-2769	-21.3	-49.95	-18.38	-23.143	-1.558
STORY5	C14	COMB10	3.2	-2747	-21.3	-49.95	-18.38	56.775	32.525
STORY5	C14	COMB11	0	-1924	94.47	21.5	-1.395	36.713	182.939
STORY5	C14	COMB11	1.6	-1907	94.47	21.5	-1.395	2.309	31.793
STORY5	C14	COMB11	3.2	-1891	94.47	21.5	-1.395	-32.095	-119.35
STORY5	C14	COMB12	0	-1893	-110.92	25.79	-1.55	44.811	-207.14
STORY5	C14	COMB12	1.6	-1876	-110.92	25.79	-1.55	3.542	-29.671
STORY5	C14	COMB12	3.2	-1860	-110.92	25.79	-1.55	-37.727	147.801
STORY5	C14	COMB13	0	-1837	104.04	-19.16	-8.107	-41.074	200.986
STORY5	C14	COMB13	1.6	-1820	104.04	-19.16	-8.107	-10.421	34.521
STORY5	C14	COMB13	3.2	-1804	104.04	-19.16	-8.107	20.232	-131.94
STORY5	C14	COMB14	0	-1806	-101.35	-14.87	-8.262	-32.976	-189.1
STORY5	C14	COMB14	1.6	-1790	-101.35	-14.87	-8.262	-9.188	-26.942
STORY5	C14	COMB14	3.2	-1773	-101.35	-14.87	-8.262	14.6	135.21
STORY5	C14	COMB15	0	-2014	11.41	70.44	6.382	130.299	25.355
STORY5	C14	COMB15	1.6	-1998	11.41	70.44	6.382	17.592	7.098
STORY5	C14	COMB15	3.2	-1981	11.41	70.44	6.382	-95.114	-11.16
STORY5	C14	COMB16	0	-2005	-50.2	71.73	6.335	132.728	-91.669
STORY5	C14	COMB16	1.6	-1988	-50.2	71.73	6.335	17.962	-11.341
STORY5	C14	COMB16	3.2	-1972	-50.2	71.73	6.335	-96.803	68.986
STORY5	C14	COMB17	0	-1725	43.33	-65.09	-15.99	-128.99	85.513
STORY5	C14	COMB17	1.6	-1708	43.33	-65.09	-15.99	-24.841	16.192
STORY5	C14	COMB17	3.2	-1692	43.33	-65.09	-15.99	79.308	-53.13
STORY5	C14	COMB18	0	-1716	-18.29	-63.81	-16.04	-126.56	-31.511
STORY5	C14	COMB18	1.6	-1699	-18.29	-63.81	-16.04	-24.471	-2.247
STORY5	C14	COMB18	3.2	-1682	-18.29	-63.81	-16.04	77.619	27.016
STORY4	C14	COMB1	0	-3405	-9.04	-1.84	-12.1	-26.939	-11.365
STORY4	C14	COMB1	1.6	-3371	-9.04	-1.84	-12.1	-23.999	3.098
STORY4	C14	COMB1	3.2	-3337	-9.04	-1.84	-12.1	-21.06	17.562
STORY4	C14	COMB2	0	-3808	-12.25	23.72	-12.36	20.594	-17.884
STORY4	C14	COMB2	1.6	-3779	-12.25	23.72	-12.36	-17.358	1.709
STORY4	C14	COMB2	3.2	-3750	-12.25	23.72	-12.36	-55.31	21.303
STORY4	C14	COMB3	0	-3530	99.89	31.79	-5.788	41.131	203.213
STORY4	C14	COMB3	1.6	-3501	99.89	31.79	-5.788	-9.739	43.391
STORY4	C14	COMB3	3.2	-3472	99.89	31.79	-5.788	-60.609	-116.43
STORY4	C14	COMB4	0	-3490	-132.2	37.11	-6.247	51.367	-255.29
STORY4	C14	COMB4	1.6	-3461	-132.2	37.11	-6.247	-8.005	-43.762
STORY4	C14	COMB4	3.2	-3432	-132.2	37.11	-6.247	-67.378	167.763
STORY4	C14	COMB5	0	-3417	111.22	-9.97	-16.89	-45.545	225.882
STORY4	C14	COMB5	1.6	-3388	111.22	-9.97	-16.89	-29.589	47.931
STORY4	C14	COMB5	3.2	-3359	111.22	-9.97	-16.89	-13.633	-130.02
STORY4	C14	COMB6	0	-3377	-120.87	-4.66	-17.35	-35.309	-232.62

STORY4	C14	COMB6	1.6	-3348	-120.87	-4.66	-17.35	-27.855	-39.222
STORY4	C14	COMB6	3.2	-3319	-120.87	-4.66	-17.35	-20.401	154.175
STORY4	C14	COMB7	0	-3648	5.44	82.38	7.009	145.836	16.291
STORY4	C14	COMB7	1.6	-3619	5.44	82.38	7.009	14.026	7.591
STORY4	C14	COMB7	3.2	-3590	5.44	82.38	7.009	-117.78	-1.11
STORY4	C14	COMB8	0	-3636	-64.19	83.98	6.871	148.907	-121.26
STORY4	C14	COMB8	1.6	-3607	-64.19	83.98	6.871	14.546	-18.555
STORY4	C14	COMB8	3.2	-3578	-64.19	83.98	6.871	-119.81	84.148
STORY4	C14	COMB9	0	-3271	43.21	-56.84	-30.01	-143.09	91.853
STORY4	C14	COMB9	1.6	-3242	43.21	-56.84	-30.01	-52.14	22.724
STORY4	C14	COMB9	3.2	-3213	43.21	-56.84	-30.01	38.804	-46.405
STORY4	C14	COMB10	0	-3259	-26.42	-55.25	-30.15	-140.01	-45.697
STORY4	C14	COMB10	1.6	-3230	-26.42	-55.25	-30.15	-51.62	-3.422
STORY4	C14	COMB10	3.2	-3201	-26.42	-55.25	-30.15	36.773	38.853
STORY4	C14	COMB11	0	-2265	104.57	17.05	-1.994	20.902	210.61
STORY4	C14	COMB11	1.6	-2243	104.57	17.05	-1.994	-6.37	43.298
STORY4	C14	COMB11	3.2	-2222	104.57	17.05	-1.994	-33.642	-124.01
STORY4	C14	COMB12	0	-2226	-127.52	22.36	-2.453	31.139	-247.89
STORY4	C14	COMB12	1.6	-2204	-127.52	22.36	-2.453	-4.636	-43.855
STORY4	C14	COMB12	3.2	-2182	-127.52	22.36	-2.453	-40.411	160.181
STORY4	C14	COMB13	0	-2152	115.9	-24.72	-13.1	-65.774	233.279
STORY4	C14	COMB13	1.6	-2130	115.9	-24.72	-13.1	-26.22	47.838
STORY4	C14	COMB13	3.2	-2109	115.9	-24.72	-13.1	13.334	-137.6
STORY4	C14	COMB14	0	-2113	-116.19	-19.41	-13.56	-55.537	-225.22
STORY4	C14	COMB14	1.6	-2091	-116.19	-19.41	-13.56	-24.486	-39.315
STORY4	C14	COMB14	3.2	-2069	-116.19	-19.41	-13.56	6.565	146.593
STORY4	C14	COMB15	0	-2383	10.12	67.63	10.803	125.607	23.688
STORY4	C14	COMB15	1.6	-2362	10.12	67.63	10.803	17.395	7.498
STORY4	C14	COMB15	3.2	-2340	10.12	67.63	10.803	-90.817	-8.692
STORY4	C14	COMB16	0	-2371	-59.51	69.23	10.665	128.678	-113.86
STORY4	C14	COMB16	1.6	-2350	-59.51	69.23	10.665	17.915	-18.648
STORY4	C14	COMB16	3.2	-2328	-59.51	69.23	10.665	-92.847	76.566
STORY4	C14	COMB17	0	-2006	47.89	-71.59	-26.22	-163.31	99.25
STORY4	C14	COMB17	1.6	-1985	47.89	-71.59	-26.22	-48.771	22.631
STORY4	C14	COMB17	3.2	-1963	47.89	-71.59	-26.22	65.771	-53.987
STORY4	C14	COMB18	0	-1995	-21.74	-69.99	-26.36	-160.24	-38.3
STORY4	C14	COMB18	1.6	-1973	-21.74	-69.99	-26.36	-48.251	-3.514
STORY4	C14	COMB18	3.2	-1951	-21.74	-69.99	-26.36	63.74	31.271
STORY3	C14	COMB1	0	-3899	-1.47	33.97	-10.6	74.864	10.748
STORY3	C14	COMB1	1.6	-3865	-1.47	33.97	-10.6	20.516	13.096
STORY3	C14	COMB1	3.2	-3832	-1.47	33.97	-10.6	-33.833	15.443
STORY3	C14	COMB2	0	-4364	-3.99	54.41	-10.97	110.252	5.639
STORY3	C14	COMB2	1.6	-4335	-3.99	54.41	-10.97	23.198	12.03

STORY3	C14	COMB2	3.2	-4306	-3.99	54.41	-10.97	-63.857	18.422
STORY3	C14	COMB3	0	-4049	116.21	66.82	-4.648	150.603	284.266
STORY3	C14	COMB3	1.6	-4020	116.21	66.82	-4.648	43.687	98.323
STORY3	C14	COMB3	3.2	-3991	116.21	66.82	-4.648	-63.23	-87.62
STORY3	C14	COMB4	0	-4003	-131.84	69.09	-5.884	151.958	-293.62
STORY3	C14	COMB4	1.6	-3974	-131.84	69.09	-5.884	41.42	-82.675
STORY3	C14	COMB4	3.2	-3945	-131.84	69.09	-5.884	-69.119	128.271
STORY3	C14	COMB5	0	-3910	125.98	20.54	-14.56	34.798	307.685
STORY3	C14	COMB5	1.6	-3881	125.98	20.54	-14.56	1.941	106.11
STORY3	C14	COMB5	3.2	-3852	125.98	20.54	-14.56	-30.916	-95.464
STORY3	C14	COMB6	0	-3864	-122.07	22.8	-15.79	36.153	-270.2
STORY3	C14	COMB6	1.6	-3835	-122.07	22.8	-15.79	-0.326	-74.888
STORY3	C14	COMB6	3.2	-3806	-122.07	22.8	-15.79	-36.805	120.427
STORY3	C14	COMB7	0	-4196	18	121.62	6.481	286.183	54.684
STORY3	C14	COMB7	1.6	-4167	18	121.62	6.481	91.596	25.889
STORY3	C14	COMB7	3.2	-4138	18	121.62	6.481	-102.99	-2.906
STORY3	C14	COMB8	0	-4182	-56.42	122.3	6.11	286.59	-118.68
STORY3	C14	COMB8	1.6	-4153	-56.42	122.3	6.11	90.916	-28.41
STORY3	C14	COMB8	3.2	-4124	-56.42	122.3	6.11	-104.76	61.861
STORY3	C14	COMB9	0	-3731	50.56	-32.67	-26.55	-99.833	132.746
STORY3	C14	COMB9	1.6	-3702	50.56	-32.67	-26.55	-47.555	51.846
STORY3	C14	COMB9	3.2	-3673	50.56	-32.67	-26.55	4.723	-29.055
STORY3	C14	COMB10	0	-3717	-23.85	-31.99	-26.92	-99.427	-40.62
STORY3	C14	COMB10	1.6	-3688	-23.85	-31.99	-26.92	-48.235	-2.454
STORY3	C14	COMB10	3.2	-3659	-23.85	-31.99	-26.92	2.956	35.713
STORY3	C14	COMB11	0	-2599	118.2	43.85	-1.24	105.352	284.144
STORY3	C14	COMB11	1.6	-2578	118.2	43.85	-1.24	35.195	95.024
STORY3	C14	COMB11	3.2	-2556	118.2	43.85	-1.24	-34.962	-94.095
STORY3	C14	COMB12	0	-2553	-129.86	46.11	-2.476	106.707	-293.74
STORY3	C14	COMB12	1.6	-2532	-129.86	46.11	-2.476	32.928	-85.974
STORY3	C14	COMB12	3.2	-2510	-129.86	46.11	-2.476	-40.851	121.796
STORY3	C14	COMB13	0	-2460	127.97	-2.44	-11.15	-10.453	307.562
STORY3	C14	COMB13	1.6	-2438	127.97	-2.44	-11.15	-6.551	102.811
STORY3	C14	COMB13	3.2	-2416	127.97	-2.44	-11.15	-2.648	-101.94
STORY3	C14	COMB14	0	-2414	-120.09	-0.18	-12.39	-9.098	-270.33
STORY3	C14	COMB14	1.6	-2392	-120.09	-0.18	-12.39	-8.818	-78.187
STORY3	C14	COMB14	3.2	-2370	-120.09	-0.18	-12.39	-8.537	113.951
STORY3	C14	COMB15	0	-2746	19.98	98.64	9.888	240.932	54.562
STORY3	C14	COMB15	1.6	-2724	19.98	98.64	9.888	83.104	22.59
STORY3	C14	COMB15	3.2	-2702	19.98	98.64	9.888	-74.723	-9.382
STORY3	C14	COMB16	0	-2732	-54.43	99.32	9.518	241.338	-118.8
STORY3	C14	COMB16	1.6	-2710	-54.43	99.32	9.518	82.424	-31.709
STORY3	C14	COMB16	3.2	-2689	-54.43	99.32	9.518	-76.49	55.386

STORY3	C14	COMB17	0	-2281	52.55	-55.65	-23.14	-145.09	132.623
STORY3	C14	COMB17	1.6	-2259	52.55	-55.65	-23.14	-56.047	48.546
STORY3	C14	COMB17	3.2	-2238	52.55	-55.65	-23.14	32.99	-35.53
STORY3	C14	COMB18	0	-2267	-21.87	-54.97	-23.52	-144.68	-40.743
STORY3	C14	COMB18	1.6	-2245	-21.87	-54.97	-23.52	-56.727	-5.753
STORY3	C14	COMB18	3.2	-2224	-21.87	-54.97	-23.52	31.224	29.237
STORY2	C14	COMB1	0	-4517	-7.7	32.67	-7.468	-72.494	-6.716
STORY2	C14	COMB1	1.1	-4494	-7.7	32.67	-7.468	-108.44	1.759
STORY2	C14	COMB1	2.2	-4471	-7.7	32.67	-7.468	-144.38	10.233
STORY2	C14	COMB2	0	-5026	-14.05	44.34	-8.017	-72.486	-18.357
STORY2	C14	COMB2	1.1	-5006	-14.05	44.34	-8.017	-121.26	-2.907
STORY2	C14	COMB2	2.2	-4986	-14.05	44.34	-8.017	-170.03	12.543
STORY2	C14	COMB3	0	-4681	115.3	61.75	-2.501	-1.486	272.583
STORY2	C14	COMB3	1.1	-4661	115.3	61.75	-2.501	-69.409	145.749
STORY2	C14	COMB3	2.2	-4641	115.3	61.75	-2.501	-137.33	18.915
STORY2	C14	COMB4	0	-4616	-147.2	63.68	-5.755	-2.847	-323.1
STORY2	C14	COMB4	1.1	-4596	-147.2	63.68	-5.755	-72.894	-161.18
STORY2	C14	COMB4	2.2	-4576	-147.2	63.68	-5.755	-142.94	0.74
STORY2	C14	COMB5	0	-4520	124.88	13.63	-9.008	-132.92	296.259
STORY2	C14	COMB5	1.1	-4500	124.88	13.63	-9.008	-147.91	158.887
STORY2	C14	COMB5	2.2	-4480	124.88	13.63	-9.008	-162.9	21.515
STORY2	C14	COMB6	0	-4455	-137.62	15.56	-12.26	-134.28	-299.43
STORY2	C14	COMB6	1.1	-4435	-137.62	15.56	-12.26	-151.4	-148.04
STORY2	C14	COMB6	2.2	-4415	-137.62	15.56	-12.26	-168.51	3.34
STORY2	C14	COMB7	0	-4846	12.25	118.56	3.952	151.374	36.472
STORY2	C14	COMB7	1.1	-4826	12.25	118.56	3.952	20.956	22.996
STORY2	C14	COMB7	2.2	-4806	12.25	118.56	3.952	-109.46	9.52
STORY2	C14	COMB8	0	-4827	-66.5	119.14	2.975	150.966	-142.24
STORY2	C14	COMB8	1.1	-4807	-66.5	119.14	2.975	19.91	-69.084
STORY2	C14	COMB8	2.2	-4787	-66.5	119.14	2.975	-111.15	4.067
STORY2	C14	COMB9	0	-4309	44.18	-41.83	-17.74	-286.73	115.389
STORY2	C14	COMB9	1.1	-4290	44.18	-41.83	-17.74	-240.71	66.788
STORY2	C14	COMB9	2.2	-4270	44.18	-41.83	-17.74	-194.7	18.188
STORY2	C14	COMB10	0	-4290	-34.57	-41.25	-18.71	-287.14	-63.317
STORY2	C14	COMB10	1.1	-4270	-34.57	-41.25	-18.71	-241.76	-25.291
STORY2	C14	COMB10	2.2	-4250	-34.57	-41.25	-18.71	-196.38	12.735
STORY2	C14	COMB11	0	-3017	121.51	44.1	0.08	19.793	281.689
STORY2	C14	COMB11	1.1	-3002	121.51	44.1	0.08	-28.716	148.028
STORY2	C14	COMB11	2.2	-2987	121.51	44.1	0.08	-77.225	14.366
STORY2	C14	COMB12	0	-2952	-141	46.03	-3.174	18.432	-314
STORY2	C14	COMB12	1.1	-2937	-141	46.03	-3.174	-32.201	-158.9
STORY2	C14	COMB12	2.2	-2922	-141	46.03	-3.174	-82.833	-3.809
STORY2	C14	COMB13	0	-2856	131.09	-4.02	-6.427	-111.64	305.364

STORY2	C14	COMB13	1.1	-2841	131.09	-4.02	-6.427	-107.22	161.165
STORY2	C14	COMB13	2.2	-2826	131.09	-4.02	-6.427	-102.8	16.966
STORY2	C14	COMB14	0	-2791	-131.42	-2.09	-9.681	-113	-290.32
STORY2	C14	COMB14	1.1	-2776	-131.42	-2.09	-9.681	-110.7	-145.77
STORY2	C14	COMB14	2.2	-2761	-131.42	-2.09	-9.681	-108.4	-1.209
STORY2	C14	COMB15	0	-3182	18.46	100.91	6.532	172.653	45.577
STORY2	C14	COMB15	1.1	-3167	18.46	100.91	6.532	61.649	25.274
STORY2	C14	COMB15	2.2	-3152	18.46	100.91	6.532	-49.356	4.971
STORY2	C14	COMB16	0	-3162	-60.29	101.49	5.556	172.245	-133.13
STORY2	C14	COMB16	1.1	-3148	-60.29	101.49	5.556	60.603	-66.805
STORY2	C14	COMB16	2.2	-3133	-60.29	101.49	5.556	-51.038	-0.482
STORY2	C14	COMB17	0	-2645	50.39	-59.48	-15.16	-265.45	124.495
STORY2	C14	COMB17	1.1	-2630	50.39	-59.48	-15.16	-200.02	69.067
STORY2	C14	COMB17	2.2	-2615	50.39	-59.48	-15.16	-134.59	13.639
STORY2	C14	COMB18	0	-2626	-28.36	-58.9	-16.13	-265.86	-54.211
STORY2	C14	COMB18	1.1	-2611	-28.36	-58.9	-16.13	-201.07	-23.013
STORY2	C14	COMB18	2.2	-2596	-28.36	-58.9	-16.13	-136.27	8.186
STORY1	C14	COMB1	0	-5089	-17.45	-48.64	-3.05	-111.28	-21.66
STORY1	C14	COMB1	1.1	-5066	-17.45	-48.64	-3.05	-57.768	-2.466
STORY1	C14	COMB1	2.2	-5043	-17.45	-48.64	-3.05	-4.261	16.728
STORY1	C14	COMB2	0	-5830	-19.18	-65.03	-3.791	-131.02	-26.456
STORY1	C14	COMB2	1.1	-5810	-19.18	-65.03	-3.791	-59.484	-5.354
STORY1	C14	COMB2	2.2	-5790	-19.18	-65.03	-3.791	12.049	15.749
STORY1	C14	COMB3	0	-5372	17.27	-53.31	0.161	-74.854	162.424
STORY1	C14	COMB3	1.1	-5352	17.27	-53.31	0.161	-16.218	143.428
STORY1	C14	COMB3	2.2	-5332	17.27	-53.31	0.161	42.418	124.432
STORY1	C14	COMB4	0	-5299	-45.9	-27.92	-4.911	-31.809	-203.51
STORY1	C14	COMB4	1.1	-5279	-45.9	-27.92	-4.911	-1.092	-153.02
STORY1	C14	COMB4	2.2	-5259	-45.9	-27.92	-4.911	29.624	-102.54
STORY1	C14	COMB5	0	-5201	10.79	-84.14	-1.756	-202.4	156.688
STORY1	C14	COMB5	1.1	-5181	10.79	-84.14	-1.756	-109.84	144.816
STORY1	C14	COMB5	2.2	-5162	10.79	-84.14	-1.756	-17.286	132.943
STORY1	C14	COMB6	0	-5128	-52.37	-58.76	-6.828	-159.36	-209.25
STORY1	C14	COMB6	1.1	-5108	-52.37	-58.76	-6.828	-94.717	-151.64
STORY1	C14	COMB6	2.2	-5089	-52.37	-58.76	-6.828	-30.079	-94.023
STORY1	C14	COMB7	0	-5545	2.72	-8.44	0.623	89.016	41.038
STORY1	C14	COMB7	1.1	-5525	2.72	-8.44	0.623	98.305	38.051
STORY1	C14	COMB7	2.2	-5505	2.72	-8.44	0.623	107.594	35.063
STORY1	C14	COMB8	0	-5523	-16.23	-0.83	-0.899	101.93	-68.742
STORY1	C14	COMB8	1.1	-5503	-16.23	-0.83	-0.899	102.843	-50.885
STORY1	C14	COMB8	2.2	-5483	-16.23	-0.83	-0.899	103.756	-33.027
STORY1	C14	COMB9	0	-4977	-18.87	-111.24	-5.767	-336.14	21.919

STORY1	C14	COMB9	1.1	-4957	-18.87	-111.24	-5.767	-213.78	42.677
STORY1	C14	COMB9	2.2	-4937	-18.87	-111.24	-5.767	-91.418	63.436
STORY1	C14	COMB10	0	-4955	-37.82	-103.62	-7.289	-323.23	-87.861
STORY1	C14	COMB10	1.1	-4935	-37.82	-103.62	-7.289	-209.24	-46.258
STORY1	C14	COMB10	2.2	-4916	-37.82	-103.62	-7.289	-95.256	-4.654
STORY1	C14	COMB11	0	-3393	23.6	-28.54	1.533	-29.283	171.911
STORY1	C14	COMB11	1.1	-3378	23.6	-28.54	1.533	2.113	145.946
STORY1	C14	COMB11	2.2	-3363	23.6	-28.54	1.533	33.509	119.981
STORY1	C14	COMB12	0	-3320	-39.56	-3.16	-3.538	13.762	-194.02
STORY1	C14	COMB12	1.1	-3305	-39.56	-3.16	-3.538	17.239	-150.51
STORY1	C14	COMB12	2.2	-3290	-39.56	-3.16	-3.538	20.716	-106.99
STORY1	C14	COMB13	0	-3223	17.13	-59.38	-0.384	-156.83	166.175
STORY1	C14	COMB13	1.1	-3208	17.13	-59.38	-0.384	-91.512	147.334
STORY1	C14	COMB13	2.2	-3193	17.13	-59.38	-0.384	-26.194	128.492
STORY1	C14	COMB14	0	-3150	-46.04	-34	-5.455	-113.78	-199.76
STORY1	C14	COMB14	1.1	-3135	-46.04	-34	-5.455	-76.386	-149.12
STORY1	C14	COMB14	2.2	-3120	-46.04	-34	-5.455	-38.988	-98.474
STORY1	C14	COMB15	0	-3566	9.05	16.32	1.995	134.587	50.525
STORY1	C14	COMB15	1.1	-3551	9.05	16.32	1.995	116.636	40.569
STORY1	C14	COMB15	2.2	-3536	9.05	16.32	1.995	98.686	30.612
STORY1	C14	COMB16	0	-3544	-9.9	23.93	0.473	147.5	-59.255
STORY1	C14	COMB16	1.1	-3529	-9.9	23.93	0.473	121.174	-48.366
STORY1	C14	COMB16	2.2	-3514	-9.9	23.93	0.473	94.848	-37.478
STORY1	C14	COMB17	0	-2999	-12.54	-86.47	-4.395	-290.57	31.407
STORY1	C14	COMB17	1.1	-2984	-12.54	-86.47	-4.395	-195.45	45.196
STORY1	C14	COMB17	2.2	-2969	-12.54	-86.47	-4.395	-100.33	58.985
STORY1	C14	COMB18	0	-2977	-31.49	-78.86	-5.917	-277.65	-78.373
STORY1	C14	COMB18	1.1	-2962	-31.49	-78.86	-5.917	-190.91	-43.739
STORY1	C14	COMB18	2.2	-2947	-31.49	-78.86	-5.917	-104.16	-9.105

PENULANGAN BALOK

Tabel Penulangan lentur balok

Keterangan	Letak	f'c	fy	ø	β	b	h	tul	sengkang	selimut	d'	d	Mu	Mn	Rn	d'/d	δ	1000p	As	As'	Tul	As terpasang	Tul	As'	As min	As min	As max	Syarat As min1	Syarat As min2	Syarat As max
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	578.171	722.7	3.34	0.1	0.50	8.96234	2636.7209	1318.3604	6	2945.2	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
LT 9	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	289.086	361.4	1.67	0.1	0.50	4.2857	1260.8483	630.4241	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	312.313	390.4	1.80	0.1	0.50	4.6833	1377.8299	688.9150	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	383.1	478.8	2.21	0.1	0.50	5.8000	1706.36	853.1800	6	2945.2	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
ATAP	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	328.7	410.9	1.90	0.1	0.50	4.8848	1437.1054	718.5527	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	191.5	239.4	1.11	0.1	0.50	2.8146	828.06652	414.0333	3	1472.6	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	586.1	732.6	3.39	0.1	0.50	9.0890	2673.971	1336.9855	6	2945.2	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
LT 8	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	310.8	388.5	1.80	0.1	0.50	4.6580	1370.3812	685.1906	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	293.0	366.3	1.69	0.1	0.50	4.3426	1277.604	638.8020	3	1472.6	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	617.851	772.3	3.57	0.1	0.50	9.5844	2819.7376	1409.8688	6	2945.2	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
LT 7	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	303.918	379.9	1.76	0.1	0.50	4.5448	1337.0656	668.5328	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	308.9255	386.2	1.78	0.1	0.50	4.6274	1361.381	680.6905	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	643.253	804.1	3.72	0.1	0.50	9.9798	2936.0644	1468.0322	7	3436.1	4	1963.495	1007.12485	1029.7	7355	ok	ok	ok
LT 6	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	301.576	377.0	1.74	0.1	0.50	4.5000	1323.9	661.9500	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	321.6265	402.0	1.86	0.1	0.50	4.8599	1429.7733	714.8867	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	662.119	827.6	3.82	0.1	0.50	10.3059	3031.9946	1515.9973	7	3436.1	4	1963.495	1007.12485	1029.7	7355	ok	ok	ok
LT 5	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	297.567	372.0	1.72	0.1	0.50	4.4299	1303.281	651.6405	3	1472.6	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	331.0595	413.8	1.91	0.1	0.50	4.9606	1459.4223	729.7111	3	1472.6	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	650.41	813.0	3.76	0.1	0.50	10.0717	2963.0944	1481.5472	7	3436.1	4	1963.495	1007.12485	1029.7	7355	ok	ok	ok
LT 4	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	290.754	363.4	1.68	0.1	0.50	4.3000	1265.06	632.5300	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	325.205	406.5	1.88	0.1	0.50	4.9123	1445.2082	722.6041	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	637.532	796.9	3.68	0.1	0.50	9.9000	2912.58	1456.2900	7	3436.1	4	1963.495	1007.12485	1029.7	7355	ok	ok	ok
LT 3	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	282.017	352.5	1.63	0.1	0.50	4.2274	1243.6867	621.8434	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	318.766	398.5	1.84	0.1	0.50	4.8048	1413.5684	706.7842	3	1472.6	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	727.163	909.0	4.20	0.1	0.50	11.3355	3334.9036	1667.4518	7	3436.1	4	1963.495	1007.12485	1029.7	7355	ok	ok	ok
LT 2	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	325.542	406.9	1.88	0.1	0.50	4.9123	1445.2082	722.6041	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	363.5815	454.5	2.10	0.1	0.50	5.4677	1608.6118	804.3059	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 66	Tumpuan -	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	512.635	640.8	2.96	0.1	0.50	7.9000	2324.18	1162.0900	7	3436.1	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
LT 1	Tumpuan +	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	351.893	439.9	2.03	0.1	0.50	5.2652	1549.0076	774.5038	5	2454.4	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	800	25	12	40	64.5	735.5	256.3175	320.4	1.48	0.1	0.50	3.7845	1113.393	556.6965	4	1963.5	3	1472.622	1007.12485	1029.7	7355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	224.1	280.1	2.44	0.12	0.50	6.4068	1372.3319	686.1659	4	1963.5	2	981.7477	733.263574	749.7	5355	ok	ok	ok
ATAP	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	56.0	70.0	0.61	0.12	0.50	1.5004	321.38609	160.6930	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	112.0	140.1	1.22	0.12	0.50	3.0000	642.6	321.3000	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	474.4	593.0	5.17	0.12	0.50	14.4236	3089.5423	1544.7711	7	3436.1	4	1963.495	733.263574	749.7	5355	ok	ok	ok
LT 9	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	118.6	148.2	1.29	0.12	0.50	3.1745	679.98743	339.9937	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	237.2	296.5	2.58	0.12	0.50	6.7745	1451.1074	725.5537	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	442.9	553.6	4.83	0.12	0.50	13.3258	2854.3821	1427.1911	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 8	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	110.7	138.4	1.21	0.12	0.50	3.0000	642.6	321.3000	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	221.4	276.8	2.41	0.12	0.50	6.3000	1349.46	674.7300	4	1963.5	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	442.3	552.9	4.82	0.12	0.50	13.3000	2848.86	1424.4300	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 7	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	110.6	138.2	1.20	0.12	0.50	2.9832	639.0008	319.5004	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	221.1	276.4	2.41	0.12	0.50	6.3000	1349.46	674.7300	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	437.1	546.3	4.76	0.12	0.50	13.1572	2818.2752	1409.1376	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT6	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	109.3	136.6	1.19	0.12	0.50	2.9357	628.83507	314.4175	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	218.5	273.2	2.38	0.12	0.50	6.2048	1329.0701	664.5351	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	430.4	538.0	4.69	0.12	0.50	12.9573	2775.4481	1387.7241	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 5	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	107.6	134.5	1.17	0.12	0.50	2.8816	617.23787	308.6189	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	215.2	269.0	2.35	0.12	0.50	6.1000	1306.62	653.3100	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	416.1	520.1	4.53	0.12	0.50	12.4602	2668.9849	1334.4925	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 4	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	104.0	130.0	1.13	0.12	0.50	2.7858	596.70888	298.3544	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	208.0	260.0	2.27	0.12	0.50	5.9081	1265.5183	632.7591	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	410.7	513.3	4.48	0.12	0.50	12.2883	2632.1478	1316.0739	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 3	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	102.7	128.3	1.12	0.12	0.50	2.7497	588.97717	294.4886	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	205.3	256.7	2.24	0.12	0.50	5.8000	1242.36	621.1800	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	412.2	515.2	4.49	0.12	0.50	12.3292	2640.913	1320.4565	6	2945.2	3	1472.622	733.263574	749.7	5355	ok	ok	ok
LT 2	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	103.0	128.8	1.12	0.12	0.50	2.7497	588.97717	294.4886	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	206.1	257.6	2.25	0.12	0.50	5.8234	1247.3624	623.6812	3	1472.6	2	981.7477	733.263574	749.7	5355	ok	ok	ok

Tabel Penulangan lentur balok

Keterangan	Letak	f'c	fy	ø	β	b	h	tul	sengkang	selimut	d'	d	Mu	Mn	Rn	d'/d	δ	1000p	As	As'	Tul	As terpasang	Tul	As'	As min	As min	As max	Syarat As min1	Syarat As min2	Syarat As max
BLK 11	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	412.5890	515.7363	4.50	0.12	0.50	12.34058	2643.3523	1321.67613	6	2945.2	3	1472.62156	733.2636	749.7000	5355	ok	ok	ok
LT 1	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	103.1473	128.9341	1.12	0.12	0.50	2.7625155	591.7308	295.8654048	3	1472.6	2	981.747704	733.2636	749.7000	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	206.2945	257.8681	2.25	0.12	0.50	5.8324641	1249.3138	624.6569038	3	1472.6	2	981.747704	733.2636	749.7000	5355	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	144.0280	180.0350	1.55	0.11	0.50	3.8642417	832.3577	416.1788338	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 9	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	36.0070	45.0088	0.39	0.11	0.50	0.9536336	205.4127	102.7063367	3	850.6	3	850.586	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	72.0140	90.0175	0.78	0.11	0.50	1.9072672	410.8253	205.4126733	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	56.7100	70.8875	1.23	0.14	0.50	3.000	394.6500	197.325	4	1134.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
ATAP	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	14.1775	17.7219	0.31	0.14	0.50	0.7550	99.3244	49.66221276	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	28.3550	35.4438	0.61	0.14	0.50	1.5100635	198.6489	99.32442553	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	155.0740	193.8425	3.36	0.14	0.50	9.0439	1189.7312	594.8655754	6	1701.2	3	850.586211	450.3306	460.4250	3289	ok	ok	ok
LT 9	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	38.7685	48.4606	0.84	0.14	0.50	2.064641	271.6035	135.801763	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	77.5370	96.9213	1.68	0.14	0.50	4.2000	552.5100	276.255	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	141.0760	176.3450	3.06	0.14	0.50	8.1487175	1071.9638	535.9818916	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 8	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	35.2690	44.0863	0.76	0.14	0.50	1.8782729	247.0868	123.543402	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	70.5380	88.1725	1.53	0.14	0.50	3.8170511	502.1331	251.0665371	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	141.7890	177.2363	3.07	0.14	0.50	8.1928614	1077.7709	538.885459	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 7	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	35.4473	44.3091	0.77	0.14	0.50	1.8877657	248.3356	124.167792	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	70.8945	88.6181	1.54	0.14	0.50	3.8325015	504.1656	252.0827856	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	140.7470	175.9338	3.05	0.14	0.50	8.1283481	1069.2842	534.6420968	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 6	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	35.1868	43.9834	0.76	0.14	0.50	1.8782729	247.0868	123.543402	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	70.3735	87.9669	1.52	0.14	0.50	3.8000	499.8900	249.945	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	139.4580	174.3225	3.02	0.14	0.50	8.039966	1057.6575	528.8287657	3	850.6	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 5	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	34.8645	43.5806	0.76	0.14	0.50	1.8782729	247.0868	123.543402	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	69.7290	87.1613	1.51	0.14	0.50	3.7819898	497.5208	248.7603797	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	133.6980	167.1225	2.90	0.14	0.50	7.7572443	1020.4655	510.2327452	4	1134.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 4	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	33.4245	41.7806	0.72	0.14	0.50	1.7800429	234.1646	117.0823227	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	66.8490	83.5613	1.45	0.14	0.50	3.6143466	475.4673	237.7336471	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	132.3270	165.4088	2.87	0.14	0.50	7.6582146	1007.4381	503.7190621	4	1134.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 3	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	33.0818	41.3522	0.72	0.14	0.50	1.7800429	234.1646	117.0823227	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	66.1635	82.7044	1.43	0.14	0.50	3.5549287	467.6509	233.8254373	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 108	Tumpuan -	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	139.8940	174.8675	3.03	0.14	0.50	8.0714591	1061.8004	530.9002214	4	1134.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
LT 2	Tumpuan +	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	34.9735	43.7169	0.76	0.14	0.50	1.8782729	247.0868	123.543402	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
	Lapangan	30	400	0.8	0.85	300	500	19	12	40	61.5	438.5	69.9470	87.4338	1.52	0.14	0.50	3.8000	499.8900	249.945	2	567.1	2	567.057474	450.3306	460.4250	3289	ok	ok	ok
BLK 131	Tumpuan -	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	561.1360	701.4200	6.12	0.12	0.50	17.4	3727.0800	1863.54	6	2945.2	3	1472.62156	733.2636	749.7000	5355	ok	ok	ok
LT 1	Tumpuan +	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	294.9480	368.6850	3.21	0.12	0.50	8.6140896	1845.1380	922.5689916	4	1963.5	2	981.747704	733.2636	749.7000	5355	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	25	12	40	64.5	535.5	280.5680	350.7100	3.06	0.12	0.50	8.1487175	1745.4553	872.727641	4	1963.5	2	981.747704	733.2636	749.7000	5355	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	105.9640	132.4550	1.14	0.11	0.50	2.8064218	604.5032	302.2516249	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
ATAP	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	26.4910	33.1138	0.29	0.11	0.50	0.7016054	151.1258	75.56290622	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	52.9820	66.2275	0.57	0.11	0.50	1.4032109	302.2516	151.1258124	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	176.5090	220.6363	1.90	0.11	0.50	4.8405102	1042.6459	521.3229496	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 8	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	44.1273	55.1591	0.48	0.11	0.50	1.1686957	251.7371	125.868531	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	88.2545	110.3181	0.95	0.11	0.50	2.3373915	503.4741	251.7370619	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	201.3420	251.6775	2.17	0.11	0.50	5.582944	1202.5661	601.2830734	5	1417.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 7	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	50.3355	62.9194	0.54	0.11	0.50	1.3331192	287.1539	143.5769381	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	114.1070	142.6338	1.23	0.11	0.50	3.000	646.2000	323.1	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	218.9530	273.6913	2.36	0.11	0.50	6.1318392	1320.7982	660.3990777	5	1417.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 6	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	54.7383	68.4228	0.59	0.11	0.50	1.4497246	312.2707	156.1353385	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	133.3270	166.6588	1.44	0.11	0.50	3.5672052	768.3760	384.1880019	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	230.2960	287.8700	2.48	0.11	0.50	6.5336852	1407.3558	703.6779003	6	1701.2	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 5	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	57.5740	71.9675	0.62	0.11	0.50	1.5248285	328.4481	164.2240294	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	147.0540	183.8175	1.58	0.11	0.50	3.9589225	852.7519	426.3759499	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	232.6160	290.7700	2.51	0.11	0.50	6.6051182	1422.7425	711.3712283	6	1701.2	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
LT 4	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	58.1540	72.6925	0.63	0.11	0.50	1.5401896	331.7568	165.8784209	3	850.6	3	850.586211	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	161.0630	201.3288	1.74	0.11	0.50	4.4113978	950.2151	475.107545	4	1134.1	3	850.586211	737.3715	753.9000	5385	ok	ok	ok

Tabel Penulangan lentur balok

Keterangan	Letak	f'c	fy	ø	β	b	h	tul	sengkang	selimut	d'	d	Mu	Mn	Rn	d'/d	δ	1000ρ	As	As'	Tul	As terpasang	Tul	As'	As min	As min	As max	Syarat As min 1	Syarat As min 2	Syarat As max
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	224.039	280.0	2.41	0.11	0.50	6.3000	1357.02	678.51	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 3	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	56.010	70.0	0.60	0.11	0.50	1.4834	319.52	159.762	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	153.813	192.3	1.66	0.11	0.50	4.1626	896.63	448.314	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	192.3	240.4	2.07	0.11	0.50	5.3423	1150.74	575.37	5	1417.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 2	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	49.7	62.1	0.54	0.11	0.50	1.3153	283.31	141.653	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	154.2	192.8	1.66	0.11	0.50	4.1626	896.63	448.314	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 100	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	155.4	194.3	1.67	0.11	0.50	4.1914	902.84	451.418	5	1417.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 1	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	46.5	58.1	0.50	0.11	0.50	1.2303	265.02	132.508	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	77.7	97.1	0.84	0.11	0.50	2.0581	443.31	221.657	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	127.413	159.3	1.37	0.11	0.50	3.4000	732.36	366.18	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
ATAP	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	31.85325	39.8	0.34	0.11	0.50	0.8436	181.72	90.8582	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	63.7065	79.6	0.69	0.11	0.50	1.6872	363.43	181.716	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	178.679	223.3	1.93	0.11	0.50	4.9185	1059.44	529.718	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 9	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	44.66975	55.8	0.48	0.11	0.50	1.1831	254.83	127.416	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	89.3395	111.7	0.96	0.11	0.50	2.3661	509.66	254.832	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	210.955	263.7	2.27	0.11	0.50	5.9334	1278.06	639.032	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 8	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	52.73875	65.9	0.57	0.11	0.50	1.3968	300.86	150.432	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	105.4775	131.8	1.14	0.11	0.50	2.7935	601.73	300.864	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	237.429	296.8	2.56	0.11	0.50	6.7311	1449.88	724.939	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 7	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	59.35725	74.2	0.64	0.11	0.50	1.5721	338.62	169.311	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	135.09	168.9	1.46	0.11	0.50	3.6432	784.75	392.373	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	248.702	310.9	2.68	0.11	0.50	7.0671	1522.26	761.131	7	1984.7	4	1134.115	737.3715	753.9000	5385	ok	ok	ok
LT 6	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	62.1755	77.7	0.67	0.11	0.50	1.6467	354.70	177.349	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	145.586	182.0	1.57	0.11	0.50	3.9000	840.06	420.03	2	567.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	253.539	316.9	2.73	0.11	0.50	7.2351	1558.43	779.215	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 5	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	63.38475	79.2	0.68	0.11	0.50	1.6787	361.60	180.799	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	154.413	193.0	1.66	0.11	0.50	4.1626	896.63	448.314	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	254.001	317.5	2.74	0.11	0.50	7.2493	1561.49	780.747	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 4	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	63.50025	79.4	0.68	0.11	0.50	1.6818	362.26	181.128	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	167.028	208.8	1.80	0.11	0.50	4.5666	983.65	491.823	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	246.1	307.7	2.65	0.11	0.50	6.9745	1502.31	751.154	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 3	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	61.5	76.9	0.66	0.11	0.50	1.6296	351.02	175.51	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	165.8	207.2	1.79	0.11	0.50	4.5214	973.92	486.96	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	196.8	246.0	2.12	0.11	0.50	5.5000	1184.70	592.35	6	1701.2	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 2	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	49.2	61.5	0.53	0.11	0.50	1.3030	280.66	140.329	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	132.4	165.5	1.43	0.11	0.50	3.5282	759.98	379.991	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
BLK 101	Tumpuan -	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	142.1	177.6	1.53	0.11	0.50	3.8227	823.40	411.701	4	1134.1	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
LT 1	Tumpuan +	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	43.9	54.9	0.47	0.11	0.50	1.1621	250.33	125.163	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok
	Lapangan	30	400	0.8	0.85	400	600	19	12	40	61.5	538.5	71.0	88.8	0.77	0.11	0.50	1.8817	405.32	202.662	3	850.6	3	850.5862	737.3715	753.9000	5385	ok	ok	ok

Tabel Momen kapasitas positif balok

Balok	fc	fy	Beta	hf	h	L	bw	ln	be			be	d'	d	a	As'	As	Cc	fs'	Cs'	Ca	T	balok/T	Luluh/blm	Cari	A	B	Co	C	fs'	L/BLM	a	Cc	Cs	Mpr+	
BLK 66 LT 9	30	500	0.85	120	800	9750	400	9150	2437.5	2320	9550	2320	64.5	735.5	120	2945.243	1963.495	7099200	325.88	959781.095	8058981.1	981747.7	persegi	belum luluh	C	50286	785398	1E+08	40.44	-357.06	BLM LULUH	34.37	2033379.34	-1051631.64	754961188.53	754.96
BLK 66 ATAP	30	500	0.85	120	800	9750	400	9150	2437.5	2320	9550	2320	64.5	735.5	120	2945.243	1963.495	7099200	325.88	959781.099	8058981.1	981747.7	persegi	belum luluh	C	50286	785398	1E+08	40.44	-357.06	BLM LULUH	34.37	2033379.34	-1051631.64	754961191.58	754.96
BLK 66 LT 8	30	500	0.85	120	800	9750	400	9050	2437.5	2320	9450	2320	64.5	735.5	120	2945.243	1963.495	7099200	325.88	959781.099	8058981.1	981747.7	persegi	belum luluh	C	50286	785398	1E+08	40.44	-357.06	BLM LULUH	34.37	2033379.34	-1051631.64	754961191.58	754.96
BLK 66 LT 7	30	500	0.85	120	800	9750	400	9050	2437.5	2320	9450	2320	64.5	735.5	120	2945.243	1963.495	7099200	325.88	959781.099	8058981.1	981747.7	persegi	belum luluh	C	50286	785398	1E+08	40.44	-357.06	BLM LULUH	34.37	2033379.34	-1051631.64	754961191.58	754.96
BLK 66 LT 6	30	500	0.85	120	800	9750	400	9050	2437.5	2320	9450	2320	64.5	735.5	120	3436.117	1963.495	7099200	325.88	1119744.62	8218944.6	981747.7	persegi	belum luluh	C	50286	1079922	1E+08	41.80	-325.94	BLM LULUH	35.53	2101719.31	-1119971.60	756980744.50	756.98
BLK 66 LT 5	30	500	0.85	120	800	9750	400	9050	2437.5	2320	9450	2320	64.5	735.5	120	3436.117	1472.622	7099200	325.88	1119744.62	8218944.6	736310.8	persegi	belum luluh	C	50286	1325359	1E+08	39.91	369.74	BLM LULUH	33.92	2006788.85	-1270478.07	589465889.32	589.47
BLK 66 LT 4	30	500	0.85	120	800	9750	400	8950	2437.5	2320	9350	2320	64.5	735.5	120	3436.117	1963.495	7099200	325.88	1119744.62	8218944.6	981747.7	persegi	belum luluh	C	50286	1079922	1E+08	41.80	-325.94	BLM LULUH	35.53	2101719.31	-1119971.60	756980744.50	756.98
BLK 66 LT 3	30	500	0.85	120	800	9750	400	8950	2437.5	2320	9350	2320	64.5	735.5	120	3436.117	1963.495	7099200	325.88	1119744.62	8218944.6	981747.7	persegi	belum luluh	C	50286	1079922	1E+08	41.80	-325.94	BLM LULUH	35.53	2101719.31	-1119971.60	756980744.50	756.98
BLK 66 LT 2	30	500	0.85	120	800	9750	400	8950	2437.5	2320	9350	2320	64.5	735.5	120	3436.117	1963.495	7099200	325.88	1119744.62	8218944.6	981747.7	persegi	belum luluh	C	50286	1079922	1E+08	41.80	-325.94	BLM LULUH	35.53	2101719.31	-1119971.60	756980744.50	756.98
BLK 66 LT 1	30	500	0.85	150	800	9750	400	8950	2437.5	2800	9350	2438	64.5	735.5	150	3436.117	2454.369	9323438	380.7	1308129.73	10631567	1227185	persegi	belum luluh	C	52833	834486	1E+08	42.89	-302.32	BLM LULUH	36.46	2265978.95	-1038794.32	928292070.00	928.29
BLK 11 ATAP	30	500	0.85	120	600	2890	400	2590	722.5	2320	2990	722.5	64.5	535.5	120	1963.495	1472.622	2210850	325.88	639854.066	2850704.1	736310.8	persegi	belum luluh	C	15660	441786	8E+07	56.97	-79.35	BLM LULUH	48.42	892106.66	-155795.88	382744659.34	382.74
BLK 11 LT 9	30	500	0.85	120	600	2890	400	2590	722.5	2320	2990	722.5	64.5	535.5	120	3436.117	1472.622	2210850	325.88	1119744.62	3330594.6	736310.8	persegi	belum luluh	C	15660	1325359	1E+08	59.08	-54.99	BLM LULUH	50.22	925275.12	-188964.34	383248099.88	383.25
BLK 11 LT 8	30	500	0.85	120	600	2890	400	2540	722.5	2320	2940	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 7	30	500	0.85	120	600	2890	400	2540	722.5	2320	2940	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 6	30	500	0.85	120	600	2890	400	2540	722.5	2320	2940	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 5	30	500	0.85	120	600	2890	400	2540	722.5	2320	2940	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 4	30	500	0.85	120	600	2890	400	2490	722.5	2320	2890	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 3	30	500	0.85	120	600	2890	400	2490	722.5	2320	2890	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 2	30	500	0.85	120	600	2890	400	2490	722.5	2320	2890	722.5	64.5	535.5	120	2945.243	1472.622	2210850	325.88	959781.099	3170631.1	736310.8	persegi	belum luluh	C	15660	1030835	1E+08	58.53	-61.21	BLM LULUH	49.75	916580.24	-180269.46	383121901.42	383.12
BLK 11 LT 1	30	500	0.85	150	600	2890	400	2490	722.5	2800	2890	722.5	64.5	535.5	150	2945.243	981.7477	2763563	380.7	1121254.05	3884816.6	490873.9	persegi	belum luluh	C	15660	1276272	1E+08	53.80	-119.38	BLM LULUH	45.73	842465.21	-351591.36	266278832.34	266.28
BLK 100 LT 9	30	500	0.85	120	600	5200	400	4600	1300	2320	5000	1300	61.5	538.5	120	1134.115	850.5862	3978000	338.63	384039.674	4362039.7	425293.1	persegi	belum luluh	C	28178	255176	4E+07	34.28	-476.58	BLM LULUH	29.13	965789.59	-540496.49	248192250.87	248.19
BLK 108 ATAP	30	500	0.85	120	500	1500	300	1200	375	2220	1500	375	61.5	438.5	120	855.5862	850.5862	1147500	338.63	289722.881	1437222.9	425293.1	persegi	belum luluh	C	8128	88058.6	3E+07	57.14	-45.77	BLM LULUH	48.57	464451.45	-39158.34	177620041.43	177.62
BLK 108 LT 9	30	500	0.85	120	500	1500	300	1200	375	2220	1500	375	61.5	438.5	120	1134.115	567.0575	1147500	338.63	384039.674	1531539.7	283528.7	persegi	belum luluh	C	8128	396940	4E+07	51.38	-118.22	BLM LULUH	43.67	417600.50	-134071.76	123454323.93	123.45
BLK 108 LT 8	30	500	0.85	120	500	1500	300	1150	375	2220	1450	375	61.5	438.5	120	850.5862	567.0575	1147500	338.63	288029.756	1435529.8	283528.7	persegi	belum luluh	C	8128	226823	3E+07	49.74	-141.93	BLM LULUH	42.27	404253.10	-120724.36	123207033.09	123.21
BLK 108 LT 7	30	500	0.85	120	500	1500	300	1150	375	2220	1450	375	61.5	438.5	120	850.5862	567.0575	1147500	338.63	288029.756	1435529.8	283528.7	persegi	belum luluh	C	8128	226823	3E+07	49.74	-141.93	BLM LULUH	42.27	404253.10	-120724.36	123207033.09	123.21
BLK 108 LT 6	30	500	0.85	120	500	1500	300	1150	375	2220	1450	375	61.5	438.5	120	850.5862	567.0575	1147500	338.63	288029.756	1435529.8	283528.7	persegi	belum luluh	C	8128	226823	3E+07	49.74	-141.93	BLM LULUH	42.27	404253.10	-120724.36	123207033.09	123.21

Tabel Momen kapasitas positif balok

Balok	fc	fy	Beta	hf	h	L	bw	ln	be			be	d'	d	a	As'	As	Cc	fs'	Cs'	Ca	T	balok/T	Luluh/blm	Cari	A	B	Co	C	fs'	L/BLM	a	Cc	Cs	Mpr+	
BLK 108 LT 5	30	500	0.85	120	500	1500	300	1150	375	2220	1450	375	61.5	438.5	120	850.586	567.0575	1147500	338.63	288029.756	1435529.76	283528.7	persegi	belum luluh	C	8128.1	226823	3E+07	49.74	-141.93	BLM LULUH	42.27	404253.10	-120724.36	123207033.09	123.21
BLK 108 LT 4	30	500	0.85	120	500	1500	300	1100	375	2220	1400	375	61.5	438.5	120	1134.115	567.0575	1147500	338.63	384039.674	1531539.67	283528.7	persegi	belum luluh	C	8128.1	396940	4E+07	51.38	-118.22	BLM LULUH	43.67	417600.50	-134071.76	123454323.93	123.45
BLK 108 LT 3	30	500	0.85	120	500	1500	300	1100	375	2220	1400	375	61.5	438.5	120	1134.115	567.0575	1147500	338.63	384039.674	1531539.67	283528.7	persegi	belum luluh	C	8128.1	396940	4E+07	51.38	-118.22	BLM LULUH	43.67	417600.50	-134071.76	123454323.93	123.45
BLK 108 LT 2	30	500	0.85	120	500	1500	300	1100	375	2220	1400	375	61.5	438.5	120	1134.115	567.0575	1147500	338.63	384039.674	1531539.67	283528.7	persegi	belum luluh	C	8128.1	396940	4E+07	51.38	-118.22	BLM LULUH	43.67	417600.50	-134071.76	123454323.93	123.45
BLK 131 LT 1	30	500	0.85	150	600	10310	400	9910	2578	2800	10310	2578	61.5	538.5	150	5890.486	3436.117	9858938	390.9	2302591.07	12161528.6	1718058	persegi	belum luluh	C	55867	2E+06	2E+08	48.20	-165.51	BLM LULUH	40.97	2692985.39	-974926.91	929962985.44	929.96
BLK 100 ATAP	30	500	0.85	120	600	5200	400	4600	1300	2320	5000	1300	61.5	538.5	120	1150.115	1134.115	3978000	338.63	389457.674	4367457.67	567057.5	persegi	belum luluh	C	28178	123011	4E+07	36.69	-405.79	BLM LULUH	31.18	1033763.48	-466706.01	317944212.63	317.94
BLK 100 LT 8	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1134.115	850.5862	3978000	338.63	384039.674	4362039.67	425293.1	persegi	belum luluh	C	28178	255176	4E+07	34.28	-476.58	BLM LULUH	29.13	965789.59	-540496.49	248192250.87	248.19
BLK 100 LT 7	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1417.644	850.5862	3978000	338.63	480049.593	4458049.59	425293.1	persegi	belum luluh	C	28178	425293	5E+07	36.20	-419.45	BLM LULUH	30.77	1019917.13	-594624.02	249899956.78	249.90
BLK 100 LT 6	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1417.644	850.5862	3978000	338.63	480049.593	4458049.59	425293.1	persegi	belum luluh	C	28178	425293	5E+07	36.20	-419.45	BLM LULUH	30.77	1019917.13	-594624.02	249899956.78	249.90
BLK 100 LT 5	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1701.172	850.5862	3978000	338.63	576059.511	4554059.51	425293.1	persegi	belum luluh	C	28178	595410	6E+07	37.80	-376.14	BLM LULUH	32.13	1065167.52	-639874.41	251259765.38	251.26
BLK 100 LT 4	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1701.172	850.5862	3978000	338.63	576059.511	4554059.51	425293.1	persegi	belum luluh	C	28178	595410	6E+07	37.80	-376.14	BLM LULUH	32.13	1065167.52	-639874.41	251259765.38	251.26
BLK 100 LT 3	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1701.172	1134.115	3978000	338.63	576059.511	4554059.51	567057.5	persegi	belum luluh	C	28178	453646	6E+07	39.83	-326.41	BLM LULUH	33.86	1122340.55	-555283.08	320511138.71	320.51
BLK 100 LT 2	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1417.644	850.5862	3978000	338.63	480049.593	4458049.59	425293.1	persegi	belum luluh	C	28178	425293	5E+07	36.20	-419.45	BLM LULUH	30.77	1019917.13	-594624.02	249899956.78	249.90
BLK 100 LT 1	30	500	0.85	150	600	5200	400	4400	1300	2800	4800	1300	61.5	538.5	150	1417.644	850.5862	4972500	390.9	554156.917	5526656.92	425293.1	persegi	belum luluh	C	28178	425293	5E+07	36.20	-419.45	BLM LULUH	30.77	1019917.13	-594624.02	249899956.78	249.90
BLK 101 ATAP	30	500	0.85	120	600	5200	400	4600	1300	2320	5000	1300	61.5	538.5	120	1150.115	1134.115	3978000	338.63	389457.674	4367457.67	567057.5	persegi	belum luluh	C	28178	123011	4E+07	36.69	-405.79	BLM LULUH	31.18	1033763.48	-466706.01	317944212.63	317.94
BLK 101 LT 9	30	500	0.85	120	600	5200	400	4600	1300	2320	5000	1300	61.5	538.5	120	1701.172	1134.115	3978000	338.63	576059.511	4554059.51	567057.5	persegi	belum luluh	C	28178	453646	6E+07	39.83	-326.41	BLM LULUH	33.86	1122340.55	-555283.08	320511138.71	320.51
BLK 101 LT 8	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1701.172	850.5862	3978000	338.63	576059.511	4554059.51	425293.1	persegi	belum luluh	C	28178	595410	6E+07	37.80	-376.14	BLM LULUH	32.13	1065167.52	-639874.41	251259765.38	251.26
BLK 101 LT 7	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1701.172	1134.115	3978000	338.63	576059.511	4554059.51	567057.5	persegi	belum luluh	C	28178	453646	6E+07	39.83	-326.41	BLM LULUH	33.86	1122340.55	-555283.08	320511138.71	320.51
BLK 101 LT 6	30	500	0.85	120	600	5200	400	4500	1300	2320	4900	1300	61.5	538.5	120	1984.701	1134.115	3978000	338.63	672069.43	4650069.43	567057.5	persegi	belum luluh	C	28178	623763	7E+07	41.10	-297.80	BLM LULUH	34.94	1158105.69	-591048.22	321480521.63	321.48
BLK 101 LT 5	30	500	0.85	150	600	5200	400	4500	1300	2800	4900	1300	61.5	538.5	150	1134.115	850.5862	4972500	390.9	443325.533	5415825.53	425293.1	persegi	belum luluh	C	28178	255176	4E+07	34.28	-476.58	BLM LULUH	29.13	965789.59	-540496.49	248192250.87	248.19
BLK 101 LT 4	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1701.172	1134.115	3978000	338.63	576059.511	4554059.51	567057.5	persegi	belum luluh	C	28178	453646	6E+07	39.83	-326.41	BLM LULUH	33.86	1122340.55	-555283.08	320511138.71	320.51
BLK 101 LT 3	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1701.172	850.5862	3978000	338.63	576059.511	4554059.51	425293.1	persegi	belum luluh	C	28178	595410	6E+07	37.80	-376.14	BLM LULUH	32.13	1065167.52	-639874.41	251259765.38	251.26
BLK 101 LT 2	30	500	0.85	120	600	5200	400	4400	1300	2320	4800	1300	61.5	538.5	120	1984.701	850.5862	3978000	338.63	672069.43	4650069.43	425293.1	persegi	belum luluh	C	28178	765528	7E+07	39.18	-341.91	BLM LULUH	33.30	1103876.93	-678583.83	252373992.62	252.37
BLK 101 LT 1	30	500	0.85	150	600	5200	400	4400	1300	2800	4800	1300	61.5	538.5	150	1134.115	850.5862	4972500	390.9	443325.533	5415825.53	425293.1	persegi	belum luluh	C	28178	255176	4E+07	34.28	-476.58	BLM LULUH	29.13	965789.59	-540496.49	248192250.87	248.19

Tabel Momen kapasitas negatif balok

BALOK	fc	fy	Beta	hf	be	h	d'	b	d	a	As'	As	ρ-ρ'		L/BLM	A	B	Co	C	a	fs'	L/BLM	Mpr-	
BLK 66 LT 9	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	2945.2431	0.00333701	0.02280959	blm luluh	8670	-294524.3	75987271.98	112.131931	95.3121414	254.870833	luluh	1004504456	1004.5045
BLK 66 ATAP	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	2945.24311	0.00333701	0.02280959	blm luluh	8670	-294524.3	75987272.32	112.131931	95.3121417	254.870834	luluh	1004504460	1004.5045
BLK 66 LT 8	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	2945.24311	0.00333701	0.02280959	blm luluh	8670	-294524.3	75987272.32	112.131931	95.3121417	254.870834	luluh	1004504460	1004.5045
BLK 66 LT 7	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	2945.24311	0.00333701	0.02280959	blm luluh	8670	-294524	75987272.32	112.131931	95.3121417	254.870834	luluh	1004504460	1004.5045
BLK 66 LT 6	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	3436.11697	0.00500551	0.02280959	blm luluh	8670	-539961.2	75987272.32	129.801014	110.330862	301.851327	luluh	1163322131	1163.3221
BLK 66 LT 5	30	500	0.85	120	2320	800	64.5	400	735.5	120	1472.6216	3436.11697	0.00667402	0.02280959	blm luluh	8670	-834486	56990454.24	142.407963	121.046768	328.245533	luluh	1157727078	1157.7271
BLK 66 LT 4	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	3436.11697	0.00500551	0.02280959	blm luluh	8670	-539961.2	75987272.32	129.801014	110.330862	301.851327	luluh	1163322131	1163.3221
BLK 66 LT 3	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	3436.11697	0.00500551	0.02280959	blm luluh	8670	-539961.2	75987272.32	129.801014	110.330862	301.851327	luluh	1163322131	1163.3221
BLK 66 LT 2	30	500	0.85	120	2320	800	64.5	400	735.5	120	1963.4954	3436.11697	0.00500551	0.02280959	blm luluh	8670	-539961.2	75987272.32	129.801014	110.330862	301.851327	luluh	1163322131	1163.3221
BLK 66 LT 1	30	500	0.85	150	2437.5	800	64.5	400	735.5	150	2454.3693	3436.11697	0.00333701	0.02280959	blm luluh	8670	-245436.9	94984090.4	119.775567	101.809232	276.895707	luluh	1166935425	1166.9354
BLK 11 ATAP	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	1963.49541	0.00227889	0.02970501	blm luluh	8670	-98174.77	54339735.44	85.0318611	72.2770819	166.045015	luluh	486990788	486.9908
BLK 11 LT 9	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	3436.11697	0.00911558	0.02970501	blm luluh	8670	-834485.5	54339735.44	140.772411	119.65655	337.874775	luluh	821554232	821.5542
BLK 11 LT 8	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589048.6	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 7	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589048.6	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 6	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589049	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 5	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589048.6	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 4	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589049	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 3	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589048.6	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 2	30	500	0.85	120	722.5	600	61.5	400	538.5	120	1472.6216	2945.24311	0.00683668	0.02970501	blm luluh	8670	-589049	54339735.44	120.118952	102.10111	292.804514	luluh	713322862	713.3229
BLK 11 LT 1	30	500	0.85	150	722.5	600	61.5	400	538.5	150	981.7477	2945.24311	0.00911558	0.02970501	blm luluh	8670	-883572.9	36226490.29	133.265315	113.275518	323.108748	luluh	708058366	708.0584
BLK 100 LT 9	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1134.11495	0.00131629	0.02970501	blm luluh	8670	-56705.75	31386631.19	63.5266497	53.9976522	19.1414124	luluh	289488835	289.4888
BLK 108 ATAP	30	500	0.85	120	375	500	61.5	300	538.5	120	850.5862	855.586211	3.095E-05	0.02970501	blm luluh	6503	82558.621	31386631.19	63.4167835	53.904266	18.1351059	luluh	218303734	218.3037
BLK 108 LT 9	30	500	0.85	120	375	500	61.5	300	538.5	120	567.0575	1134.11495	0.00351011	0.02970501	blm luluh	6503	-226823	20924420.79	76.7884967	65.2702222	119.459274	luluh	284899151	284.8992
BLK 108 LT 8	30	500	0.85	120	375	500	61.5	300	538.5	120	567.0575	850.586211	0.00175505	0.02970501	blm luluh	6503	-85058.62	20924420.79	63.6428332	54.0964082	20.2018019	luluh	217122257	217.1223
BLK 108 LT 7	30	500	0.85	120	375	500	61.5	300	538.5	120	567.0575	850.586211	0.00175505	0.02970501	blm luluh	6503	-85058.62	20924420.79	63.6428332	54.0964082	20.2018019	luluh	217122257	217.1223
BLK 108 LT 6	30	500	0.85	120	375	500	61.5	300	538.5	120	567.0575	850.586211	0.00175505	0.02970501	blm luluh	6503	-85058.62	20924420.79	63.6428332	54.0964082	20.2018019	luluh	217122257	217.1223

Tabel Momen kapasitas negatif balok

BALOK	fc	fy	Beta	hf	be	h	d'	b	d	a	As'	As	ρ-ρ'		L/BLM	A	B	Co	C	a	fs'	L/BLM	Mpr-	
BLK 108 LT 5	30	500	0.85	120	375	500	61.5	300	438.5	120	567.0575	850.5862	0.00215529	0.03647925	blm luluh	6502.5	-85058.6	20924420.79	63.6428332	54.0964082	20.2018019	LULUH	2E+08	174.5929
BLK 108 LT 4	30	500	0.85	120	375	500	61.5	300	438.5	120	567.0575	1134.1149	0.00431059	0.03647925	blm luluh	6502.5	-226823	20924420.79	76.7884967	65.2702222	119.459274	LULUH	2E+08	228.1934
BLK 108 LT 3	30	500	0.85	120	375	500	61.5	300	438.5	120	567.0575	1134.1149	0.00431059	0.03647925	blm luluh	6502.5	-226823	20924420.79	76.7884967	65.2702222	119.459274	LULUH	2E+08	228.1934
BLK 108 LT 2	30	500	0.85	120	375	500	61.5	300	438.5	120	567.0575	1134.1149	0.00431059	0.03647925	blm luluh	6502.5	-226823	20924420.79	76.7884967	65.2702222	119.459274	LULUH	2E+08	228.1934
BLK 131 LT 1	30	500	0.85	150	2578	600	61.5	400	538.5	150	3436.1170	5890.4862	0.01139447	0.02970501	blm luluh	8670	-883572.9	126792716	182.183786	154.856218	397.457277	LULUH	1E+09	1379.7220
BLK 100 ATAP	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1150.1149	7.428E-05	0.02970501	blm luluh	8670	105411	41848841.58	63.6619366	54.1126461	20.3757859	LULUH	3E+08	293.3136
BLK 100 LT 8	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1134.1149	0.00131629	0.02970501	blm luluh	8670	-56705.75	31386631.19	63.5266497	53.9976522	19.1414124	LULUH	3E+08	289.4888
BLK 100 LT 7	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1417.6437	0.00263258	0.02970501	blm luluh	8670	-198470.1	31386631.19	72.6924152	61.7885529	92.3817031	LULUH	4E+08	357.3971
BLK 100 LT 6	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1417.6437	0.00263258	0.02970501	blm luluh	8670	-198470.1	31386631.19	72.6924152	61.7885529	92.3817031	LULUH	4E+08	357.3971
BLK 100 LT 5	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1701.1724	0.00394887	0.02970501	blm luluh	8670	-340234.5	31386631.19	82.9075413	70.4714101	154.925892	LULUH	4E+08	424.6086
BLK 100 LT 4	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1701.1724	0.00394887	0.02970501	blm luluh	8670	-340234.5	31386631.19	82.9075413	70.4714101	154.925892	LULUH	4E+08	424.6086
BLK 100 LT 3	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1701.1724	0.00263258	0.02970501	blm luluh	8670	-170117.2	41848841.58	79.9755282	67.979199	138.608861	LULUH	4E+08	424.8050
BLK 100 LT 2	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1417.6437	0.00263258	0.02970501	blm luluh	8670	-198470.1	31386631.19	72.6924152	61.7885529	92.3817031	LULUH	4E+08	357.3971
BLK 100 LT 1	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1417.6437	0.00263258	0.02970501	blm luluh	8670	-198470.1	31386631.19	72.6924152	61.7885529	92.3817031	LULUH	4E+08	357.3971
BLK 101 ATAP	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1150.1149	7.428E-05	0.02970501	blm luluh	8670	105411	41848841.58	63.6619366	54.1126461	20.3757859	LULUH	3E+08	293.3136
BLK 101 LT 9	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1701.1724	0.00263258	0.02970501	blm luluh	8670	-170117.2	41848841.58	79.9755282	67.979199	138.608861	LULUH	4E+08	424.8050
BLK 101 LT 8	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1701.1724	0.00394887	0.02970501	blm luluh	8670	-340234	31386631.19	82.9075413	70.4714101	154.925892	LULUH	4E+08	424.6086
BLK 101 LT 7	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1701.1724	0.00263258	0.02970501	blm luluh	8670	-170117.2	41848841.58	79.9755282	67.979199	138.608861	LULUH	4E+08	424.8050
BLK 101 LT 6	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1984.7012	0.00394887	0.02970501	blm luluh	8670	-311882	41848841.58	89.7522696	76.2894291	188.868335	LULUH	5E+08	491.5252
BLK 101 LT 5	30	500	0.85	150	1300	600	61.5	400	538.5	150	850.5862	1134.1149	0.00131629	0.02970501	blm luluh	8670	-56705.75	31386631.19	63.5266497	53.9976522	19.1414124	LULUH	3E+08	289.4888
BLK 101 LT 4	30	500	0.85	120	1300	600	61.5	400	538.5	120	1134.1149	1701.1724	0.00263258	0.02970501	blm luluh	8670	-170117.2	41848841.58	79.9755282	67.979199	138.608861	LULUH	4E+08	424.8050
BLK 101 LT 3	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1701.1724	0.00394887	0.02970501	blm luluh	8670	-340234.5	31386631.19	82.9075413	70.4714101	154.925892	LULUH	4E+08	424.6086
BLK 101 LT 2	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1984.7012	0.00526516	0.02970501	blm luluh	8670	-481998.9	31386631.19	94.0752241	79.9639405	207.7607	LULUH	5E+08	490.9020
BLK 101 LT 1	30	500	0.85	120	1300	600	61.5	400	538.5	120	850.5862	1134.1149	0.00131629	0.02970501	blm luluh	8670	-56705.75	31386631.19	63.5266497	53.9976522	19.1414124	LULUH	3E+08	289.4888

Tabel Penulangan geser balok di daerah sendi plastis

No Balok	Jenis	Nilai Momen	b kol	l blk	ln	Ve	b	h	hf	qblk	DL	LL	quplat	qblk	bbnplat	Vg	Vu kiri	Vu kanan	Gaya Gempa Kiri2		Gaya Gempa Kanan2		Vu terpakai	Vn (N)	b	h	tul		
																			Vu kiri	Vu kanan	Vu kiri	Vu kanan							
BLK 66	Mpr -	1004.5045	0.6	9.75	9.15	192.291	0.40	0.8	120	6.5	4.62	2.5	8.0	71.7	297.6	184.6527	376.944	376.944	376.944	192.291	192.291	376.944	376.944	502592.06	400	800	25	12	40
LT 9	Mpr+	754.96119																									25	12	40
BLK 66	Mpr -	1004.5045	0.6	9.75	9.15	192.291	0.40	0.8	120	6.5	4.62	2.5	8.0	71.7	297.6	184.6527	376.944	376.944	376.944	192.291	192.291	376.944	376.944	502592	400	800	25	12	40
ATAP	Mpr+	754.96119																									25	12	40
BLK 66	Mpr -	1004.5045	0.7	9.75	9.05	194.416	0.40	0.8	120	6.5	4.62	2.5	8.0	70.9	297.6	184.2610	378.677	378.677	378.677	194.416	194.416	378.677	378.677	504903	400	800	25	12	40
LT 8	Mpr+	754.96119																									25	12	40
BLK 66	Mpr -	1004.5045	0.7	9.75	9.05	194.416	0.40	0.8	120	6.5	4.62	2.5	8.0	70.9	297.6	184.2610	378.677	378.677	378.677	194.416	194.416	378.677	378.677	504903	400	800	25	12	40
LT 7	Mpr+	754.96119																									25	12	40
BLK 66	Mpr -	1163.3221	0.7	9.75	9.05	212.188	0.40	0.8	120	6.5	4.62	2.5	8.0	70.9	297.6	184.2610	396.449	396.449	396.449	212.188	212.188	396.449	396.449	528599	400	800	25	12	40
LT 6	Mpr+	756.98074																									25	12	40
BLK 66	Mpr -	1157.7271	0.7	9.75	9.05	193.060	0.40	0.8	120	6.5	4.62	2.5	8.0	70.9	297.6	184.2610	377.321	377.321	377.321	193.060	193.060	377.321	377.321	503095	400	800	25	12	40
LT 5	Mpr+	589.46589																									25	12	40
BLK 66	Mpr -	1163.3221	0.8	9.75	8.95	214.559	0.40	0.8	120	6.5	4.62	2.5	8.0	70.1	297.6	183.8694	398.428	398.428	398.428	214.559	214.559	398.428	398.428	531238	400	800	25	12	40
LT 4	Mpr+	756.98074																									25	12	40
BLK 66	Mpr -	1163.3221	0.8	9.75	8.95	214.559	0.40	0.8	120	6.5	4.62	2.5	8.0	70.1	297.6	183.8694	398.428	398.428	398.428	214.559	214.559	398.428	398.428	531238	400	800	25	12	40
LT 3	Mpr+	756.98074																									25	12	40
BLK 66	Mpr -	1163.3221	0.8	9.75	8.95	214.559	0.40	0.8	120	6.5	4.62	2.5	8.0	70.1	297.6	183.8694	398.428	398.428	398.428	214.559	214.559	398.428	398.428	531238	400	800	25	12	40
LT 2	Mpr+	756.98074																									25	12	40
BLK 66	Mpr -	1166.9354	0.8	9.75	8.95	234.104	0.40	0.8	150	6.2	5.34	2.5	8.9	67.0	329.6	198.3068	432.410	432.410	432.410	234.104	234.104	432.410	432.410	576547	400	800	25	12	40
LT 1	Mpr+	928.29207																									25	12	40
BLK 11	Mpr -	486.99079	0.6	2.89	2.59	335.805	0.40	0.6	120	4.6	4.62	2.5	8.0	14.3	67.4	40.8692	376.674	376.674	376.674	335.805	335.805	376.674	376.674	502233	400	600	25	12	40
ATAP	Mpr+	382.74466																									25	12	40
BLK 11	Mpr -	821.55423	0.6	2.89	2.59	465.175	0.40	0.6	120	4.6	4.62	2.5	8.0	14.3	67.4	40.8692	506.044	506.044	506.044	465.175	465.175	506.044	506.044	674725	400	600	25	12	40
LT 9	Mpr+	383.2481																									25	12	40
BLK 11	Mpr -	713.32286	0.7	2.89	2.54	431.671	0.40	0.6	120	4.6	4.62	2.5	8.0	14.0	68.6	41.3122	472.983	472.983	472.983	431.671	431.671	472.983	472.983	630644	400	600	25	12	40
LT 8	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.7	2.89	2.54	431.671	0.40	0.6	120	4.6	4.62	2.5	8.0	14.0	68.6	41.3122	472.983	472.983	472.983	431.671	431.671	472.983	472.983	630644	400	600	25	12	40
LT 7	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.7	2.89	2.54	431.671	0.40	0.6	120	4.6	4.62	2.5	8.0	14.0	68.6	41.3122	472.983	472.983	472.983	431.671	431.671	472.983	472.983	630644	400	600	25	12	40
LT6	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.7	2.89	2.54	431.671	0.40	0.6	120	4.6	4.62	2.5	8.0	14.0	68.6	41.3122	472.983	472.983	472.983	431.671	431.671	472.983	472.983	630644	400	600	25	12	40
LT 5	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.8	2.89	2.49	440.339	0.40	0.6	120	4.6	4.62	2.5	8.0	13.8	69.7	41.7551	482.094	482.094	482.094	440.339	440.339	482.094	482.094	642792	400	600	25	12	40
LT 4	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.8	2.89	2.49	440.339	0.40	0.6	120	4.6	4.62	2.5	8.0	13.8	69.7	41.7551	482.094	482.094	482.094	440.339	440.339	482.094	482.094	642792	400	600	25	12	40
LT 3	Mpr+	383.1219																									25	12	40
BLK 11	Mpr -	713.32286	0.8	2.89	2.49	440.339	0.40	0.6	120	4.6	4.62	2.5	8.0	13.8	69.7	41.7551	482.094	482.094	482.094	440.339	440.339	482.094	482.094	642792	400	600	25	12	40
LT 2	Mpr+	383.1219																									25	12	40

d'	d	Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Spsi max			Dipakai
															1	2	3	Sengkang
64.5	736	268566.6	butuh tul gsr	Vc = 0	502592.1	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	148.96	198.61	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	502592	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	148.96	198.61	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	504903	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	148.28	197.70	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	504903	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	148.28	197.70	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	528599	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	141.63	188.84	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	503095	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	148.81	198.41	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	531238	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	140.93	187.90	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	531238	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	140.93	187.90	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	531238	1074266.5	537133.3	Ok	spasi bgi 2	339.292	452.389	140.93	187.90	183.875	200	288	300	3P12-100
64.5	736	268566.6	butuh tul gsr	Vc = 0	576547	1074266.5	537133.3	Ok	spasi bgi 4	339.292	452.389	129.85	173.13	183.875	200	288	300	3P12-100
64.5	536	195537.0	butuh tul gsr	Vc = 0	502233	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	108.53	144.71	133.875	200	288	300	3P12-100
64.5	536	195537.0	butuh tul gsr	Vc = 0	674725	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	80.78	107.71	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	630644	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	86.43	115.24	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	630644	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	86.43	115.24	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	630644	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	86.43	115.24	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	630644	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	86.43	115.24	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	642792	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	84.80	113.06	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	642792	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	84.80	113.06	133.875	200	288	300	3P12-50
64.5	536	195537.0	butuh tul gsr	Vc = 0	642792	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	84.80	113.06	133.875	200	288	300	3P12-50

Tabel Penulangan geser balok di daerah sendi plastis

No Balok	Jenis	Nilai Momen	b Kol	l blk	ln	Ve	b	h	hf	q blk	DL	LL	quplat	qblk	bbnplat	Vg	Vu kiri	Vu kanan	Gaya Gempa Kiri2		Gaya Gempa Kanan2		Vu terpakai	Vn (N)
																			Vu kiri	Vu kanan	Vu kiri	Vu kanan		
BLK 11	Mpr -	708.05837	0.8	2.89	2.49	391.300	0.40	0.6	150	4	5.34	2.5	8.9	12.9	77.2	45.0703	436.370	436.370	436.370	391.300	391.300	436.370	436.370	581827.12
LT 1	Mpr+	266.27883																						
BLK 100	Mpr -	289.48884	0.6	5.2	4.6	116.887	0.40	0.6	120	5	4.62	2.5	8.0	25.4	121.9	73.6514	190.539	190.539	190.539	116.887	116.887	190.539	190.539	254051
LT 9	Mpr+	248.19225																						
BLK 108	Mpr -	217.10253	0.6	1.5	1.2	328.934	0.30	0.5	120	3	4.62	2.5	8.0	3.9	35.0	19.4656	348.400	348.400	348.400	328.934	328.934	348.400	348.400	464533
ATAP	Mpr+	177.61869																						
BLK 108	Mpr -	284.89915	0.6	1.5	1.2	340.295	0.30	0.5	120	3	4.62	2.5	8.0	3.9	35.0	19.4656	359.760	359.760	359.760	340.295	340.295	359.760	359.760	479680
LT 9	Mpr+	123.45432																						
BLK 108	Mpr -	217.12226	0.7	1.5	1.15	295.939	0.30	0.5	120	3	4.62	2.5	8.0	3.8	35.6	19.6852	315.624	315.624	315.624	295.939	295.939	315.624	315.624	420832
LT 8	Mpr+	123.20703																						
BLK 108	Mpr -	217.12226	0.7	1.5	1.15	295.939	0.30	0.5	120	3	4.62	2.5	8.0	3.8	35.6	19.6852	315.624	315.624	315.624	295.939	295.939	315.624	315.624	420832
LT 7	Mpr+	123.20703																						
BLK 108	Mpr -	217.12226	0.7	1.5	1.15	295.939	0.30	0.5	120	3	4.62	2.5	8.0	3.8	35.6	19.6852	315.624	315.624	315.624	295.939	295.939	315.624	315.624	420832
LT6	Mpr+	123.20703																						
BLK 108	Mpr -	174.59295	0.7	1.5	1.15	258.957	0.30	0.5	120	3	4.62	2.5	8.0	3.8	35.6	19.6852	278.642	278.642	278.642	258.957	258.957	278.642	278.642	371522
LT 5	Mpr+	123.20703																						
BLK 108	Mpr -	228.1934	0.8	1.5	1.1	319.680	0.30	0.5	120	3	4.62	2.5	8.0	3.6	36.2	19.9048	339.585	339.585	339.585	319.680	319.680	339.585	339.585	452779
LT 4	Mpr+	123.45432																						
BLK 108	Mpr -	228.1934	0.8	1.5	1.1	319.680	0.30	0.5	120	3	4.62	2.5	8.0	3.6	36.2	19.9048	339.585	339.585	339.585	319.680	319.680	339.585	339.585	452779
LT 3	Mpr+	123.45432																						
BLK 108	Mpr -	228.1934	0.8	1.5	1.1	319.680	0.30	0.5	120	3	4.62	2.5	8.0	3.6	36.2	19.9048	339.585	339.585	339.585	319.680	319.680	339.585	339.585	452779
LT 2	Mpr+	123.45432																						
BLK 131	Mpr -	1379.722	0.8	10.31	9.91	233.066	0.40	0.6	150	4	5.34	2.5	8.9	51.4	275.5	163.4489	396.515	396.515	396.515	233.066	233.066	396.515	396.515	528687
LT 1	Mpr+	929.96299																						
BLK 100	Mpr -	289.47004	0.6	5.2	4.6	132.026	0.40	0.6	120	5	4.62	2.5	8.0	25.4	121.9	73.6514	205.678	205.678	205.678	132.026	132.026	205.678	205.678	274237
ATAP	Mpr+	317.85064																						
BLK 100	Mpr -	289.48884	0.7	5.2	4.5	119.485	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	192.141	192.141	192.141	119.485	119.485	192.141	192.141	256188
LT 8	Mpr+	248.19225																						
BLK 100	Mpr -	357.39707	0.7	5.2	4.5	134.955	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	207.611	207.611	207.611	134.955	134.955	207.611	207.611	276814
LT7	Mpr+	249.89996																						
BLK 100	Mpr -	357.39707	0.7	5.2	4.5	134.955	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	207.611	207.611	207.611	134.955	134.955	207.611	207.611	276814
LT 6	Mpr+	249.89996																						
BLK 100	Mpr -	424.60862	0.7	5.2	4.5	150.193	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	222.849	222.849	222.849	150.193	150.193	222.849	222.849	297132
LT 5	Mpr+	251.25977																						
BLK 100	Mpr -	424.60862	0.8	5.2	4.4	153.606	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	225.227	225.227	225.227	153.606	153.606	225.227	225.227	300302
LT 4	Mpr+	251.25977																						
BLK 100	Mpr -	424.805	0.8	5.2	4.4	169.390	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	241.010	241.010	241.010	169.390	169.390	241.010	241.010	321347
LT 3	Mpr+	320.51114																						

b	h	tul			d'	d	Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Spsi max			Dipakai
																				1	2	3	Sengkang
400	600	25 25	12 12	40 40	64.5	536	195537.0	butuh tul gsr	Vc = 0	581827.1	782147.8	391073.9	Ok	spasi bgi 4	339.292	452.389	93.68	124.91	133.875	200	288	300	3P12-75
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	254051	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	215.7540	287.67	134.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	464533	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	96.08	128.11	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	479680	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	93.05	124.07	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	420832	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	106.06	141.41	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	420832	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	106.06	141.41	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	420832	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	106.06	141.41	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	371522	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	120.14	160.18	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	452779	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	98.58	131.44	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	452779	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	98.58	131.44	109.625	200	288	300	3P12-75
300	500	19 19	12 12	40 40	61.5	439	120088.2	butuh tul gsr	Vc = 0	452779	480352.7	240176.3	Ok	spasi bgi 4	339.292	452.389	98.58	131.44	109.625	200	288	300	3P12-75
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	528687	786529.6	393264.8	Ok	spasi bgi 4	339.292	452.389	103.68	138.24	134.625	200	288	300	3P12-75
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	274237	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	199.87	266.50	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	256188	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	213.96	285.27	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	276814	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	198.01	264.02	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	276814	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	198.01	264.02	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	297132	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	184.47	245.96	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	300302	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	182.52	243.37	134.625	200	288	300	3P12-150
400	600	19 19	12 12	40 40	61.5	539	196632.4	butuh tul gsr	Vc = 0	321347	786529.6	393264.8	Ok	spasi bgi 2	339.292	452.389	170.57	227.43	134.625	200	288	300	3P12-150

Tabel Penulangan geser balok di daerah sendi plastis

No Balok	Jenis	Nilai Momen	b kol	l blk	ln	Ve	b	h	hf	qblk	DL	LL	quplat	qblk	bbnplat	Vg	Vu kiri	Vu kanan	Gaya Gempa Kiri2		Gaya Gempa Kanan2		Vu terpakai	Vn (N)	b
																			Vu kiri	Vu kanan	Vu kiri	Vu kanan			
BLK 100	Mpr -	357.39707	0.8	5.2	4.4	138.022	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	209.642	209.642	209.642	138.022	138.022	209.642	209.642	279523.18	400
LT 2	Mpr+	249.89996																							
BLK 100	Mpr -	357.39707	0.8	5.2	4.4	138.022	0.40	0.6	150	4	5.34	2.5	8.9	22.8	131.7	77.2461	215.268	215.268	215.268	138.022	138.022	215.268	215.268	287024	400
LT 1	Mpr+	249.89996																							
BLK 101	Mpr -	289.47004	0.6	5.2	4.6	132.026	0.40	0.6	120	5	4.62	2.5	8.0	25.4	121.9	73.6514	205.678	205.678	205.678	132.026	132.026	205.678	205.678	274237	400
ATAP	Mpr+	317.85064																							
BLK 101	Mpr -	424.805	0.6	5.2	4.6	162.025	0.40	0.6	120	5	4.62	2.5	8.0	25.4	121.9	73.6514	235.677	235.677	235.677	162.025	162.025	235.677	235.677	314236	400
LT 9	Mpr+	320.51114																							
BLK 101	Mpr -	424.60862	0.7	5.2	4.5	150.193	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	222.849	222.849	222.849	150.193	150.193	222.849	222.849	297132	400
LT 8	Mpr+	251.25977																							
BLK 101	Mpr -	424.805	0.7	5.2	4.5	165.626	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	238.282	238.282	238.282	165.626	165.626	238.282	238.282	317709	400
LT 7	Mpr+	320.51114																							
BLK 101	Mpr -	491.52519	0.7	5.2	4.5	180.668	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	253.324	253.324	253.324	180.668	180.668	253.324	253.324	337765	400
LT6	Mpr+	321.48052																							
BLK 101	Mpr -	289.48884	0.7	5.2	4.5	119.485	0.40	0.6	120	5	4.62	2.5	8.0	24.9	120.4	72.6560	192.141	192.141	192.141	119.485	119.485	192.141	192.141	256188	400
LT 5	Mpr+	248.19225																							
BLK 101	Mpr -	424.805	0.8	5.2	4.4	169.390	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	241.010	241.010	241.010	169.390	169.390	241.010	241.010	321347	400
LT 4	Mpr+	320.51114																							
BLK 101	Mpr -	424.60862	0.8	5.2	4.4	153.606	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	225.227	225.227	225.227	153.606	153.606	225.227	225.227	300302	400
LT 3	Mpr+	251.25977																							
BLK 101	Mpr -	490.90202	0.8	5.2	4.4	168.926	0.40	0.6	120	5	4.62	2.5	8.0	24.3	118.9	71.6203	240.547	240.547	240.547	168.926	168.926	240.547	240.547	320729	400
LT 2	Mpr+	252.37399																							
BLK 101	Mpr -	289.48884	0.8	5.2	4.4	122.200	0.40	0.6	150	4	5.34	2.5	8.9	22.8	131.7	77.2461	199.446	199.446	199.446	122.200	122.200	199.446	199.446	265928	400
LT 1	Mpr+	248.19225																							

h	tul			d'	d	Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Spsi max			Dipakai
																			1	2	3	Sengkang
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	279523.2	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	130.73	196.09	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	287024	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	127.3125	190.97	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	274237	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	133.25	199.87	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	314236	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	116.29	174.43	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	297132	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	122.98	184.47	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	317709	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	115.02	172.52	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	337765	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	108.19	162.28	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	256188	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	142.64	213.96	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	321347	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	113.71	170.57	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	300302	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	121.68	182.52	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	320729	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	113.93	170.90	134.625	200	288	300	3D12-100
	19	12	40																			
600	19	12	40	61.5	538.5	196632.4	butuh tul gsr	Vc = 0	265928	786529.6	393264.8	Ok	spasi bgi 2	226.195	339.292	137.41	206.12	134.625	200	288	300	3D12-100
	19	12	40																			

Tabel Penulangan geser balok di daeral luar sendi

No Balok	Jenis	Nilai Momen	*ln*	*h*	*V1*	*V*	*V2h kiri*	*V2h kanan*	Gaya Gempa Kiri		Gaya Gempa Kanan		Vu terpakai	Vn (N)	b	h	tul			d'
									Vu kiri	Vu kanan	Vu kiri	Vu kanan								
BLK 66	Mpr -	1004.50446	9.15	0.80	192.3	376.944	224.580	192.291	224.580	192.291	192.291	224.580	224.580	299440.44	400	800	25	12	40	64.5
LT 9	Mpr+	754.961189															25	12	40	
BLK 66	Mpr -	1004.50446	9.15	0.80	192.3	376.552	224.512	192.291	224.512	192.291	192.291	224.512	224.512	299349	400	800	25	12	40	64.5
ATAP	Mpr+	754.961192															25	12	40	
BLK 66	Mpr -	1004.50446	9.05	0.80	194.4	378.677	226.993	194.416	226.993	194.416	194.416	226.993	226.993	302657	400	800	25	12	40	64.5
LT 8	Mpr+	754.961192															25	12	40	
BLK 66	Mpr -	1004.50446	9.05	0.80	194.4	378.677	226.993	194.416	226.993	194.416	194.416	226.993	226.993	302657	400	800	25	12	40	64.5
LT 7	Mpr+	754.961192															25	12	40	
BLK 66	Mpr -	1163.32213	9.05	0.80	212.2	396.449	244.765	212.188	244.765	212.188	212.188	244.765	244.765	326353	400	800	25	12	40	64.5
LT 6	Mpr+	756.980744															25	12	40	
BLK 66	Mpr -	1157.72708	9.05	0.80	193.1	376.929	225.567	193.060	225.567	193.060	193.060	225.567	225.567	300756	400	800	25	12	40	64.5
LT 5	Mpr+	589.465889															25	12	40	
BLK 66	Mpr -	1163.32213	8.95	0.80	214.6	398.428	247.429	214.559	247.429	214.559	214.559	247.429	247.429	329906	400	800	25	12	40	64.5
LT 4	Mpr+	756.980744															25	12	40	
BLK 66	Mpr -	1163.32213	8.95	0.80	214.6	398.428	247.429	214.559	247.429	214.559	214.559	247.429	247.429	329906	400	800	25	12	40	64.5
LT 3	Mpr+	756.980744															25	12	40	
BLK 66	Mpr -	1163.32213	8.95	0.80	214.6	412.866	250.010	214.559	250.010	214.559	214.559	250.010	250.010	333347	400	800	25	12	40	64.5
LT 2	Mpr+	756.980744															25	12	40	
BLK 66	Mpr -	1166.93542	8.95	0.80	234.1	274.973	241.410	234.104	241.410	234.104	234.104	241.410	241.410	321880	400	800	25	12	40	64.5
LT 1	Mpr+	928.29207															25	12	40	
BLK 11	Mpr -	486.990788	2.59	0.60	335.8	376.674	354.741	335.805	354.741	335.805	335.805	354.741	354.741	472988	400	600	25	12	40	64.5
ATAP	Mpr+	382.744659															25	12	40	
BLK 11	Mpr -	821.554232	2.59	0.60	465.2	506.487	484.315	465.175	484.315	465.175	465.175	484.315	484.315	645754	400	600	25	12	40	64.5
LT 9	Mpr+	383.2481															25	12	40	
BLK 11	Mpr -	713.322862	2.54	0.60	431.7	472.983	451.189	431.671	451.189	431.671	431.671	451.189	451.189	601585	400	600	25	12	40	64.5
LT 8	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.54	0.60	431.7	472.983	451.189	431.671	451.189	431.671	431.671	451.189	451.189	601585	400	600	25	12	40	64.5
LT 7	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.54	0.60	431.7	472.983	451.189	431.671	451.189	431.671	431.671	451.189	451.189	601585	400	600	25	12	40	64.5
LT6	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.54	0.60	431.7	473.426	451.398	431.671	451.398	431.671	431.671	451.398	451.398	601864	400	600	25	12	40	64.5
LT 5	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.49	0.60	440.3	482.094	460.462	440.339	460.462	440.339	440.339	460.462	460.462	613950	400	600	25	12	40	64.5
LT 4	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.49	0.60	440.3	482.094	460.462	440.339	460.462	440.339	440.339	460.462	460.462	613950	400	600	25	12	40	64.5
LT 3	Mpr+	383.121901															25	12	40	
BLK 11	Mpr -	713.322862	2.49	0.60	440.3	440.339	440.339	440.339	440.339	440.339	440.339	440.339	440.339	587119	400	600	25	12	40	64.5
LT 2	Mpr+	383.121901															25	12	40	

d	Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Dipakai Sengkang
735.5	268566.627	butuh tul gsr	Vc=0	299440	1074266.5	537133.3	Ok	Spsi bgi 2	339.292007	452.3893422	250.016	333.35414	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	299349	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	250.092	333.45583	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	302657	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	247.359	329.8115	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	302657	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	247.359	329.8115	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	326353	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	229.398	305.86429	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	300756	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	248.922	331.89556	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	329906	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	226.928	302.57018	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	329906	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	226.928	302.57018	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	333347	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	224.585	299.44658	367.75	3P12-200
735.5	268566.627	butuh tul gsr	Vc=0	321880	1074267	537133	Ok	Spsi bgi 2	339.292007	452.3893422	232.586	310.11485	367.75	3P12-200
535.5	195536.953	butuh tul gsr	Vc=0	472988	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	115.240	153.6538	267.75	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	645754	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	84.409	112.54496	267.75	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	601585	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	90.606	120.80812	267.75	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	601585	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	90.606	120.80812	133.875	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	601585	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	90.606	120.80812	133.875	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	601864	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	90.564	120.75211	133.875	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	613950	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	88.781	118.3751	133.875	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	613950	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	88.781	118.3751	133.875	3P12-75
535.5	195536.953	butuh tul gsr	Vc=0	587119	782148	391074	Ok	Spasi bgi 4	339.292007	452.3893422	92.839	123.78469	133.875	3P12-75

Tabel Penulangan geser balok di daeral luar sendi

No Balok	Jenis	Nilai Momen	ln	h	V1	V	V2h kiri	V2h kanan	Gaya Gempa Kiri		Gaya Gempa Kanan		Vu terpakai	Vn (N)	b	h	tul		
									Vu kiri	Vu kanan	Vu kiri	Vu kanan							
BLK 11	Mpr -	708.058366	2.49	0.60	391.3	436.370	413.021	391.300	413.021	391.300	391.300	413.021	413.021	550694.25	400	600	25	12	40
LT 1	Mpr+	266.278832															25	12	40
BLK 100	Mpr -	289.488835	4.6	0.60	116.9	190.539	136.101	116.887	136.101	116.887	116.887	136.101	136.101	181467	400	600	19	12	40
LT 9	Mpr+	248.192251															19	12	40
BLK 108	Mpr -	217.102532	1.2	0.50	328.9	348.400	345.156	328.934	345.156	328.934	328.934	345.156	345.156	460208	300	500	19	12	40
ATAP	Mpr+	177.618685															19	12	40
BLK 108	Mpr -	284.899151	1.2	0.50	340.3	359.760	356.516	340.295	356.516	340.295	340.295	356.516	356.516	475355	300	500	19	12	40
LT 9	Mpr+	123.454324															19	12	40
BLK 108	Mpr -	217.122257	1.15	0.50	295.9	315.624	313.056	295.939	313.056	295.939	295.939	313.056	313.056	417408	300	500	19	12	40
LT 8	Mpr+	123.207033															19	12	40
BLK 108	Mpr -	217.122257	1.15	0.50	295.9	315.624	313.056	295.939	313.056	295.939	295.939	313.056	313.056	417408	300	500	19	12	40
LT 7	Mpr+	123.207033															19	12	40
BLK 108	Mpr -	217.122257	1.15	0.50	295.9	315.624	313.056	295.939	313.056	295.939	295.939	313.056	313.056	417408	300	500	19	12	40
LT6	Mpr+	123.207033															19	12	40
BLK 108	Mpr -	174.592947	1.15	0.50	259.0	278.642	276.074	258.957	276.074	258.957	258.957	276.074	276.074	368099	300	500	19	12	40
LT 5	Mpr+	123.207033															19	12	40
BLK 108	Mpr -	228.193403	1.1	0.50	319.7	339.585	337.775	319.680	337.775	319.680	319.680	337.775	337.775	450367	300	500	19	12	40
LT 4	Mpr+	123.454324															19	12	40
BLK 108	Mpr -	228.193403	1.1	0.50	319.7	339.585	337.775	319.680	337.775	319.680	319.680	337.775	337.775	450367	300	500	19	12	40
LT 3	Mpr+	123.454324															19	12	40
BLK 108	Mpr -	228.193403	1.1	0.50	319.7	339.585	337.775	319.680	337.775	319.680	319.680	337.775	337.775	450367	300	500	19	12	40
LT 2	Mpr+	123.454324															19	12	40
BLK 131	Mpr -	1379.72198	9.91	0.60	233.1	396.515	252.858	233.066	252.858	233.066	233.066	252.858	252.858	337144	400	600	19	12	40
LT 1	Mpr+	929.962985															19	12	40
BLK 100	Mpr -	289.470042	4.6	0.60	132.0	205.678	151.240	132.026	151.240	132.026	132.026	151.240	151.240	201653	400	600	19	12	40
ATAP	Mpr+	317.850641															19	12	40
BLK 100	Mpr -	289.488835	4.5	0.60	119.5	192.141	138.860	119.485	138.860	119.485	119.485	138.860	138.860	185146	400	600	19	12	40
LT 8	Mpr+	248.192251															19	12	40
BLK 100	Mpr -	357.397069	4.5	0.60	135.0	207.611	154.330	134.955	154.330	134.955	134.955	154.330	154.330	205773	400	600	19	12	40
LT7	Mpr+	249.899957															19	12	40
BLK 100	Mpr -	357.397069	4.5	0.60	135.0	207.611	154.330	134.955	154.330	134.955	134.955	154.330	154.330	205773	400	600	19	12	40
LT 6	Mpr+	249.899957															19	12	40
BLK 100	Mpr -	424.608618	4.5	0.60	150.2	222.849	169.568	150.193	169.568	150.193	150.193	169.568	169.568	226091	400	600	19	12	40
LT 5	Mpr+	251.259765															19	12	40
BLK 100	Mpr -	424.608618	4.4	0.60	153.6	225.227	173.139	153.606	173.139	153.606	153.606	173.139	173.139	230852	400	600	19	12	40
LT 4	Mpr+	251.259765															19	12	40
BLK 100	Mpr -	424.805	4.4	0.60	169.4	241.010	188.923	169.390	188.923	169.390	169.390	188.923	188.923	251897	400	600	19	12	40
LT 3	Mpr+	320.511139															19	12	40

d'	d	Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Dipakai Sengkang
64.5	535.5	195536.953	butuh tul gsr	Vc=0	550694	782147.8	391073.9	Ok	Spasi bgi 4	339.292007	452.3893422	98.979	131.97223	267.75	3D12-100
61.5	538.5	196632.398	tidak bth	Vc=0	181467	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	302.0521	402.7361	269.25	3P12-250
61.5	438.5	120088.171	butuh tul gsr	Vc=0	460208	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	96.986	129.31516	219.25	3P12-75
61.5	438.5	120088.171	butuh tul gsr	Vc=0	475355	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	93.896	125.19459	219.25	3P12-75
61.5	438.5	120088.171	butuh tul gsr	Vc=0	417408	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	106.931	142.57466	219.25	3P12-100
61.5	438.5	120088.171	butuh tul gsr	Vc=0	417408	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	106.931	142.57466	219.25	3P12-100
61.5	438.5	120088.171	butuh tul gsr	Vc=0	417408	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	106.931	142.57466	219.25	3P12-100
61.5	438.5	120088.171	butuh tul gsr	Vc=0	368099	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	121.255	161.67351	219.25	3P12-100
61.5	438.5	120088.171	butuh tul gsr	Vc=0	450367	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	99.106	132.14082	219.25	3P12-75
61.5	438.5	120088.171	butuh tul gsr	Vc=0	450367	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	99.106	132.14082	219.25	3P12-75
61.5	438.5	120088.171	butuh tul gsr	Vc=0	450367	480353	240176	Ok	Spasi bgi 4	339.292007	452.3893422	99.106	132.14082	219.25	3P12-75
61.5	538.5	196632.398	butuh tul gsr	Vc=0	337144	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	162.579	216.77227	269.25	3P12-75
61.5	538.5	196632.398	butuh tul gsr	Vc=0	201653	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	271.817	362.42234	269.25	3P12-200
61.5	538.5	196632.398	tidak bth	Vc=0	185146	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	296.051	394.7341	134.625	3P12-200
61.5	538.5	196632.398	butuh tul gsr	Vc=0	205773	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	266.374	355.16548	134.625	3P12-200
61.5	538.5	196632.398	butuh tul gsr	Vc=0	205773	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	266.374	355.16548	134.625	3P12-200
61.5	538.5	196632.398	butuh tul gsr	Vc=0	226091	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	242.437	323.24882	134.625	3P12-200
61.5	538.5	196632.398	butuh tul gsr	Vc=0	230852	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	237.436	316.58112	134.625	3P12-200
61.5	538.5	196632.398	butuh tul gsr	Vc=0	251897	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	217.599	290.13231	134.625	3P12-200

Tabel Penulangan geser balok di daeral luar sendi

No Balok	Jenis	Nilai Momen	ln	h	V1	V	V2h kiri	V2h kanan	Gaya Gempa Kiri		Gaya Gempa Kanan		Vu terpakai	Vn (N)	b	h	tul			d'	d
									Vu kiri	Vu kanan	Vu kiri	Vu kanan									
BLK 100	Mpr -	357.397069	4.4	0.60	138.0	209.642	157.555	138.022	157.555	138.022	138.022	157.555	157.555	210073.16	400	600	19	12	40	61.5	538.5
LT 2	Mpr+	249.899957															19	12	40		
BLK 100	Mpr -	357.397069	4.4	0.60	138.0	215.268	159.089	138.022	159.089	138.022	138.022	159.089	159.089	212119	400	600	19	12	40	61.5	538.5
LT 1	Mpr+	249.899957															19	12	40		
BLK 101	Mpr -	289.470042	4.6	0.60	132.0	205.678	151.240	132.026	151.240	132.026	132.026	151.240	151.240	201653	400	600	19	12	40	61.5	538.5
ATAP	Mpr+	317.850641															19	12	40		
BLK 101	Mpr -	424.805	4.6	0.60	162.0	235.677	181.239	162.025	181.239	162.025	162.025	181.239	181.239	241652	400	600	19	12	40	61.5	538.5
LT 9	Mpr+	320.511139															19	12	40		
BLK 101	Mpr -	424.608618	4.5	0.60	150.2	222.849	169.568	150.193	169.568	150.193	150.193	169.568	169.568	226091	400	600	19	12	40	61.5	538.5
LT 8	Mpr+	251.259765															19	12	40		
BLK 101	Mpr -	424.805	4.5	0.60	165.6	238.282	185.001	165.626	185.001	165.626	165.626	185.001	185.001	246668	400	600	19	12	40	61.5	538.5
LT 7	Mpr+	320.511139															19	12	40		
BLK 101	Mpr -	491.525193	4.5	0.60	180.7	253.324	200.043	180.668	200.043	180.668	180.668	200.043	200.043	266724	400	600	19	12	40	61.5	538.5
LT6	Mpr+	321.480522															19	12	40		
BLK 101	Mpr -	289.488835	4.5	0.60	119.5	192.141	138.860	119.485	138.860	119.485	119.485	138.860	138.860	185146	400	600	19	12	40	61.5	538.5
LT 5	Mpr+	248.192251															19	12	40		
BLK 101	Mpr -	424.805	4.4	0.60	169.4	241.010	188.923	169.390	188.923	169.390	169.390	188.923	188.923	251897	400	600	19	12	40	61.5	538.5
LT 4	Mpr+	320.511139															19	12	40		
BLK 101	Mpr -	424.608618	4.4	0.60	153.6	225.227	173.139	153.606	173.139	153.606	153.606	173.139	173.139	230852	400	600	19	12	40	61.5	538.5
LT 3	Mpr+	251.259765															19	12	40		
BLK 101	Mpr -	490.902024	4.4	0.60	168.9	240.547	188.459	168.926	188.459	168.926	168.926	188.459	188.459	251279	400	600	19	12	40	61.5	538.5
LT 2	Mpr+	252.373993															19	12	40		
BLK 101	Mpr -	289.488835	4.4	0.60	122.2	199.446	143.267	122.200	143.267	122.200	122.200	143.267	143.267	191023	400	600	19	12	40	61.5	538.5
LT 1	Mpr+	248.192251															19	12	40		

Vc	Butuh/tidak	Syarat Vc	Vs	Vsmaks1	Vsmaks2	Syarat 1	Syarat 2	Av1 (3D12)	Av2 (4D12)	S1	S2	Spsi max1	Dipakai Sengkang
196632.398	butuh tul gsr	Vc=0	210073	786529.6	393264.8	Ok	Spsi bgi 2	339.292007	452.3893422	260.922	347.89546	269.25	3D12-250
196632.398	butuh tul gsr	Vc=0	212119	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	258.4052	344.54029	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	201653	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	271.817	362.42234	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	241652	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	226.825	302.43341	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	226091	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	242.437	323.24882	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	246668	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	222.212	296.28328	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	266724	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	205.503	274.0044	269.25	3D12-200
196632.398	tidak bth	Vc=0	185146	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	296.051	394.7341	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	251897	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	217.599	290.13231	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	230852	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	237.436	316.58112	269.25	3D12-200
196632.398	butuh tul gsr	Vc=0	251279	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	218.135	290.84612	269.25	3D12-200
196632.398	tidak bth	Vc=0	191023	786530	393265	Ok	Spsi bgi 2	339.292007	452.3893422	286.942	382.58977	269.25	3D12-200

PENULANGAN KOLOM

Tabel Hitungan Kolom Biaksial

Tingkat	Nomor Kolom	b	h	Pu	Mux	Muy	Pu><0,1 . Ag . f'c	Pn	Mnx	Mny
10	kolom tengah	600	600	408.11	133.352	78.823	0.65	627.8615	205.1569	121.2662
9	kolom tengah	600	600	966.09	68.551	94.326	0.65	1486.292	105.4631	145.1169
8	kolom tengah	700	700	1541.99	101.549	147.057	0.65	2372.292	156.2292	226.2415
7	kolom tengah	700	700	2120.42	118.548	172.299	0.65	3262.185	182.3815	265.0754
6	kolom tengah	700	700	2687.81	139.625	202.298	0.65	4135.092	214.8077	311.2277
5	kolom tengah	700	700	3241.73	156.251	211.314	0.65	4987.277	240.3862	325.0985
4	kolom tengah	800	800	3808.17	163.479	255.031	0.65	5858.723	251.5062	392.3554
3	kolom tengah	800	800	4363.76	287.52	306.79	0.65	6713.477	442.3385	471.9846
2	kolom tengah	800	800	5025.2	294.13	314.651	0.65	7731.077	452.5077	484.0785
1	kolom tengah	800	800	5835.8	335.516	226.163	0.65	8978.154	516.1785	347.9431

Tabel Syarat Perancangan Tulangan Kolom

Tingkat	Jenis Kolom	Mny/Mnx	b/h	Mno	km	kp	r	f'c	fy
10	kolom tengah	0.5911	1	270.4541	0.0417	0.0581	4.50%	30	400
9	kolom tengah	1.3760	1	201.9047	0.0312	0.1376	1.50%	30	400
8	kolom tengah	1.4481	1	310.3650	0.0302	0.1614	1.50%	30	400
7	kolom tengah	1.4534	1	363.2808	0.0353	0.2219	1.50%	30	400
6	kolom tengah	1.4489	1	426.8934	0.0415	0.2813	1.50%	30	400
5	kolom tengah	1.3524	1	454.5372	0.0442	0.3393	1.50%	30	400
4	kolom tengah	1.5600	1	527.7818	0.0344	0.3051	1.50%	30	400
3	kolom tengah	1.0670	1	710.1669	0.0462	0.3497	1.50%	30	400
2	kolom tengah	1.0698	1	727.7364	0.0474	0.4027	1.50%	30	400
1	kolom tengah	0.6741	1	703.5324	0.0458	0.4676	1.50%	30	400

Tabel Syarat Perancangan Tulangan Kolom

		Metode Resciprocal								
Tingkat	Jenis Kolom	Po			Pox			Poy		
		Ast	Ag	Po	km	kp	Pox	km	kp	Poy
10	kolom tengah	16200	360000	15246.9	0.0317	0.67	7236	0.0187	0.68	14739
9	kolom tengah	5400	360000	11202.3	0.0163	0.64	6858	0.0224	0.63	6804
8	kolom tengah	7350	490000	15247.58	0.0152	0.60	8820	0.0220	0.58	8452.5
7	kolom tengah	7350	490000	15247.58	0.0177	0.59	8673	0.0258	0.57	8379
6	kolom tengah	7350	490000	15247.58	0.0209	0.59	8599.5	0.0302	0.56	8232
5	kolom tengah	7350	490000	15247.58	0.0234	0.58	8452.5	0.0316	0.55	8085
4	kolom tengah	9600	640000	19915.2	0.0164	0.63	12096	0.0255	0.59	11328
3	kolom tengah	9600	640000	19915.2	0.0288	0.62	11904	0.0307	0.60	11520
2	kolom tengah	9600	640000	19915.2	0.0295	0.61	11712	0.0315	0.60	11520
1	kolom tengah	9600	640000	19915.2	0.0336	0.60	11520	0.0227	0.63	13655.25

Tabel Me akibat Gempa Arah X dan Arah Y

Tingkat	Jenis Kolom	km				Me			
		Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey
10	kolom tengah	0.160	0.160	0.160	0.160	1036.8000	1036.8000	1036.8000	1036.8000
9	kolom tengah	0.075	0.075	0.075	0.075	907.2000	907.2000	907.2000	907.2000
8	kolom tengah	0.075	0.075	0.075	0.075	1512.6300	1512.6300	1512.6300	1512.6300
7	kolom tengah	0.078	0.078	0.079	0.078	1569.2250	1569.2250	1584.6600	1569.2250
6	kolom tengah	0.080	0.080	0.081	0.080	1625.8200	1625.8200	1646.4000	1625.8200
5	kolom tengah	0.085	0.085	0.086	0.081	1697.8500	1697.8500	1718.4300	1656.6900
4	kolom tengah	0.083	0.083	0.082	0.080	2488.3200	2488.3200	2488.3200	2442.2400
3	kolom tengah	0.088	0.083	0.089	0.083	2611.2000	2534.4000	2634.2400	2496.0000
2	kolom tengah	0.090	0.089	0.090	0.089	2703.3600	2672.6400	2749.4400	2672.6400
1	kolom tengah	0.093	0.091	0.094	0.090	2810.8800	2749.4400	2841.6000	2749.4400

Tabel Momen Kapasitas Balok Untuk Perancangan Kolom arah x

Tingkat	Jenis Kolom	Balok Arah X							
		Gempa Kiri (EX)		Mg	6/5 Mg	Gempa Kanan (-EX)		Mg	6/5 Mg
		ki ; Mn-	ka ; Mn+			ki ; Mn+	ka ; Mn-		
10	kolom tengah	231.5760	254.2805	485.8565	583.0279	254.2805	231.5760	485.8565	583.0279
9	kolom tengah	231.5911	256.4089	488.0000	585.6000	198.5538	339.8440	538.3978	646.0774
8	kolom tengah	231.5911	201.0078	432.5989	519.1187	198.5538	339.6869	538.2407	645.8888
7	kolom tengah	285.9177	256.4089	542.3266	650.7919	199.9200	339.8440	539.7640	647.7168
6	kolom tengah	285.9177	257.1844	543.1021	651.7225	199.9200	393.2202	593.1401	711.7681
5	kolom tengah	339.6869	198.5538	538.2407	645.8888	201.0078	231.5911	432.5989	519.1187
4	kolom tengah	339.6869	256.4089	596.0958	715.3150	201.0078	339.8440	540.8518	649.0222
3	kolom tengah	339.8440	201.0078	540.8518	649.0222	256.4089	339.6869	596.0958	715.3150
2	kolom tengah	285.9177	201.8992	487.8168	585.3802	199.9200	392.7216	592.6416	711.1699
1	kolom tengah	285.9177	198.5538	484.4715	581.3657	199.9200	231.5911	431.5110	517.8132

Tabel Momen Kapasitas Balok Untuk Perancangan Kolom arah y

Tingkat	Jenis Kolom	Balok Arah Y							
		Gempa Kiri (EY)				Gempa Kanan (-EY)			
		ki ; Mn-	ka ; Mn+	Mg	6/5 Mg	ki ; Mn+	ka ; Mn-	Mg	6/5 Mg
10	kolom tengah	803.6036	142.0949	945.6985	1134.8382	503.3075	144.7350	648.0425	777.6510
9	kolom tengah	803.6036	98.7635	902.3670	1082.8404	603.9690	173.6820	777.6510	933.1812
8	kolom tengah	803.6036	98.5656	902.1692	1082.6030	603.9690	173.6978	777.6668	933.2001
7	kolom tengah	803.6036	98.5656	902.1692	1082.6030	603.9690	173.6978	777.6668	933.2001
6	kolom tengah	930.6577	98.5656	1029.2233	1235.0680	605.5846	173.6978	779.2824	935.1389
5	kolom tengah	926.1817	98.5656	1024.7473	1229.6967	471.5727	139.6744	611.2471	733.4965
4	kolom tengah	930.6577	98.7635	1029.4212	1235.3054	605.5846	182.5547	788.1393	945.7672
3	kolom tengah	930.6577	98.7635	1029.4212	1235.3054	605.5846	182.5547	788.1393	945.7672
2	kolom tengah	930.6577	98.7635	1029.4212	1235.3054	605.5846	182.5547	788.1393	945.7672
1	kolom tengah	933.5483	743.9704	1677.5187	2013.0225	742.6337	1103.7776	1846.4112	2215.6935

Tabel Kekuatan Kolom Terhadap Balok

Tingkat	Jenis Kolom		Ex			(-) Ex			Ey			(-) Ey		
			ΣMe	Σ(6/5) Mg	Syarat	ΣMe	Σ(6/5) Mg	Syarat	ΣMe	Σ(6/5) Mg	Syarat	ΣMe	Σ(6/5) Mg	Syarat
10	kolom tengah	4.5%	1595.0769	728.7848	ok	1595.077	728.7848	ok	1595.077	1418.548	ok	1595.077	972.0637	ok
9	kolom tengah	1.5%	1395.6923	732	ok	1395.692	807.5967	ok	1395.692	1353.551	ok	1395.692	1166.476	ok
8	kolom tengah	1.5%	2327.1231	648.8983	ok	2327.123	807.361	ok	2327.123	1353.254	ok	2327.123	1166.5	ok
7	kolom tengah	1.5%	2414.1923	813.4898	ok	2414.192	809.6459	ok	2437.938	1353.254	ok	2414.192	1166.5	ok
6	kolom tengah	1.5%	2501.2615	814.6531	ok	2501.262	889.7102	ok	2532.923	1543.835	ok	2501.262	1168.924	ok
5	kolom tengah	1.5%	2612.0769	807.361	ok	2612.077	648.8983	ok	2643.738	1537.121	ok	2548.754	916.8706	ok
4	kolom tengah	1.5%	3828.1846	894.1437	ok	3828.185	811.2777	ok	3828.185	1544.132	ok	3757.292	1182.209	ok
3	kolom tengah	1.5%	4017.2308	811.2777	ok	3899.077	894.1437	ok	4052.677	1544.132	ok	3840	1182.209	ok
2	kolom tengah	1.5%	4159.0154	731.7253	ok	4111.754	888.9624	ok	4229.908	1544.132	ok	4111.754	1182.209	ok
1	kolom tengah	1.5%	4324.4308	726.7072	ok	4229.908	647.2666	ok	4371.692	2516.278	ok	4229.908	2769.617	ok

Tabel Perancangan Tulangan Kolom

Tingkat	Label Kolom	b	h	p	Ast butuh	Jumlah Tulangan	Ast Terpakai
10	C14	600	600	4.5%	16200	36 D 25	17679
9	C14	600	600	1.5%	5400	12 D 25	5893
8	C14	700	700	1.5%	7350	16 D 25	7857
7	C14	700	700	1.5%	7350	16 D 25	7857
6	C14	700	700	1.5%	7350	16 D 25	7857
5	C14	700	700	1.5%	7350	16 D 25	7857
4	C14	800	800	1.5%	9600	20 D 25	9821
3	C14	800	800	1.5%	9600	20 D 25	9821
2	C14	800	800	1.5%	9600	20 D 25	9821
1	C14	800	800	1.5%	9600	20 D 25	9821

Tabel Beban Pn Akibat Gempa Arah X dan Y

Tingkat	Jenis Kolom	P				kp				Pn			
		Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey	Ex	(-)Ex	Ey	(-)Ey
10	kolom tengah	226.53	222.6	229.8	220.84	0.0210	0.0206	0.0213	0.0204	226.53	222.6	229.8	220.84
9	kolom tengah	544.81	538.52	564.61	527.85	0.0504	0.0499	0.0523	0.0489	544.81	538.52	564.61	527.85
8	kolom tengah	859.31	848.59	905.03	823.97	0.0585	0.0577	0.0616	0.0561	859.31	848.59	905.03	823.97
7	kolom tengah	1182.4	1166.28	1261.78	1123.54	0.0804	0.0793	0.0858	0.0764	1182.4	1166.28	1261.78	1123.54
6	kolom tengah	1497.58	1474.68	1618.03	1409.83	0.1019	0.1003	0.1101	0.0959	1497.58	1474.68	1618.03	1409.83
5	kolom tengah	1803.64	1772.8	1971.56	1682.38	0.1227	0.1206	0.1341	0.1144	1803.64	1772.8	1971.56	1682.38
4	kolom tengah	2108.6	2069.14	2327.9	1951.06	0.1098	0.1078	0.1212	0.1016	2108.6	2069.14	2327.9	1951.06
3	kolom tengah	2416.27	2370.31	2688.56	2223.69	0.1258	0.1235	0.1158	0.1158	2416.27	2370.31	2688.56	2223.69
2	kolom tengah	2825.82	2760.83	3132.38	2595.76	0.1472	0.1438	0.1631	0.1352	2825.82	2760.83	3132.38	2595.76
1	kolom tengah	3195.37	3122.39	3516.62	2949.41	0.1664	0.1626	0.1832	0.1536	3195.37	3122.39	3516.62	2949.41

Tabel Gaya Geser Kolom

Tingkat	Jenis Kolom	h	Mpr Kolom atas	Mpr Kolom bawah	Mpr balok atas	Mpr balok bawah	Ve kolom	Ve balok	Ve output	Ve pakai
		(m)	(kNm)	(kNm)	(kNm)	(kNm)	(kN)	(kN)	(kN)	(kN)
10	kolom tengah	4.5	1036.80	1036.80	607.3207	610.0000	560.4324	246.5732	63.32	246.5732
9	kolom tengah	4	505.44	505.44	610.0000	540.7486	315.9000	205.0584	53.81	205.0584
8	kolom tengah	4	823.20	823.20	540.7486	677.9082	514.5000	215.669	84.96	215.669
7	kolom tengah	4	905.52	905.52	677.9082	678.8776	565.9500	211.9978	95.48	211.9978
6	kolom tengah	4	977.55	977.55	678.8776	672.8009	610.9688	211.1998	109.35	211.1998
5	kolom tengah	4	1018.71	1018.71	672.8009	745.1198	636.6938	251.9242	113.95	251.9242
4	kolom tengah	4	1459.20	1459.20	745.1198	676.0648	912.0000	252.4341	132.13	252.4341
3	kolom tengah	4	1505.28	1505.28	676.0648	609.7711	940.8000	200.9118	132.28	200.9118
2	kolom tengah	3	1505.28	1505.28	609.7711	605.5893	1368.4364	276.2183	143.71	276.2183
1	kolom tengah	3	1459.20	1459.20	1084.1043	1084.1043	1326.5455	246.3873	113.1	246.3873

Tulangan Geser Kolom

Tingkat	Jenis Kolom	d	Av	Ve pakai	Sepanjang lo			Di luar lo			
					Vs	s	Tulangan	Vc	Vs	s	Tulangan
10	kolom tengah	535.5	226.2857	246.5732	328.7642	165.8611	5P12-100	293.3183	35.44592	1538.3772	5P12-150
9	kolom tengah	535.5	226.2857	205.0584	273.4111	199.4403	5P12-100	293.3361	-19.925	-2736.7213	5P12-150
8	kolom tengah	635.5	226.2857	215.6690	287.5587	225.0395	5P12-100	406.1394	-118.581	-545.7216	5P12-150
7	kolom tengah	635.5	226.2857	211.9978	282.6637	228.9366	5P12-100	406.1571	-123.493	-524.0121	5P12-150
6	kolom tengah	635.5	226.2857	211.1998	281.5997	229.8016	5P12-100	406.1741	-124.574	-519.4651	5P12-150
5	kolom tengah	635.5	226.2857	251.9242	335.8989	192.6534	5P12-100	406.1902	-70.2913	-920.6263	5P12-150
4	kolom tengah	735.5	226.2857	252.4341	336.5789	222.5182	6P12-100	537.2502	-200.671	-373.2218	6P12-150
3	kolom tengah	735.5	226.2857	200.9118	267.8825	279.5813	6P12-100	537.2666	-269.384	-278.0228	6P12-150
2	kolom tengah	735.5	226.2857	276.2183	368.291	203.3580	6P12-100	537.2889	-168.998	-443.1708	6P12-150
1	kolom tengah	735.5	226.2857	246.3873	328.5164	227.9792	6P12-100	537.3101	-208.794	-358.7031	6P12-150

Sambungan Balok Kolom

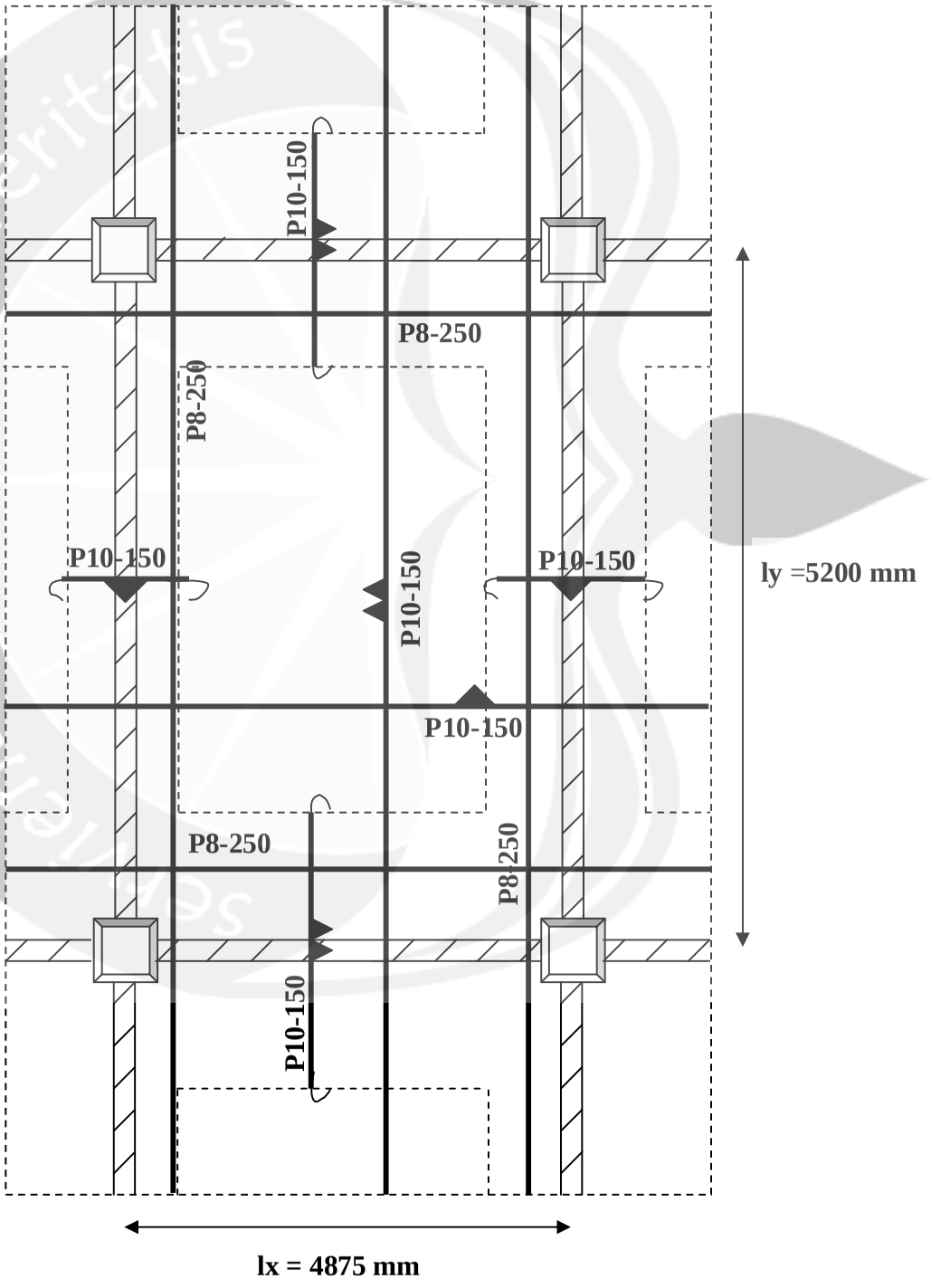
Lantai	Kol	Spasi max	hc	Ach	Ag	Ash1	Jlh sengkang		Tul
							perlu	guna	
10	14	100	495.5	270400	360000	492.568	4.3535	5	5P12-100
9	14	100	495.5	270400	360000	492.568	4.3535	5	5P12-100
8	14	100	595.5	384400	490000	535.95	4.7369	5	5P12-100
7	14	100	595.5	384400	490000	535.95	4.7369	5	5P12-100
6	14	100	595.5	384400	490000	535.95	4.7369	5	5P12-100
5	14	100	595.5	384400	490000	535.95	4.7369	5	5P12-100
4	14	100	695.5	518400	640000	625.95	5.5324	6	6P12-100
3	14	100	695.5	518400	640000	625.95	5.5324	6	6P12-100
2	14	100	695.5	518400	640000	625.95	5.5324	6	6P12-100
1	14	100	695.5	518400	640000	625.95	5.5324	6	6P12-100

Kekuatan Geser Joint Balok Kolom

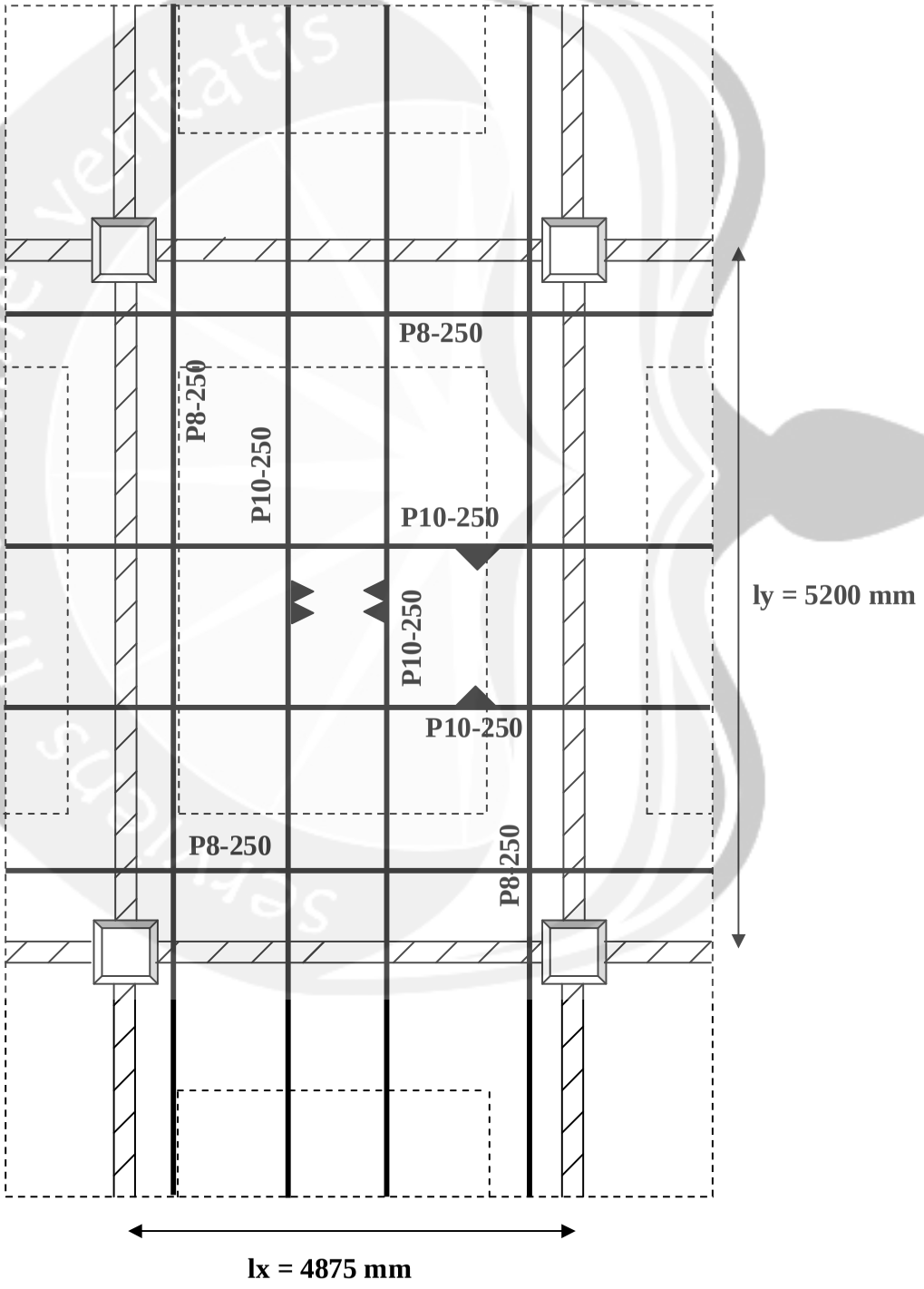
Lantai	Kolom	Mpr-blk ki	Mpr+blk ka	Σ Mpr	M atas	M bawah	V	As atas blk ki	As bwh blk ka	Ti	C2	Vj	Aj	phi.Vn	Syarat
10	14	289.4700	317.8506	607.3207	607.3207	303.6603	214.3485	1964.2857	1473.2143	736.6071	552.4554	1074.7140	360000	2681.6496	5P12-100 = ok
9	14	289.4888	320.5111	610.0000	305.0000	396.1617	164.9792	1964.2857	1964.2857	736.6071	736.6071	1308.2351	360000	2681.6496	5P12-100 = ok
8	14	289.4888	251.2598	540.7486	351.1867	270.3743	155.3903	1964.2857	1473.2143	736.6071	552.4554	1133.6722	490000	3650.0231	5P12-100 = ok
7	14	357.3971	320.5111	677.9082	338.9541	338.9541	169.4771	2455.3571	1964.2857	920.7589	736.6071	1487.8890	490000	3650.0231	5P12-100 = ok
6	14	357.3971	321.4805	678.8776	339.4388	339.4388	169.7194	2455.3571	1964.2857	920.7589	736.6071	1487.6467	490000	3650.0231	5P12-100 = ok
5	14	424.6086	248.1923	672.8009	336.4004	424.1638	190.1411	2946.4286	1473.2143	1104.9107	552.4554	1467.2250	490000	3650.0231	5P12-100 = ok
4	14	424.6086	320.5111	745.1198	469.7569	372.5599	210.5792	2946.4286	1964.2857	1104.9107	736.6071	1630.9387	860000	4767.3771	6P12-100 = ok
3	14	424.8050	251.2598	676.0648	338.0324	338.0324	169.0162	2946.4286	1473.2143	1104.9107	552.4554	1488.3499	860000	4767.3771	6P12-100= ok
2	14	357.3971	252.3740	609.7711	304.8855	304.8855	174.2203	2455.3571	1473.2143	920.7589	552.4554	1298.9940	860000	4767.3771	6P12-100 = ok
1	14	357.3971	726.7072	1084.1043	542.0521		180.6840	1473.2143	982.1429	552.4554	368.3036	740.0749	860000	4767.3771	6P12-100 = ok

GAMBAR PENULANGAN PELAT LANTAI

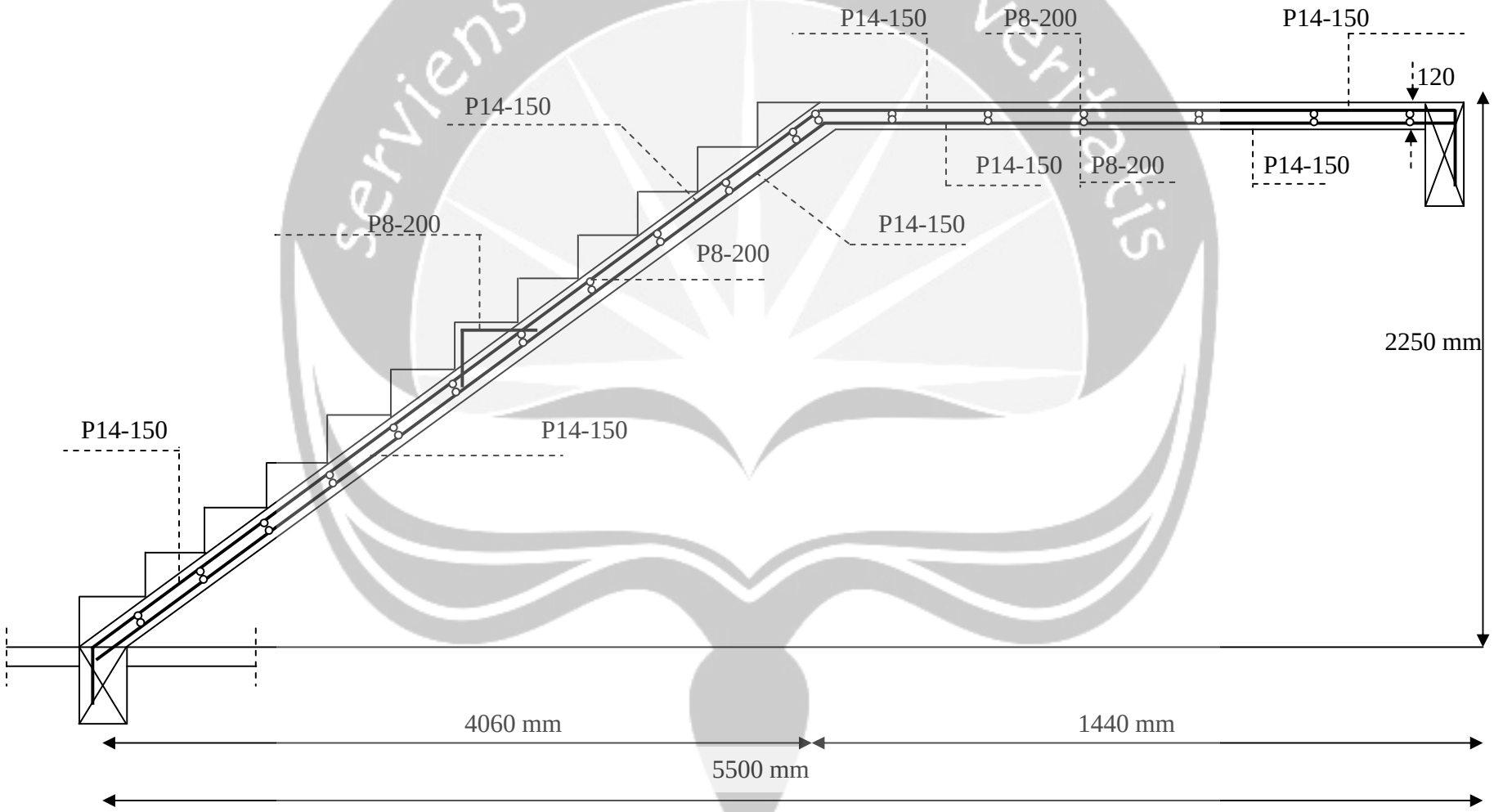
GAMBAR PENULANGAN

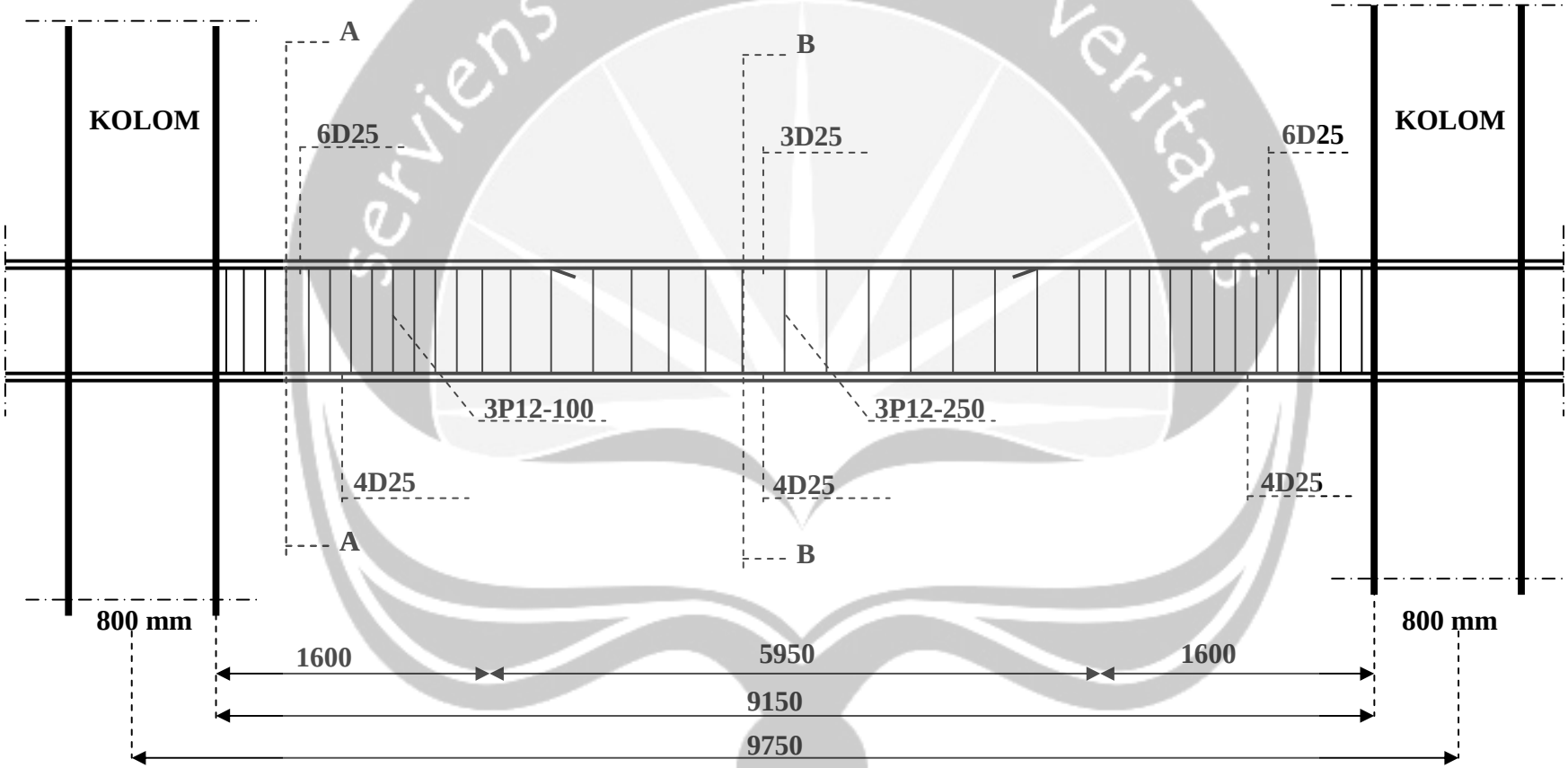


GAMBAR PENULANGAN PELAT ATAP



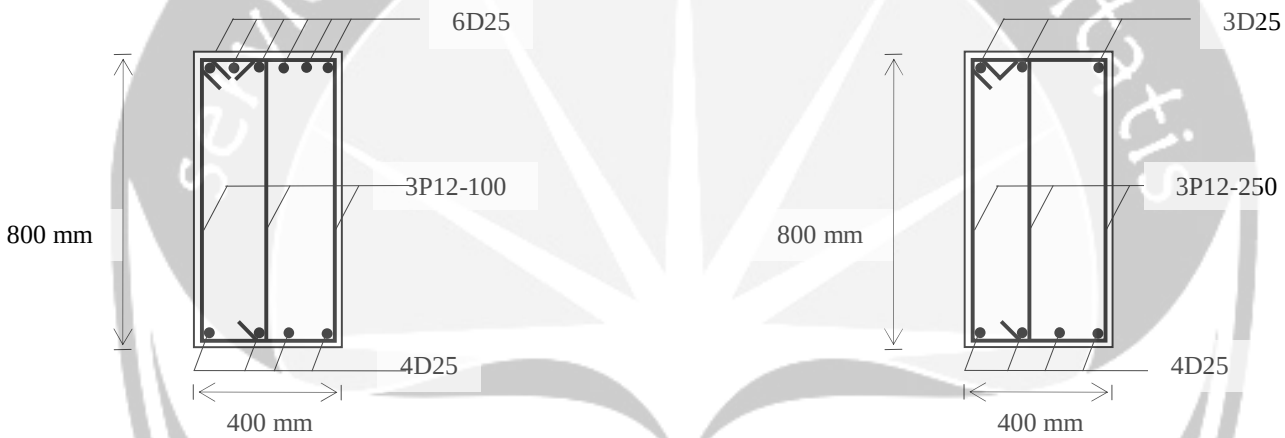
DETAIL PENULANGAN TANGGA





GAMBAR PENULANGAN BALOK

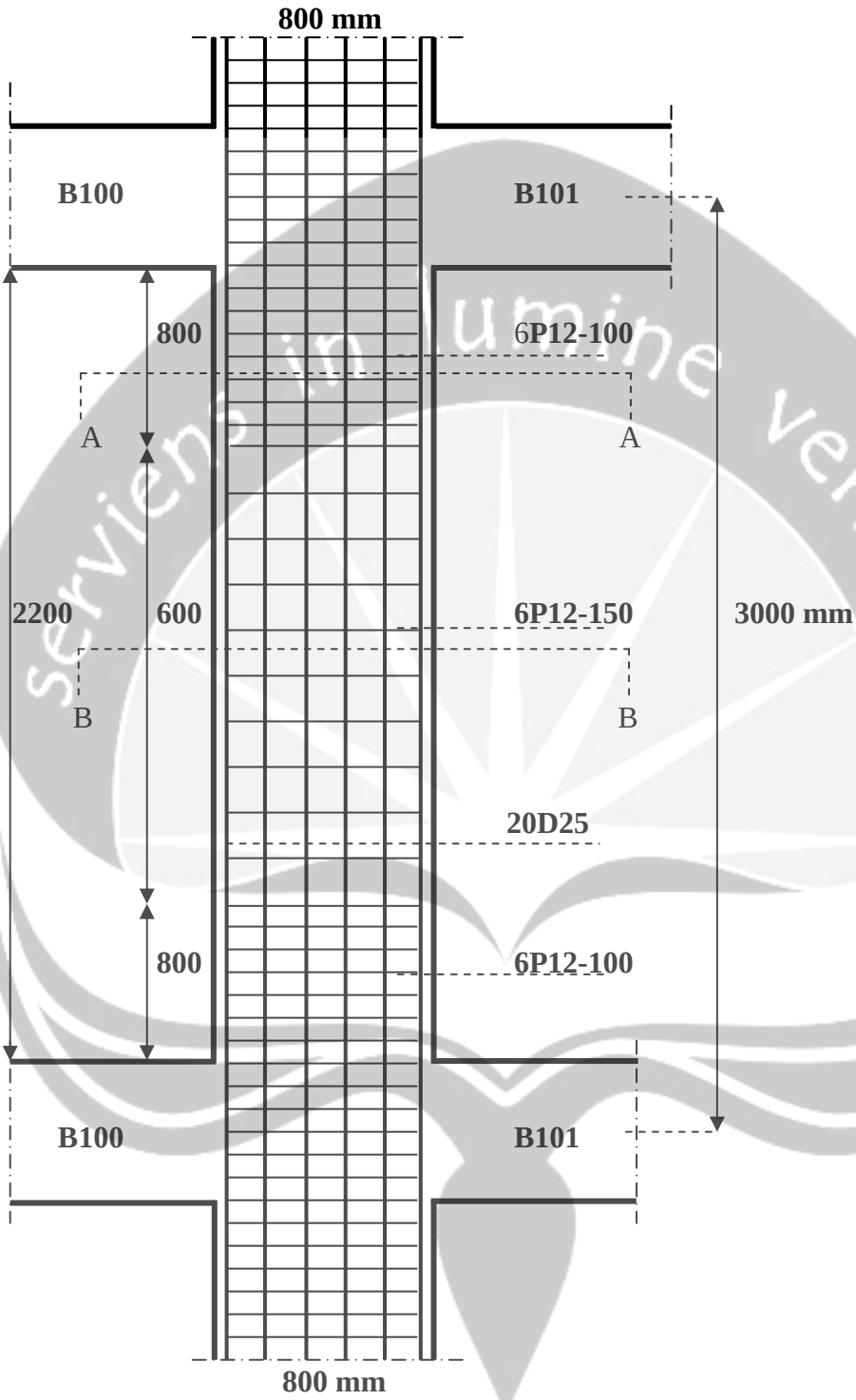
GAMBAR DETAIL PENULANGAN BALOK



DETAIL POTONGAN A-A

DETAIL POTONGAN B-B

GAMBAR PENULANGAN KOLOM



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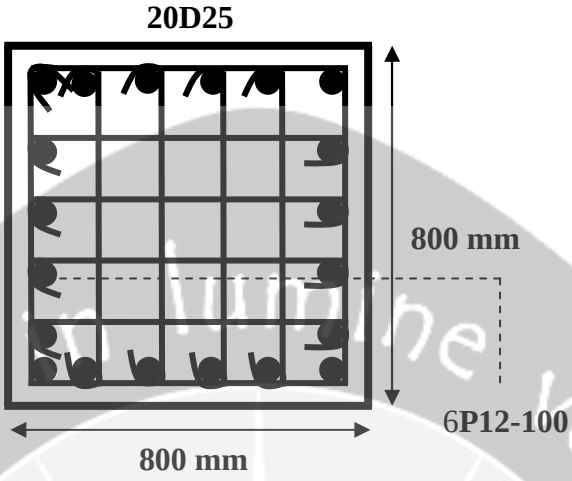

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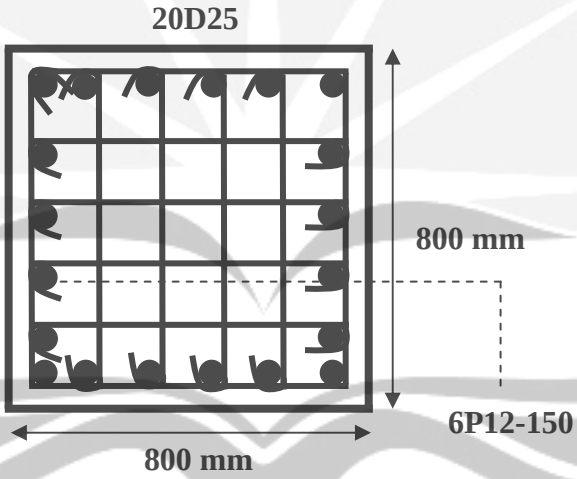

DETAIL POTONGAN B-B

GAMBAR SAMBUNGAN BALOK-KOLOM