

**DESIGN AND CHECK OF BENDING REINFORCEMENT OF THE SLAB**

Panel	Cross-section	DESIGN											Check						
		Med	d	z	a <sub>s,rqd</sub>	a <sub>s,min1</sub>	a <sub>s,min2</sub>	number of reb	Design	Ø	max spacing	a <sub>s,prov</sub>	X	ξ	z	mRd	mRd>mE	ξ < 0,45	spacing
		[kNm/m]	[mm]	[mm]	[mm <sup>2</sup> ]	[mm <sup>2</sup> ]	[mm <sup>2</sup> ]			[mm]	[mm]	[mm <sup>2</sup> ]	[kNm/m]	[mm]	[mm]	[mm <sup>2</sup> ]	[mm <sup>2</sup> ]		[mm <sup>2</sup> ]
	<b>GENERAL</b>	<b>20.0</b>	<b>250</b>	<b>225</b>	<b>204.44</b>	<b>377.00</b>	<b>290.00</b>	<b>5.00</b>	<b>5Ø10/200</b>	<b>10</b>	<b>200</b>	<b>392.50</b>	<b>10.67</b>	<b>0.042665</b>	<b>245.73</b>	<b>41.94</b>	<b>OK</b>	<b>OK</b>	<b>OK</b>
m, x + (negative)	Pillar	66.4	250	225	678.52	377.00	290.00	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.076797	242.32	74.44	OK	OK	OK
	C1	57.6	250	225	588.57	377.00	290.00	8.00	8Ø10/125	10	125	628.00	17.07	0.068264	243.17	66.40	OK	OK	OK
	C2	52.5	250	225	536.65	377.00	290.00	7.00	7Ø10/143	10	142.8571	549.50	14.93	0.059731	244.03	58.30	OK	OK	OK
	C3	66.0	250	225	675.05	377.00	290.00	6.00	6Ø12/167	12	166.6667	678.24	18.43	0.073725	242.63	71.55	OK	OK	OK
	C4	64.7	250	225	661.35	377.00	290.00	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.076797	242.32	74.44	OK	OK	OK
	C5	71.3	250	225	728.30	377.00	290.00	10.00	10Ø10/100	10	100	785.00	21.33	0.08533	241.47	82.42	OK	OK	OK
	C6	61.3	250	225	626.19	377.00	290.00	8.00	8Ø10/125	10	125	628.00	17.07	0.068264	243.17	66.40	OK	OK	OK
	Elevator corner	36.4	250	225	371.67	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	Left support (wall)	52.4	250	225	535.62	377.00	290.00	7.00	7Ø10/143	10	142.8571	549.50	14.93	0.059731	244.03	58.30	OK	OK	OK
	Right support (wall)	43.3	250	225	442.50	377.00	290.00	6.00	6Ø10/167	10	166.6667	471.00	12.80	0.051198	244.88	50.15	OK	OK	OK
m, y + (negative)	Pillar	61.4	240	216	653.24	361.92	278.40	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.079996	232.32	71.37	OK	OK	OK
	C1	62.0	240	216	659.95	361.92	278.40	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.079996	232.32	71.37	OK	OK	OK
	C2	56.0	240	216	595.95	361.92	278.40	8.00	8Ø10/125	10	125	628.00	17.07	0.071108	233.17	63.67	OK	OK	OK
	C3	53.2	240	216	566.67	361.92	278.40	6.00	6Ø12/167	12	166.6667	678.24	18.43	0.076797	232.63	68.60	OK	OK	OK
	C4	64.0	240	216	680.92	361.92	278.40	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.079996	232.32	71.37	OK	OK	OK
	C5	71.5	240	216	761.31	361.92	278.40	10.00	10Ø10/100	10	100	785.00	21.33	0.088885	231.47	79.00	OK	OK	OK
	C6	66.0	240	216	702.54	361.92	278.40	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.079996	232.32	71.37	OK	OK	OK
	Elevator corner	71.0	240	216	755.56	361.92	278.40	10.00	10Ø10/100	10	100	785.00	21.33	0.088885	231.47	79.00	OK	OK	OK
	Top support (wall)	27.0	240	216	287.91	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	Bottom support (wall)	43.9	240	216	467.33	361.92	278.40	6.00	6Ø10/167	10	166.6667	471.00	12.80	0.053331	234.88	48.10	OK	OK	OK
m, x - (positive)	1st midspan	33.7	250	225	344.27	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	2nd midspan	23.0	250	225	235.41	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	3rd midspan	20.6	250	225	210.67	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	4th midspan	23.6	250	225	240.83	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	5th midspan	28.9	250	225	295.00	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
m, y - (positive)	1st midspan	30.4	240	216	323.37	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	2nd midspan	35.6	240	216	379.27	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
opening + (negative)	x - bottom section (right)	62.7	250	225	640.70	377.00	290.00	9.00	9Ø10/111	10	111.1111	706.50	19.20	0.076797	242.32	74.44	OK	OK	OK
	x - bottom section (left)	43.4	250	225	443.12	377.00	290.00	6.00	6Ø10/167	10	166.6667	471.00	12.80	0.051198	244.88	50.15	OK	OK	OK
	x - section through (right)	20.8	250	225	212.20	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	x - section through (left)	23.8	250	225	243.28	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	y - bottom section (right)	15.9	240	216	169.51	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	y - bottom section (left)	24.5	240	216	260.34	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
opening - (positive)	x - section through	16.0	240	216	169.83	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	x - bottom section	41.2	250	225	421.45	377.00	290.00	6.00	6Ø10/167	10	166.6667	471.00	12.80	0.051198	244.88	50.15	OK	OK	OK
	x - section through (right)	6.5	250	225	66.03	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	x - section through (left)	5.8	250	225	59.08	377.00	290.00	5.00	5Ø10/200	10	200	392.50	10.67	0.042665	245.73	41.94	OK	OK	OK
	y - bottom section	12.6	240	216	134.27	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	y - section through (right)	9.7	240	216	103.28	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK
	y - section through (left)	7.5	240	216	79.54	361.92	278.40	5.00	5Ø10/200	10	200	392.50	10.67	0.044442	235.73	40.23	OK	OK	OK