

湖北省工程建设标准设计图集

钢筋混凝土过梁

DBJT17—28

91EG323

1991

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钢筋混凝土过梁

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主 编 单 位 负 责 人 张明志
 主编单位技术负责人 薛书森
 技 术 审 定 人 胡中校
 薛书森
 设 计 负 责 人 李 萍

张明志
 薛书森
 胡中校
 薛书森
 李萍

目 录

目录、说明(一)	1
说明(二)~(四)	2~4
过梁配筋图及断面型号	5
矩形过梁选用表(一)~(五)	6~10
a型过梁选用表(一)~(四)	11~14
b型过梁选用表(一)~(四)	15~18
c型过梁选用表(一)~(四)	19~22
d型过梁选用表(一)	23
d型过梁选用表(二)及钢筋长度计算表	24

说 明

一、适用范围

1. 本图集适用于非抗震设防区及抗震设防烈度为6、7度地区的一般民用建筑和中小型工业辅助建筑。
2. 本图集用于受侵蚀、表面温度高于100℃或有生产热源且表面温度经常高于60℃以及有振动、高湿度等环境的建筑时,除应遵守本图集有关规定外,尚应遵守国家现行有关标准、规范和规程的规定。

二、设计内容

1. 本图集适用于下列条件的矩形或L型过梁:
 (1) 墙厚有120、180(用于蒸压粉煤灰加气混凝土砌块)240、370mm四种,其中370mm墙厚的过梁由两根180mm

目录、说明(一)

图集号	91EG323
页 别	1

新编
设计
图集

宽的过梁拼成。

(2)洞口宽度为 700~3300mm。

2. 过梁断面类型、门窗洞口宽度及墙厚见下表：

截面类型		墙 厚 (mm)		
矩形过梁		120	180	240
L 型 翼缘挑长 (mm)	60	-	180	240
	120	-	180	240
	300	-	180	240
	500	-	-	240
门窗洞口宽度 (过梁净跨 l_n) (mm)		700 800 900	700、800、900、 1000、1200、1500、 1800、2100、2400、 2700、3000、3300	700、800、900、 1000、1200、1500、 1800、2100、2400、 2700、3000、3300

三、设计依据：

1. 建筑结构荷载规范 (GBJ9 - 87)；
2. 混凝土结构设计规范 (GBJ10 - 89)；
3. 砌体结构设计规范 (GBJ3 - 88)；
4. 钢筋混凝土工程施工及验收规范 (GBJ204 - 83)；
5. 混凝土强度检验评定标准 (GBJ107 - 87)。

四、采用材料

1. 混凝土强度等级：C20。
2. 钢筋：当 $d \leq 12$ 时，为Ⅰ级钢筋 (ϕ)， $f_y = 210 \text{ N/mm}^2$ ；
当 $d \geq 12$ 时，为Ⅱ级钢筋 (Φ)， $f_y = 310 \text{ N/mm}^2$ ；
 Φ^b4 为乙级冷拔低碳钢丝。

五、设计计算：

1. 有关计算系数取值：
 - (1) 结构构件的重要性系数 $r_0 = 1.0$ ；
 - (2) 永久荷载分项系数 $r_G = 1.20$ ；
 - (3) 可变荷载分项系数 $r_Q = 1.40$ 。

2. 荷载：

墙 厚 (mm)	120	180	240	
			矩形	L 型
允 许 设 计 荷 载 (KN/m)	0	0 8 12 16	0 8 12 16 24 32	0 8 12 16

注：允许荷载设计值为扣除过梁自重及 $l_n/3$ 砌体重量外的荷载设计值。

3. 荷载均取设计值，过梁按承受均布荷载的简支梁计算。

过梁上的均布荷载按下表情况统计采用：

梁板下墙体高度 h_w	$h_w < l_n/3$	$l_n > h_w \geq l_n/3$	$h_w \geq l_n$
梁 板 荷 载	梁、板传递的全部荷载		不予统计
墙体荷载 (仅适用于砖砌体)	墙体的全部 均布自重	仅统计高度为 $l_n/3$ 墙体的 均布自重	
过 梁 自 重	全 部 自 重		

注： l_n —过梁净跨度。

设计
计算
材料
数量
工程
名称
工程
地点

4. 构件允许挠度值: $W_f = l_0 / 200$ (l_0 — 为计算跨度)。
5. 最大裂缝宽度允许值: $W_{max} = 0.30mm$ 。
6. 计算跨度:
 - (1) 受弯承载力计算时, $l_0 = 1.05 l_n$ (l_n — 为过梁的净跨)。
 - (2) 受剪、受扭承载力计算时 $l_0 = l_n$ 。
7. 过梁端部支承处砌体局部抗压强度验算, 可按下列简化公司进行:

$$N_1 \leq 1.25 f A_1 \times 10^{-3}$$

式中: N_1 — 荷载设计值产生的梁端支承压力(KN)。
 f — 砌体的抗压强度设计值(MPa)。
 A_1 — 砌体局部受压面积(mm²)。

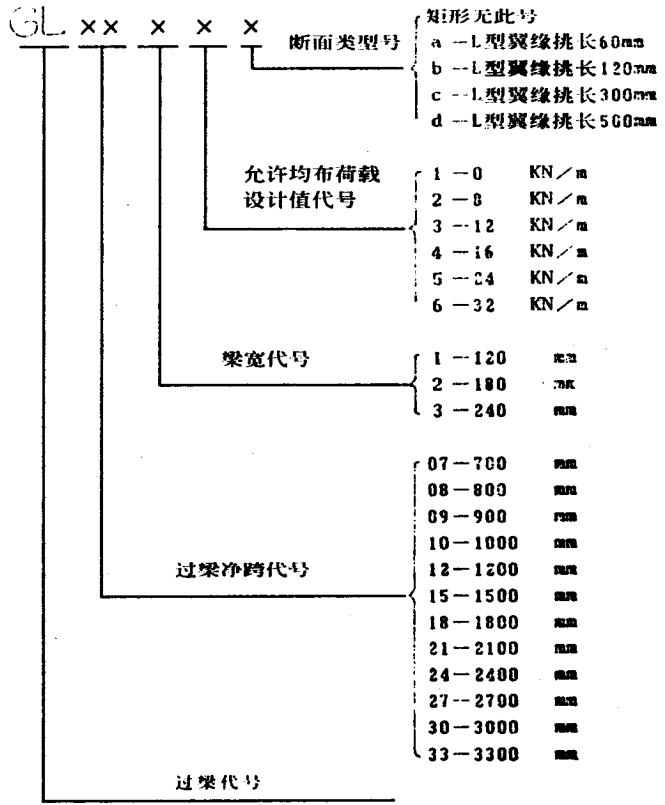
过梁端部砌体局部抗压强度值 (KN) 表:

砖强度等级	支承宽度 b (mm)	砂浆强度等级	
		M2.5	M5
MU7.5	180	64.26	73.98
	240	85.68	98.64
MU10	180	74.52	85.32
	240	99.36	113.76

注: (1) 本表过梁端部的支承长度系按 240mm 考虑。
 (2) 本表未考虑 L 型过梁中翼缘挑长 500mm, 支承长度为 300mm 时的情况。

六、选用方法

1. 过梁编号:



2. L型过梁的抗倾覆要求:

L型过梁倾覆力矩及满足抗倾覆力矩要求的相应墙高表:

翼缘挑长 (mm)	倾覆力矩 (KN·m/m)	抗倾覆力矩所需墙高(m)	
		180厚墙	240厚墙
120	0.1564	0.66	0.36
300	0.4602	1.86	1.10
500	0.9050	/	2.10

注:选用时,如不满足表中抗倾覆力矩的要求,由单项工程设计另行核算后解决。

3. 选用示例:

某宿舍层高 3.0m, 开间 3.6m, 墙厚 240mm, 山墙单面承重, 开有窗洞宽 1.5m, 高 1.6m, 洞顶过梁为带遮阳板 L 型, 翼缘挑长 300mm, 梁上砌体高 1.4m, 楼面板荷载设计值 3.3KN/m²。则梁板下墙体高度:

$$h_w = 3.0 - 0.9 - 1.6 = 0.5m$$

梁上砌体高: $l_n > 0.5m > l_n/3$ 取梁板传递全部荷载;

楼面板传荷载设计值: $3.3 \times 3.6 \times 0.5 = 5.94 \text{ KN/m}$;

选用 GL1532c, 允许荷载设计值为 8KN/m, 满足强度要求; 又 L 型过梁翼缘挑长 300mm, 查上表抗倾覆力矩所需墙高为 1.1m < 1.4m, 满足抗倾覆要求。

七、生产、施工、安装注意事项

1. 本图集过梁采用绑扎钢筋, 钢筋保护层厚度: 主筋为 25mm, 翼缘板为 15mm, 构造钢筋净保护层厚不小于 10mm。

2. 混凝土浇筑时, 应振捣密实, 成形后不得露筋和有影

响结构性能或使用的蜂窝、麻面和裂缝, 混凝土中不得掺入氯化物。

3. L 型过梁在施工安装期间, 必须采取临时支撑措施, 在不满足本说明第六、2 条抗倾覆要求且混凝土及砌体的强度未达到设计要求时, 严禁撤除临时支撑。
4. 预制过梁在运输及安装时, 混凝土强度不得低于设计强度的 70%。
5. 在预制过梁每端 250mm 处设 Ø22 吊装孔, 吊装完成后用砂浆将吊装孔堵塞。

八、验收及检验要求:

1. 构件尺寸允许偏差值见下表:

项 目	长度	宽度	高度	侧向弯曲	表面平整	主筋保护层厚度
允许偏差 (mm)	+10 -5	±5	±5	$l/750$ 且 ≤20	5	+10 -5

l —构件长度(mm)。

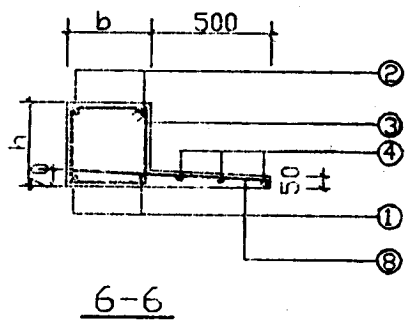
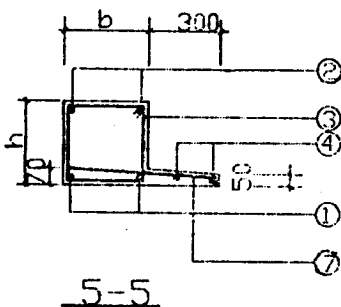
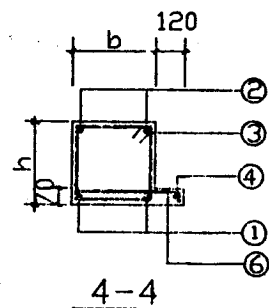
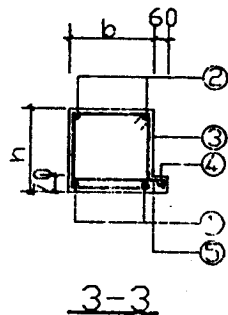
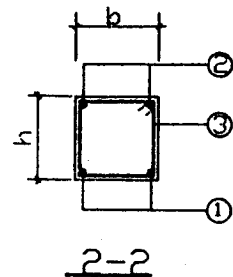
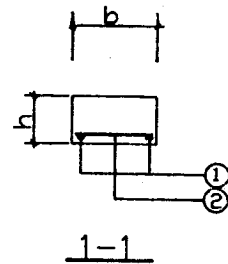
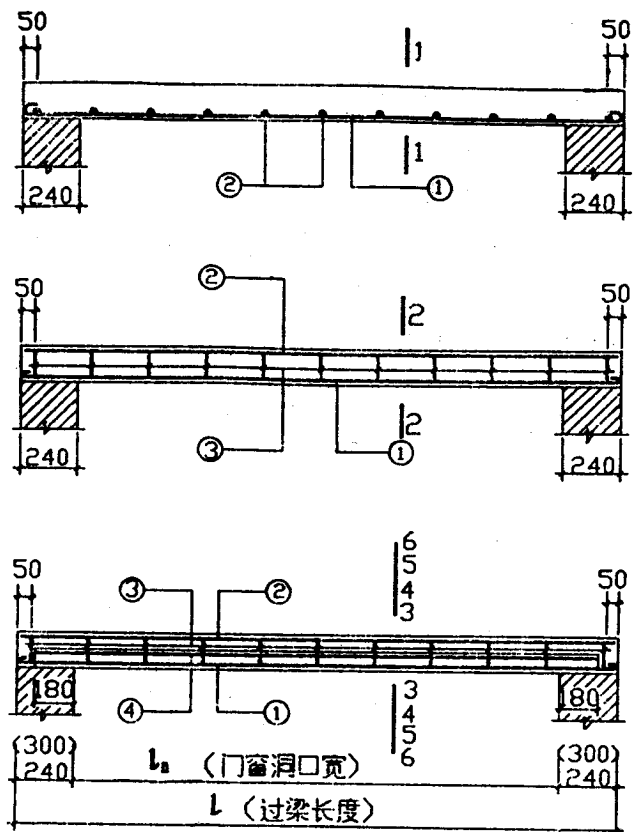
2. 本图集的过梁系考虑以现浇为主, 当过梁成批量预制生产时, 须按照《预制混凝土构件质量检验评定标准》(GBJ321-90)对过梁进行检验评定。

九、其 它

本图集未注明单位的尺寸, 均以毫米为单位。

说 明 (四)

图集号	91EX323
页 别	4



设计
 审核
 校对
 制图
 材料
 计算

过梁号	L_n (m)	L (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋				混 凝 土 用 量 (m^3)	构 件 自 重 (KN)
						①	②	③	钢 筋 用 量 (kg)		
GL0711	0.7	1.18	120×120	0	1~1	2Φ6	7Φ4@200		0.624	0.017	0.425
GL0811	0.8	1.28	"	0		2Φ6	"		0.669	0.018	0.461
GL0911	0.9	1.38	"	0		2Φ6	8Φ4@200		0.723	0.020	0.497
GL0721	0.7	1.18	180×120	0	1~1	2Φ6	7Φ4@200		0.666	0.026	0.637
GL0722			"	8		2Φ6	"		"	"	"
GL0723			"	12		2Φ6	"		"	"	"
GL0724			"	16		2Φ8	"		1.122	"	"
GL0821	0.8	1.28	180×120	0	1~1	2Φ6	7Φ4@200		0.710	0.028	0.691
GL0822			"	8		2Φ6	"		"	"	"
GL0823			"	12		2Φ8	"		1.201	"	"
GL0824			"	16		2Φ8	"		"	"	"
GL0921	0.9	1.38	180×120	0	1~1	2Φ6	8Φ4@200		0.771	0.030	0.745
GL0922			"	8		2Φ8	"		1.296	"	"
GL0923			"	12		2Φ8	"		"	"	"
GL0924			"	16		2Φ10	"		1.990	"	"
GL1021	1.0	1.48	180×120	0	1~1	2Φ6	8Φ4@200		0.815	0.032	0.799
GL1022			"	8		2Φ8	"		1.375	"	"
GL1023			"	12		2Φ10	"		2.113	"	"
GL1024			"	16		2Φ12	"		3.039	"	"
GL1221	1.2	1.68	180×180	0	2~2	2Φ6	2Φ6	9Φ4@200	2.156	0.054	1.361
GL1222			"	8		2Φ8	"	12Φ4@150	2.999	"	"
GL1223			"	12		2Φ10	"	"	3.826	"	"
GL1224			"	16		2Φ10	"	"	"	"	"

矩形过梁选用表(一)

过梁号	l_n (m)	l (m)	过梁断面 $b(\text{宽}) \times h(\text{高})$ (mm)	允许荷载 设计值 KN/m	断面 型号	钢 筋			混凝土 用 量 (m^3)	构 件 自 重 (KN)	
						①	②	③			
GL1521	1.5	1.98	180x180	0	2~2	2Φ6	2Φ6	14Φ4@200	2.565	0.064	1.604
GL1522			"	8		2Φ10	"	14Φ4@150	4.472	"	"
GL1523			"	12		2Φ12	"	"	5.669	"	"
GL1524			"	16		2Φ12	"	"	"	"	"
GL1821	1.8	2.28	180x180	0	2~2	2Φ8	2Φ8	16Φ4@150	4.806	0.074	1.847
GL1822			"	8		2Φ12	"	12Φ6@200	8.037	"	"
GL1823			"	12		2Φ12	"	"	7.717	"	"
GL1824			"	16		2Φ14	"	"	9.164	"	"
GL2121	2.1	2.58	180x180	0	2~2	2Φ8	2Φ8	18Φ4@150	5.423	0.084	2.090
GL2122			"	8		2Φ12	"	14Φ6@200	8.807	"	"
GL2123			180x240	12		2Φ12	"	"	9.180	0.112	2.786
GL2124			"	16		2Φ14	"	"	10.818	"	"
GL2421	2.4	2.88	180x180	0	2~2	2Φ10	2Φ8	20Φ4@150	7.399	0.093	2.333
GL2422			180x240	8		2Φ12	"	15Φ6@200	10.136	0.124	3.110
GL2423			"	12		2Φ14	"	"	11.966	"	"
GL2424			180x300	16		2Φ14	"	"	12.366	0.156	3.888
GL2721	2.7	3.18	180x240	0	2~2	2Φ10	2Φ8	22Φ4@150	8.410	0.137	3.434
GL2722			"	8		2Φ14	"	17Φ6@200	13.301	"	"
GL2723			"	12		2Φ16	"	"	15.640	"	"
GL2724			180x300	16		2Φ16	"	"	16.092	0.172	4.293
GL3021	3.0	3.48	180x240	0	2~2	2Φ12	2Φ8	24Φ4@150	11.194	0.150	3.758
GL3022			180x300	8		2Φ14	"	18Φ6@200	14.929	0.188	4.698
GL3023			"	12		2Φ16	"	"	17.489	"	"
GL3024			180x360	16		2Φ16	"	"	17.969	0.226	5.638
GL3321	3.3	3.78	180x240	0	2~2	2Φ12	2Φ8	26Φ4@150	12.130	0.163	4.082
GL3322			180x300	8		2Φ16	"	20Φ6@200	19.099	0.204	5.103
GL3323			180x360	12		2Φ16	"	"	19.632	0.245	6.124
GL3324			"	16		2Φ18	"	"	22.791	"	"
矩形过梁选用表 (二)									图集号	91G323	
									页 别	7	

过梁号	l_n (m)	ξ (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋				混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	钢 筋 用 量 (kg)		
GL0731	0.7		240×120	0	1~1	2Φ6	7Φ4@200		0.708	0.034	0.850
GL0732			"	8		"	"		"	"	"
GL0733			"	12		2Φ8	"		1.164	"	"
GL0734			"	16		"	"		"	"	"
GL0735			"	24		2Φ10	"		1.769	"	"
GL0736	1.18		"	32		"	"		"	"	"
GL0831	0.8		240×120	0	1~1	2Φ6	7Φ4@200		0.752	0.037	0.922
GL0832			"	8		"	"		"	"	"
GL0833			"	12		2Φ8	"		1.243	"	"
GL0834			"	16		"	"		"	"	"
GL0835			"	24		2Φ10	"		1.892	"	"
GL0836	1.28		"	32		2Φ12	"		2.710	"	"
GL0931	0.9		240×120	0	1~1	2Φ6	8Φ4@200		0.818	0.040	0.994
GL0932			"	8		2Φ8	"		1.343	"	"
GL0933			"	12		"	"		"	"	"
GL0934			"	16		2Φ10	"		2.038	"	"
GL0935			"	24		2Φ12	"		2.909	"	"
GL0936	1.38		240×180	32	2—2	2Φ10	2Φ6	10Φ4@150	3.299	0.060	1.490
GL1031	1.0		240×120	0	1~1	2Φ6	8Φ4@200		0.862	0.043	1.066
GL1032			"	8		2Φ8	"		1.422	"	"
GL1033			"	12		2Φ10	"		2.161	"	"
GL1034			"	16		2Φ12	"		3.087	"	"
GL1035			"	24		2Φ12	"		2.767	"	"
GL1036	1.48		240×180	32	2—2	2Φ12	2Φ6	10Φ4@150	4.476	0.064	1.598

矩形过梁选用表 (三)

过梁号	t_n (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋				混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	钢筋用量 (kg)		
GL1231	1.2	240×180	0	2—2	2Φ8	2Φ6	90 ^P 4@200	2.392	0.073	1.814
GL1232		"	8		2Φ8	"	120 ^P 4@150	3.141	"	"
GL1233		"	12		2Φ10	"	"	3.968	"	"
GL1234		"	16		"	"	"	"	"	"
GL1235		"	24		2Φ12	"	"	5.003	"	"
GL1236		"	32		2Φ12	"	"	4.683	"	"
GL1531	1.5	240×180	0	2—2	2Φ8	2Φ6	110 ^P 4@200	3.428	0.086	2.138
GL1532		"	8		2Φ10	"	140 ^P 4@150	4.638	"	"
GL1533		"	12		2Φ12	"	"	5.835	"	"
GL1534		"	16		2Φ12	"	"	5.515	"	"
GL1535		"	24		"	"	"	"	"	"
GL1536		240×240	32		"	"	"	5.682	0.114	2.851
GL1831	1.8	240×180	0	2—2	2Φ8	2Φ6	120 ^P 4@200	3.882	0.099	2.462
GL1832		"	8		2Φ12	2Φ8	160 ^P 4@150	7.449	"	"
GL1833		"	12		2Φ12	"	"	7.130	"	"
GL1834		"	16		2Φ14	"	"	8.576	"	"
GL1835		240×240	24		"	"	"	8.766	0.131	3.283
GL1836		"	32		"	"	"	"	"	"
GL2131	2.1	240×180	0	2—2	2Φ10	2Φ8	180 ^P 4@150	6.863	0.112	2.786
GL2132		"	8		2Φ12	"	140 ^P 6@200	9.180	"	"
GL2133		"	12		2Φ14	"	"	10.818	"	"
GL2134		240×240	16		"	"	"	11.191	0.149	3.715
GL2135		"	24		2Φ16	"	"	13.086	"	"
GL2136		240×300	32		"	"	"	13.458	0.186	4.644

矩形过梁选用表 (四)

过梁号	$\frac{l_n}{t}$ (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋				混凝土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	钢筋用量 (kg)		
GL2431	2.4	240×180	0	2—2	2Φ12	2Φ8	20Φ4@150	9.322	0.124	3.110
GL2432		"	8		2Φ14	"	15Φ6@200	11.966	"	"
GL2433		240×240	12		"	"	"	12.366	0.166	4.147
GL2434		"	16		2Φ16	"	"	14.482	"	"
GL2435		240×300	24		"	"	"	14.882	0.207	5.184
GL2436	2.88	240×360	32		"	"	"	15.282	0.249	6.221
GL2731	2.7	240×240	0	2—2	2Φ12	2Φ8	22Φ4@150	10.519	0.183	4.579
GL2732		"	8		2Φ14	"	17Φ6@200	13.754	"	"
GL2733		"	12		2Φ16	"	"	16.092	"	"
GL2734		"	16		2Φ18	"	"	18.747	"	"
GL2735		240×300	24		"	"	"	19.200	0.229	5.724
GL2736	3.18	240×360	32		"	"	"	19.653	0.275	6.869
GL3031	3.0	240×240	0	2—2	2Φ12	2Φ8	18Φ6@200	12.715	0.200	5.011
GL3032		"	8		2Φ16	"	"	17.489	"	"
GL3033		240×300	12		"	"	"	17.969	0.251	6.264
GL3034		"	16		2Φ18	"	"	20.875	"	"
GL3035		240×360	24		"	"	"	21.355	0.301	7.517
GL3036	3.48	"	32		2Φ20	"	"	24.593	"	"
GL3331	3.3	240×300	0	2—2	2Φ12	2Φ8	20Φ6@200	14.443	0.272	6.804
GL3332		"	8		2Φ16	"	"	19.632	"	"
GL3333		"	12		2Φ18	"	"	22.791	"	"
GL3334		"	16		2Φ20	"	"	26.310	"	"
GL3335		240×360	24		2Φ20	"	"	26.843	0.327	8.165
GL3336	3.78	240×420	32		2Φ22	"	"	32.465	0.381	9.526

矩形过梁选用表 (五)

设计
 审核
 校对
 制图
 日期

过梁号	t_n (m)	t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	④	⑤	钢 筋 用 量 (kg)		
GL0721a	0.7	1.18	180×120	0	3—3	2Φ6	2Φ6	7Φ4@200	1Φ6	6Φ4@200	1.907	0.030	0.750
GL0722a			"	8		"	"	"	"	"	"	"	"
GL0723a			"	12		"	"	"	"	"	"	"	"
GL0724a			"	16		2Φ8	"	"	"	"	2.363	"	"
GL0821a	0.8	1.28	180×120	0	3—3	2Φ6	2Φ6	7Φ4@200	1Φ6	7Φ4@200	2.050	0.033	0.814
GL0822a			"	8		"	"	"	"	"	"	"	"
GL0823a			"	12		2Φ8	"	"	"	"	2.540	"	"
GL0824a			"	16		"	"	"	"	"	"	"	"
GL0921a	0.9	1.38	180×120	0	3—3	2Φ6	2Φ6	8Φ4@200	1Φ6	7Φ4@200	2.220	0.035	0.878
GL0922a			"	8		2Φ8	"	"	"	"	2.745	"	"
GL0923a			"	12		"	"	"	"	"	"	"	"
GL0924a			"	16		2Φ10	"	"	"	"	3.439	"	"
GL1021a	1.0	1.48	180×120	0	3—3	2Φ6	2Φ6	8Φ4@200	1Φ6	8Φ4@200	2.363	0.038	0.942
GL1022a			"	8		2Φ8	"	"	"	"	2.923	"	"
GL1023a			"	12		2Φ10	"	"	"	"	3.661	"	"
GL1024a			"	16		2Φ12	"	"	"	"	4.587	"	"
GL1221a	1.2	1.68	180×180	0	3—3	2Φ6	2Φ6	9Φ4@200	1Φ6	9Φ4@200	2.783	0.061	1.526
GL1222a			"	8		2Φ8	"	12Φ4@150	"	"	3.626	"	"
GL1223a			"	12		2Φ10	"	"	"	"	4.453	"	"
GL1224a			"	16		"	"	"	"	"	"	"	"
GL1521a	1.5	1.98	180×180	0	3—3	2Φ6	2Φ6	11Φ4@200	1Φ6	10Φ4@200	3.290	0.072	1.799
GL1522a			"	8		2Φ10	"	14Φ4@150	"	"	5.197	"	"
GL1523a			"	12		2Φ12	"	"	"	"	6.394	"	"
GL1524a			"	16		2Φ12	"	"	"	"	"	"	"

a 型过梁选用表 (一)

设计
 审核
 校对
 制图
 材料
 核算
 日期

过梁号	$\frac{l_n}{l}$ (m) (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混凝土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	④	⑤	钢筋用量 (kg)		
GL1821a	1.8	180×180	0	3—3	2Φ8	2Φ8	16Φ ^B ₄ ③150	1Φ6	12Φ ^B ₄ ③200	5.661	0.083	2.074
GL1822a		"	8		2Φ12	"	12Φ ^B ₆ ③200	"	"	8.892	"	"
GL1823a		"	12		2Φ12	"	"	"	"	8.573	"	"
GL1824a	2.28	180×240	16		"	"	"	"	"	8.892	0.108	2.690
GL2121a	2.1	180×180	0	3—3	2Φ10	2Φ8	18Φ ^B ₄ ③150	1Φ6	13Φ ^B ₄ ③200	7.603	0.094	2.347
GL2122a		"	8		2Φ12	"	14Φ ^B ₆ ③200	"	"	9.760	"	"
GL2123a		180×240	12		"	"	"	"	"	10.133	0.122	3.045
GL2124a	2.58	"	16		2Φ14	"	"	"	"	11.772	"	"
GL2421a	2.4	180×180	0	3—3	2Φ10	2Φ8	20Φ ^B ₄ ③150	1Φ6	15Φ ^B ₄ ③200	8.483	0.105	2.623
GL2422a		180×240	8		2Φ12	"	15Φ ^B ₆ ③200	"	"	11.220	0.136	3.400
GL2423a		"	12		2Φ14	"	"	"	"	13.050	"	"
GL2424a	2.88	180×300	16		"	"	"	"	"	13.450	0.167	4.178
GL2721a	2.7	180×240	0	3—3	2Φ10	2Φ8	22Φ ^B ₄ ③150	1Φ6	16Φ ^B ₄ ③200	9.592	0.150	3.756
GL2722a		"	8		2Φ14	"	17Φ ^B ₆ ③200	"	"	14.483	"	"
GL2723a		"	12		2Φ16	"	"	"	"	16.821	"	"
GL2724a	3.18	180×300	16		"	"	"	"	"	17.274	0.185	4.616
GL3021a	3.0	180×240	0	3—3	2Φ12	2Φ8	24Φ ^B ₄ ③150	1Φ6	18Φ ^B ₄ ③200	12.506	0.164	4.111
GL3022a		180×300	8		2Φ14	"	18Φ ^B ₆ ③200	"	"	16.241	0.202	5.051
GL3023a		"	12		2Φ16	"	"	"	"	18.801	"	"
GL3024a	3.48	180×360	16		"	"	"	"	"	19.281	0.240	5.990
GL3321a	3.3	180×240	0	3—3	2Φ12	2Φ8	26Φ ^B ₄ ③150	1Φ6	19Φ ^B ₄ ③200	13.220	0.179	4.467
GL3322a		180×300	8		2Φ16	"	20Φ ^B ₆ ③200	"	"	20.509	0.220	5.488
GL3323a		180×360	12		"	"	"	"	"	21.042	0.260	6.509
GL3324a	3.78	"	16		2Φ18	"	"	"	"	24.201	"	"

a 型过梁选用表 (二)

过梁号	l_n (m)	过梁断面 b (宽) \times h (高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混凝土 用量 (m^3)	构 件 自 重 (KN)
	l (m)				①	②	③	④	⑤	钢筋用量 (kg)		
GL0731a	0.7	240x120	0	3—3	2 Φ 6	2 Φ 6	7 Φ 4@200	1 Φ 6	6 Φ 4@200	2.026	0.039	0.961
GL0732a		"	8		"	"	"	"	"	"	"	"
GL0733a		"	12		2 Φ 8	"	"	"	"	2.482	"	"
GL0734a		"	16		"	"	"	"	"	"	"	"
GL0831a	0.8	240x120	0	3—3	2 Φ 6	2 Φ 6	7 Φ 4@200	1 Φ 6	7 Φ 4@200	2.174	0.042	1.043
GL0832a		"	8		"	"	"	"	"	"	"	"
GL0833a		"	12		2 Φ 8	"	"	"	"	2.665	"	"
GL0834a		"	16		"	"	"	"	"	"	"	"
GL0931a	0.9	240x120	0	3—3	2 Φ 6	2 Φ 6	8 Φ 4@200	1 Φ 6	7 Φ 4@200	2.356	0.045	1.126
GL0932a		"	8		2 Φ 8	"	"	"	"	2.882	"	"
GL0933a		"	12		"	"	"	"	"	"	"	"
GL0934a		"	16		2 Φ 10	"	"	"	"	3.576	"	"
GL1031a	1.0	240x120	0	3—3	2 Φ 6	2 Φ 6	8 Φ 4@200	1 Φ 6	8 Φ 4@200	2.505	0.048	1.208
GL1032a		"	8		2 Φ 8	"	"	"	"	3.065	"	"
GL1033a		"	12		2 Φ 10	"	"	"	"	3.804	"	"
GL1034a		"	16		2 Φ 12	"	"	"	"	4.730	"	"
GL1231a	1.2	240x180	0	3—3	2 Φ 8	2 Φ 6	9 Φ 4@200	1 Φ 6	9 Φ 4@200	3.572	0.079	1.979
GL1232a		"	8		2 Φ 8	"	"	"	"	3.822	"	"
GL1233a		"	12		2 Φ 10	"	"	"	"	4.649	"	"
GL1234a		"	16		"	"	"	"	"	"	"	"
GL1531a	1.5	240x180	0	3—3	2 Φ 8	2 Φ 6	11 Φ 4@200	1 Φ 6	10 Φ 4@200	4.213	0.093	2.334
GL1532a		"	8		2 Φ 10	"	"	"	"	5.423	"	"
GL1533a		"	12		2 Φ 12	"	"	"	"	6.620	"	"
GL1534a		"	16		2 Φ 12	"	"	"	"	6.300	"	"

a型过梁选用表(三)

设计
 审核
 校对
 制图
 日期

过梁号	l _n (m)	l (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	④	⑤	钢 筋 用 量 (kg)		
GL1831a	1.8	2.28	240×180	0	3—3	2Φ8	2Φ8	16Φ4@150	1Φ6	12Φ4@200	5.923	0.108	2.690
GL1832a			"	8		2Φ12	"	12Φ6@200	"	"	9.283	"	"
GL1833a			"	12		2Φ12	"	"	"	"	8.964	"	"
GL1834a			"	16		2Φ14	"	"	"	"	10.410	"	"
GL2131a	2.1	2.58	240×180	0	3—3	2Φ10	2Φ8	18Φ4@150	1Φ6	13Φ4@200	7.894	0.122	3.045
GL2132a			"	8		2Φ12	"	14Φ6@200	"	"	10.211	"	"
GL2133a			"	12		2Φ14	"	"	"	"	11.849	"	"
GL2134a			240×240	16		"	"	"	"	"	12.222	0.159	3.973
GL2431a	2.4	2.88	240×180	0	3—3	2Φ12	2Φ8	20Φ4@150	1Φ6	15Φ4@200	10.494	0.136	3.400
GL2432a			"	8		2Φ14	"	15Φ6@200	"	"	13.139	"	"
GL2433a			240×240	12		"	"	"	"	"	13.539	0.178	4.437
GL2434a			"	16		2Φ16	"	"	"	"	15.655	"	"
GL2731a	2.7	3.18	240×240	0	3—3	2Φ12	2Φ8	22Φ4@150	1Φ6	16Φ4@200	11.796	0.196	4.911
GL2732a			"	8		2Φ14	"	17Φ6@200	"	"	15.031	"	"
GL2733a			"	12		2Φ16	"	"	"	"	17.369	"	"
GL2734a			"	16		2Φ18	"	"	"	"	20.024	"	"
GL3031a	3.0	3.48	240×240	0	3—3	2Φ12	2Φ8	24Φ4@150	1Φ6	18Φ4@200	12.578	0.215	5.364
GL3032a			"	8		2Φ16	"	18Φ6@200	"	"	18.908	"	"
GL3033a			240×300	12		"	"	"	"	"	19.388	0.265	6.617
GL3034a			"	16		2Φ18	"	"	"	"	22.294	"	"
GL3331a	3.3	3.78	240×300	0	3—3	2Φ12	2Φ8	20Φ6@200	1Φ6	19Φ4@200	15.966	0.288	7.189
GL3332a			"	8		2Φ16	"	"	"	"	21.155	"	"
GL3333a			"	12		2Φ18	"	"	"	"	24.314	"	"
GL3334a			"	16		2Φ20	"	"	"	"	27.833	"	"

设计
 审核
 校对
 制图
 计算
 材料
 备注

过梁号	$\frac{t_n}{t}$ (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	④	⑤	钢筋用量 (kg)		
GL0721b	0.7	180x120	0	4—4	2Φ6	2Φ6	7Φ4@200	1Φ6	6Φ6@200	2.223	0.034	0.860
GL0722b		"	8		"	"	"	"	"	"	"	"
GL0723b		"	12		"	"	"	"	"	"	"	"
GL0724b		"	16		2Φ8	"	"	"	"	2.679	"	"
GL0821b	0.8	180x120	0	4—4	2Φ6	2Φ6	7Φ4@200	1Φ6	7Φ6@200	2.418	0.037	0.935
GL0822b		"	8		"	"	"	"	"	"	"	"
GL0823b		"	12		2Φ8	"	"	"	"	2.909	"	"
GL0824b		"	16		"	"	"	"	"	"	"	"
GL0921b	0.9	180x120	0	4—4	2Φ6	2Φ6	8Φ4@200	1Φ6	7Φ6@200	2.589	0.040	1.010
GL0922b		"	8		2Φ8	"	"	"	"	3.114	"	"
GL0923b		"	12		"	"	"	"	"	"	"	"
GL0924b		"	16		2Φ10	"	"	"	"	3.808	"	"
GL1021b	1.0	180x120	0	4—4	2Φ6	2Φ6	8Φ4@200	1Φ6	8Φ6@200	2.784	0.043	1.085
GL1022b		"	8		2Φ8	"	"	"	"	3.344	"	"
GL1023b		"	12		2Φ10	"	"	"	"	4.083	"	"
GL1024b		"	16		2Φ12	"	"	"	"	5.008	"	"
GL1221b	1.2	180x180	0	4—4	2Φ8	2Φ6	9Φ4@200	1Φ6	9Φ6@200	3.886	0.068	1.688
GL1222b		"	8		"	"	12Φ4@150	"	"	4.100	"	"
GL1223b		"	12		2Φ10	"	"	"	"	4.927	"	"
GL1224b		"	16		"	"	"	"	"	"	"	"
GL1521b	1.5	180x180	0	4—4	2Φ8	2Φ6	11Φ4@200	1Φ6	10Φ6@200	4.550	0.080	1.994
GL1522b		"	8		2Φ10	"	14Φ4@150	"	"	5.724	"	"
GL1523b		"	12		2Φ12	"	"	"	"	6.921	"	"
GL1524b		"	16		"	"	"	"	"	"	"	"

b型过梁选用表(一)

设计
审核
校对
制图
材料
数量

过梁号	t_n (m)	t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋					混凝土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	④	⑤		
GL1821b	1.8		180×180	0	4—4	2Φ8	2Φ8	16Φ4@150	1Φ6	12Φ6@200	6.294	2.300
GL1822b			"	8		2Φ12	"	12Φ6@200	"	"	9.524	"
GL1823b			"	12		2Φ12	"	"	"	"	8.205	"
GL1824b	2.28		180×240	16	4—4	"	"	"	"	"	9.524	2.916
GL2121b			180×180	0		2Φ10	2Φ8	18Φ4@150	1Φ6	13Φ6@200	8.288	2.606
GL2122b			"	8		2Φ12	"	14Φ6@200	"	"	10.445	"
GL2123b	2.58		180×240	12		2Φ12	"	"	"	"	10.818	3.301
GL2124b			"	16		2Φ14	"	"	"	"	12.456	"
GL2421b	2.4		180×180	0	4—4	2Φ10	2Φ8	20Φ4@150	1Φ6	15Φ6@200	9.273	2.913
GL2422b			180×240	8		2Φ12	"	15Φ6@200	"	"	12.010	3.690
GL2423b			"	12		2Φ14	"	"	"	"	13.840	"
GL2424b	2.88		180×300	16		"	"	"	"	"	14.240	4.468
GL2721b	2.7		180×240	0	4—4	2Φ12	2Φ8	22Φ4@150	1Φ6	16Φ6@200	12.282	4.077
GL2722b			"	8		2Φ14	"	17Φ6@200	"	"	15.326	"
GL2723b			"	12		2Φ16	"	"	"	"	17.664	"
GL2724b	3.18		180×300	16		"	"	"	"	"	18.117	4.936
GL3021b	3.0		180×300	0	4—4	2Φ12	2Φ8	18Φ6@200	1Φ6	18Φ6@200	15.294	5.404
GL3022b			"	8		2Φ14	"	"	"	"	17.189	"
GL3023b			180×360	12		"	"	"	"	"	17.669	6.343
GL3024b	3.48		"	16		2Φ16	"	"	"	"	20.229	"
GL3321b	3.3		180×300	0	4—4	2Φ12	2Φ8	20Φ6@200	1Φ6	19Φ6@200	16.641	5.871
GL3322b			180×360	8		2Φ14	"	"	"	"	19.261	6.892
GL3323b			"	12		2Φ16	"	"	"	"	22.043	"
GL3324b	3.78		"	16		2Φ18	"	"	"	"	25.202	"

b型过梁选用表(二)

设计
审核
校对
制图
日期

过梁号	$\frac{l_n}{b}$ (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m³)	构 件 自 重 (KN)
					①	②	③	④	⑤	钢筋用量 (kg)		
GL0731b	0.7	240×120	0	4—4	2Φ6	2Φ6	7Φ4 ^b 200	1Φ6	6Φ6 ^b 200	2.386	0.043	1.072
GL0732b		"	8		"	"	"	"	"	"	"	"
GL0733b		"	12		2Φ8	"	"	"	"	2.842	"	"
GL0734b		"	16		"	"	"	"	"	"	"	"
GL0831b	0.8	240×120	0	4—4	2Φ6	2Φ6	7Φ4 ^b 200	1Φ6	7Φ6 ^b 200	2.595	0.047	1.165
GL0832b		"	8		"	"	"	"	"	"	"	"
GL0833b		"	12		2Φ8	"	"	"	"	3.086	"	"
GL0834b		"	16		"	"	"	"	"	"	"	"
GL0931b	0.9	240×120	0	4—4	2Φ6	2Φ6	8Φ4 ^b 200	1Φ6	7Φ6 ^b 200	2.777	0.050	1.258
GL0932b		"	8		2Φ8	"	"	"	"	3.302	"	"
GL0933b		"	12		"	"	"	"	"	"	"	"
GL0934b		"	16		2Φ10	"	"	"	"	3.996	"	"
GL1031b	1.0	240×120	0	4—4	2Φ6	2Φ6	8Φ4 ^b 200	1Φ6	8Φ6 ^b 200	2.986	0.054	1.351
GL1032b		"	8		2Φ8	"	"	"	"	3.546	"	"
GL1033b		"	12		2Φ10	"	"	"	"	4.284	"	"
GL1034b		"	16		2Φ12	"	"	"	"	5.210	"	"
GL1231b	1.2	240×180	0	4—4	2Φ8	2Φ6	9Φ4 ^b 200	1Φ6	9Φ6 ^b 200	4.066	0.086	2.142
GL1232b		"	8		2Φ8	"	12Φ4 ^b 150	"	"	4.315	"	"
GL1233b		"	12		2Φ10	"	"	"	"	5.189	"	"
GL1234b		"	16		2Φ10	"	"	"	"	"	"	"
GL1531b	1.5	240×180	0	4—4	2Φ8	2Φ6	11Φ4 ^b 200	1Φ6	10Φ6 ^b 200	4.814	0.101	2.529
GL1532b		"	8		2Φ10	"	14Φ4 ^b 150	"	"	6.023	"	"
GL1533b		"	12		2Φ12	"	"	"	"	7.220	"	"
GL1534b		"	16		2Φ12	"	"	"	"	6.901	"	"

b型过梁选用表(三)

过梁号	t_n (m) t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混凝土 用量 (m ³)	构 件 自 重 (KN)
					①	②	③	④	⑤	钢筋用量 (kg)		
GL1831b	1.8	240×180	0	4—4	2Φ8	2Φ8	16Φ ^P ₄ ②150	1Φ6	12Φ6②200	6.644	0.117	2.916
GL1832b		"	8		2Φ12	"	12Φ6②200	"	"	10.004	"	"
GL1833b		"	12		2Φ12	"	"	"	"	9.684	"	"
GL1834b		"	16		2Φ14	"	"	"	"	11.131	"	"
GL2131b	2.1	240×180	0	4—4	2Φ10	2Φ8	18Φ ^P ₄ ②150	1Φ6	13Φ6②200	8.675	0.132	3.303
GL2132b		"	8		2Φ12	"	14Φ6②200	"	"	10.991	"	"
GL2133b		"	12		2Φ14	"	"	"	"	12.630	"	"
GL2134b		240×240	16		2Φ14	"	"	"	"	13.003	0.169	4.232
GL2431b	2.4	240×180	0	4—4	2Φ12	2Φ8	20Φ ^P ₄ ②150	1Φ6	15Φ6②200	11.395	0.148	3.690
GL2432b		240×240	8		2Φ12	"	15Φ6②200	"	"	12.609	0.1891	4.727
GL2433b		"	12		2Φ14	"	"	"	"	14.440	"	"
GL2434b		"	16		2Φ16	"	"	"	"	16.556	"	"
GL2731b	2.7	240×240	0	4—4	2Φ12	2Φ8	22Φ ^P ₄ ②150	1Φ6	16Φ6②200	12.757	0.209	5.222
GL2732b		"	8		2Φ14	"	17Φ6②200	"	"	15.992	"	"
GL2733b		"	12		2Φ16	"	"	"	"	18.330	"	"
GL2734b		240×300	16		"	"	"	"	"	18.783	0.255	6.367
GL3031b	3.0	240×240	0	4—4	2Φ12	2Φ8	18Φ6②200	1Φ6	18Φ6②200	15.214	0.229	5.717
GL3032b		"	8		2Φ16	"	"	"	"	19.989	"	"
GL3033b		240×300	12		"	"	"	"	"	20.469	0.279	6.969
GL3034b		"	16		2Φ18	"	"	"	"	23.375	"	"
GL3331b	3.3	240×300	0	4—4	2Φ12	2Φ8	20Φ6②200	1Φ6	19Φ6②200	17.107	0.303	7.572
GL3332b		"	8		2Φ16	"	"	"	"	22.296	"	"
GL3333b		"	12		2Φ18	"	"	"	"	25.455	"	"
GL3334b		240×360	16		2Φ18	"	"	"	"	25.987	0.357	8.933

b型过梁选用表(四)

过梁号	t _n (m) t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混凝土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	④	⑦	钢筋用量 (kg)		
GL0721c	0.7	180×120	0	5—5	2Φ6	2Φ6	13Φ6@100	2Φ6	6Φ6@200	4.079	0.047	1.179
GL0722c		"	8		2Φ8	"	"	"	"	4.577	"	"
GL0723c		"	12		"	"	"	"	"	"	"	"
GL0724c		"	16		"	"	"	"	"	"	"	"
GL0821c	0.8	180×120	0	5—5	2Φ6	2Φ6	14Φ6@100	2Φ6	7Φ6@200	4.476	0.051	1.278
GL0822c		"	8		2Φ8	"	"	"	"	5.008	"	"
GL0823c		"	12		2Φ10	"	"	"	"	5.711	"	"
GL0824c		"	16		"	"	"	"	"	"	"	"
GL0921c	0.9	180×120	0	5—5	2Φ8	2Φ6	15Φ6@100	2Φ6	7Φ6@200	5.309	0.055	1.377
GL0922c		"	8		2Φ10	"	"	"	"	6.056	"	"
GL0923c		"	12		"	"	"	"	"	"	"	"
GL0924c		"	16		"	"	"	"	"	"	"	"
GL1021c	1.0	180×120	0	5—5	2Φ8	2Φ6	16Φ6@100	2Φ6	8Φ6@200	5.730	0.059	1.476
GL1022c		"	8		2Φ10	"	"	"	"	6.522	"	"
GL1023c		"	12		"	"	"	"	"	"	"	"
GL1024c		180×180	16		"	"	11Φ6@150	"	"	6.149	0.076	1.908
GL1221c	1.2	180×180	0	5—5	2Φ8	2Φ8	18Φ6@100	2Φ6	9Φ6@200	7.547	0.086	2.160
GL1222c		"	8		2Φ10	"	"	"	"	8.428	"	"
GL1223c		"	12		2Φ10	"	"	"	"	"	"	"
GL1224c		"	16		2Φ12	"	"	"	"	9.527	"	"
GL1521c	1.5	180×180	0	5—5	2Φ10	2Φ8	21Φ6@100	2Φ6	10Φ6@200	9.767	0.102	2.539
GL1522c		"	8		2Φ12	"	"	"	"	11.029	"	"
GL1523c		"	12		2Φ12	"	"	"	"	"	"	"
GL1524c		"	16		2Φ12	"	"	"	"	10.710	"	"

c型过梁选用表(一)

设计
计算
图
表

过梁号	t_n (m) t_s (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m³)	构 件 自 重 (KN)
					①	②	③	④	⑦	钢 筋 用 量 (kg)		
GL1821c	1.8	180×180	0	5—5	2Φ10	2Φ8	24Φ6@100	2Φ6	12Φ6@200	11.227	0.117	2.917
GL1822c		"	8		2Φ12	"	"	"	"	12.332	"	"
GL1823c		"	12		"	"	"	"	"	"	"	"
GL1824c	2.4	180×240	16		"	"	13Φ6@200	"	"	10.920	0.143	3.564
GL2121c	2.1	180×180	0	5—5	2Φ12	2Φ8	27Φ6@100	2Φ6	13Φ6@200	14.154	0.132	3.295
GL2122c		180×240	8		2Φ12	"	19Φ6@150	"	"	13.062	0.161	4.023
GL2123c		"	12		"	"	"	"	"	"	"	"
GL2124c	2.7	"	16		2Φ14	"	"	"	"	14.777	"	"
GL2421c	2.4	180×180	0	5—5	2Φ12	2Φ8	30Φ6@100	2Φ6	15Φ6@200	15.457	0.147	3.673
GL2422c		180×240	8		2Φ12	"	21Φ6@150	"	"	14.578	0.179	4.483
GL2423c		"	12		2Φ14	"	"	"	"	16.485	"	"
GL2424c	3.0	180×300	16		"	"	16Φ6@200	"	"	15.979	0.212	5.293
GL2721c	2.7	180×240	0	5—5	2Φ12	2Φ8	33Φ6@100	2Φ6	16Φ6@200	17.838	0.198	4.941
GL2722c		"	8		2Φ14	"	"	"	"	19.937	"	"
GL2723c		180×300	12		"	"	17Φ6@200	"	"	17.407	0.233	5.833
GL2724c	3.3	"	16		2Φ16	"	"	"	"	19.834	"	"
GL3021c	3.0	180×240	0	5—5	2Φ12	2Φ8	36Φ6@100	2Φ6	18Φ6@200	19.540	0.216	5.400
GL3022c		180×300	8		2Φ14	"	25Φ6@150	"	"	20.446	0.255	6.373
GL3023c		"	12		2Φ16	"	"	"	"	23.096	"	"
GL3024c	3.6	180×360	16		"	"	19Φ6@200	"	"	22.323	0.294	7.345
GL3321c	3.3	180×240	0	5—5	2Φ14	2Φ8	39Φ6@100	2Φ6	19Φ6@200	23.606	0.234	5.860
GL3322c		180×300	8		2Φ16	"	27Φ6@150	"	"	24.959	0.277	6.913
GL3323c		180×360	12		2Φ16	"	20Φ6@200	"	"	24.000	0.319	7.966
GL3324c	3.9	"	16		2Φ18	"	"	"	"	27.259	"	"

c型过梁选用表(二)

设计
 审核
 校对
 制图
 计算
 材料
 数量
 核算
 工程
 名称

过梁号	t_n (m)	t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋					混凝土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	④	⑤		
GL0731c	0.7	1.3	240×120	0	5—5	2Φ6	2Φ6	7Φ6@200	2Φ6	6Φ6@200	3.557	1.413
GL0732c			"	8		"	"	"	"	"	"	"
GL0733c			"	12		2Φ8	"	"	"	"	4.054	"
GL0734c			"	16		"	"	"	"	"	"	"
GL0831c	0.8	1.4	240×120	0	5—5	2Φ6	2Φ6	8Φ6@200	2Φ6	7Φ6@200	3.983	1.530
GL0832c			"	8		2Φ8	"	"	"	"	4.515	"
GL0833c			"	12		"	"	"	"	"	"	"
GL0834c			"	16		2Φ10	"	"	"	"	5.218	"
GL0931c	0.9	1.5	240×120	0	5—5	2Φ8	2Φ6	11Φ8@150	2Φ6	7Φ6@200	6.533	1.647
GL0932c			"	8		2Φ10	"	"	"	"	7.280	"
GL0933c			"	12		"	"	"	"	"	"	"
GL0934c			"	16		2Φ12	"	"	"	"	8.217	"
GL1031c	1.0	1.6	240×120	0	5—5	2Φ8	2Φ6	11Φ8@150	2Φ6	8Φ6@200	6.834	1.764
GL1032c			"	8		2Φ10	"	"	"	"	7.625	"
GL1033c			"	12		2Φ12	"	"	"	"	8.616	"
GL1034c			"	16		"	"	"	"	"	"	"
GL1231c	1.2	1.8	240×180	0	5—5	2Φ8	2Φ8	10Φ6@200	2Φ6	9Φ6@200	6.655	2.647
GL1232c			"	8		2Φ8	"	"	"	"	"	"
GL1233c			"	12		2Φ10	"	"	"	"	7.535	"
GL1234c			"	16		"	"	"	"	"	"	"
GL1531c	1.8	2.1	240×180	0	5—5	2Φ8	2Φ8	11Φ6@200	2Φ6	10Φ6@200	7.582	3.106
GL1532c			"	8		2Φ10	"	"	"	"	8.595	"
GL1533c			"	12		2Φ12	"	"	"	"	9.857	"
GL1534c			"	16		2Φ12	"	"	"	"	9.538	"

设计
审核
校对
制图
材料

过梁号	l _n (m)	t (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
						①	②	③	④	⑦	钢 筋 用 量 (kg)		
GL1831c	1.8	2.4	240×180	0	5—5	2Φ12	2Φ8	17Φ8@150	2Φ6	12Φ6@200	14.616	0.143	3.565
GL1832c			"	8		2Φ12	"	"	"	"	14.296	"	"
GL1833c			"	12		"	"	"	"	"	"	"	"
GL1834c			"	16		2Φ14	"	"	"	"	15.820	"	"
GL2131c	2.1	2.7	240×180	0	5—5	2Φ12	2Φ8	19Φ8@150	2Φ6	13Φ6@200	16.316	0.161	4.023
GL2132c			"	8		2Φ14	"	"	"	"	17.711	"	"
GL2133c			"	12		2Φ16	"	"	"	"	19.695	"	"
GL2134c			240×240	16		2Φ14	"	14Φ6@200	"	"	14.391	0.200	4.996
GL2431c	2.4	3.0	240×180	0	5—5	2Φ12	2Φ10	21Φ8@150	2Φ6	15Φ6@200	19.152	0.179	4.483
GL2432c			240×240	8		2Φ12	"	16Φ6@200	"	"	15.594	0.223	5.563
GL2433c			"	12		2Φ14	"	"	"	"	17.502	"	"
GL2434c			"	16		2Φ16	"	"	"	"	19.707	"	"
GL2731c	2.7	3.3	240×240	0	5—5	2Φ12	2Φ10	23Φ8@150	2Φ6	16Φ6@200	22.015	0.245	6.130
GL2732c			"	8		2Φ16	"	"	"	"	26.602	"	"
GL2733c			"	12		"	"	"	"	"	"	"	"
GL2734c			240×300	16		"	"	17Φ6@200	"	"	21.956	0.293	7.317
GL3031c	3.0	3.6	240×240	0	5—5	2Φ14	2Φ10	25Φ8@150	2Φ6	18Φ6@200	26.428	0.268	6.697
GL3032c			"	8		2Φ18	"	"	"	"	32.084	"	"
GL3033c			240×300	12		2Φ16	"	19Φ6@200	"	"	24.152	0.320	7.993
GL3034c			"	16		2Φ18	"	"	"	"	27.159	"	"
GL3331c	3.3	3.9	240×300	0	5—5	2Φ12	2Φ10	20Φ6@200	2Φ6	19Φ6@200	20.621	0.347	8.668
GL3332c			"	8		2Φ16	"	"	"	"	25.975	"	"
GL3333c			"	12		2Φ18	"	"	"	"	29.235	"	"
GL3334c			240×360	16		2Φ18	"	"	"	"	29.767	0.403	10.071

c型过梁选用表(四)

设计图
审核
校对
制图
设计

过梁号	$\frac{l_n}{a}$ (m)	过梁断面 b(宽)×h(高) (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋						混 凝 土 用 量 (m ³)	构 件 自 重 (KN)
					①	②	③	④	⑤	钢 筋 用 量 (kg)		
GL0731d	0.7	240×120	0	6—6	2Φ8	2Φ6	9Φ8@150	3Φ6	6Φ6@200	5.992	0.069	1.731
GL0732d		"	8		2Φ10	"	"	"	"	6.651	"	"
GL0733d		"	12		"	"	"	"	"	"	"	"
GL0734d		"	16		"	"	"	"	"	"	"	"
GL0831d	0.8	240×120	0	6—6	2Φ8	2Φ6	10Φ8@150	3Φ6	7Φ6@200	6.644	0.075	1.878
GL0832d		"	8		2Φ10	"	"	"	"	7.347	"	"
GL0833d		"	12		"	"	"	"	"	"	"	"
GL0834d		"	16		2Φ12	"	"	"	"	8.230	"	"
GL0931d	0.9	240×120	0	6—6	2Φ8	2Φ6	11Φ8@150	3Φ6	7Φ6@200	7.119	0.081	2.025
GL0932d		"	8		2Φ10	"	"	"	"	7.866	"	"
GL0933d		"	12		2Φ12	"	"	"	"	8.803	"	"
GL0934d		"	16		"	"	"	"	"	"	"	"
GL1031d	1.0	240×120	0	6—6	2Φ8	2Φ6	11Φ8@150	3Φ6	8Φ6@200	7.486	0.087	2.172
GL1032d		"	8		2Φ12	"	"	"	"	9.269	"	"
GL1033d		"	12		"	"	"	"	"	"	"	"
GL1034d		"	16		2Φ12	"	"	"	"	8.949	"	"
GL1231d	1.2	240×180	0	6—6	2Φ10	2Φ6	13Φ8@150	3Φ6	9Φ6@200	10.109	0.125	3.114
GL1232d		"	8		2Φ12	"	"	"	"	11.209	"	"
GL1233d		"	12		"	"	"	"	"	"	"	"
GL1234d		"	16		2Φ12	"	"	"	"	10.889	"	"
GL1531d	1.5	240×180	0	6—6	2Φ10	2Φ8	15Φ8@150	3Φ6	10Φ6@200	12.373	0.147	3.663
GL1532d		"	8		2Φ12	"	"	"	"	13.316	"	"
GL1533d		"	12		"	"	"	"	"	"	"	"
GL1534d		"	16		2Φ14	"	"	"	"	14.647	"	"

设计
审核
校对
制图
材料
计算
详图

过梁号	l_n (m)	t (m)	过梁断面 $b(\text{宽}) \times h(\text{高})$ (mm)	允许荷载 设计值 (KN/m)	断面 型号	钢 筋					混 凝 土 用 量 (m^3)	构 件 自 重 (KN)
						①	②	③	④	⑤		
GL1831d	1.8		240x180	0	6—6	2Φ12	2Φ8	17Φ8@150	3Φ6	12Φ6@200	15.624	4.212
GL1832d			"	8		2Φ12	"	"	"	"	"	"
GL1833d			"	12		2Φ14	"	"	"	"	"	"
GL1834d			240x240	16		2Φ14	"	"	"	"	0.203	5.076
GL2131d	2.1		240x180	0	6—6	2Φ12	2Φ8	19Φ8@150	3Φ6	13Φ6@200	17.115	4.761
GL2132d			"	8		2Φ14	"	"	"	"	"	"
GL2133d			240x240	12		"	"	"	"	"	0.229	5.733
GL2134d			"	16		"	"	"	"	"	"	"
GL2431d	2.4		240x180	0	6—6	2Φ12	2Φ8	21Φ8@150	3Φ6	15Φ6@200	19.103	5.310
GL2432d			240x240	8		2Φ14	"	"	"	"	0.256	6.390
GL2433d			"	12		2Φ16	"	"	"	"	"	"
GL2434d			"	16		"	"	"	"	"	"	"

钢 筋 长 度 计 算 表

钢筋编号	简 图	备 注	钢筋编号	简 图	备 注
①	$l-20+15d$	用于 I 级 1-1 至 6-6 断面	④	l_n+340	用于 3-3 至 6-6 断面
	$l-20$	用于 II 级 1-1 至 6-6 断面	⑤	$b+20$	用于 3-3 断面
	$2l-20$	用于直径 $\geq \Phi 22$ 时	⑥	$b+80$	用于 4-4 断面
②	$l-20$	用于 2-2 至 6-6 断面		$b+260$	用于 5-5 断面
	$b-20$	仅用于矩形 1-1 断面	⑦	$b+460$	用于 6-6 断面
③	$2b+40$	用于 2-2 至 6-6 断面	⑧	$b+460$	用于 6-6 断面

注： l —为过梁长度 (mm)， l_n —过梁净跨 (mm)。
 b —为过梁宽度 (mm)。