

山东省建筑标准设计



水泥炉渣小型空心砌块墙体构造

(用于非承重墙)

DBJT 14—2

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1994

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设计说明

一、适用范围

本图集为水泥炉渣小型空心砌块墙体构造,适用于高层建筑抗震烈度 ≤ 7 地区以及多层房屋的框架填充墙和工业建筑的围护墙体等。

水泥炉渣小型空心砌块建筑模数应按《建筑模数协调统一标准》(GBJ2—86)进行设计,平面、空间及所有建筑细部尺寸均应按 100mm 数列进级,且应优先采用 2M 以减少辅助砌块用量,简化构造,方便施工。

二、设计依据

- 1、《砌体结构设计规范》(GBJ3—88)
- 2、《建筑抗震设计规范》(GBJ11—89)
- 3、《混凝土结构设计规范》(GBJ10—89)
- 4、《混凝土小型空心砌块》(GB8239—87)

参考依据

- 1、《混凝土空心小型砌块建筑设计与施工规程》(GBJ14—82)
- 2、《混凝土小型空心砌块检验方法》(GB411—83)

三、砌块型号、规格及模数

1、砌块型号,规格及模数

本图集有 24a、24、19、12 等四种系列。

24a 系列厚度为 240mm 双排孔,用于外墙,有七种规格,主块为 K24a—1、K24a—2(2a),其它规格为辅助块。

24 系列 19 系列 12 系列代表墙厚 240mm、190mm、120mm,均为单排孔用于内隔墙,有八种规格,主块分别为 K24—1、K24—2、K19—1、K19—2、K12—1、K12—2 其它规格均为辅助块。

以上系列选用规格详见砌块类型表。

砌块的主体模数为 200mm,所有建筑宜采用 2M,这样可大大减少辅助块的用量,但在设计中采用 3M 时可用 $K_{xx}-3$ 、 $K_{xx}-4$ 、 $K_{xx}-7$,来调整。

2、砌块类型及砌块标注方法

$K_{xx}-x$ 砌块类型
砌块墙厚

四、砌块强度等级与选用方法

水泥炉渣小型空心砌块的强度等级由抗压强度设计值确定,应符合表 1 规定

表 1

砌块的强度等级	抗压强度(按毛面积计算)MPa	
	五块平均值不小于	单块最小值不小于
MU3.5	3.5	2.8

注:1、砌块强度等级和抗压强度的单位为 MPa。

2、试块以 $K_{xx}-1$ 主块为准。

选用方法:

选用部分节点详图时标注为:

L92J121 节点号
页次

选用整页图纸时标注为:

L92J121 页次

五、构造措施

- 1、墙体的允许高厚比 $[\beta]$ 值按《砌体结构设计规范》(GBJ3—88)中第 51.1 条验算。
- 2、墙体与钢筋混凝土柱的联结构造以及节点处理按具体情况选用。
- 3、水泥炉渣空心砌块的芯柱混凝土采用 C15,特殊情况另详构造图。
- 4、墙体下列部位应用 C15 混凝土填实,或者采用砌块 $K_{xx}-8$ 实心块。
 - a: 底层室内地坪以上一皮砌块及地坪以下砌体。
 - b: 各楼层第一皮砌块。
 - c: 门窗过梁处。
 - d: 挑梁挑出的填充砌体在拐角和丁角处。
- 5、用于外墙的内墙皮,需要采暖的房屋宜采取保温措施。
- 6、在底层和顶层的窗台水平灰缝中,沿房屋四周外墙宜设 2 $\Phi 4$ 通长钢筋,当遇有门洞时,则端头钢筋弯成 L 形,锚入门框芯柱中。

六、施工注意事项

- 1、砌块的养护龄期不足 28 天时,不得上墙砌筑。
- 2、砌筑砌块时,不应浇水润湿砌块,但在炎热的夏季可提前一天润湿砌块,雨天施工应有防雨措施,对已砌好的砌体被雨淋后,应拆除最上一皮砌块后,方可进行下部砌筑。
- 3、砌体砌筑时,要尽量使用主规格砌块, $K_{xx}-1,2$ 砌块上下层搭接 $\geq 100\text{mm}$,孔肋尽量相对。

- 4、砌筑墙体,灰缝砂浆必须饱满,严禁用水冲浆浇灌灰缝,缝的厚(宽)为 8—12mm 砌体砂浆硬化后,不得再移动砌块,应清除硬化的砂浆,重新铺砂浆砌筑砌块。
- 5、框架填充墙,当墙体砌至最后一皮时,梁底与砌块之间的灰缝应控制在 15mm 左右,应在每个砌块的两侧用木楔打紧,用砂浆填实也可采用最后一皮实心块 $K_{xx}-8$ 斜砌的方法。
- 6、对设计中的洞口,穿墙管道,和预埋件等,应在穿墙时预留,施工中的墙体不宜搁置穿墙脚手架,如必须设置施工中的脚手架孔洞时,必须在满足砌体强度要求的情况下,砌成面向墙面的水平孔,脚手架拆除后,用 C15 混凝土填实。

七、其它

- 1、砌块应符合国家标准《混凝土小型空心砌块》(GB8239—87)质量标准。
- 2、砌块类型,规格及其它参数详见砌块类型表。
- 3、外墙使用 24a 系列,热阻值为 $R = 0.516\text{m}^2 \cdot \text{K/W}$ 若不能满足采暖的房屋宜采取保温措施。
- 4、煤渣质量:
 - a: 煤渣烧失量: $< 15\%$
 - b: 不得含有杂草、树根、果皮、泥土等杂物。
 - c: 有害射线不得超过国家标准。
- 5、本图集未进行隔声保温验算。

砌块类型表

砌块类型表

砌块 型号	外型尺寸 L×B×H(mm)	壁厚 (mm)	空心 率(%)	块重 (N)	墙自重 (KN/m ²)	块数 /m ³	块数 /m ³	备 注	砌块 型号	外型尺寸 L×B×H(mm)	壁厚 (mm)	空心 率(%)	块重 (N)	墙自重 (KN/m ²)	块数 /m ³	块数 /m ³	备 注
K24-1	390×240×190	30	45.7	160.50	2.17	56.23	13.50	主中块	K19-1	390×190×190	30	49.4	118.68	1.60	71.03	13.50	主中块
K24-2	390×240×190	30	45.7	162.33	2.19	56.23	13.50	主边块	K19-2	390×190×190	30	50.0	118.47	1.60	71.03	13.50	主边块
K24-2	390×240×190	30	45.7	162.33	2.19	56.23	13.50	主中块	K19-3	290×190×190	30	43.5	99.20	1.80	95.52	18.15	辅助块
K24-3	290×240×190	30	40.4	131.98	2.39	76.52	18.15	辅助块	K19-4	290×190×190	30	51.4	85.33	1.55	95.52	18.15	可变块
K24-4	290×240×190	30	47.5	116.25	2.11	76.52	18.15	可变块	K19-5	190×190×190	30	43.4	64.64	1.79	145.79	27.70	辅助块
K24-5	190×240×190	30	40.2	86.06	2.38	76.52	27.70	辅助块	K19-6	190×190×190	30	55.7	51.66	1.43	145.79	27.70	U型块
K24-6	90×240×190	30	20.1	55.74	3.26	115.42	58.48	辅助块	K19-7	90×190×190	30	25.0	41.42	2.42	307.79	58.48	辅助块
K24-1	390×240×190	30	55.0	133.01	1.80	243.66	13.50	主中块	K19-8	90×190×190	30	0	55.23	3.23	307.79	58.48	实心块
K24-2	390×240×190	30	55.5	133.04	1.80	56.23	13.50	主边块	K12-1	390×120×190	30	36.0	95.41	1.29	112.46	13.50	主中块
K24-3	290×240×190	30	48.7	113.60	2.00	56.23	18.15	辅助块	K12-2	390×120×190	30	36.5	95.32	1.29	112.46	13.50	主边块
K24-4	290×240×190	30	57.1	95.00	1.76	75.62	18.15	可变块	K12-3	290×120×190	30	31.8	75.95	1.38	151.24	18.15	辅助块
K24-5	190×240×190	30	48.4	74.26	2.06	115.42	27.70	辅助块	K12-4	290×120×190	30	37.5	69.60	1.26	151.24	18.15	可变块
K24-6	190×240×190	30	62.3	55.53	1.54	115.42	27.70	辅助块	K12-5	190×120×190	30	32.7	49.56	1.37	230.84	27.70	辅助块
K24-7	90×240×190	30	24.6	52.61	3.08	243.66	58.48	辅助块	K12-6	190×120×190	30	39.9	44.26	1.23	230.84	27.70	U型块
K24-8	115×240×190	30	0	42.23	1.93	190.69	45.77	实心块	K12-7	90×120×190	30	15.3	29.55	1.73	487.33	58.48	辅助块

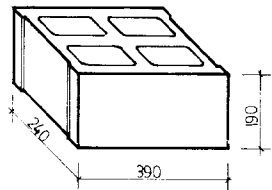
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砌块类型表

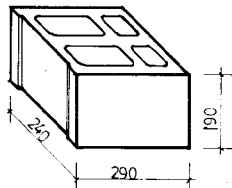
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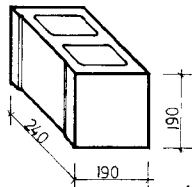
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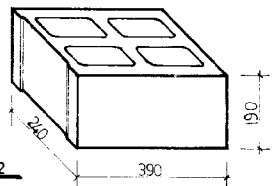
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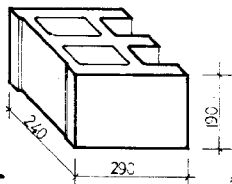
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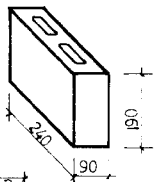
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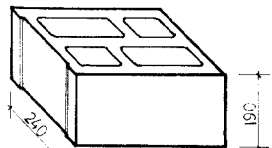
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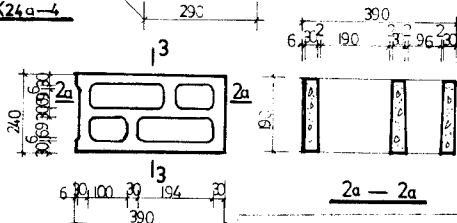
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K24a-6



K24a-2a



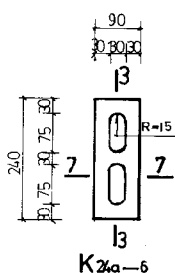
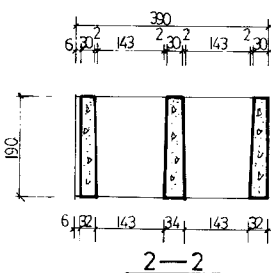
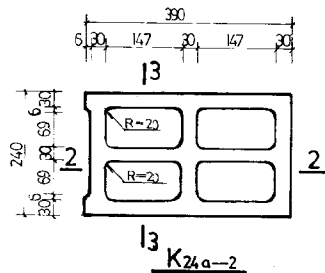
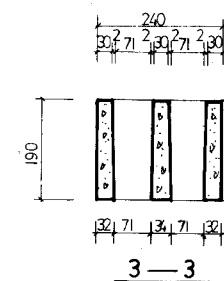
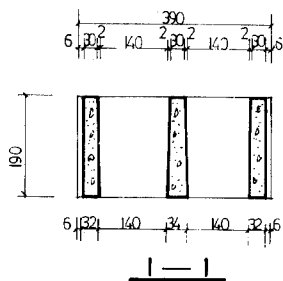
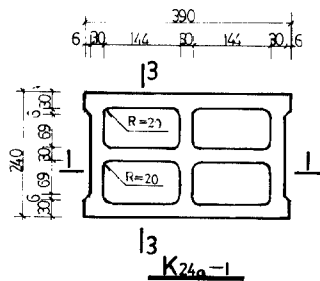
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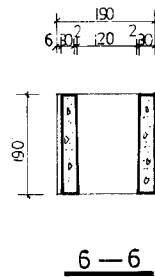
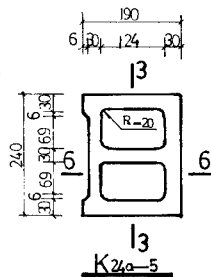
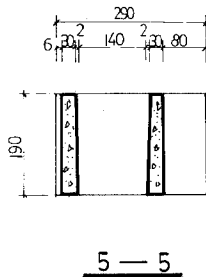
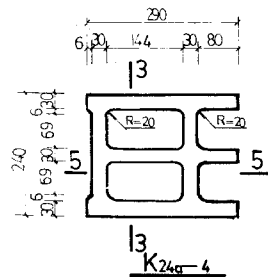
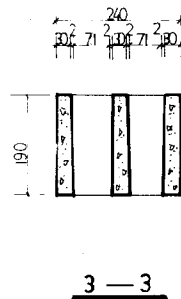
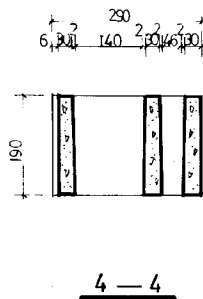
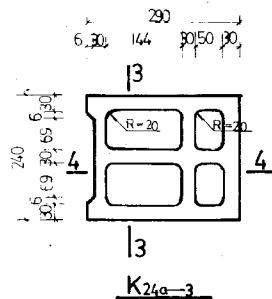
K24a-1 — K24a-6 型砌块

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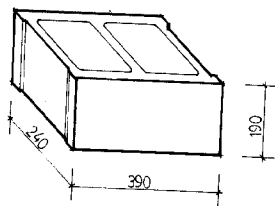




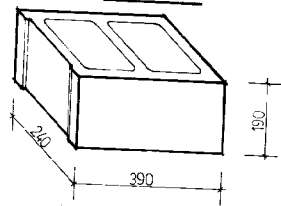
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K24a-3 K24a-4 K24a-5
型砌块剖面

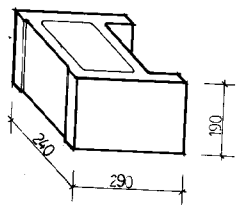
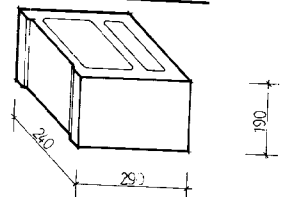
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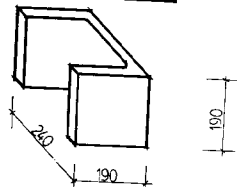
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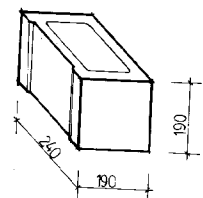
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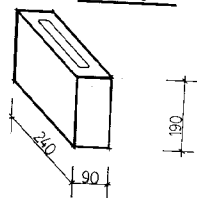
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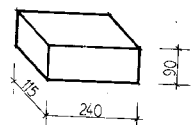
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K24-5



K24-7



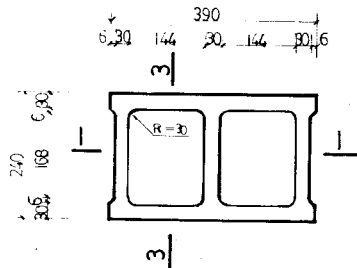
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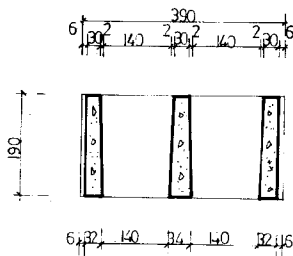
K24-1--K24-8型砌块

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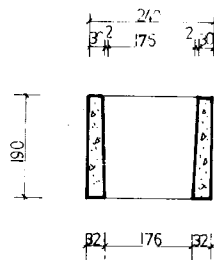
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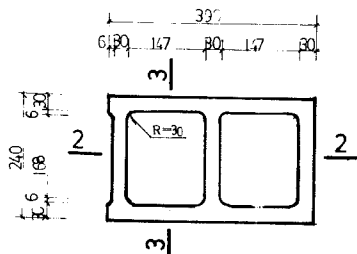
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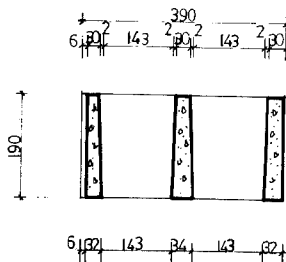
1—1



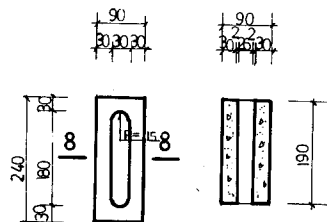
3—3



3—3



2—2



K24-7

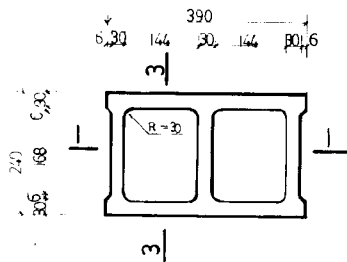
8—8

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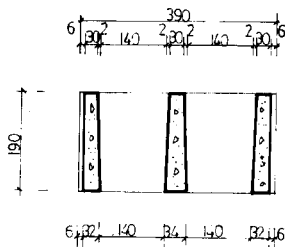
K24-1 K24-2 K24-7
型砌块剖面

图号 L92J21

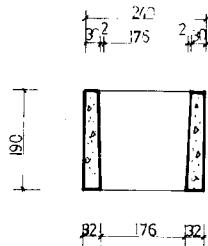
页 9



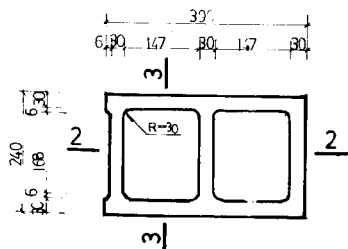
K24-1



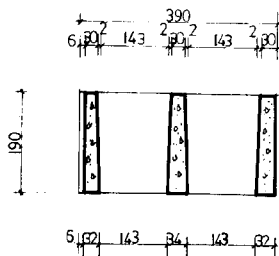
1-1



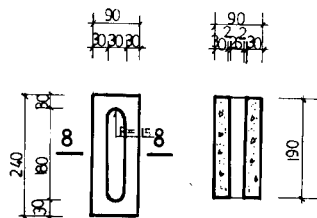
3-3



K24-2



2-2



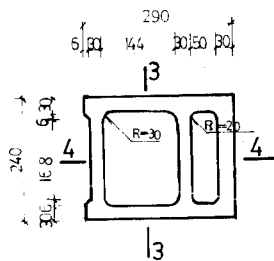
K24-7

8-8

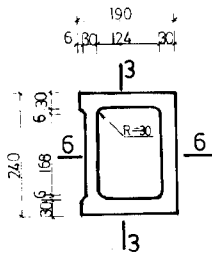
K24-1 K24-2 K24-7
型砌块剖面

图号 L92J121

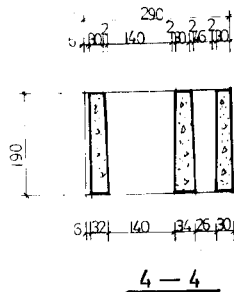
页 9



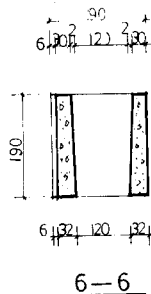
K24-3



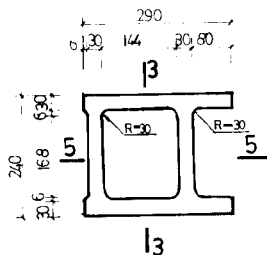
K24-5



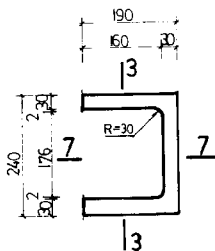
4-4



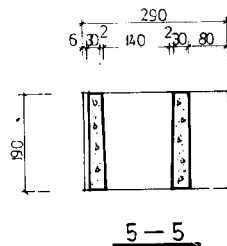
6-6



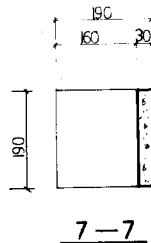
K24-4



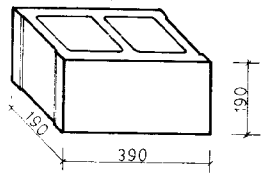
K24-6



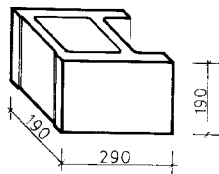
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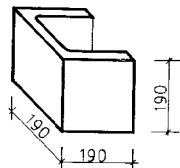
7-7



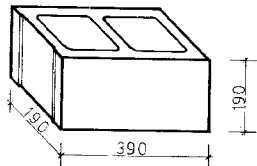
K19-1



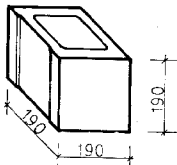
K19-4



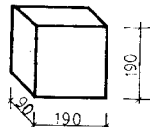
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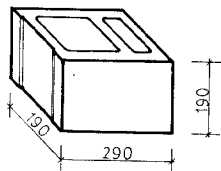
K19-2



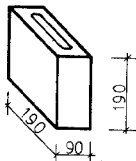
K19-5



K19-8



K19-3

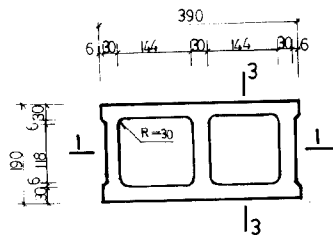


K19-7

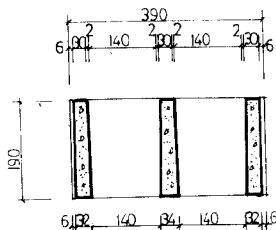
K19-1--K19-8型砌块

图样号 L92J121

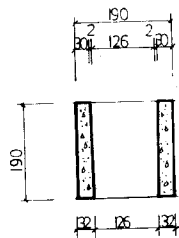
页 11



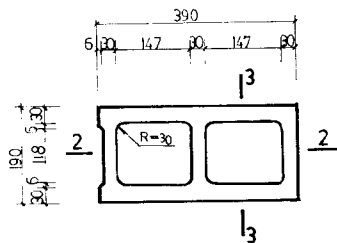
K19-1



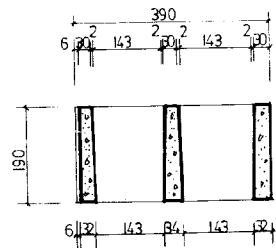
1-1



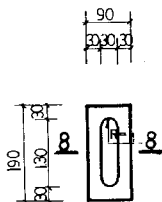
3-3



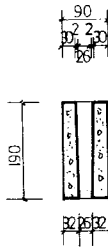
K19-2



2-2



K19-7

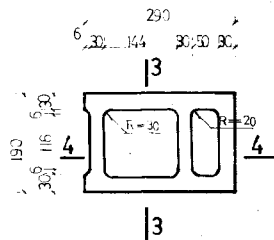


8-8

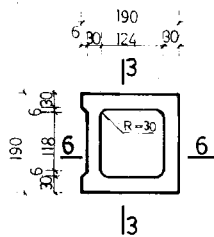
K19-1 K19-2 K19-7
型砌块剖面

图样号 L92J121

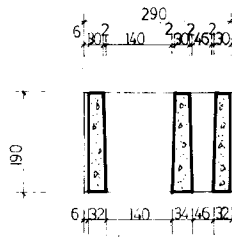
页 12



K19-3



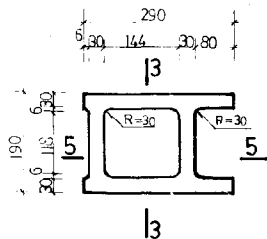
K19-5



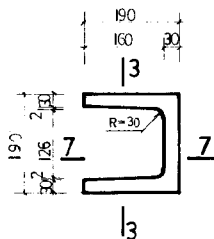
4-4



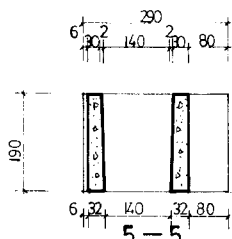
6-6



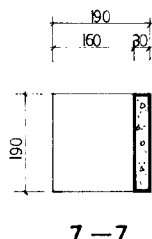
K19-4



K19-6



5-5

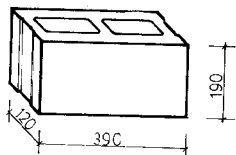


7-7

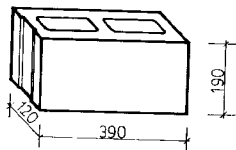
K19-3--K19-6型砌块剖面

图样号 L92J121

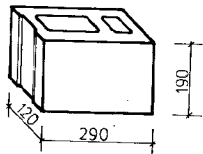
13



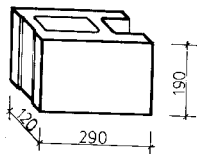
K12-1



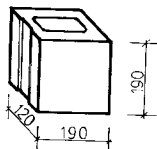
K12-2



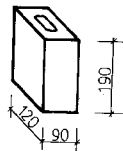
K12-3



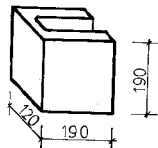
K12-4



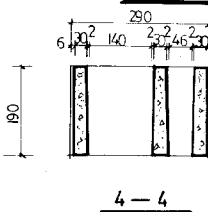
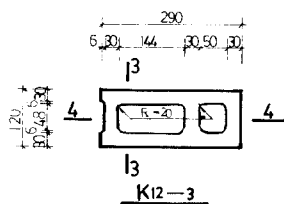
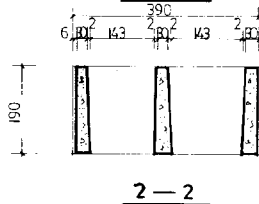
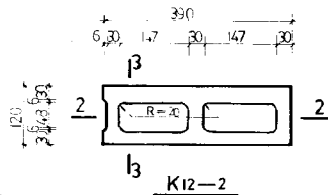
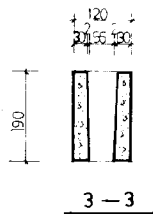
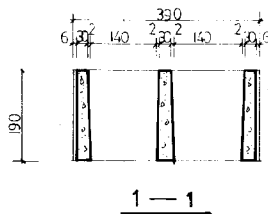
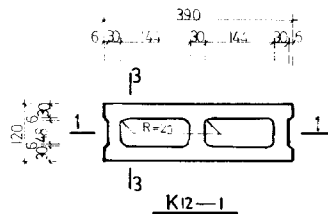
K12-5



K12-7



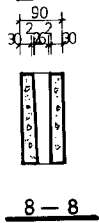
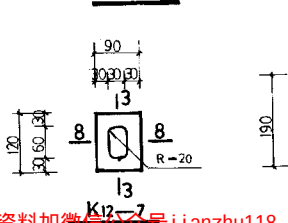
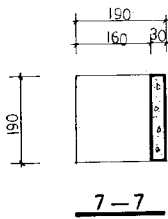
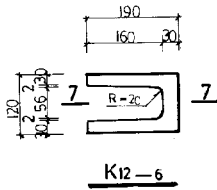
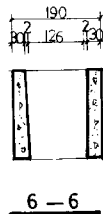
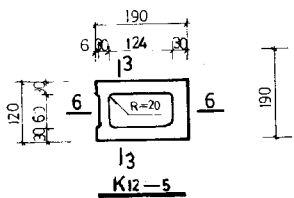
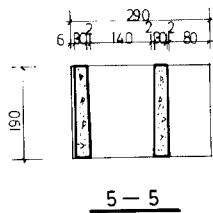
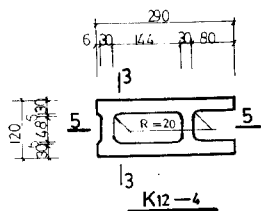
K12-6



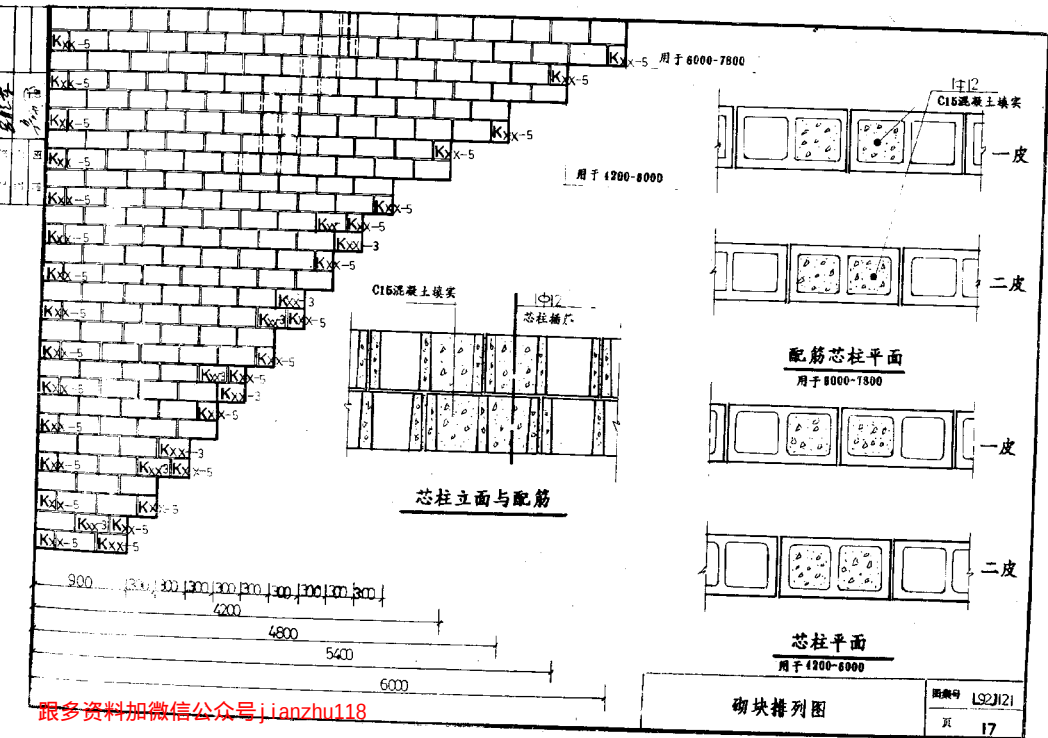
K12-1--K12-3型砌块剖面

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K12-4--K12-7型砌块剖面



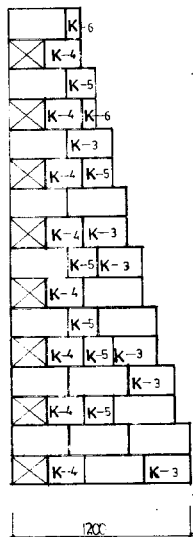
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砌块排列图

图例号 L92J121

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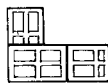
500 100 100 100 100
100 100 100



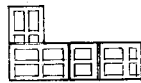
砌块L形墙体节点砌法



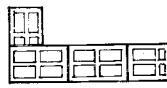
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700



900



1100



500



700



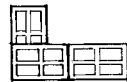
900



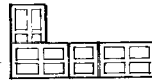
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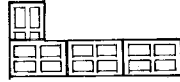
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800



1000



1200



600



800



1000

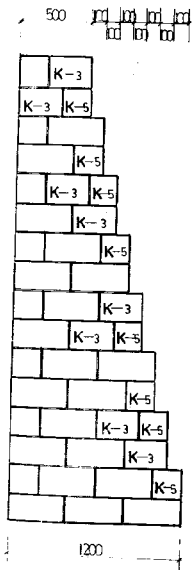


1200

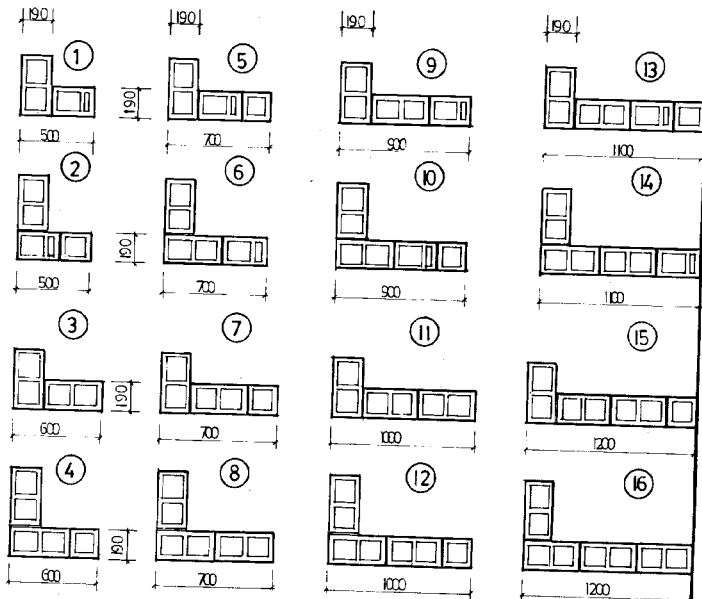
注：凡未标注的砌块均为K24a-1（中间块）
K24a-2（边沿块）

K24a砌块L形墙体节点砌法

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砌块L形墙体节点砌法



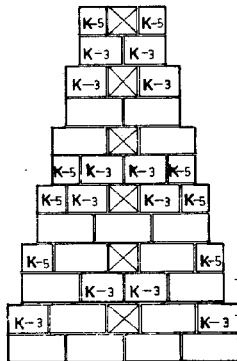
注: 凡未标注的砌块均为K19-1 (中间块)
K19-2 (边沿块)

K19砌块L形墙体节点砌法

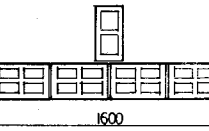
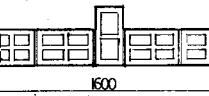
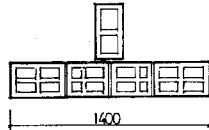
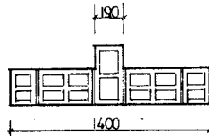
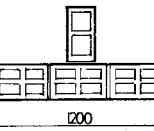
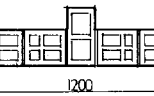
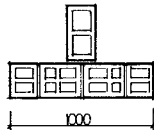
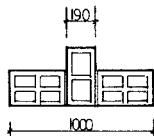
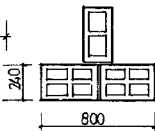
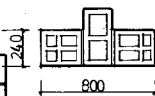
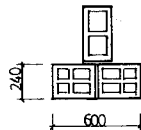
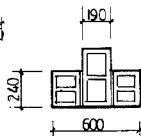
图样号 192J121

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100 100 500 100 100



K24a 砌块T形墙体节点砌法
K19

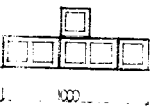
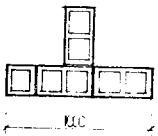
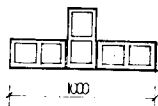
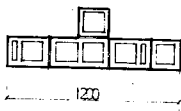
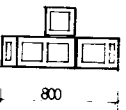
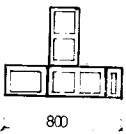
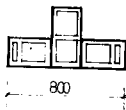
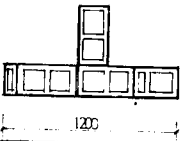
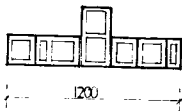
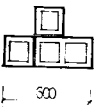
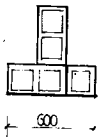
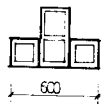
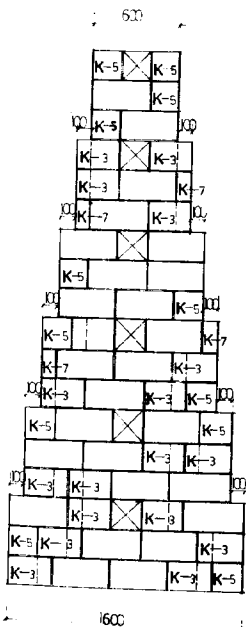


注: 1. T形墙体砌块K19-1
2. 凡未说明的砌块为K24a-1 (中间块)
K24a-2 (边块)

K24a与K19砌块T形墙体节点砌法

图样号 L92J121
页 20

图例



说明：1. 本说明块型为K19-1.2
2. 为K19-2砌块
3. 三方连接处设钢筋网片
4. 50mm

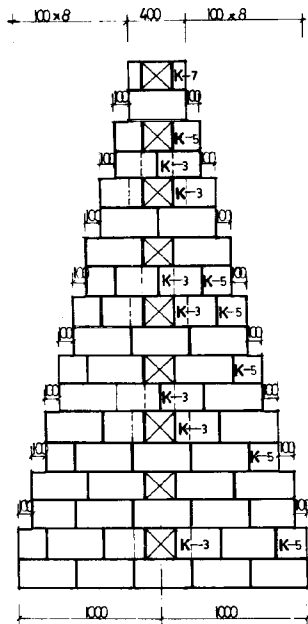
K19砌块T形墙体节点砌法(对孔)

图集号 L92J121

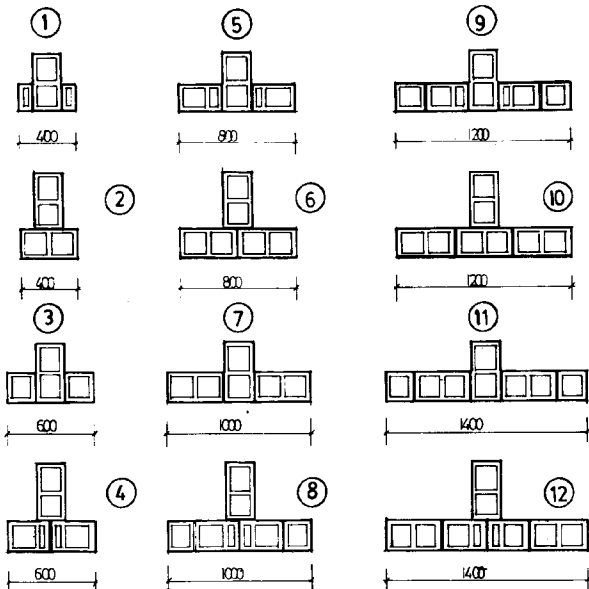
21

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(对孔)



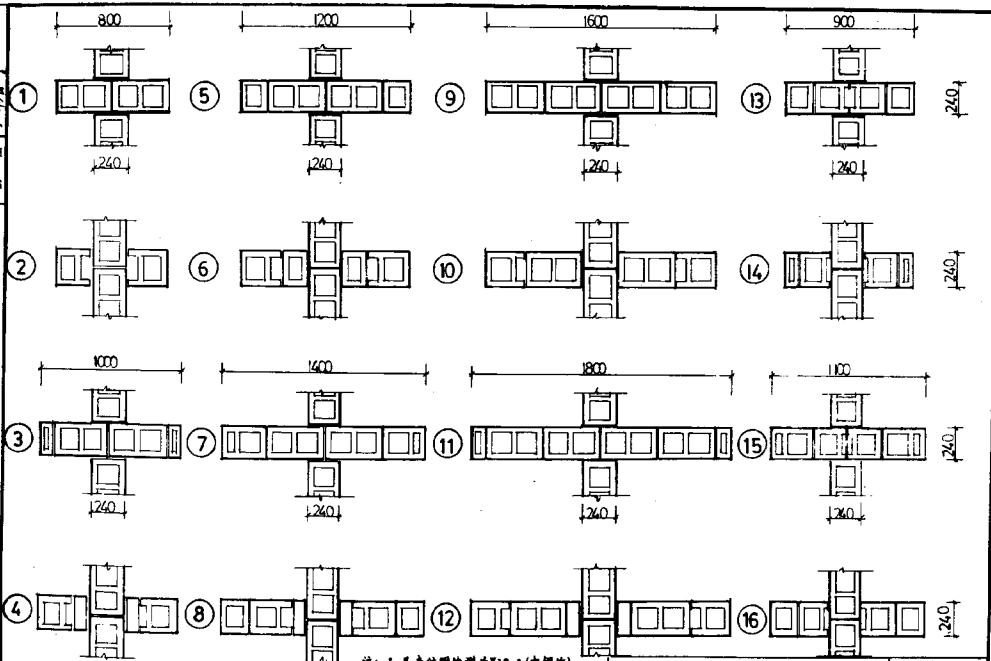
K19砌块T形墙体砌块排列



注: 1 凡未注明块型为K19-1(中间块)
K19-2(边沿块)
2 T形墙砌块K19-1

K19砌块T形墙体砌块排列 (不对)

图号: L92J121
页: 22

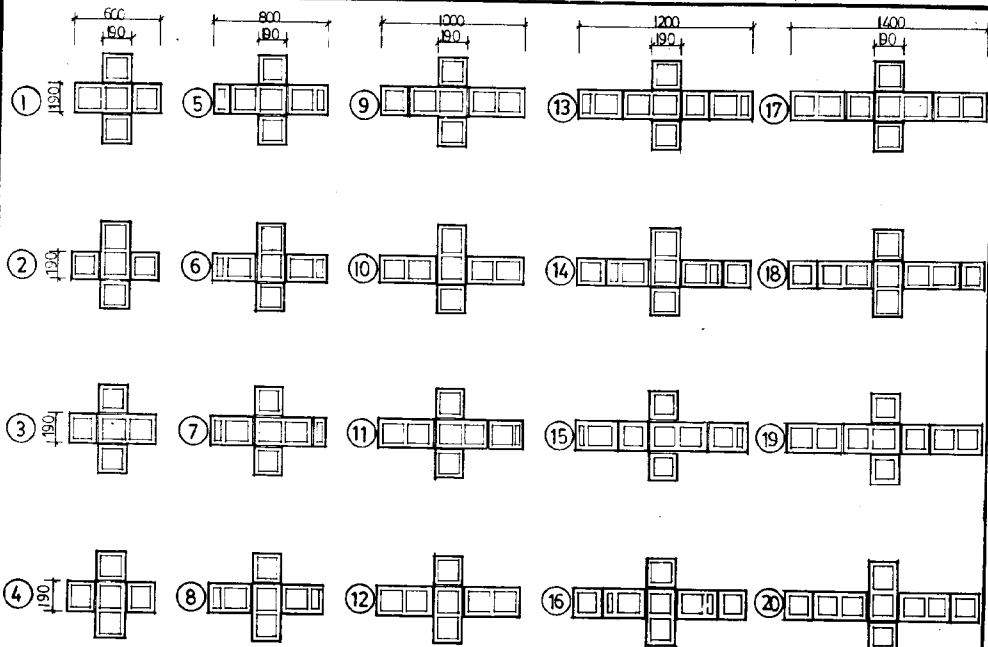


注: 1 凡未注明块型为K18-1(中间块)
K18-2(边沿块)
2 十字墙砌块为K18-X

K24砌块+形墙体节点砌法

图样号 L92J121
页 23

图名	图号
砌块	190
节点	24



注：1 凡未说明块型为K24-1（中间块）

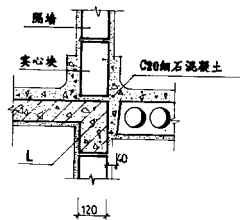
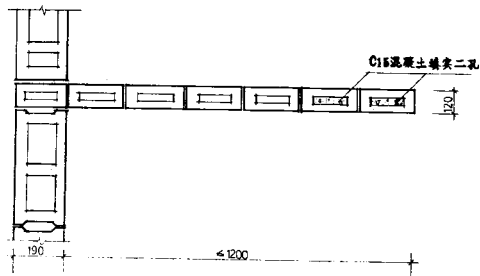
K24-2（边器块）

2 十字形端砌块为K24-X

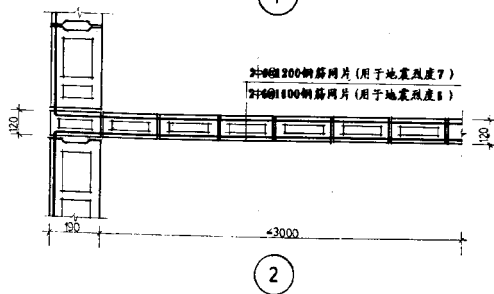
K19砌块+形墙体节点砌法

图编号 192J121

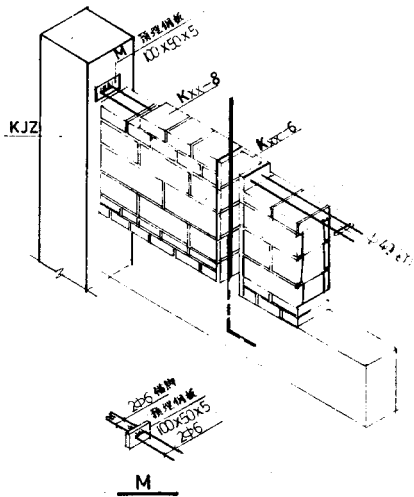
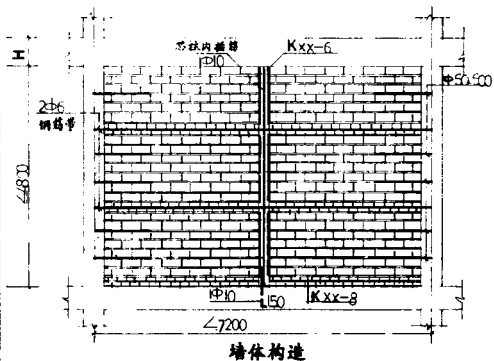
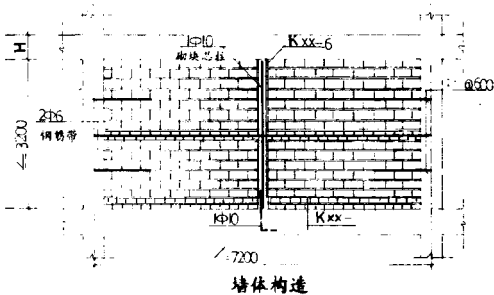
页 24



卫生间地面与墙面防水处理



2018年
4月18日

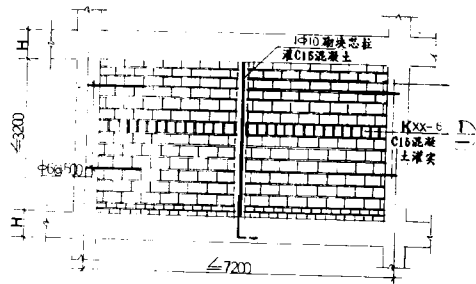


注：该墙体构造用于地震烈度Ⅷ区

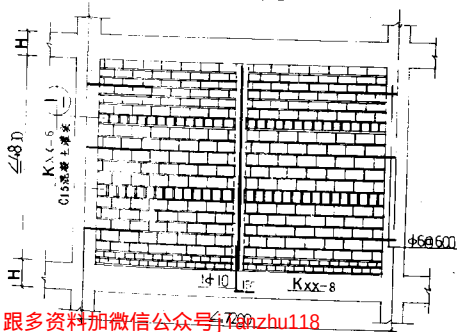
墙体构造(一)

图号 L92J121

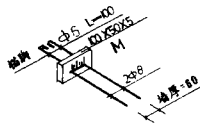
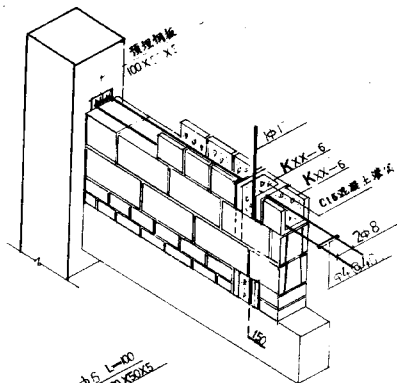
页 26



墙体构造



墙体构造



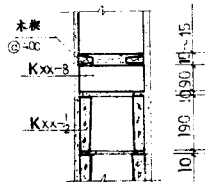
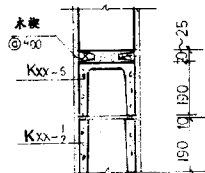
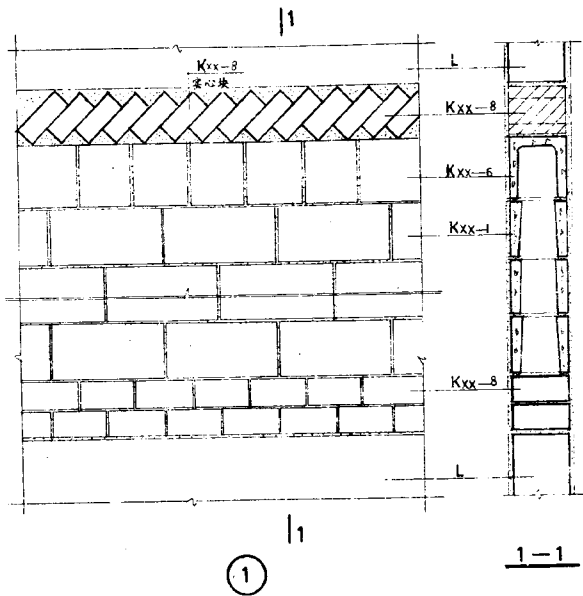
注：该墙体构造用于地震烈度7-8区

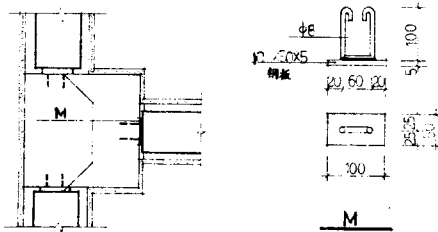
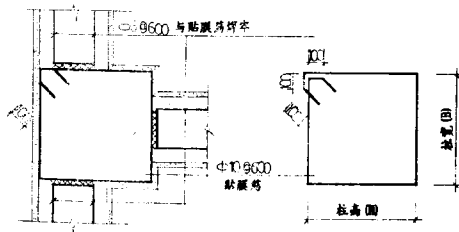
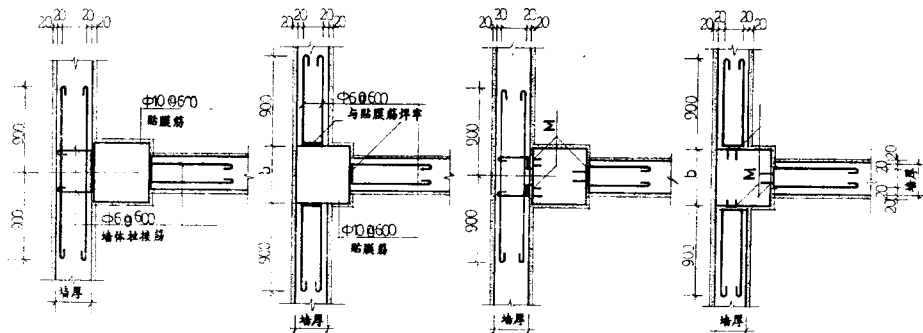
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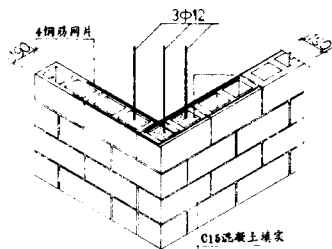
墙体构造(二)

图例号 192J121

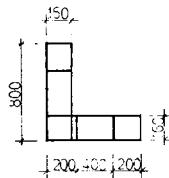
页 27



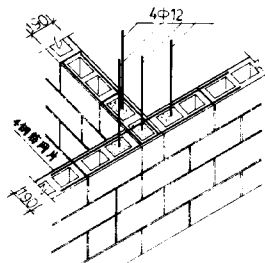




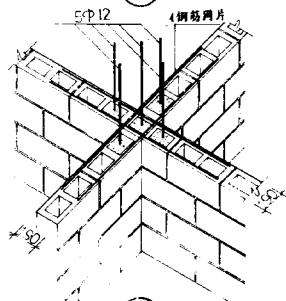
① L形芯柱构造



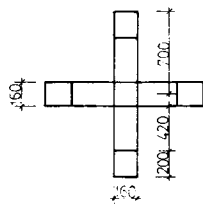
④



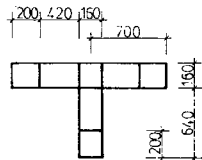
② T形芯柱构造



③ 十形芯柱构造

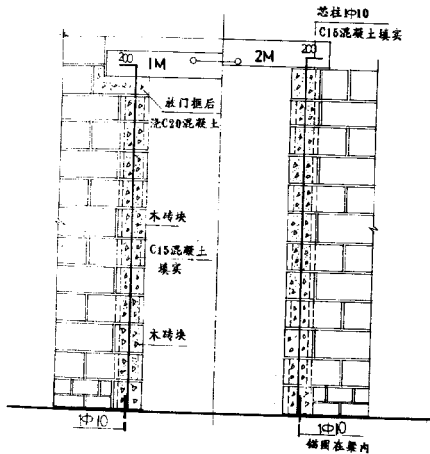


⑥

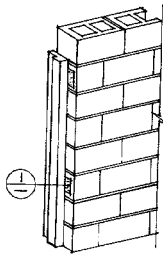


⑤

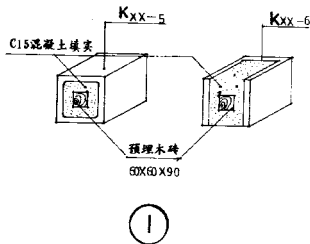
1. 门框
 2. 门扇
 3. 门轴
 4. 门铰
 5. 门扣
 6. 门栓
 7. 门锁
 8. 门把手
 9. 门拉手
 10. 门拉手

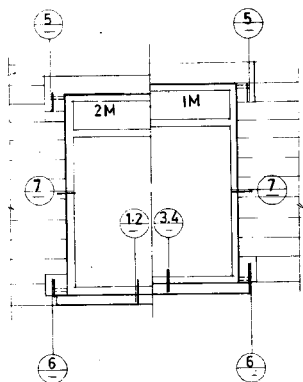


木门框墙体砌块构造

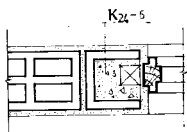


木门安装节点

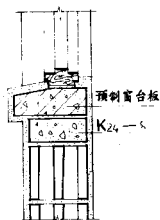




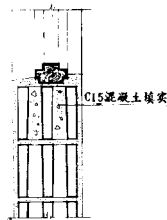
木窗框安装墙体砌块构造



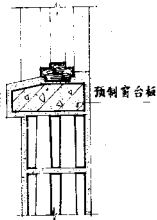
7



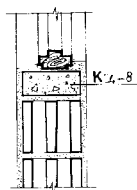
1 2M



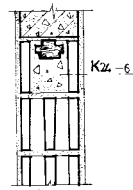
2 2M



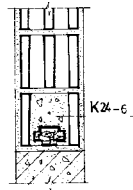
3 1M



4



5



6

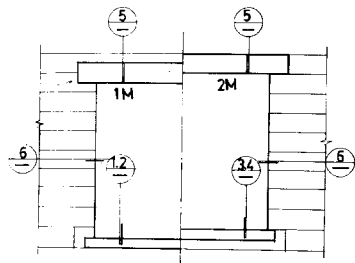
注：图中未注明砌块为K24a-1.2

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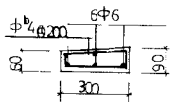
木窗框安装墙体砌块构造

图号 192J21

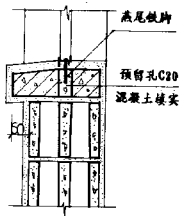
页 32



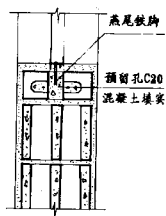
钢窗框安装节点



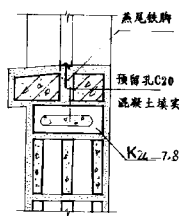
窗台板配筋



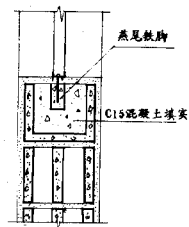
1



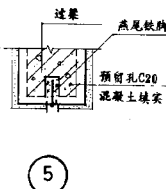
2



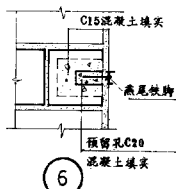
3



4



5

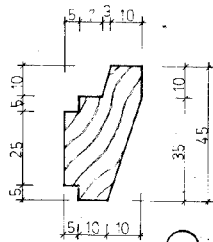


6

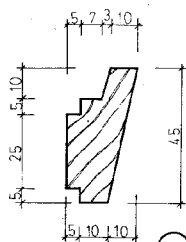
钢窗框安装墙体砌块构造

图编号 L92J121

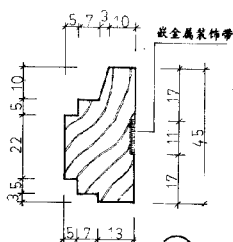
33



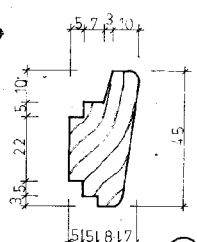
①



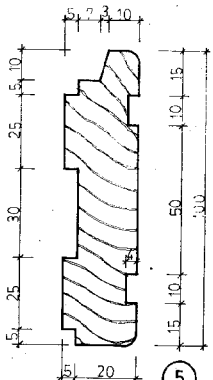
②



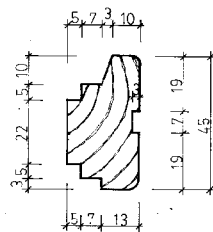
③



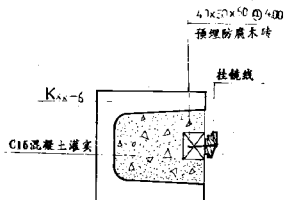
④



⑤

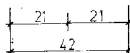
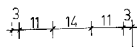


⑥

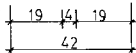
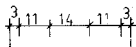


挂镜线与砌块墙连接

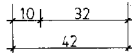
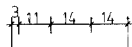
木挂镜线详图



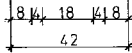
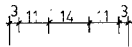
①



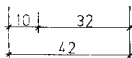
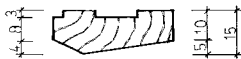
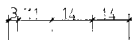
②



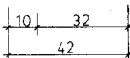
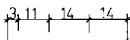
③



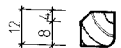
④



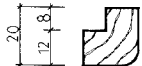
⑤



⑥



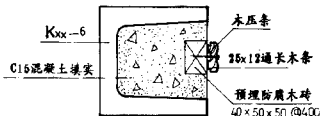
⑦



⑧



⑨



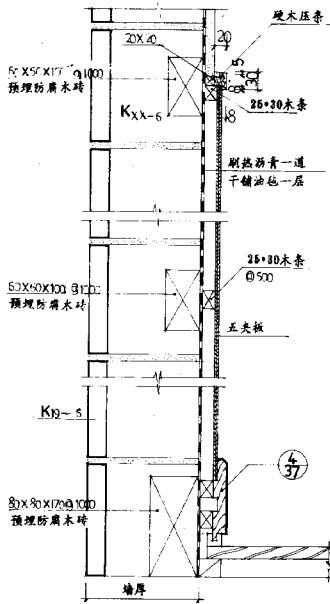
木压条与砌块墙连接

木压条详图

图样号 L92.J121

页 35

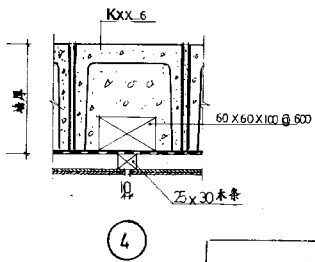
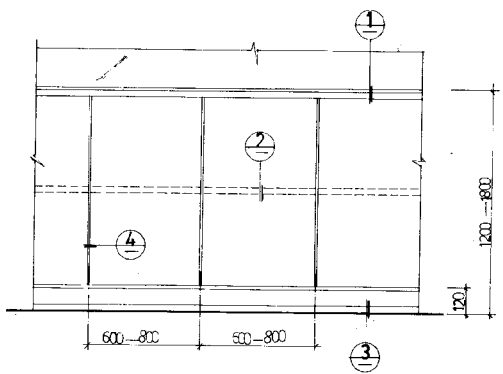
图号	比例	日期	姓名



1

2

3



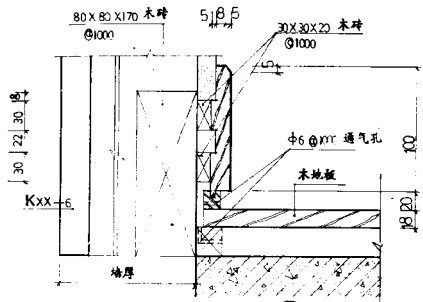
4

注：木墙裙高度及材料均由设计确定

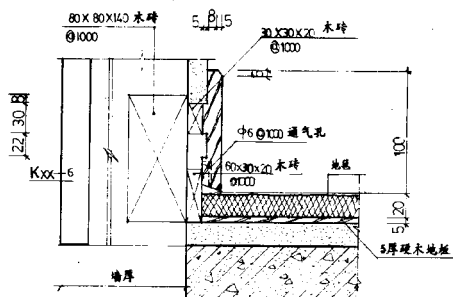
木墙裙详图

木墙裙详图

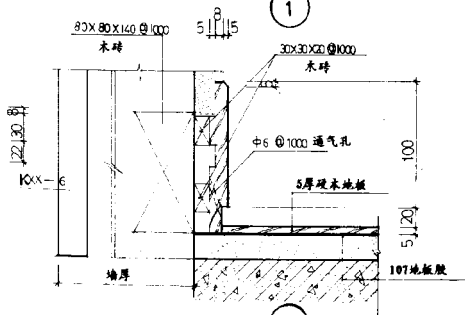
图号	L92J121
页	36



①



②



③

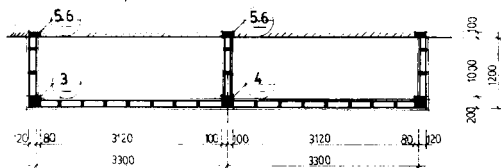
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木踢脚详图

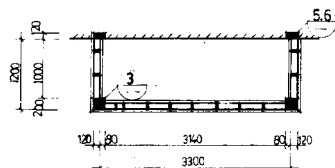
图例号 L92J121

页 37

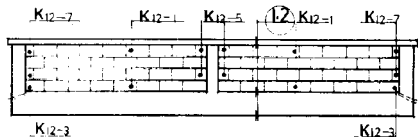
工程名称	工程名称
设计单位	设计单位
施工单位	施工单位
监理单位	监理单位
建设单位	建设单位



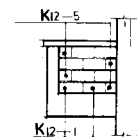
阳台平面 (一)



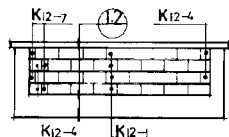
阳台平面 (二)



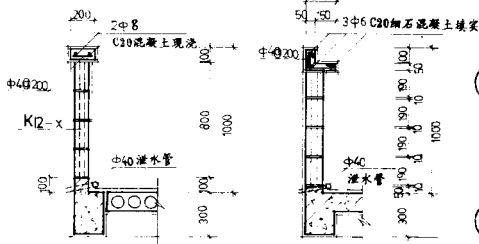
阳台立面 (一)



阳台侧面



阳台立面 (二)

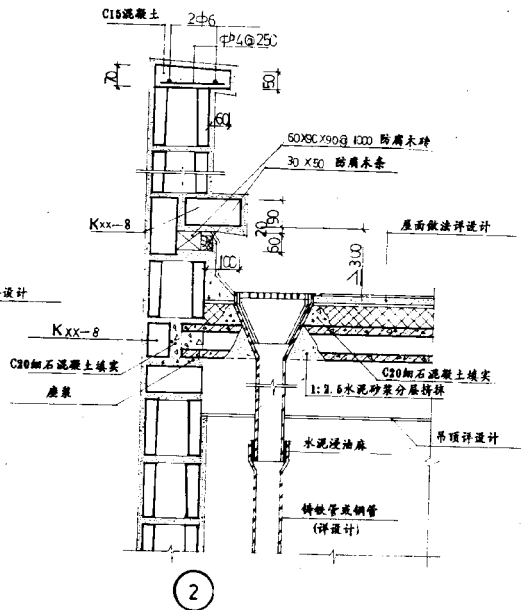
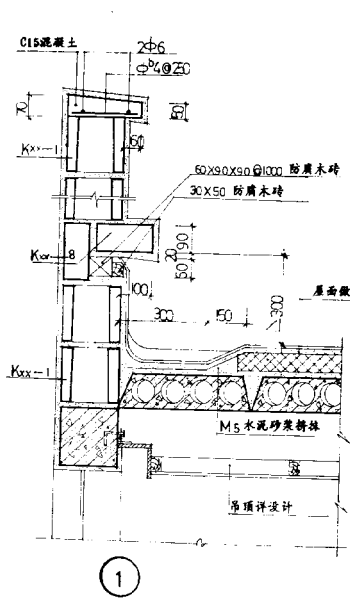


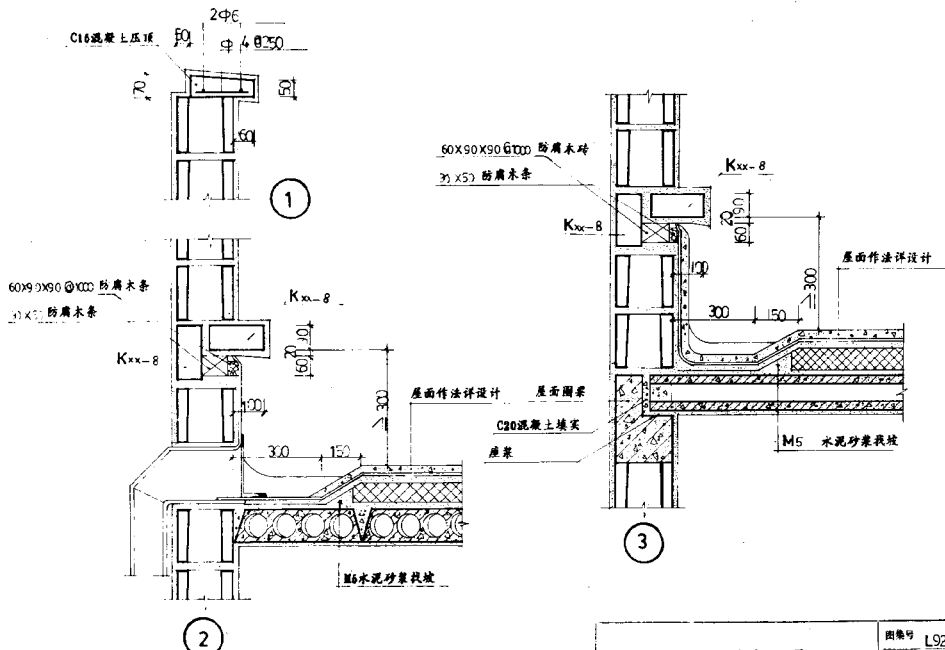
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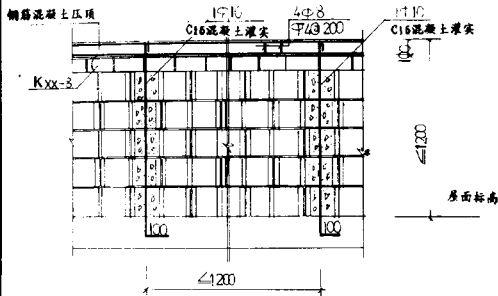
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4

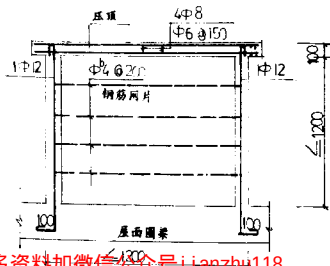
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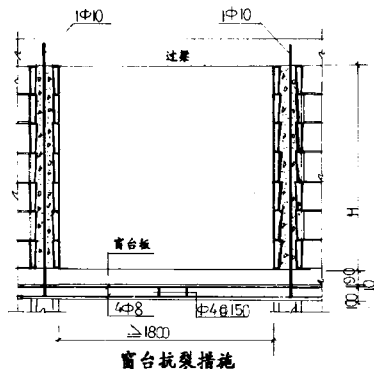




芯柱加固女儿墙



芯柱加固屋面烟囱



窗台抗裂措施

注：1 芯柱加固烟囱，女儿墙采用C16混凝土浇灌填充，钢筋为I级钢。

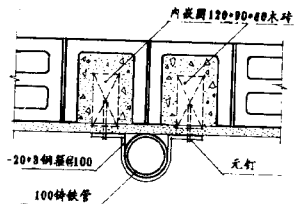
2 压顶与窗下通梁采用C20混凝土I级钢浇灌混凝土

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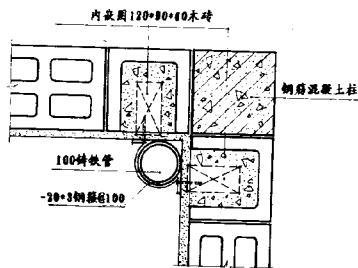
墙体防裂及烟囱女儿墙加固

图章号 1921121

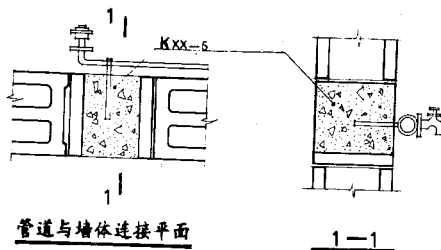
页 41



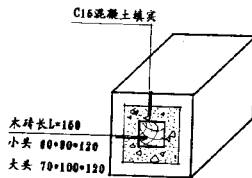
外管道与墙体连接平面



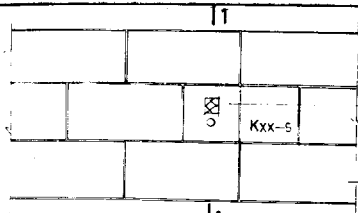
管道拐角处砌块连接平面



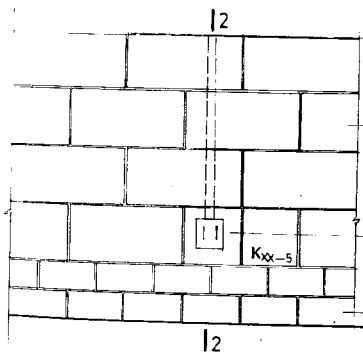
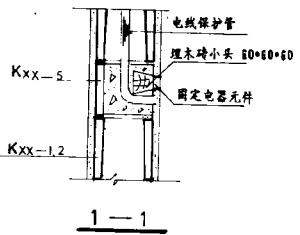
管道与墙体连接平面



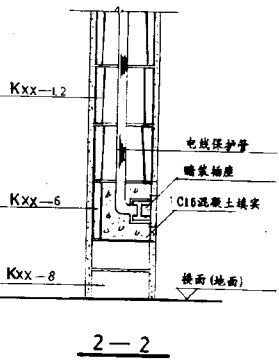
木砖砌块



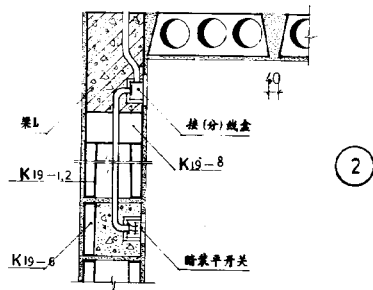
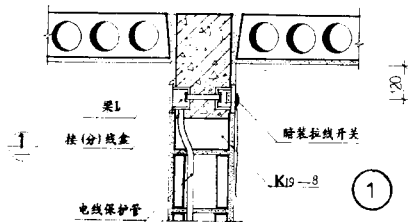
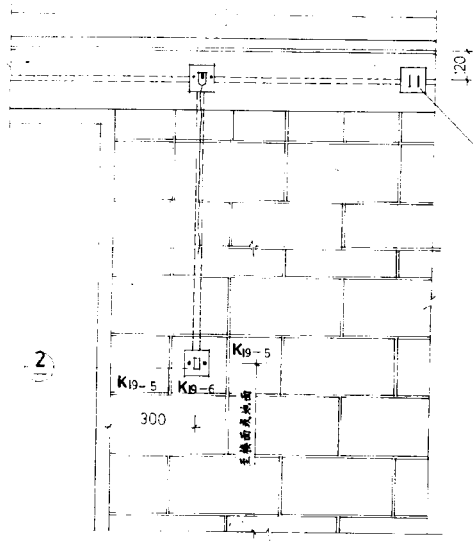
1
预埋木砖安装固定电器元件



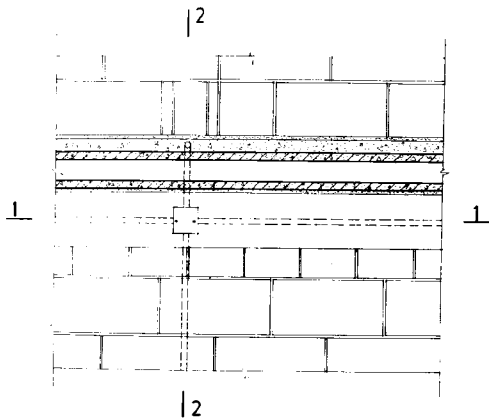
2
墙内暗装插座安装及砌块排块



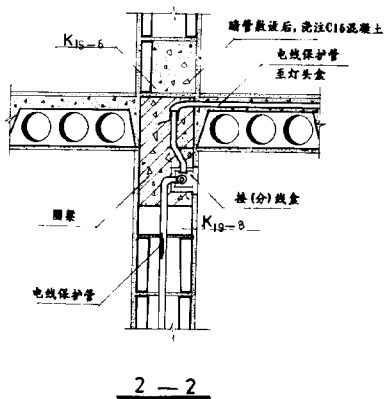
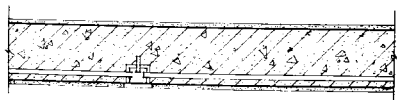
- 注: 1 安装插座和预埋木砖距地坪和楼面距离由设计定
2 电线保护管由设计定
3 凡图中未标注砌块为Kxx-1.2



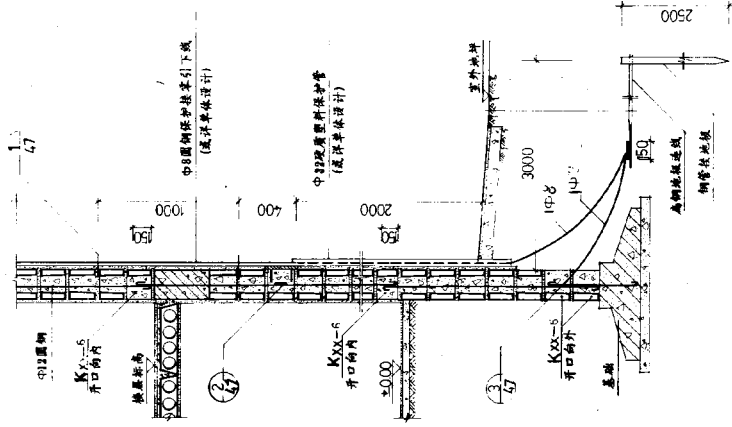
暗装平开关, 拉线开关及砌块排列



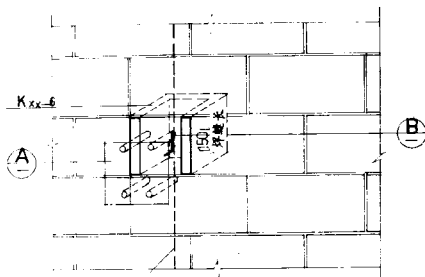
砌块墙线路暗敷做法



注: 图中未标注的砌块型号均为K10-1

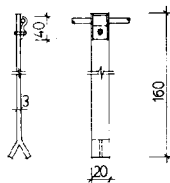


利用芯柱立筋安装防雷设施做法简图



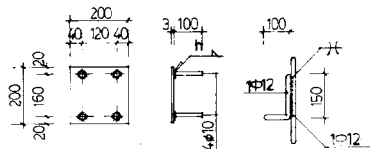
灌芯砌块内 $\phi 12$ 钢筋

① 防雷引下线测试点做法



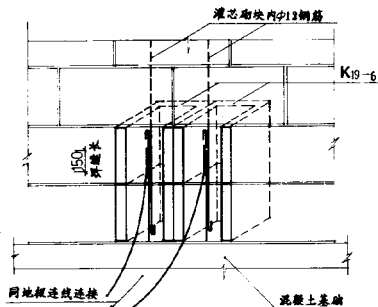
② 支持卡子做法

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A 钢板盖口

B 测试接头

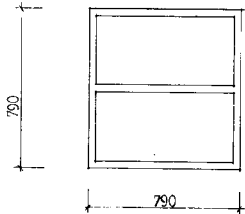


③ 防雷引下线引出建筑物做法

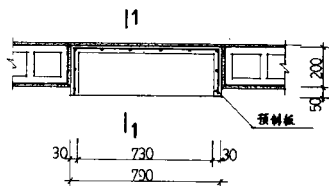
芯柱主筋安装防雷设施做法(二)

图例号 L92J121

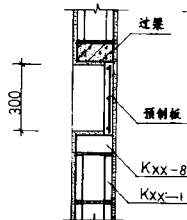
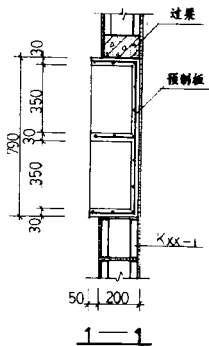
页 47



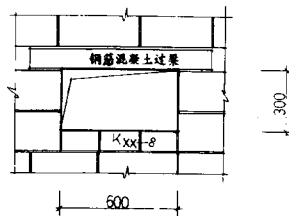
壁盒立面



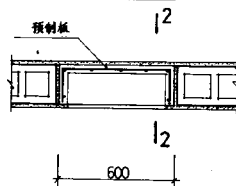
壁盒平面



2—2

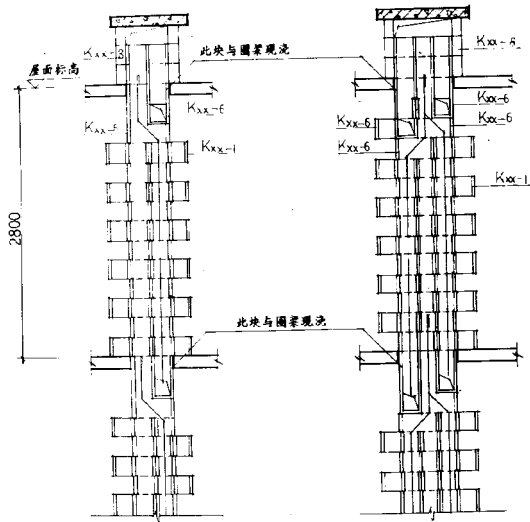


电表箱立面



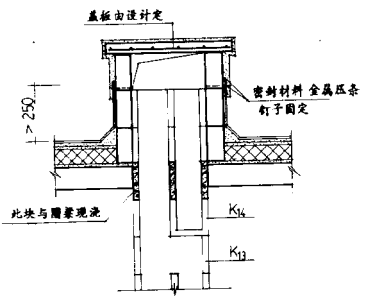
电表箱平面

壁盒、电表箱砌块构造

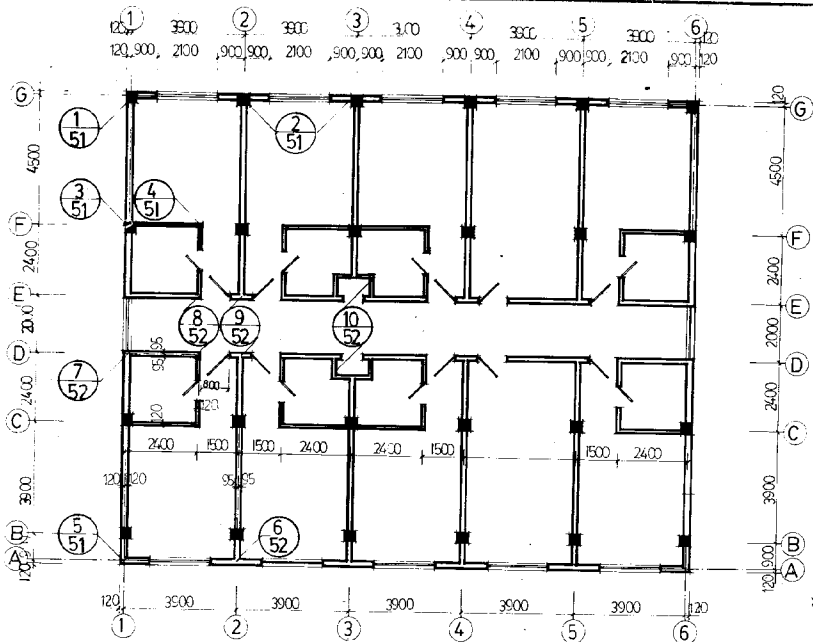


单面使用烟风道竖向布置

双面使用烟风道竖向布置

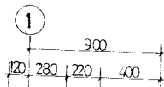


屋面泛水做法



平面节点选用实例

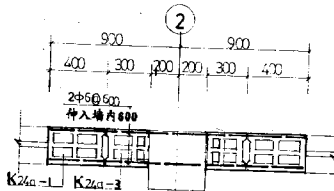
平面节点选用实例



2#5@600
伸入墙内600
K24a-4 K24a-1

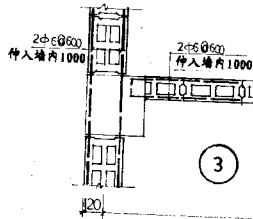
2#5@600
伸入墙内1000

1



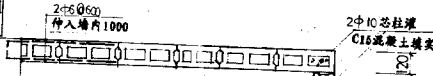
2#5@600
伸入墙内600
K24a-1 K24a-3

2



2#5@600
伸入墙内1000

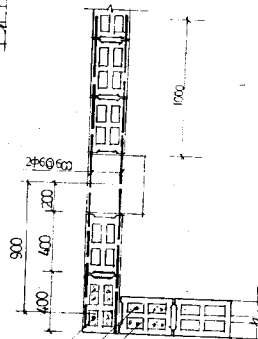
3



2#5@600
伸入墙内1000

4

2#10芯柱灌
C15混凝土填实



3#12芯柱灌
C15混凝土填实

5

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节点 (一)

图号 L92J121

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