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漏花

批准单位	批准文号	主编单位	湖北省建筑设计院
湖北省住房和城乡建设厅			
河南省住房和城乡建设厅			
湖南省住房和城乡建设厅	鄂建[2011]48号	图集号	11ZJ951
广东省住房和城乡建设厅			
广西壮族自治区住房和城乡建设厅		生效日期	2011.8.1
海南省住房和城乡建设厅			

主编单位负责人	高俊普
主编单位技术负责人	何晓伟
技术审定人	张声望
设计负责人	陈志敏 车艳娜

高俊普
何晓伟
张声望
陈志敏
车艳娜

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对	陈	陈	陈
校	计	图	制

说 明

1 适用范围

- 1.1 本图集适用于中南地区的一般民用建筑和工业辅助建筑常用的漏花。
- 1.2 本图集供建筑设计、园林景观设计、装修设计人员使用。

2 设计内容

- 2.1 混凝土预制漏花。
- 2.2 金属漏花。
- 2.3 木制漏花。

3 设计依据

GB50010-2002	《混凝土结构设计规范》
GB50005-2003 (2005年版)	《木结构设计规范》
GB50017-2003	《钢结构设计规范》
GB50210-2001	《建筑装饰工程施工及验收规范》
GBJ2-86	《建筑模数协调统一标准》

4 采用材料

4.1 混凝土预制漏花

- 4.1.1 混凝土漏花的花式规格有: 300×300, 450×450, 300×600, 900×900四种基本尺寸。
- 4.1.2 混凝土预制漏花以1:2水泥砂浆或强度等级为C20细石混凝土预制而成(水泥强度等级不得低于32.5级,下同),用1:2水泥砂浆拼砌、组合、灰缝宽10mm,凹入5mm,接缝处预留Φ20(深20)孔洞插入Φ6钢筋

50mm长,用1:2水泥砂浆填实固定,钢筋骨架见图示,钢筋采用Φ^b4冷拔钢丝或8号镀锌钢丝。

4.1.3 混凝土预制漏花可用白水泥或加色的水泥饰面,也可加各种色调的瓜米石浇制,水磨光滑。

4.1.4 混凝土预制漏花模板必须光滑,尺寸准确,成品表面整洁。

4.2 金属漏花

4.2.1 金属漏花的材料分为管材和板材两种,同时可采用铸铁、钢材、不锈钢、铜、铝合金等材料,这些材料应符合国家有关技术规定,具体选材及面层做法按工程设计。

4.2.2 金属漏花的连接为栓接或焊接,焊接应满焊打平磨光。

4.2.3 金属漏花各构件均应按照材质要求分别进行除锈、防锈、防腐处理,以确保漆膜光亮,避免面层剥落。防锈处理按底漆两道,面漆一道。

4.2.4 金属漏花表面应光滑、平直、无毛刺,安装后不应有歪斜、扭曲、变形等缺陷。

4.3 木制漏花

4.3.1 木制漏花的材料可采用实木、复合木、高密度木质纤维材等材料,这些材料应符合国家有关技术规定,具体选材及面层做法按工程设计。

4.3.2 木制漏花中的实木选用一、二级木材。

4.3.3 木材加工时应进行脱脂、蒸煮处理,其含水率要求应不大于12%。

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4.3.4 木制漏花的连接为榫接、胶接或螺钉固定,视不同构造由工程施工确定。

4.3.5 木制漏花要求木条刨光,外观整齐,连接处一定要紧固,不可松动,并应进行防腐、防蚁、防变形处理。

4.3.6 木制漏花表面可根据不同的材料进行底漆、面漆的处理,或由单项工程设计定。

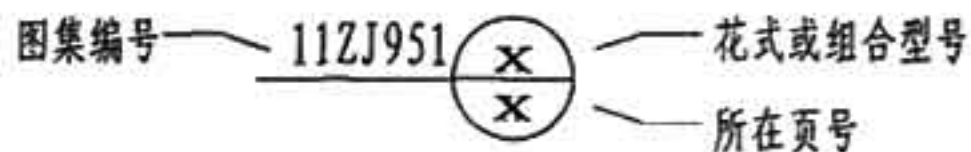
4.3.7 凡木材预埋件应进行防腐处理(严禁采用沥青、煤焦油类防腐处理剂)。

4.3.8 本图集木制漏花仅适应于室内。

5 选用方法

5.1 采用索引编号选择节点大样。

5.2 索引方法:



6 漏花组合

6.1 混凝土预制漏花的组合,其宽度、高度及距地高度均不得大于3m,如超过3m或在7度及以上地震设防区使用,应根据实际情况加设稳固加强措施。

6.2 本图集漏花的各种组合形式均为组合示例,可直接选用,也可根据实际需要自行组合。

6.3 本图集漏花仅作为室内外装饰构件选用,设计人在选用本图集时,应结合设计的所在部位充分考虑各种安全问题,不宜随意套用。

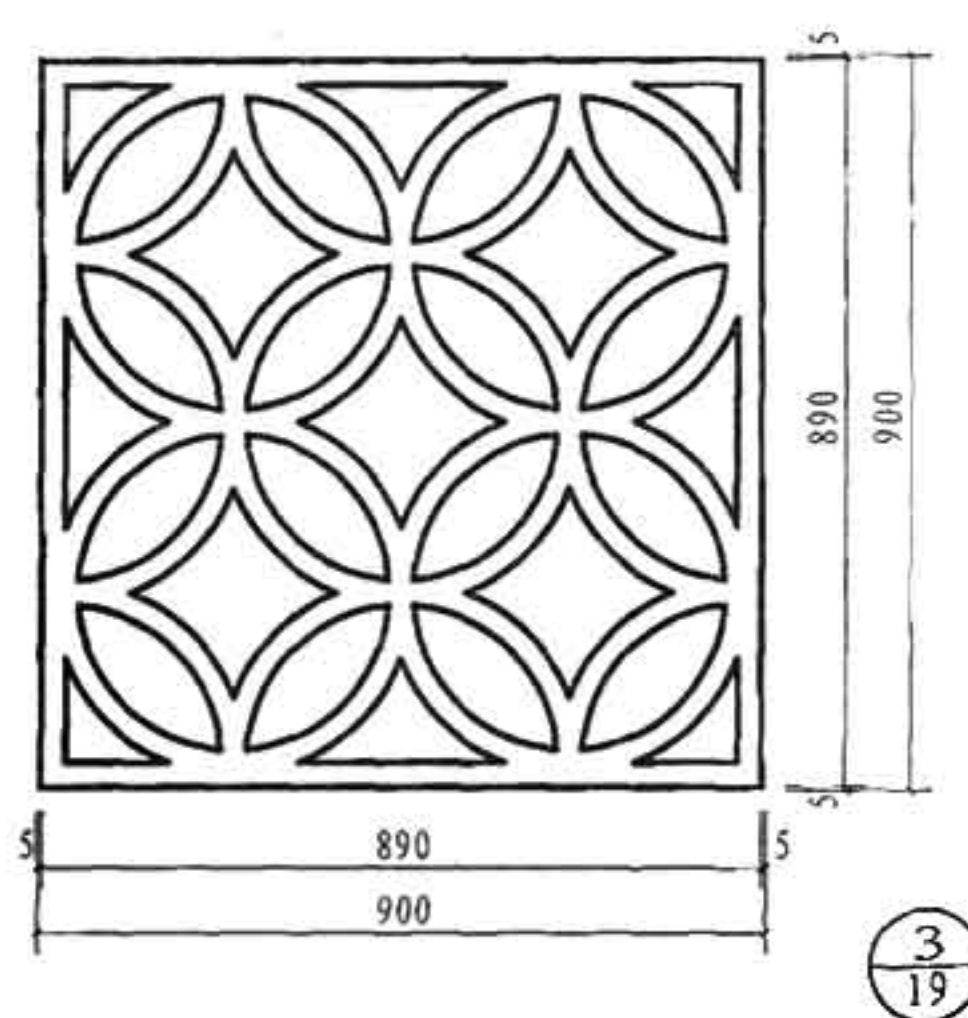
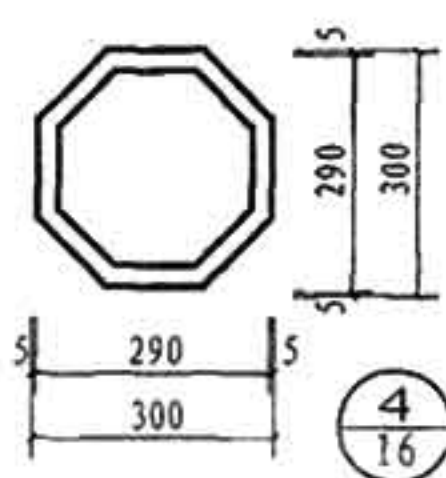
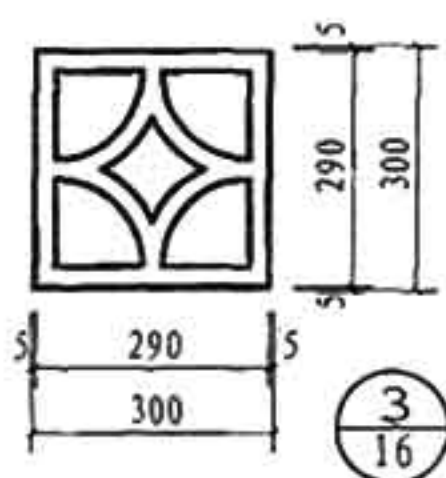
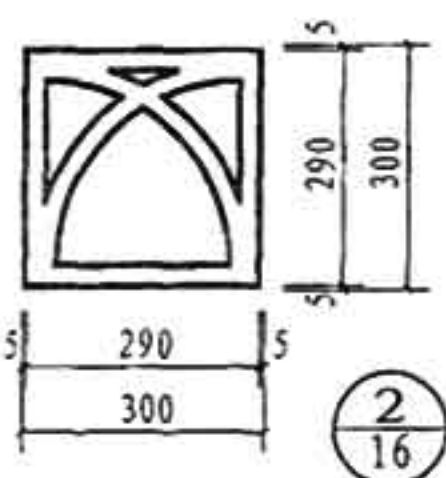
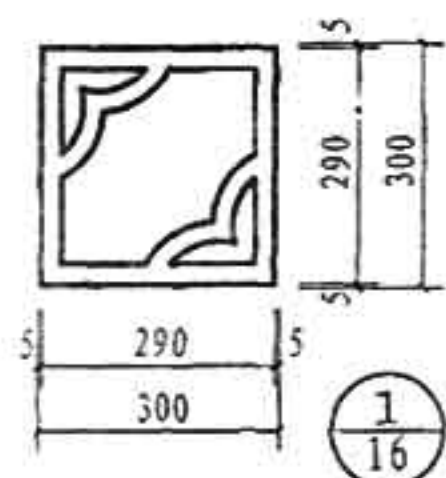
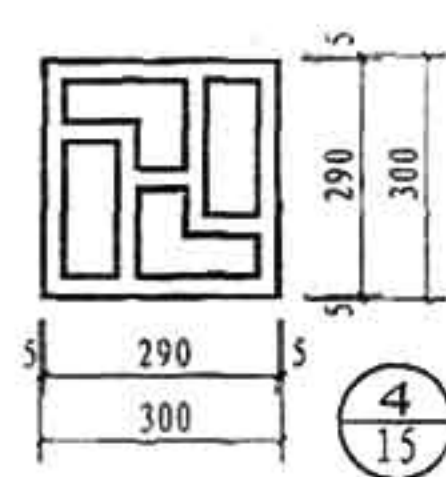
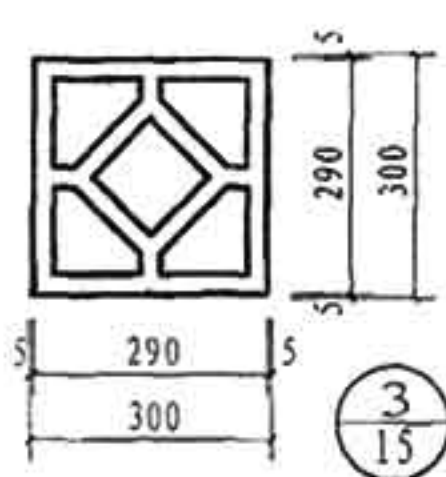
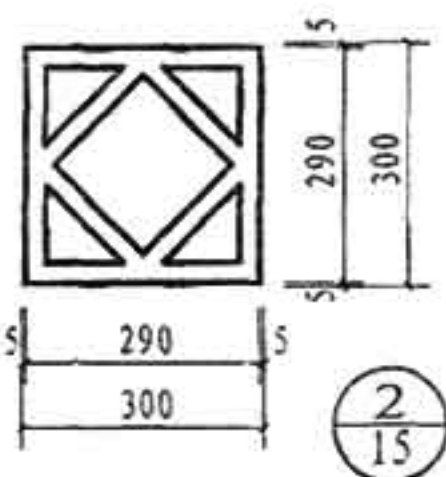
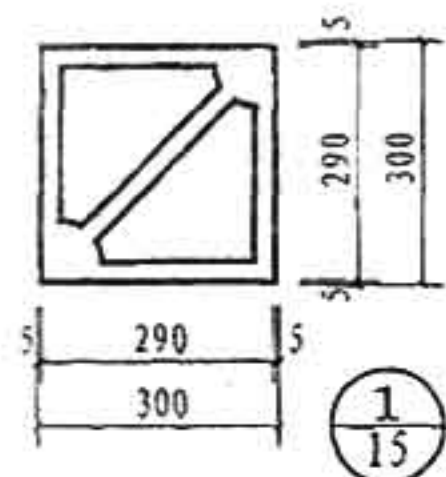
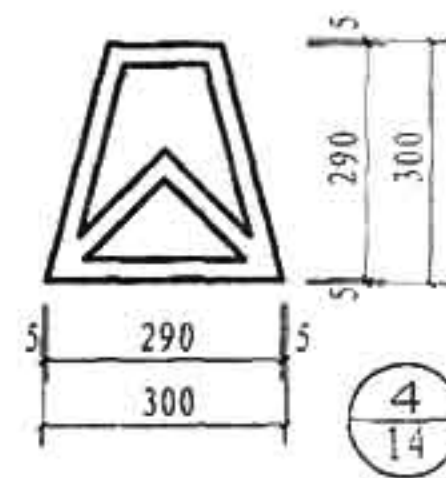
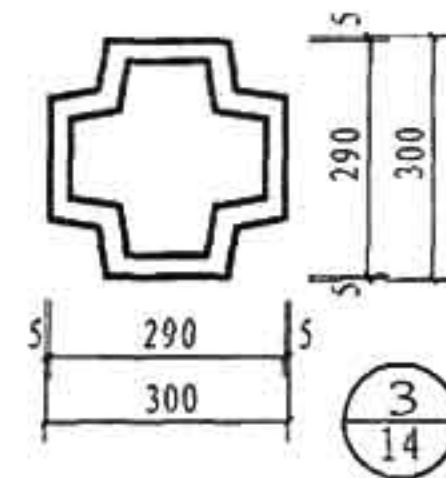
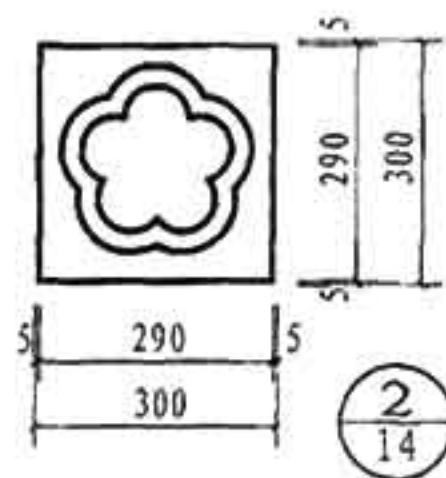
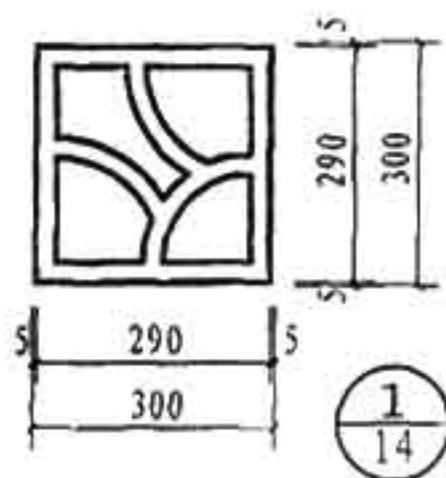
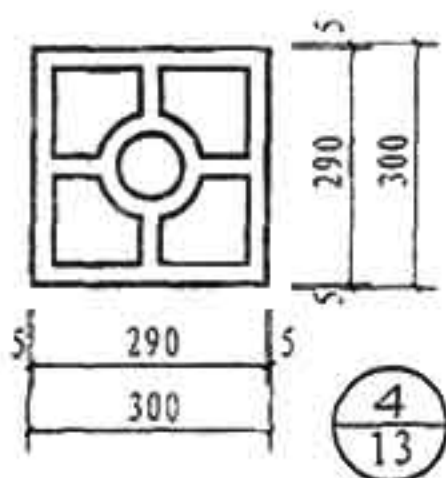
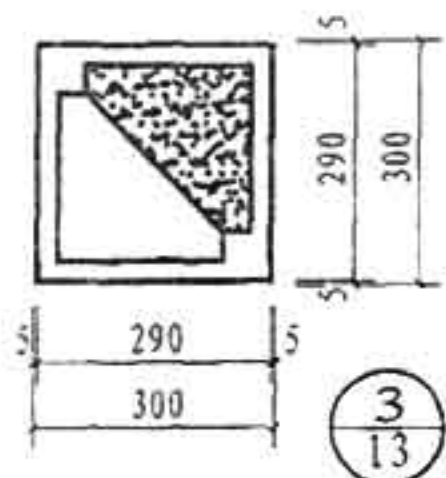
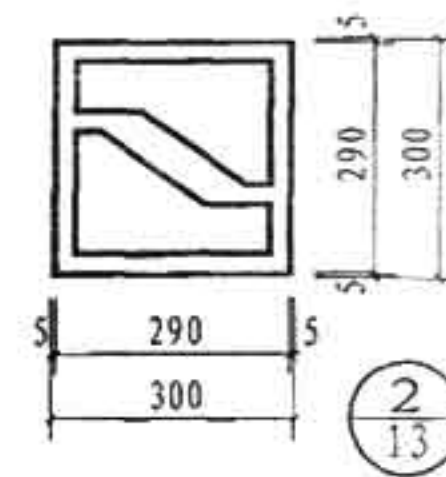
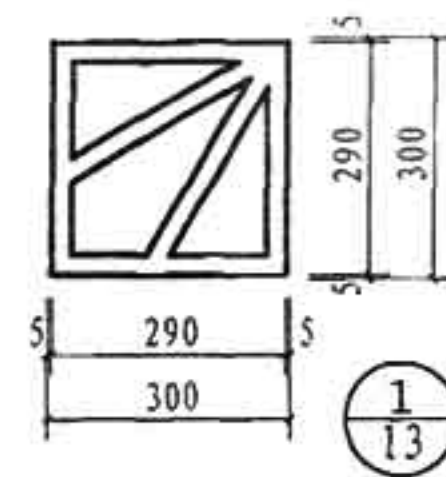
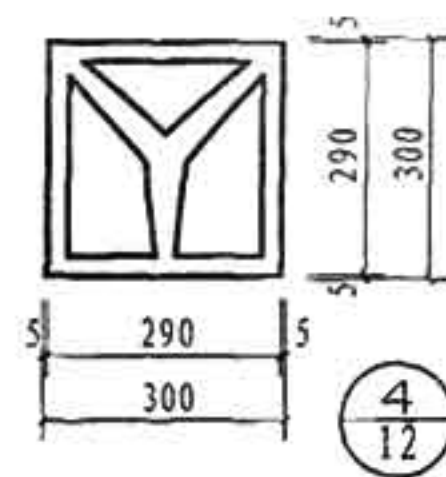
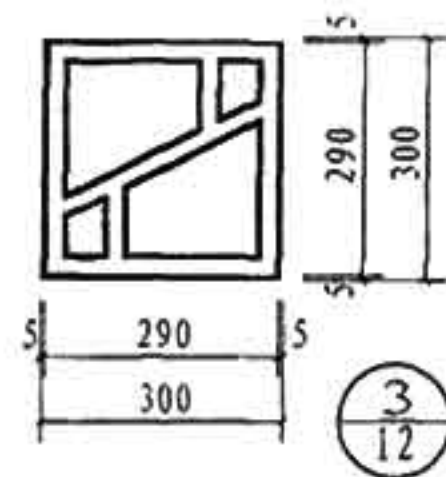
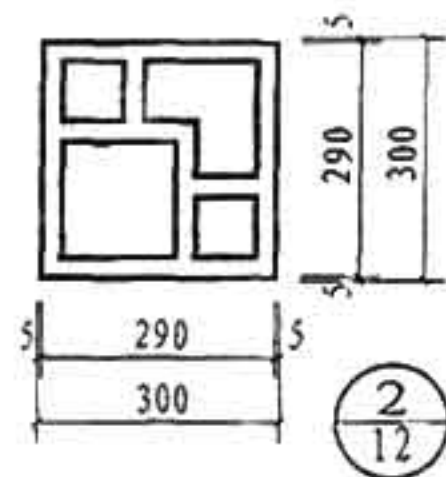
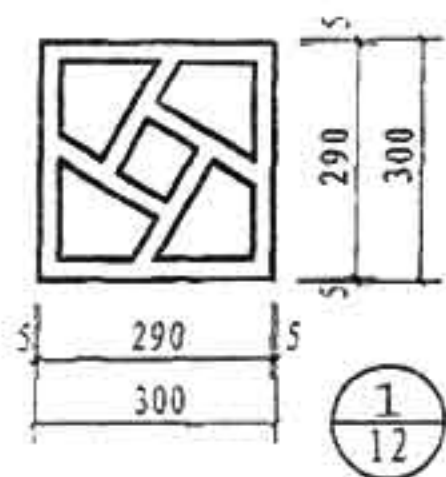
7 其他

7.1 本图集未注明单位的尺寸均以毫米(mm)为单位。

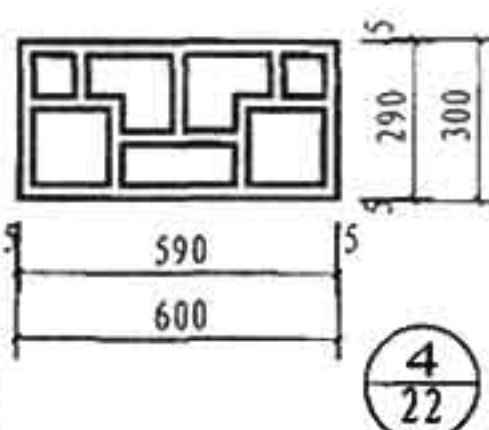
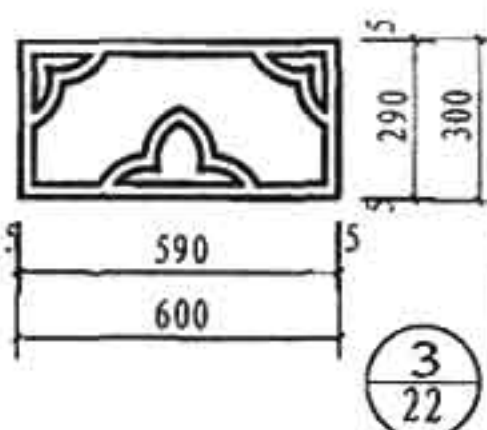
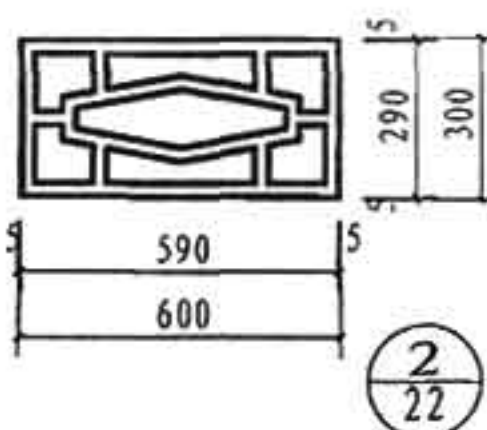
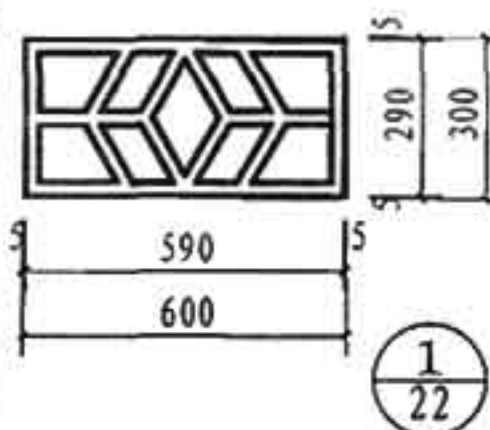
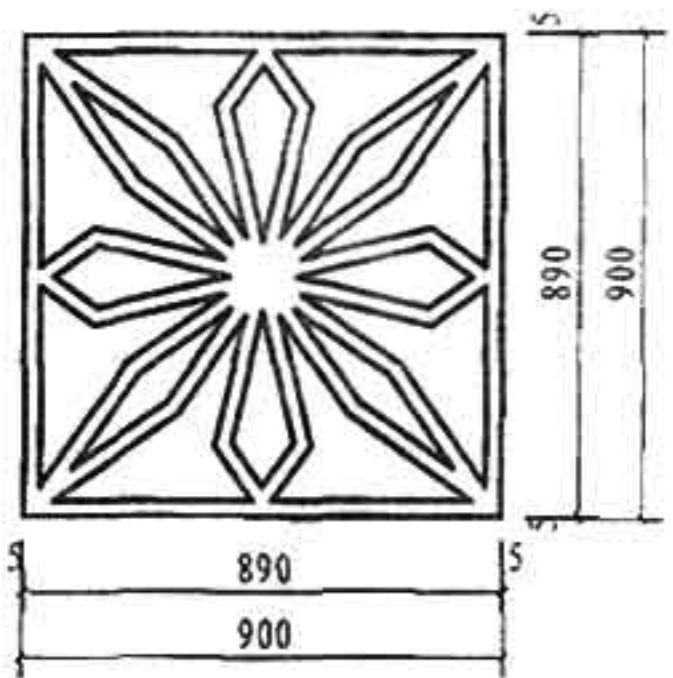
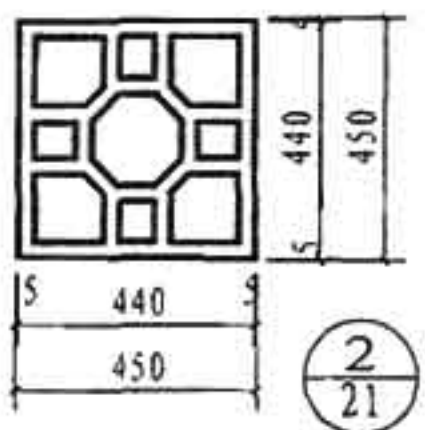
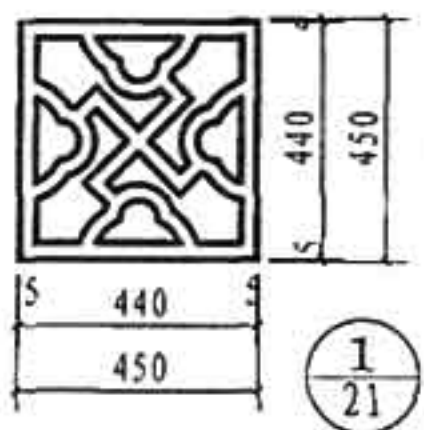
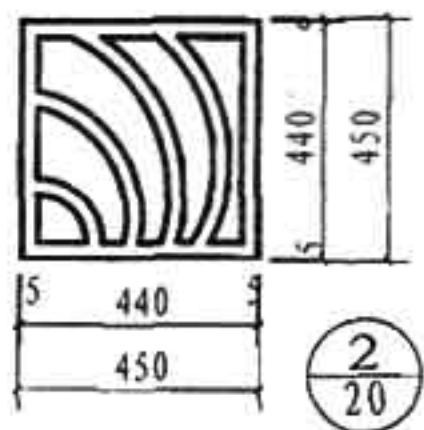
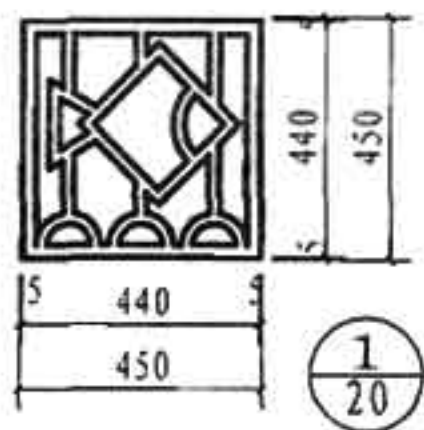
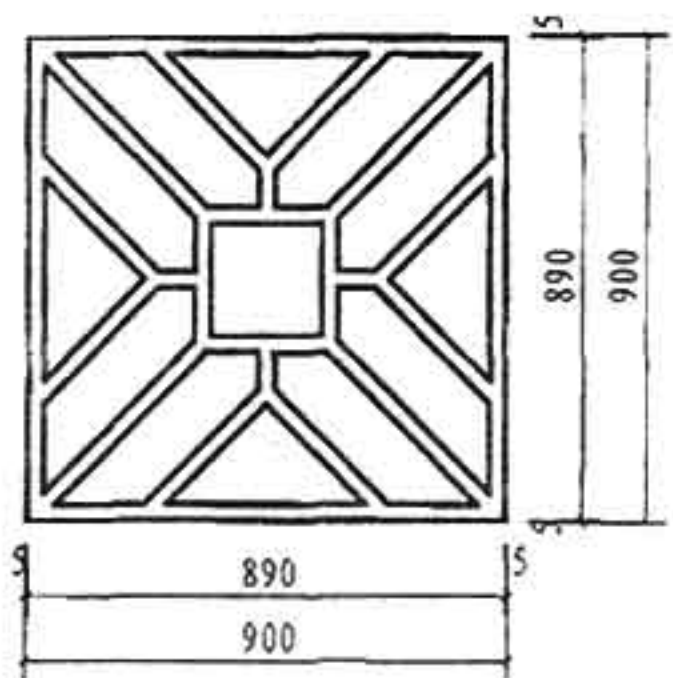
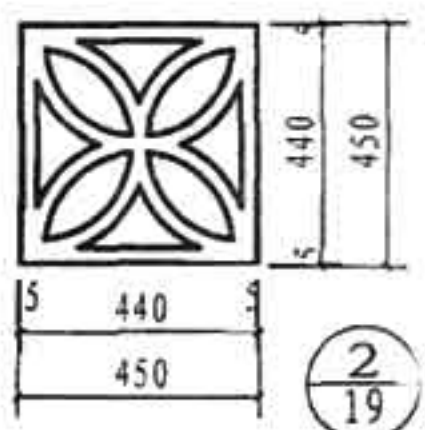
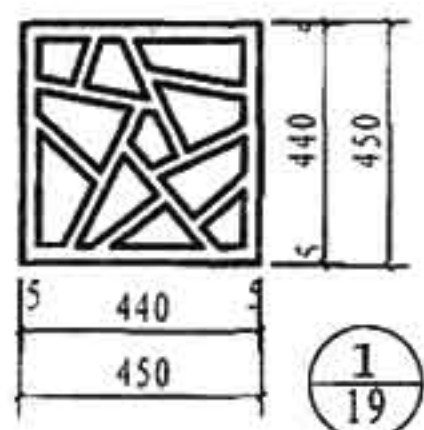
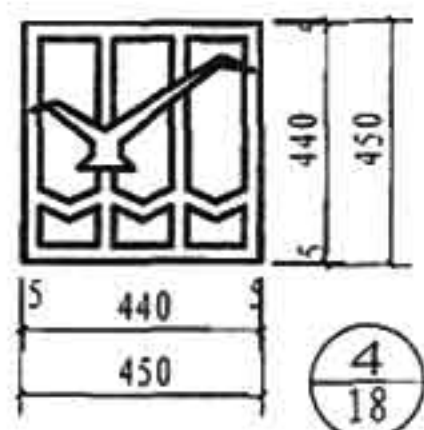
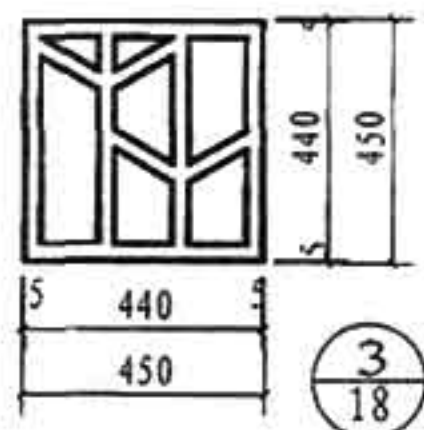
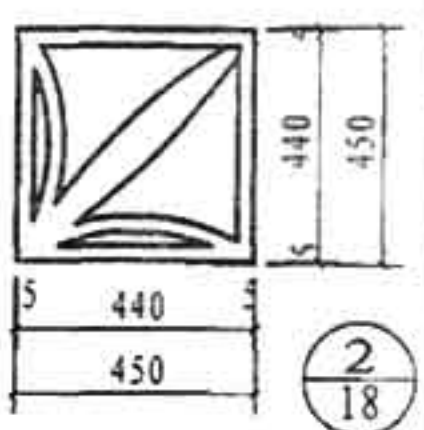
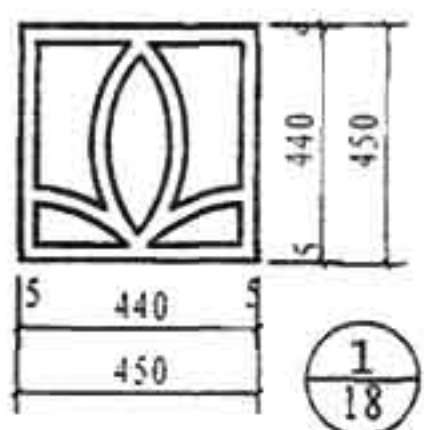
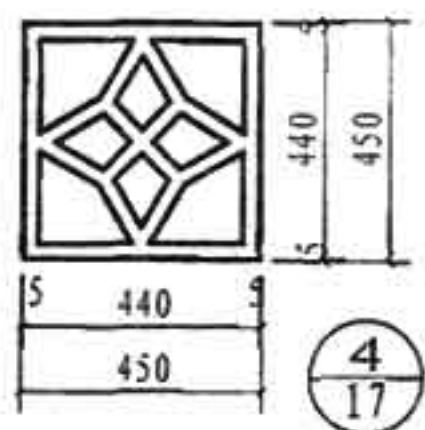
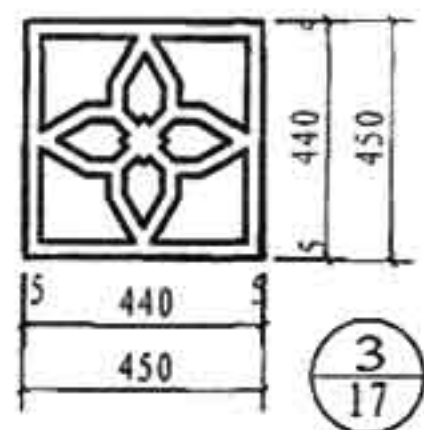
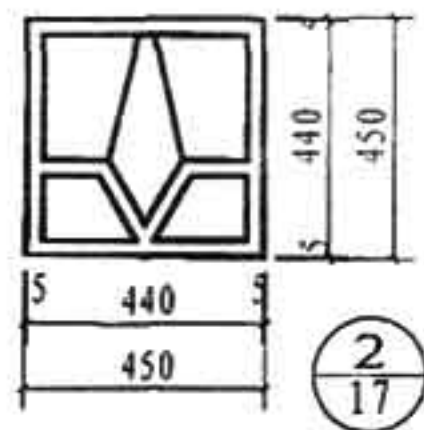
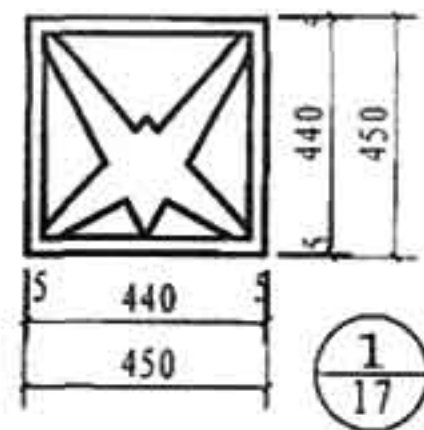
7.2 本图集中有关设计、施工安装质量要求,除图集中注明者外,均需按照国家颁发的《建筑装饰工程施工及验收规范》(GB50210-2001)执行。

7.3 本图集未尽事宜,应按国家现行有关标准、规范、规程和技术法规执行。

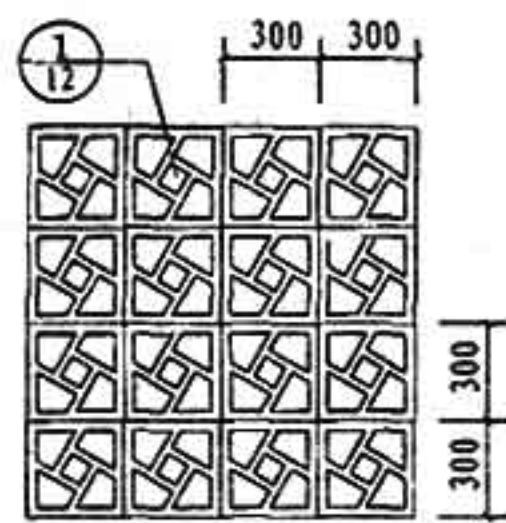
7.4 选用本图集时,本图集所依据的标准和技术规程如有新的版本,应按新版本作相应的验算调整。



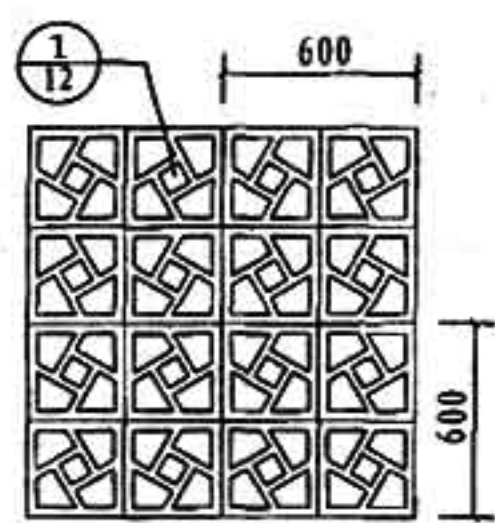
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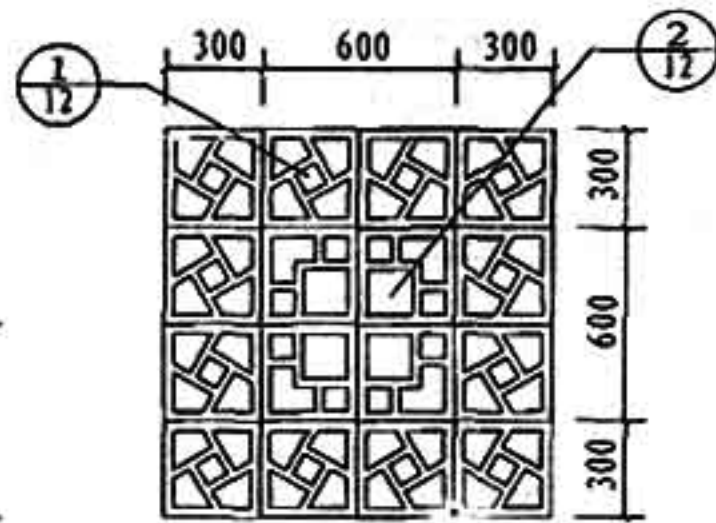
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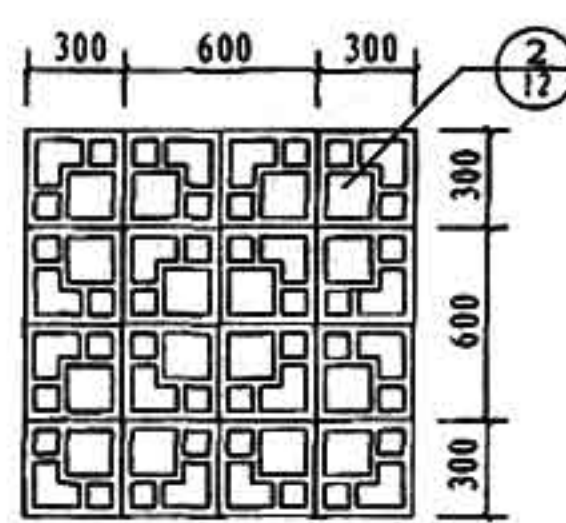
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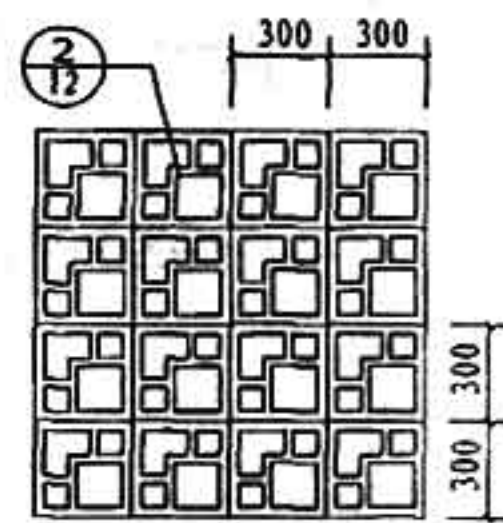
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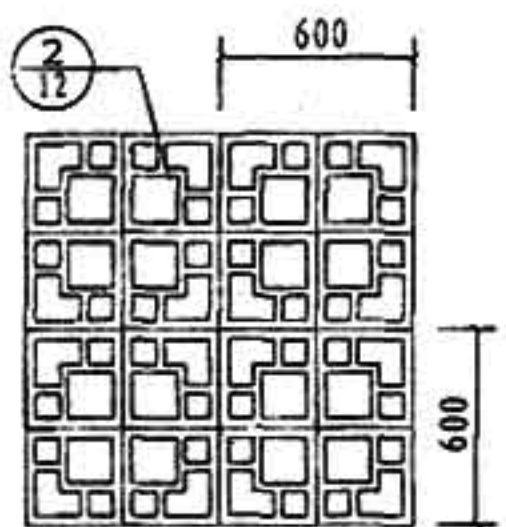
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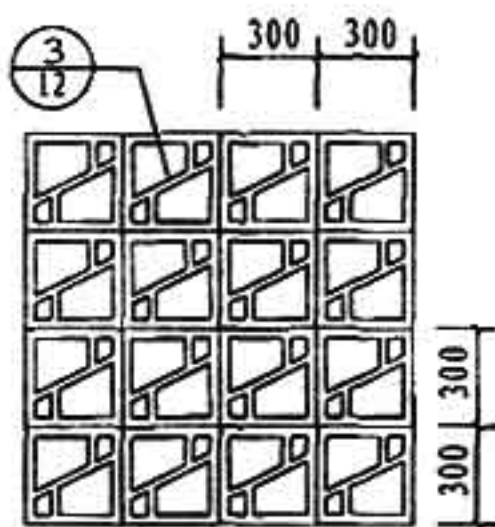
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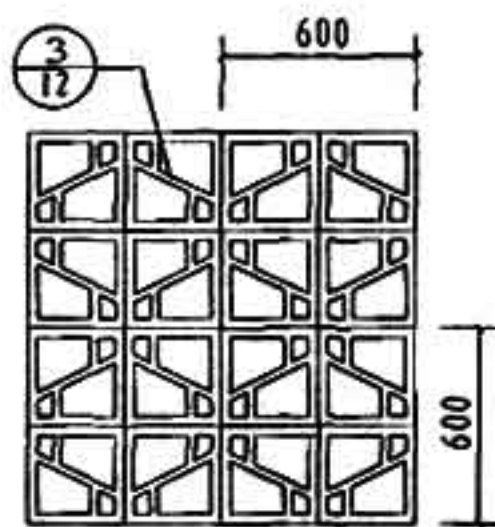
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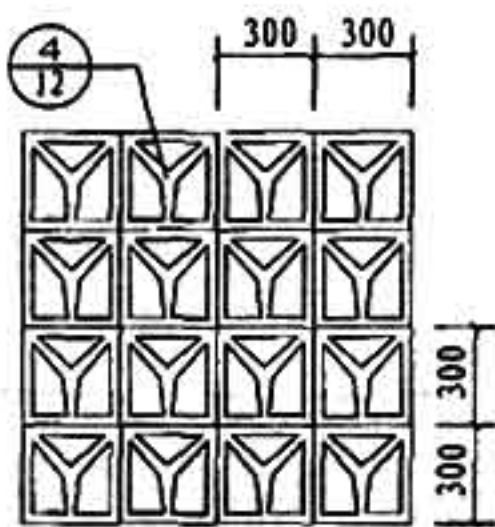
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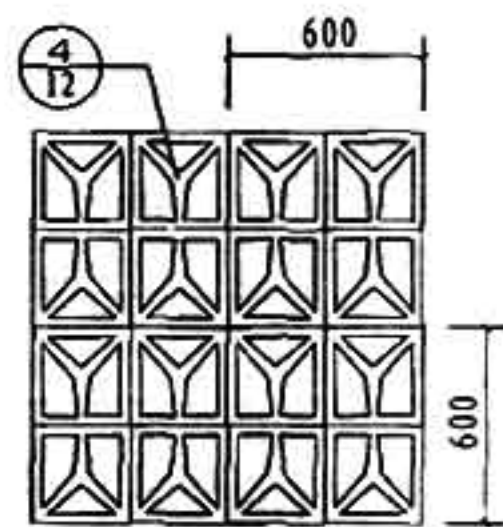
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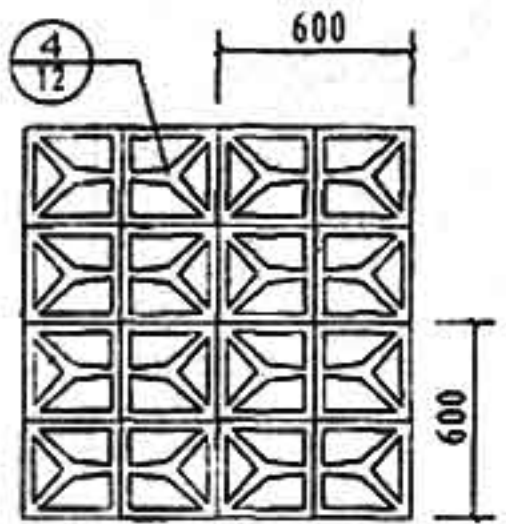
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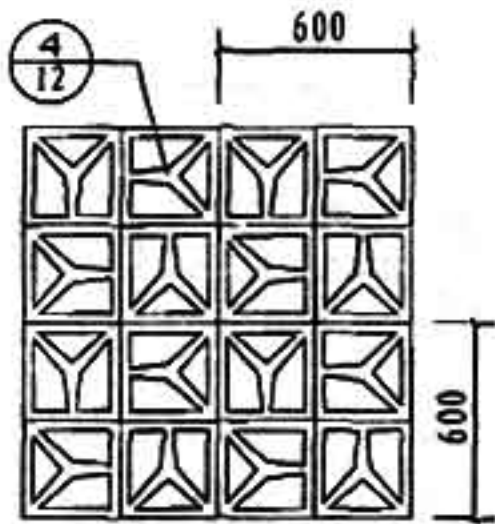
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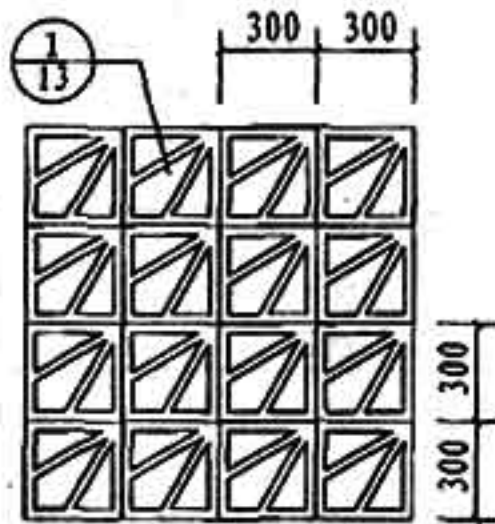
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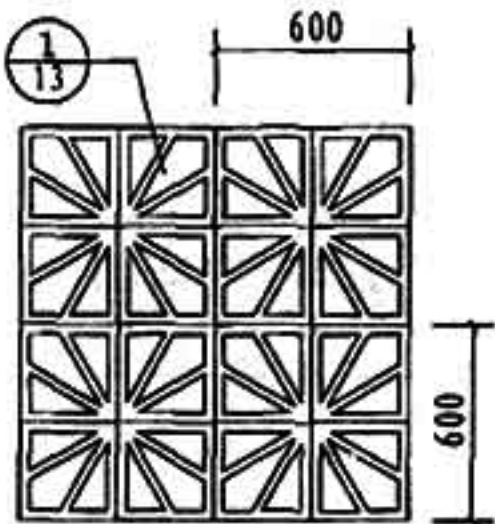
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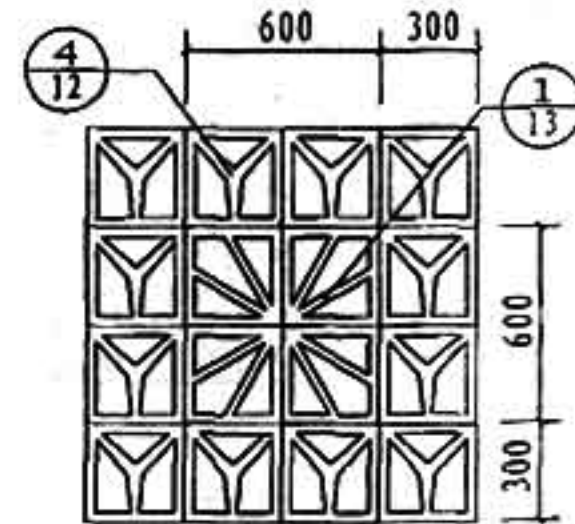
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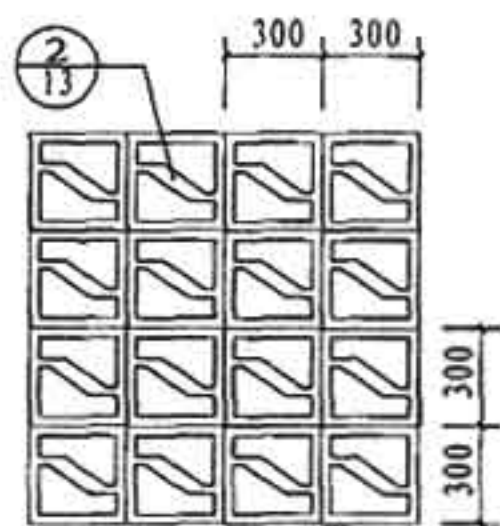
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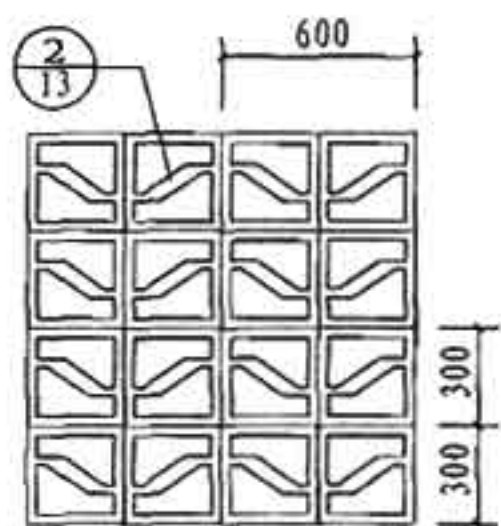
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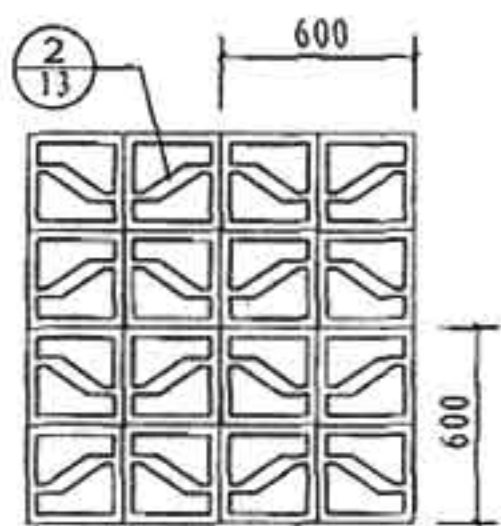
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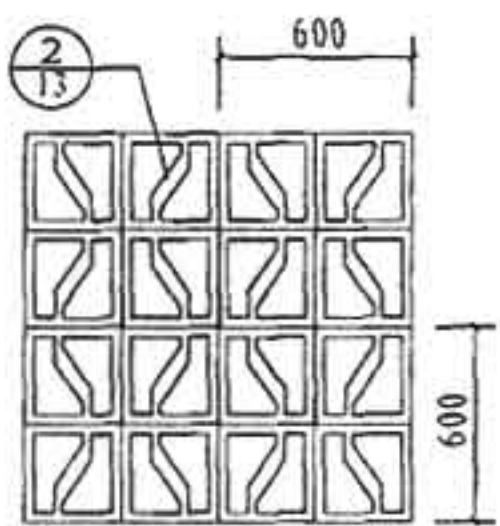
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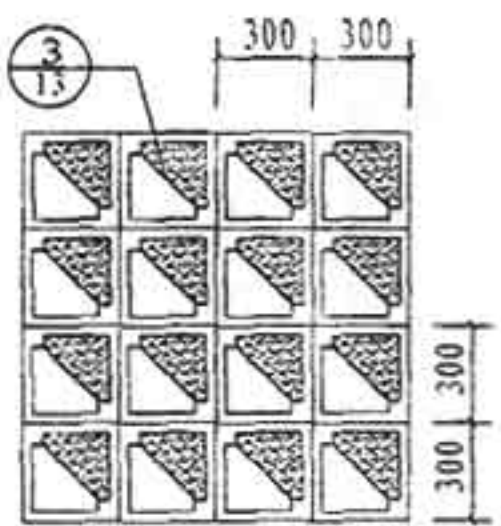
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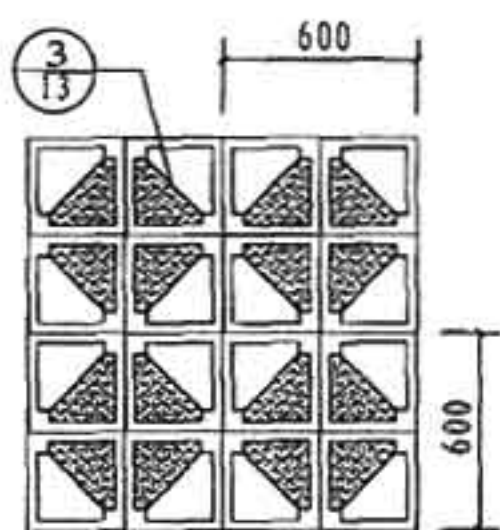
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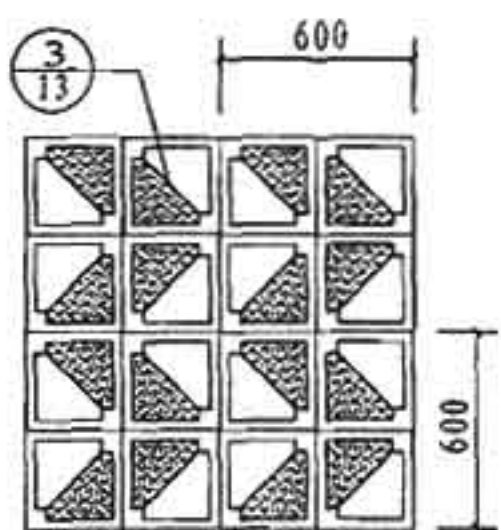
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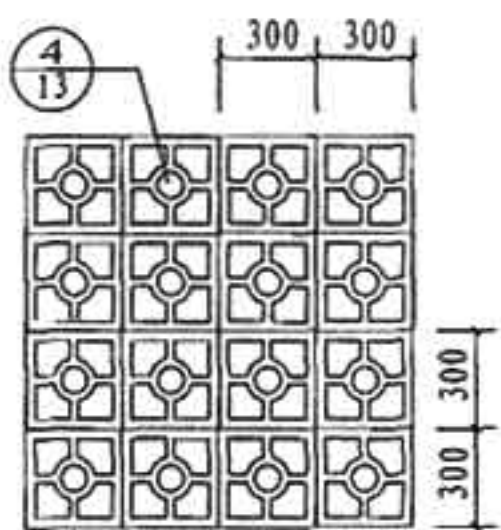
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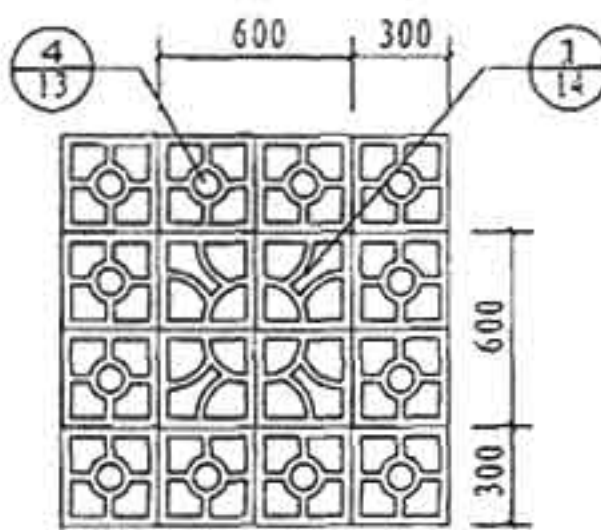
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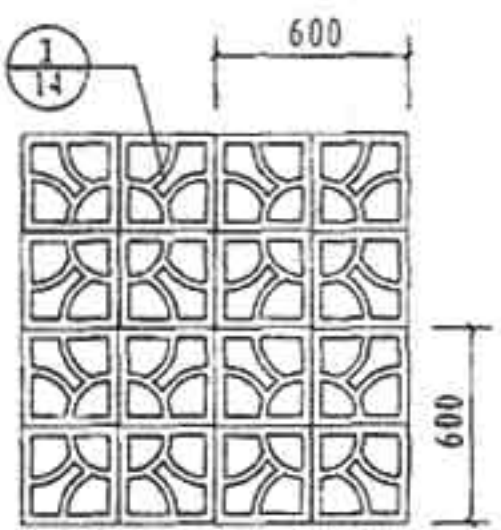
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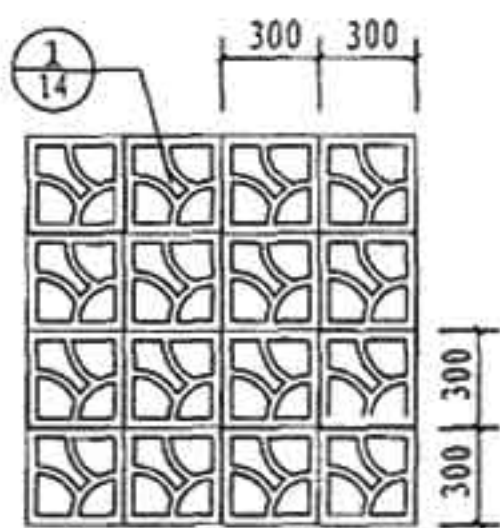
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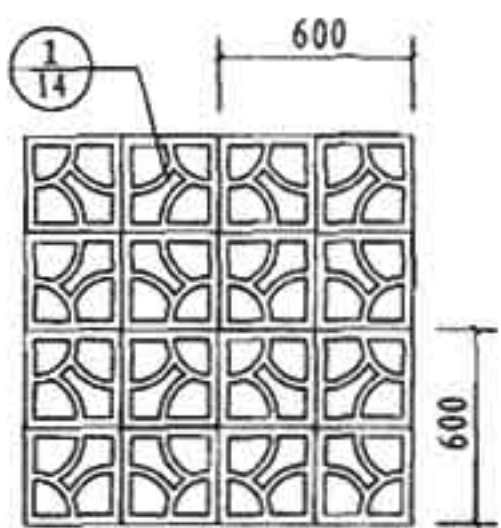
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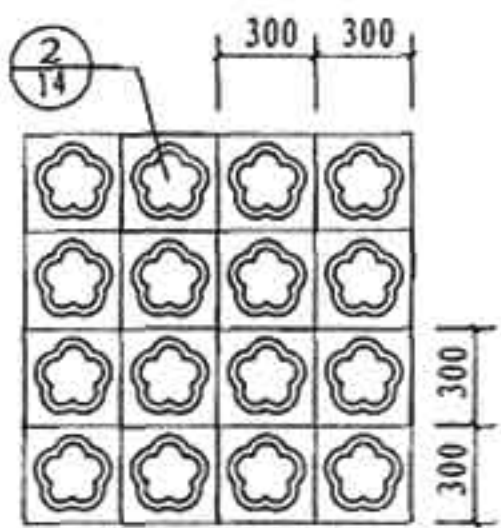
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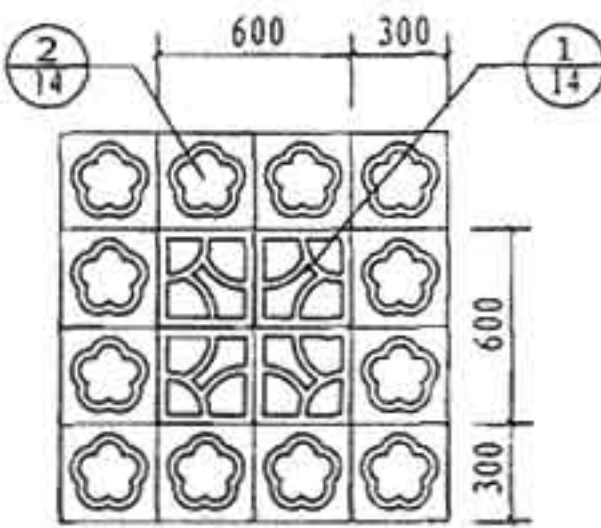
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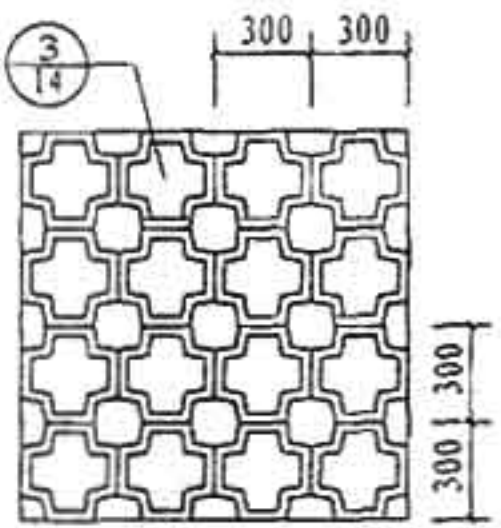
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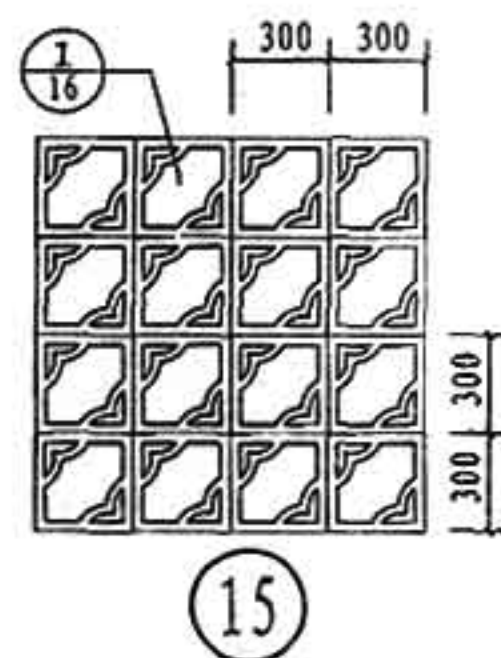
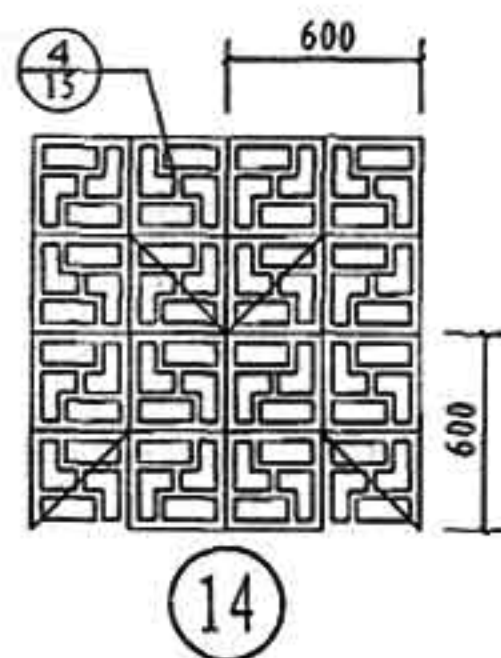
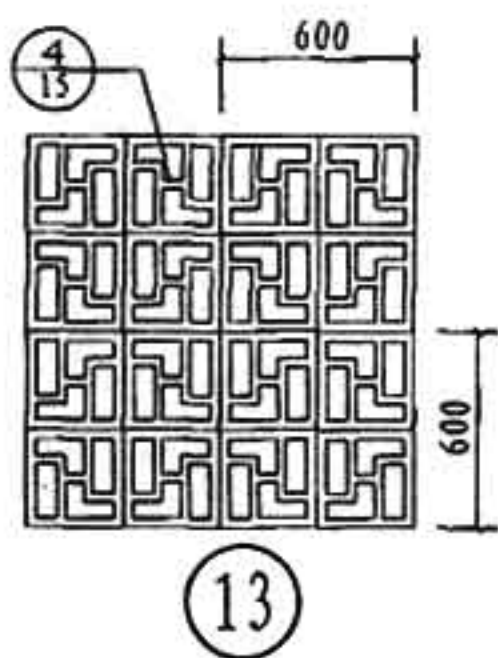
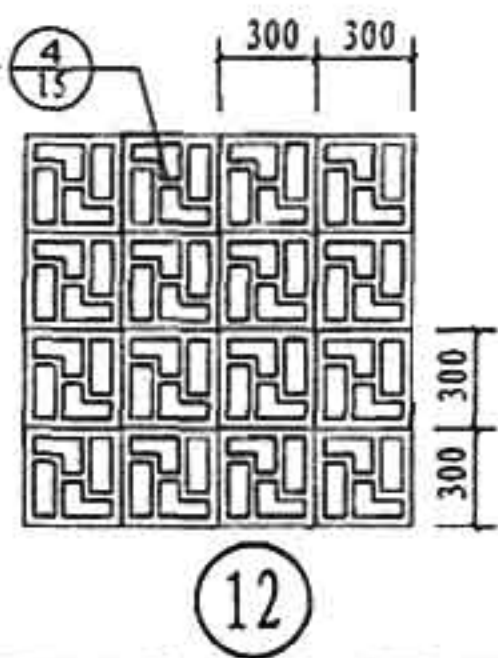
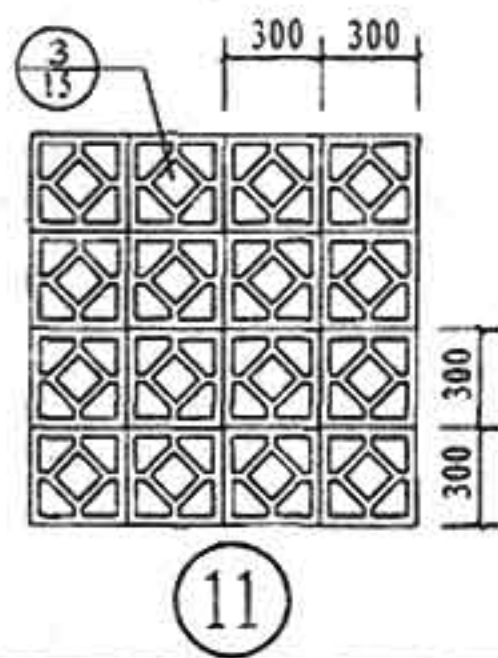
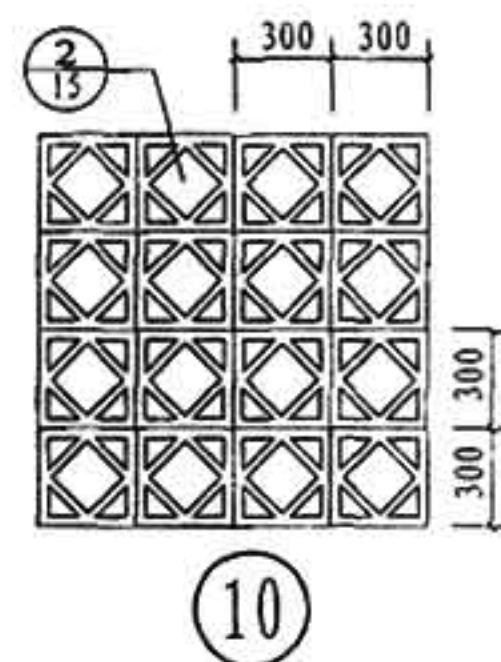
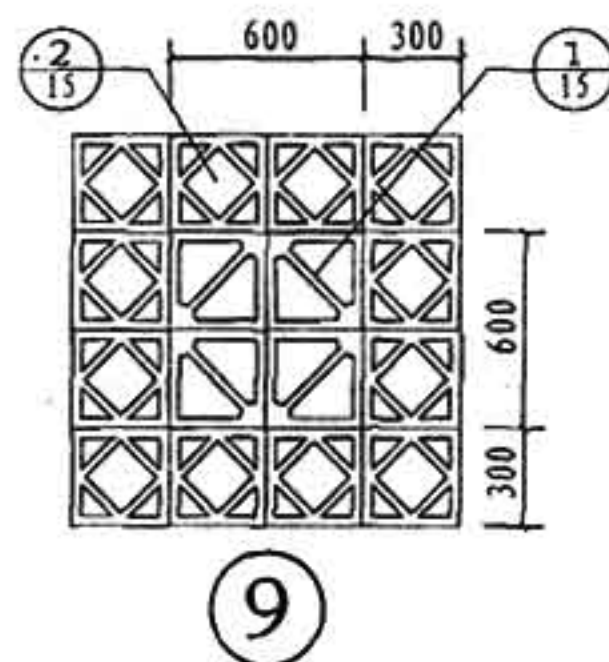
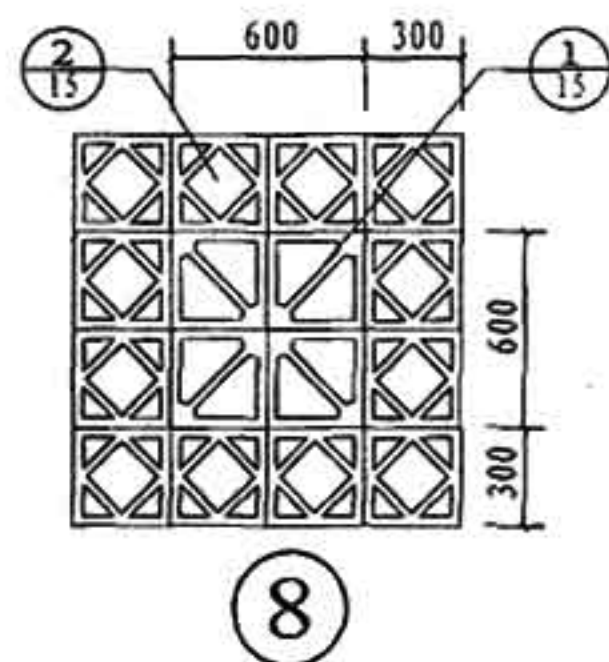
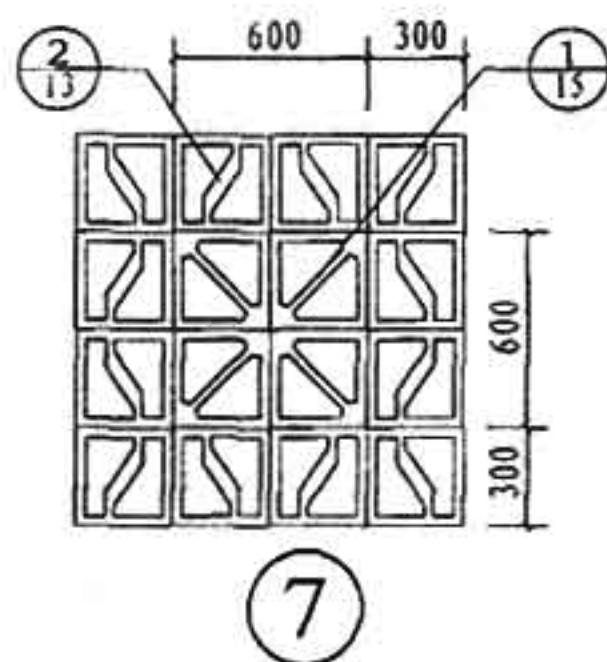
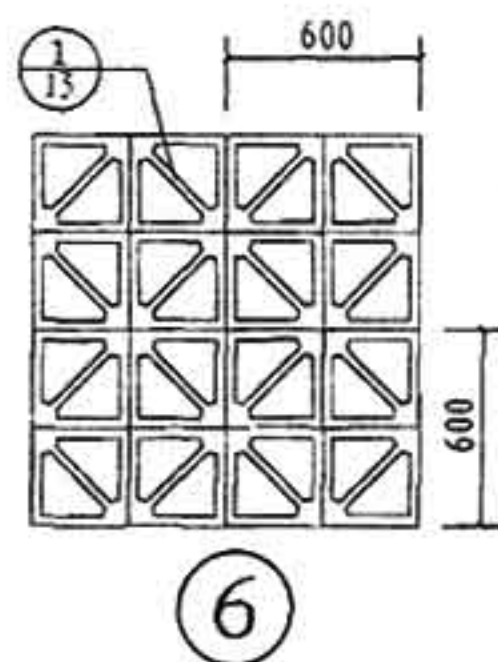
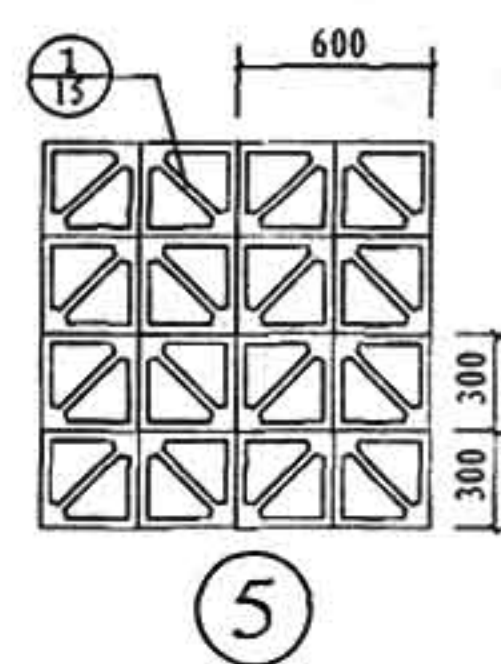
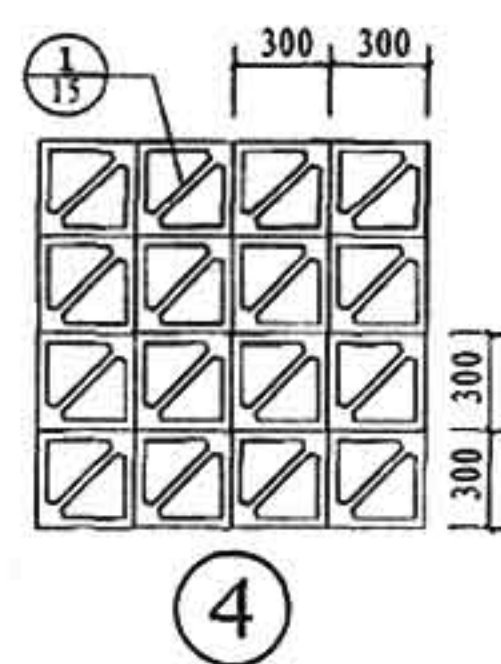
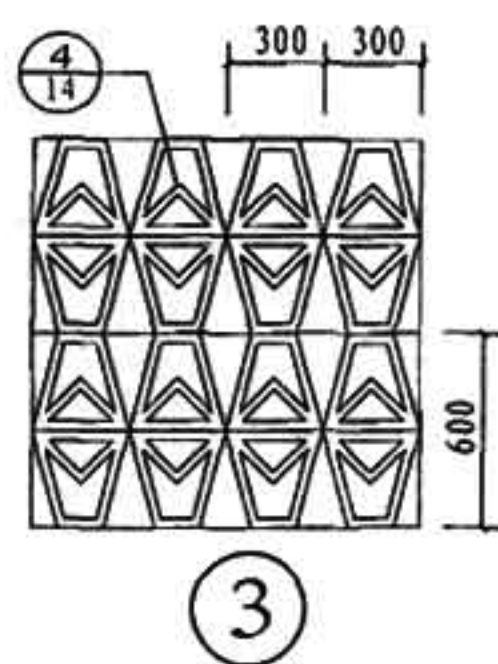
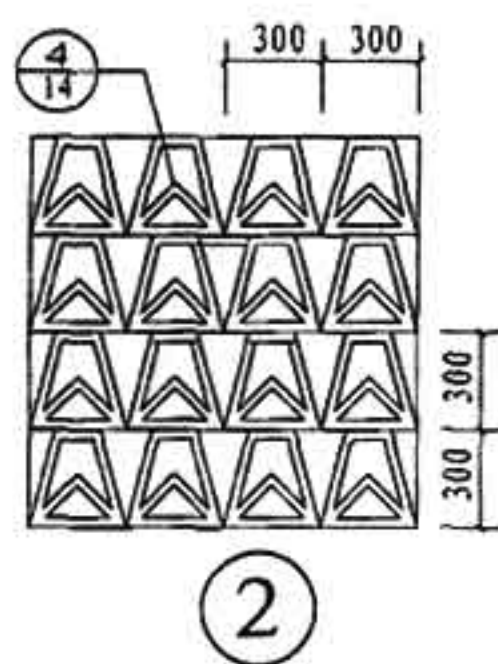
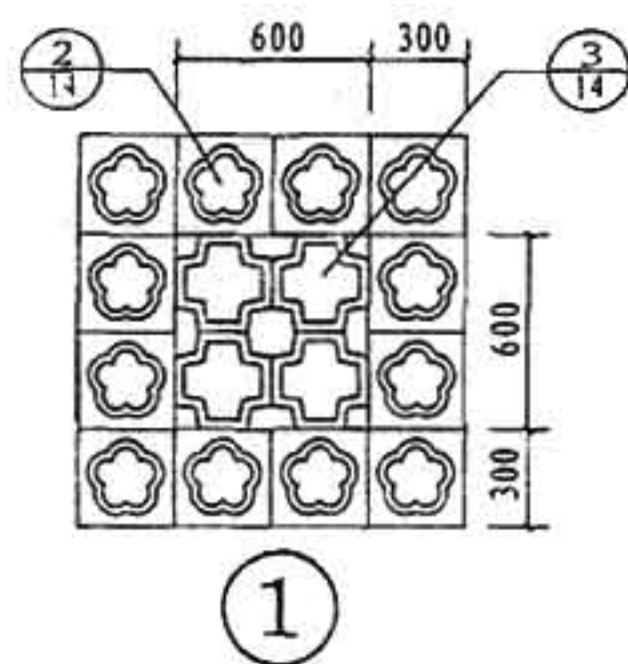
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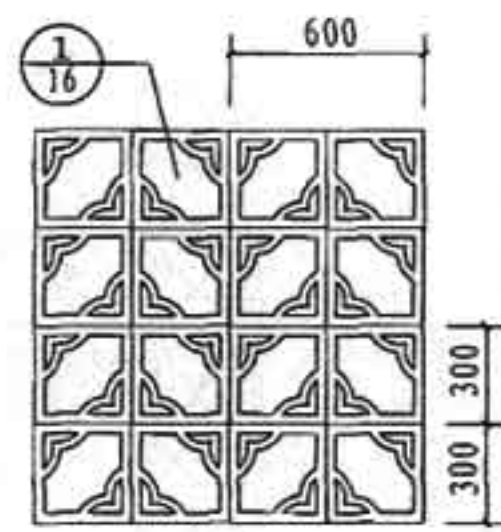
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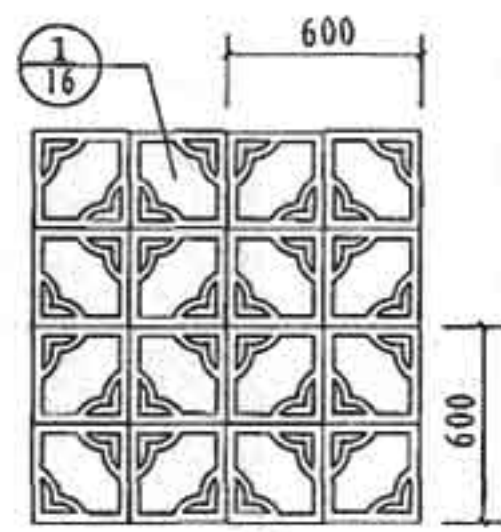
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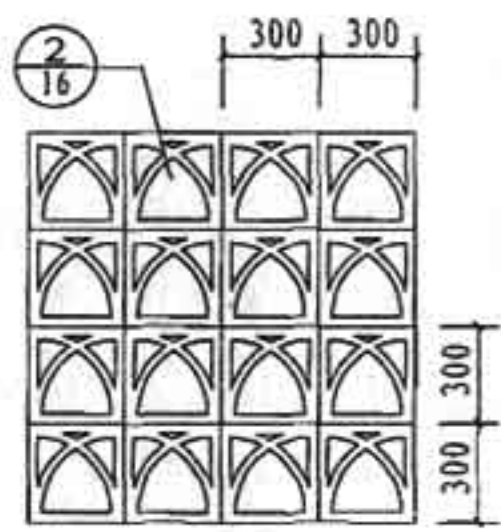
设计
 车艳娜
 陈志刚
 陈志刚
 校对
 设计
 绘图



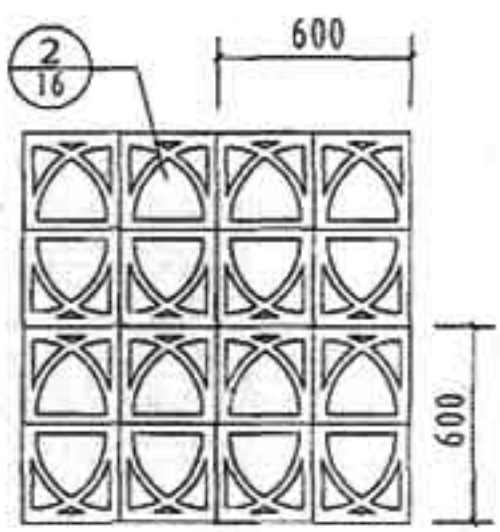
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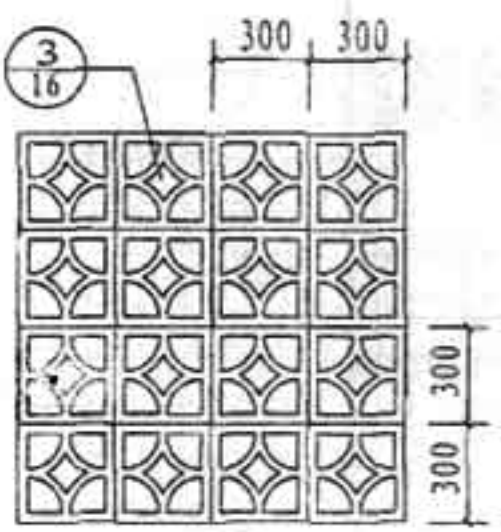
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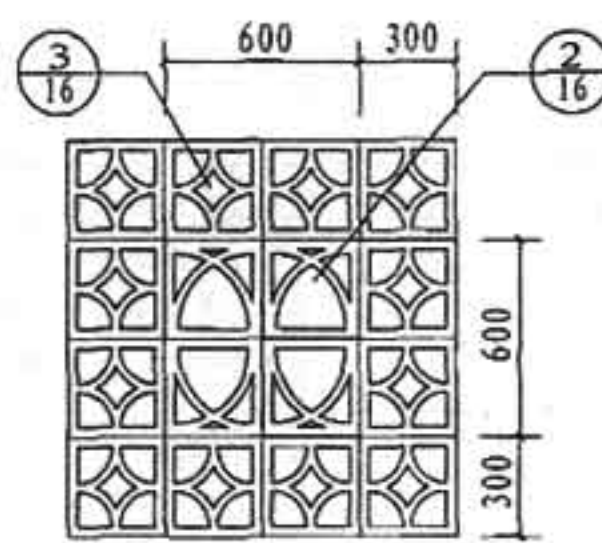
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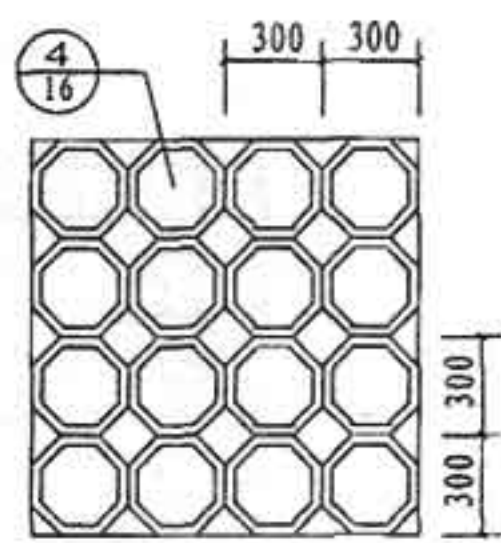
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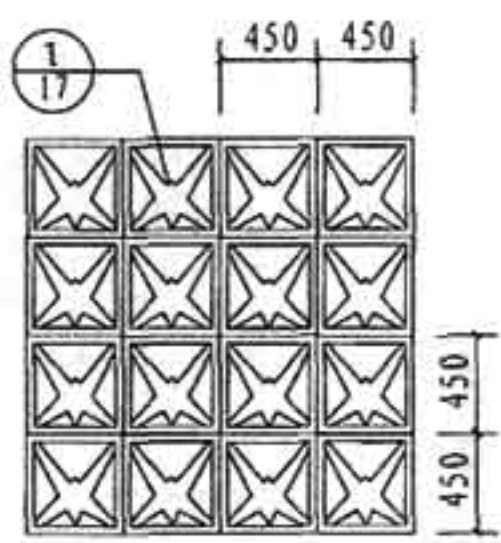
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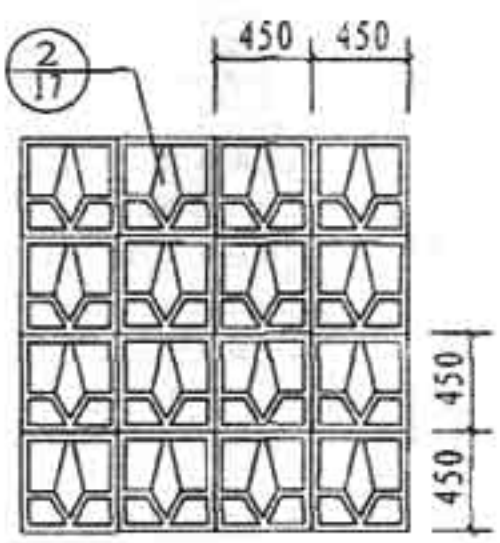
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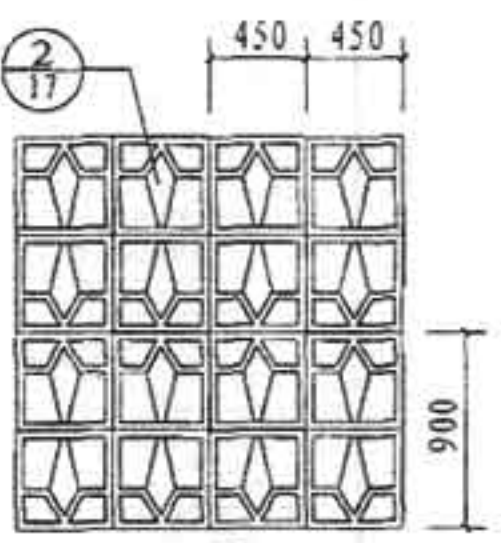
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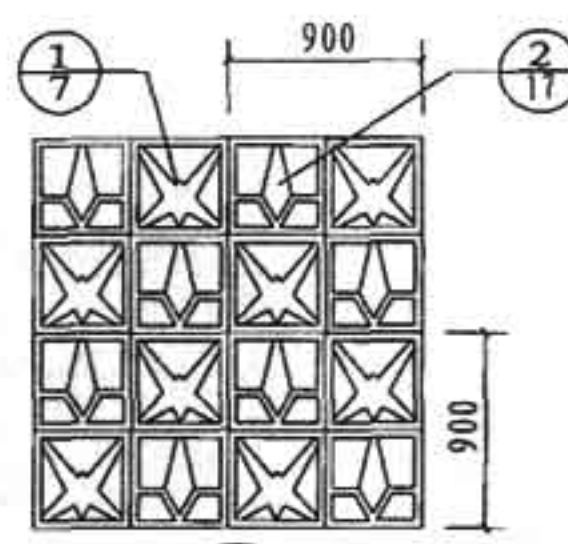
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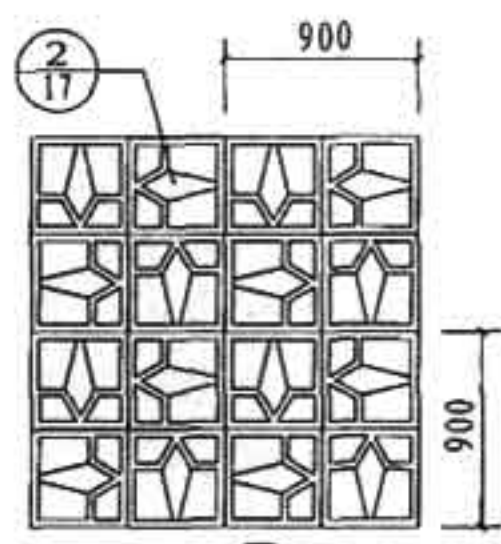
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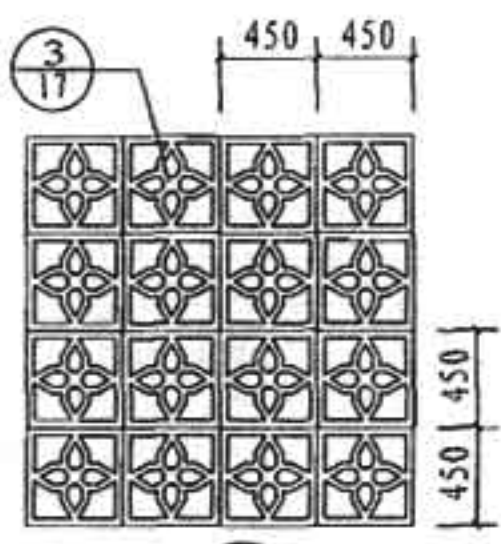
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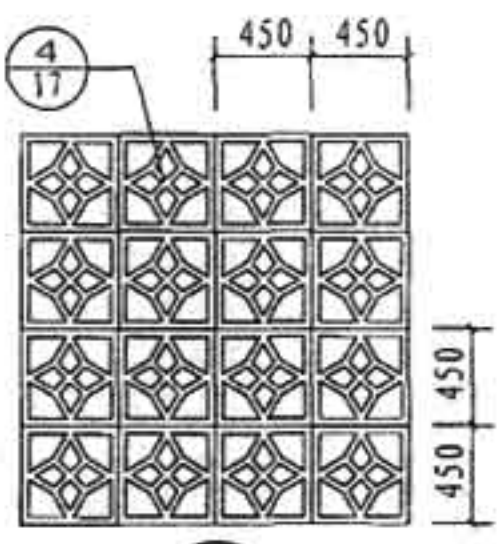
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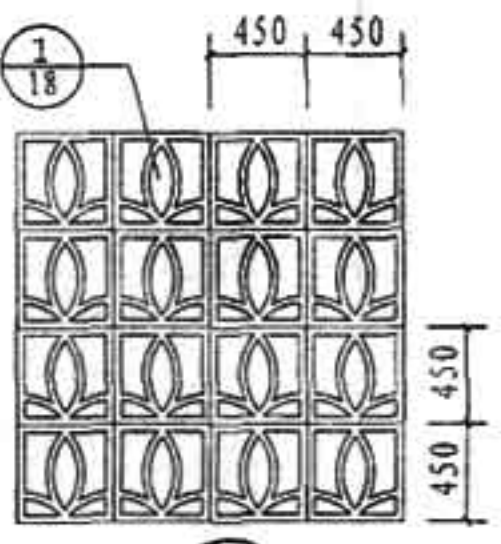
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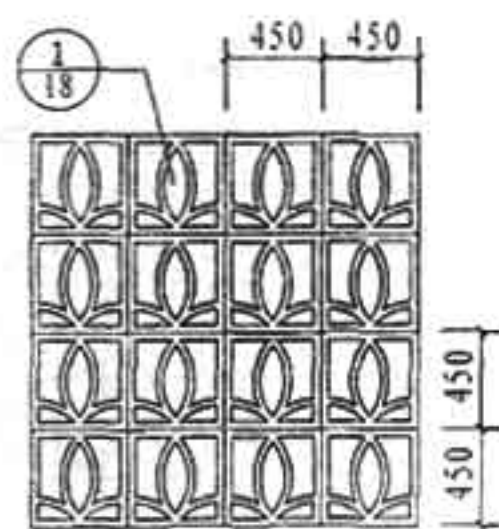
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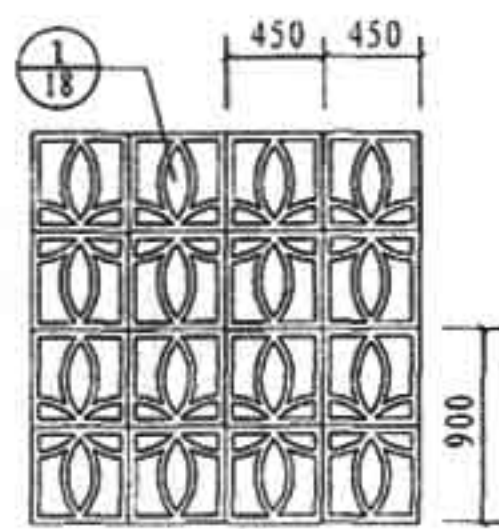
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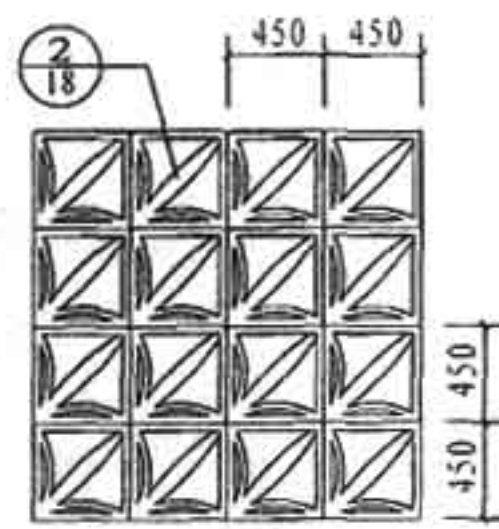
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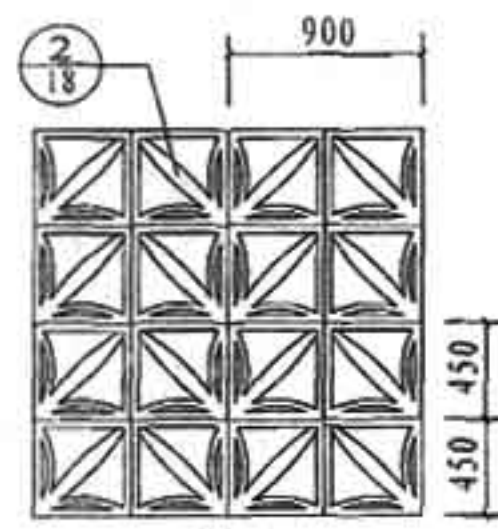
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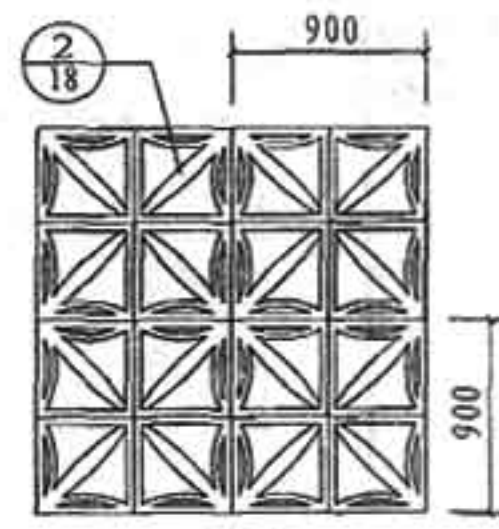
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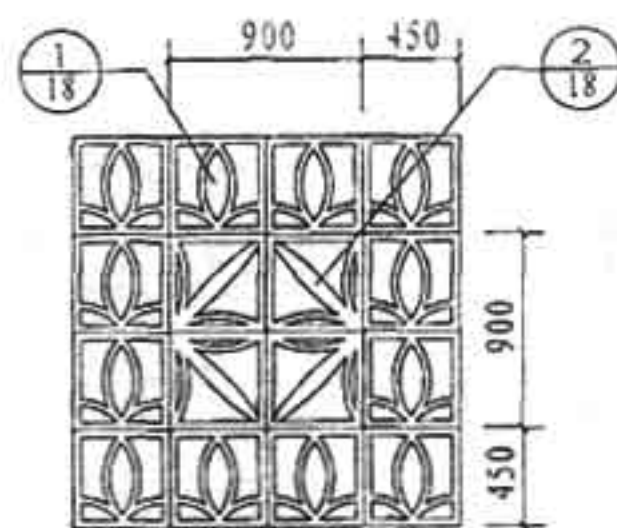
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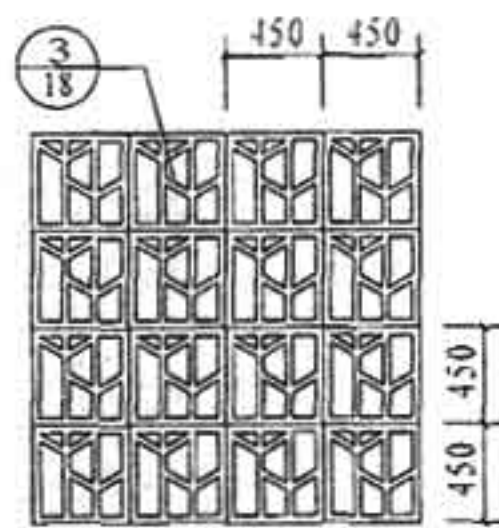
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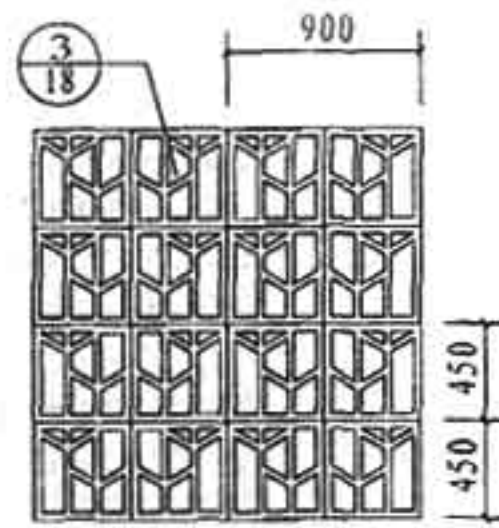
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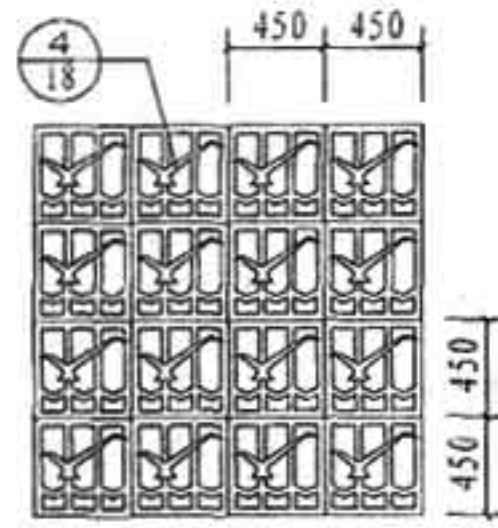
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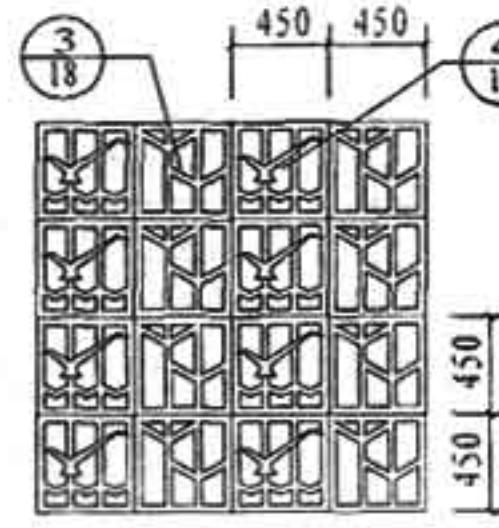
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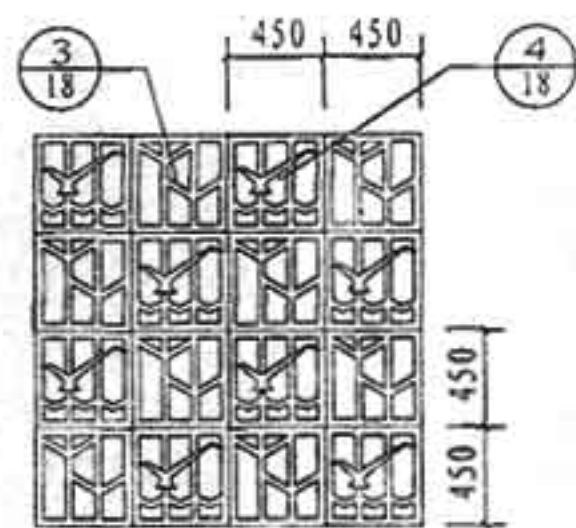
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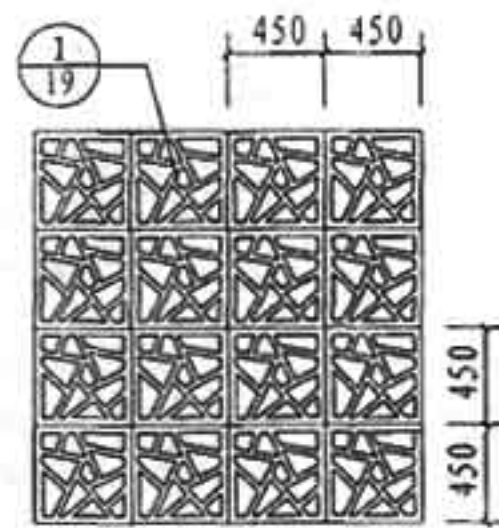
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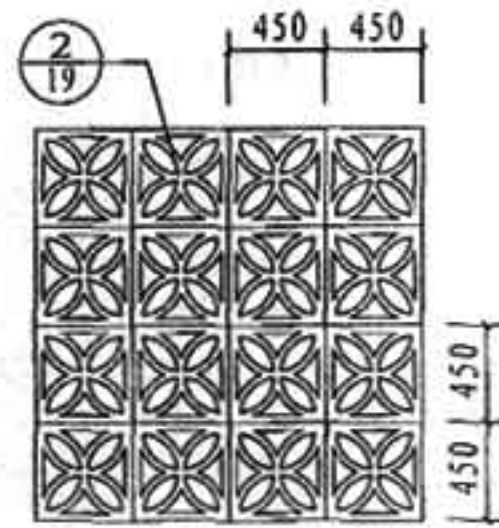
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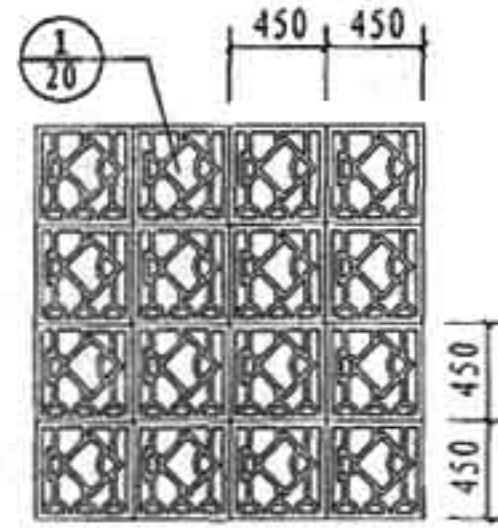
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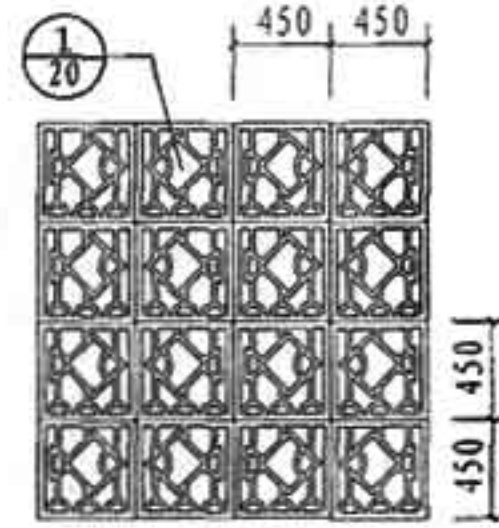
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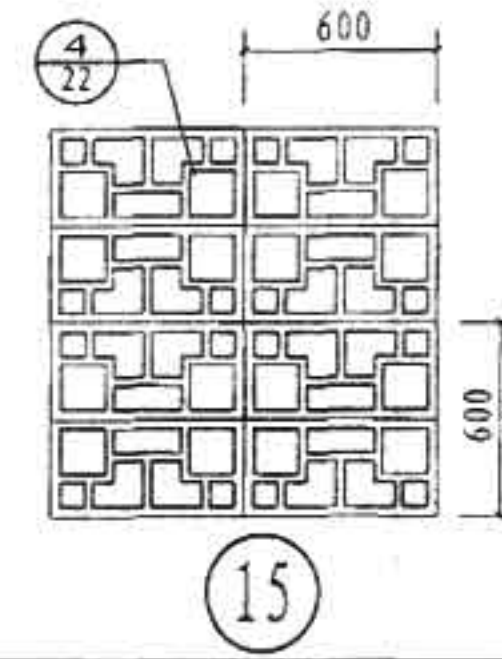
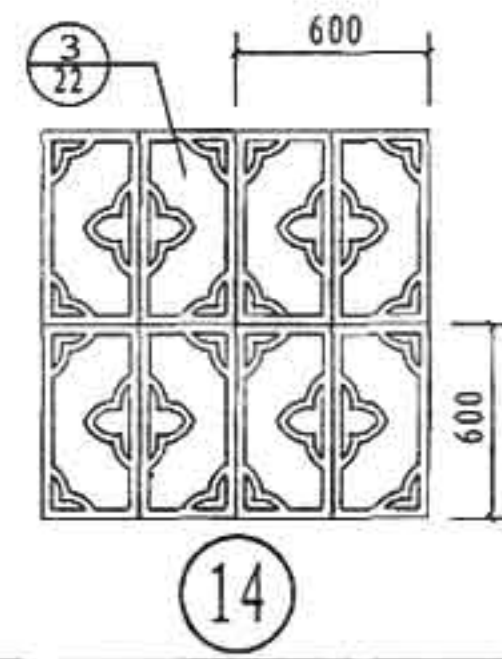
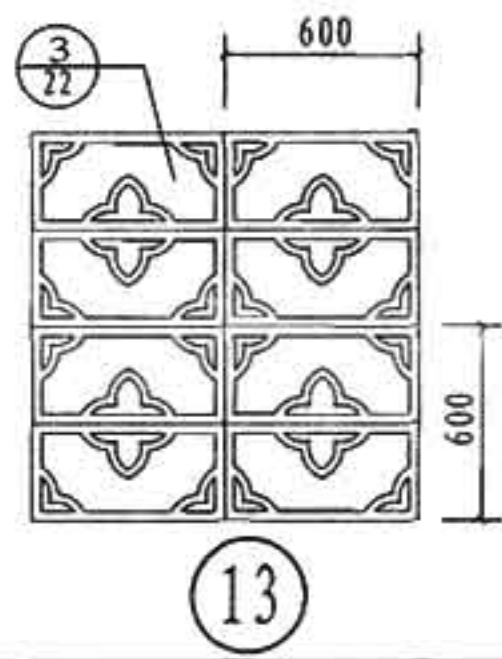
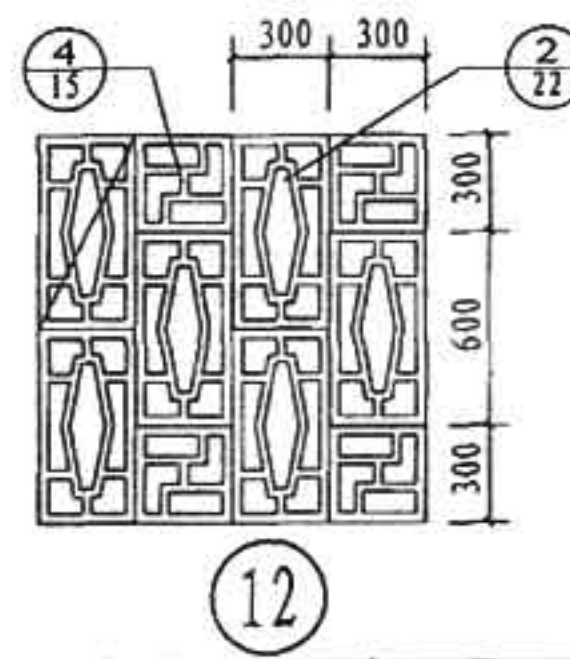
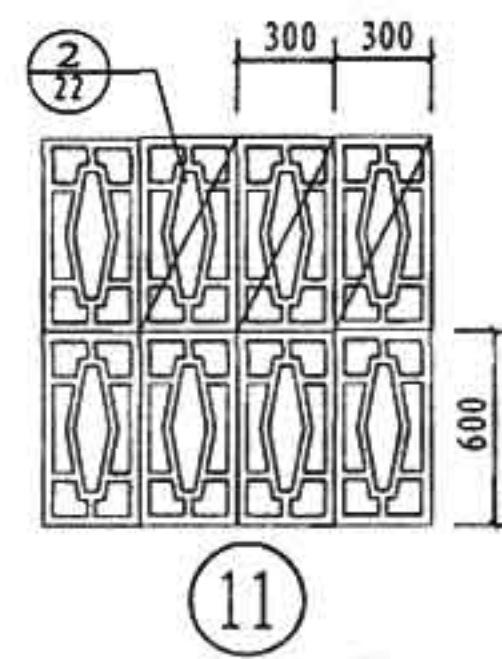
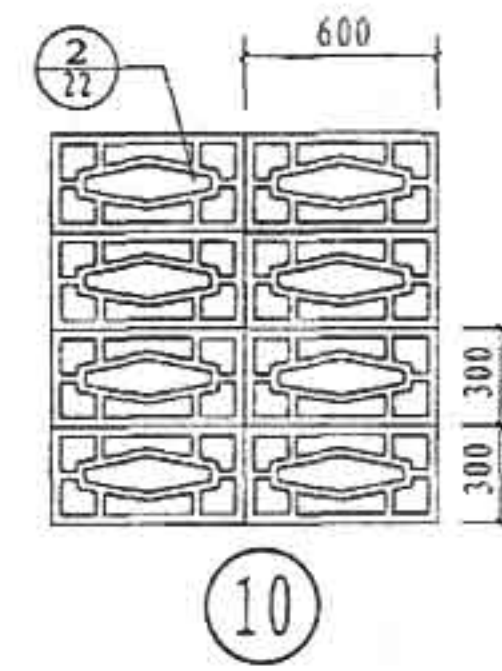
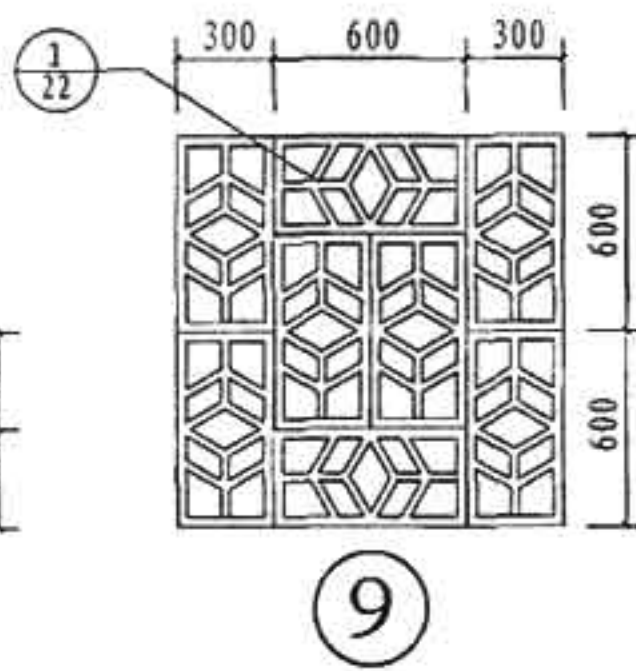
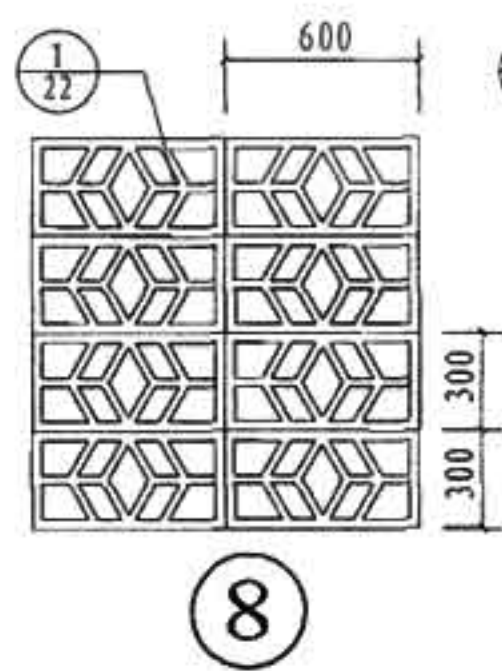
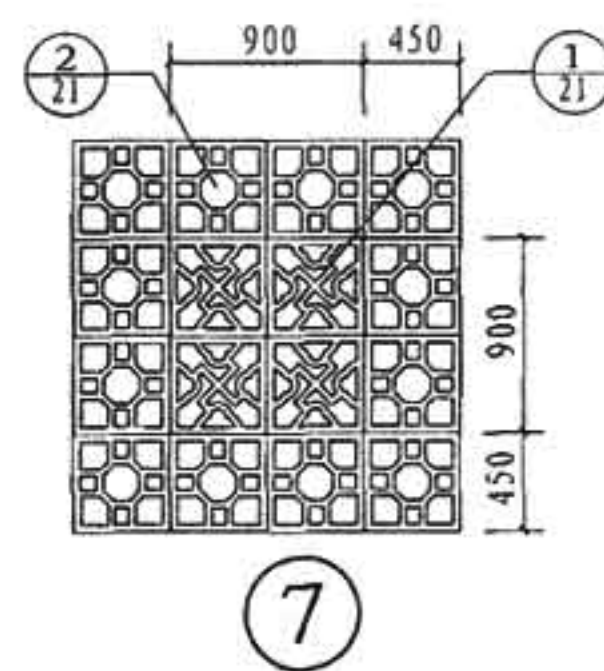
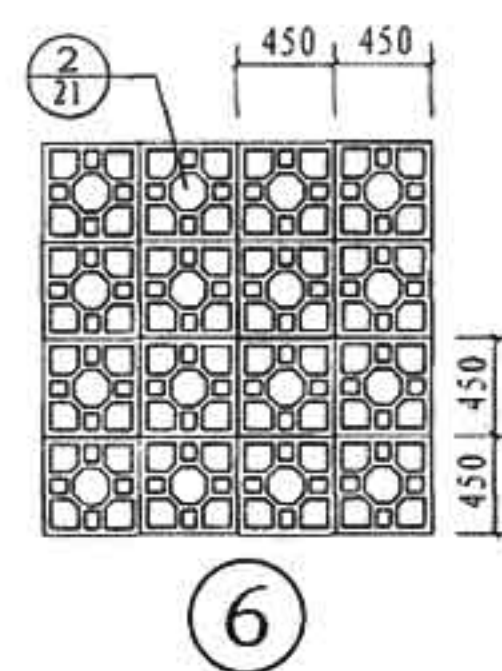
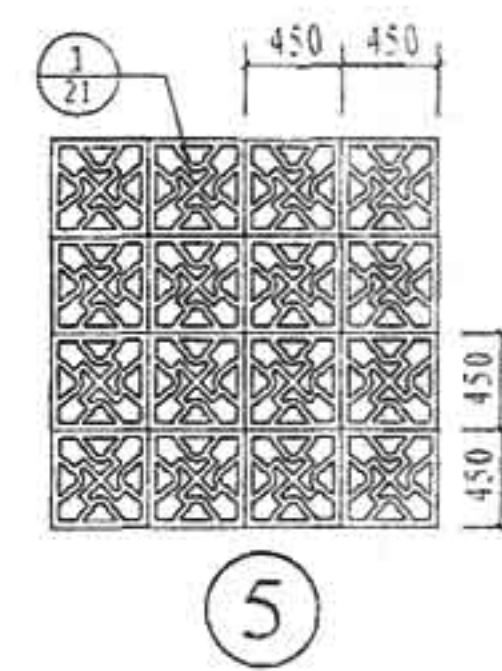
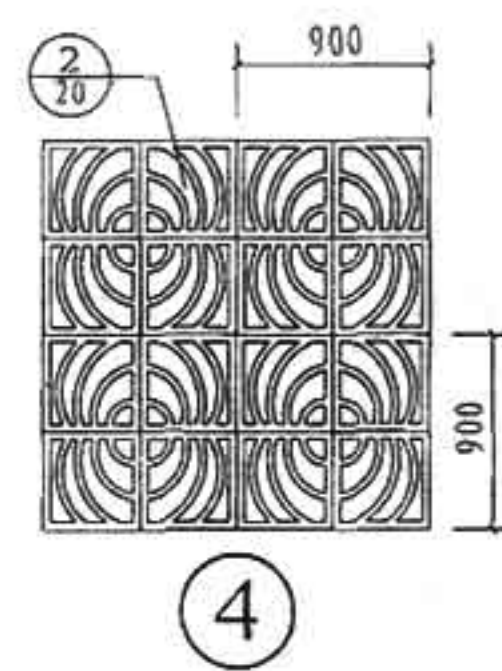
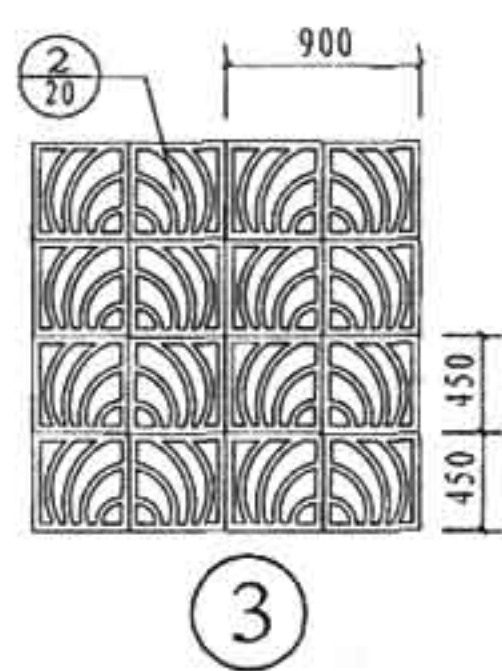
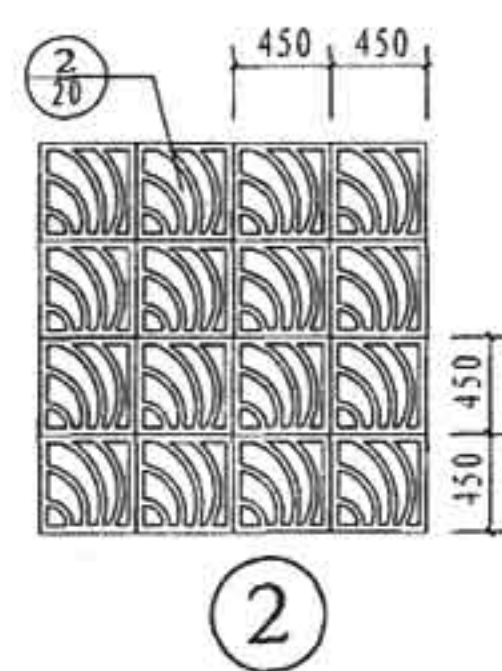
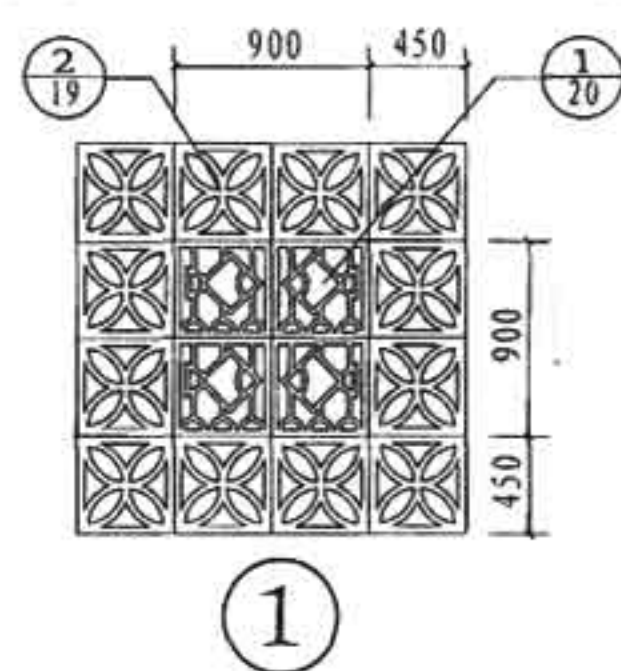
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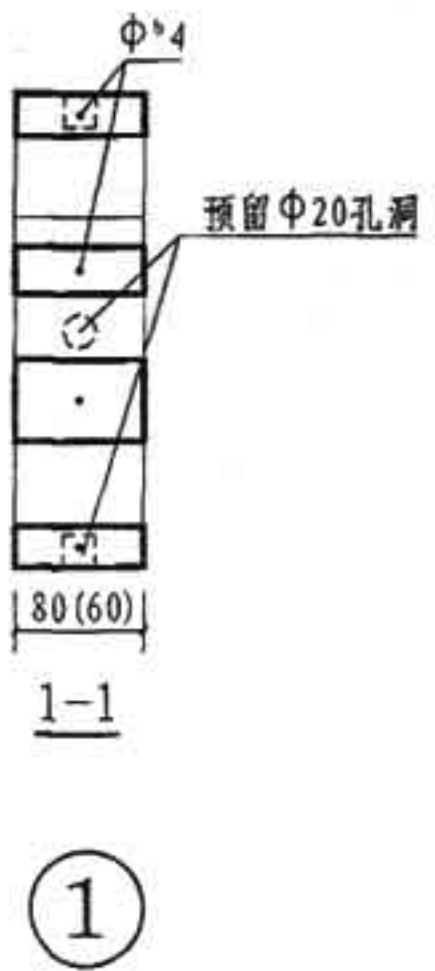
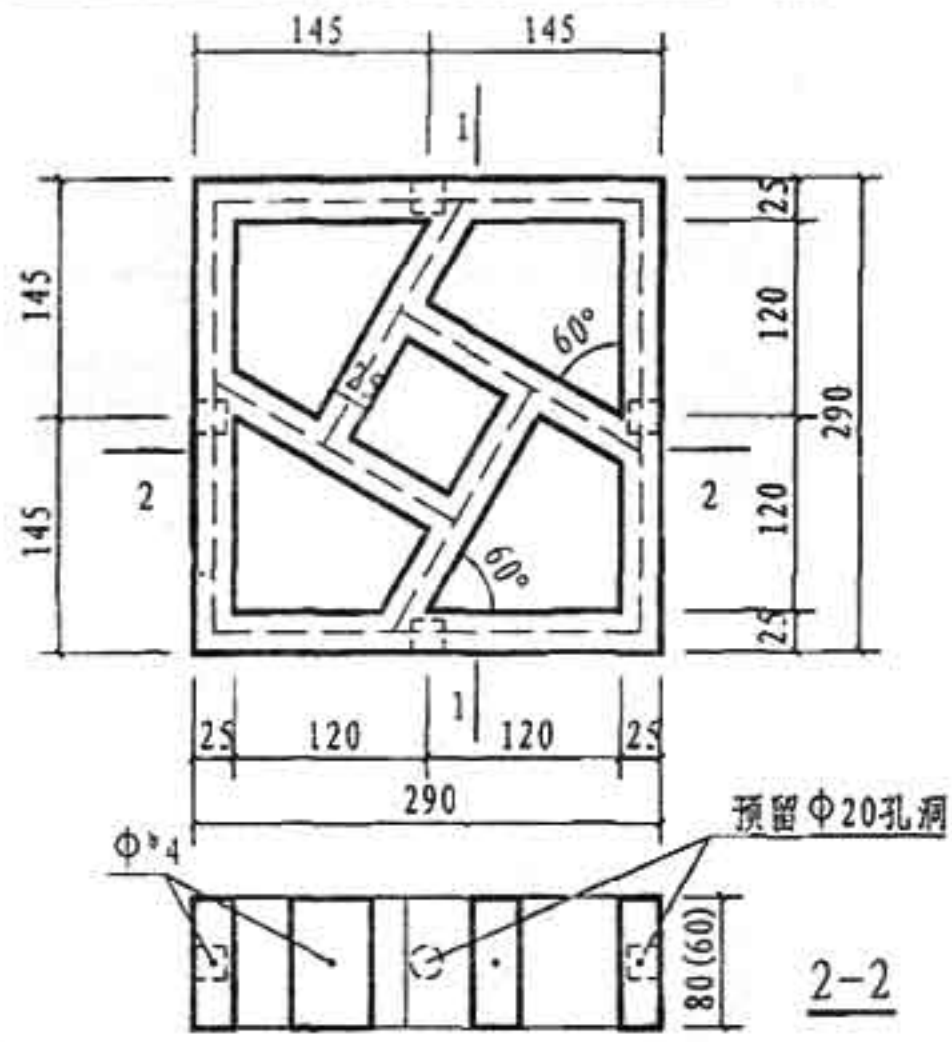
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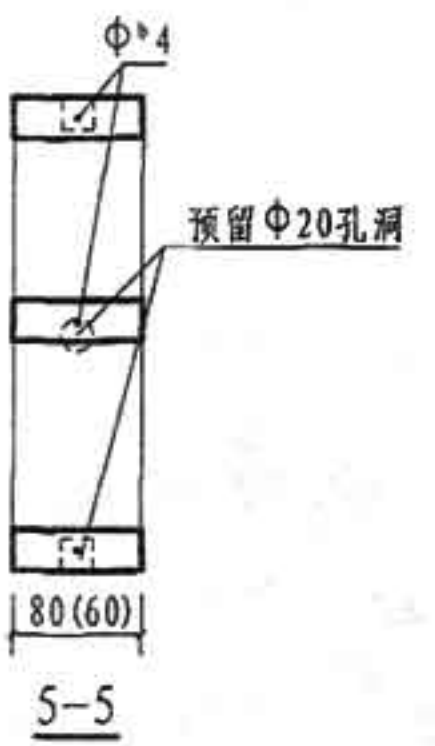
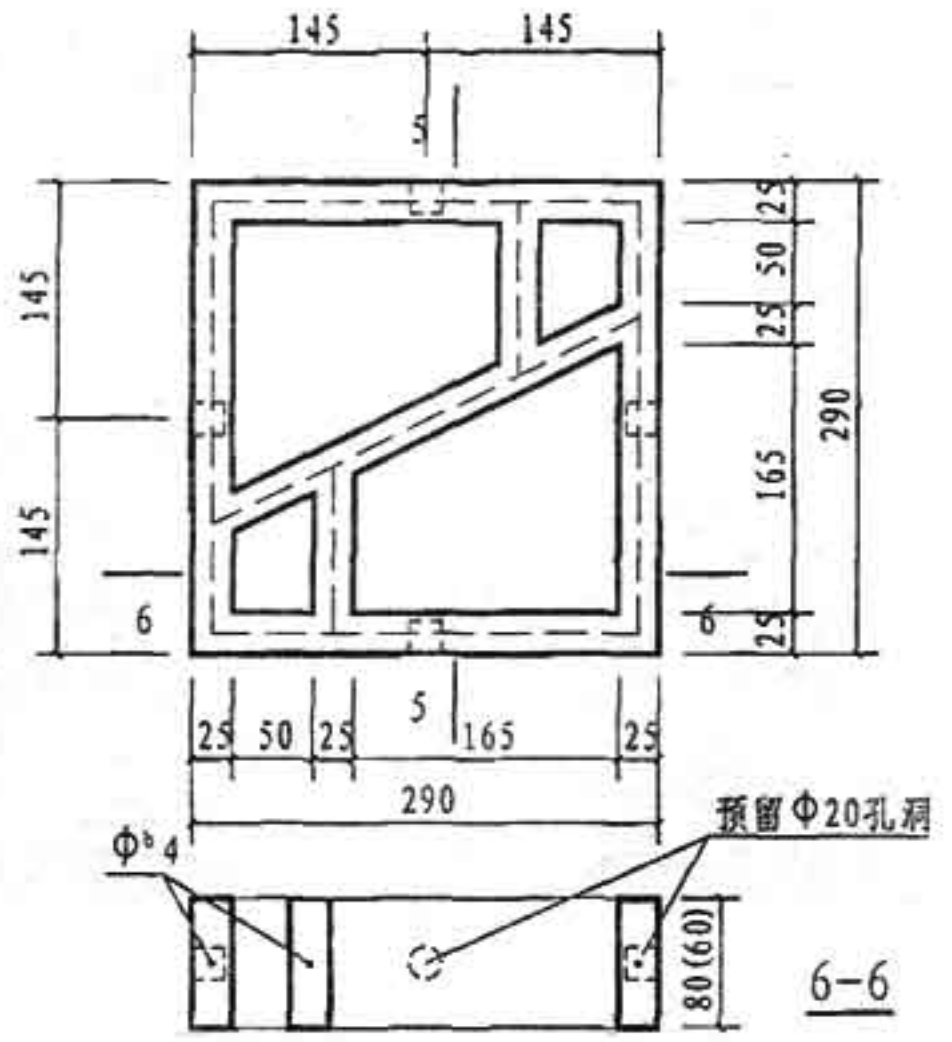
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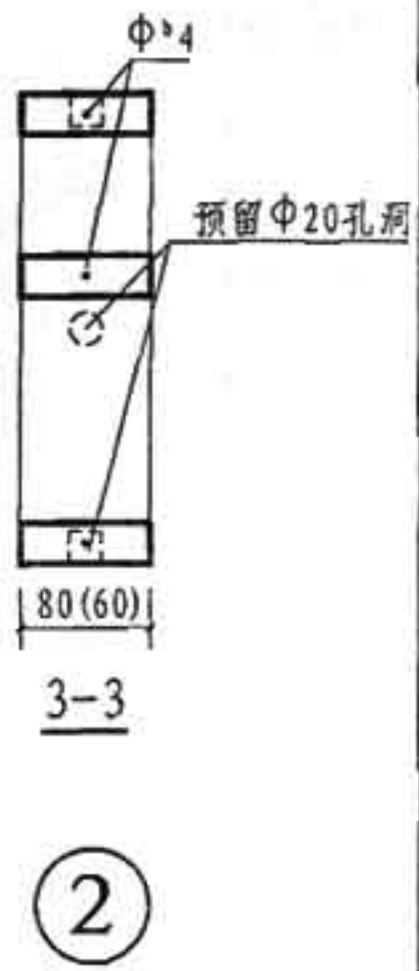
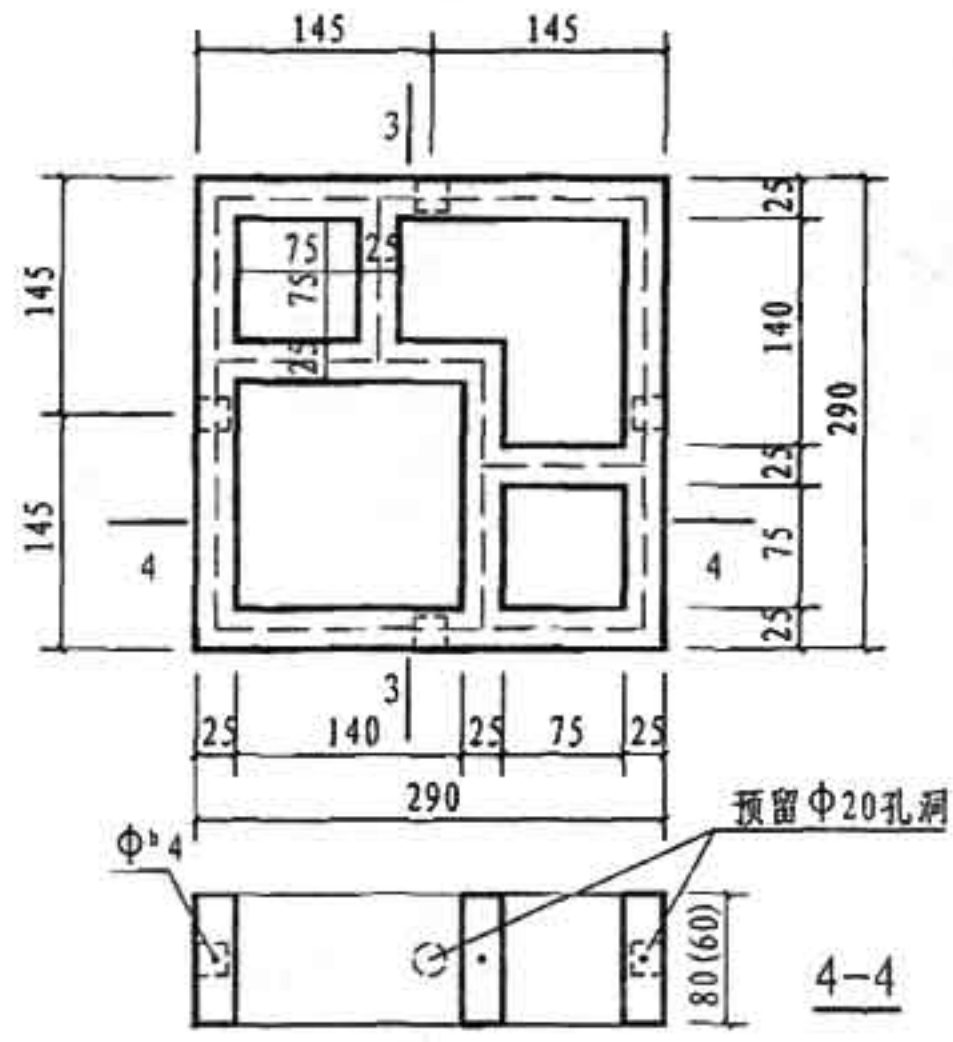
校对	车艳娜	陈志敏	陈志敏
设计	陈志敏	陈志敏	陈志敏
绘图	陈志敏	陈志敏	陈志敏



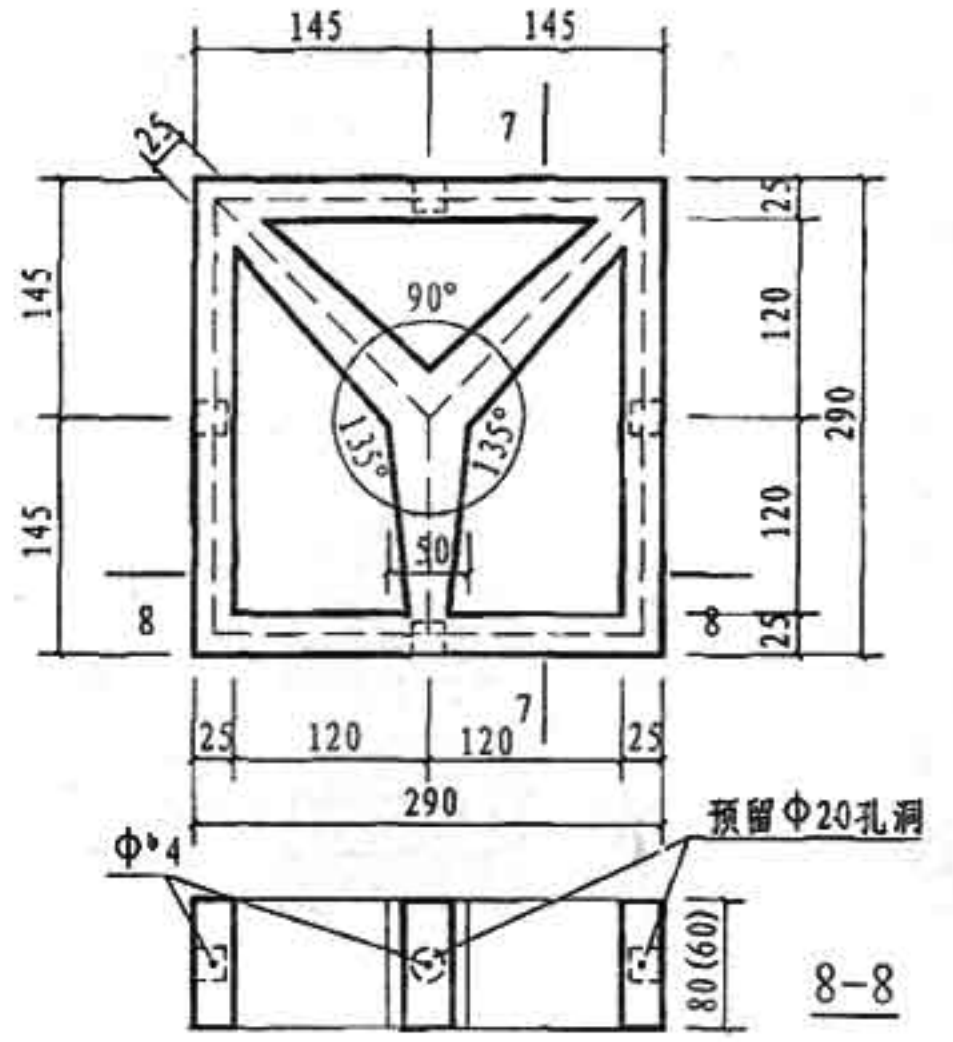
①



③



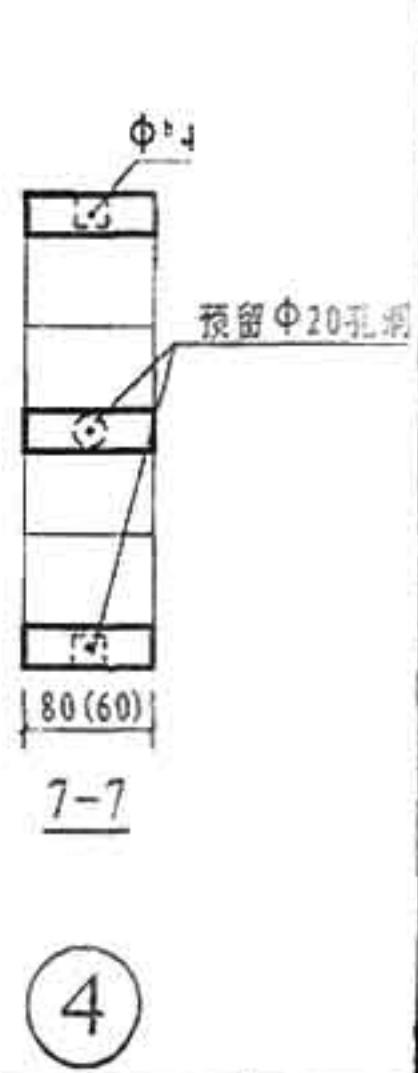
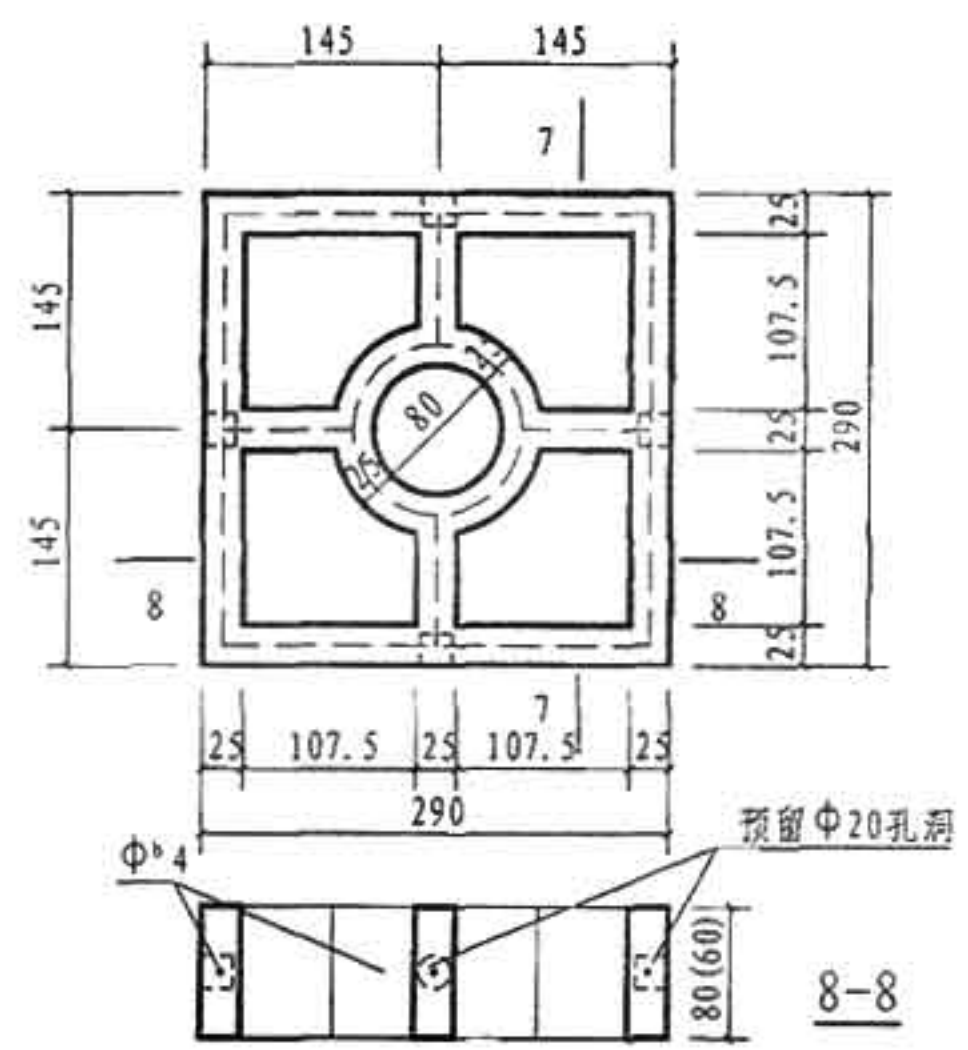
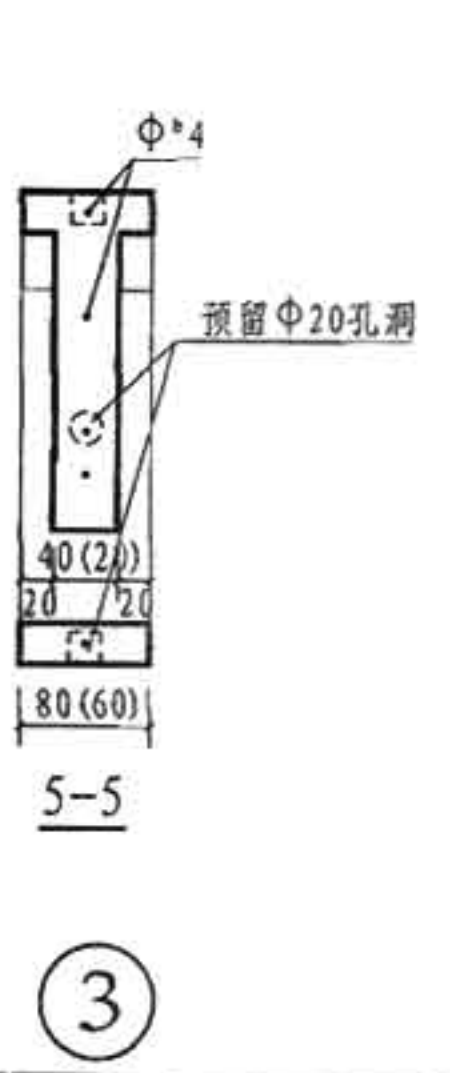
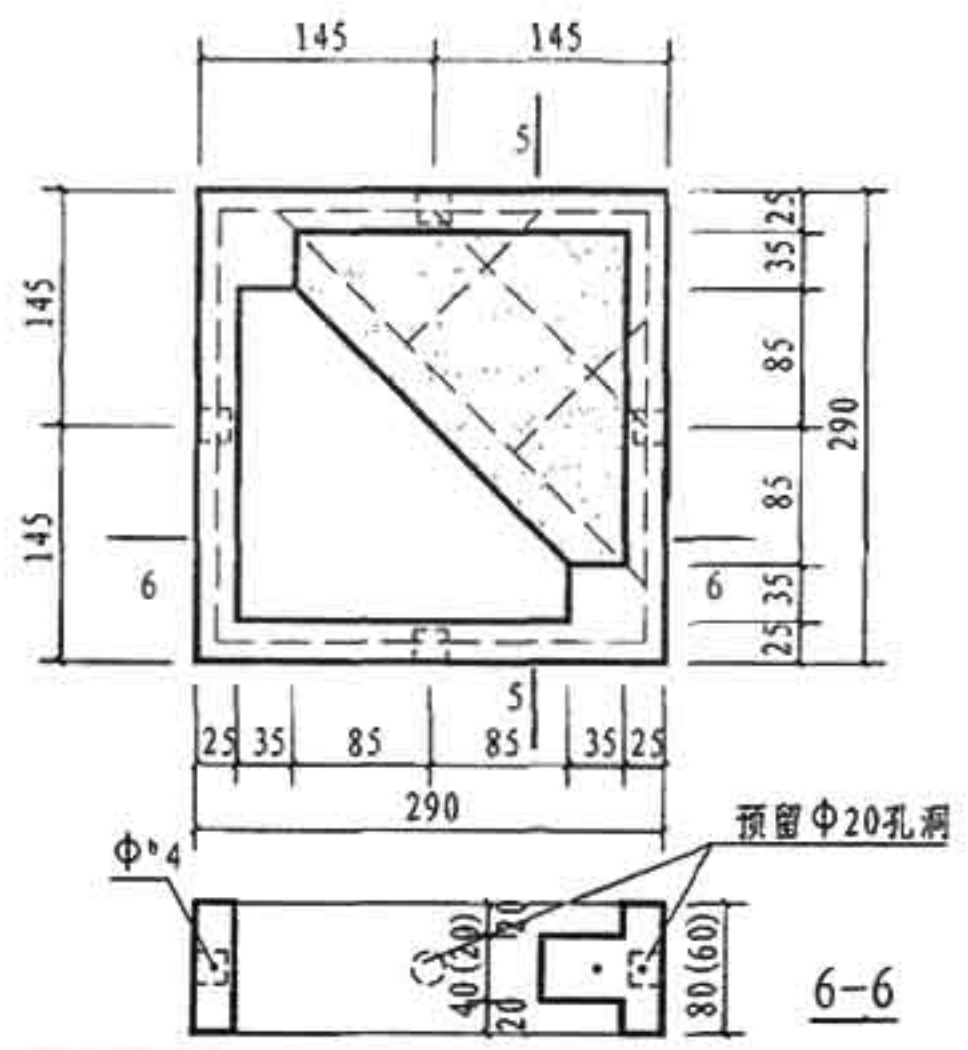
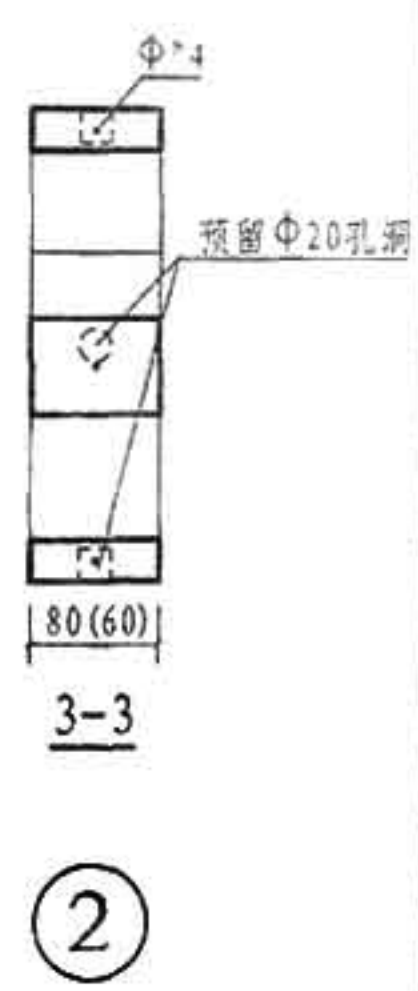
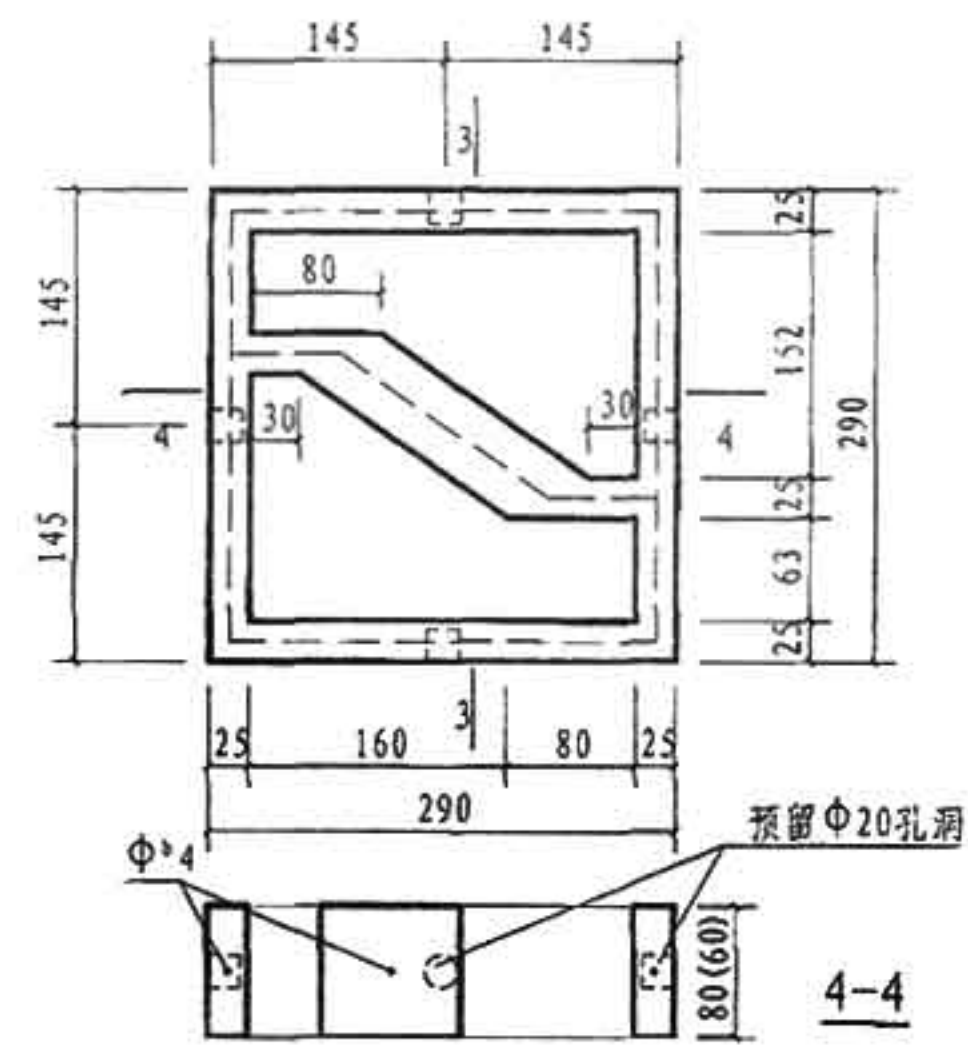
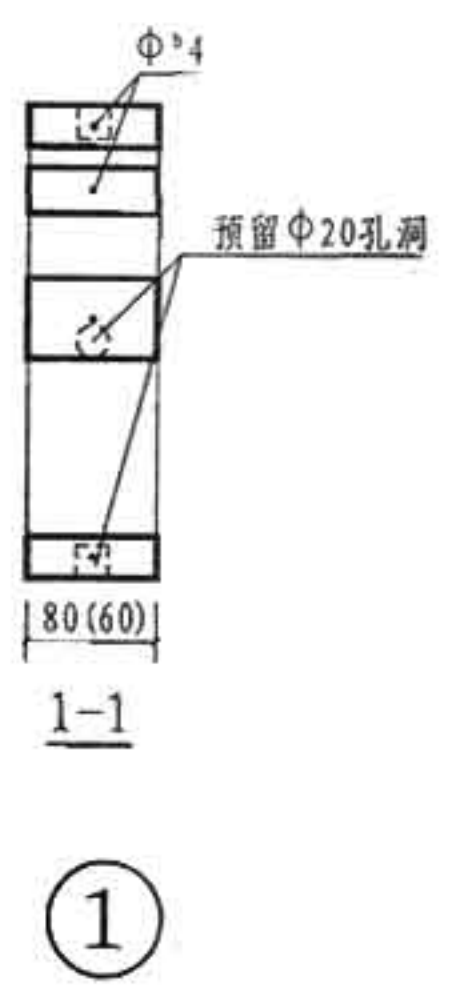
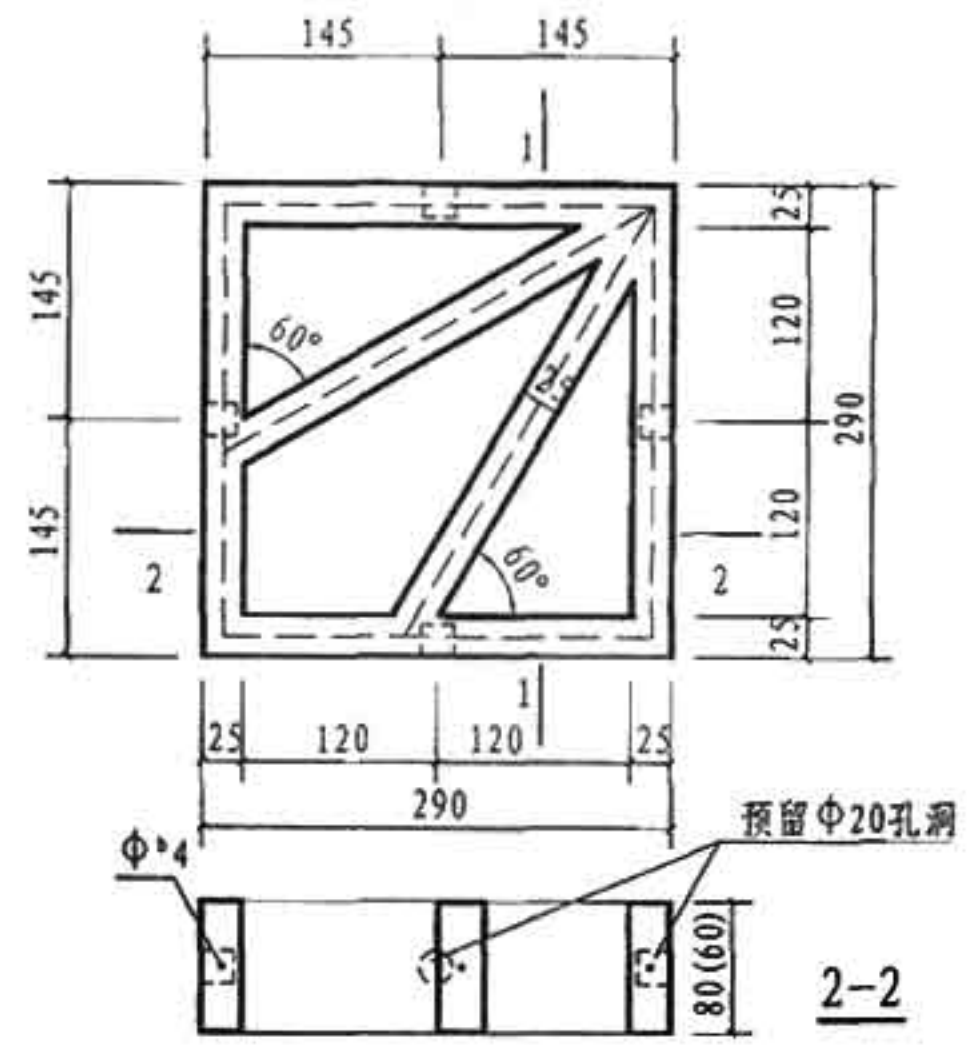
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④

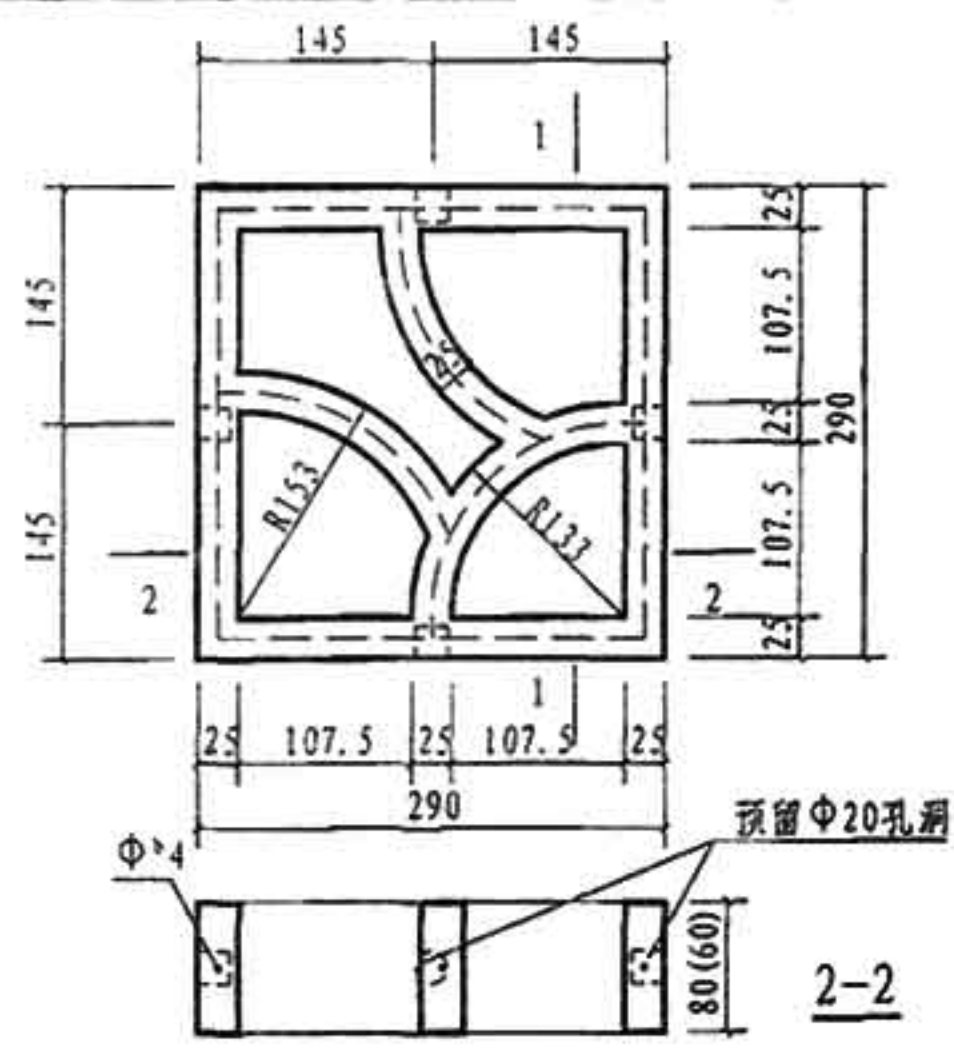
混凝土漏花详图一(300x300)

校	对	车	范	陈	志	敬	陈	志	敬
校	对	车	范	陈	志	敬	陈	志	敬
校	对	车	范	陈	志	敬	陈	志	敬

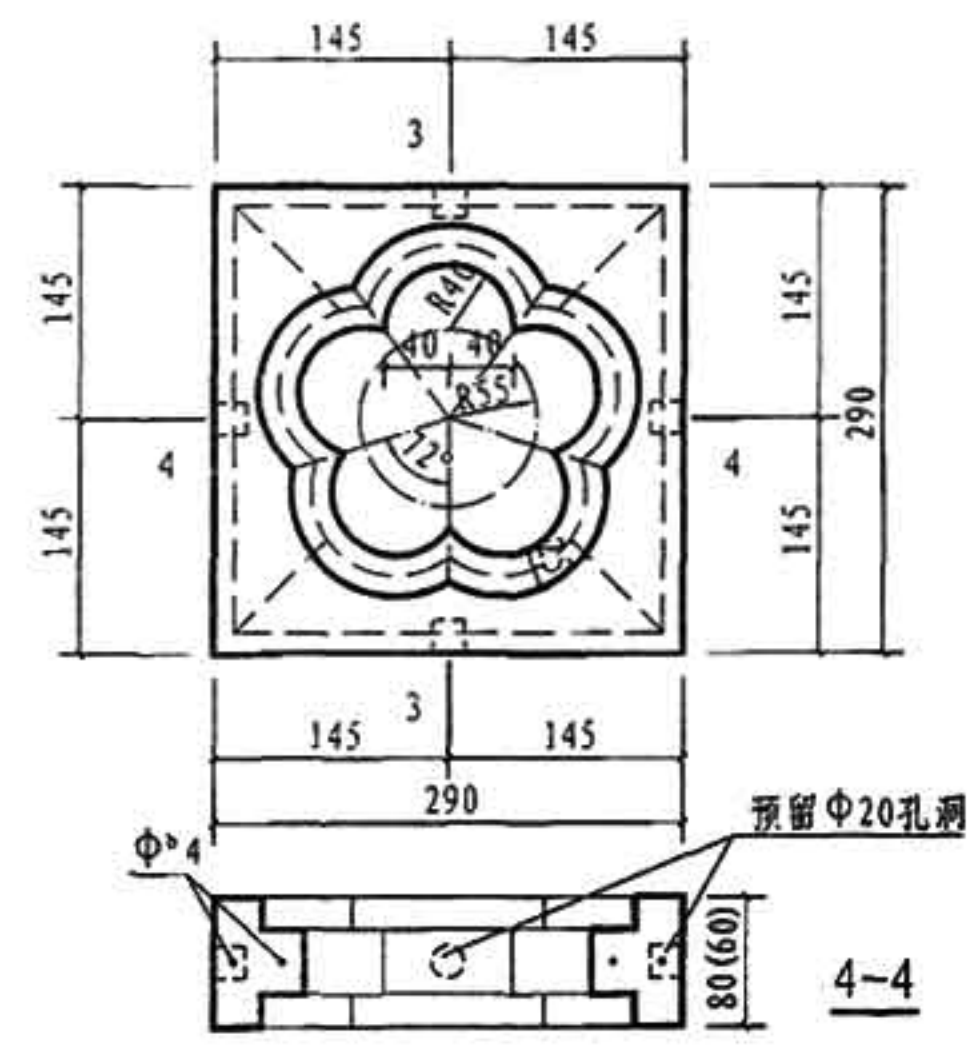


混凝土漏花详图二 (300x300)

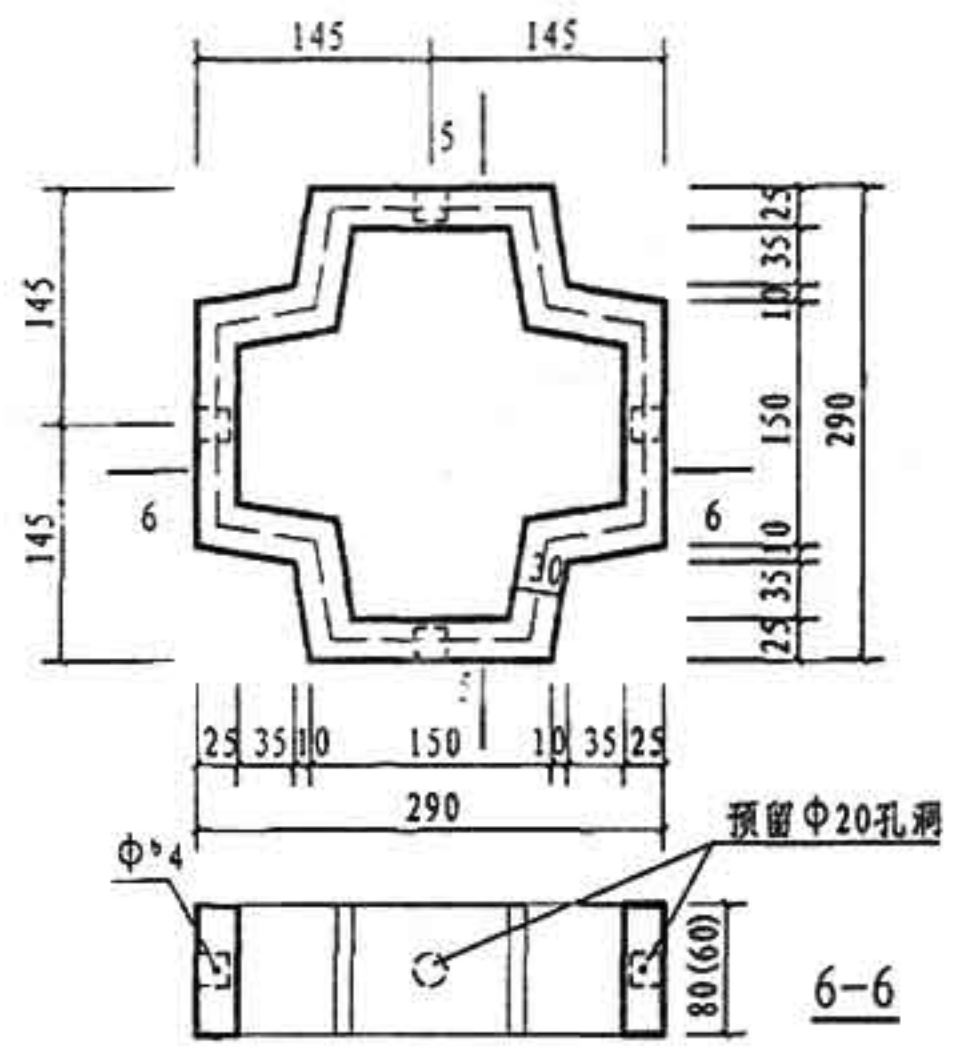
校对	车艳娟	陈志敏	陈志敏
设计	陈志敏	陈志敏	陈志敏
绘图	陈志敏	陈志敏	陈志敏



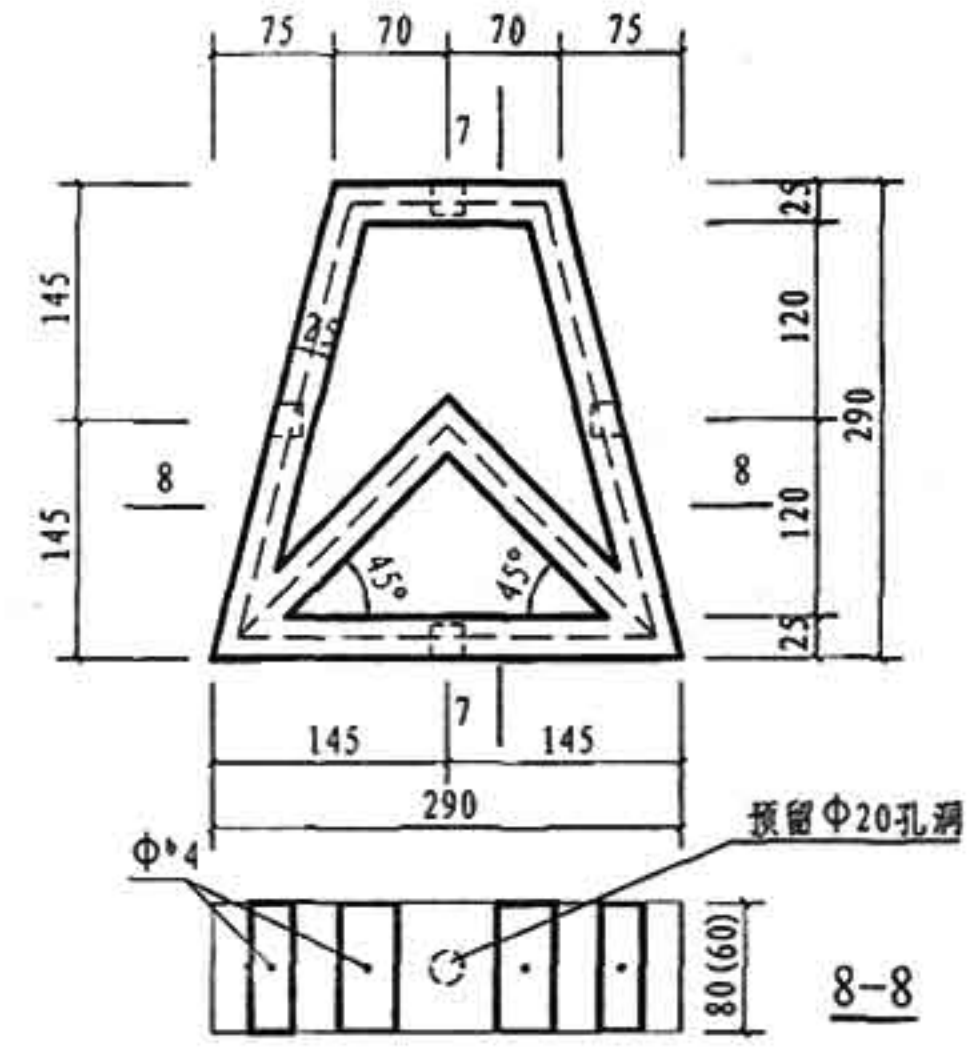
①



②



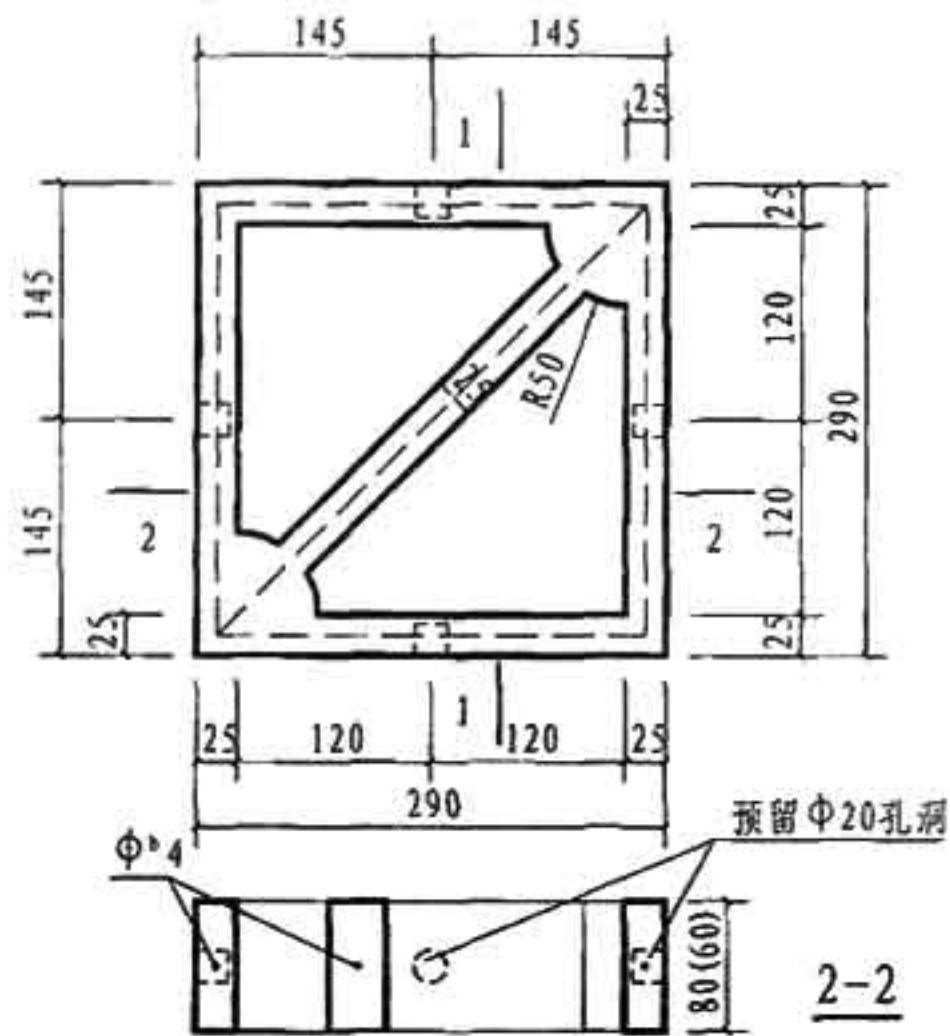
③



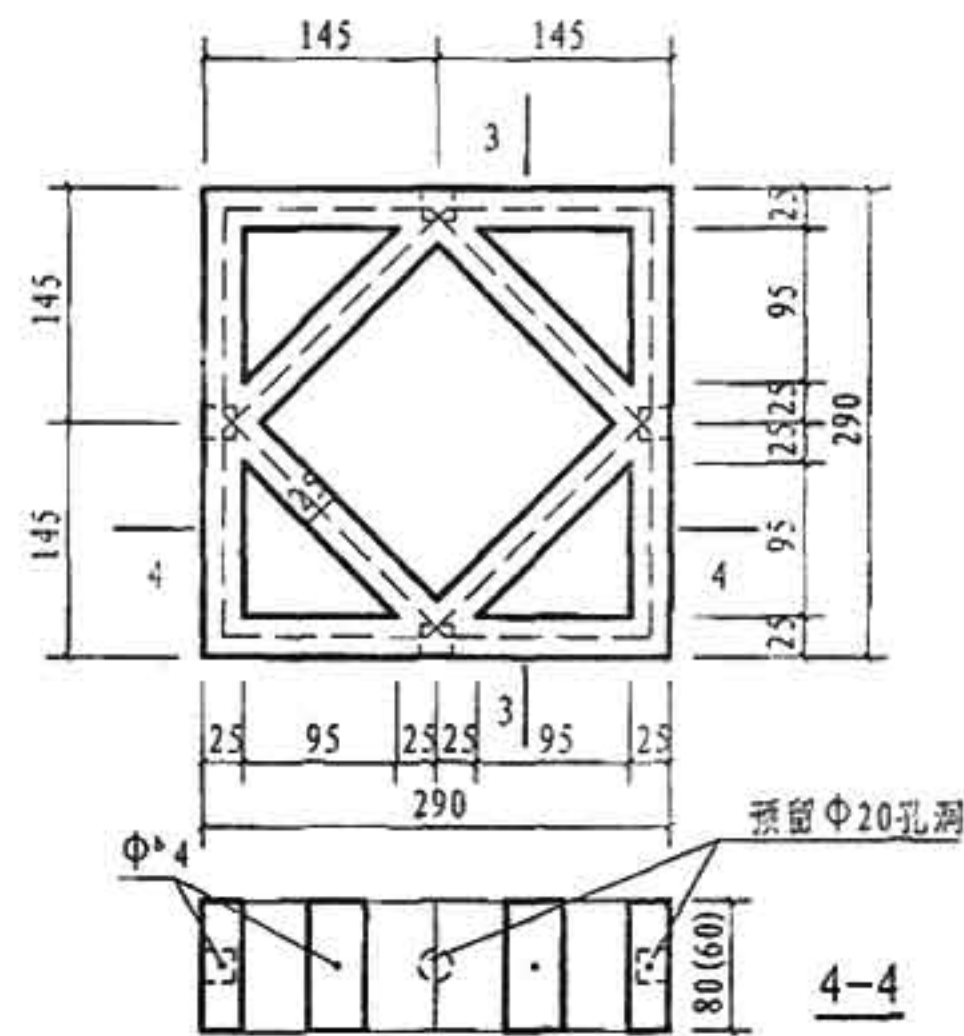
④

混凝土漏花详图三 (300x300)

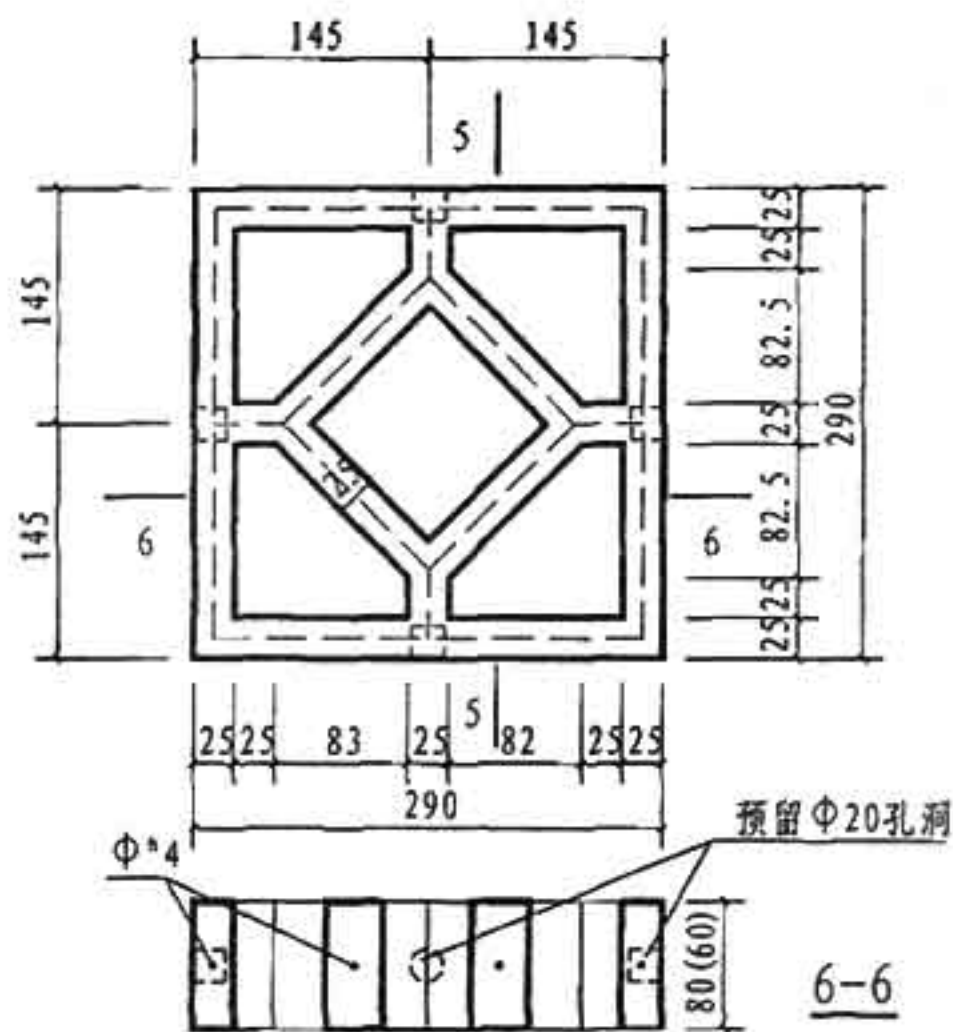
图集号	11ZJ951
页号	14



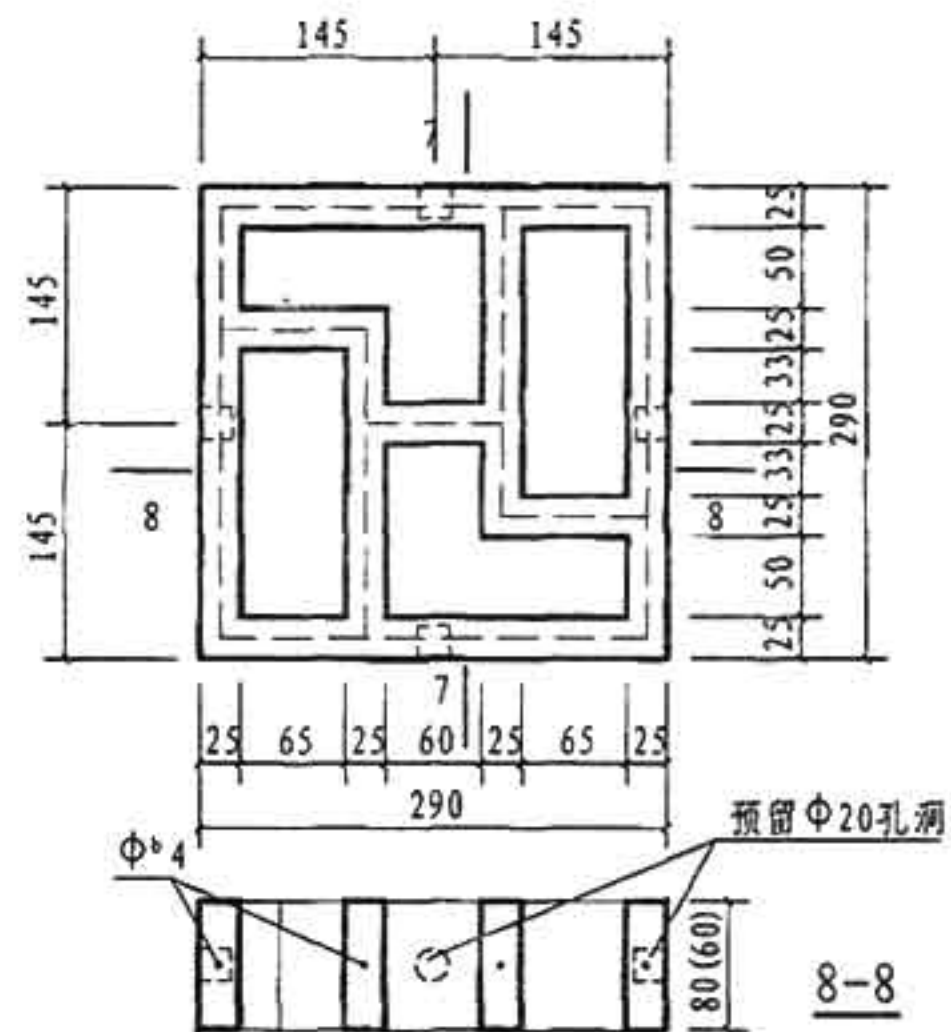
①



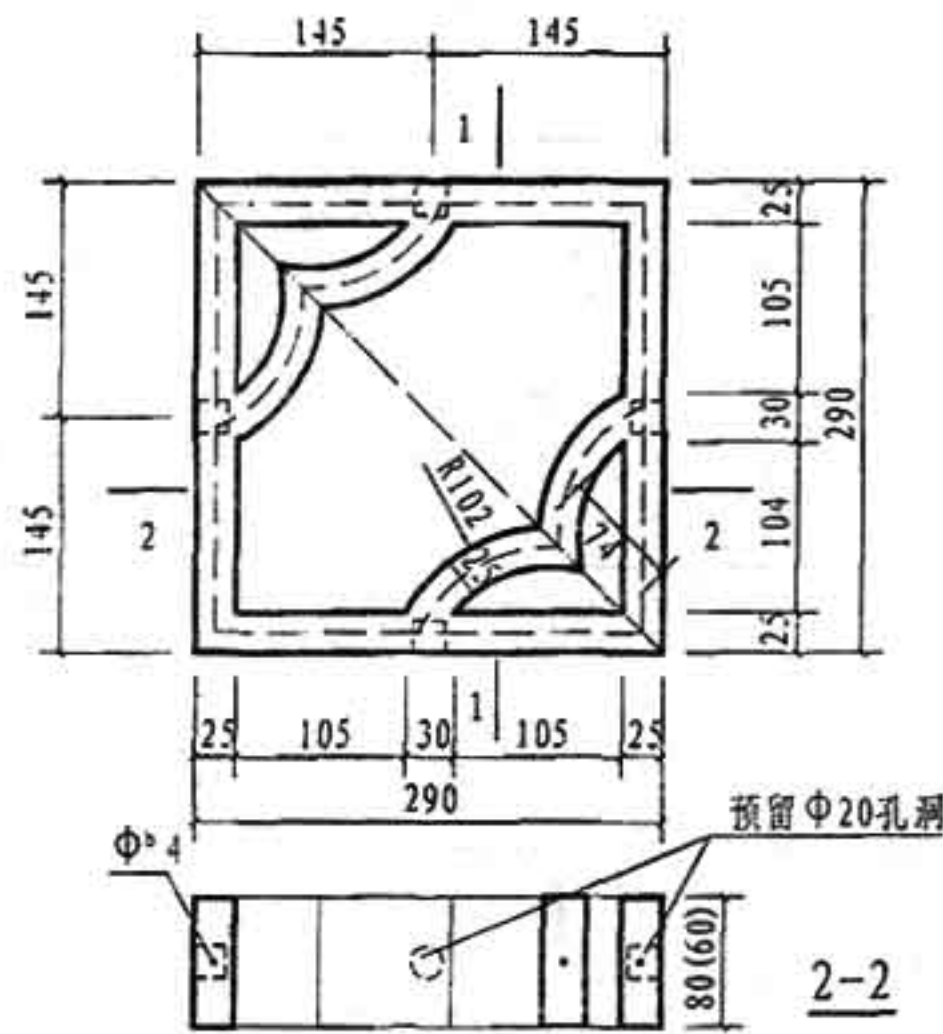
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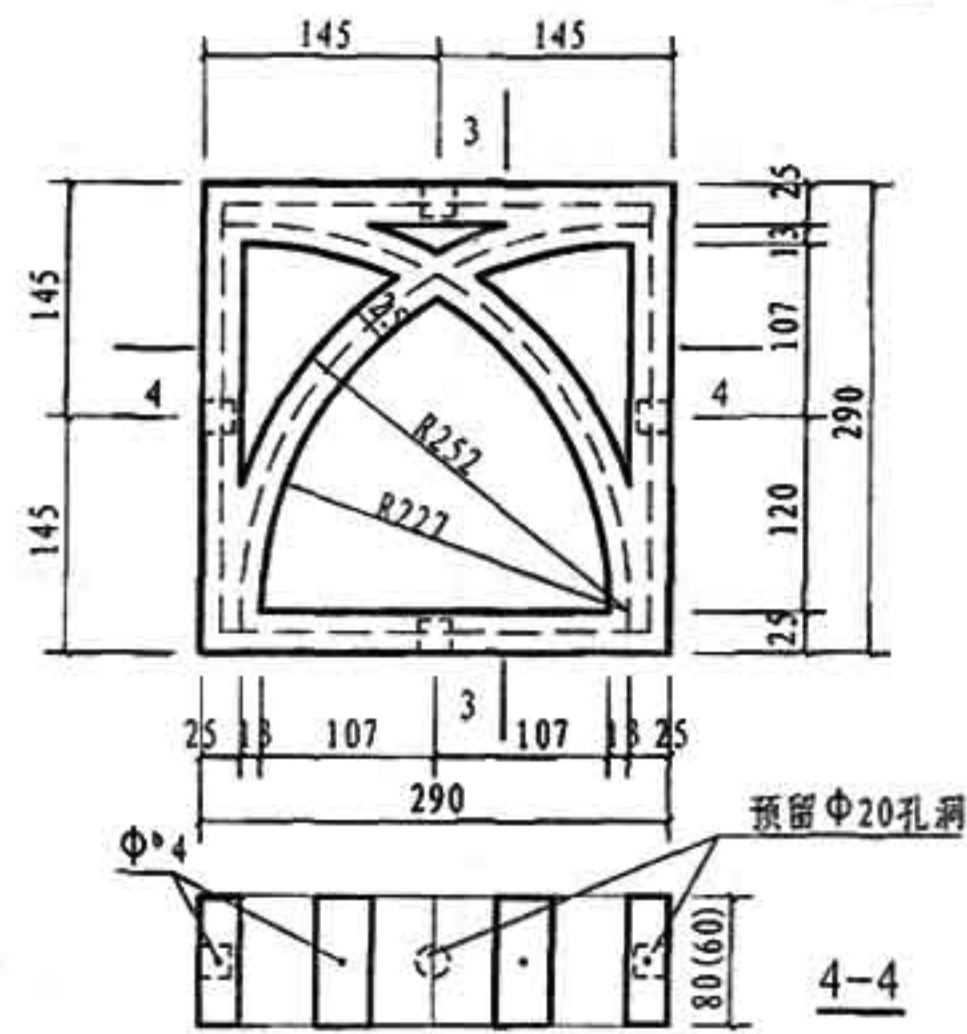
③



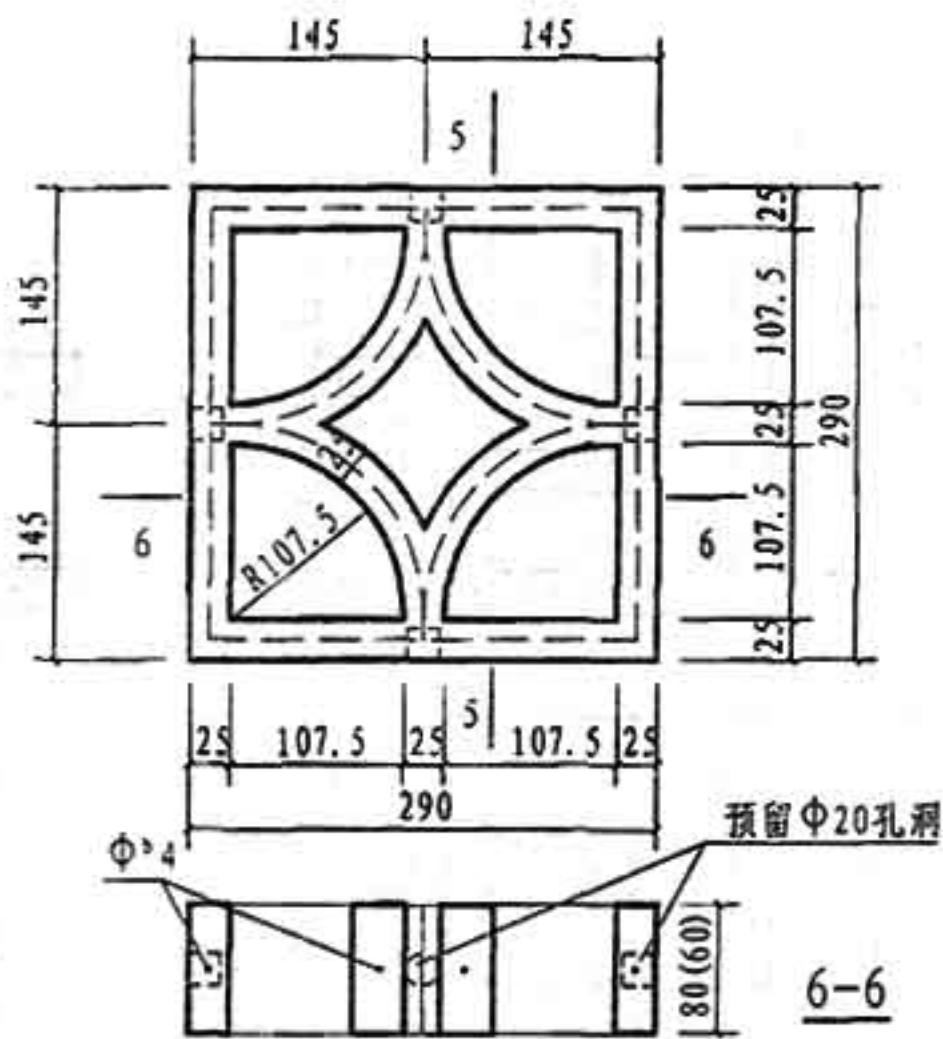
④



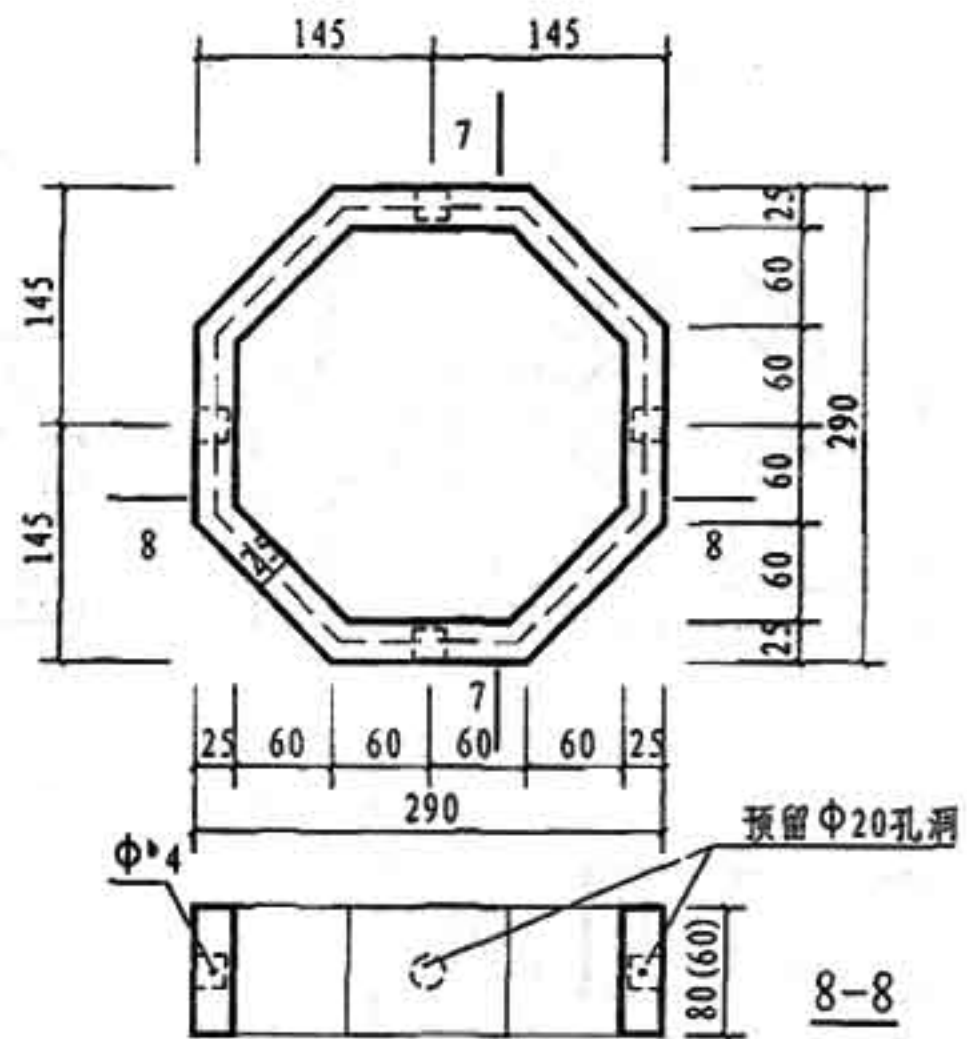
①



②

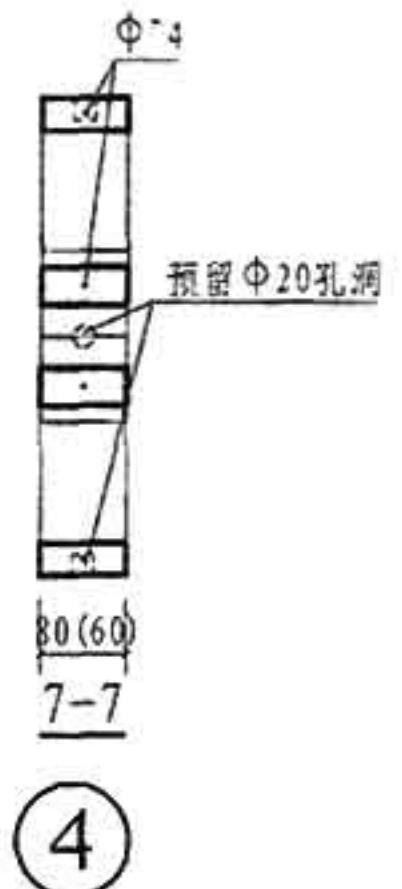
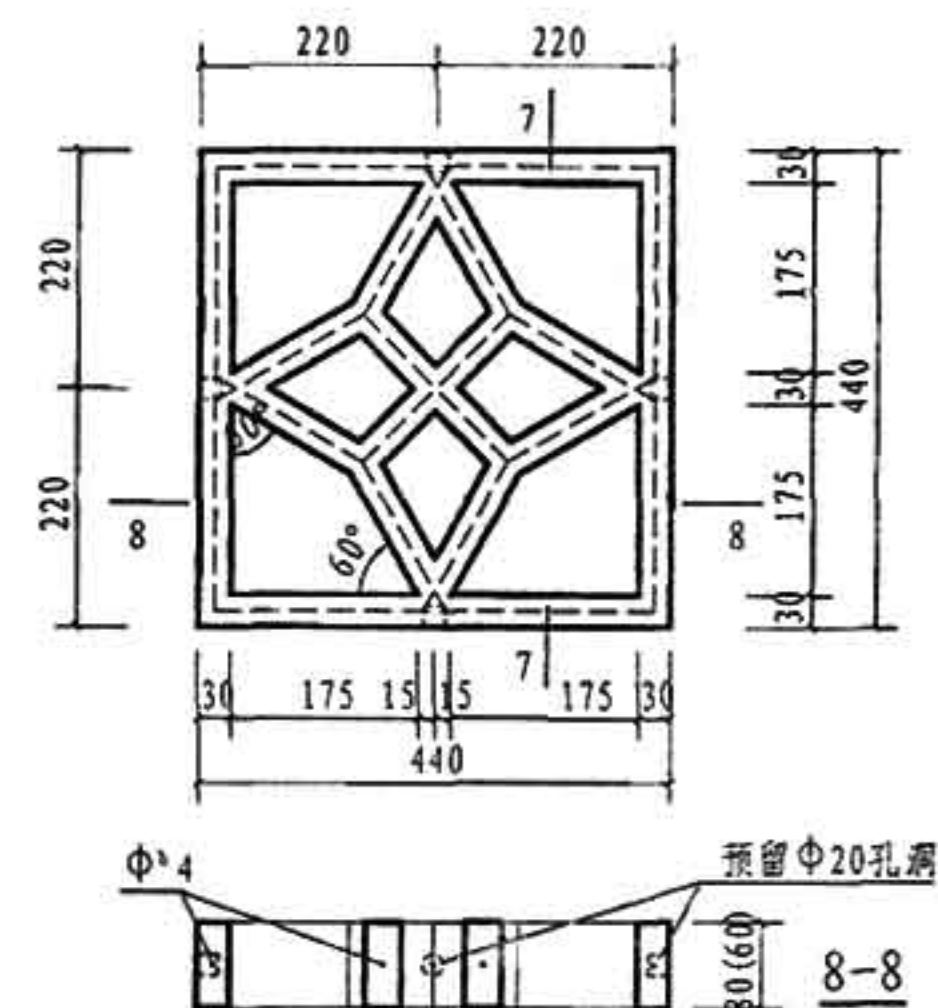
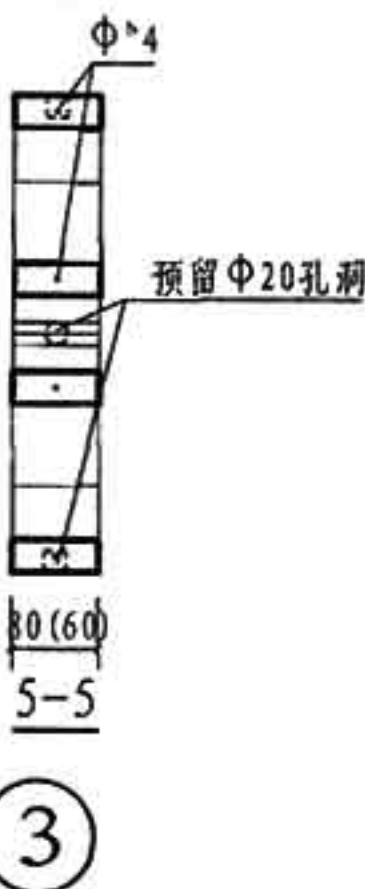
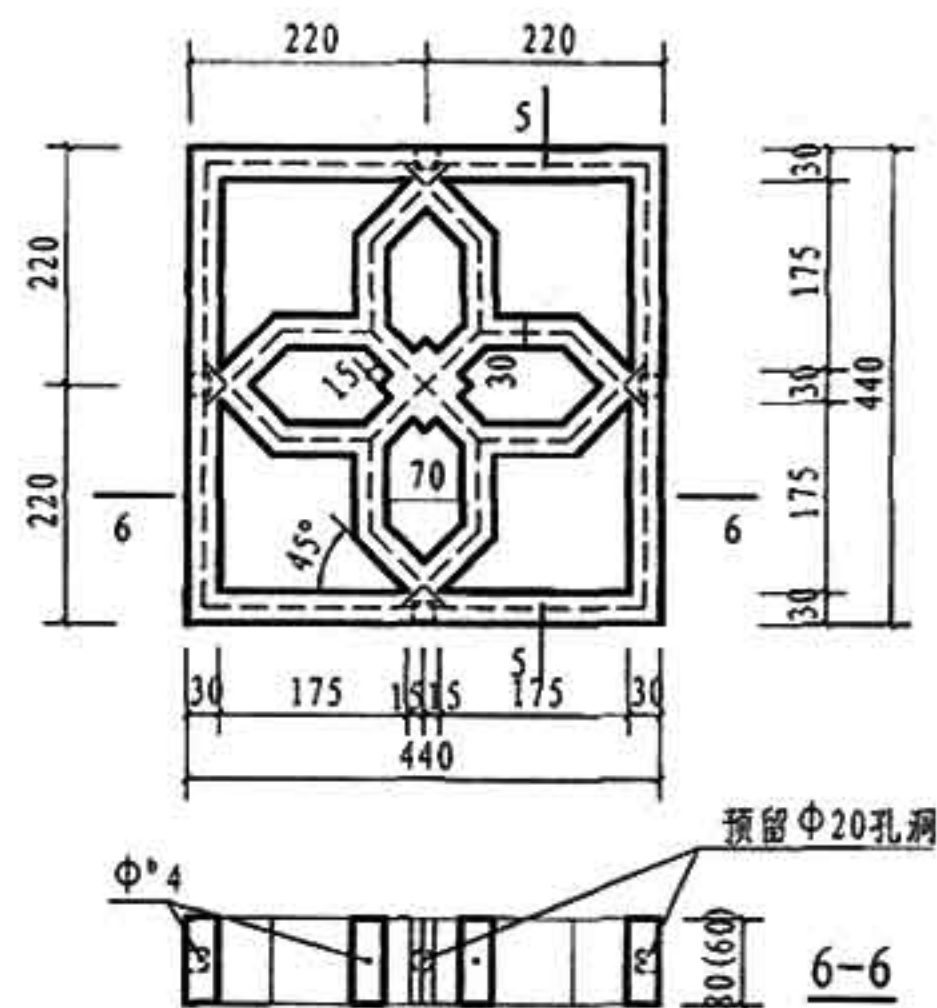
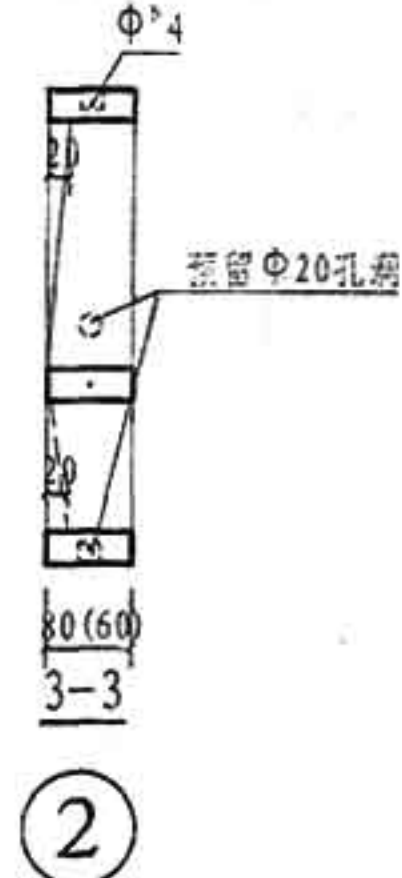
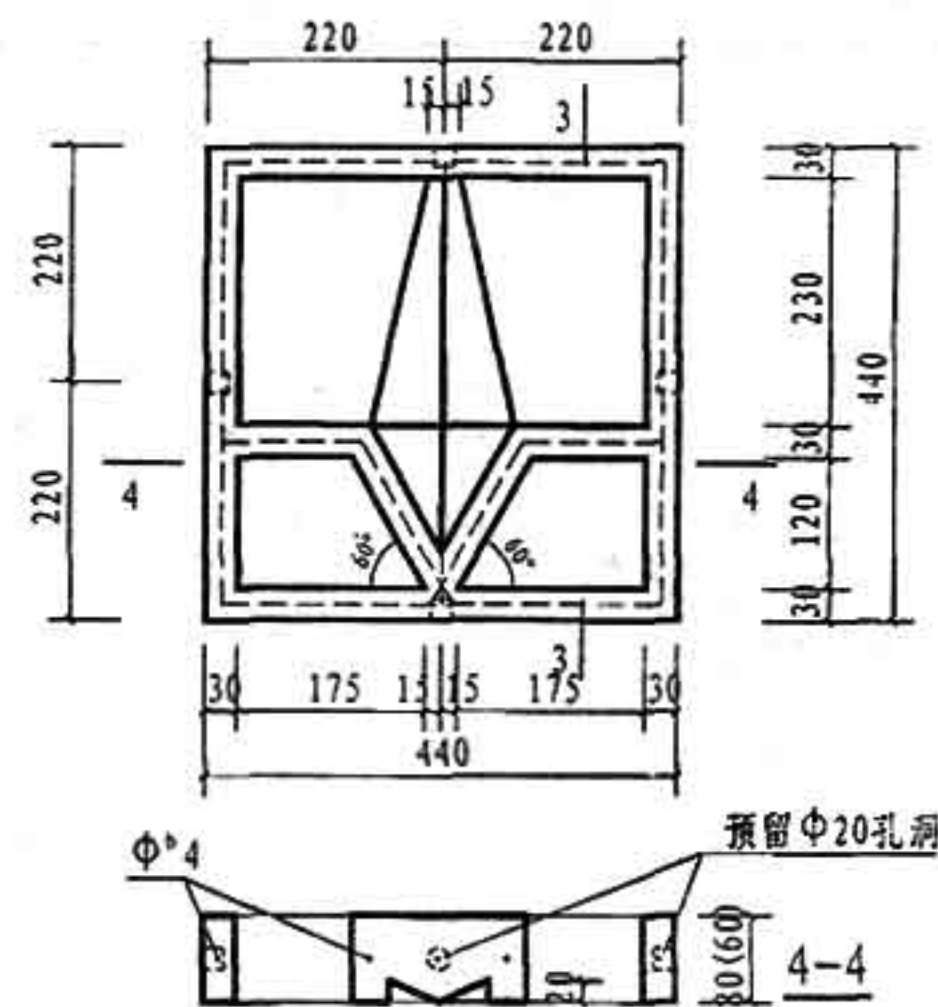
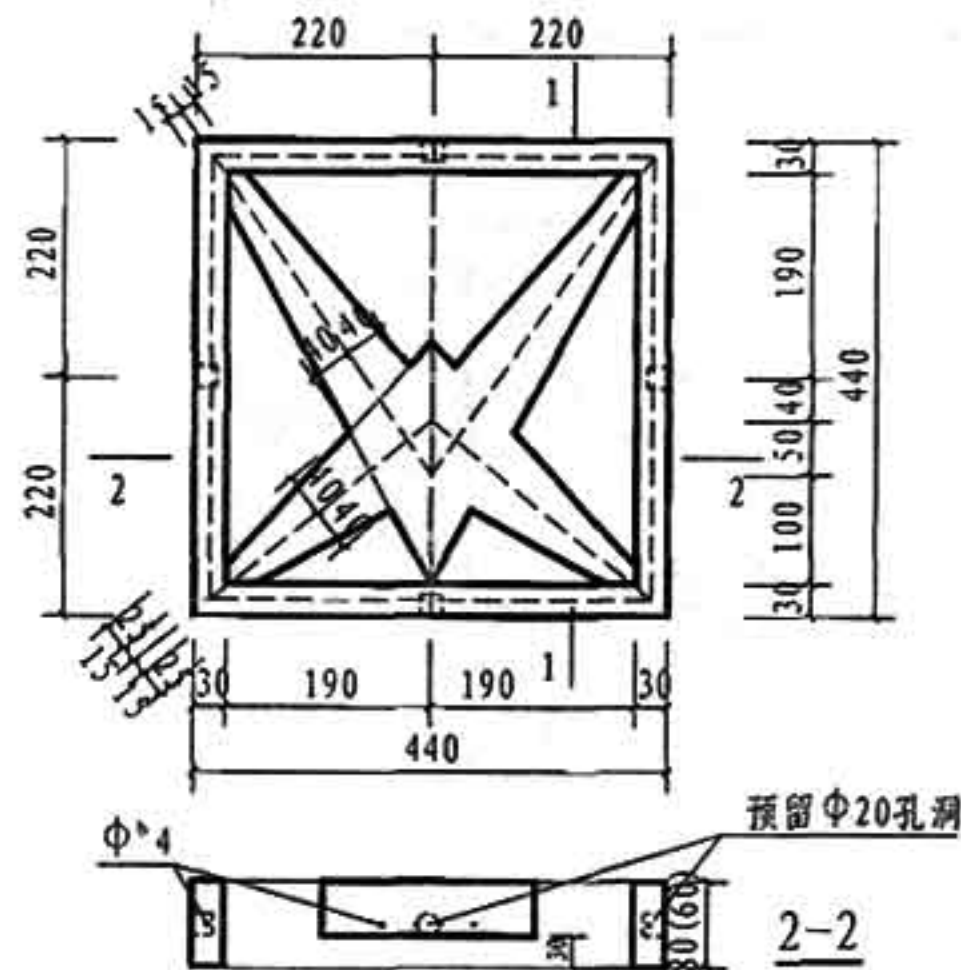


③

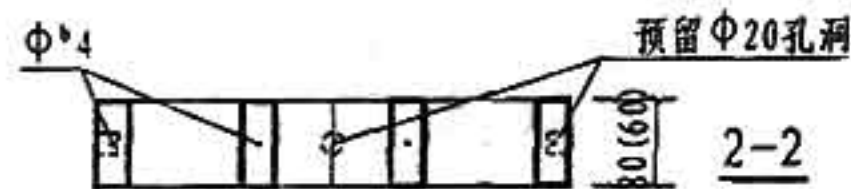
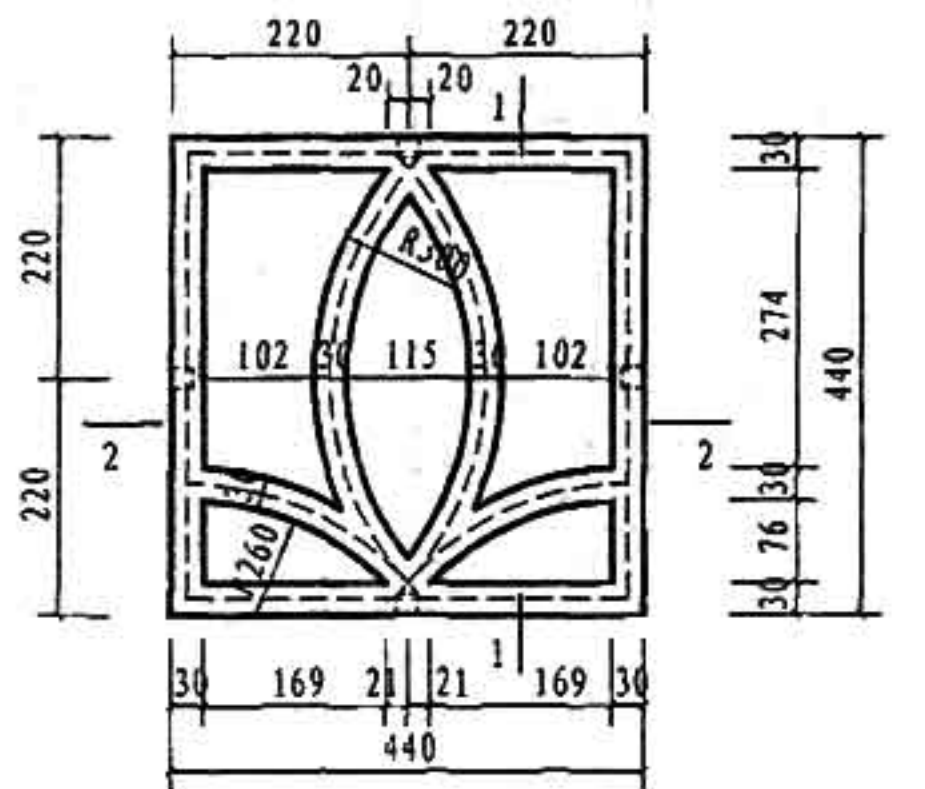


④

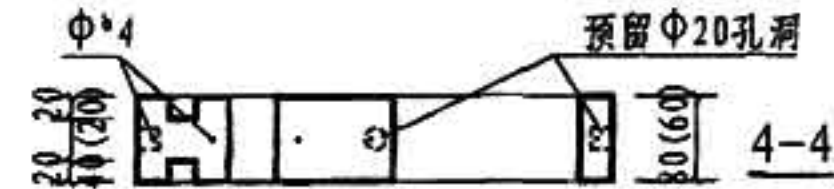
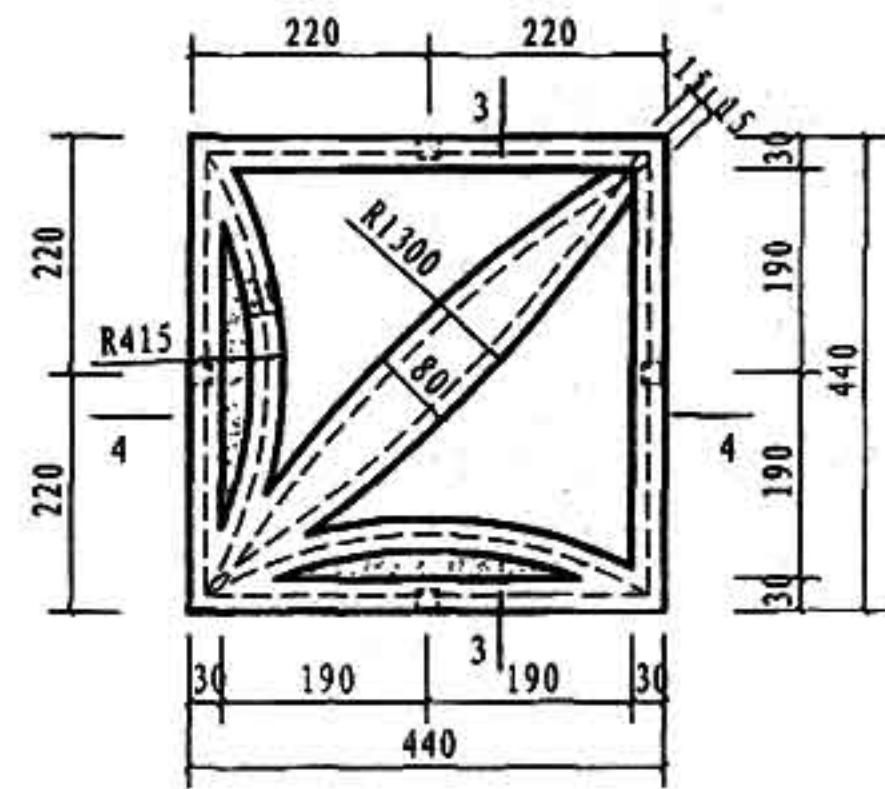
校对 车艳娜 陈志敏
设计 陈志敏
绘图 陈志敏



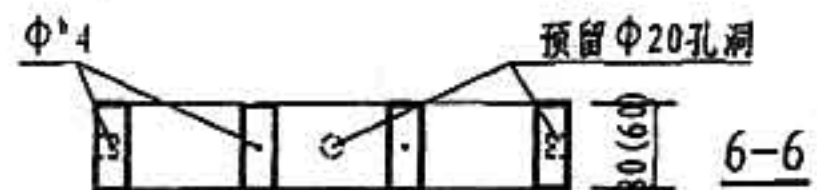
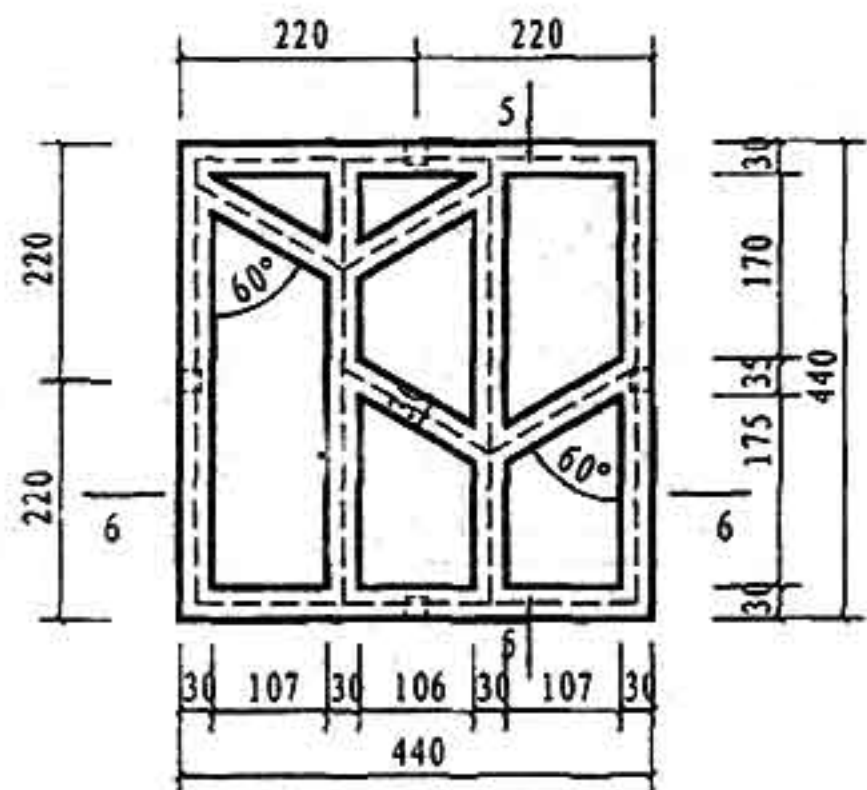
校对
 设计
 绘图
 车艳娜
 陈志敏
 陈志敏



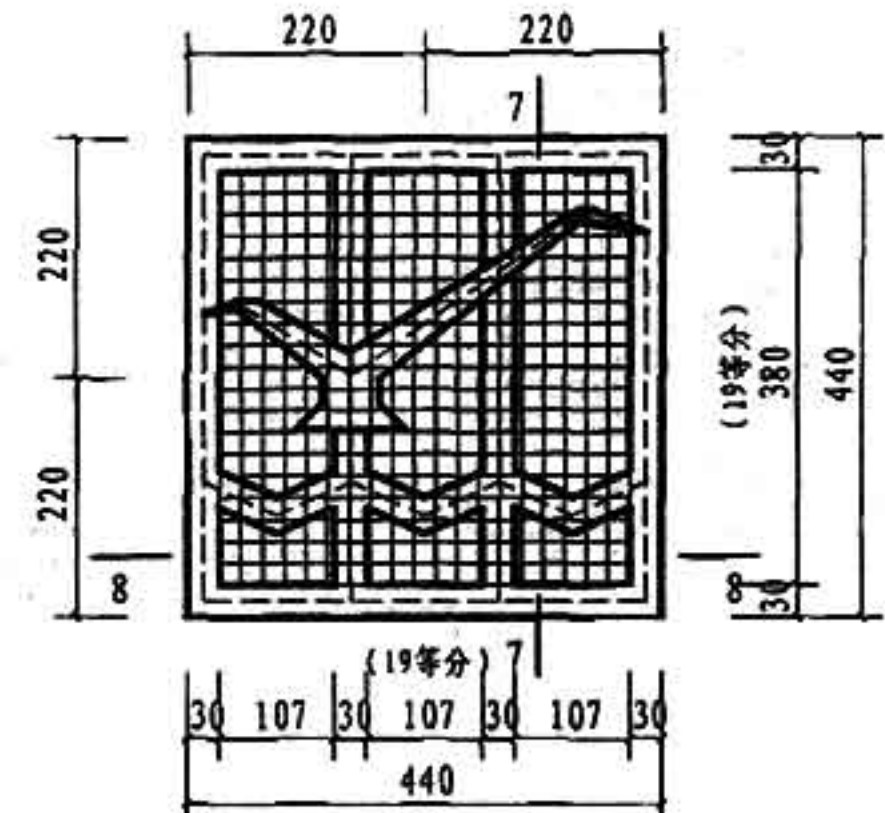
①



②

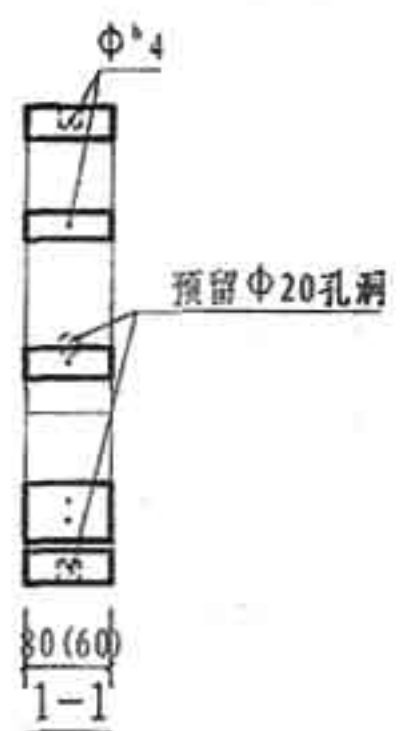
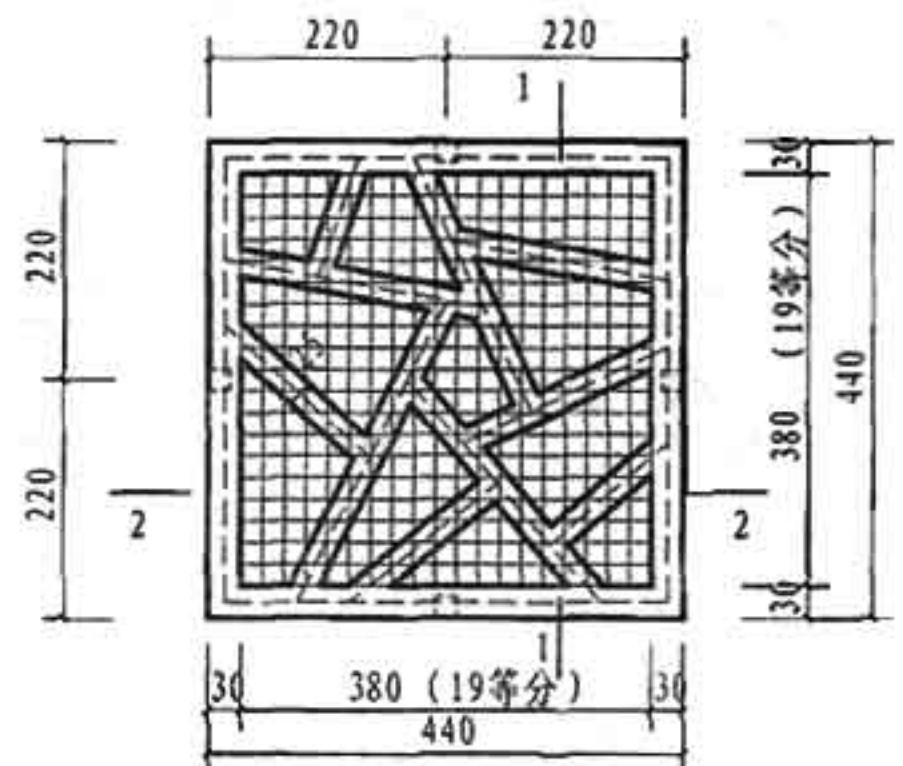


③

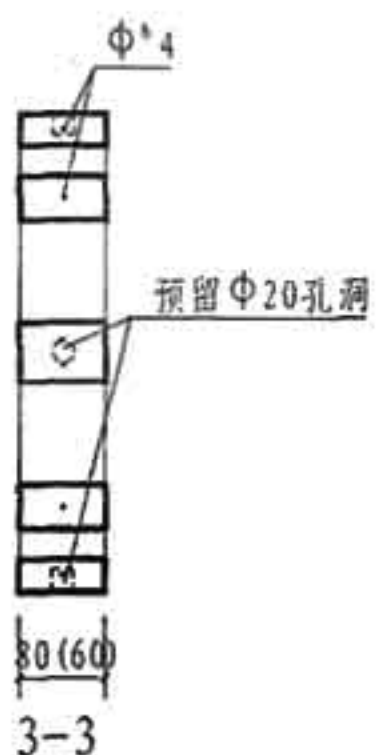
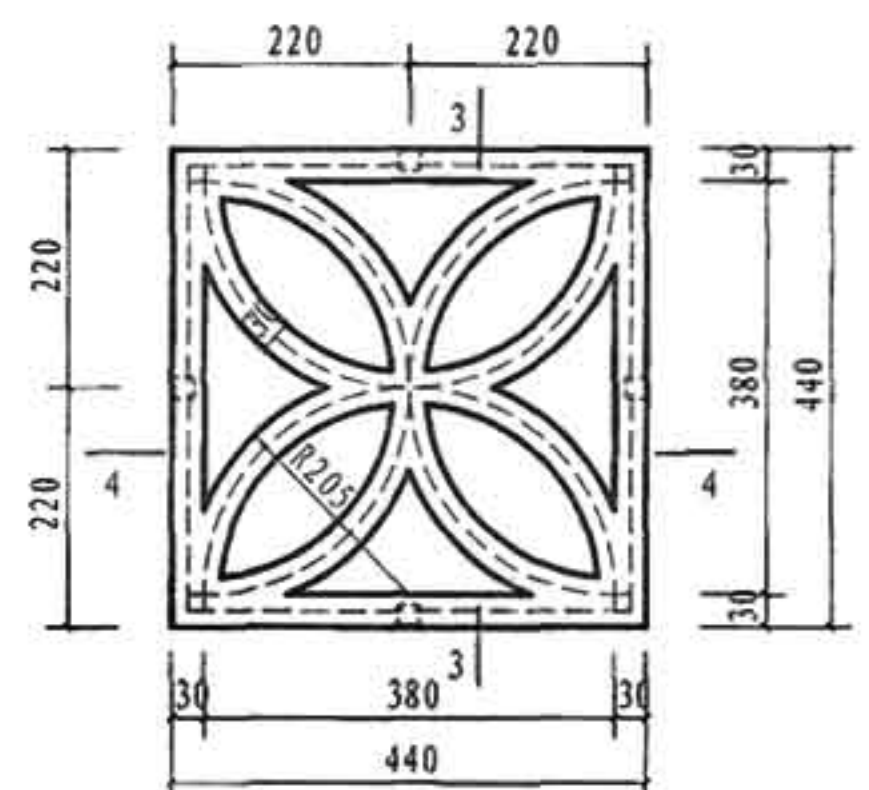
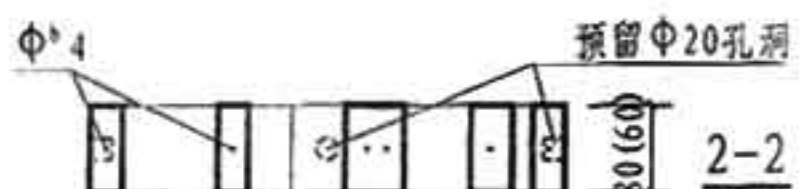


④

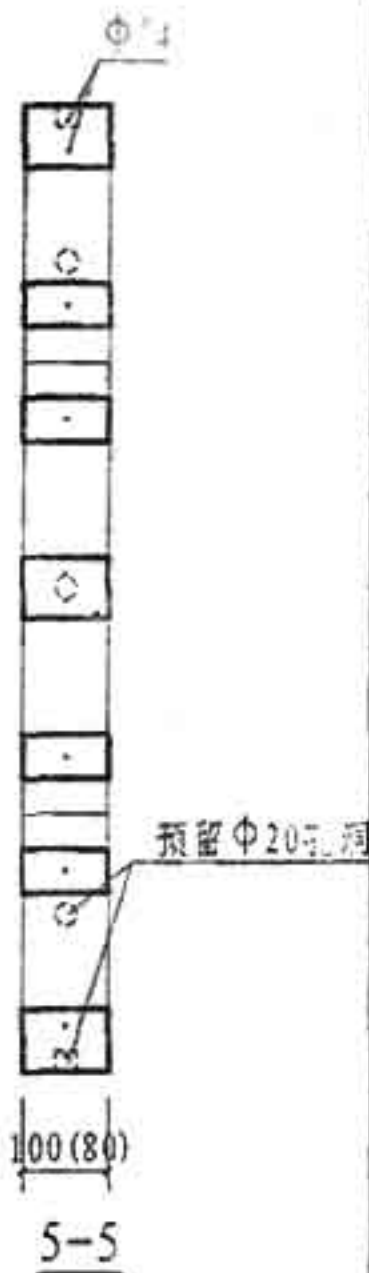
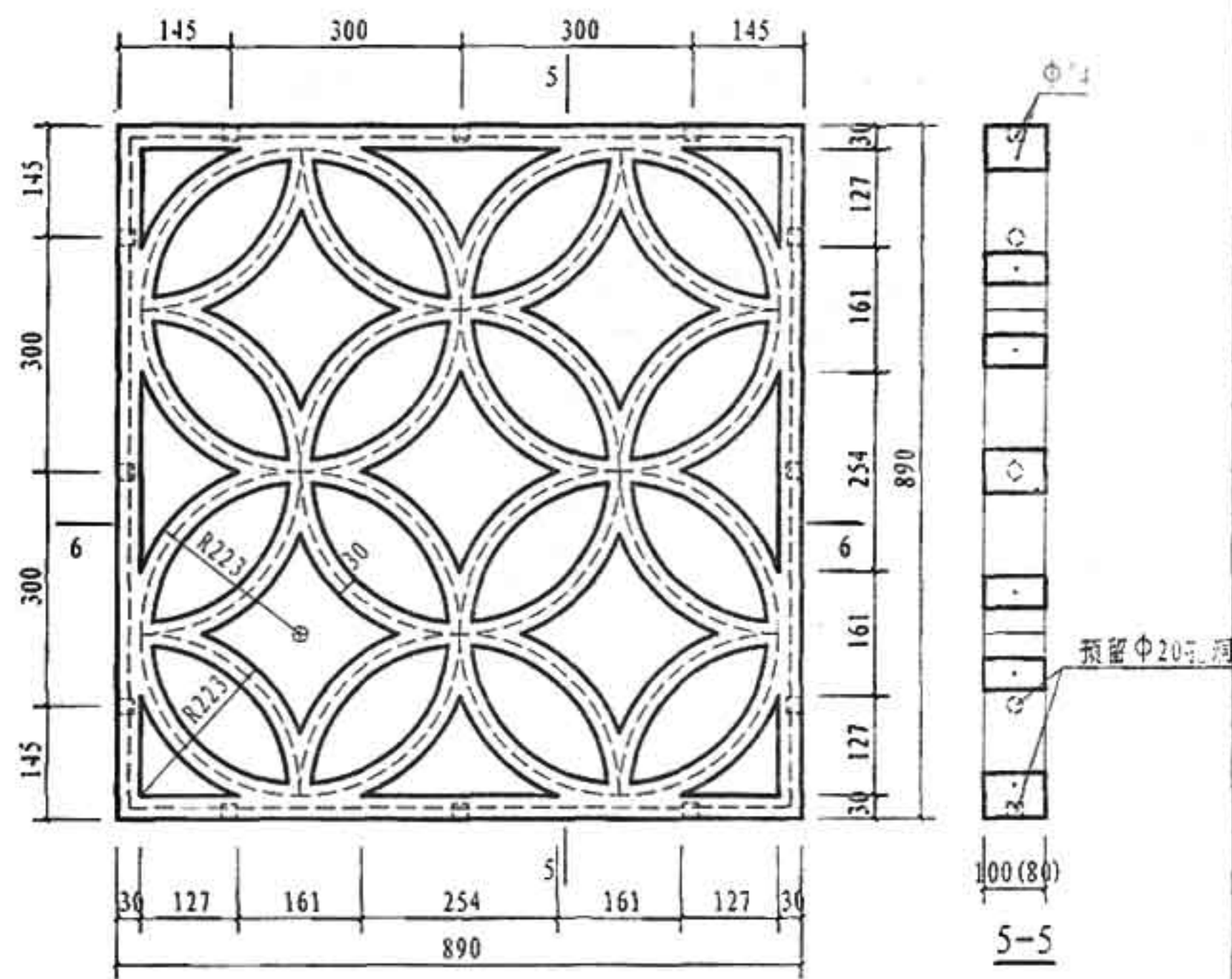
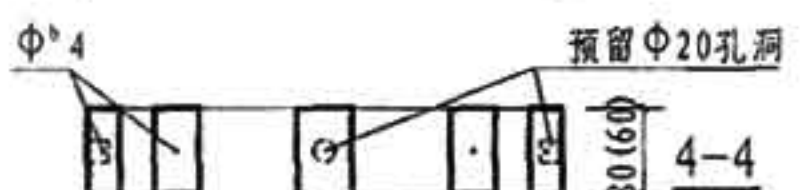
混凝土漏花详图七 (450x450)



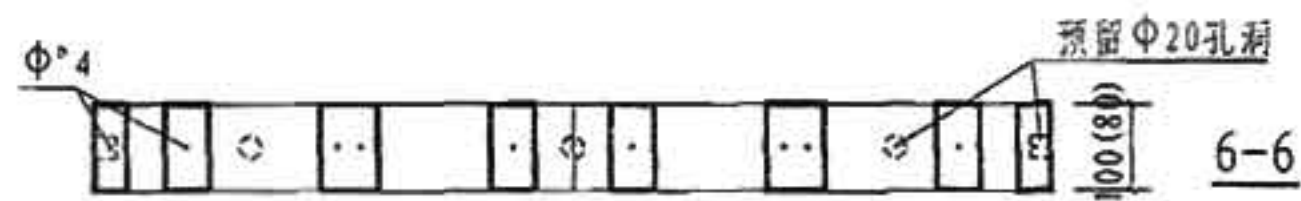
①



②

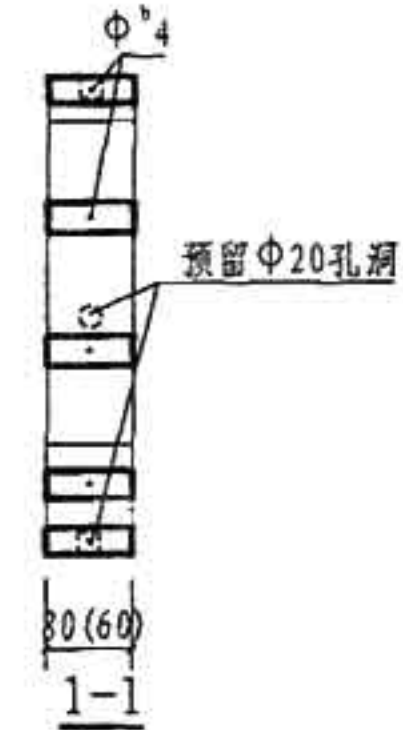
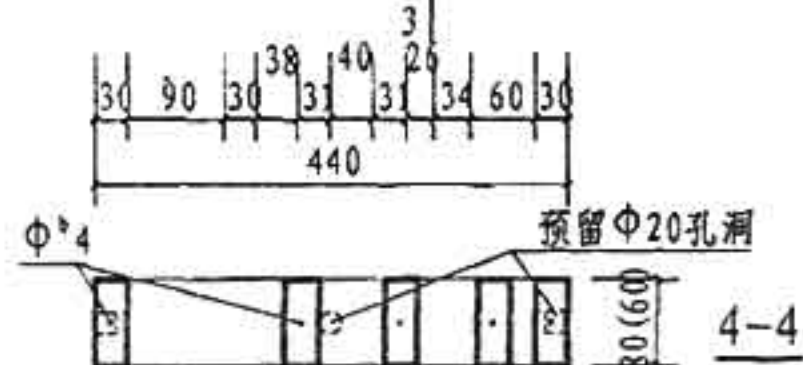
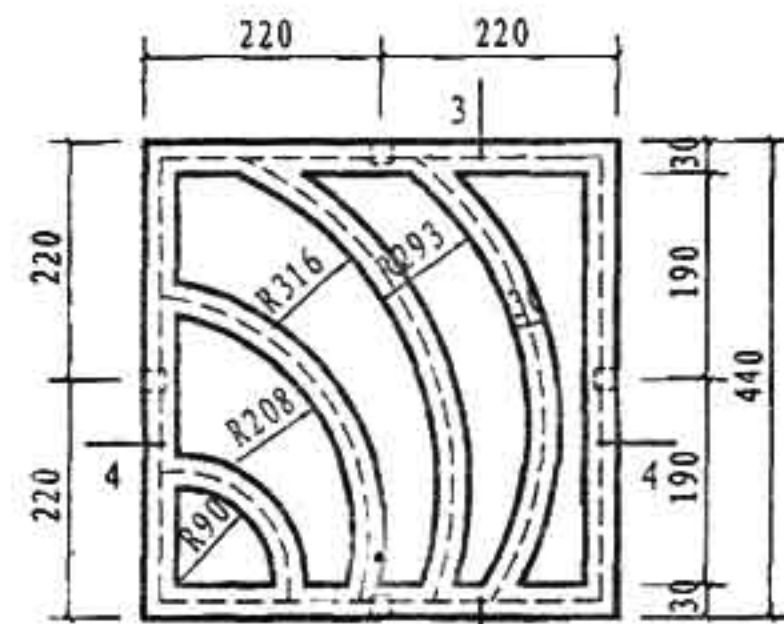
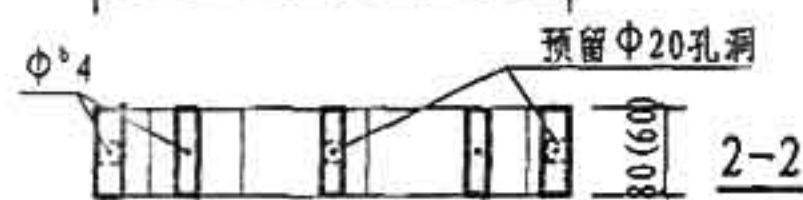
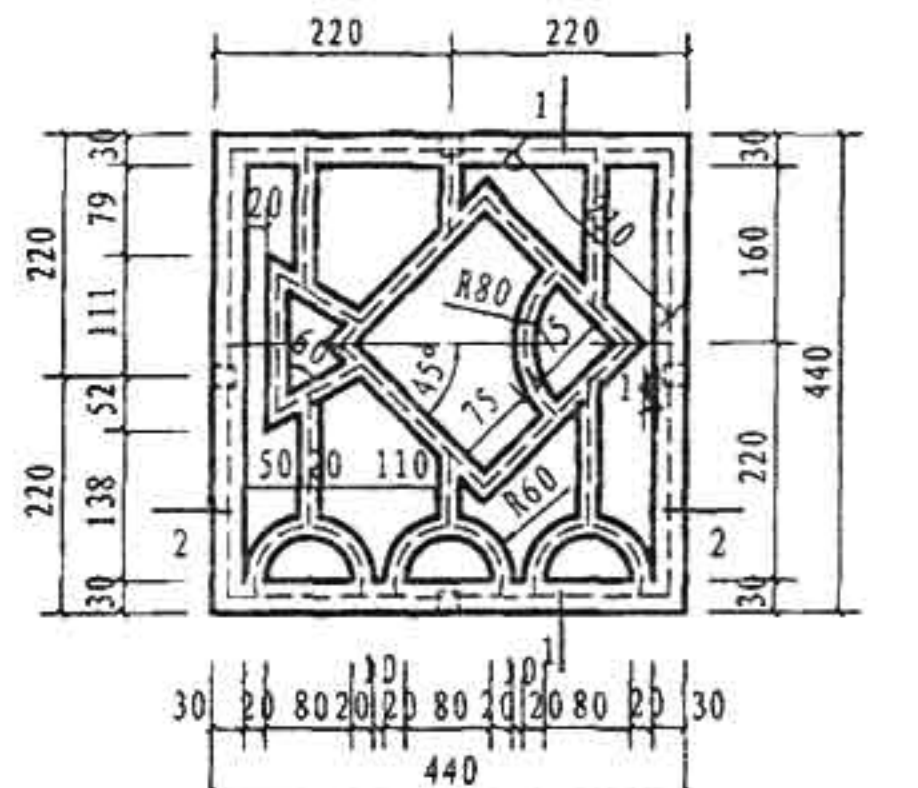


③

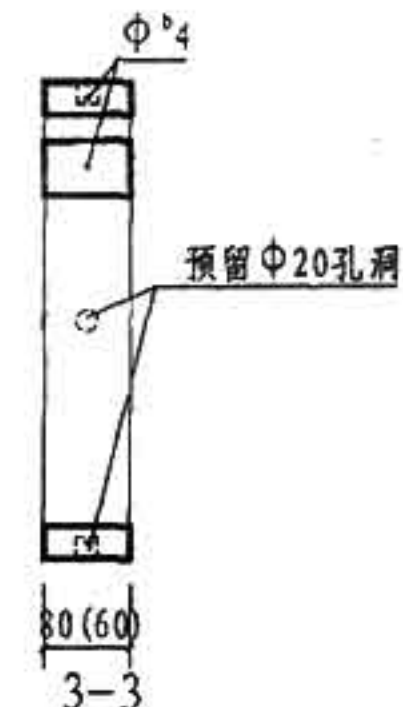


混凝土漏花详图八
(450x450、900x900)

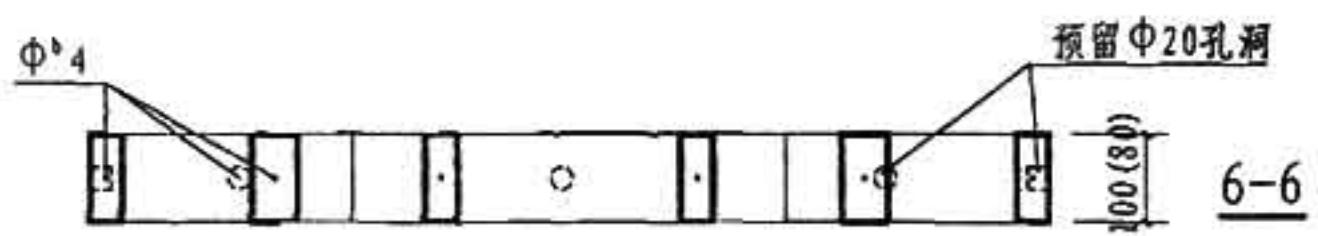
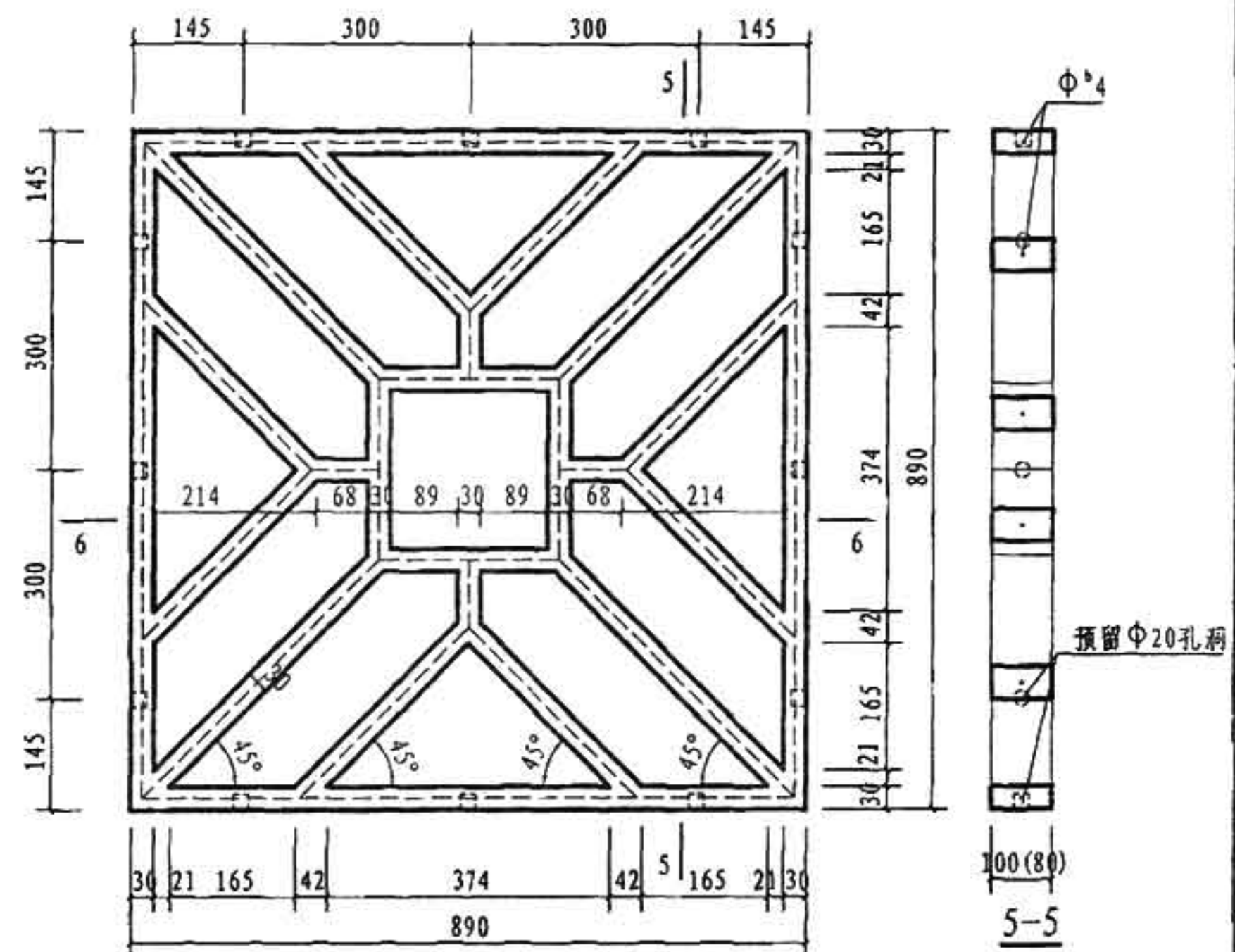
车艳娜
陈志敏
陈志敏
校对
设计
绘图



①



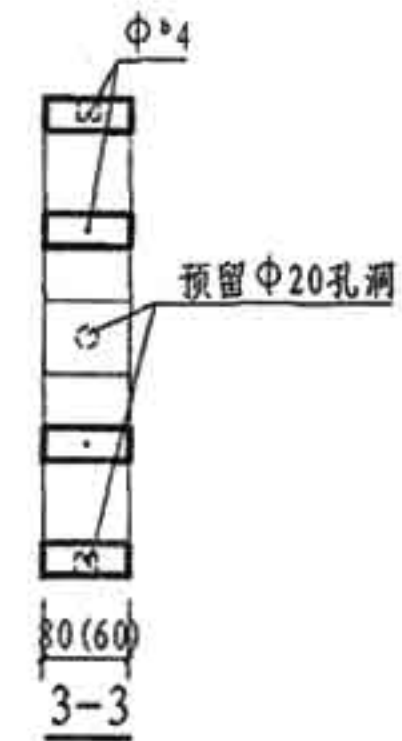
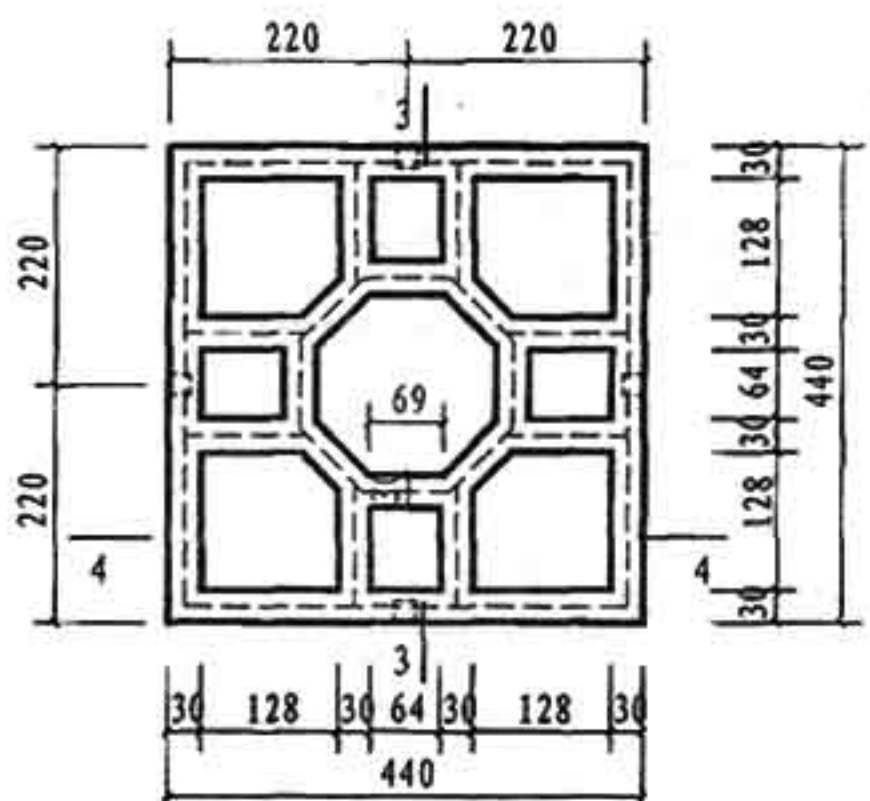
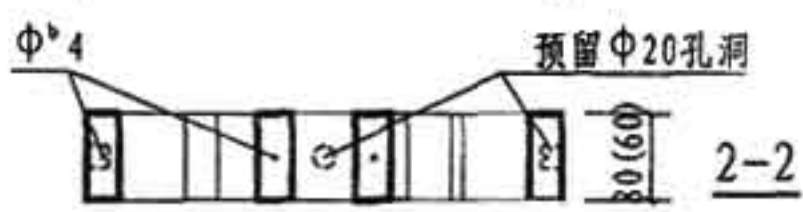
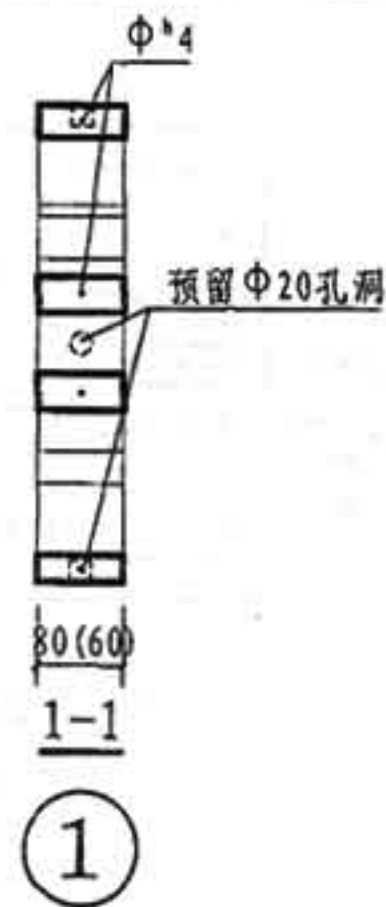
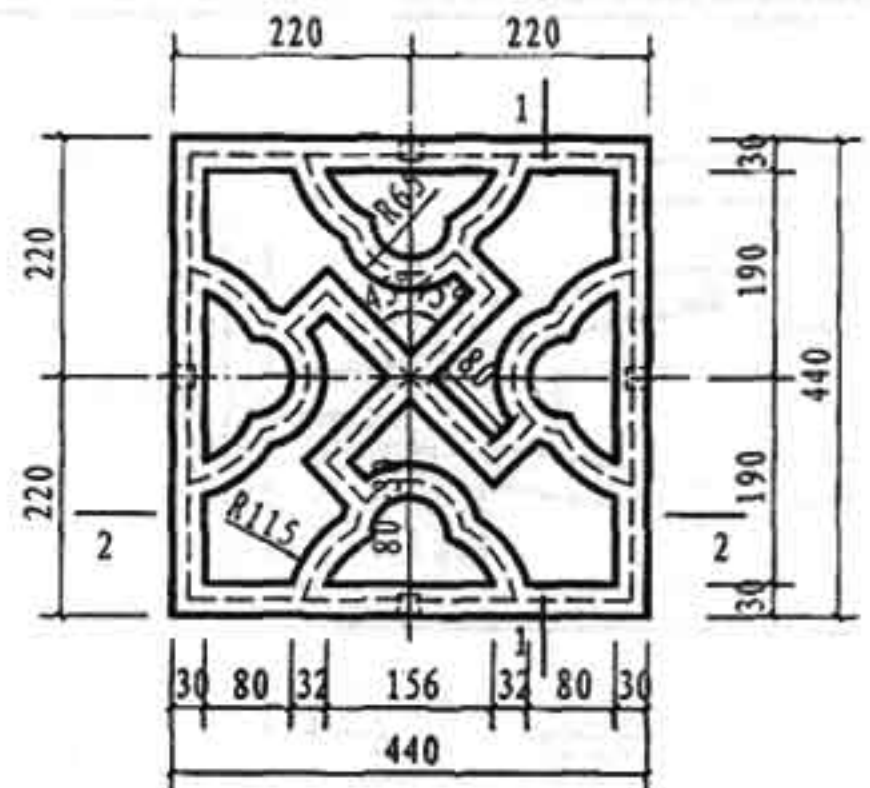
②



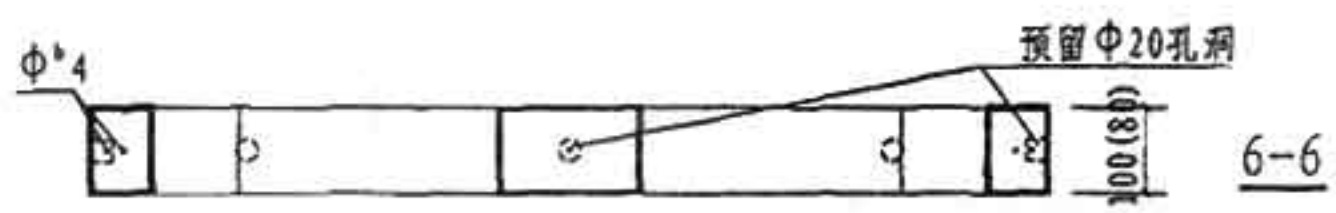
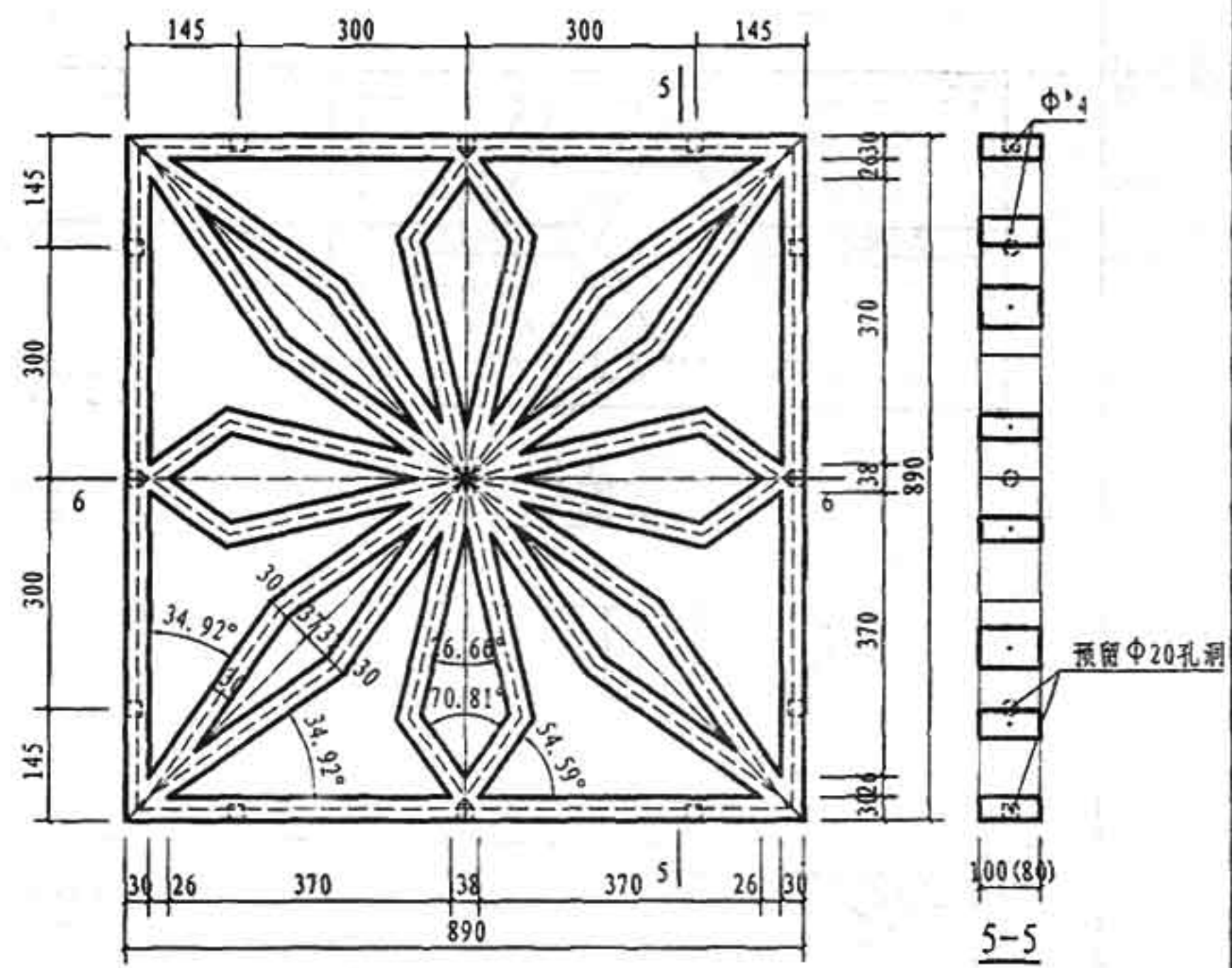
③

混凝土漏花详图九
(450x450、900x900)

设计
 校核
 审核
 设计
 校核
 审核
 设计
 校核
 审核



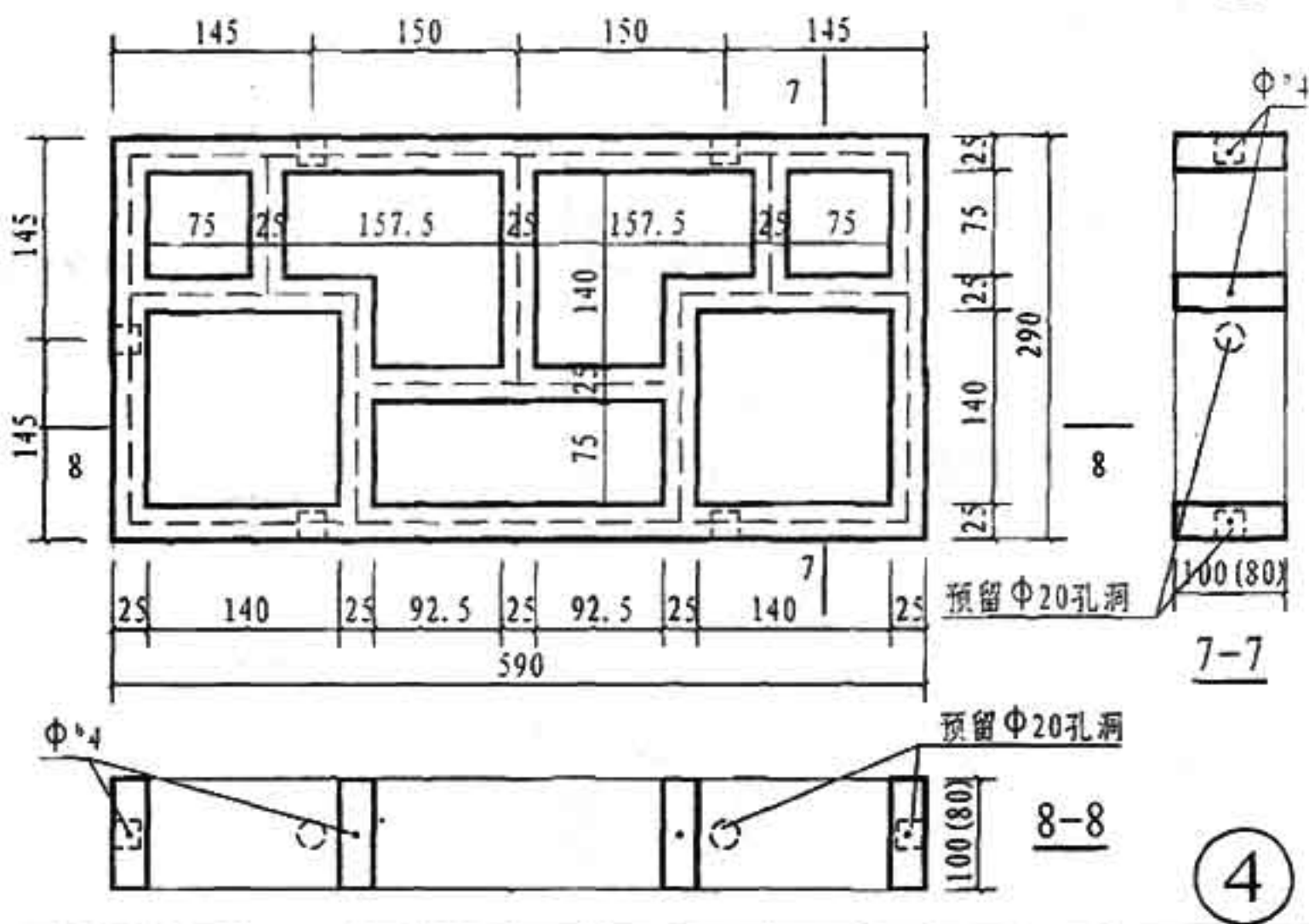
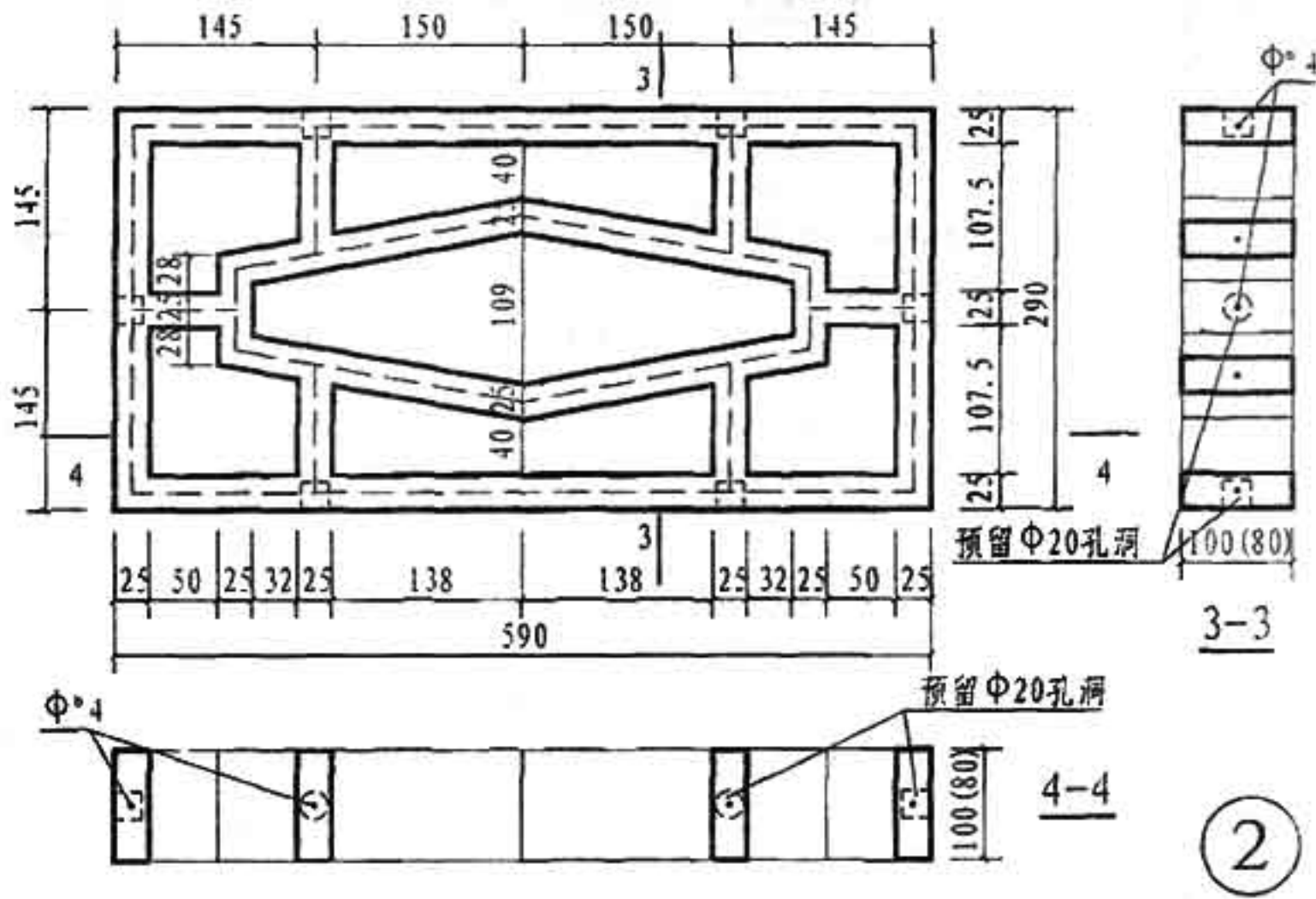
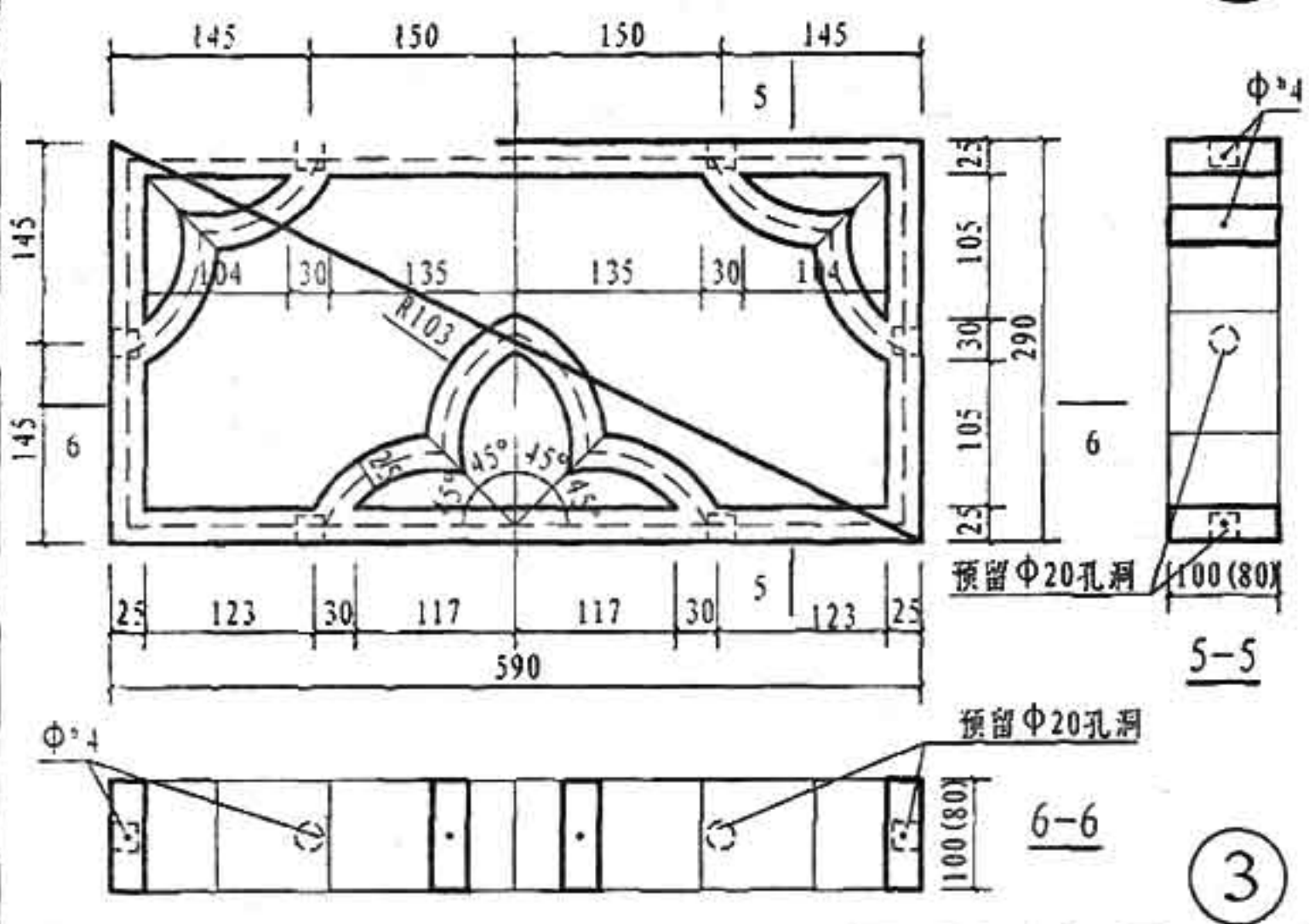
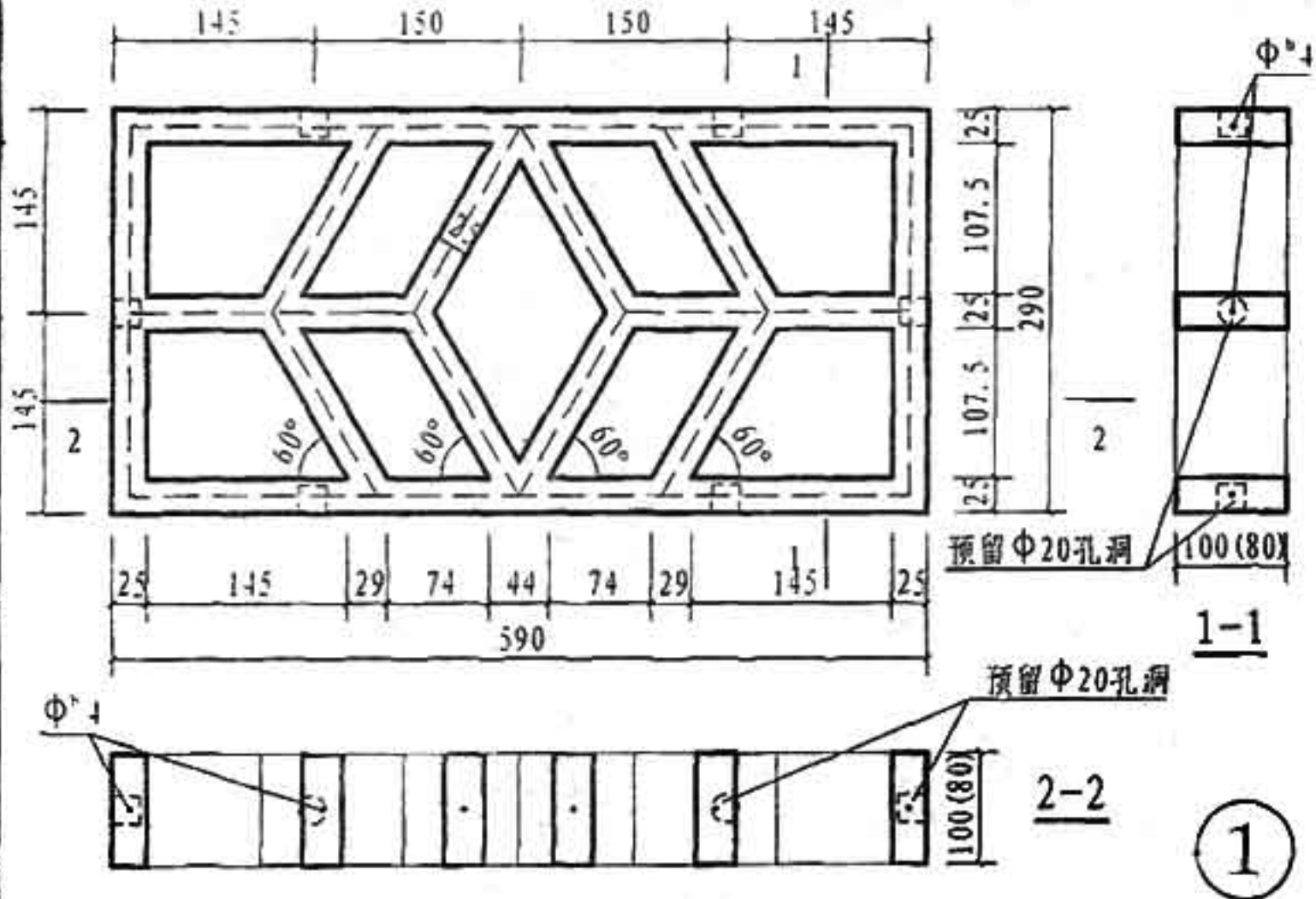
②



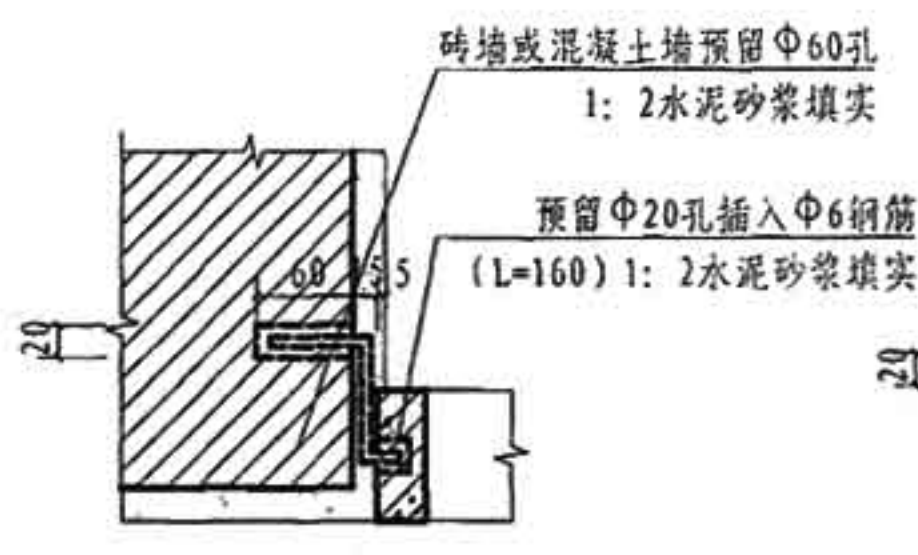
③

混凝土漏花详图十
 (450x450、900x900)

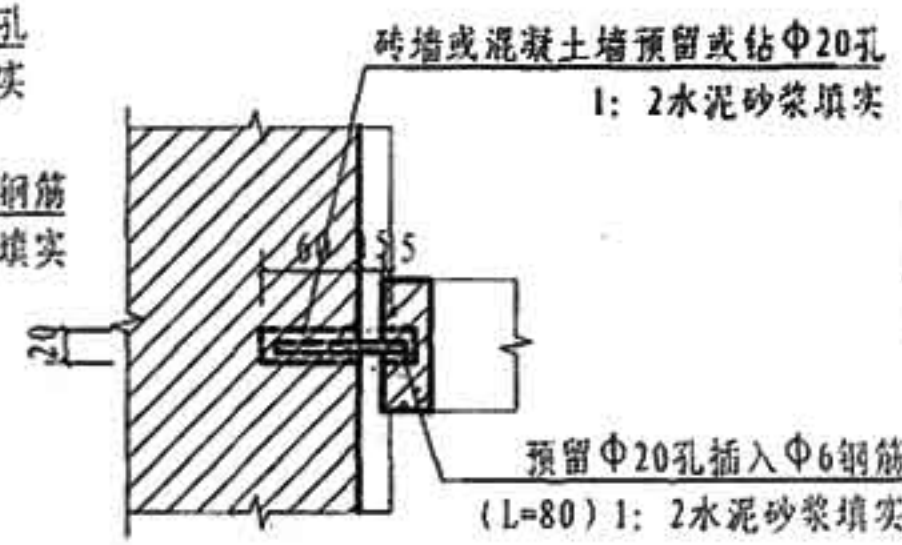
校对 设计 绘图
车 陈 陈
艳 志 志
娜 敏 敏



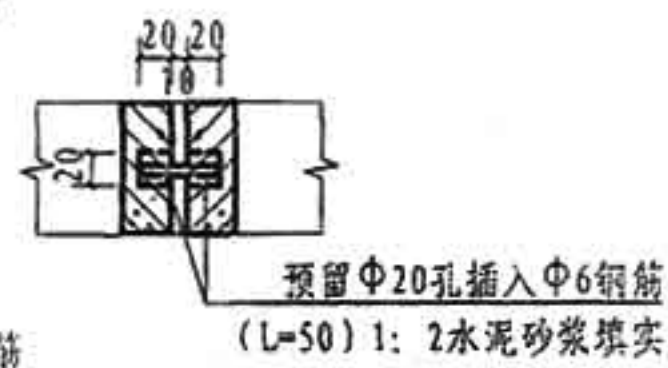
审核
 设计
 校对
 日期



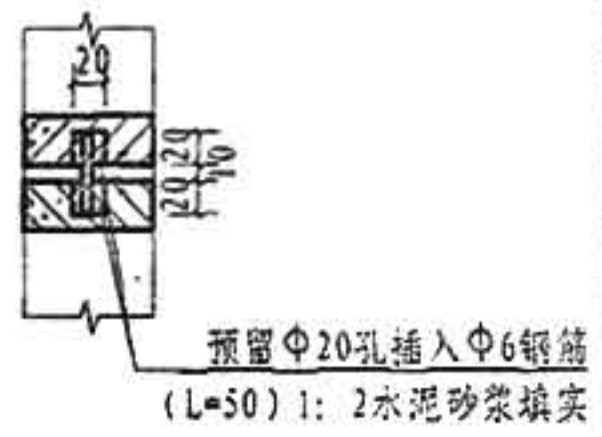
① 单个花式与墙锚固



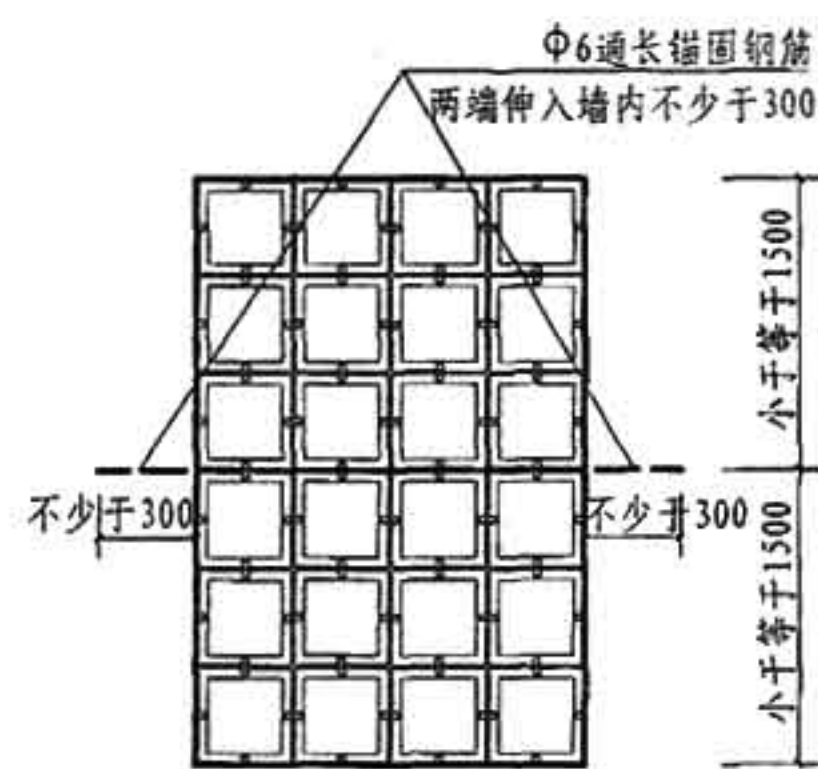
② 单个花式与墙锚固



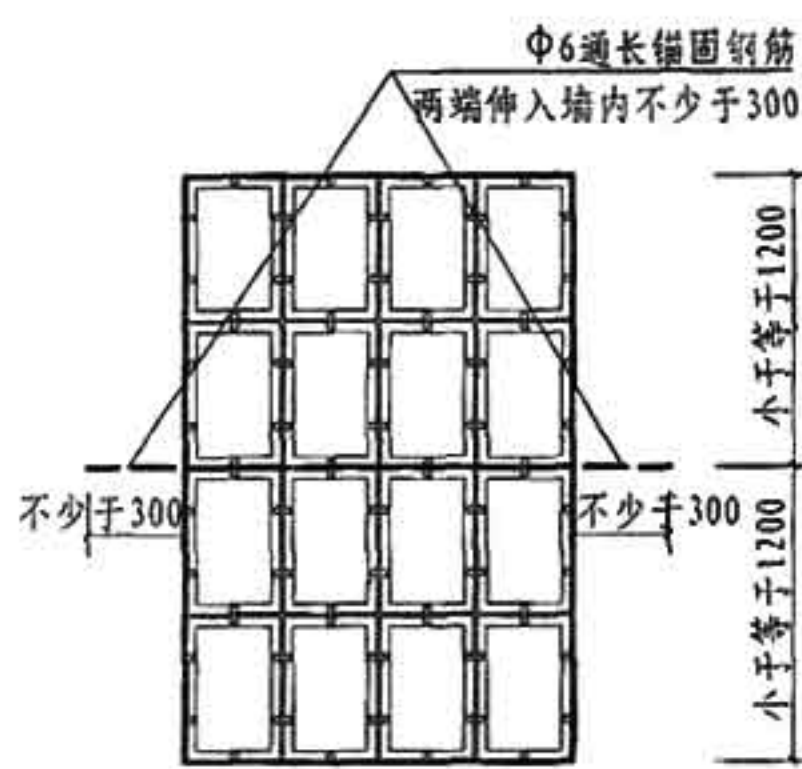
③ 单个花式锚固



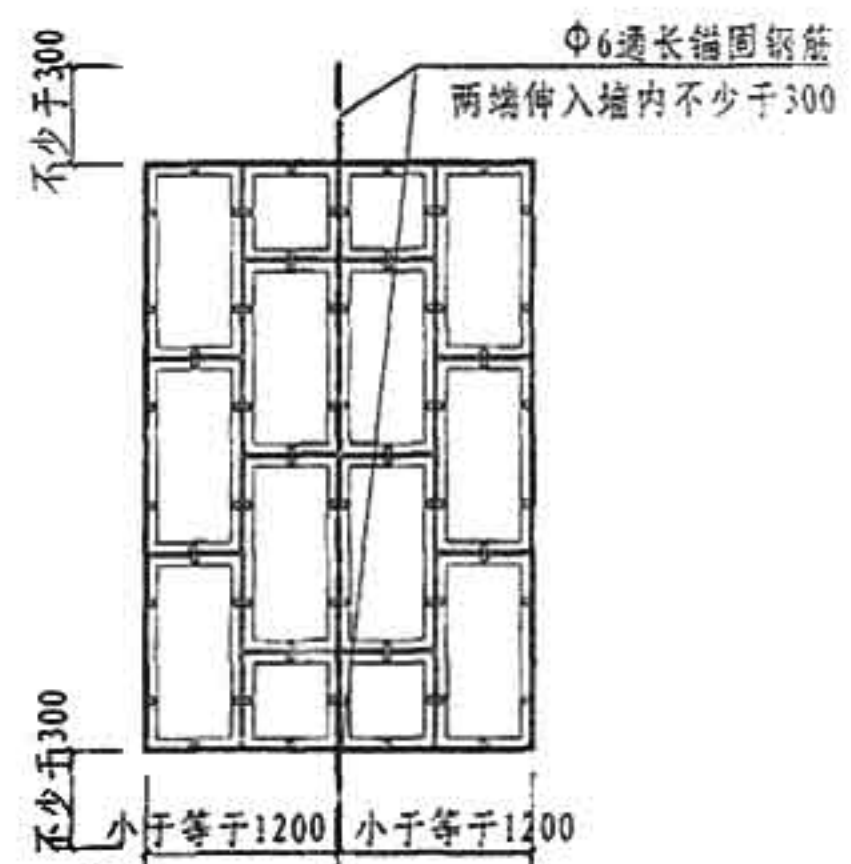
④ 单个花式锚固



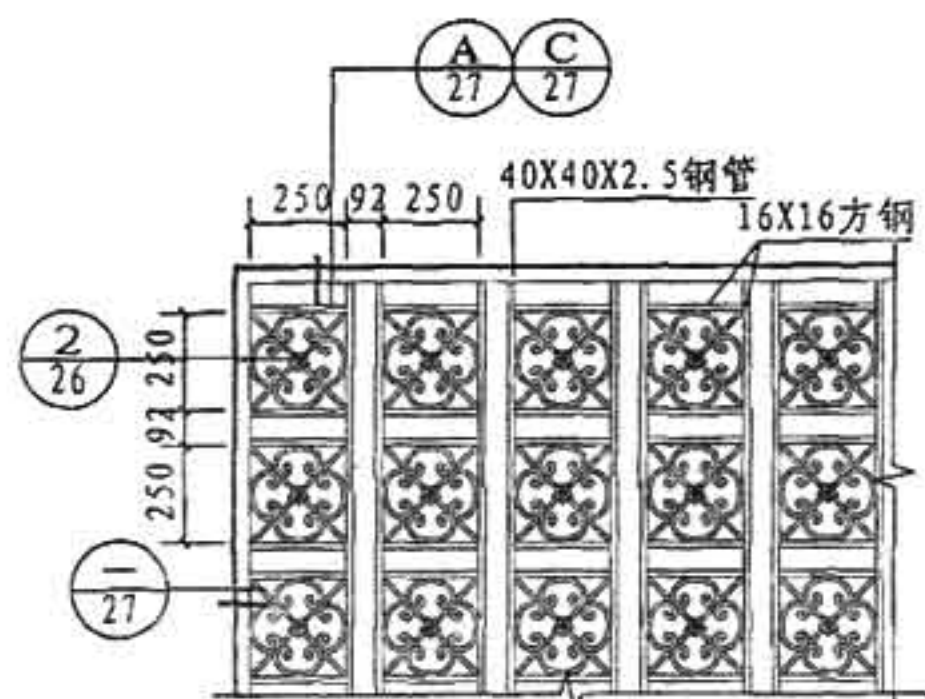
⑤ 组合花式锚固



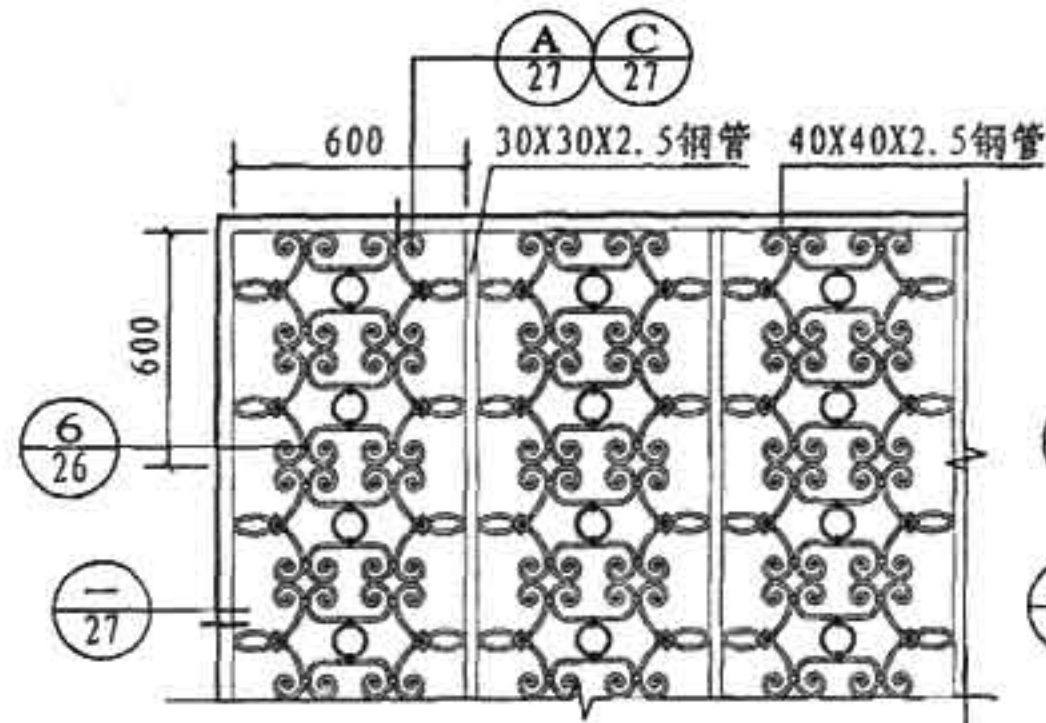
⑥ 组合花式锚固



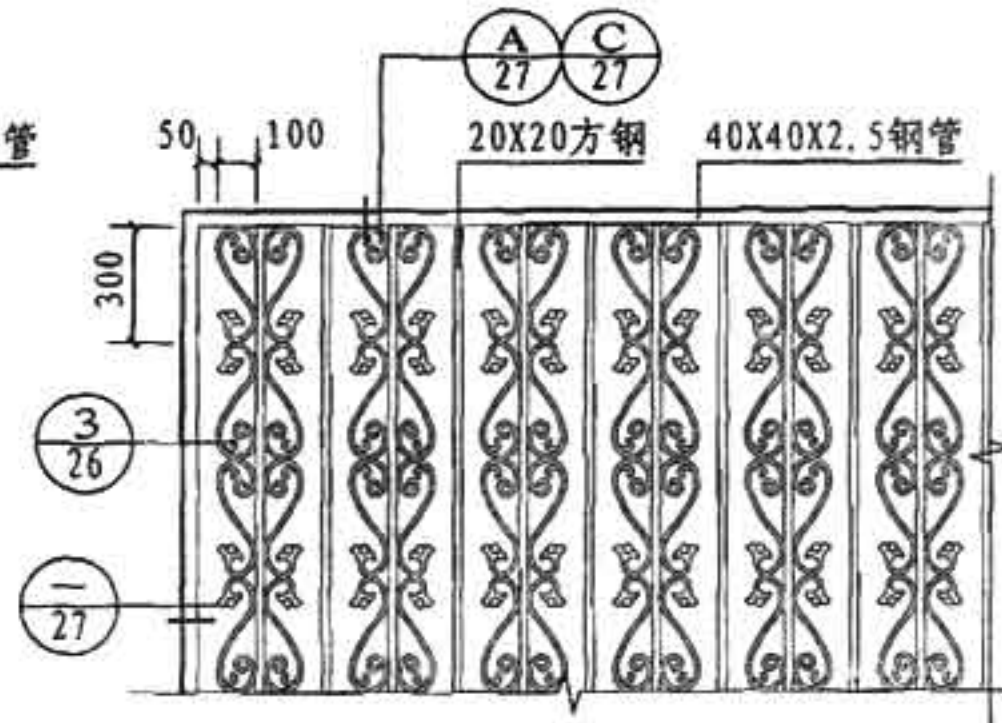
⑦ 组合花式锚固



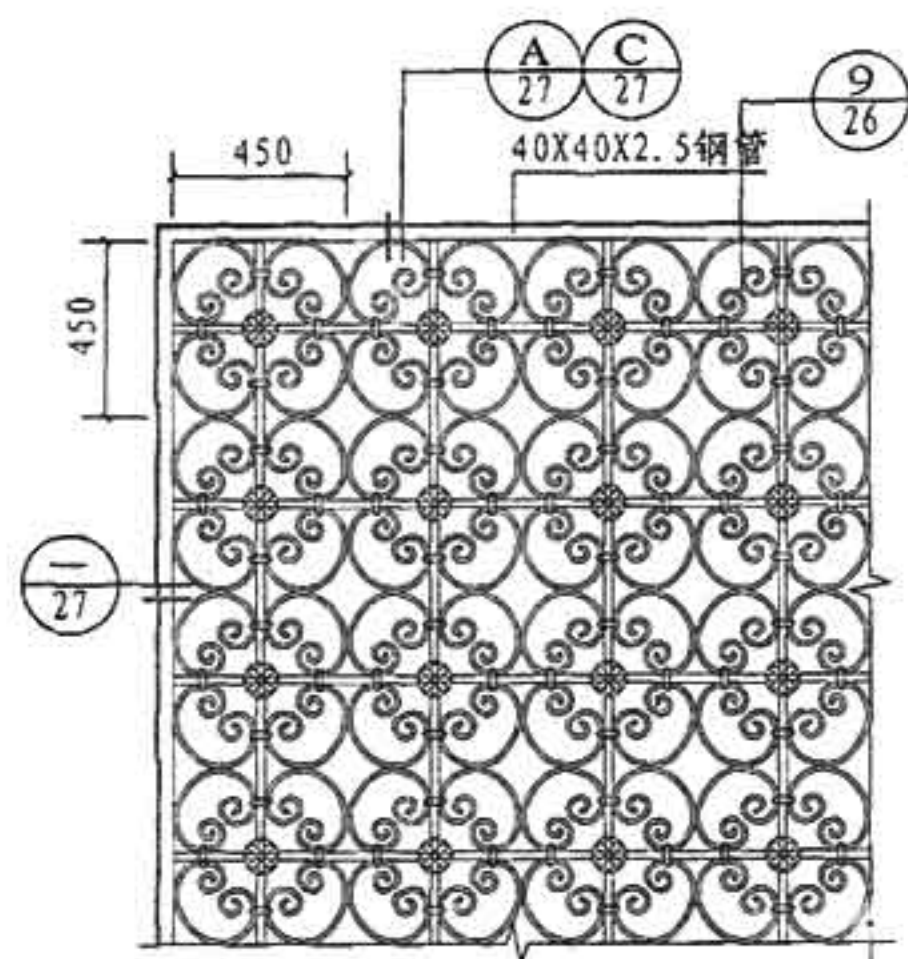
1



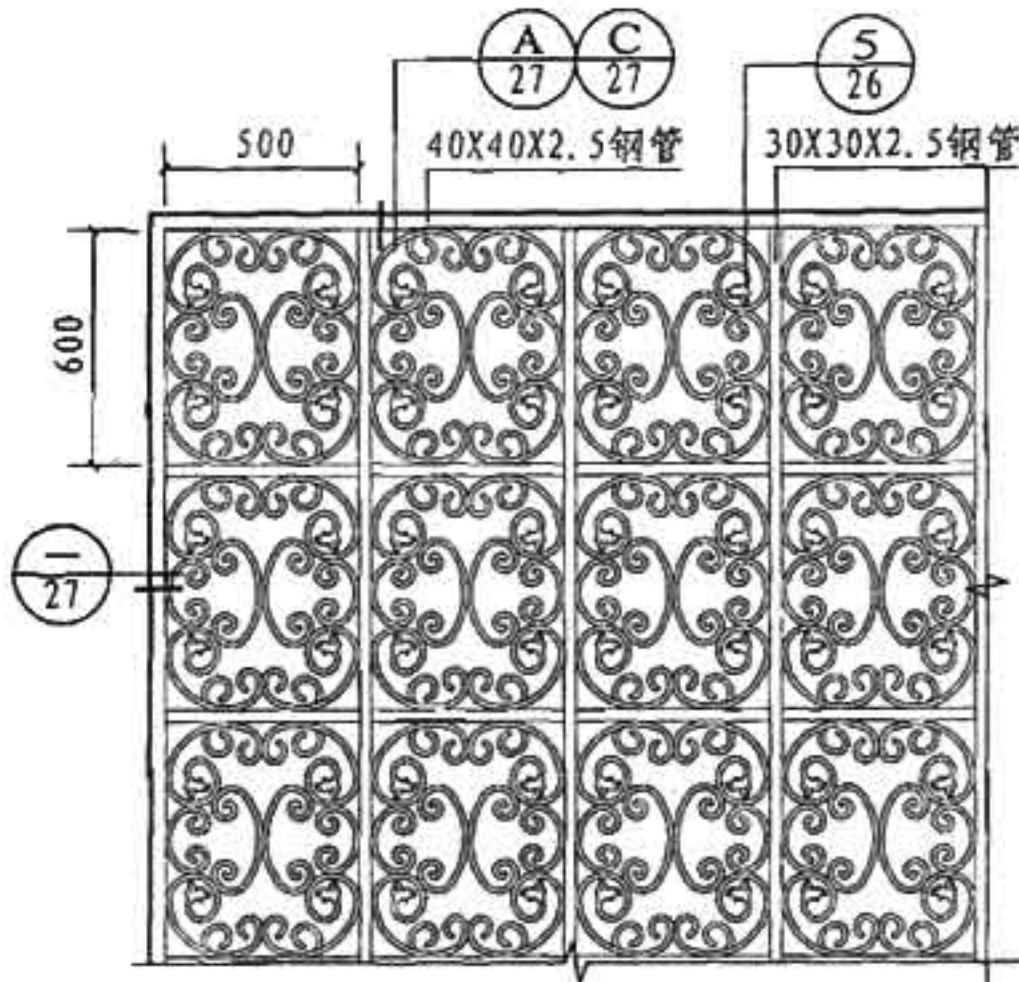
2



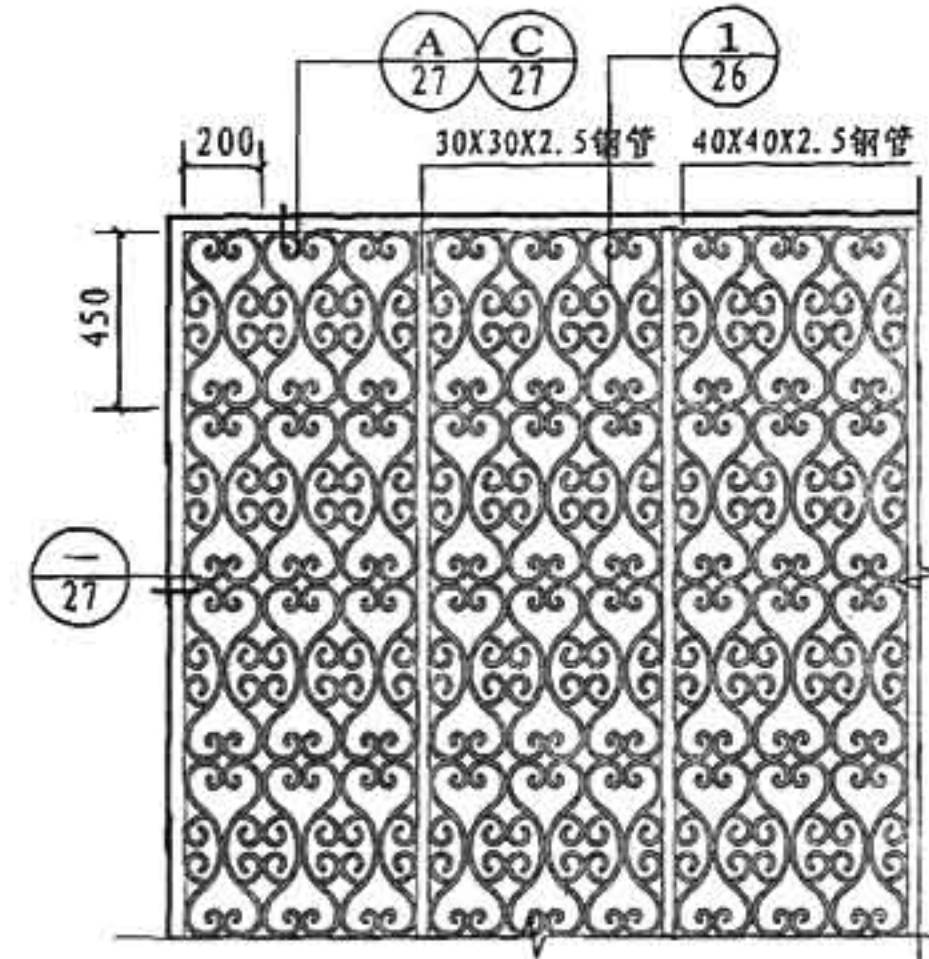
3



4

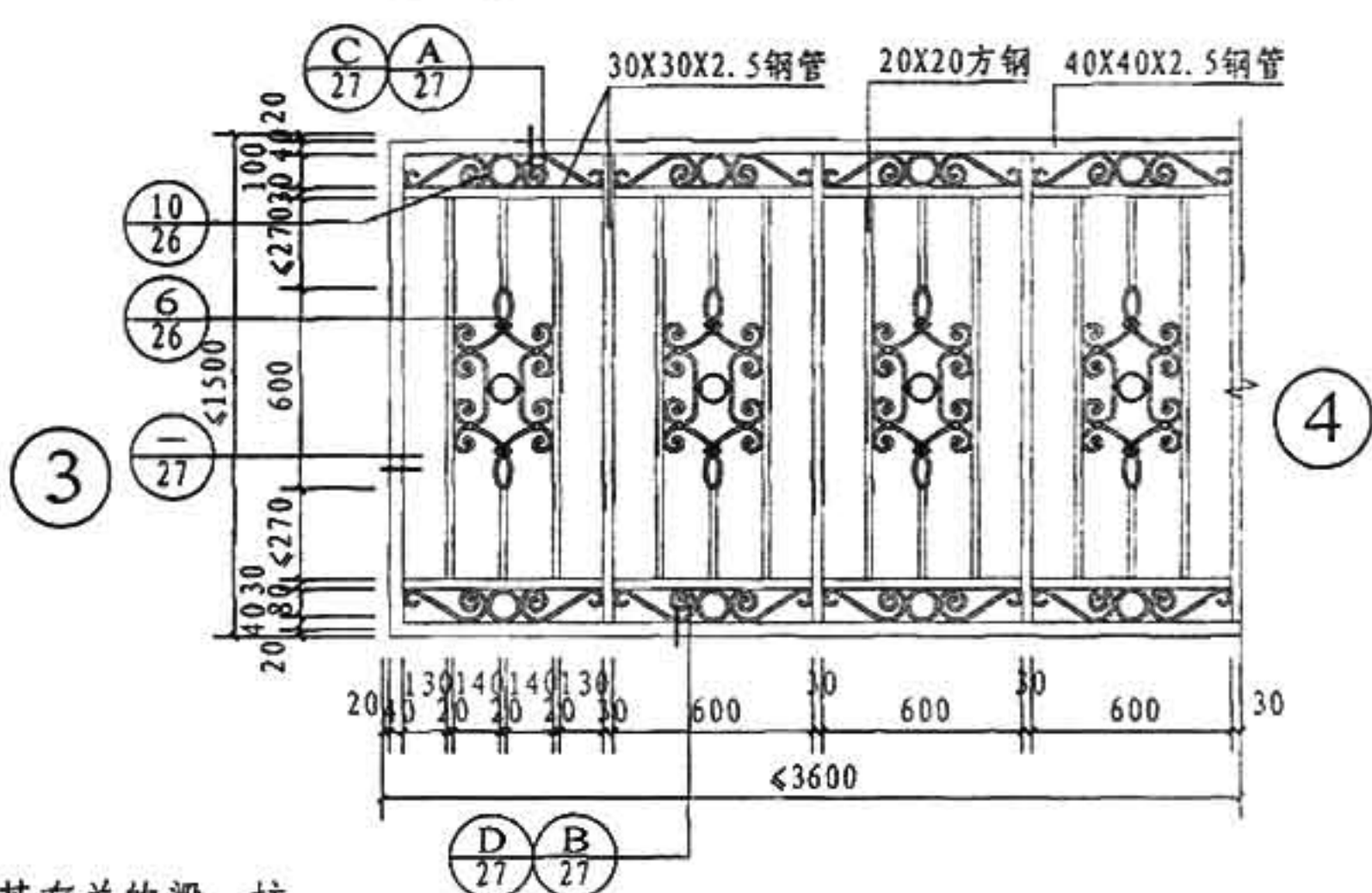
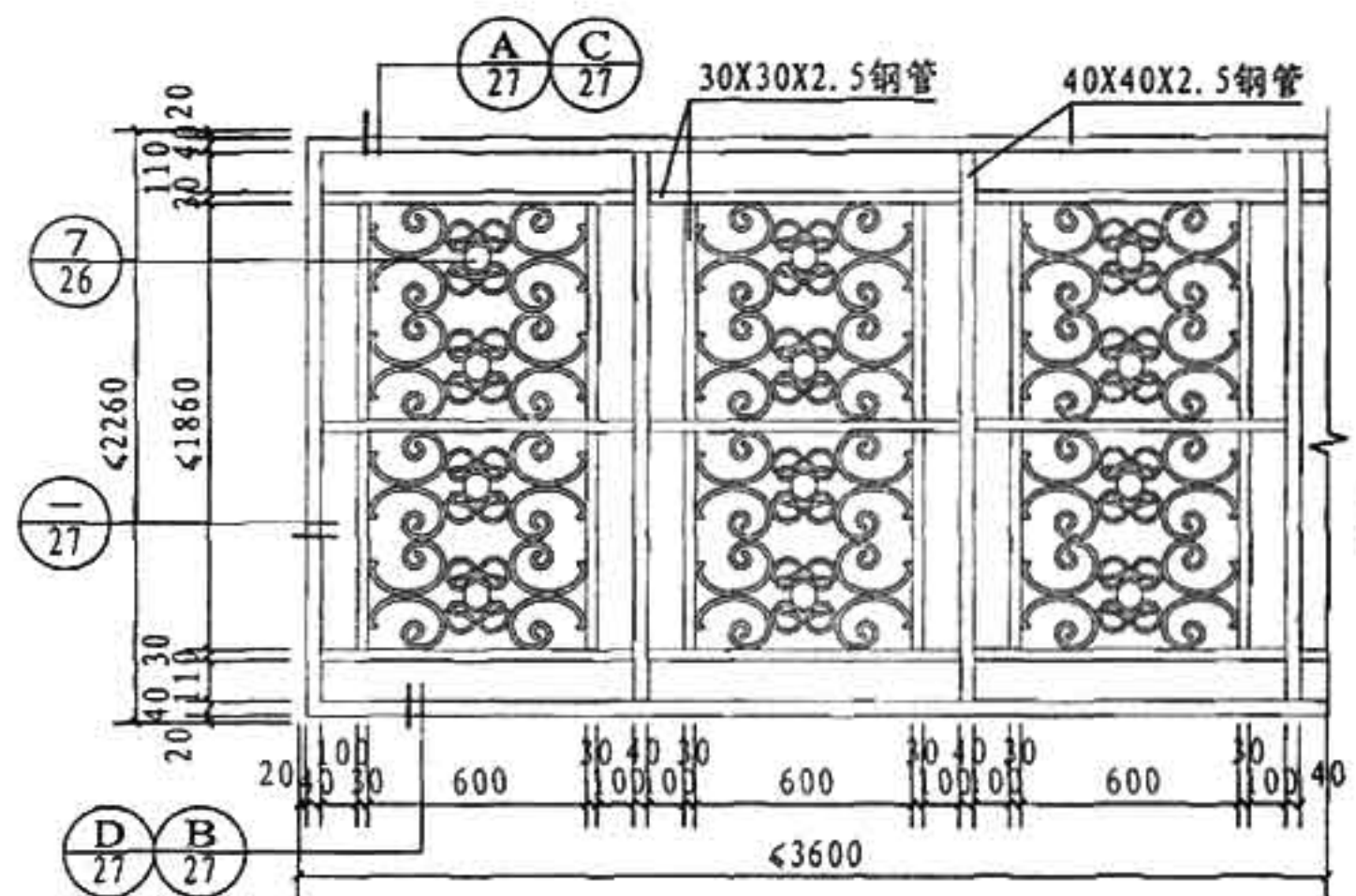
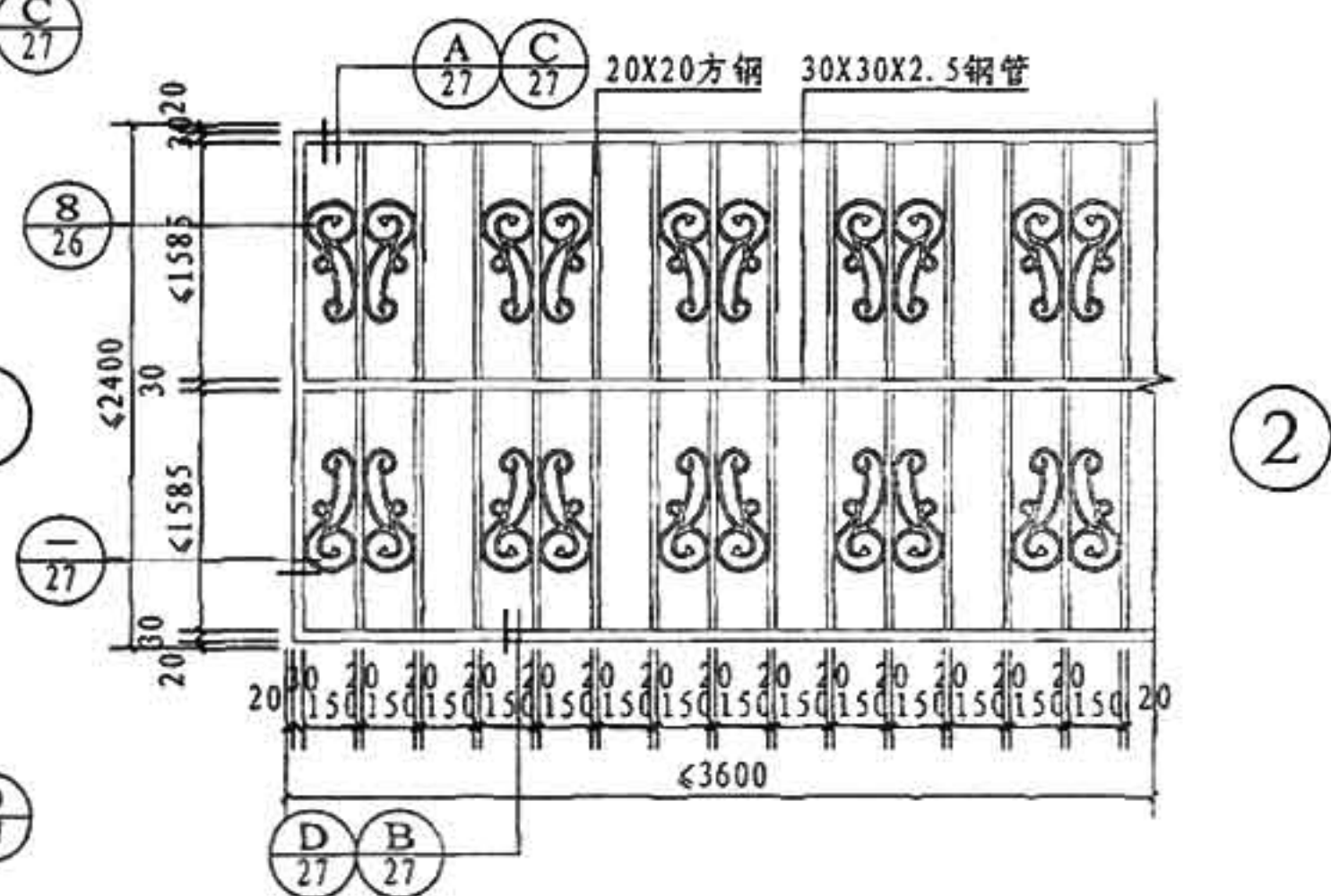
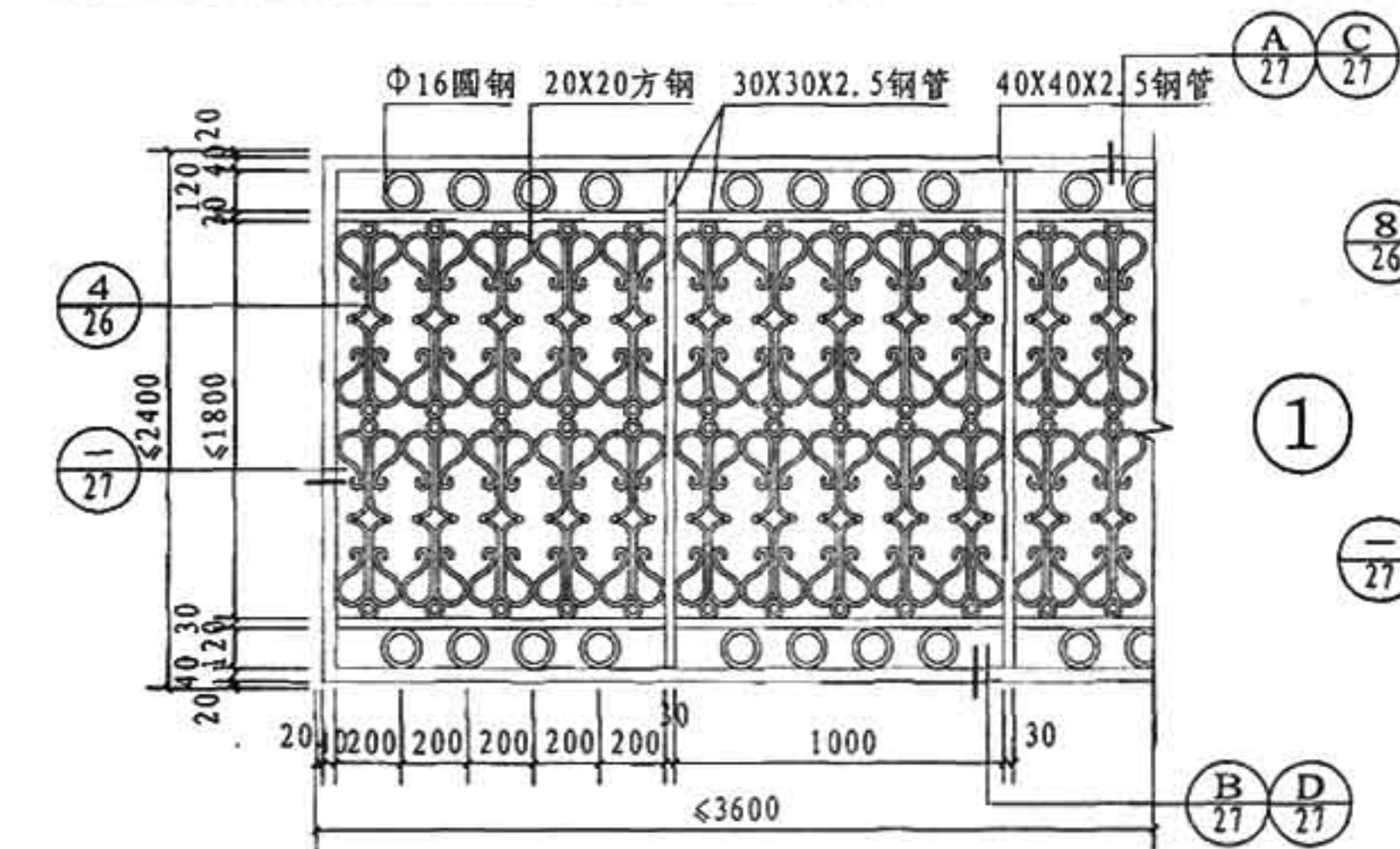


5



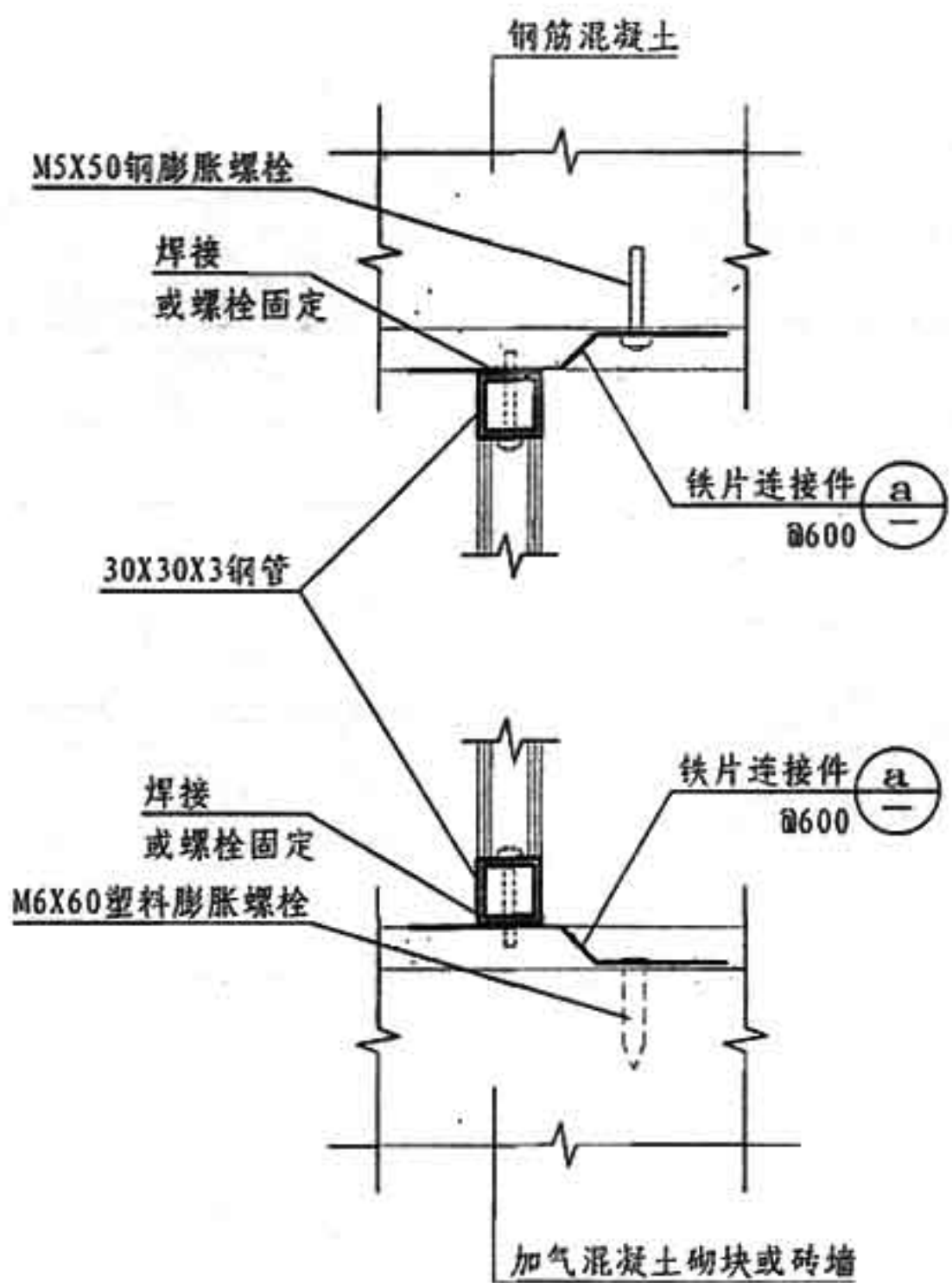
6

说明: 本金属漏花组合的高度不应大于3000, 宽度不应大于3600, 用于无安全要求的室内外装饰构件, 凡与其有关的梁、柱、边框、材料、面层做法等均按单项工程设计。漏花的连接为焊接或螺栓连接按单项工程设计定。



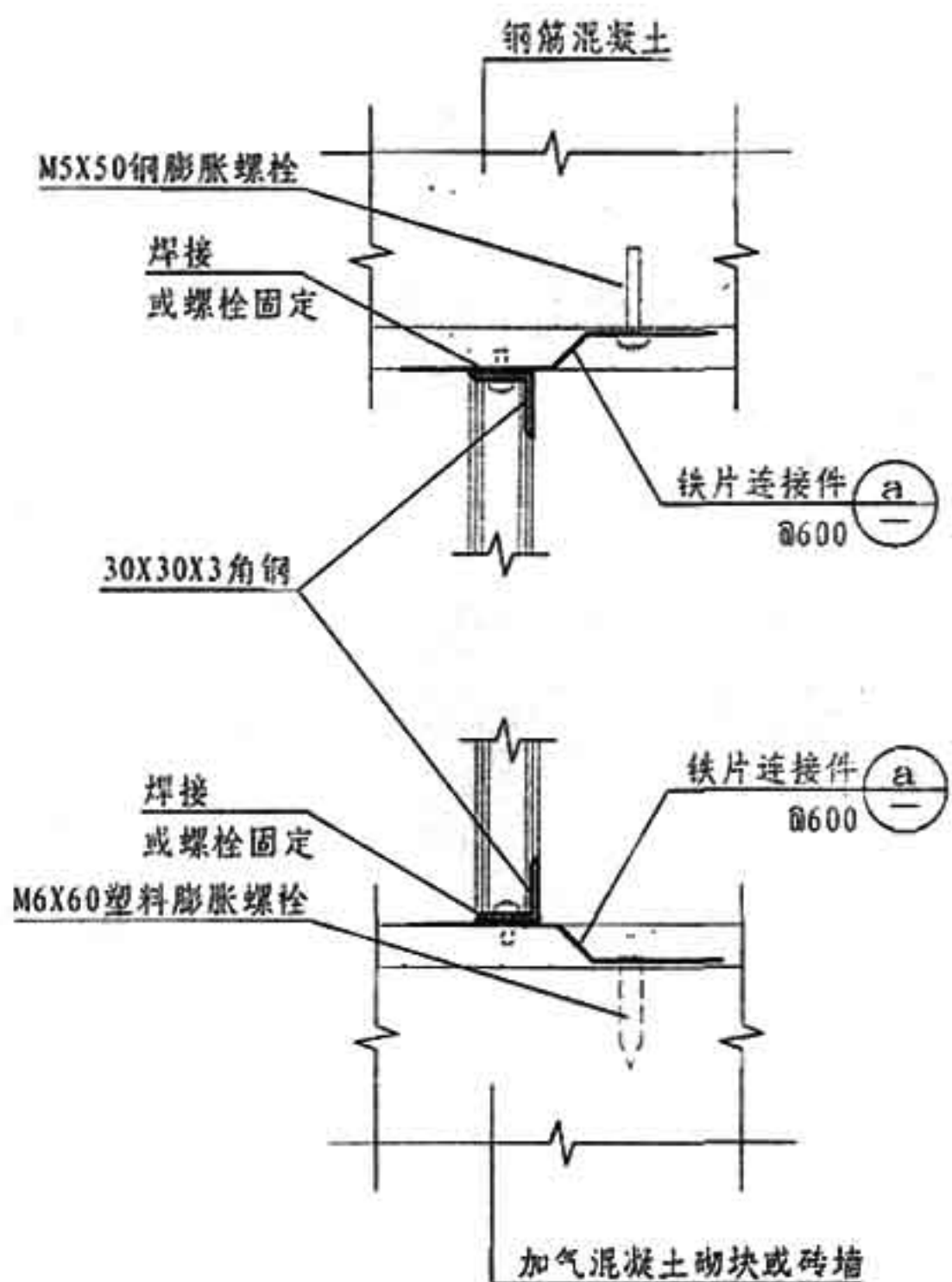
说明: 本金属漏花组合用于无安全要求的室内外装饰构件, 凡与其有关的梁、柱、边框、材料、面层做法等均按单项工程设计。漏花的连接为焊接或螺栓连接按单项工程设计定。

金属漏花组合二



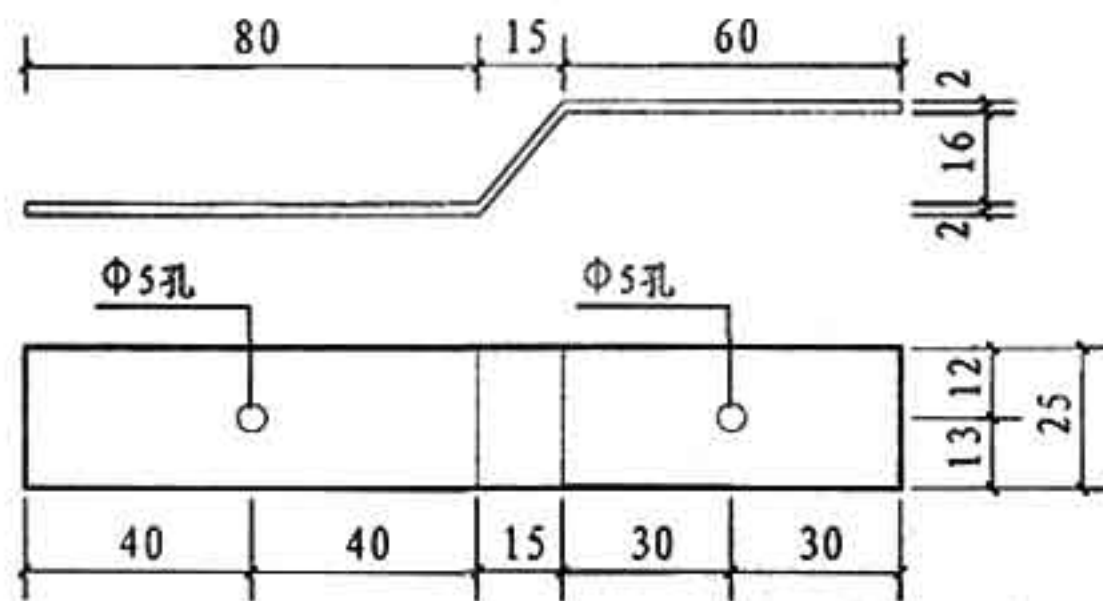
A

B



C

D

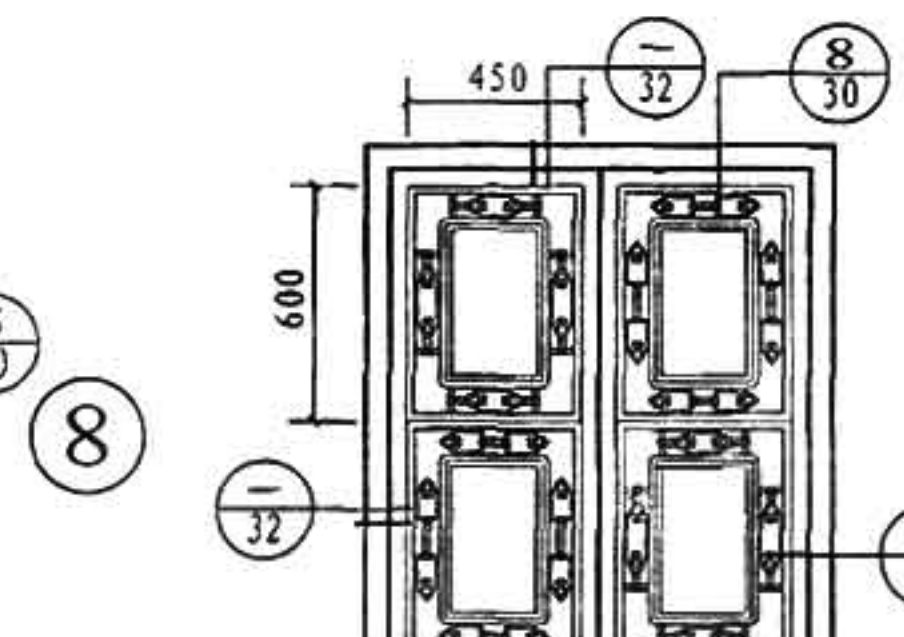
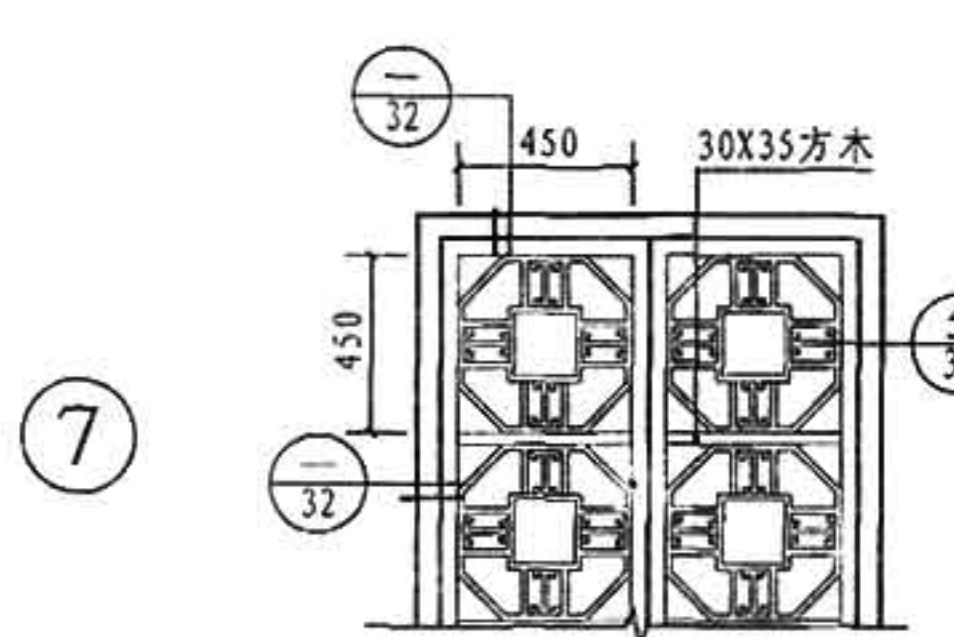
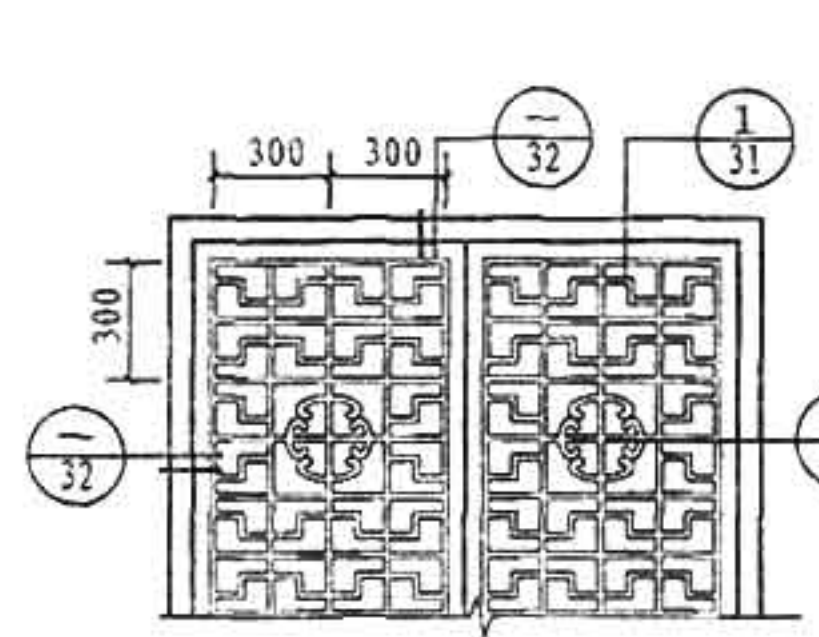
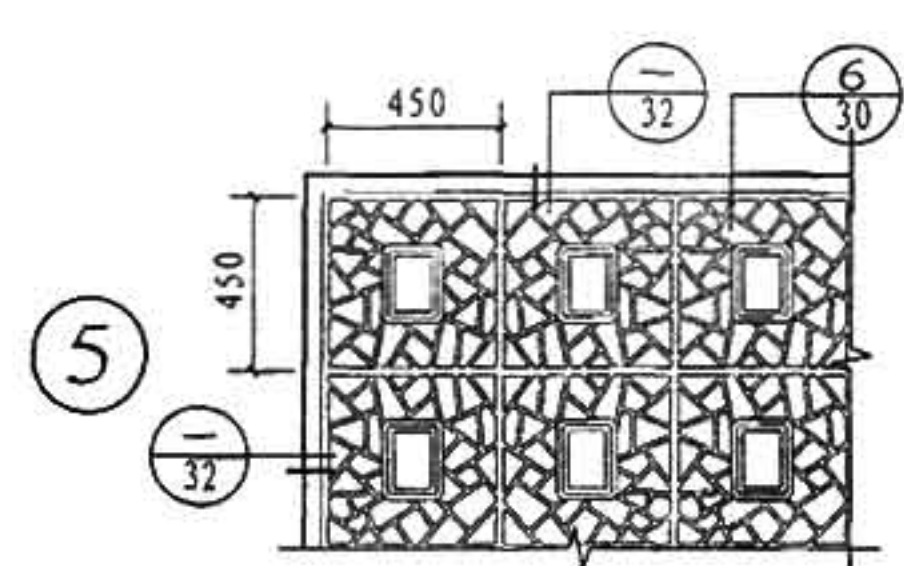
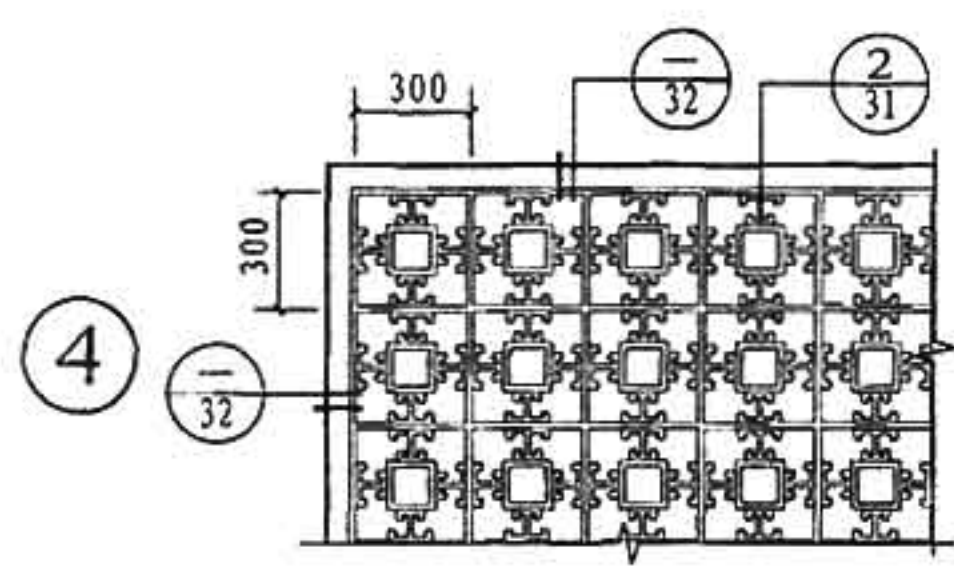
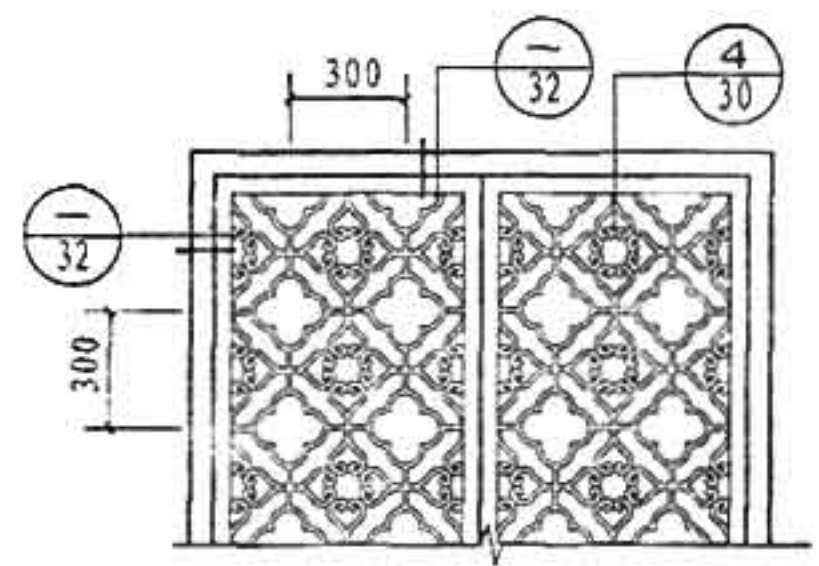
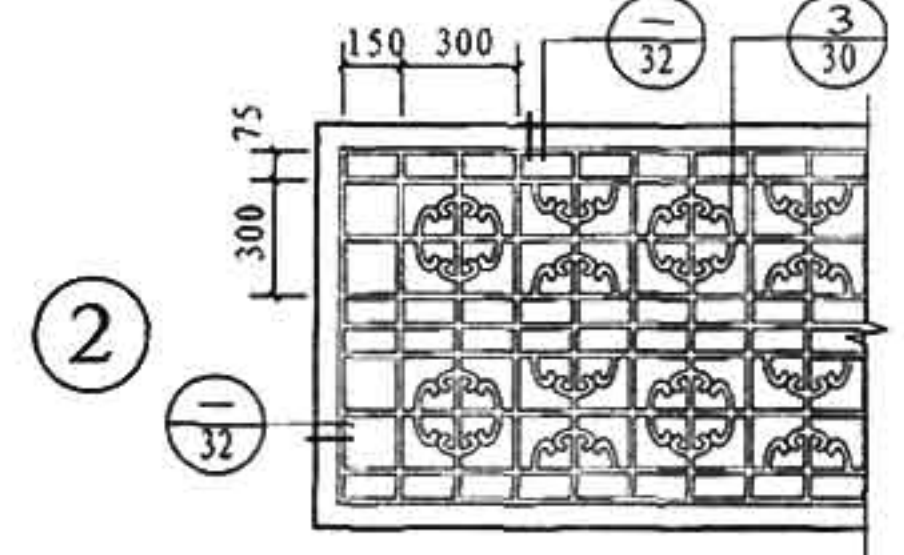
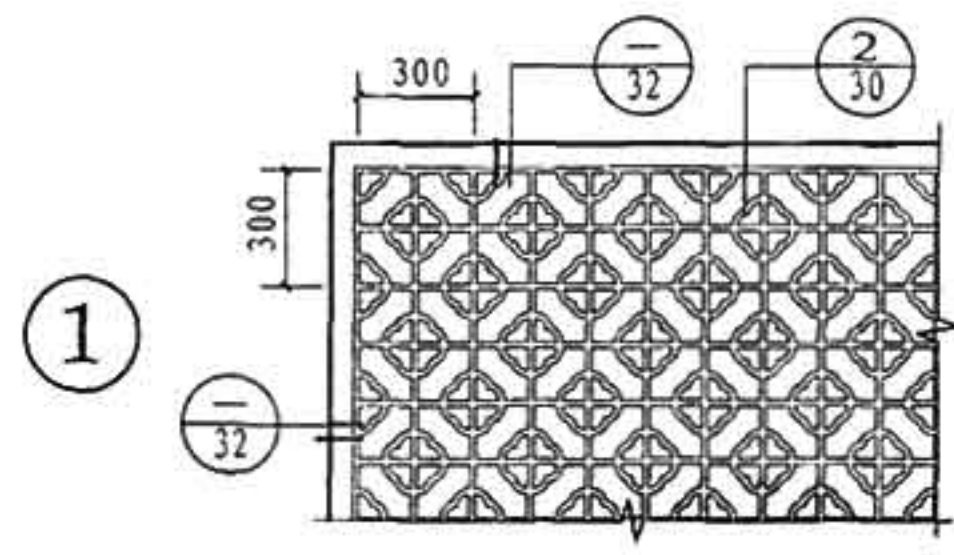
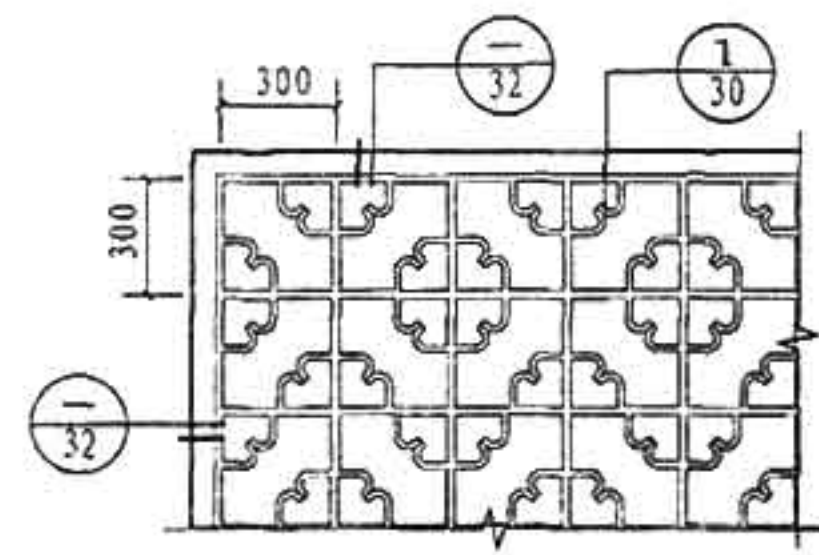


a

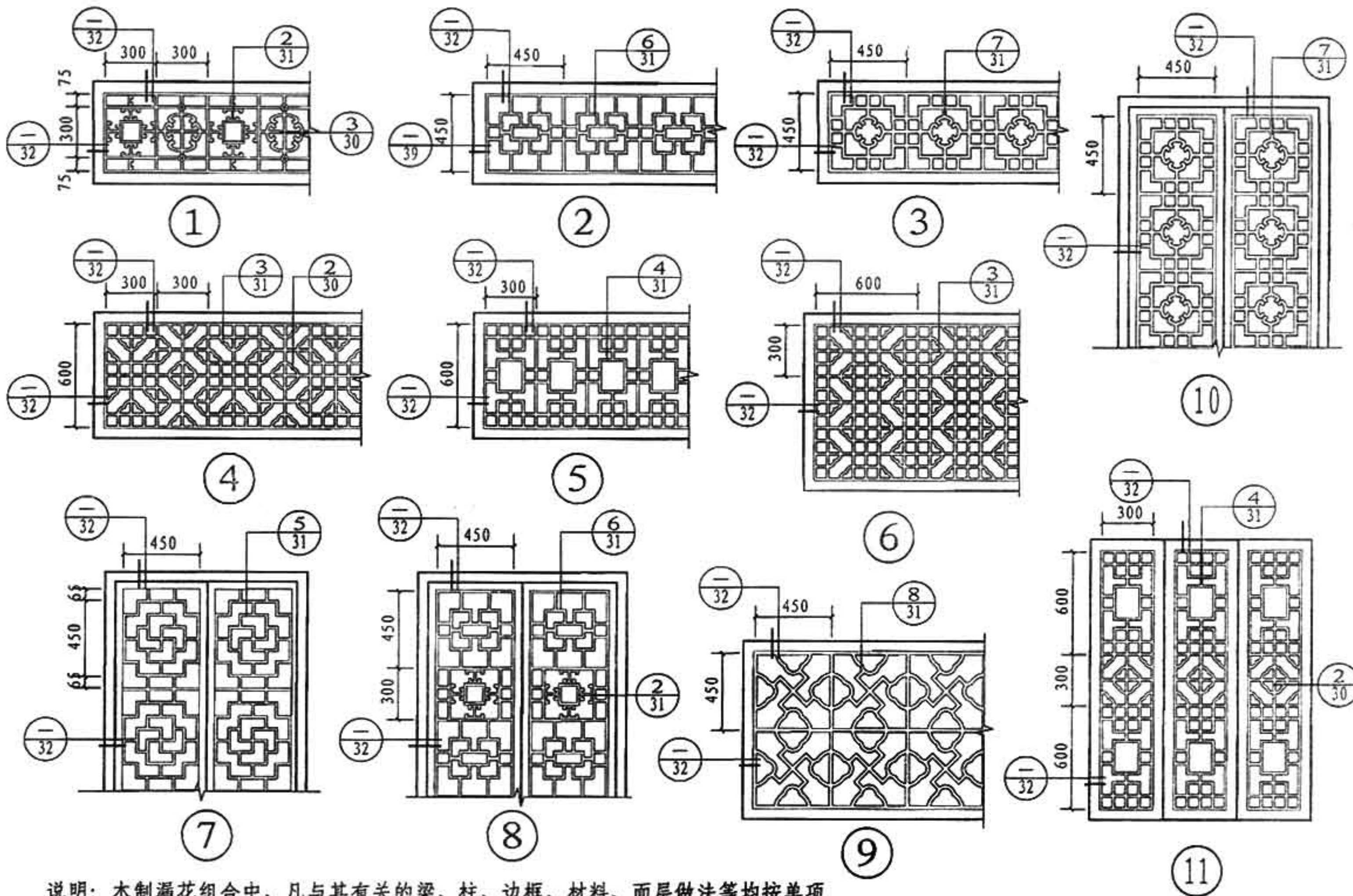
说明：漏花框料与洞口之间的固定，除按本页节点施工外，还可在墙中预埋钢连接件，也可用射钉嵌固在洞框上，具体按单项工程设计。图中框料尺寸与材料可根据不同的漏花组合形式作相应的更改。

金属漏花锚固详图

校核	陈志敏	车艳娜	车艳娜
设计	陈志敏	车艳娜	车艳娜
绘图	陈志敏	车艳娜	车艳娜

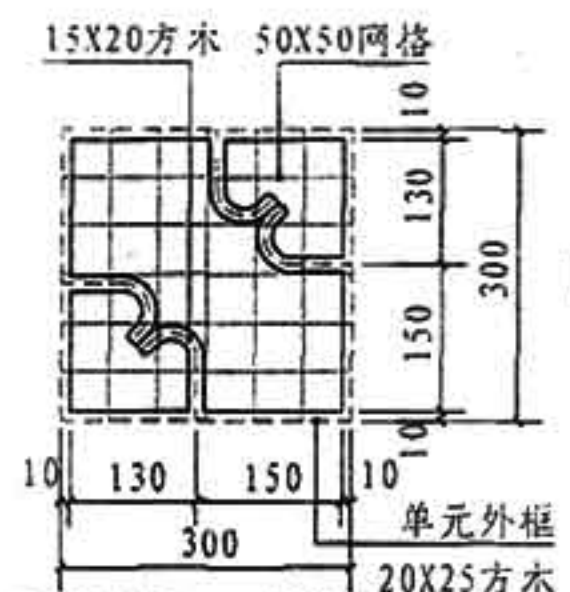


说明：木制漏花组合中，凡与其有关的梁、柱、边框、材料、面层做法等均按单项工程设计。漏花的连接为榫接、胶接或螺钉固定按单项工程设计定。漏花可由厂家加工，单元尺寸详见30、31页。漏花单元可组合成花窗、隔断、花隔墙等按单项工程设计。

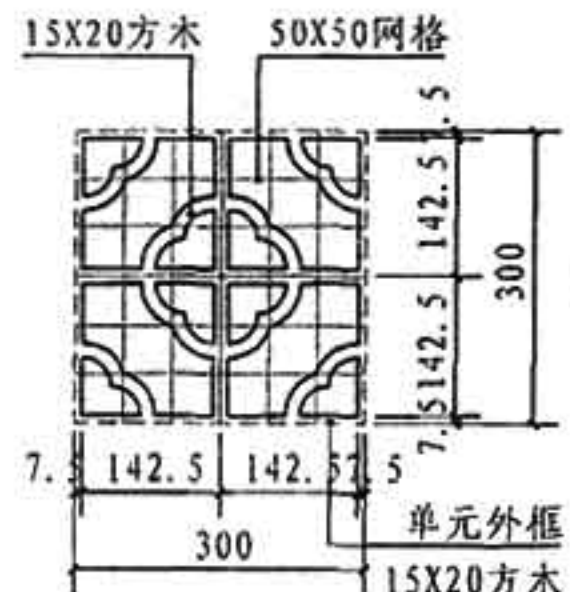


说明: 木制漏花组合中, 凡与其有关的梁、柱、边框、材料、面层做法等均按单项工程设计。漏花的连接为榫接、胶接或螺钉固定按单项工程设计定。漏花可由厂家加工, 单元尺寸详见30、31页。漏花单元可组合成花窗、隔断、花隔墙等按单项工程设计。

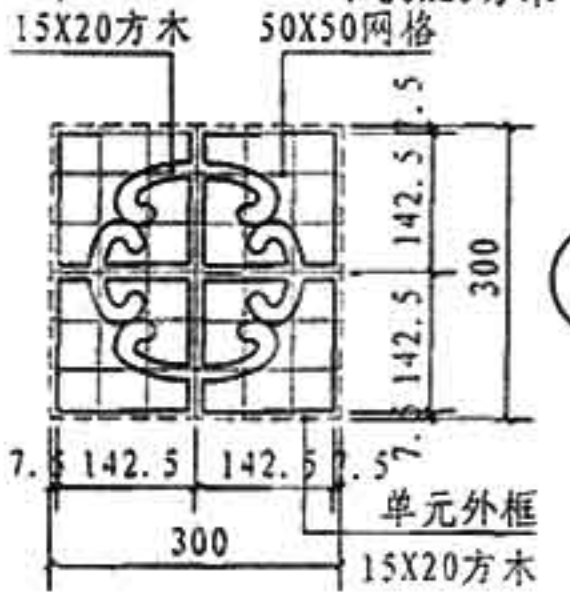
设计
校核
审核
制图
绘图



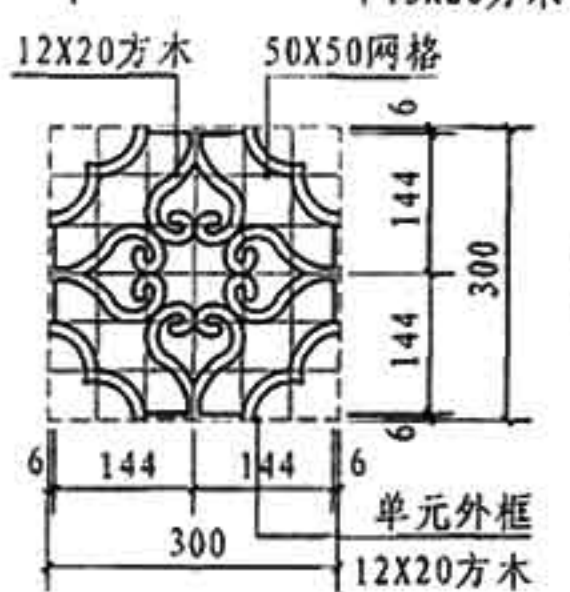
1



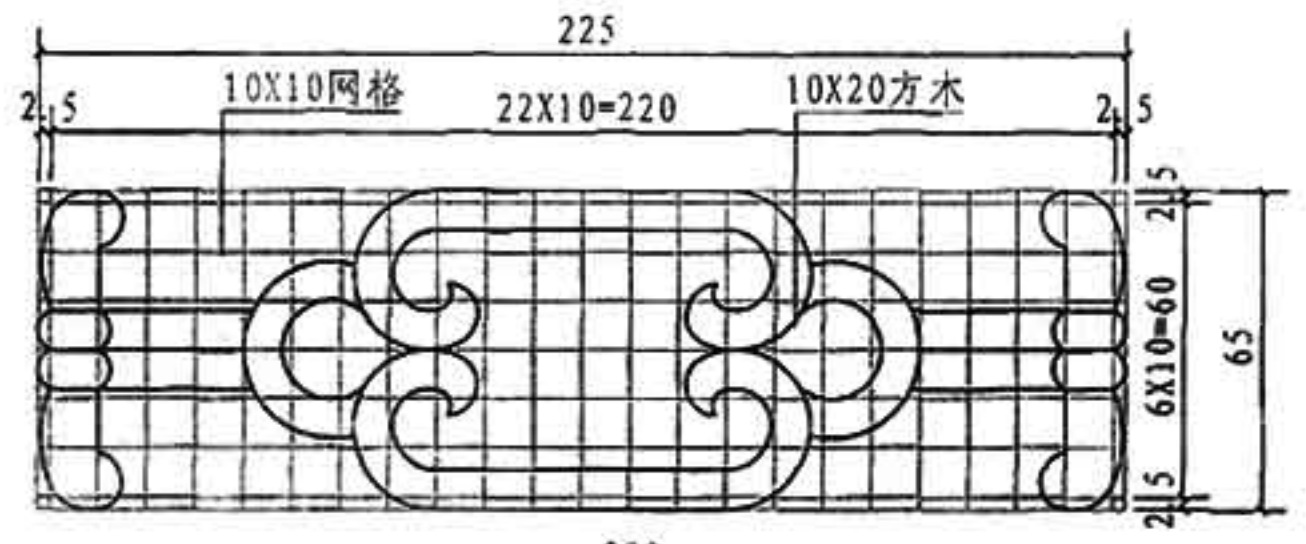
2



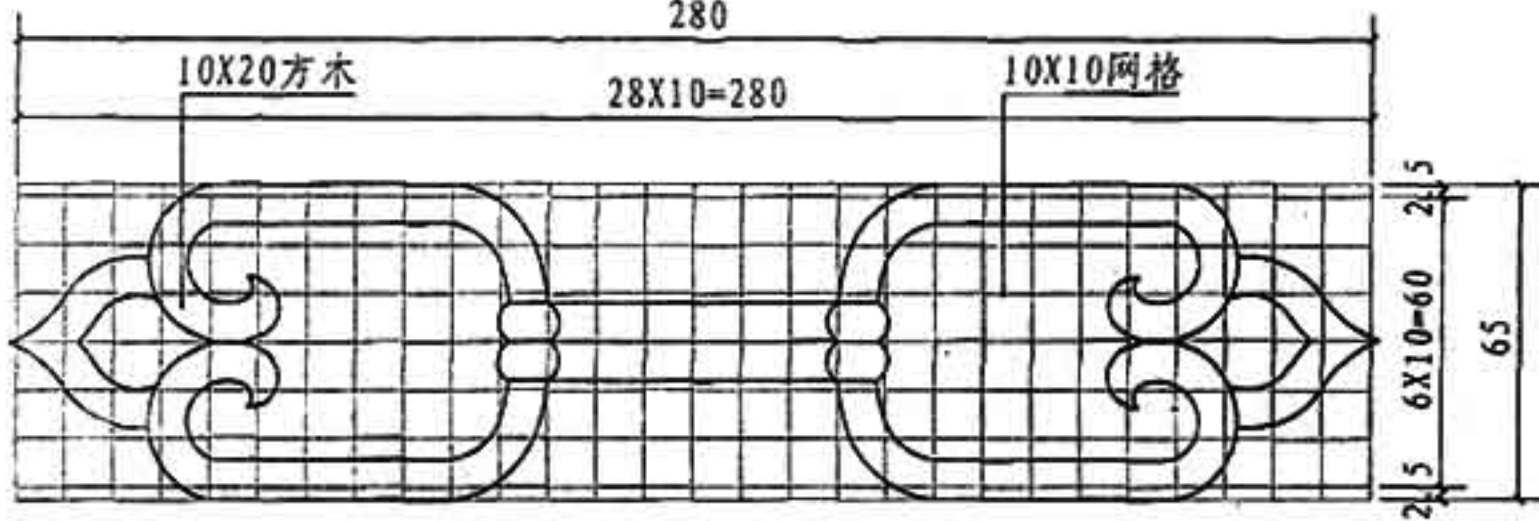
3



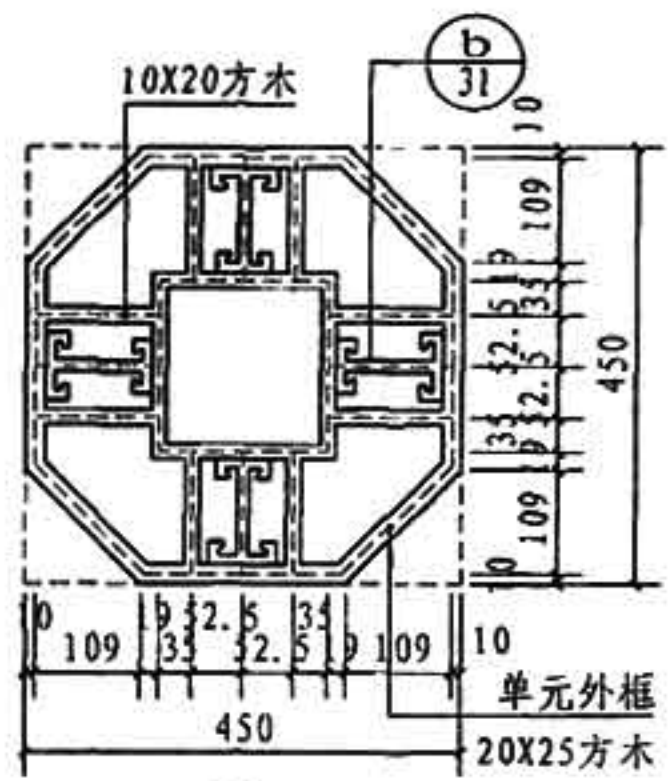
4



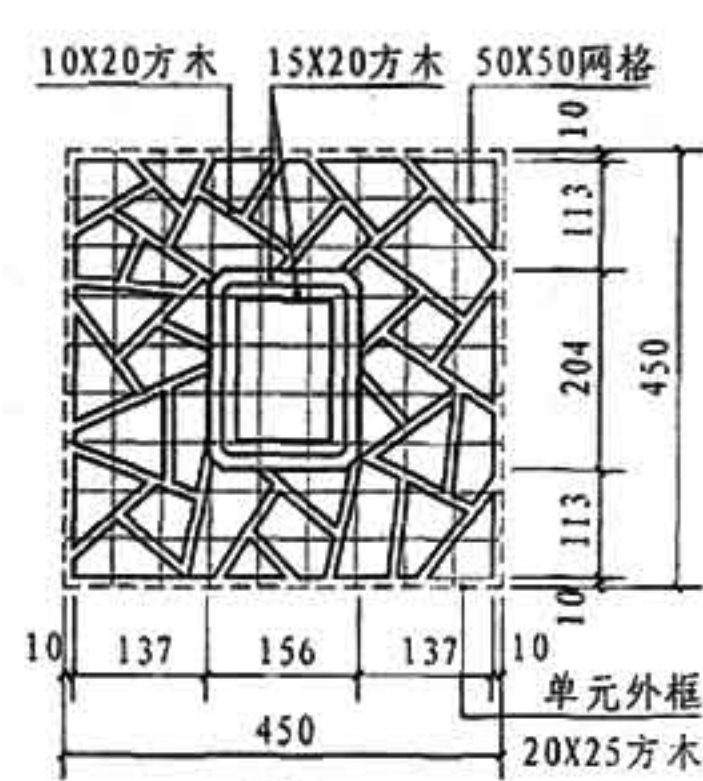
a



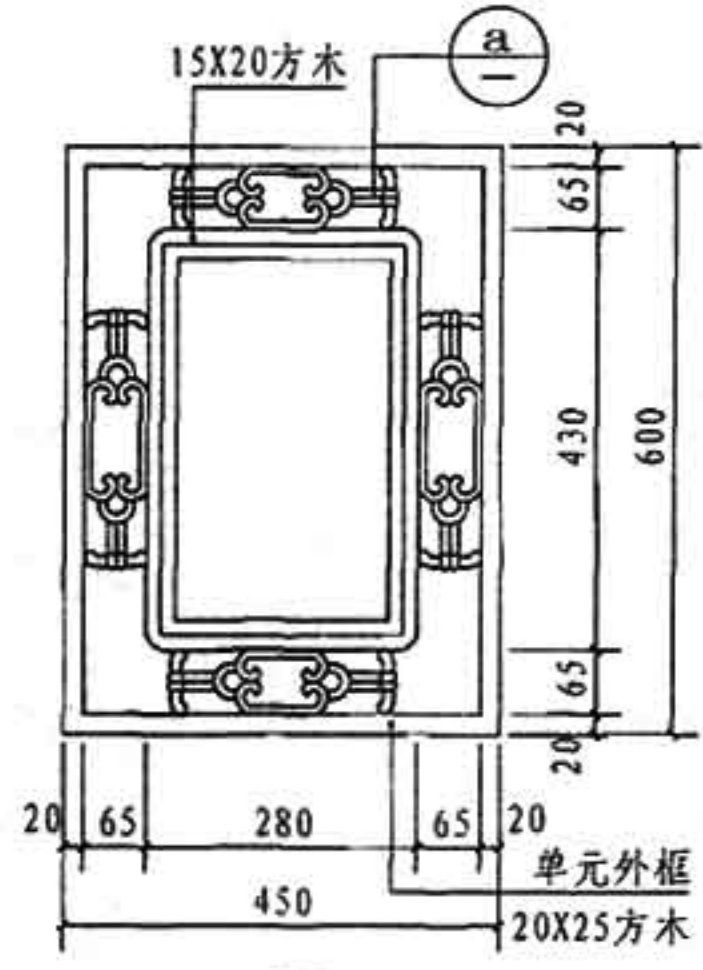
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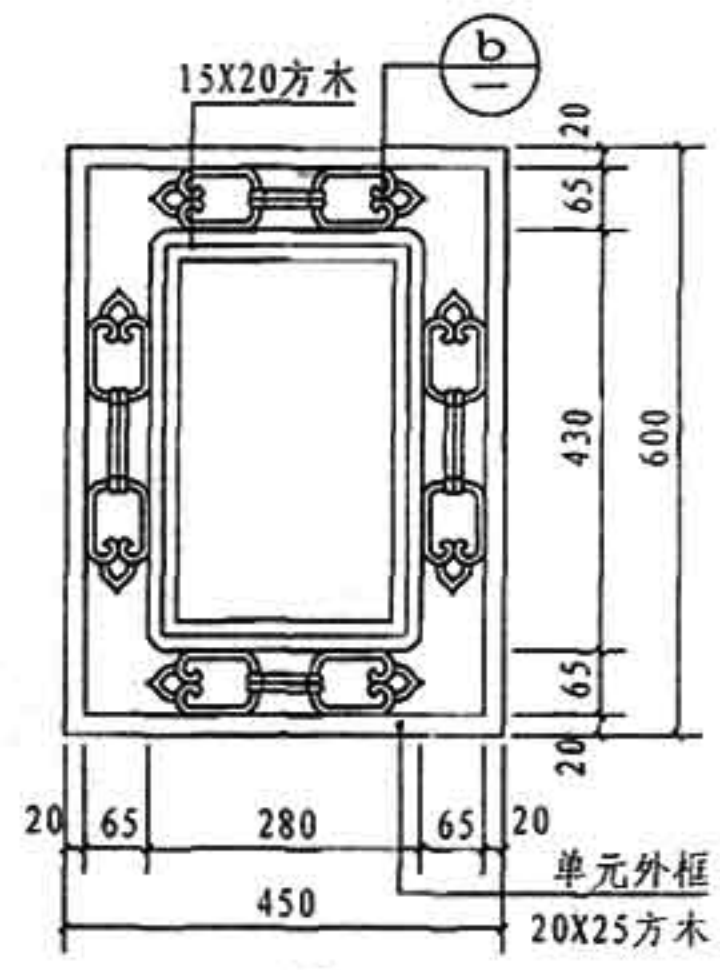
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6

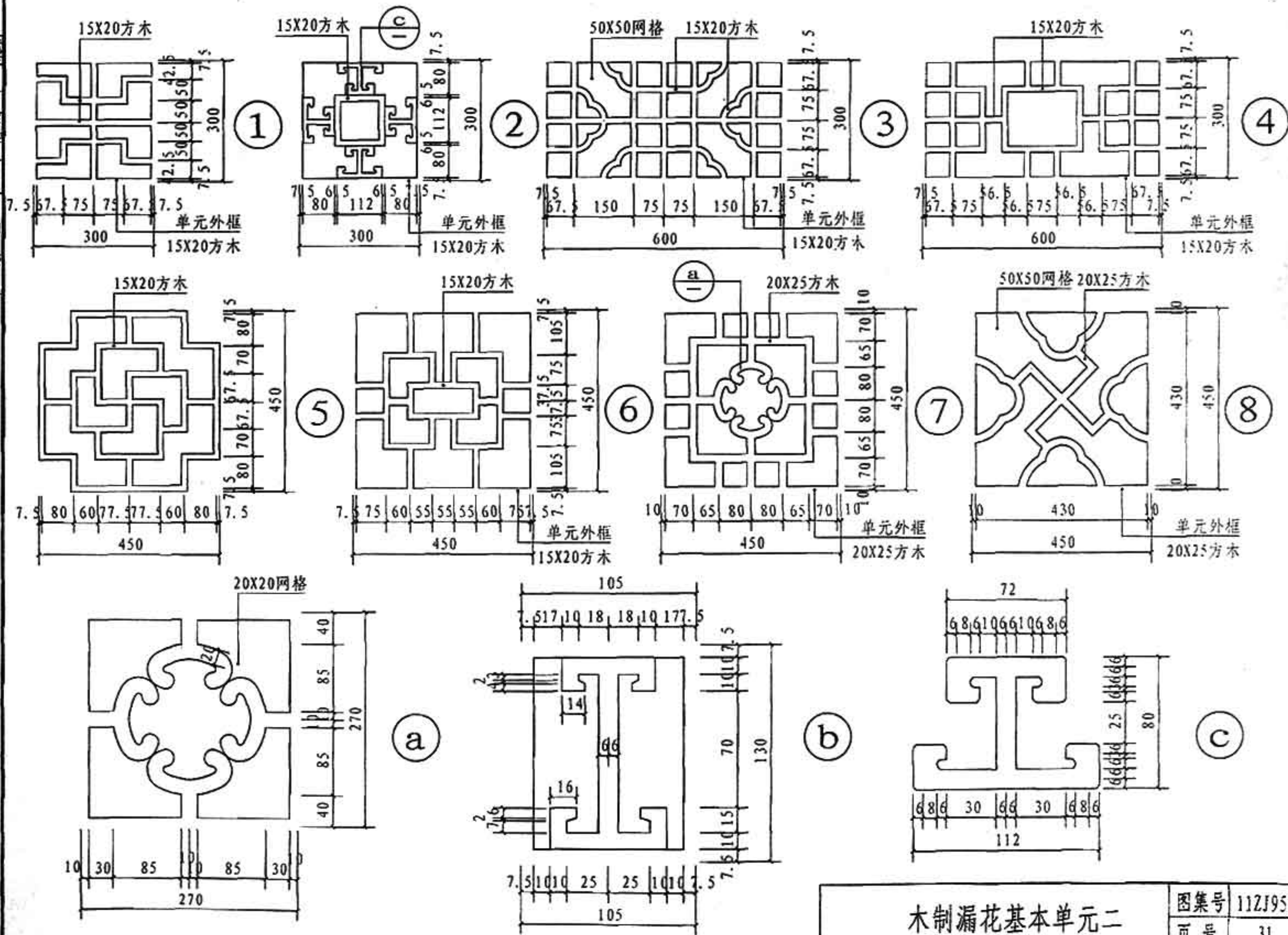


7

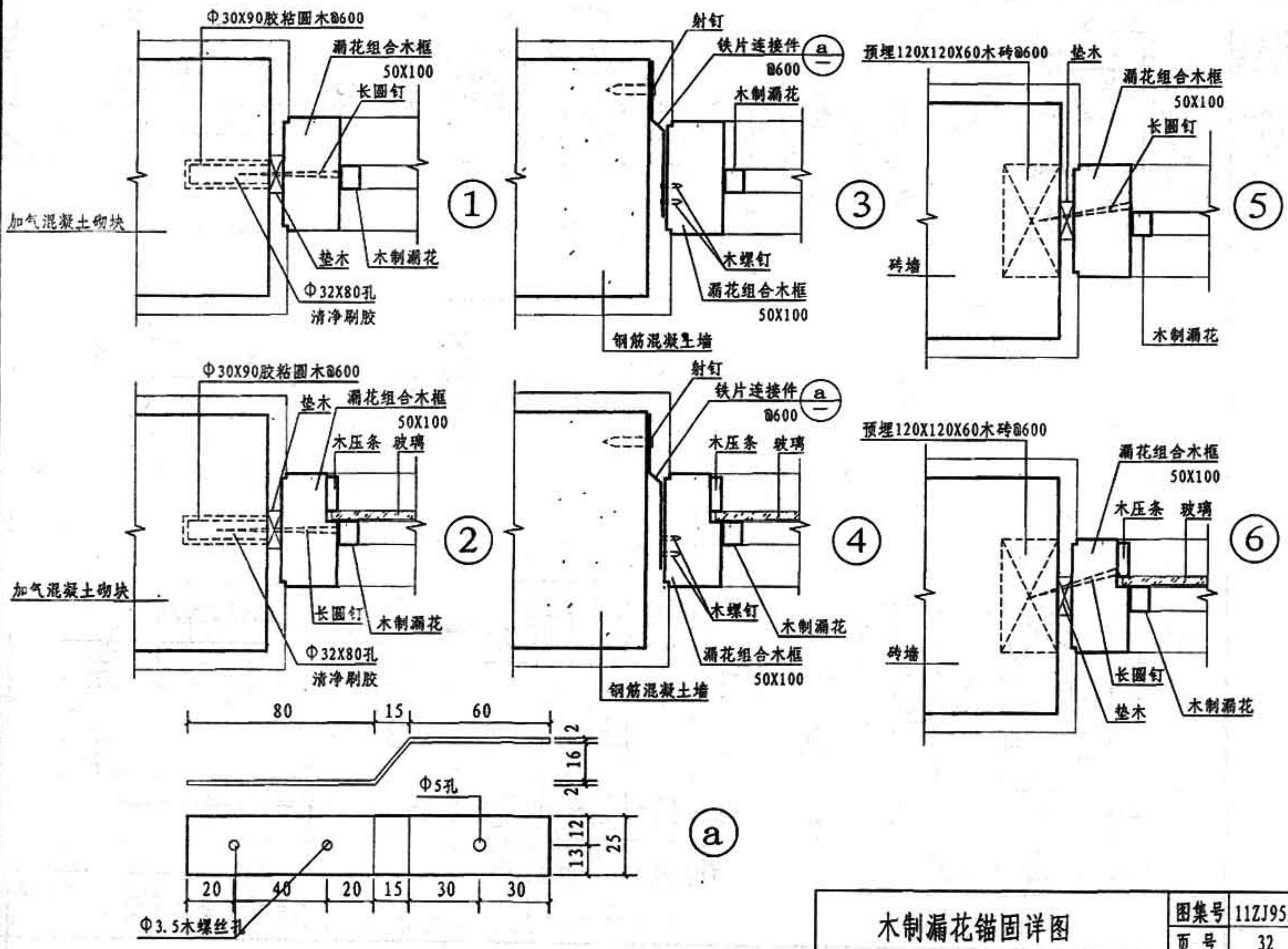


8

木制漏花基本单元一



设计
 审核
 校对
 制图
 日期



木制漏花锚固详图