

# 变 形 缝

批准部门：安徽省建设厅

批准文号：建标[2003]323号

主编单位：煤炭工业部合肥设计研究院 统一编号：DBJT11-24

实行日期：二00三年十二月一日

图 集 号：皖 20003J903

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主编单位技术负责人：周红松

技术审定人：朱晓娟

设计负责人：陆新华

## 目 录

一、目 录.....	1
二、编制说明.....	2
三、外墙变形缝.....	3~6
加气混凝土外墙变形缝.....	7
四、内墙及顶棚变形缝.....	8~14
五、楼地面变形缝.....	15~27



# 编制说明

## 一. 设计依据:

1. 安徽省建设厅建设[2002]60号关于下达省工程建设标准设计图集编制计划的通知.
2. <<建筑抗震设计规范>>(GB50011-2001)
3. <<房屋建筑制图统一标准>>(GB/T50001-2001)
4. <<民用建筑设计通则>>(JGJ37-87)
5. <<高层民用建筑设计防火规范>>(GB50045-95)
6. <<建筑地面设计规范>>(GB50037-96)

## 二. 适用范围:

1. 本图集适用一般工业与民用建筑的变形缝(伸缩缝. 沉降缝. 抗震缝).
2. 不适用于地下工程. 室外工程的变形缝.
3. 屋面变形缝见屋面防水设计图集.

## 三. 主要设计内容:

1. 外墙变形缝.
2. 内墙及顶棚变形缝.
3. 楼. 地面变形缝.

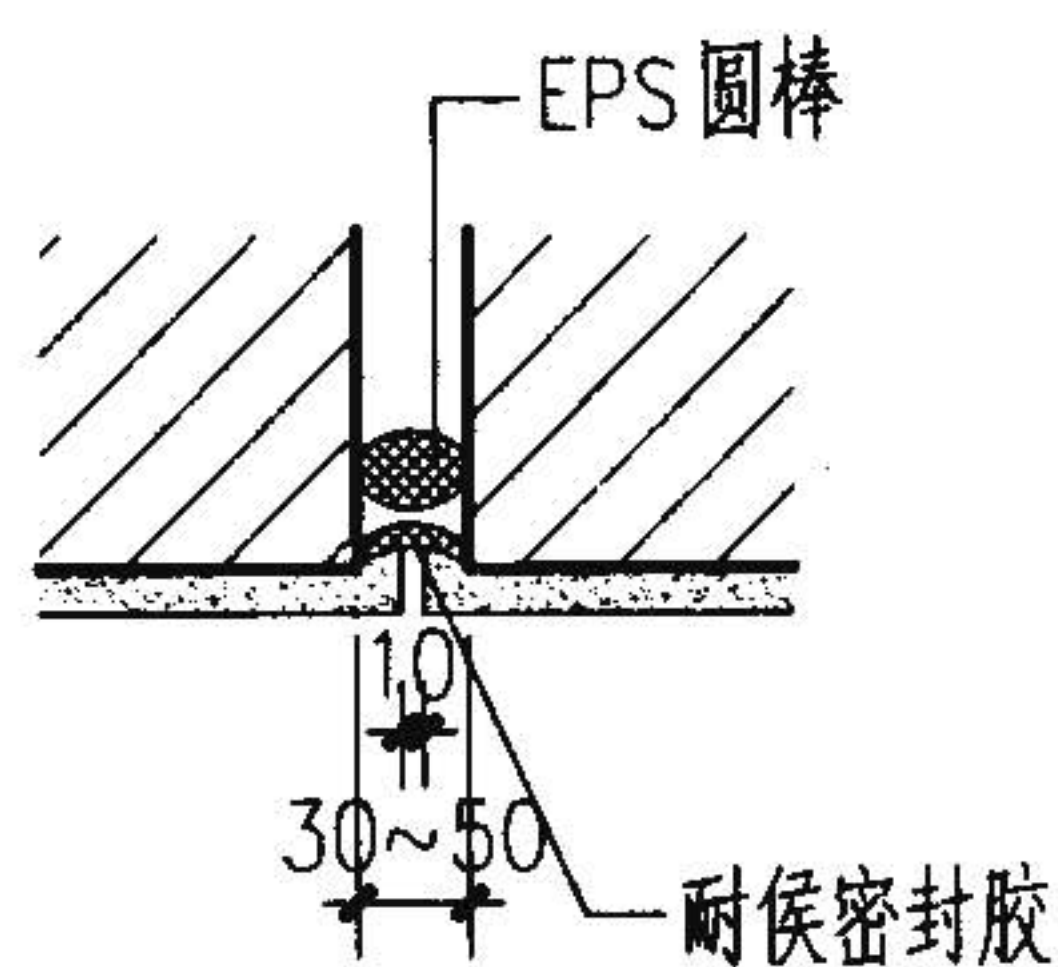
## 四. 设计. 施工. 材料要求.

1. 本图集所示尺寸以毫米(mm)为单位.
2. 变形缝宽度由单体工程确定.
3. 凡外露木构件以清油打底, 刷调合漆二度. 镀锌铁皮内外表面刷防锈漆一度, 外露表面刷调合漆二度.
4. 凡预埋木砖. 木条均需经防腐处理, 图中凡未标注尺寸的预埋木砖均为120X120X60.
5. 构件与墙体. 楼板连接处除注明外均用膨胀螺栓固定.
6. 木砖须在砌墙时同时预埋, 木砖与其它构件连接除注明外均为平头木螺丝.
7. 本图集所用防腐剂应阻燃. 无污染.
8. 泡沫塑料建议采用阻燃. 软质. 无污染的聚苯乙烯.
9. 本图集所示未尽之处均应遵照国家现行施工及验收规范有关规定执行.

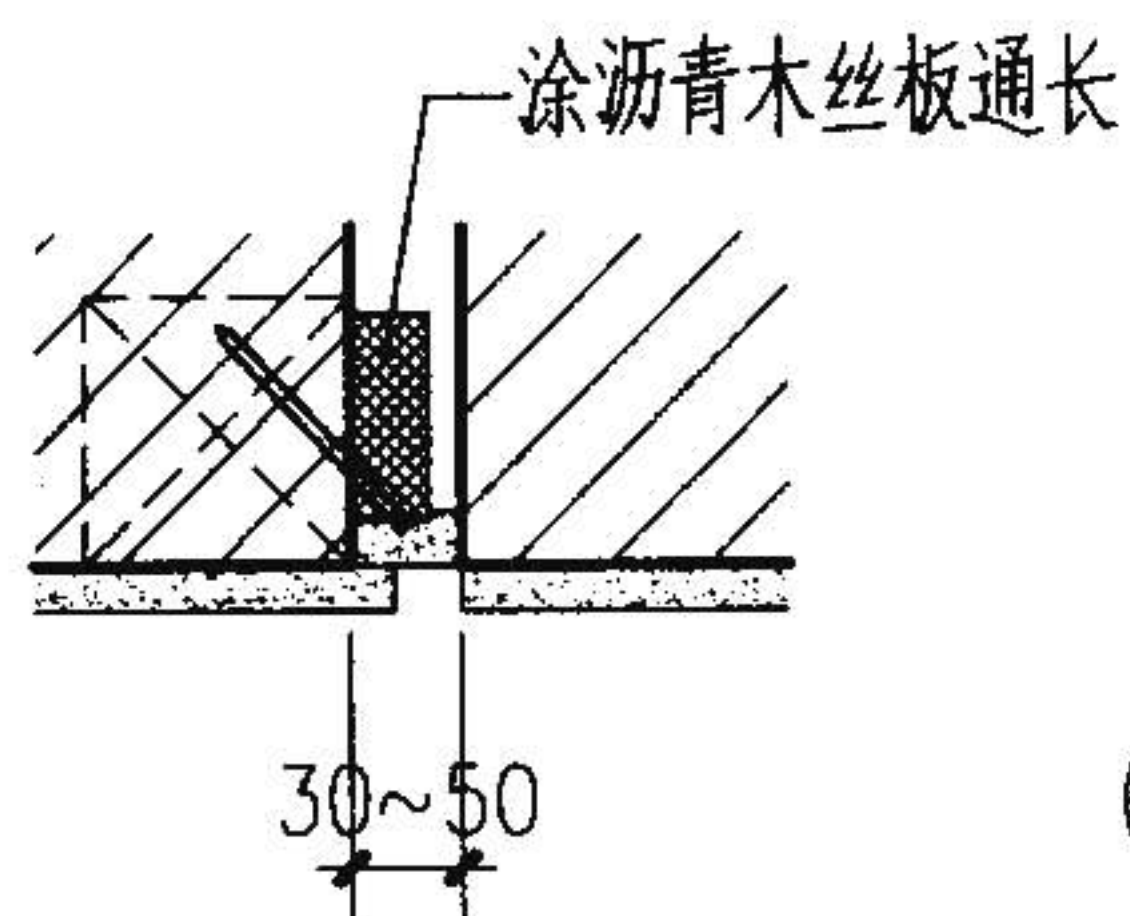
五. 本图集索引方法: 皖2002J

—— 详图编号  
X  
X  
—— 详图所在页数

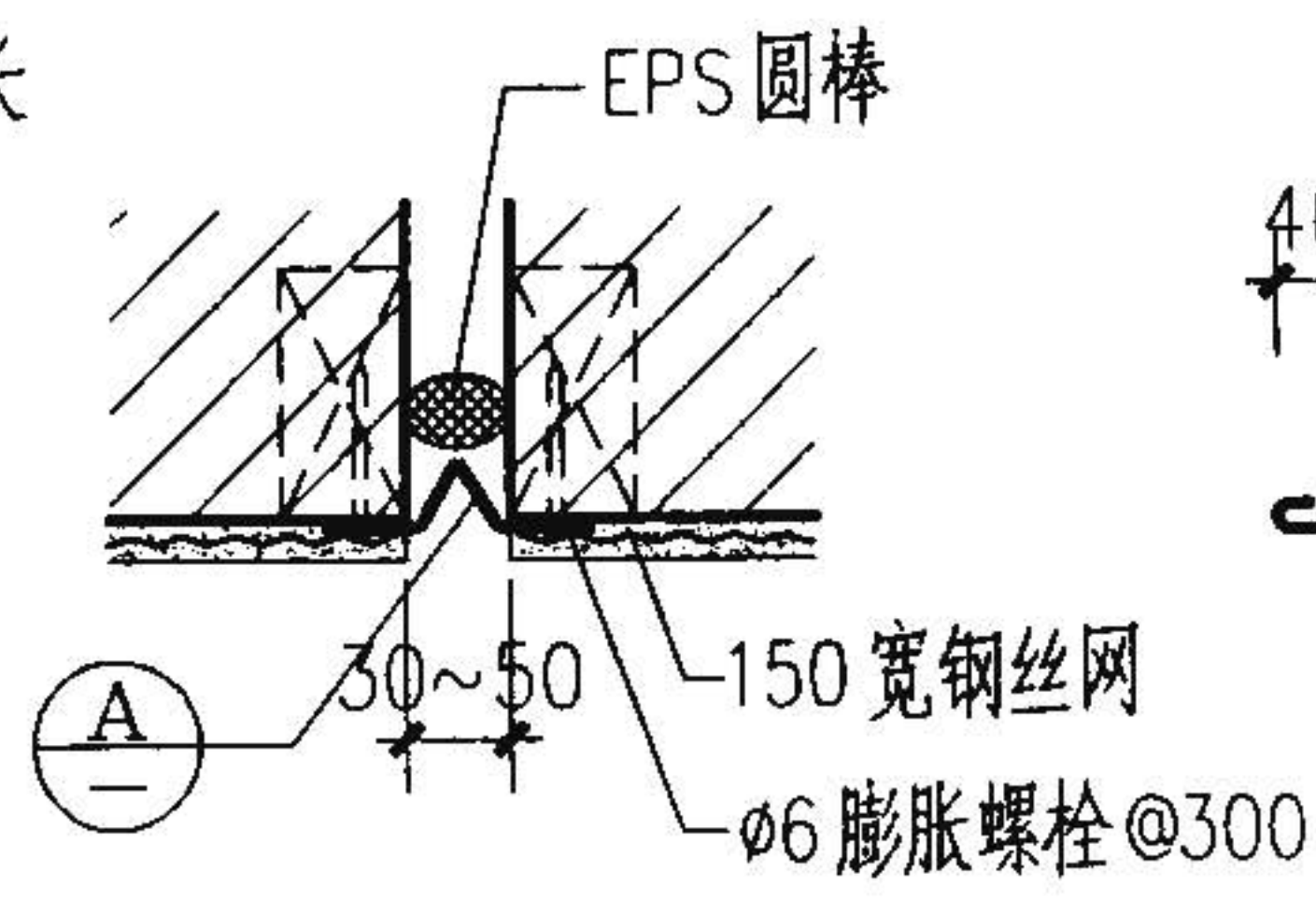




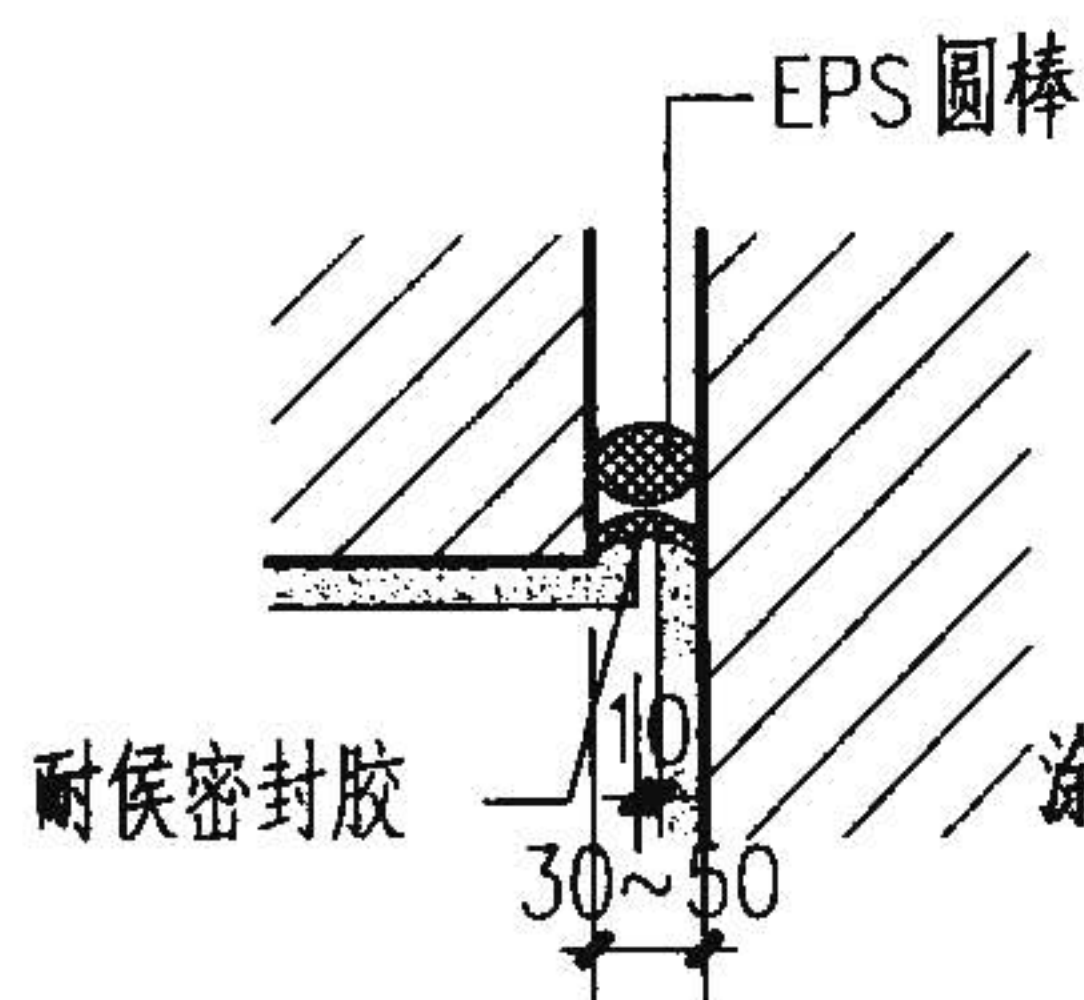
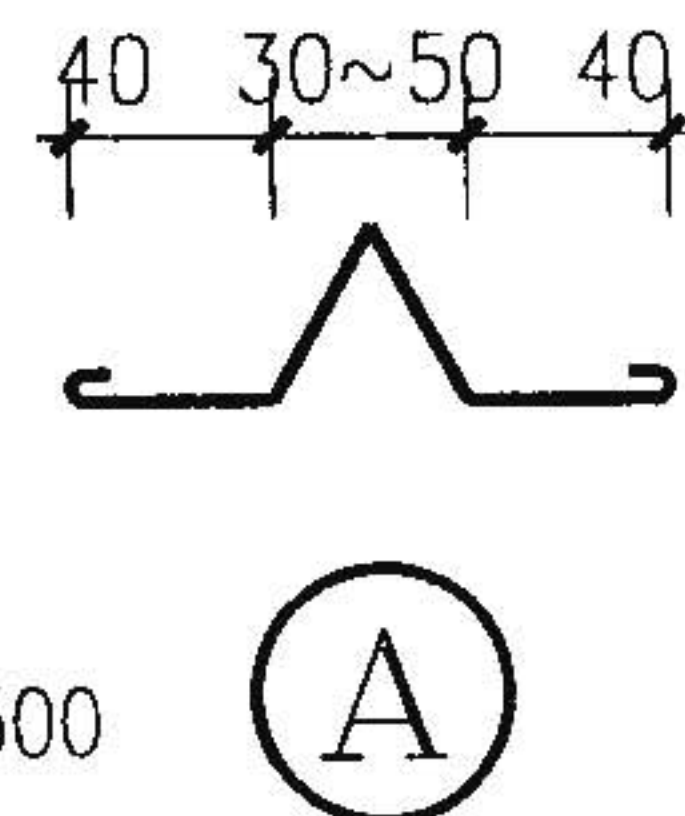
①



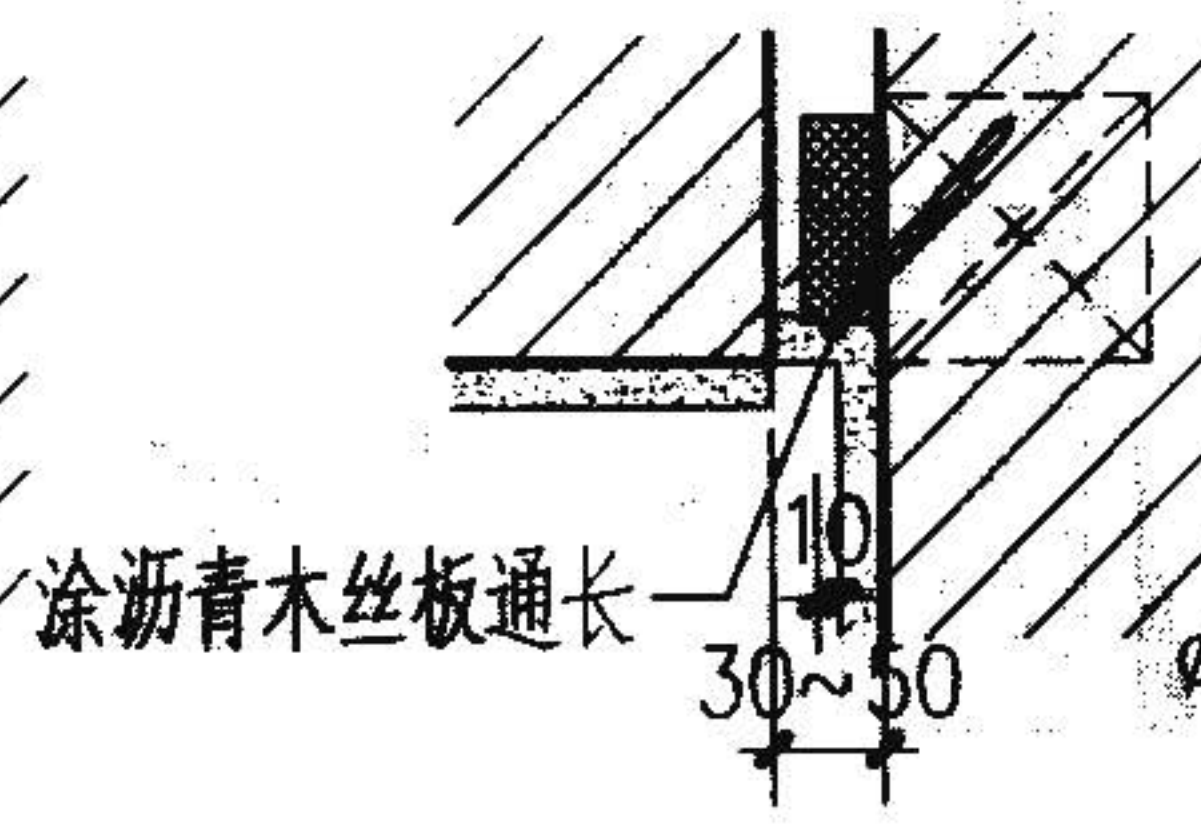
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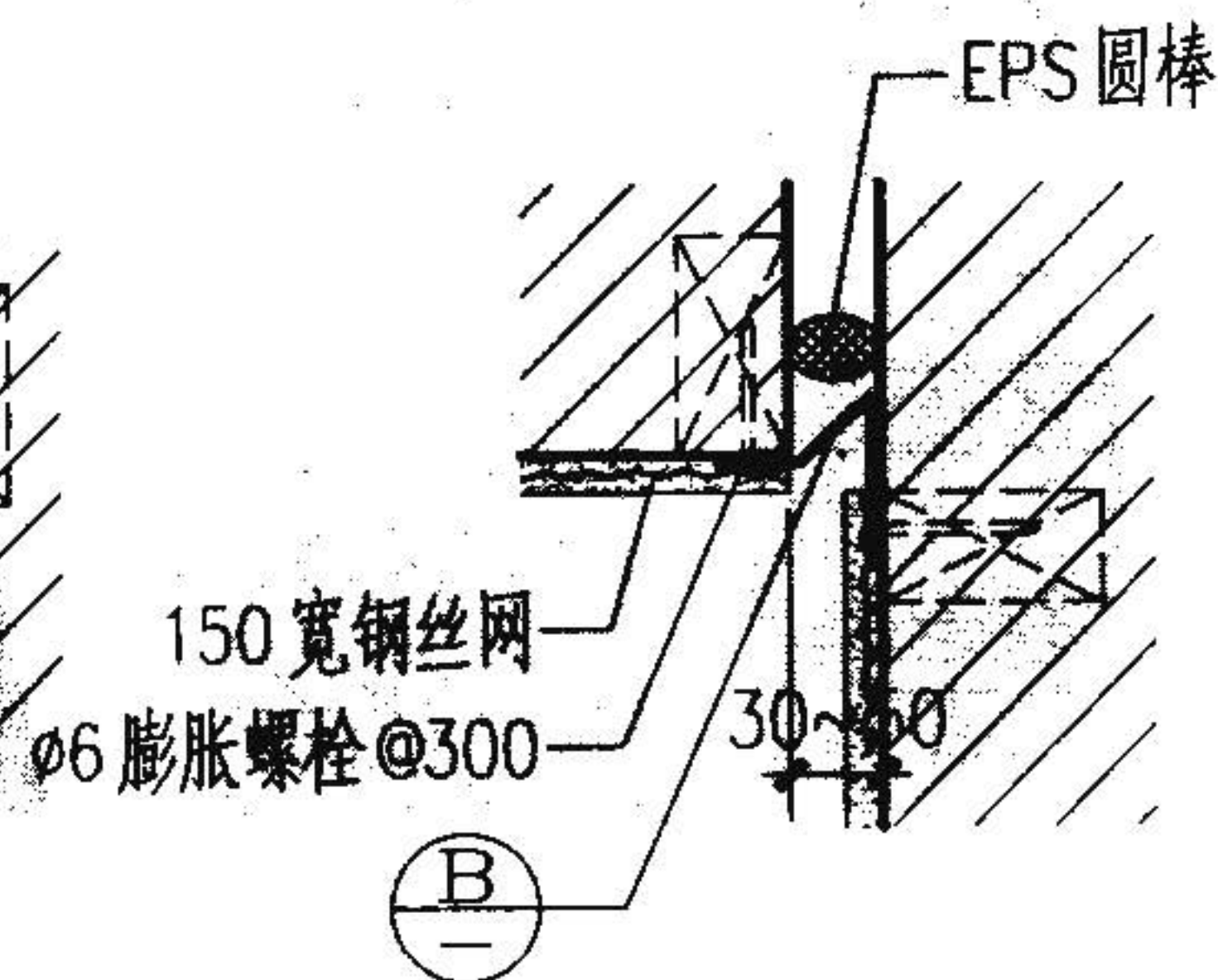
⑤



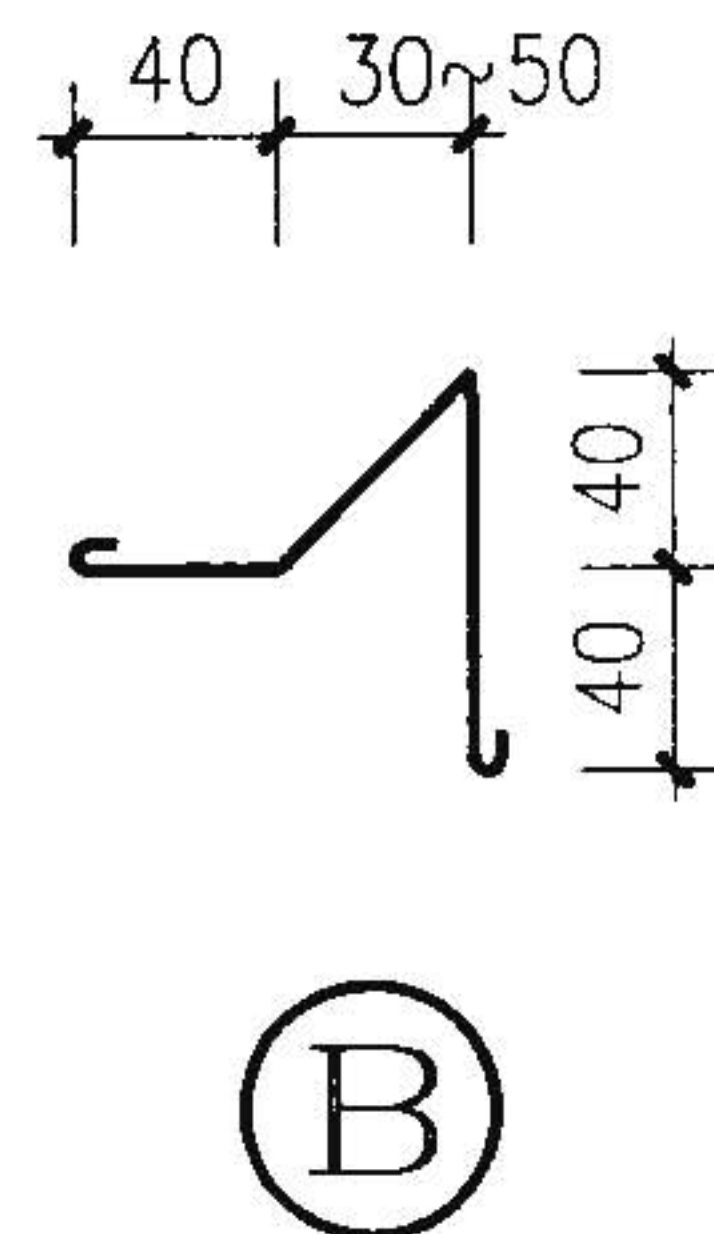
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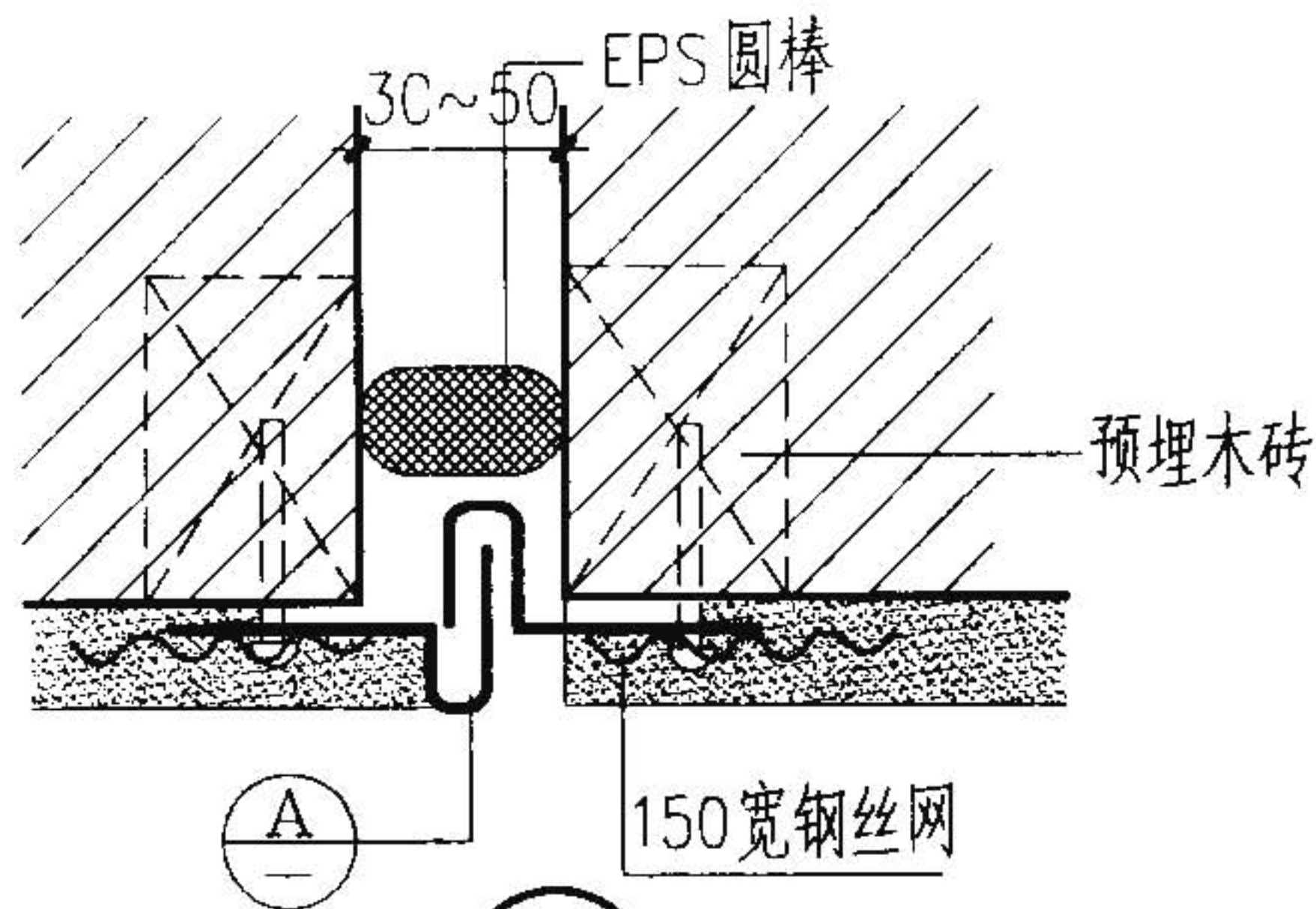
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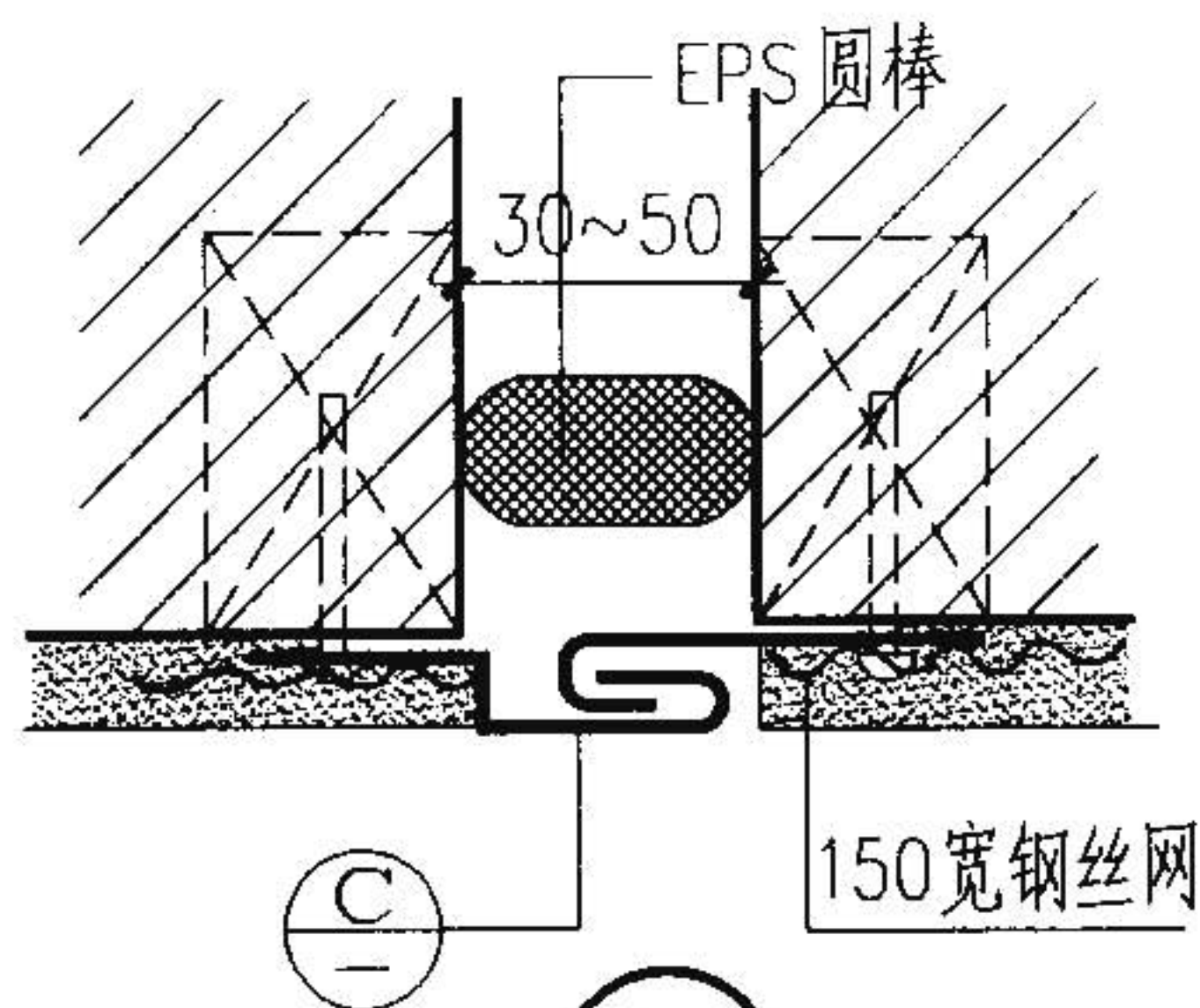
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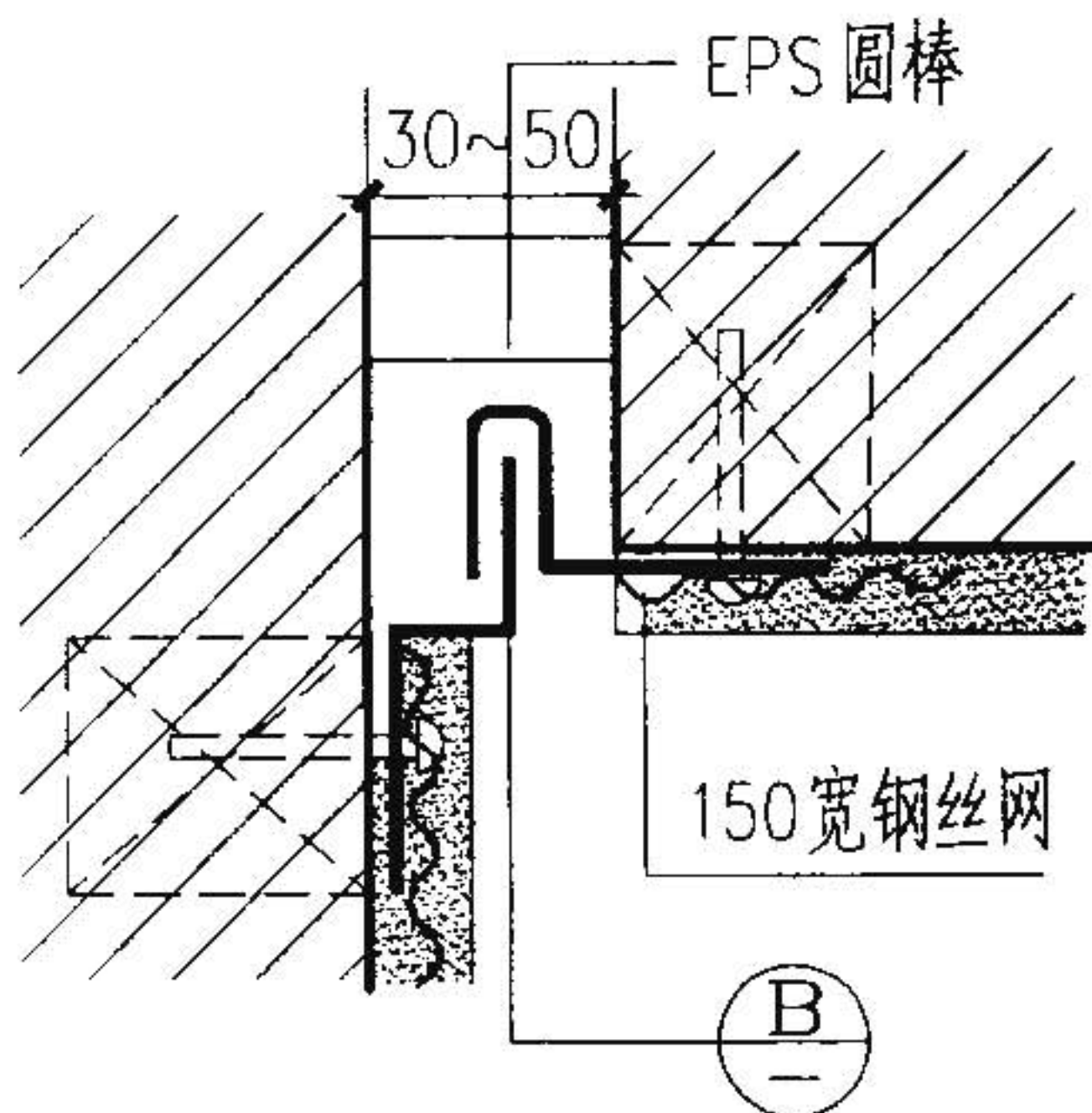




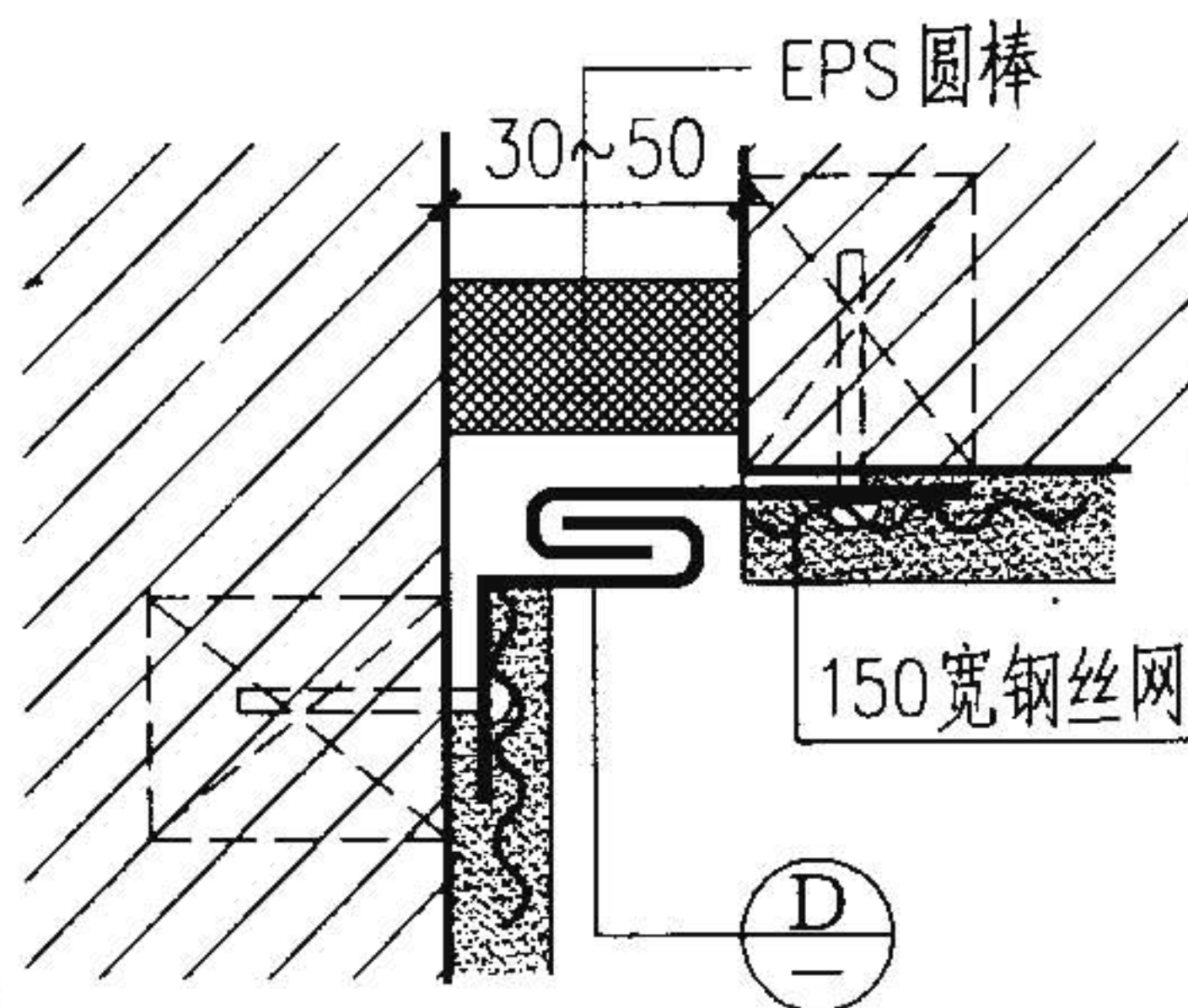
① a.b.c



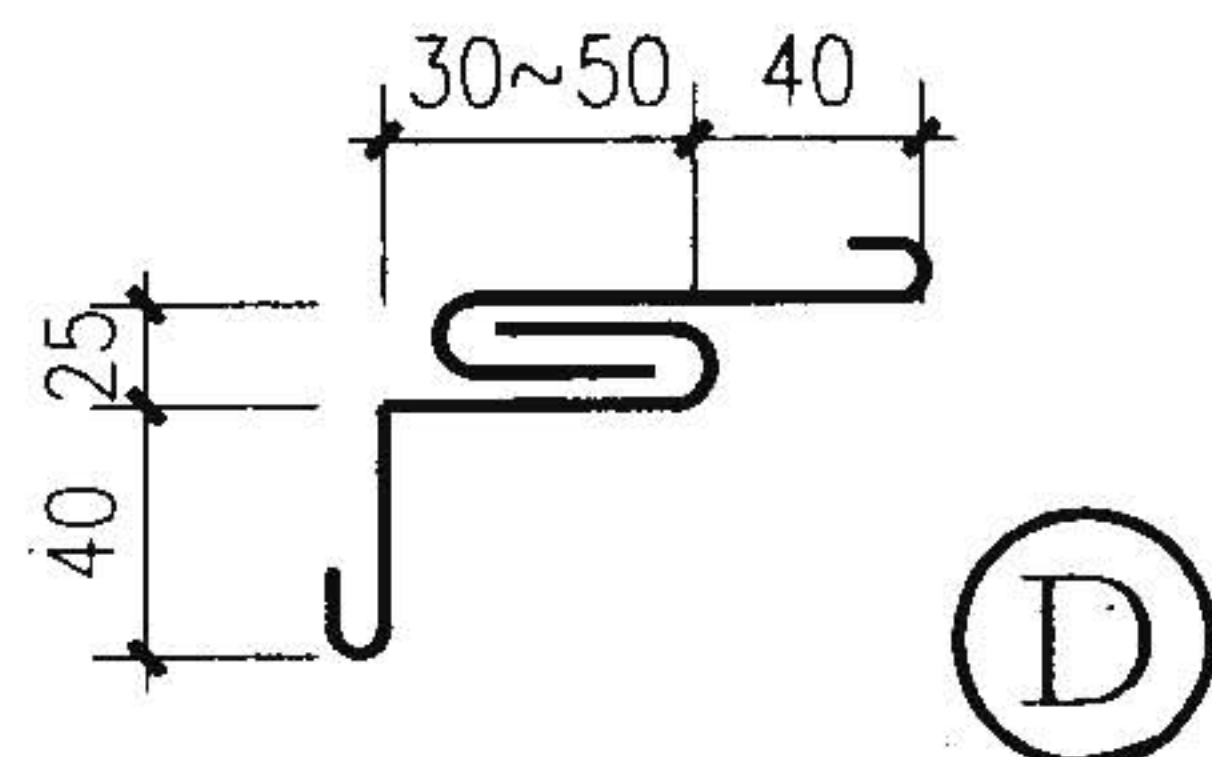
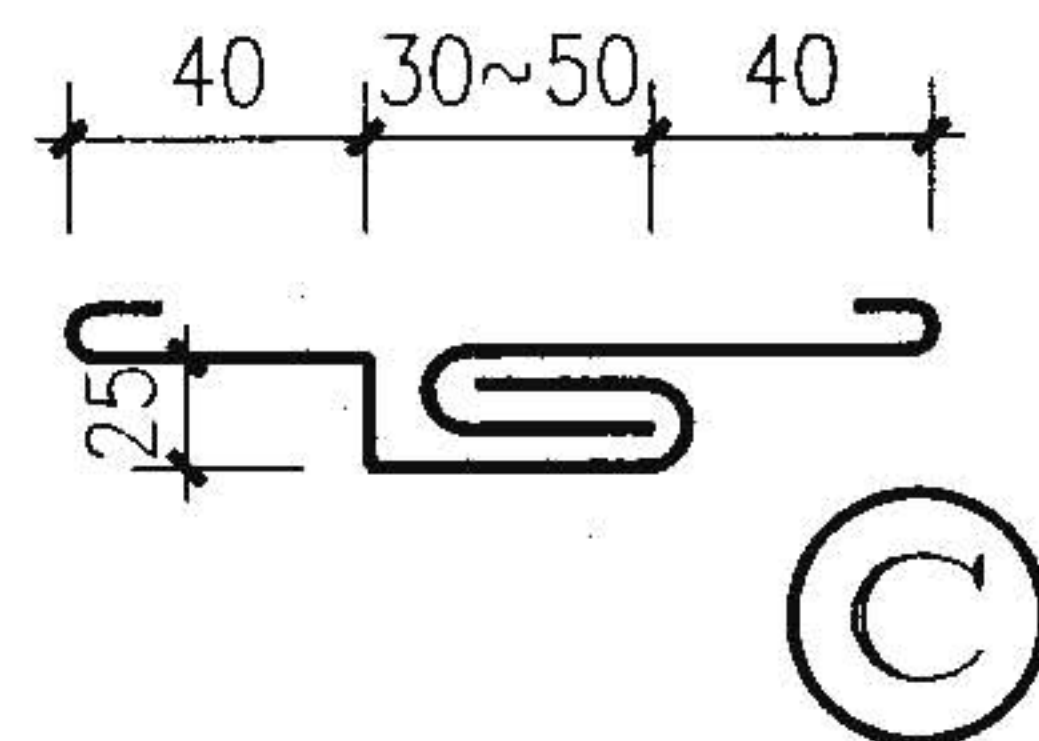
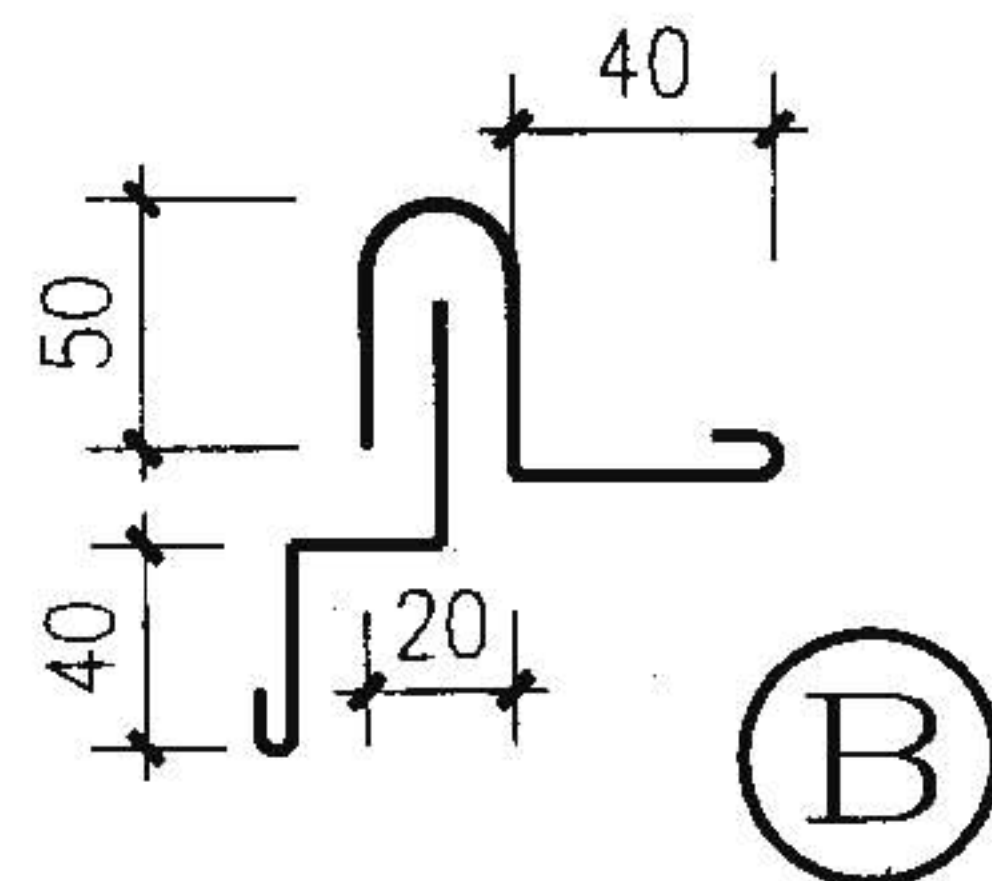
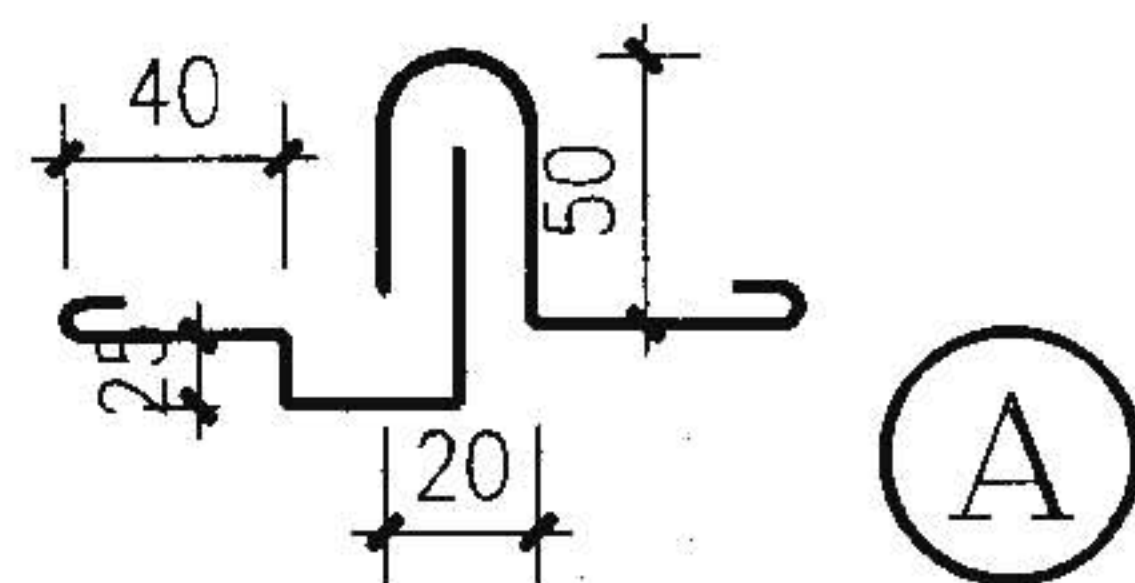
③ a.b.c



② a.b.c



④ a.b.c



注: a 为 0.6 厚镀锌铁皮  
b 为 0.6 厚不锈钢板  
c 为 1.2 铝合金板

校	对	设计
设	计	图
制	图	



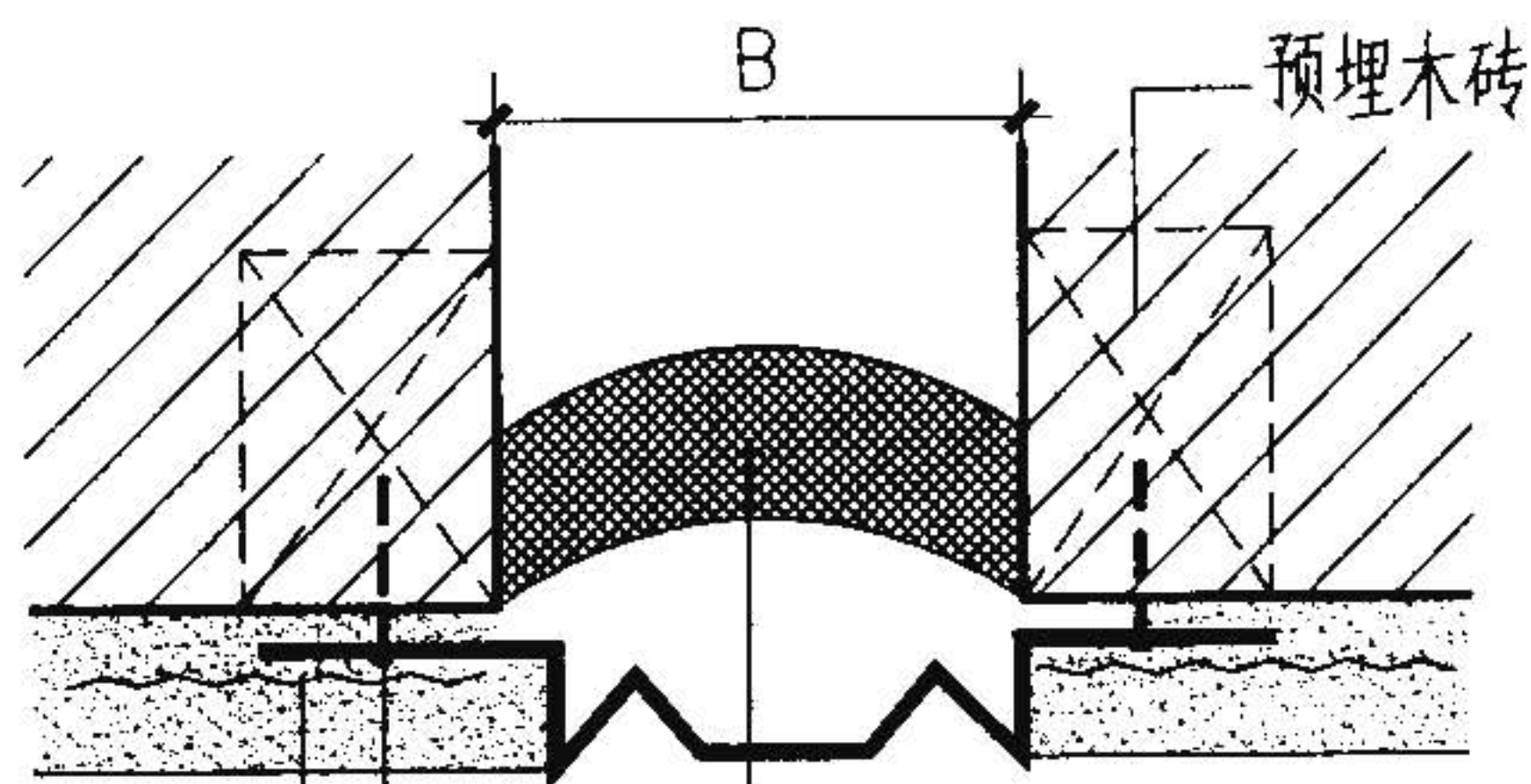
①

a.b.c

150宽钢丝网  
 $\phi 6$ 膨胀螺栓@300

50厚阻燃 EPS  
 用建筑胶粘牢

①



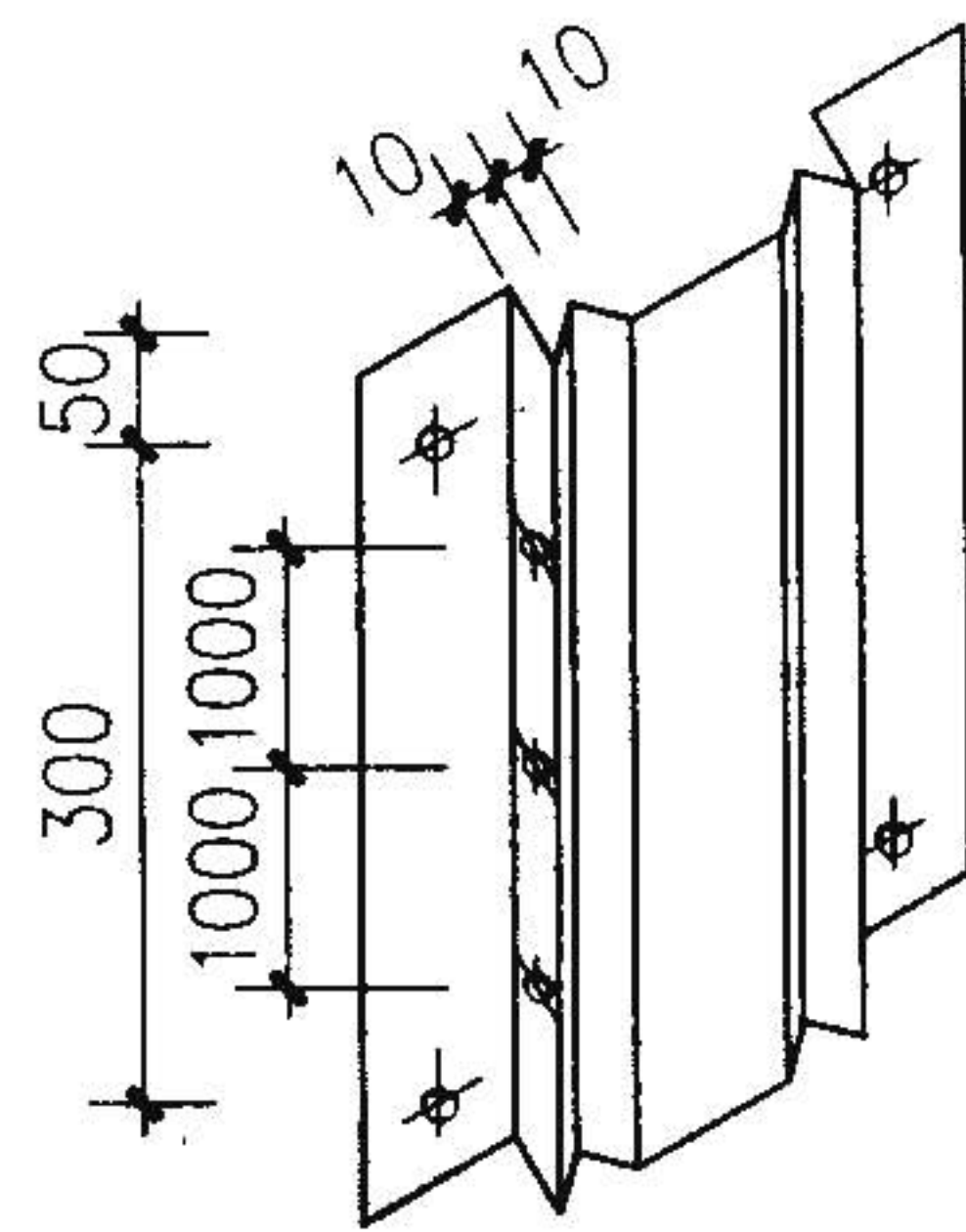
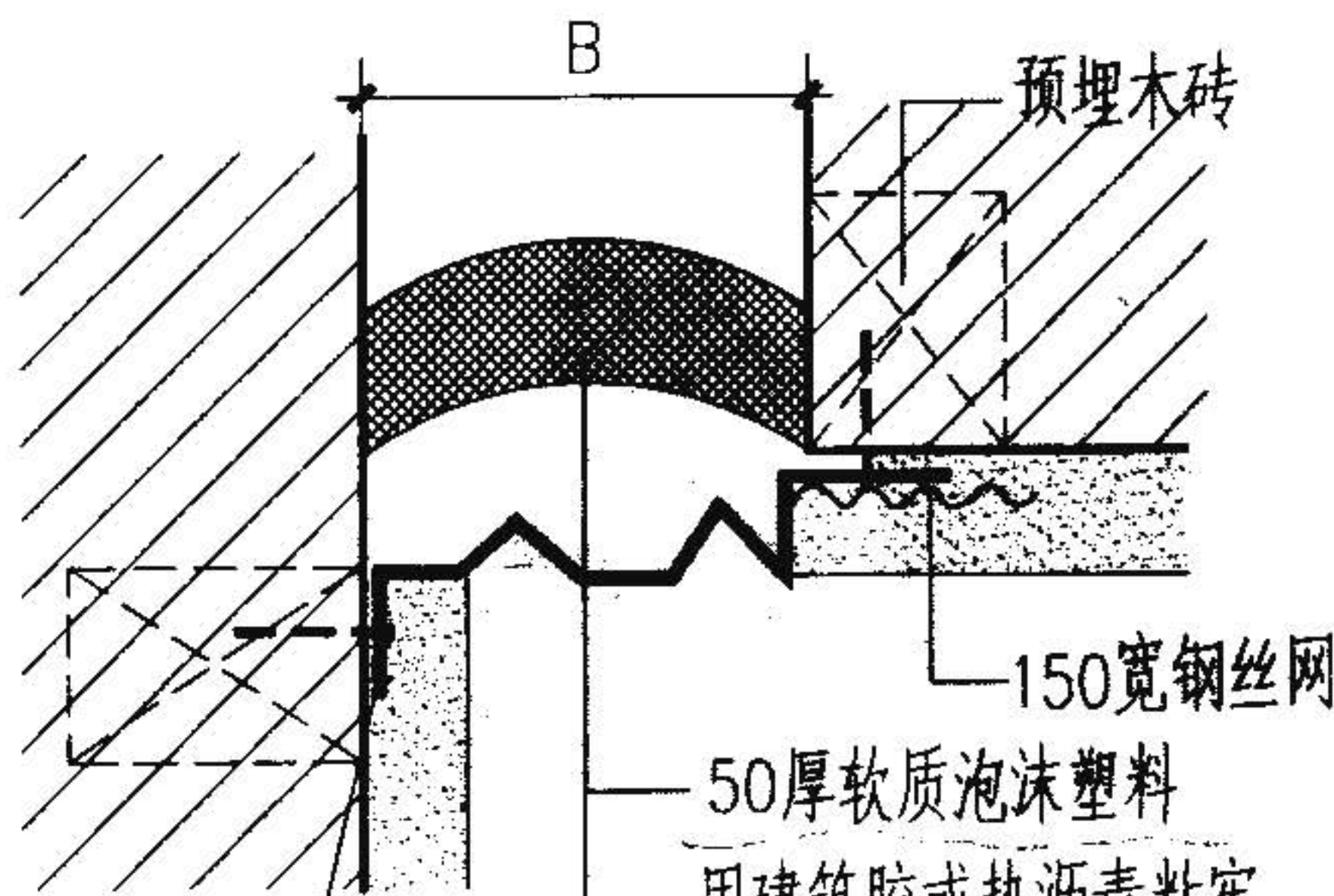
②

a.b.c

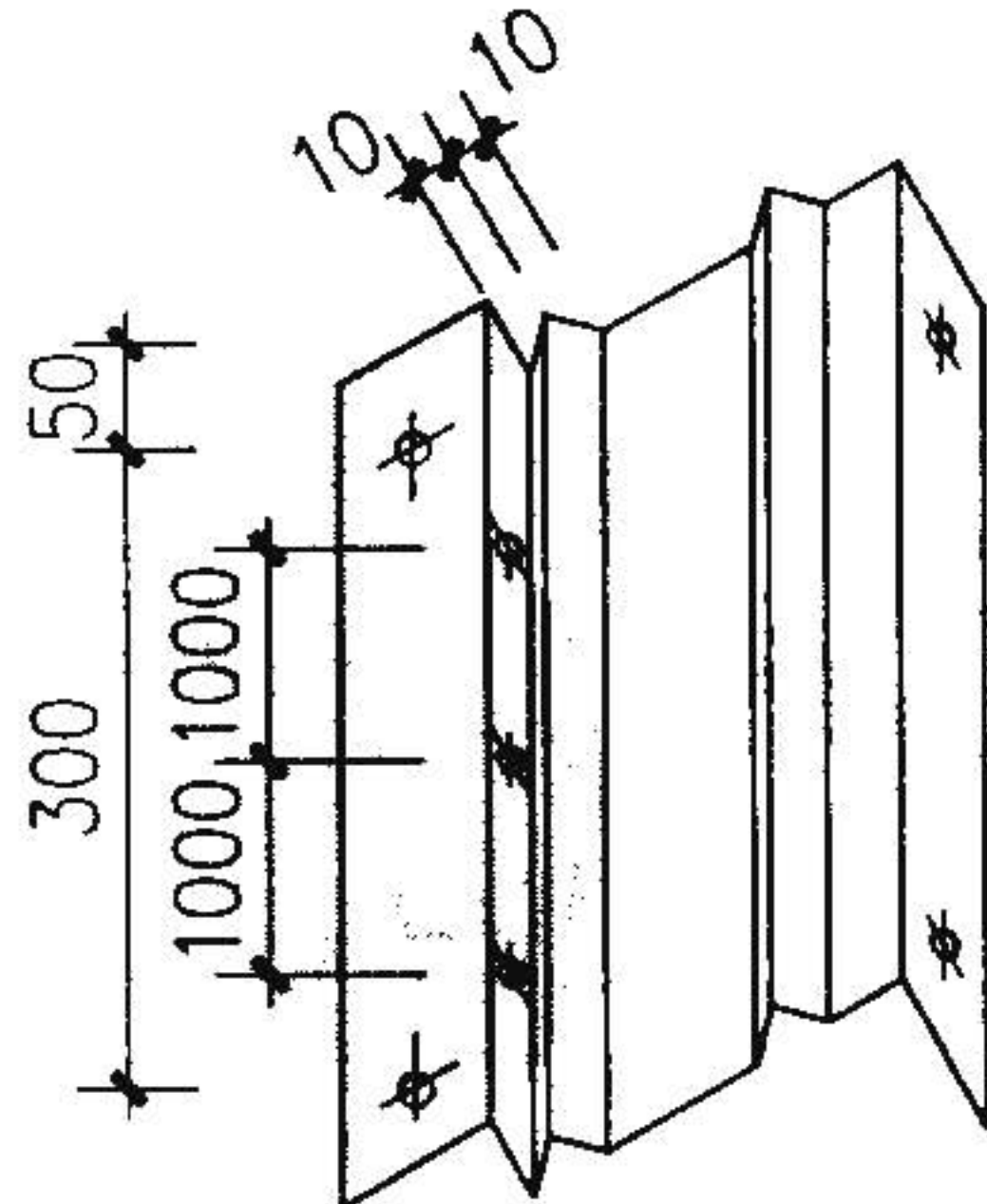
$\phi 6$ 膨胀螺栓@300

50厚软质泡沫塑料  
 用建筑胶或热沥青粘牢

②



①



②

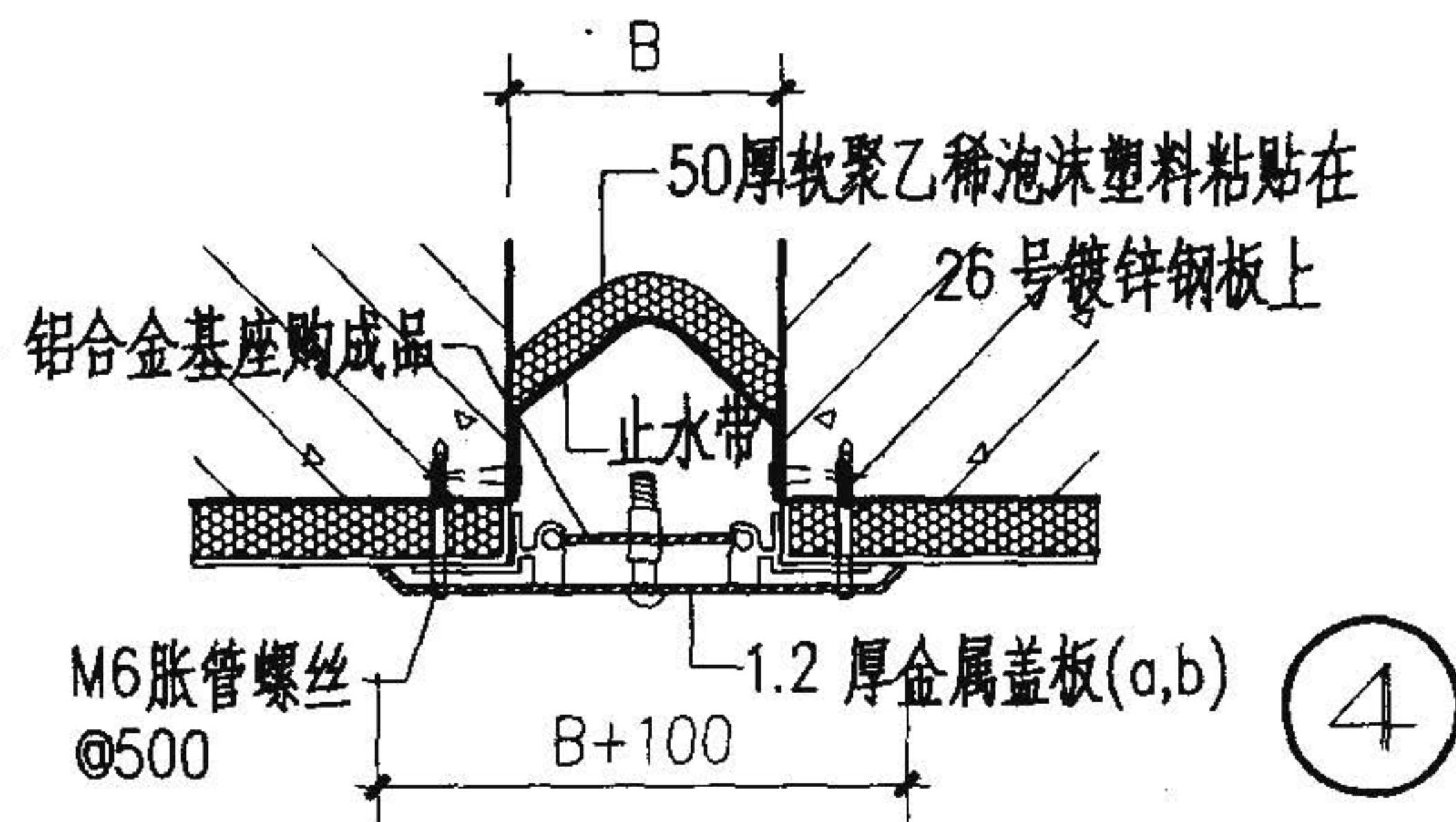
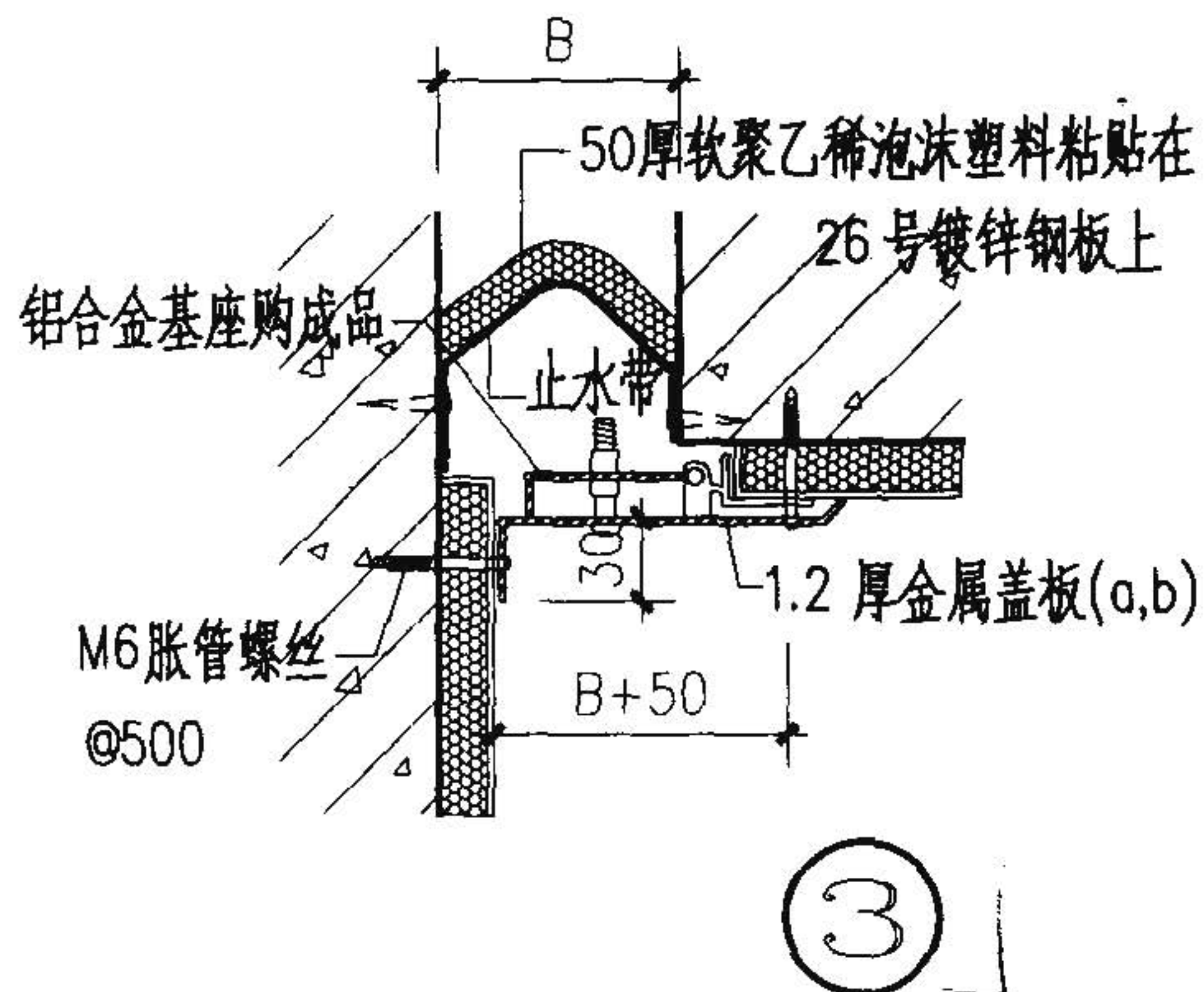
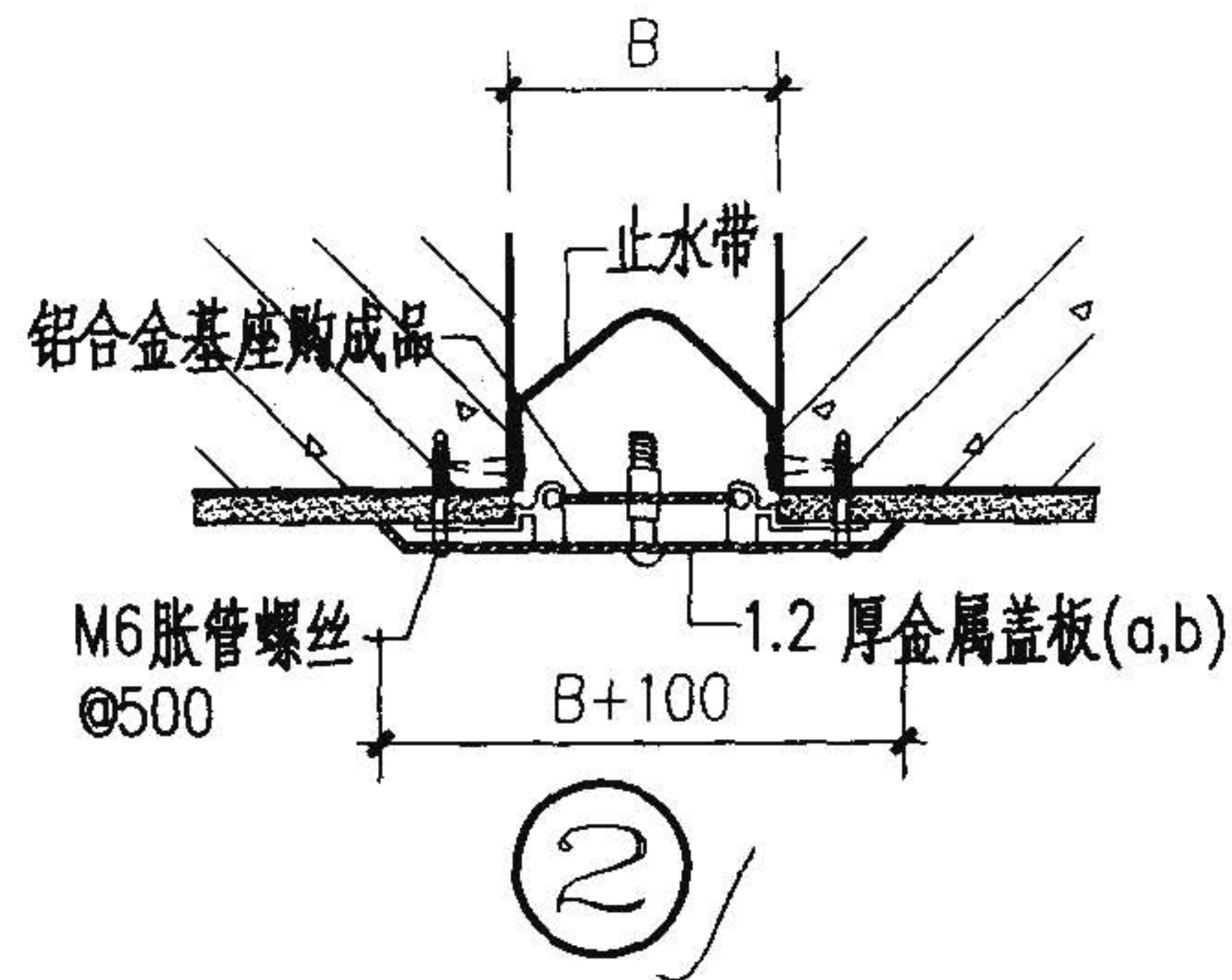
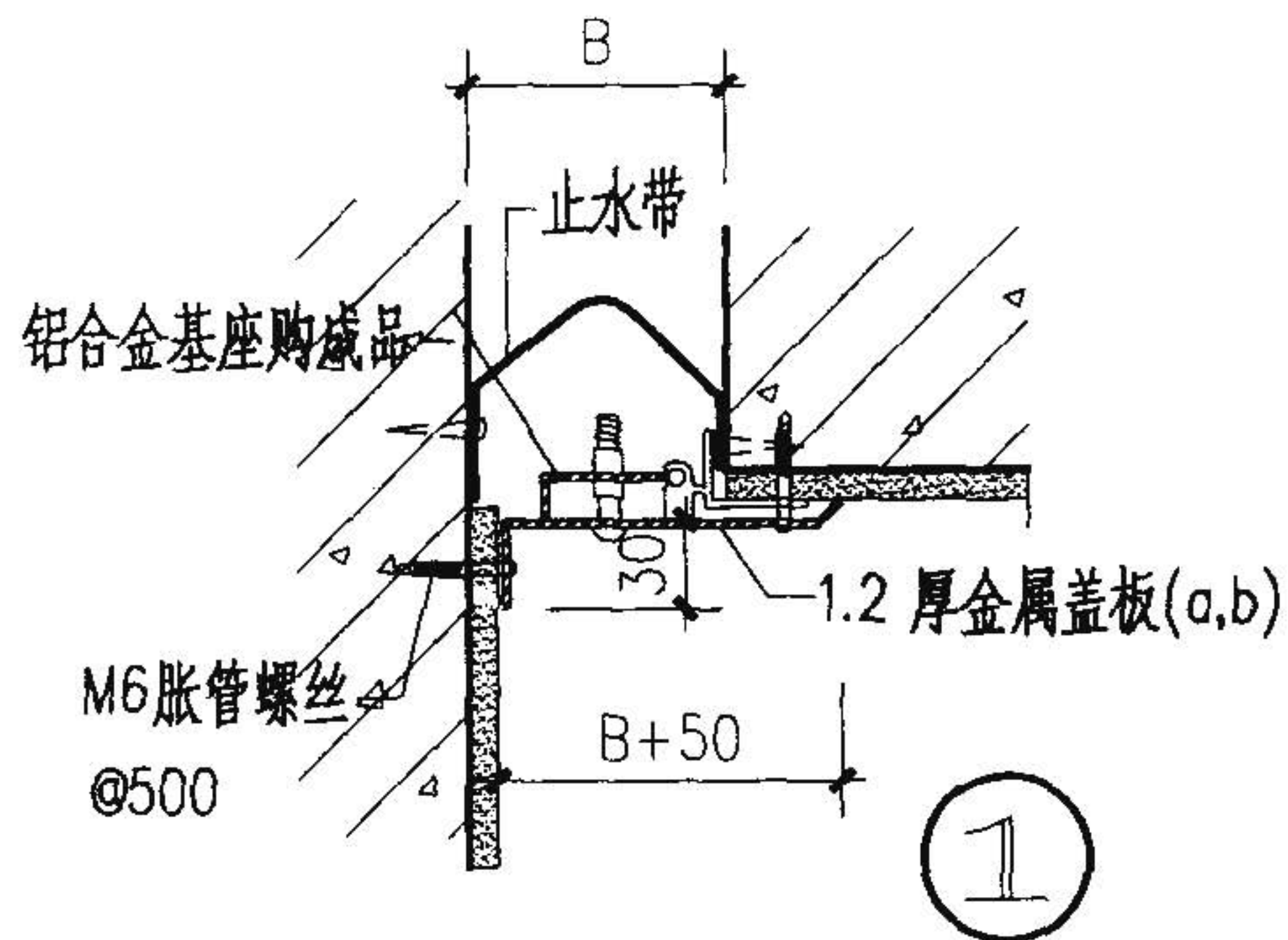
注 1. 缝宽B见单体工程图  
 2. a 为 0.6 厚镀锌铁皮  
 b 为 0.6 厚不锈钢板  
 c 为 1.2 厚铝合金板

校	对	工
设	计	部
制	图	件

外墙变形缝(三)

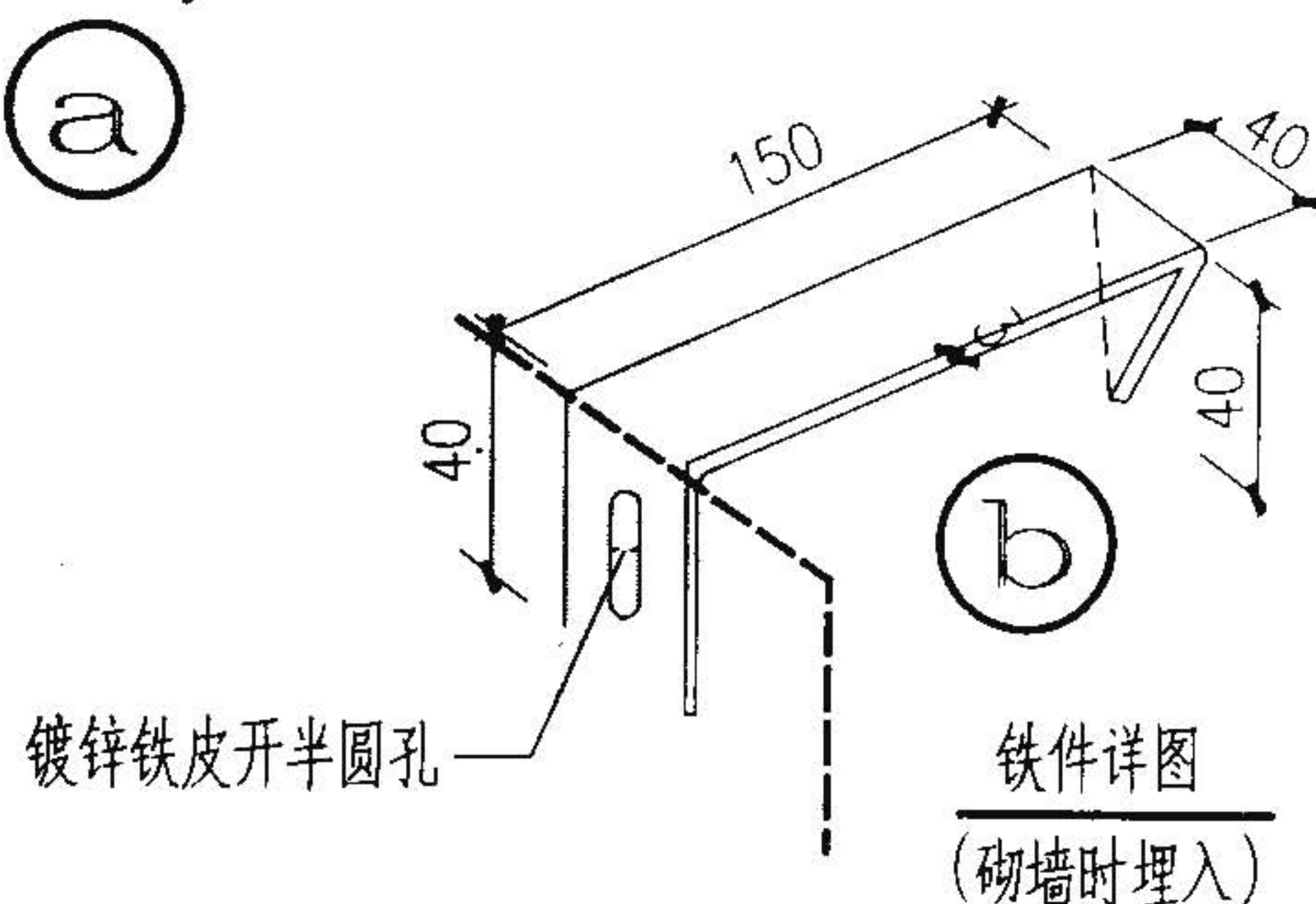
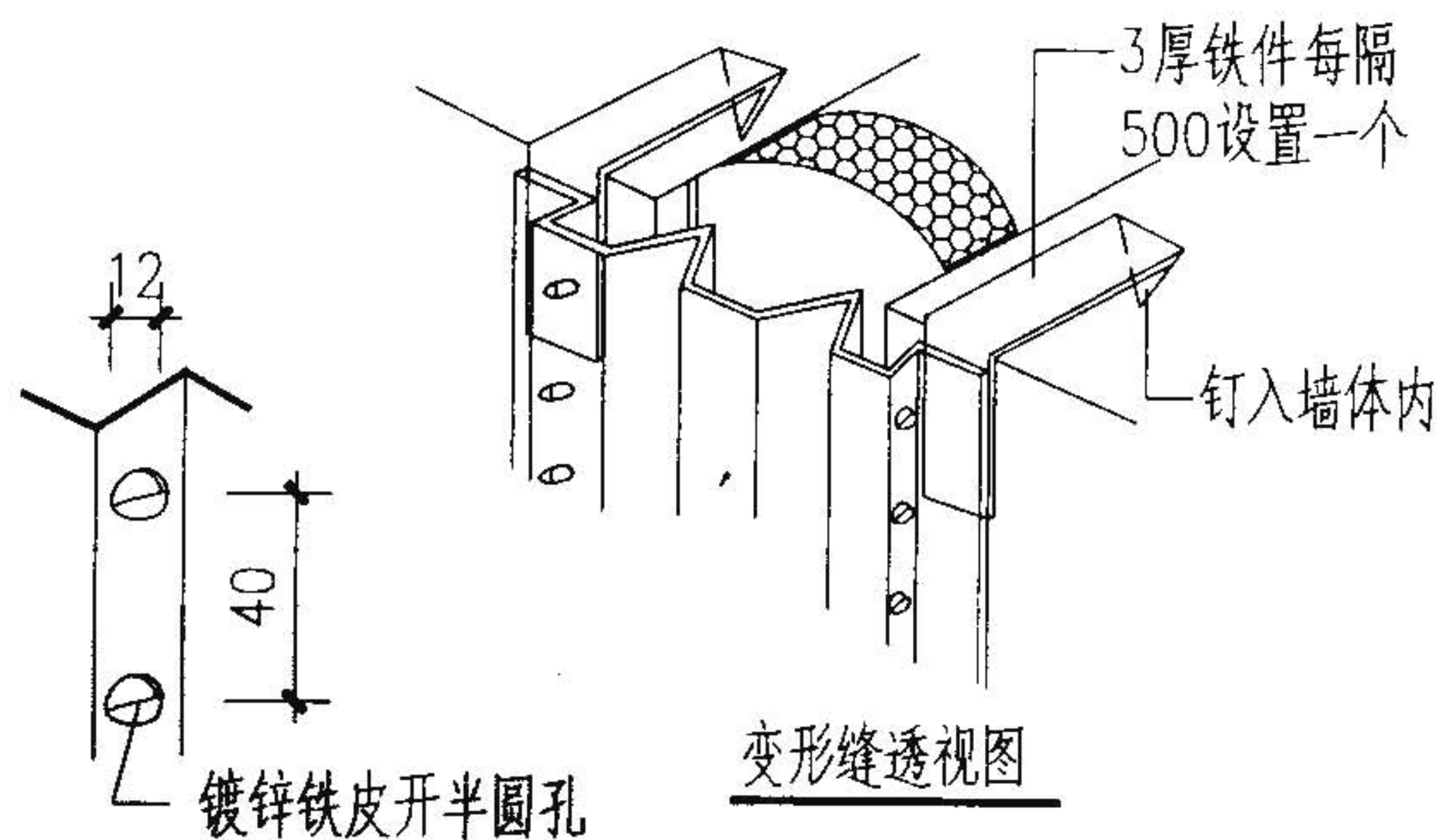
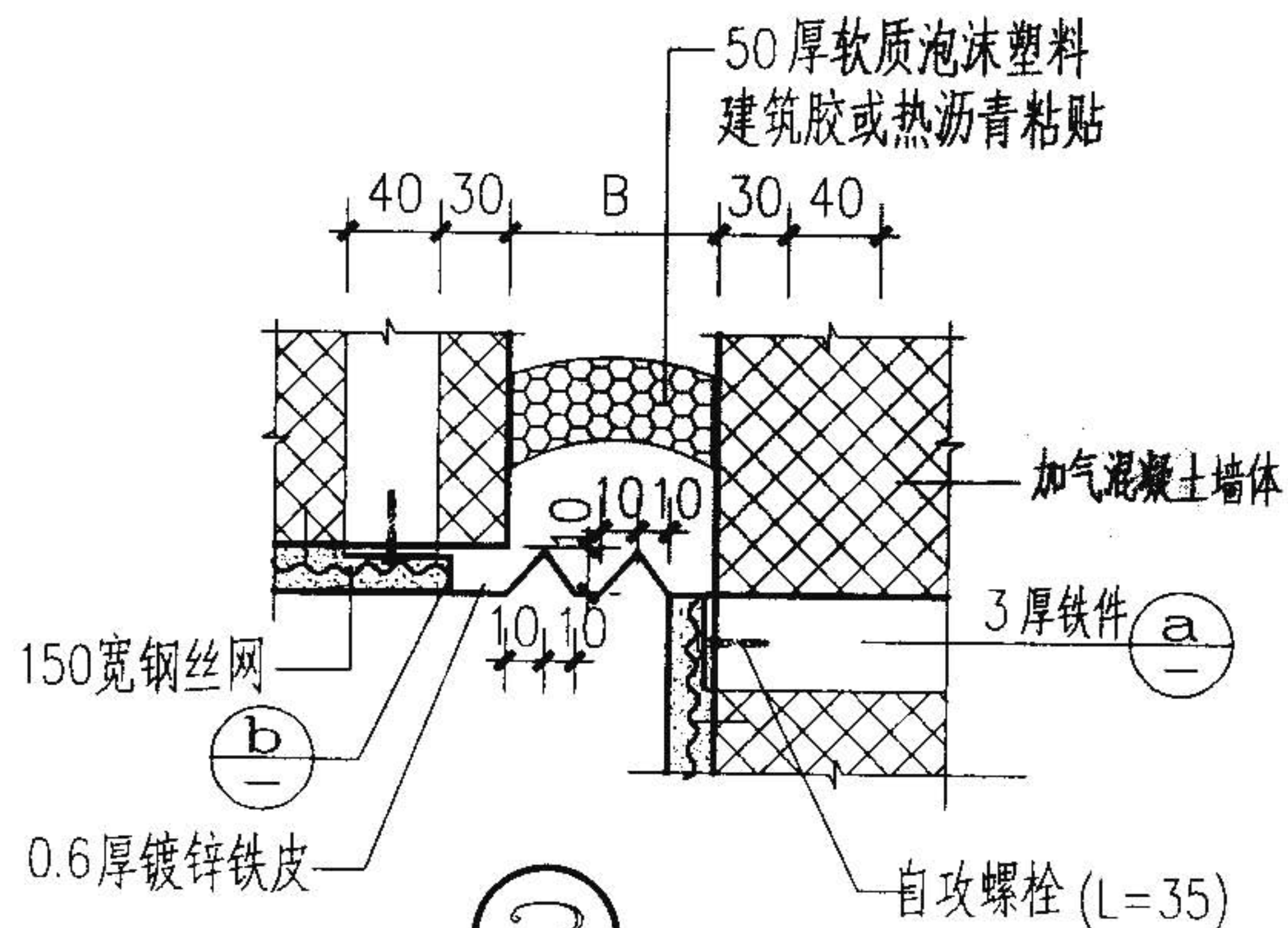
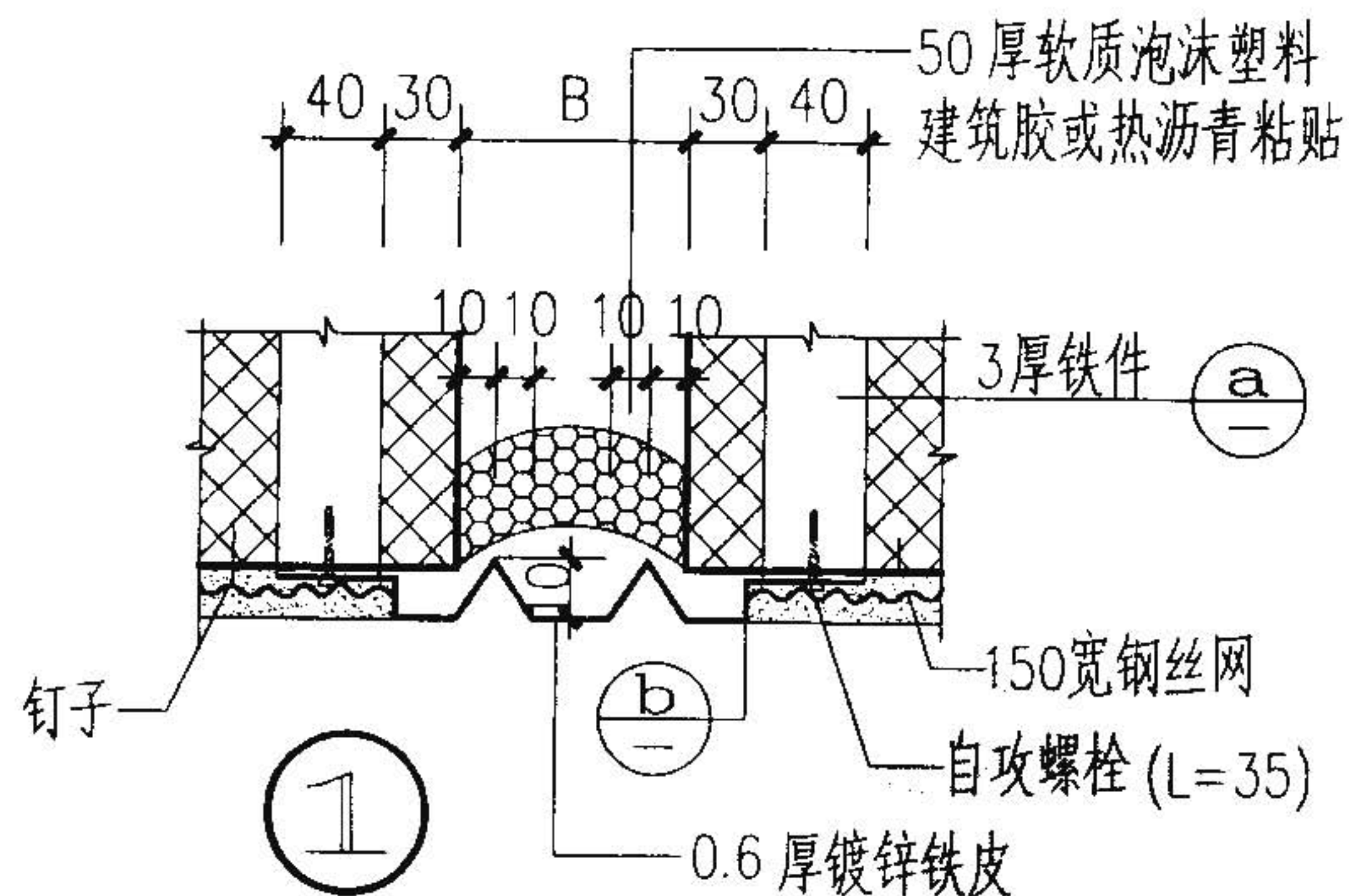
图集号	皖 03J903
页 号	5





注：1. 缝宽B详见单体工程图 2. a为铝合金, b为不锈钢

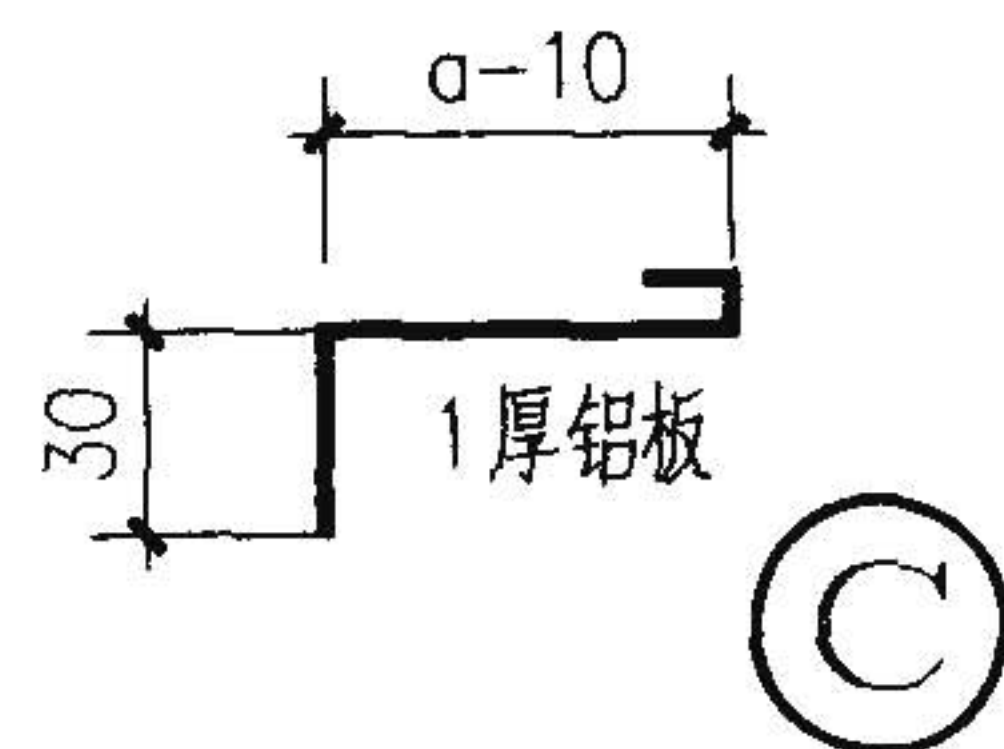
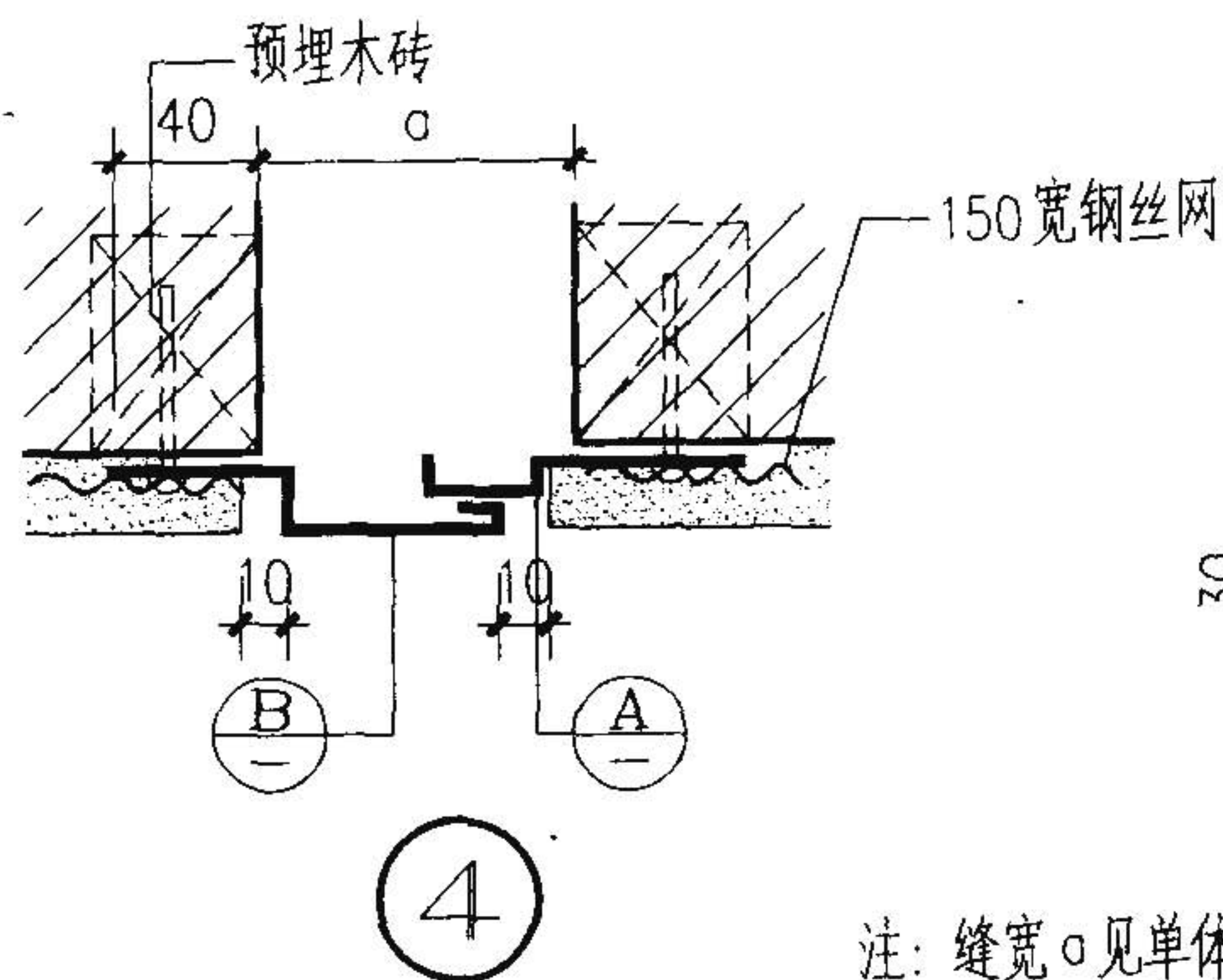
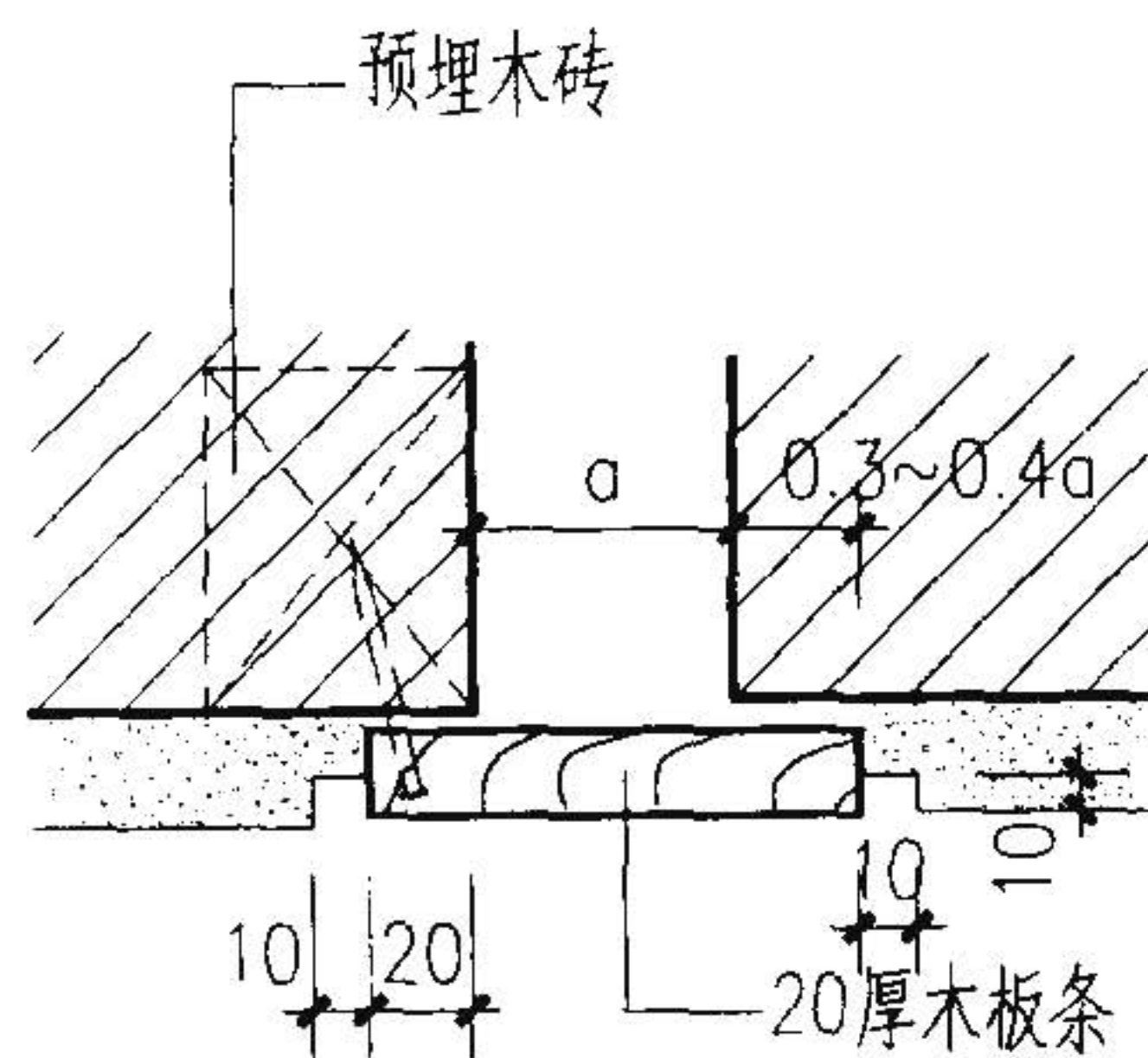
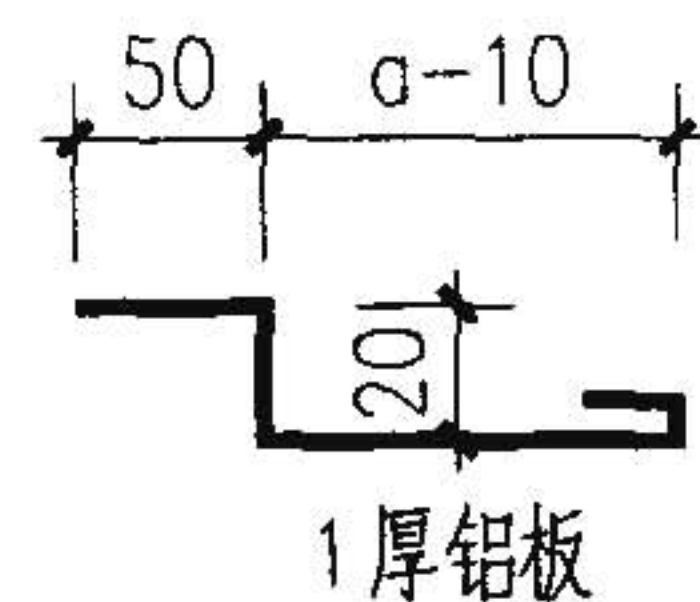
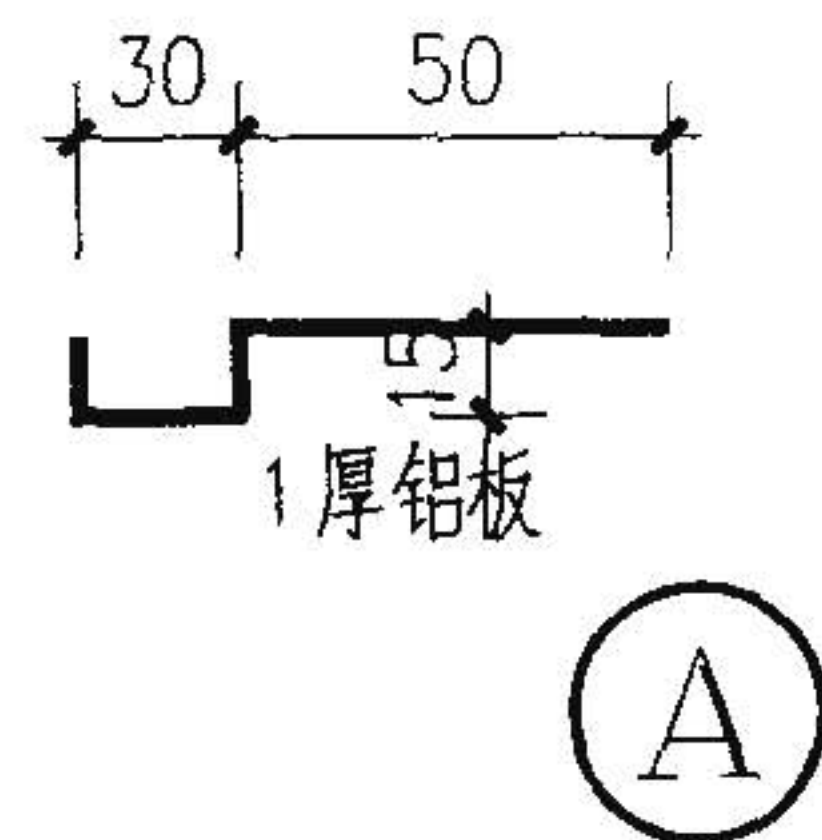
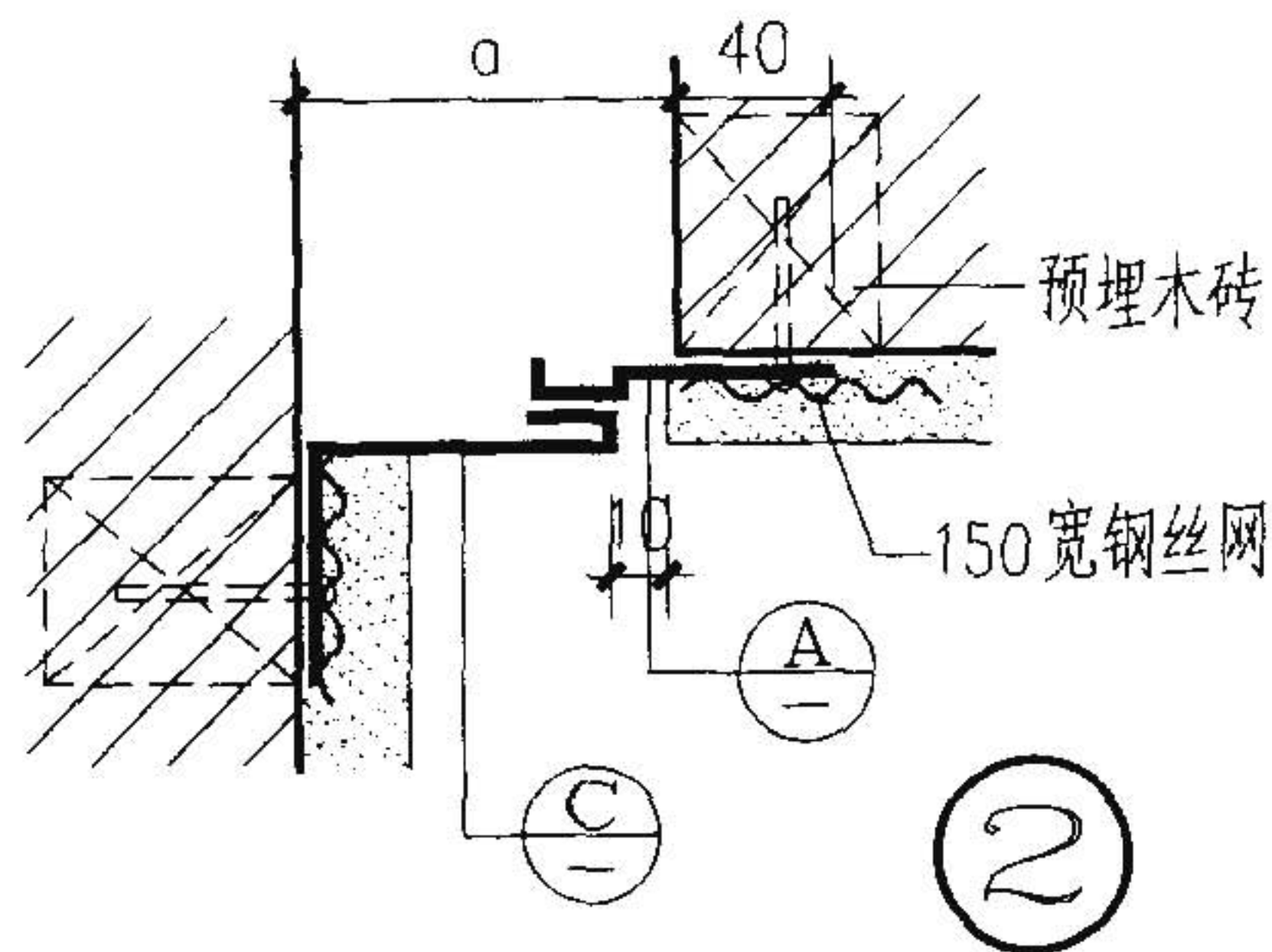
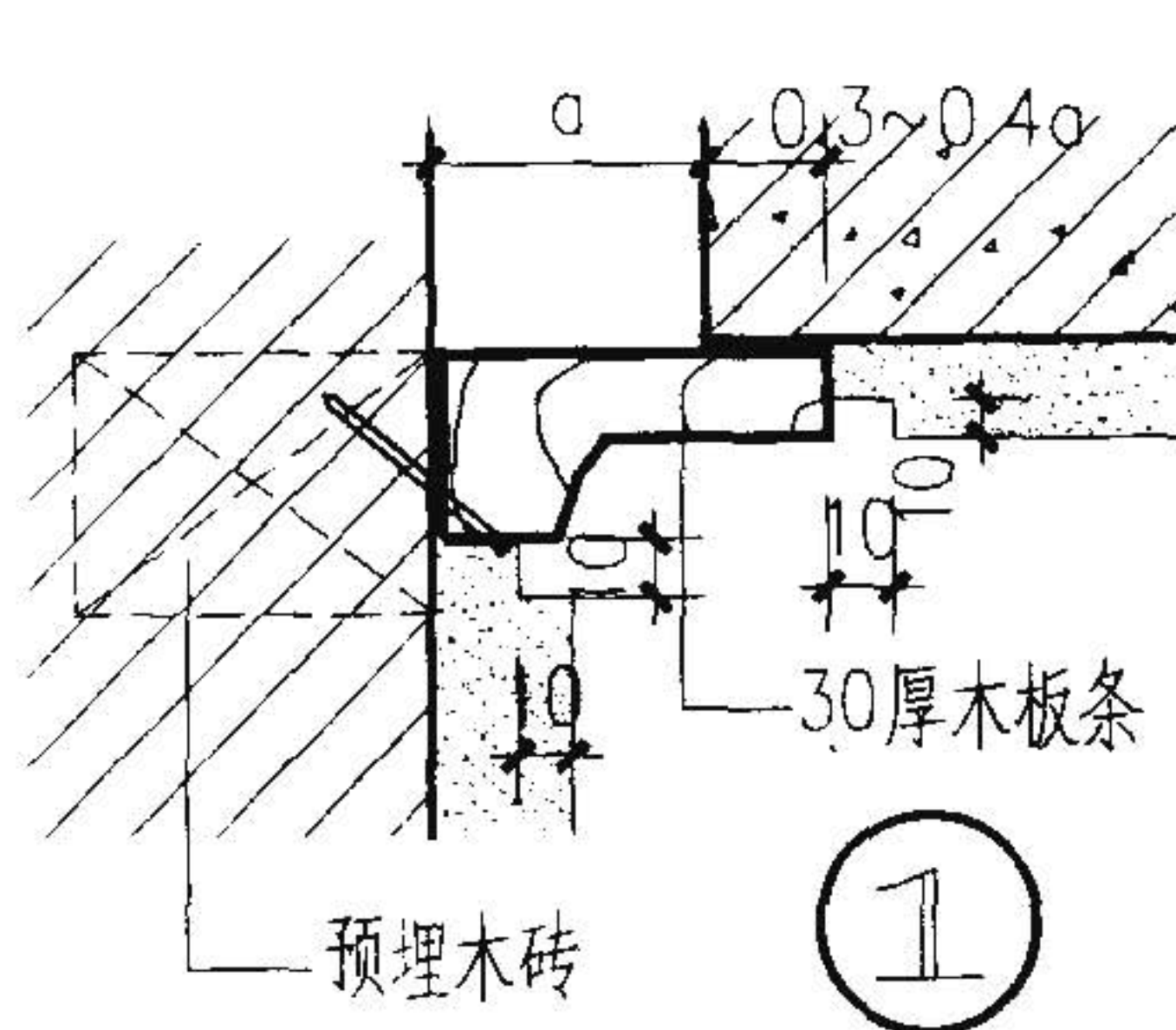




注: 1. 缝宽B 详见单体工程图

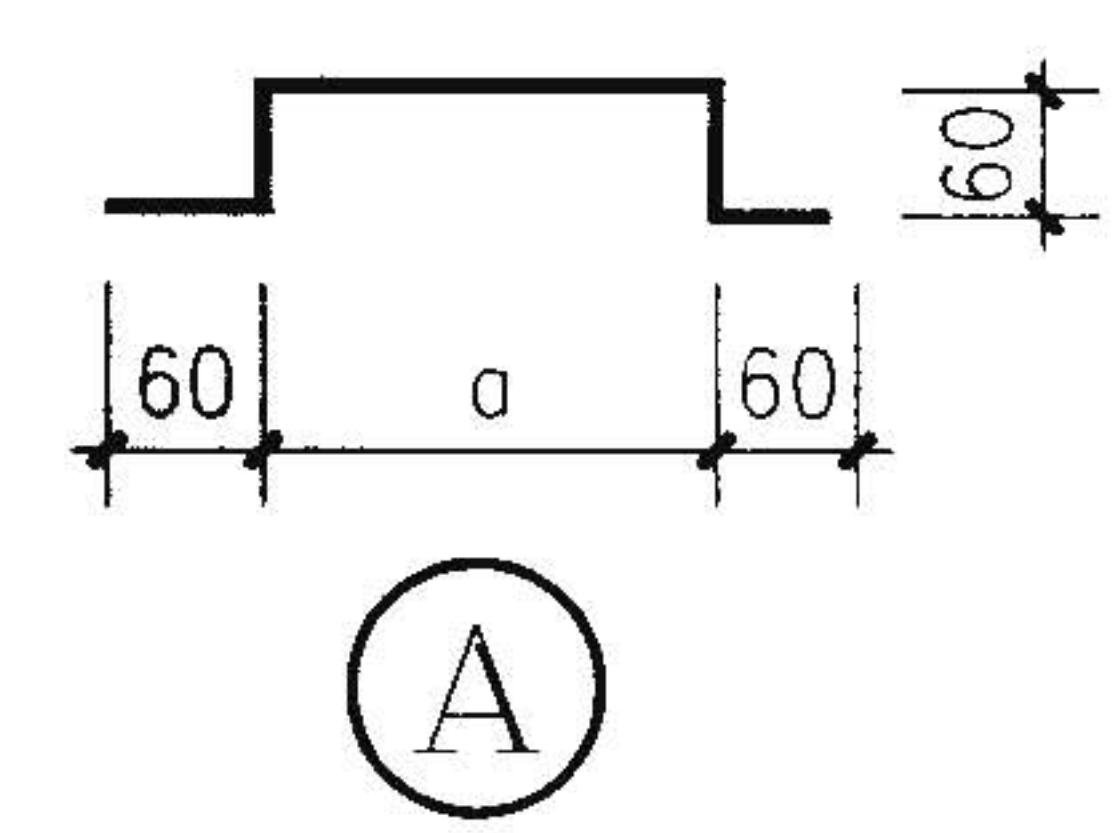
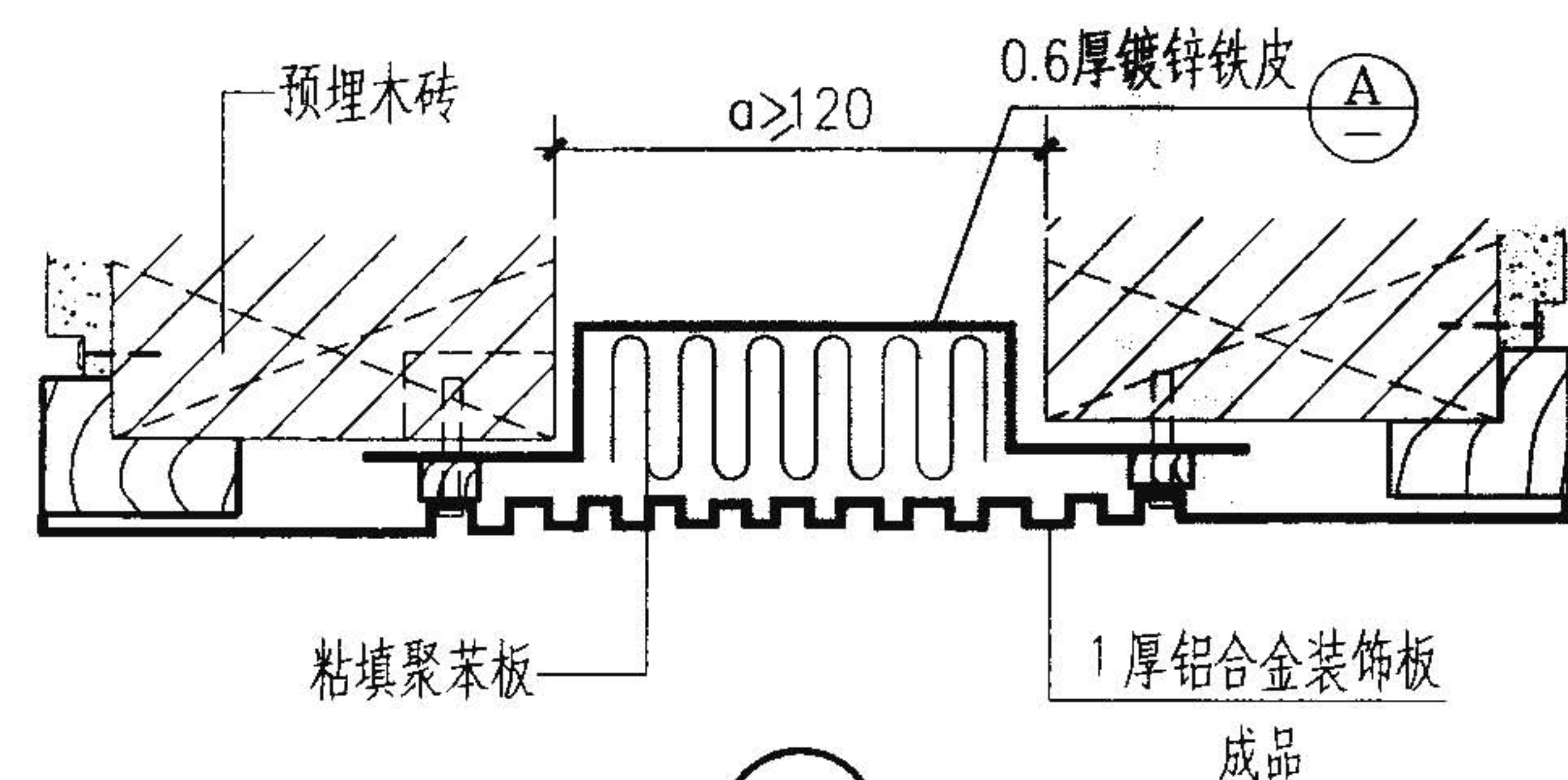
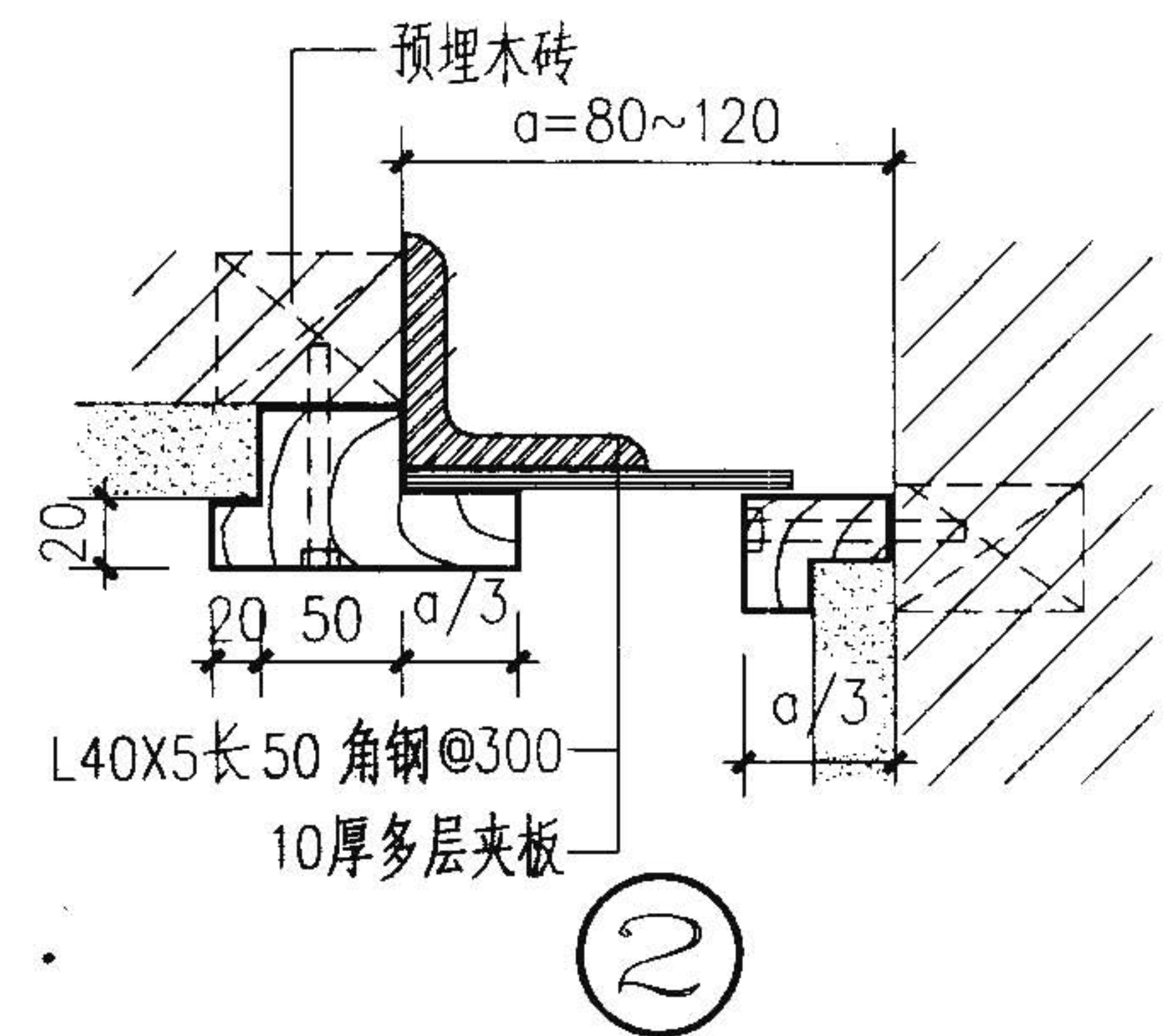
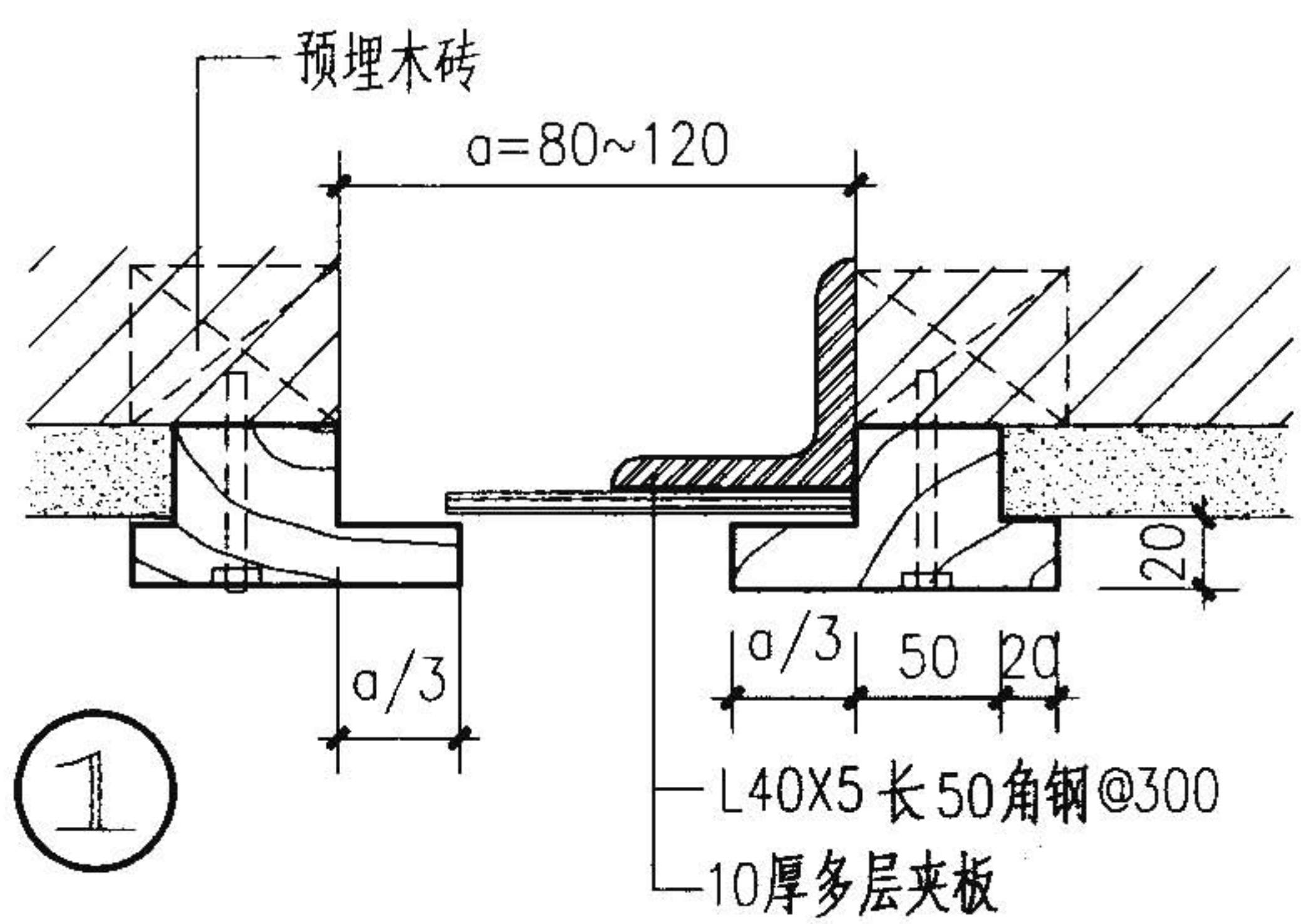
2. 当外墙不做抹灰时金属片外不加钉钢丝网





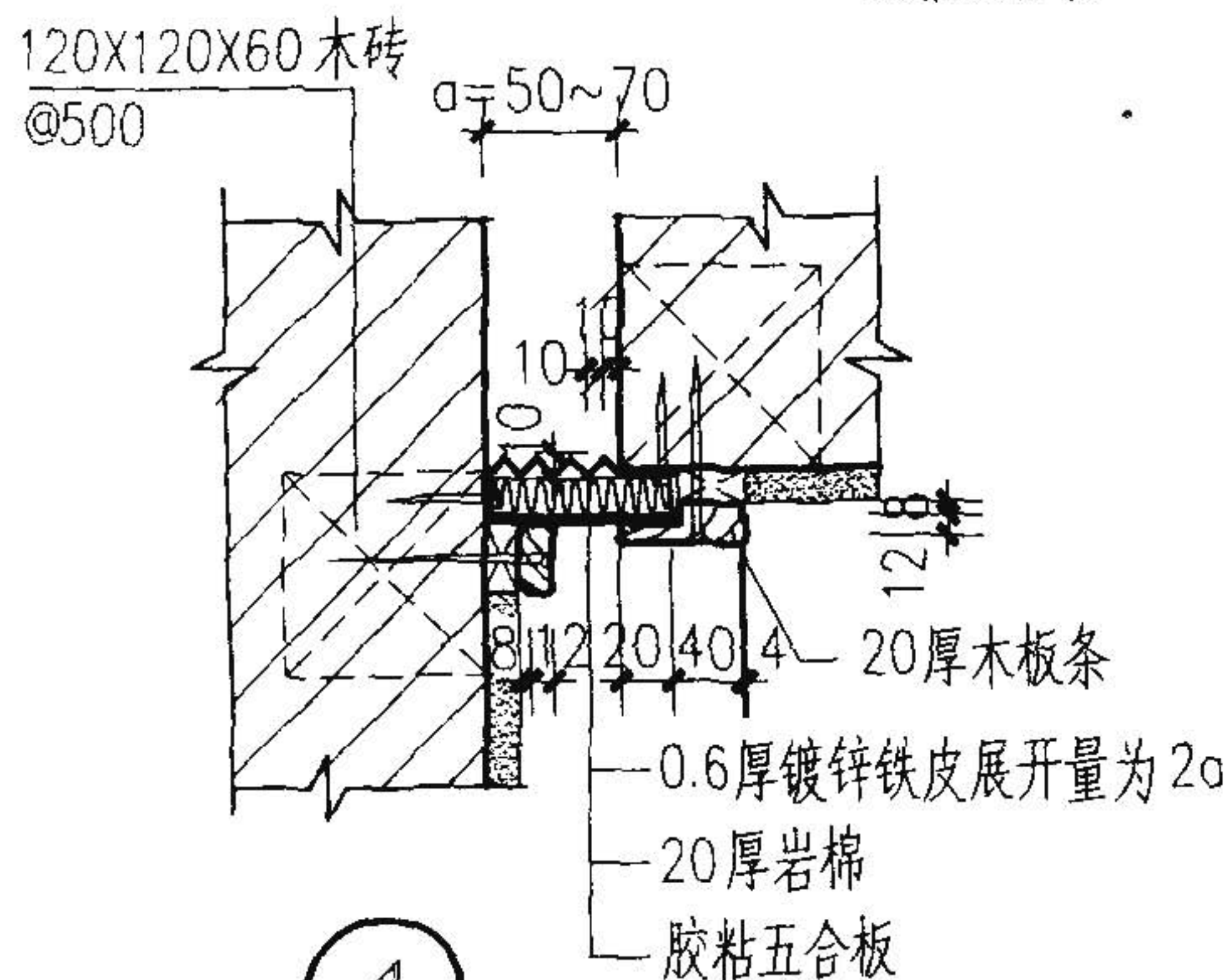
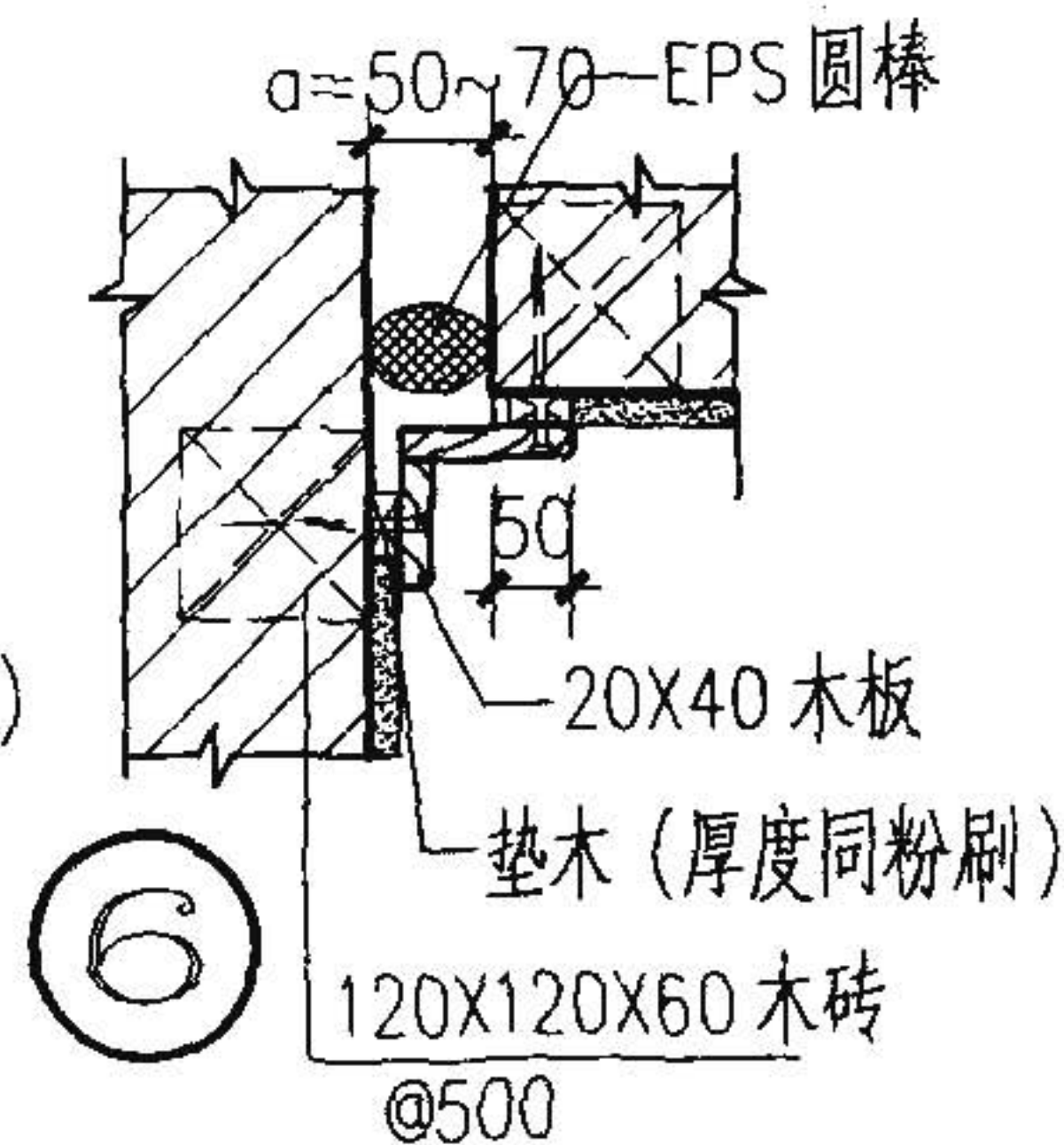
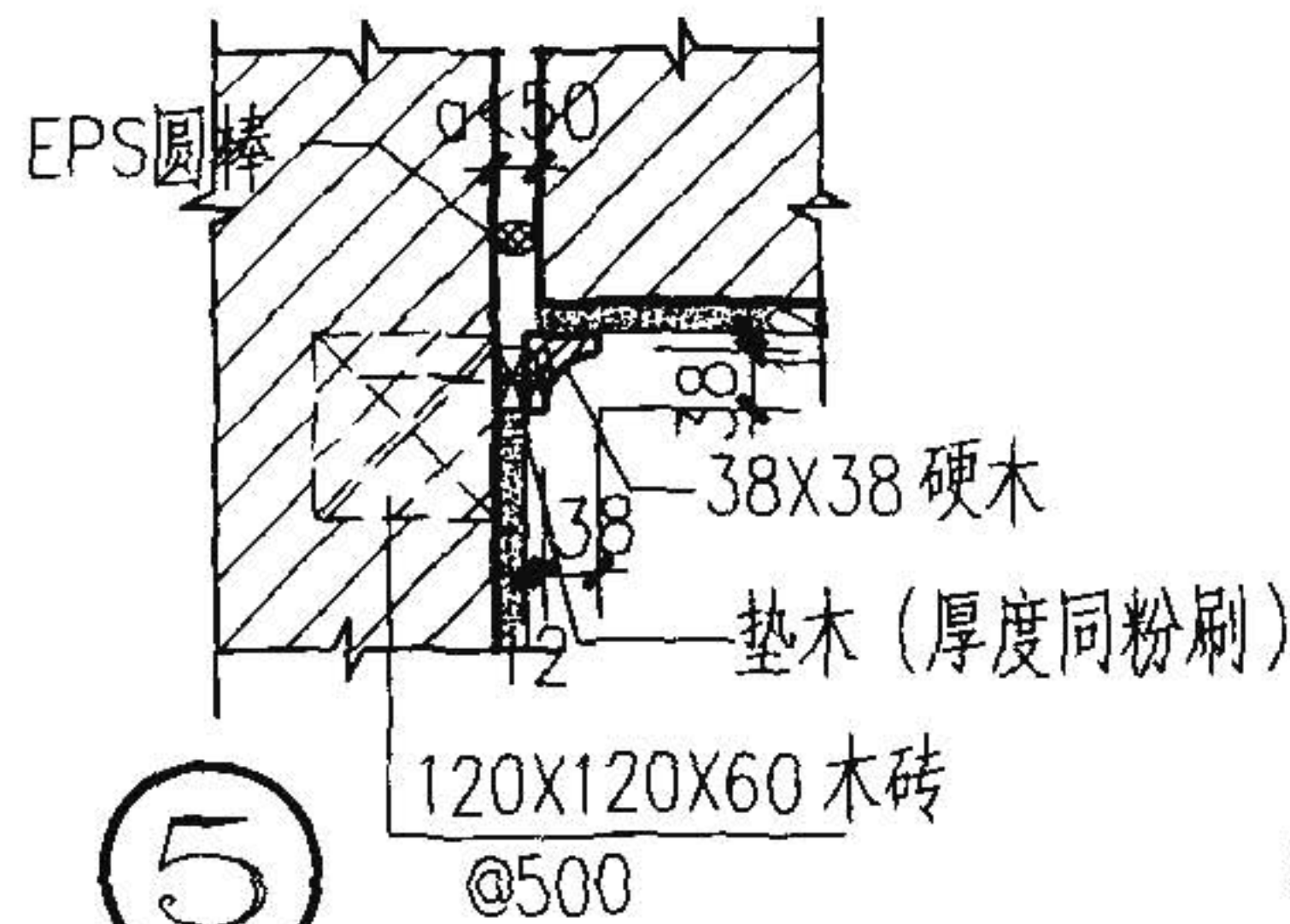
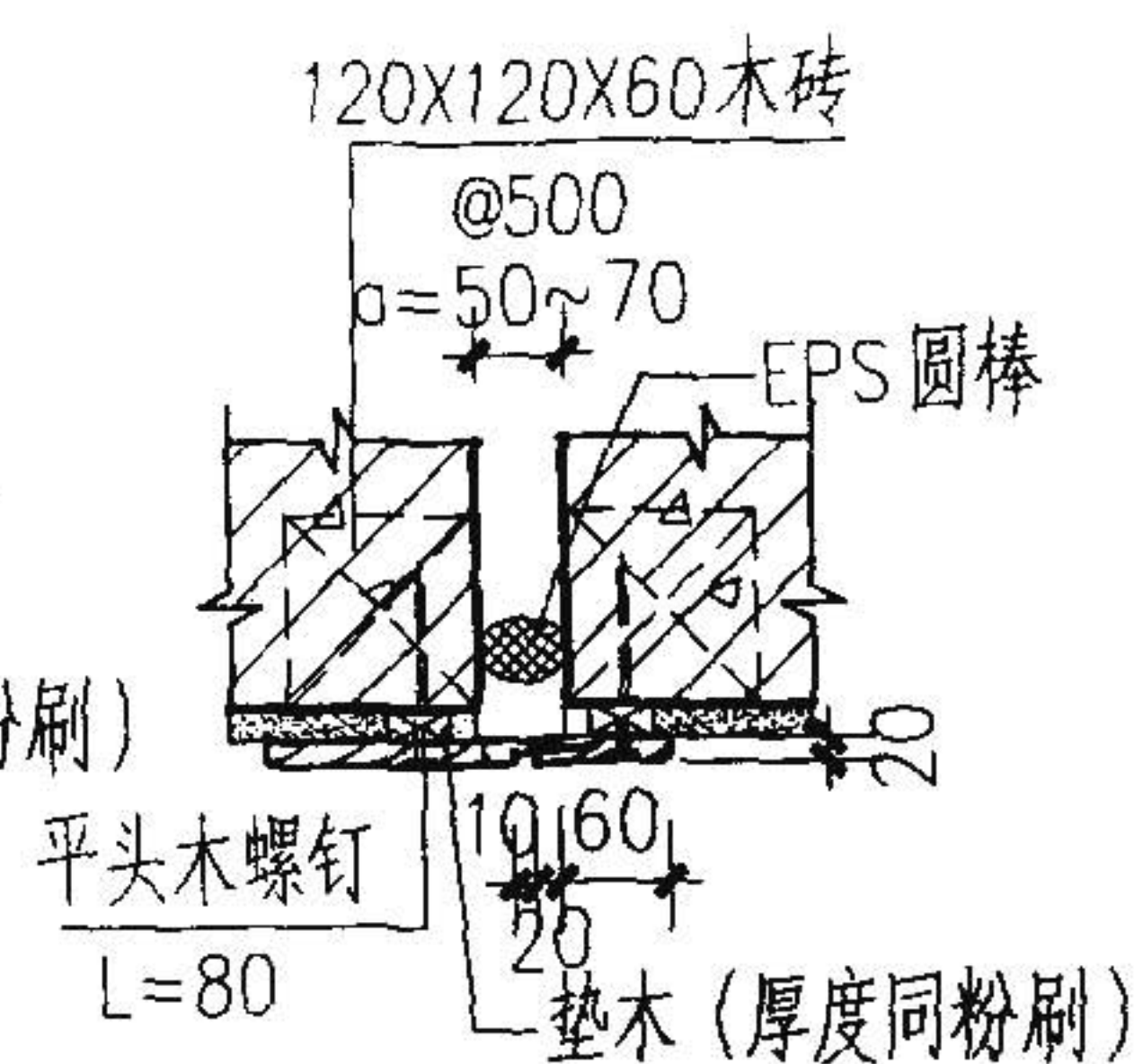
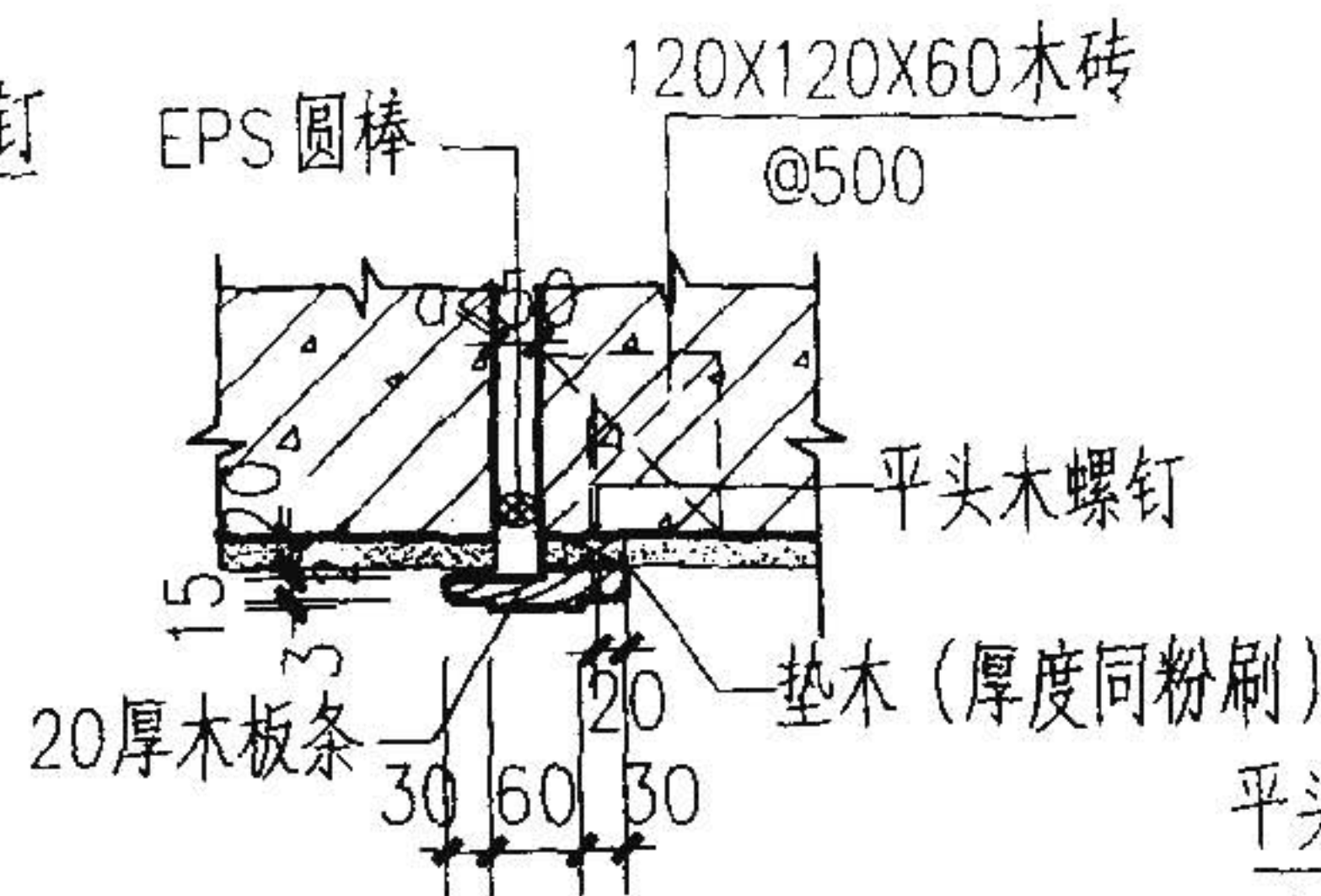
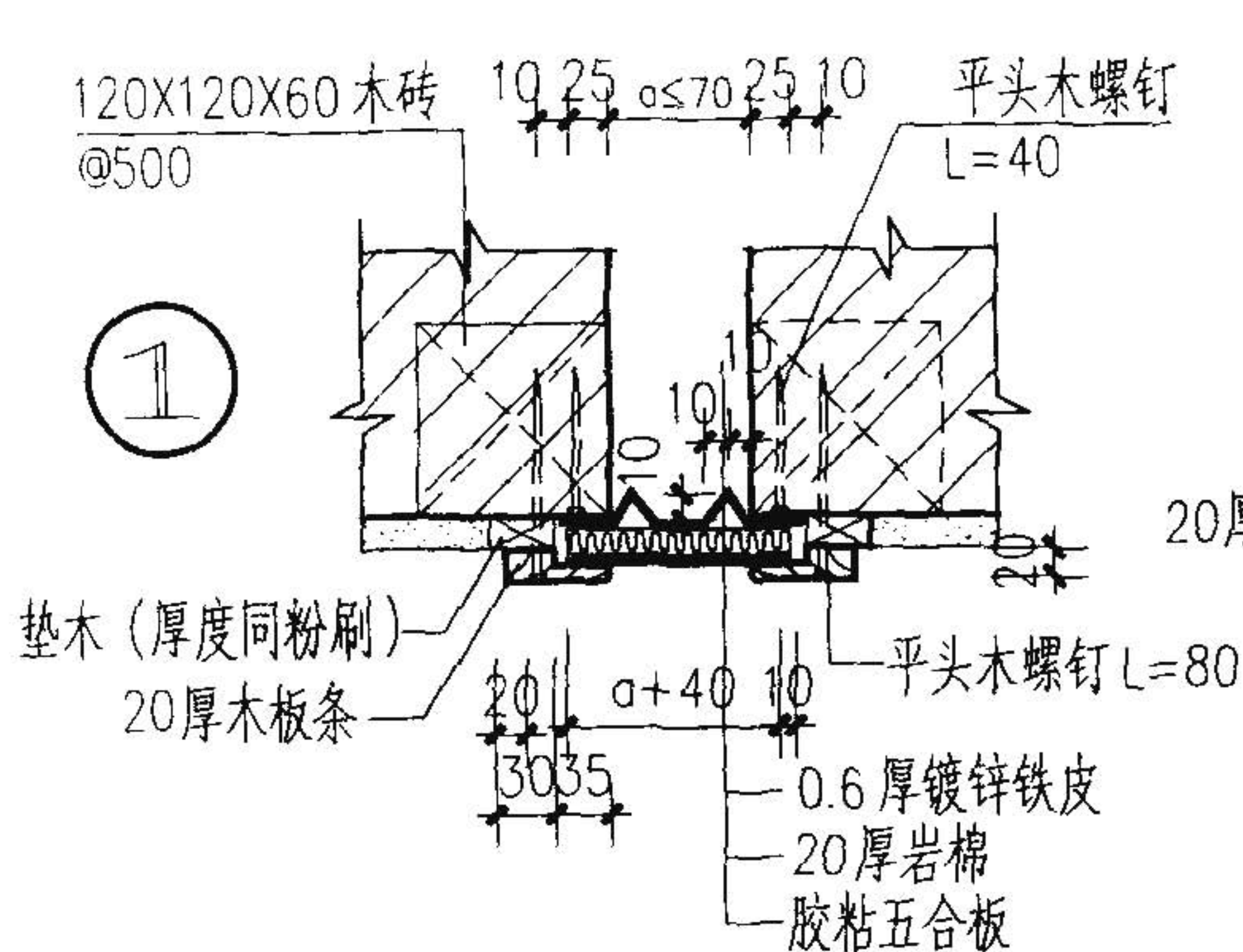
注：缝宽  $a$  见单体工程图





注：缝宽  $a$  见单体工程图



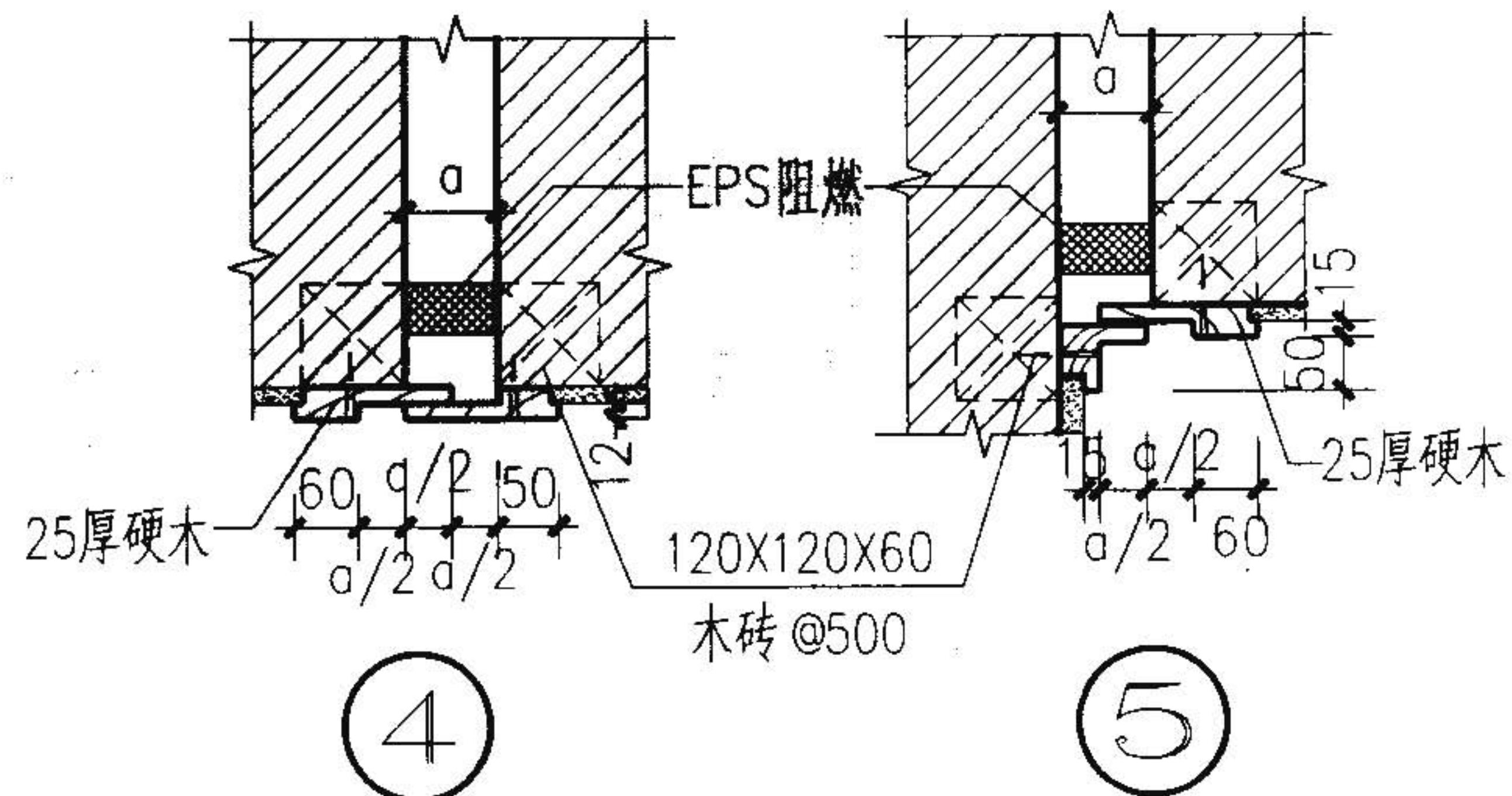
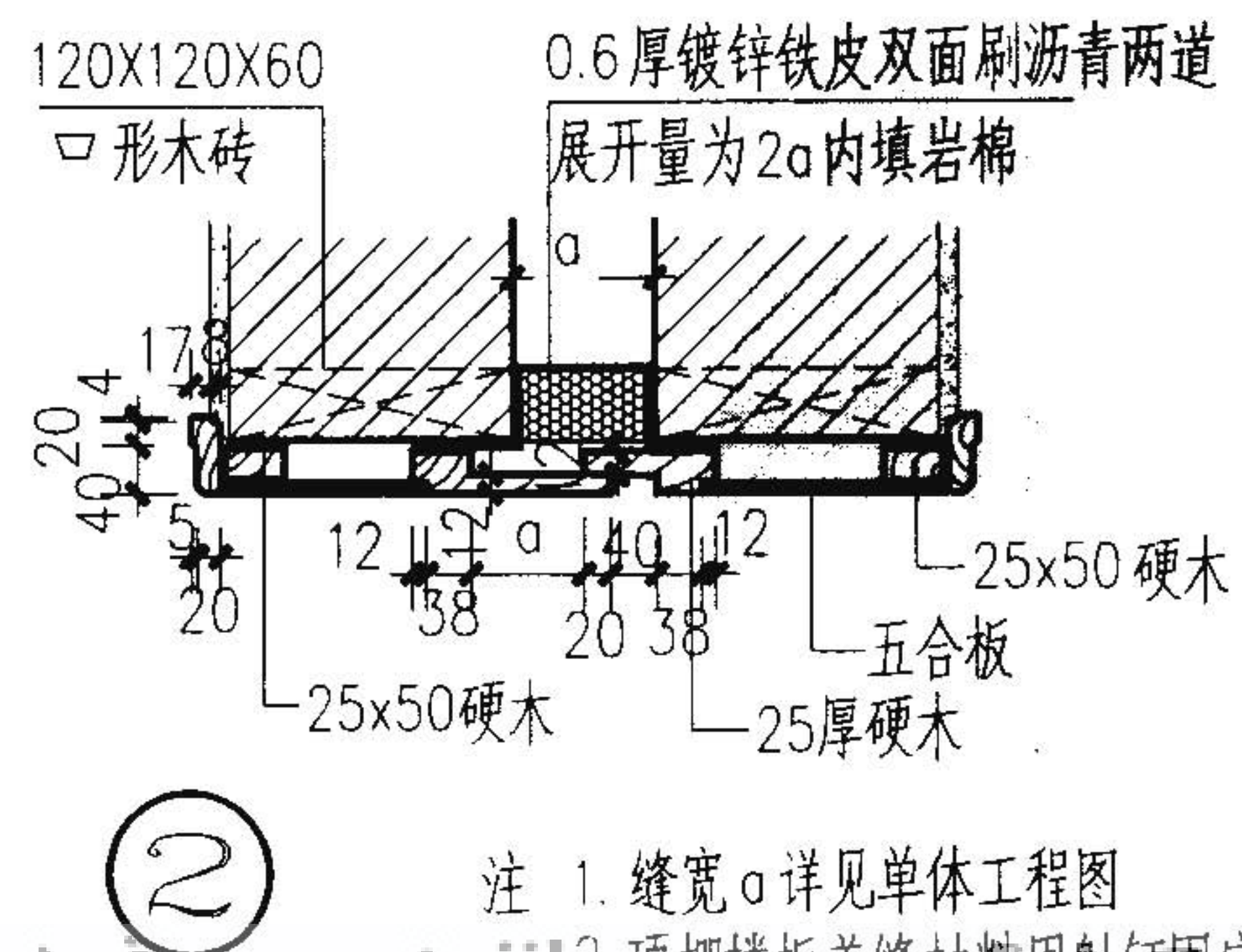
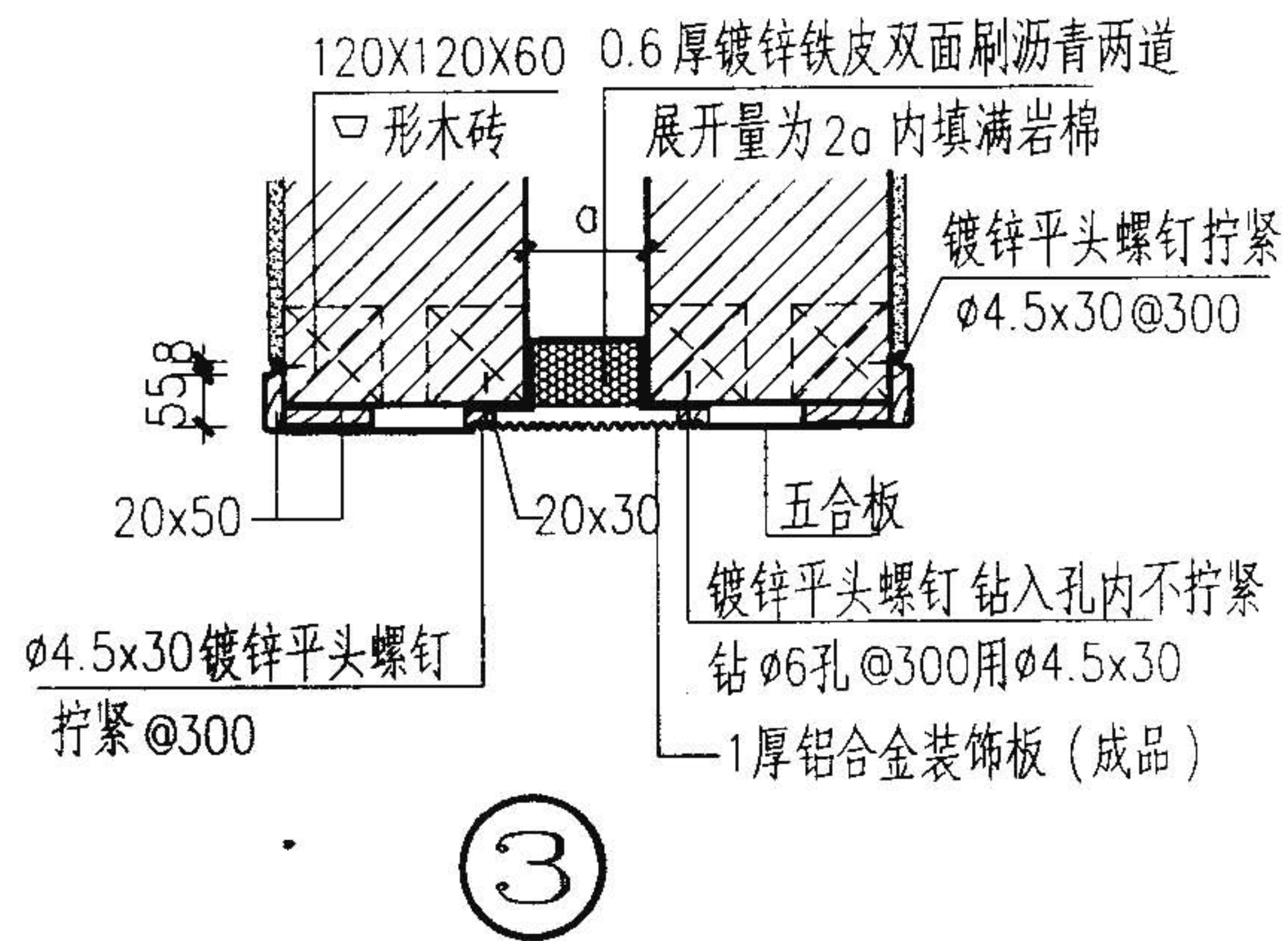
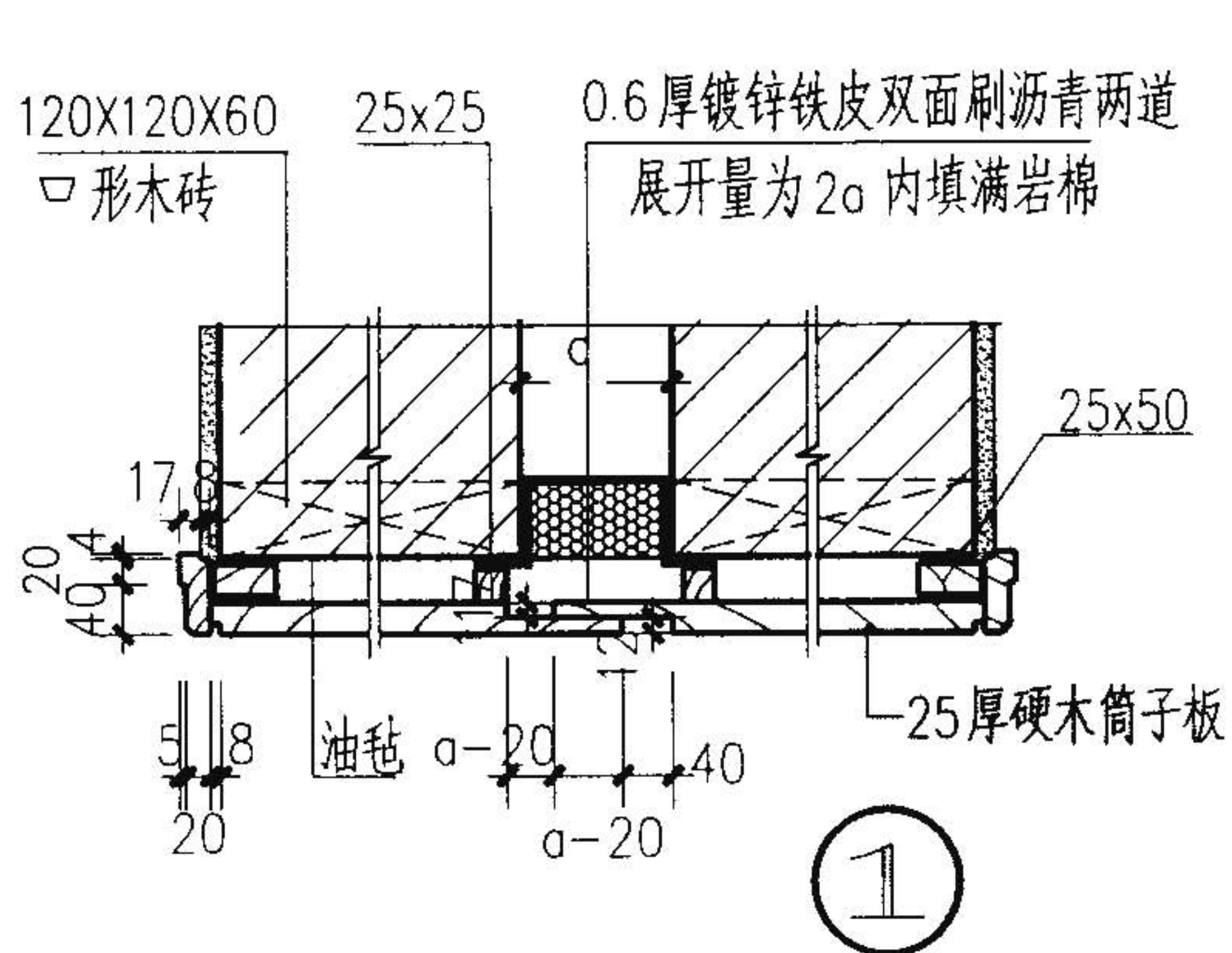


注 1. 缝宽  $a$  见单体工程

2. 顶棚楼板盖缝材料用射钉固定

3. 当顶棚混凝土内未予留木砖时, 改用  $\phi 6$  膨胀螺栓固定

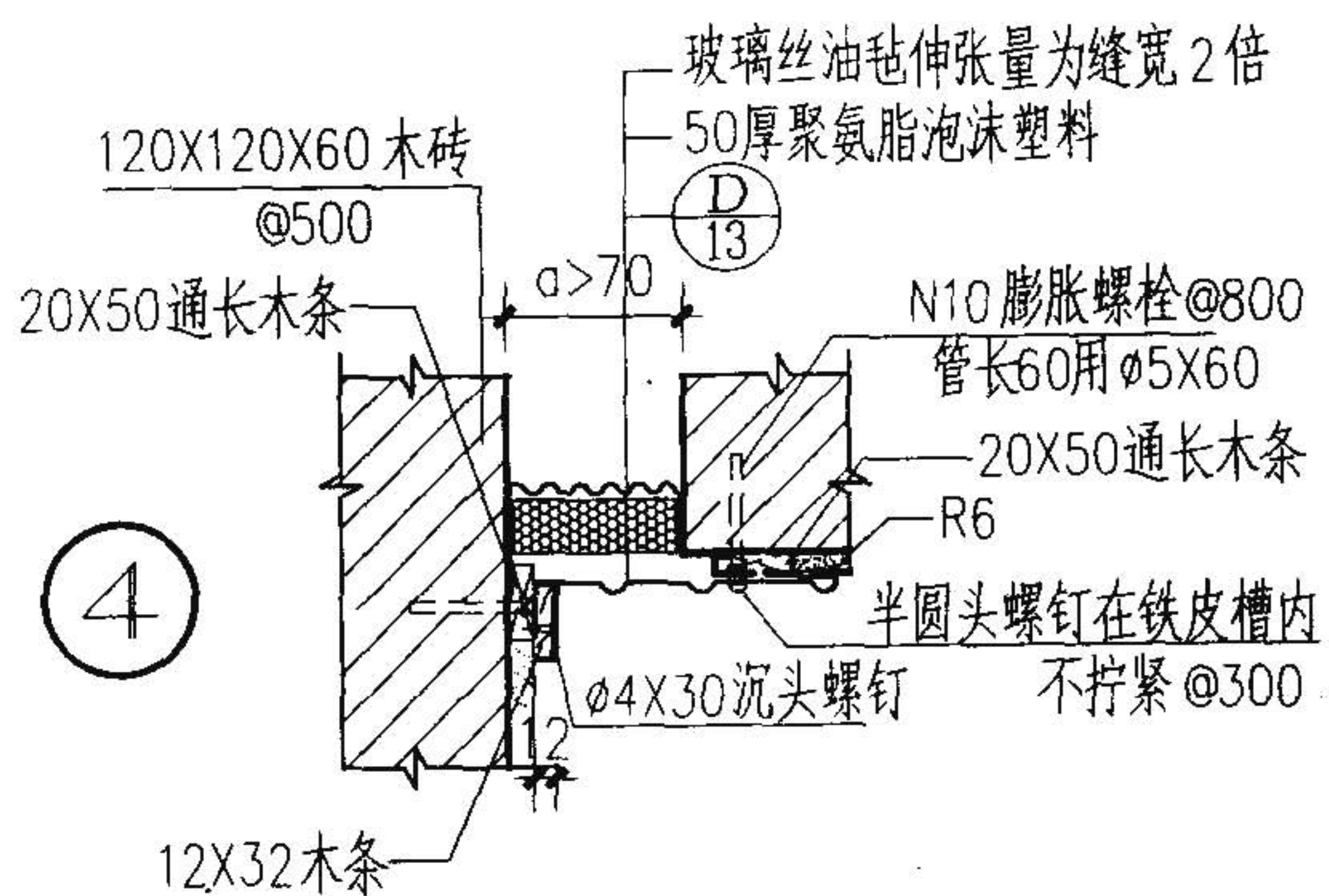
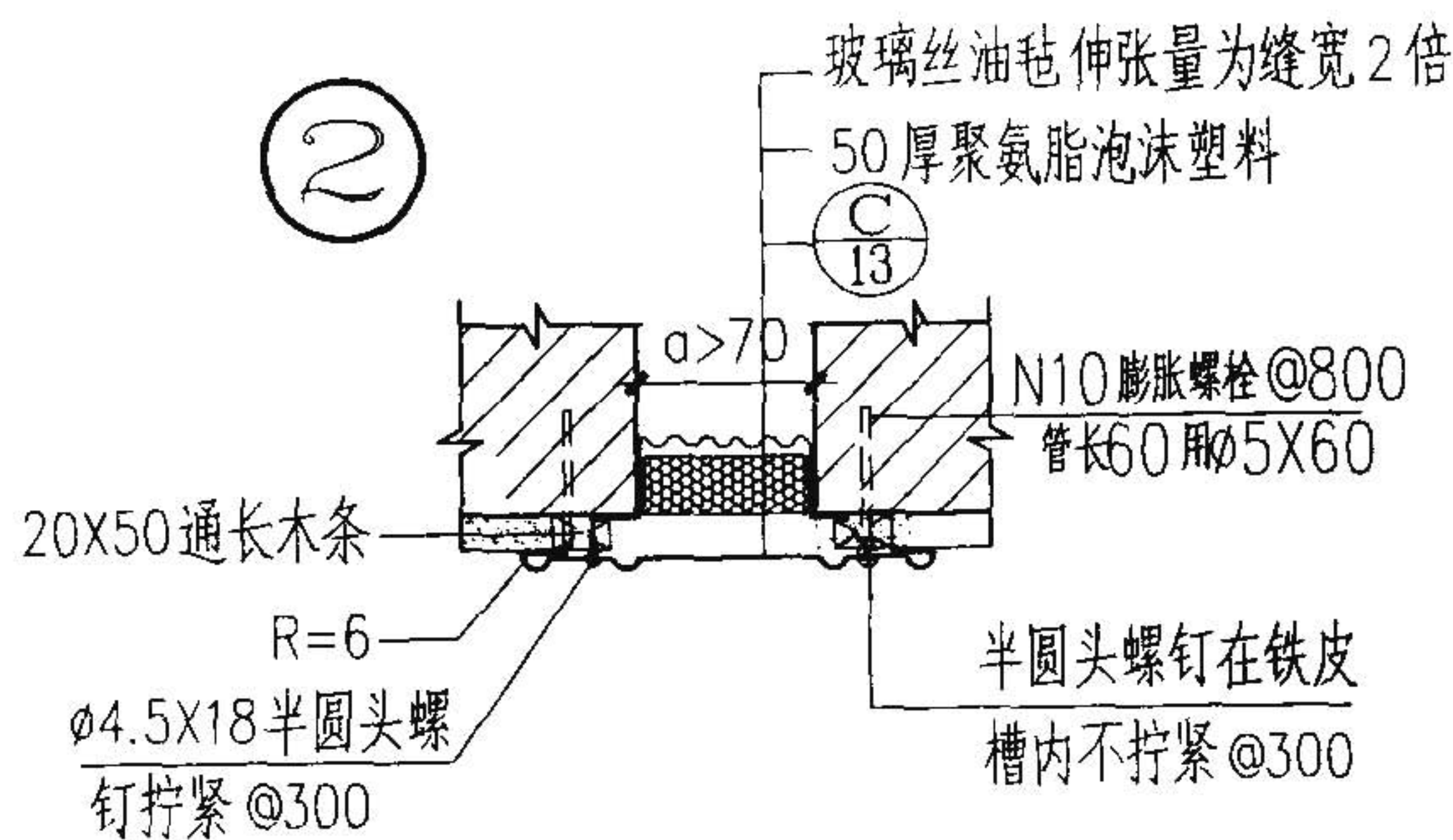
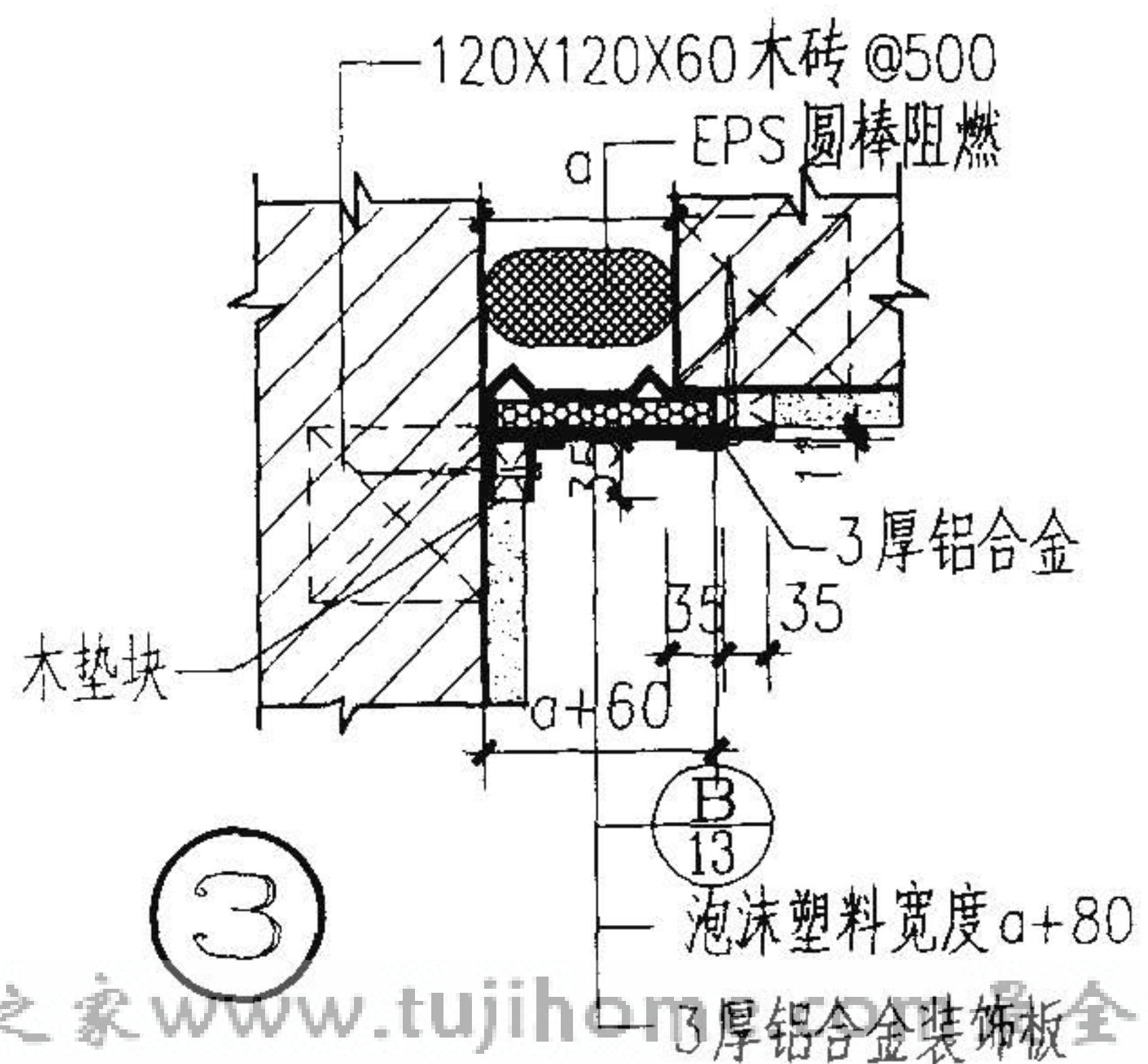
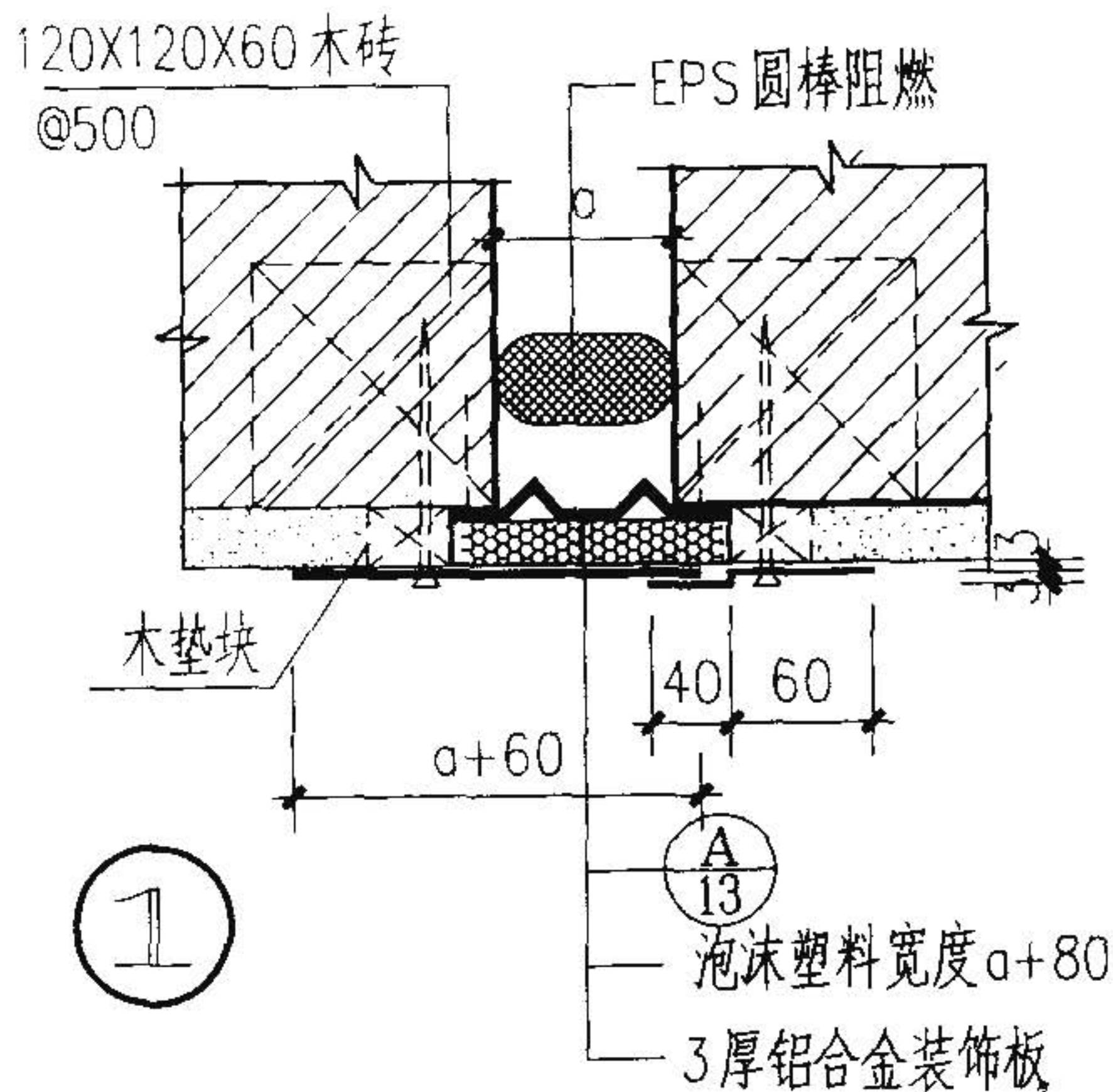




校对	设计	制图	内墙及顶棚变形缝(四)	图集号	院 03J903
				页号	1

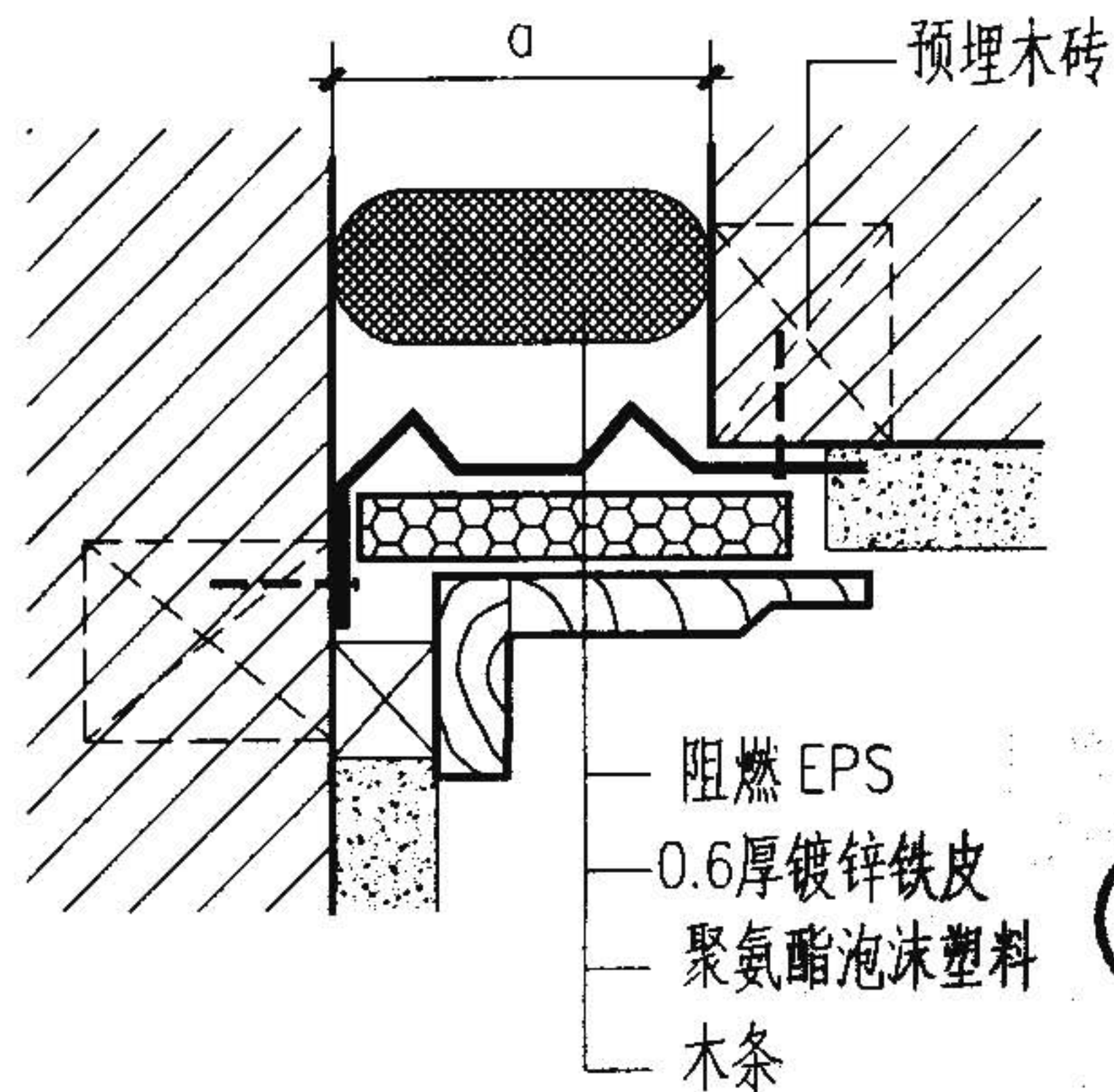
注 1. 缝宽 $a$ 详见单体工程图  
2. 顶棚楼板盖缝材料用射钉固定  
3. 岩棉与镀锌铁皮之间用建筑胶粘接



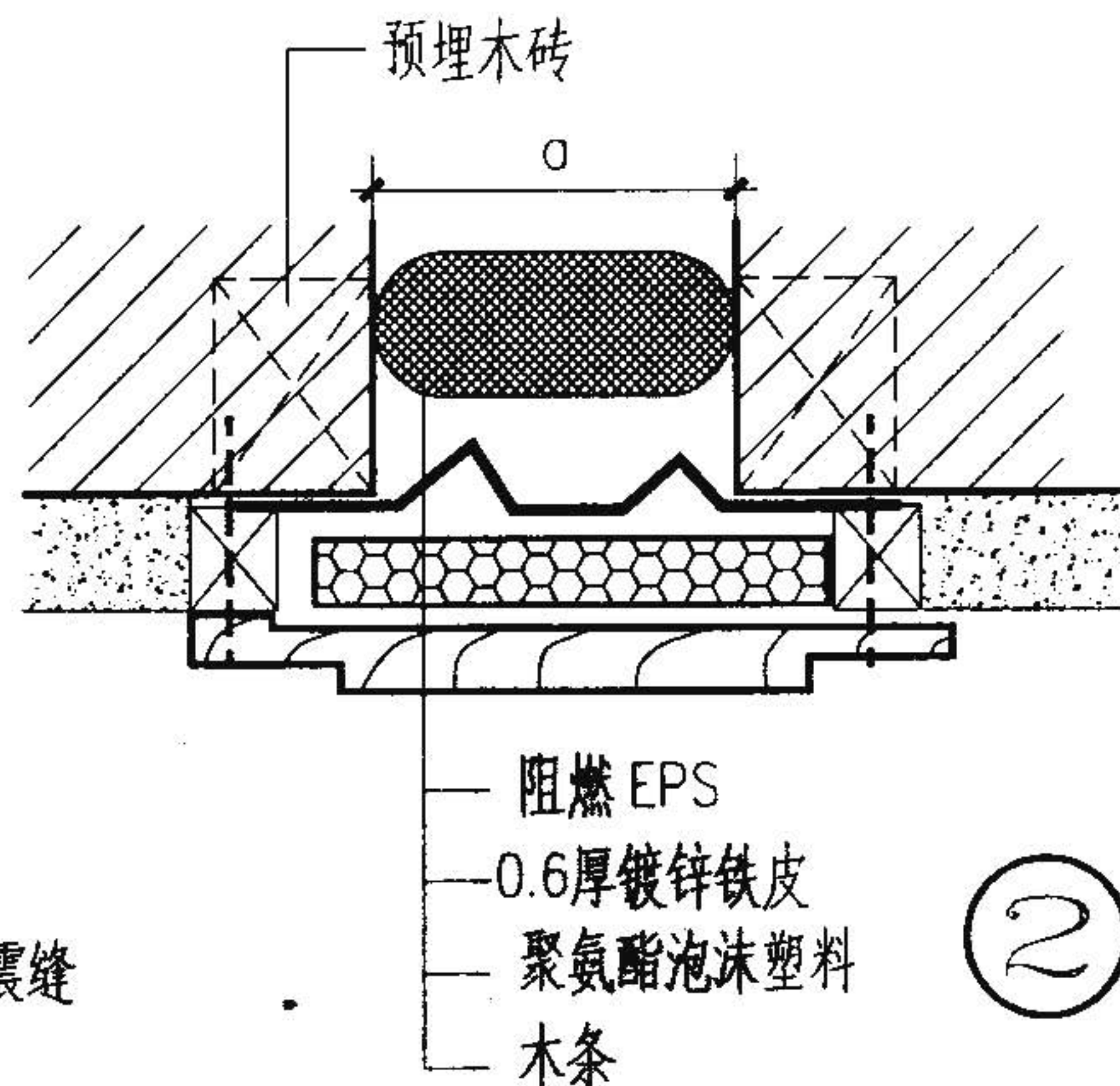


注：缝宽  $a$  见单体工程图

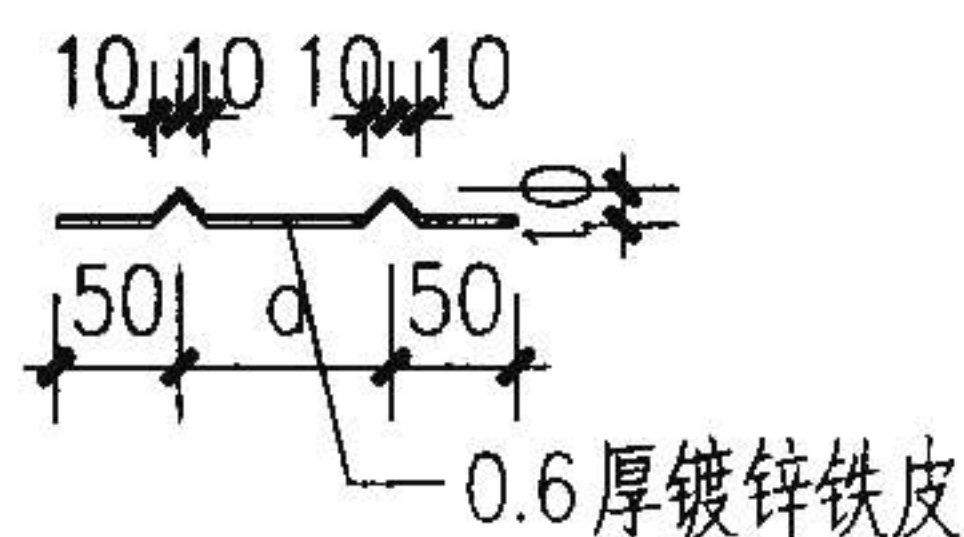




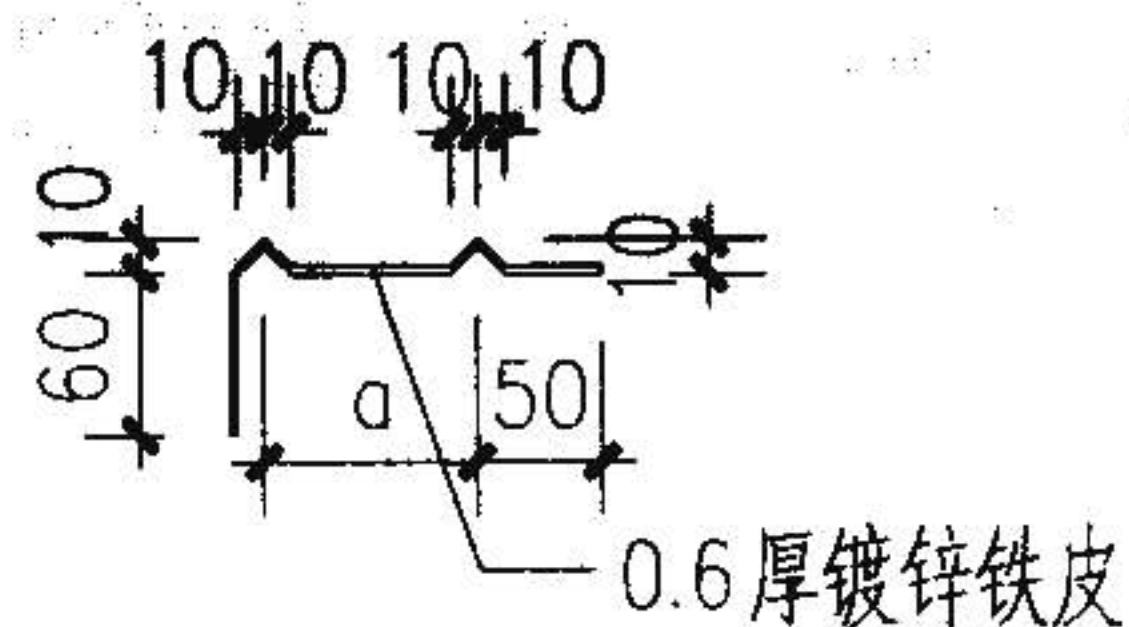
① 内墙防震缝



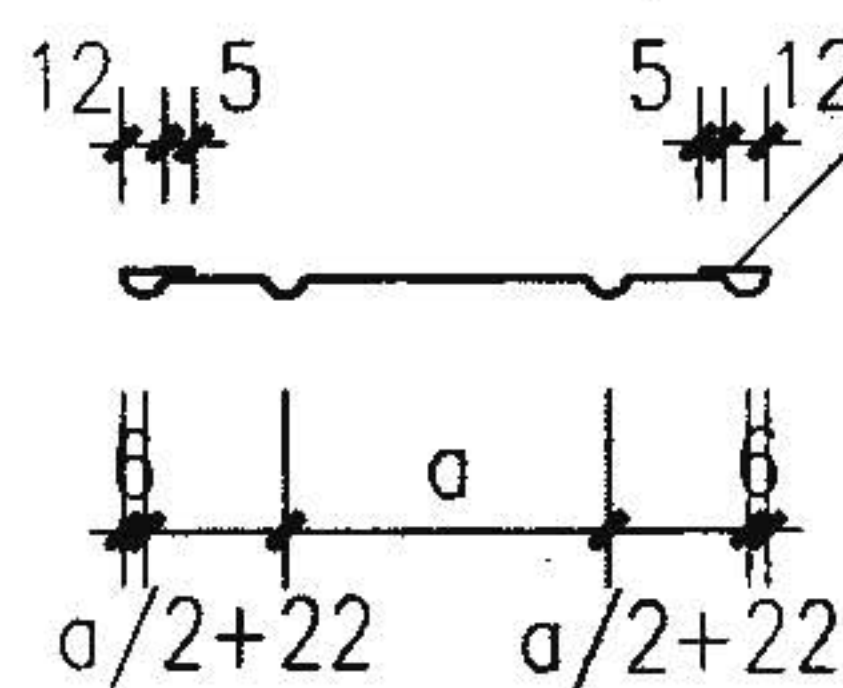
② 内墙防震缝



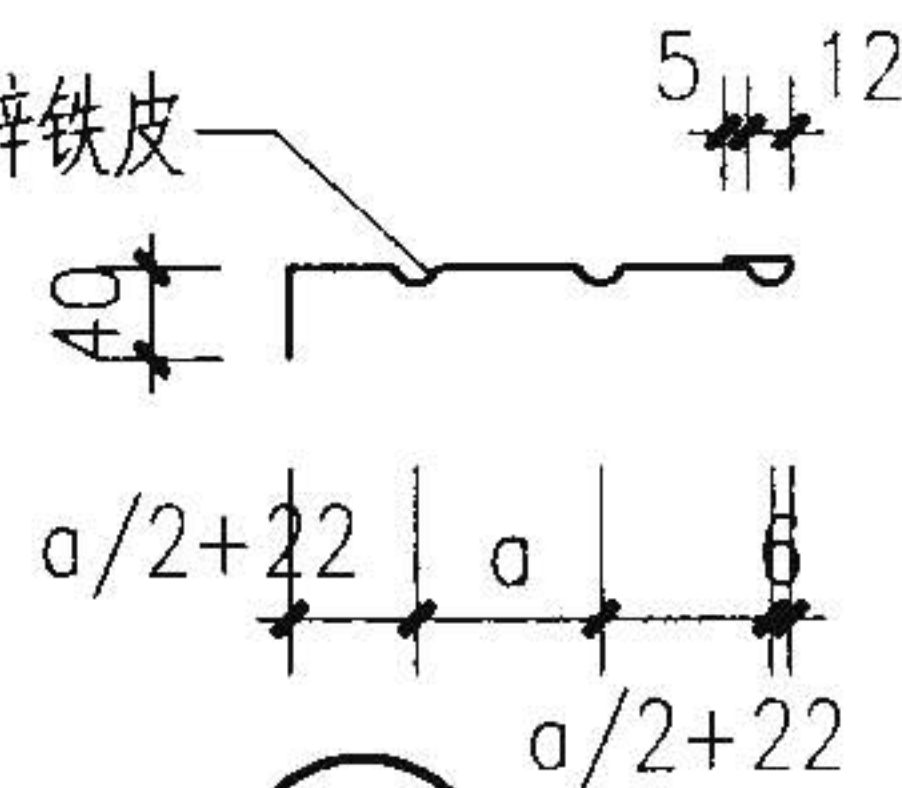
Ⓐ



Ⓑ



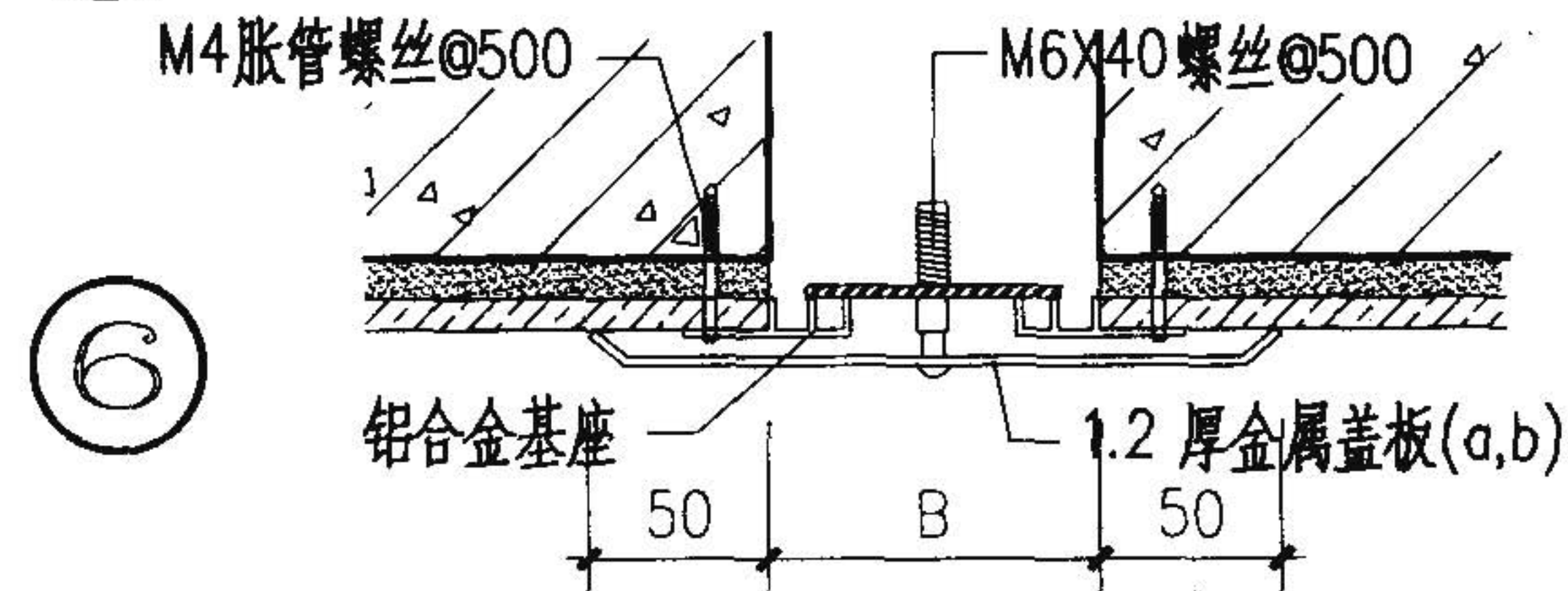
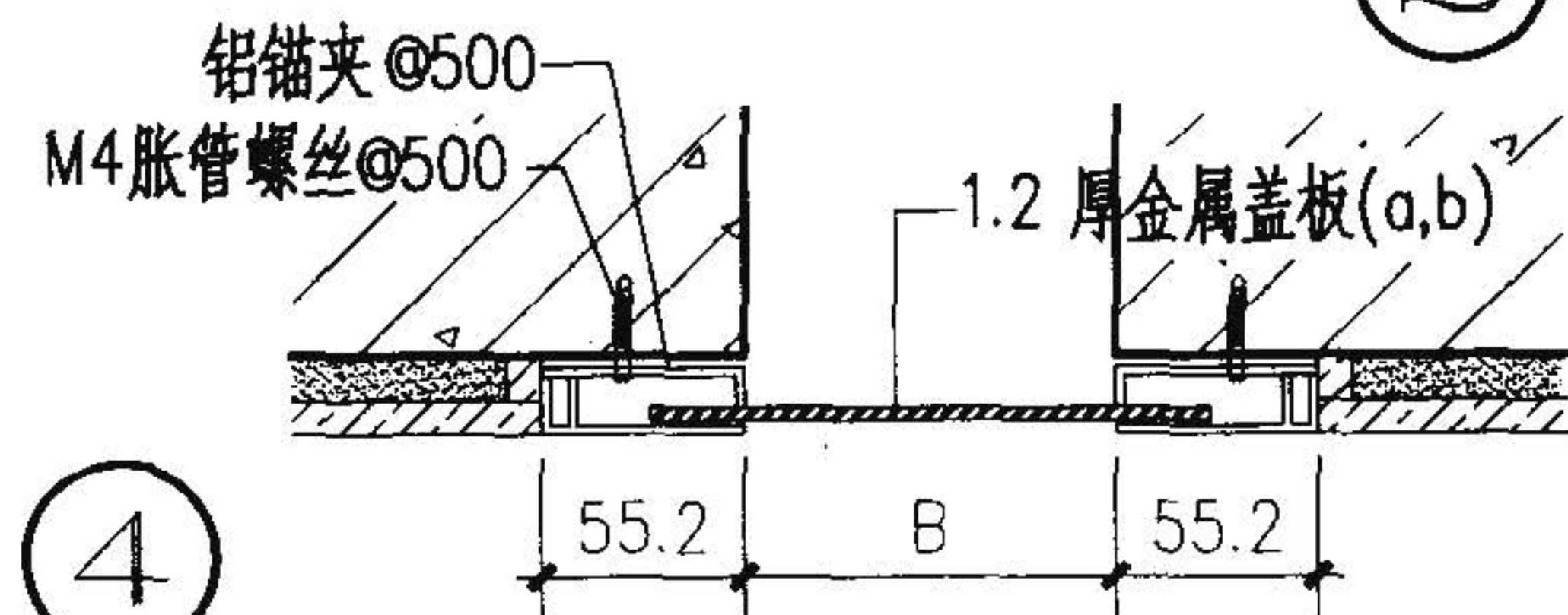
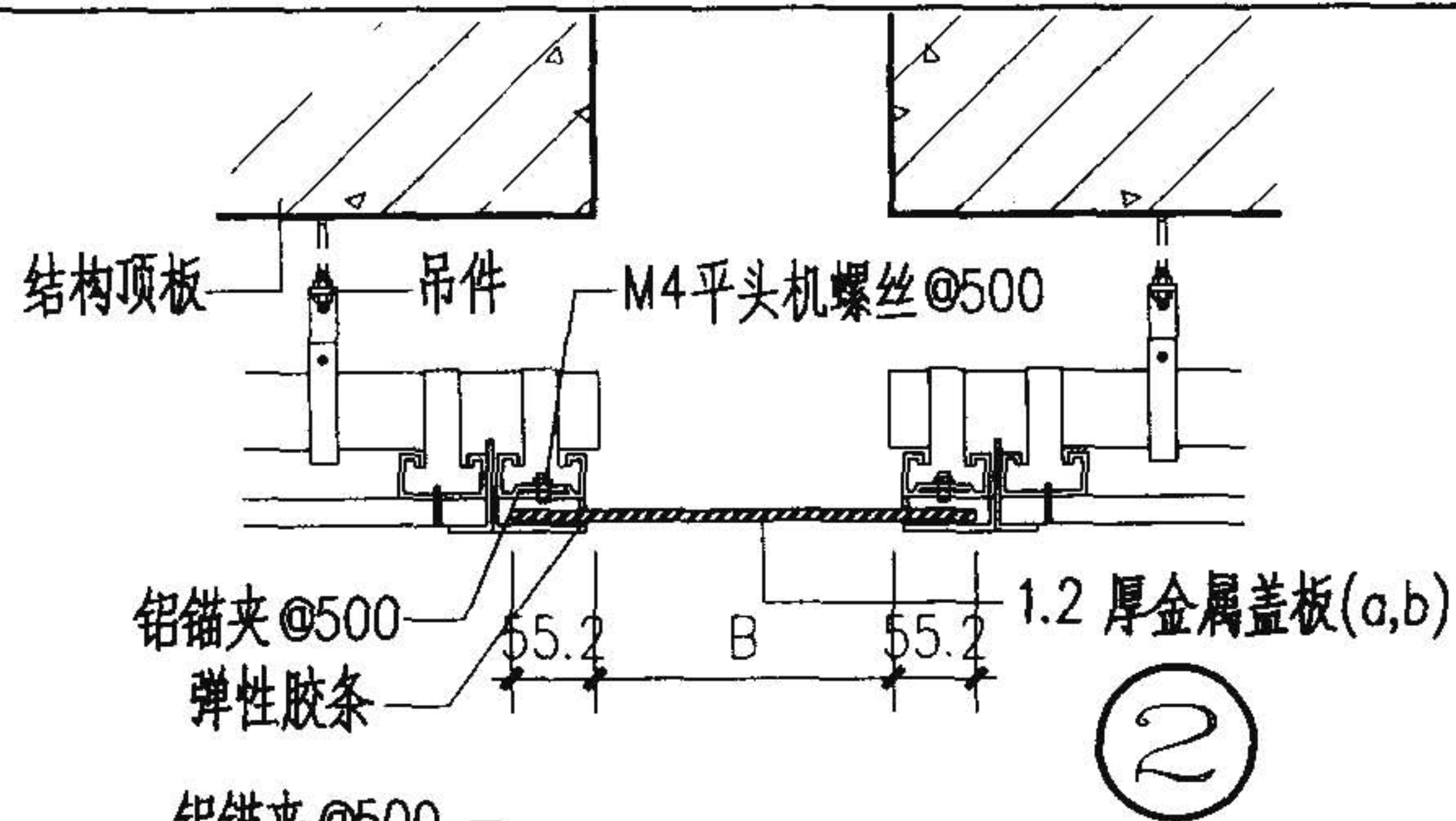
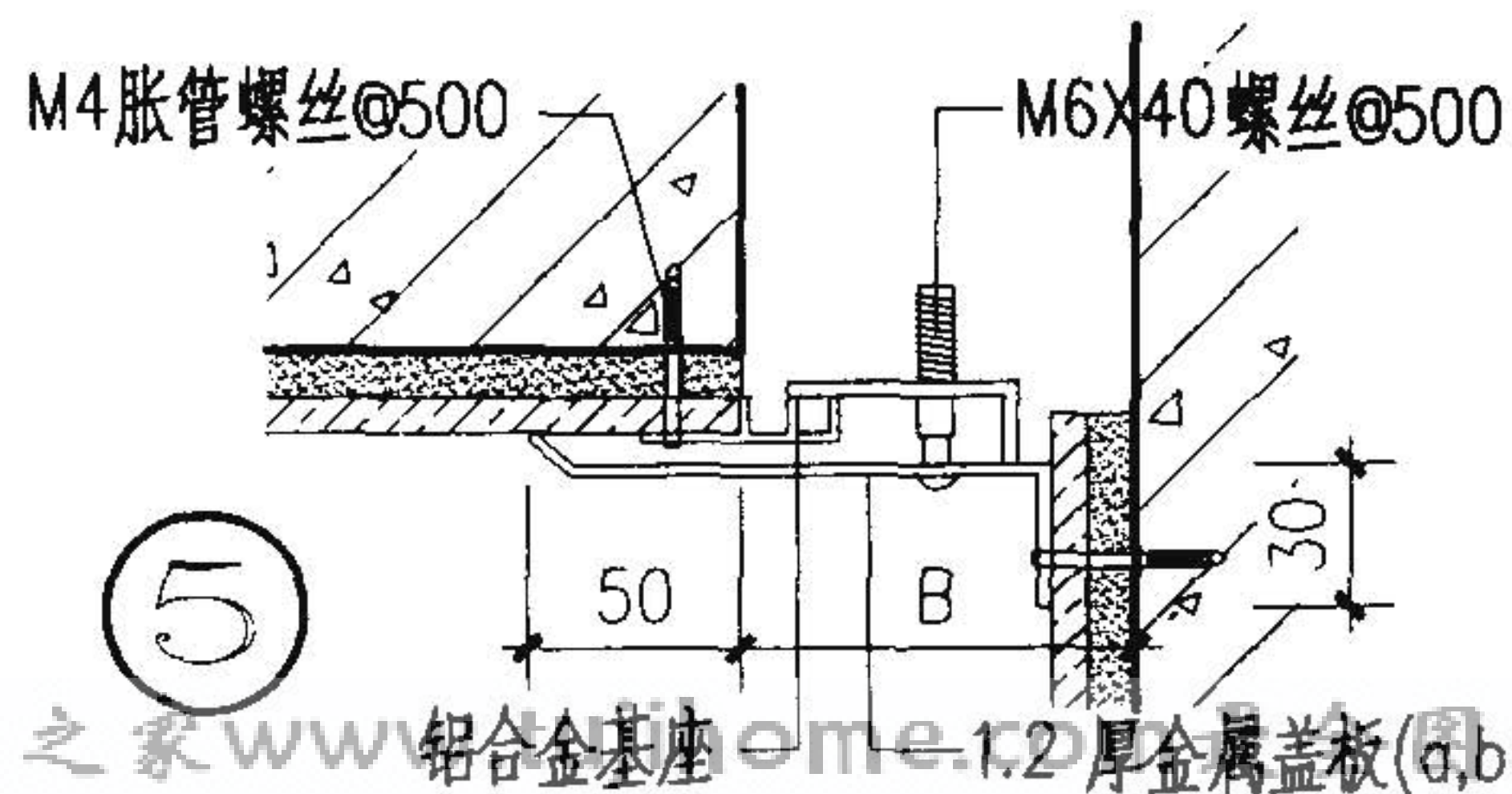
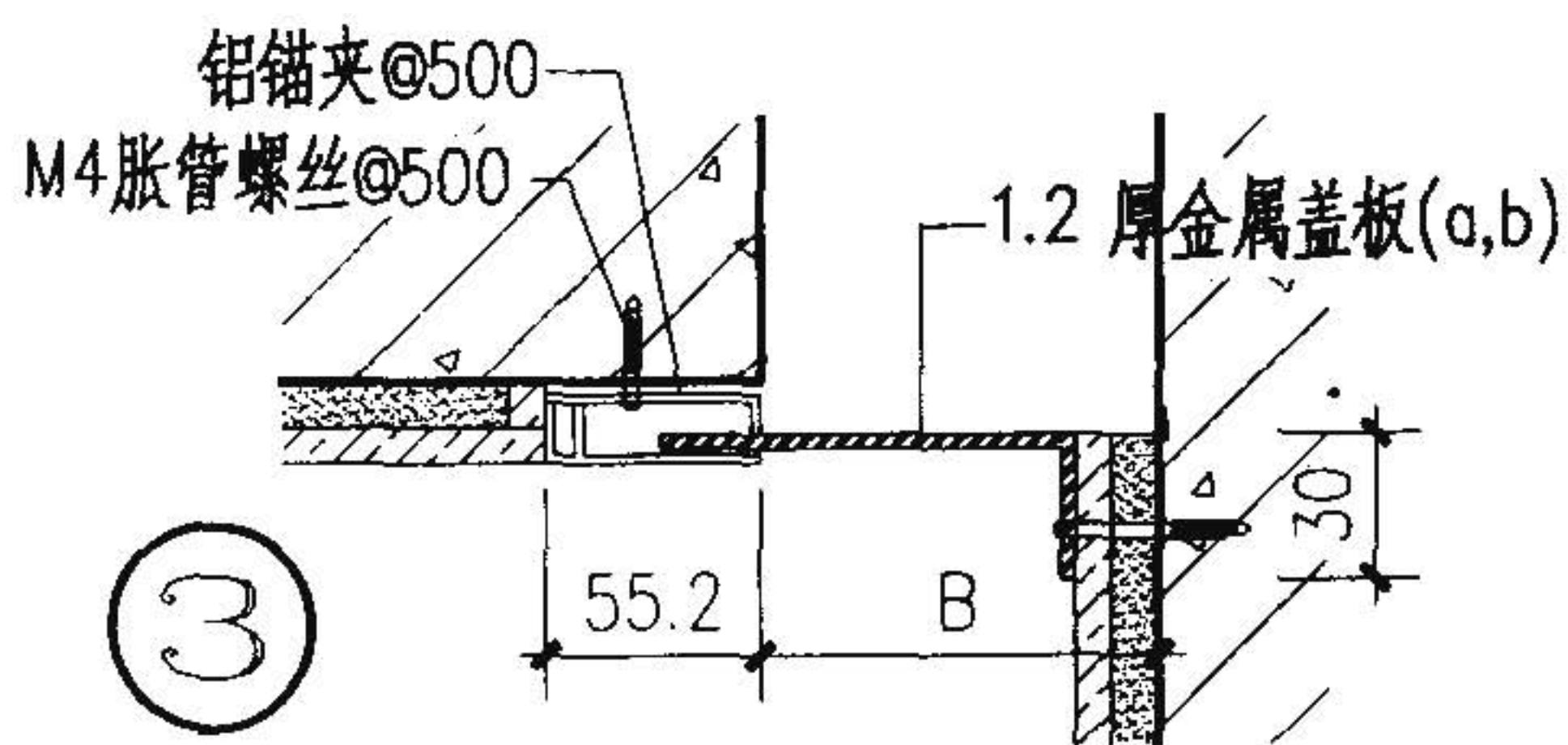
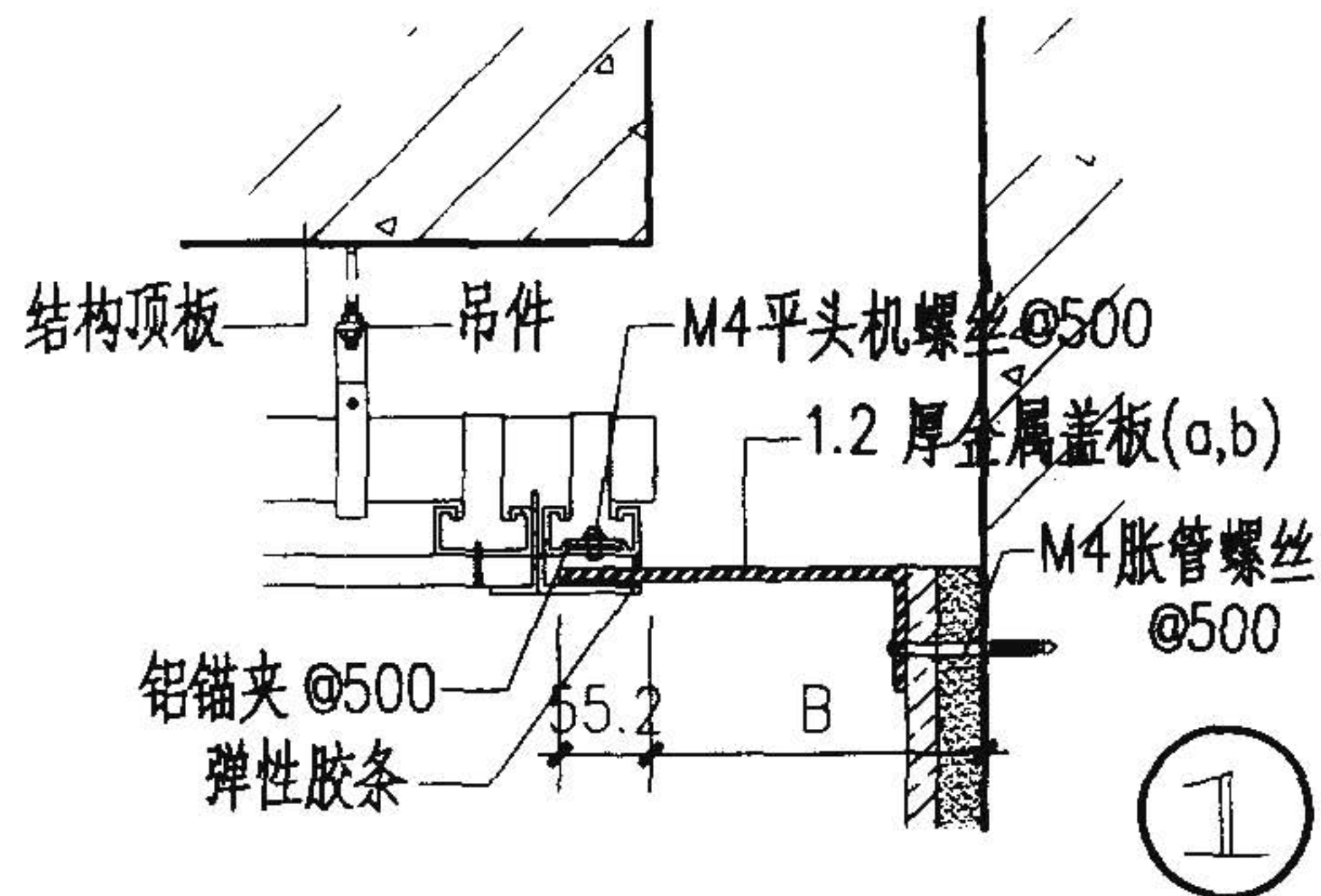
Ⓒ



Ⓓ

注：缝宽  $a$  见单体工程图

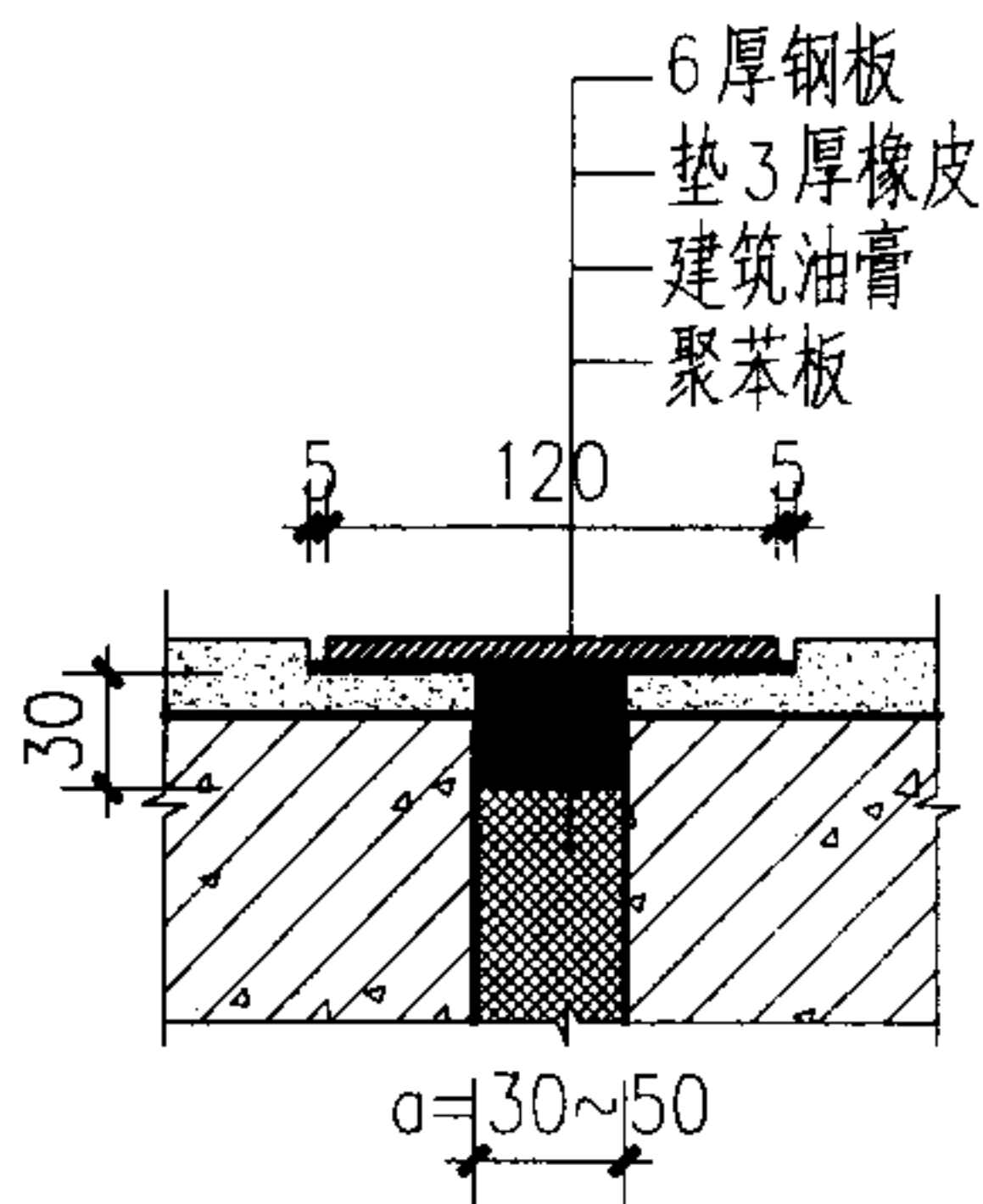




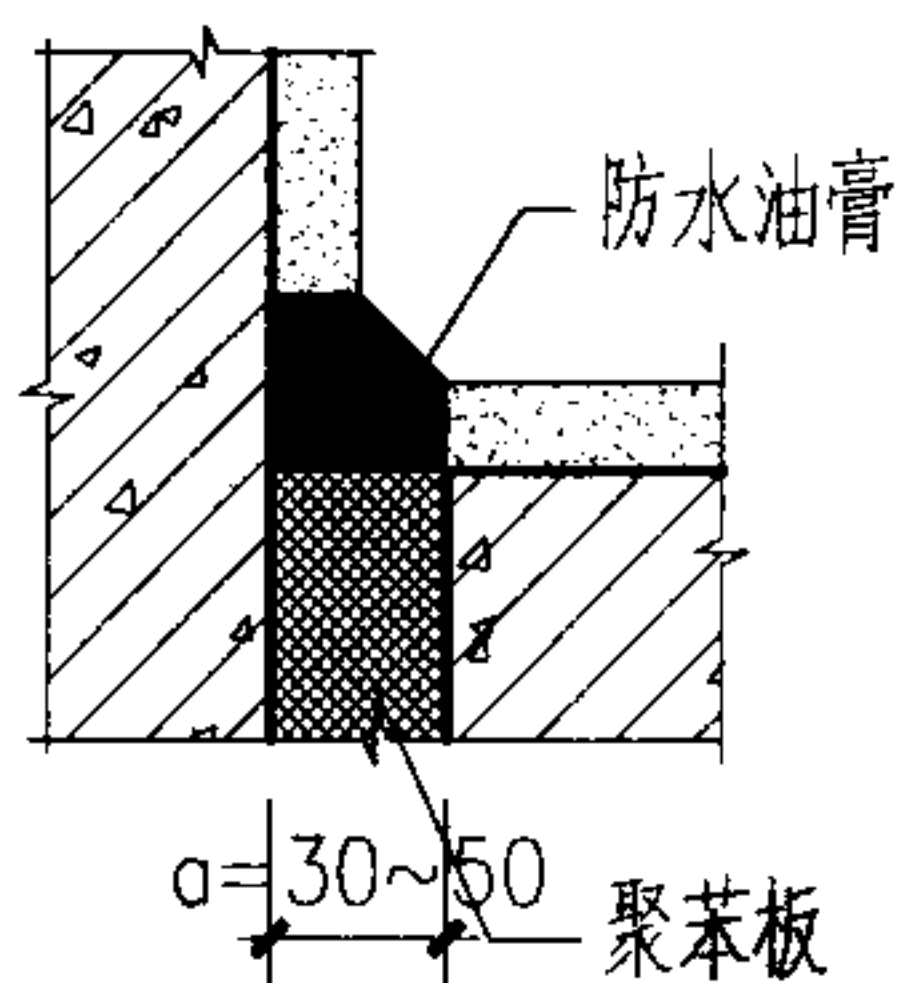
注：1. 缝宽B详见单体工程图，2. a为铝合金，b为不锈钢  
3. 铝锚夹、铝合金基座均为成品

校 对	下皮	内墙及顶棚变形缝(七)	图集号	皖 03J903
设 计	邵新		页 号	14
制 图				

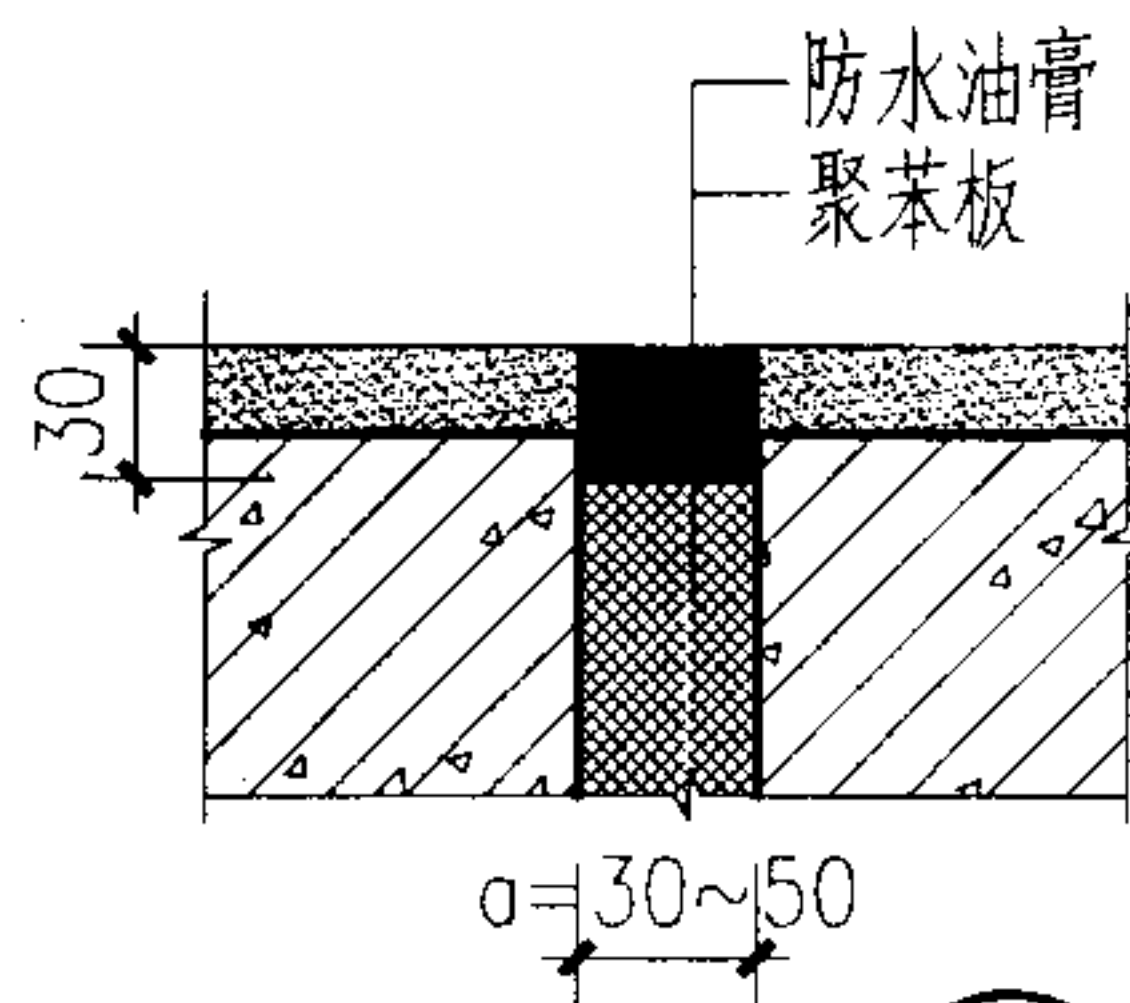




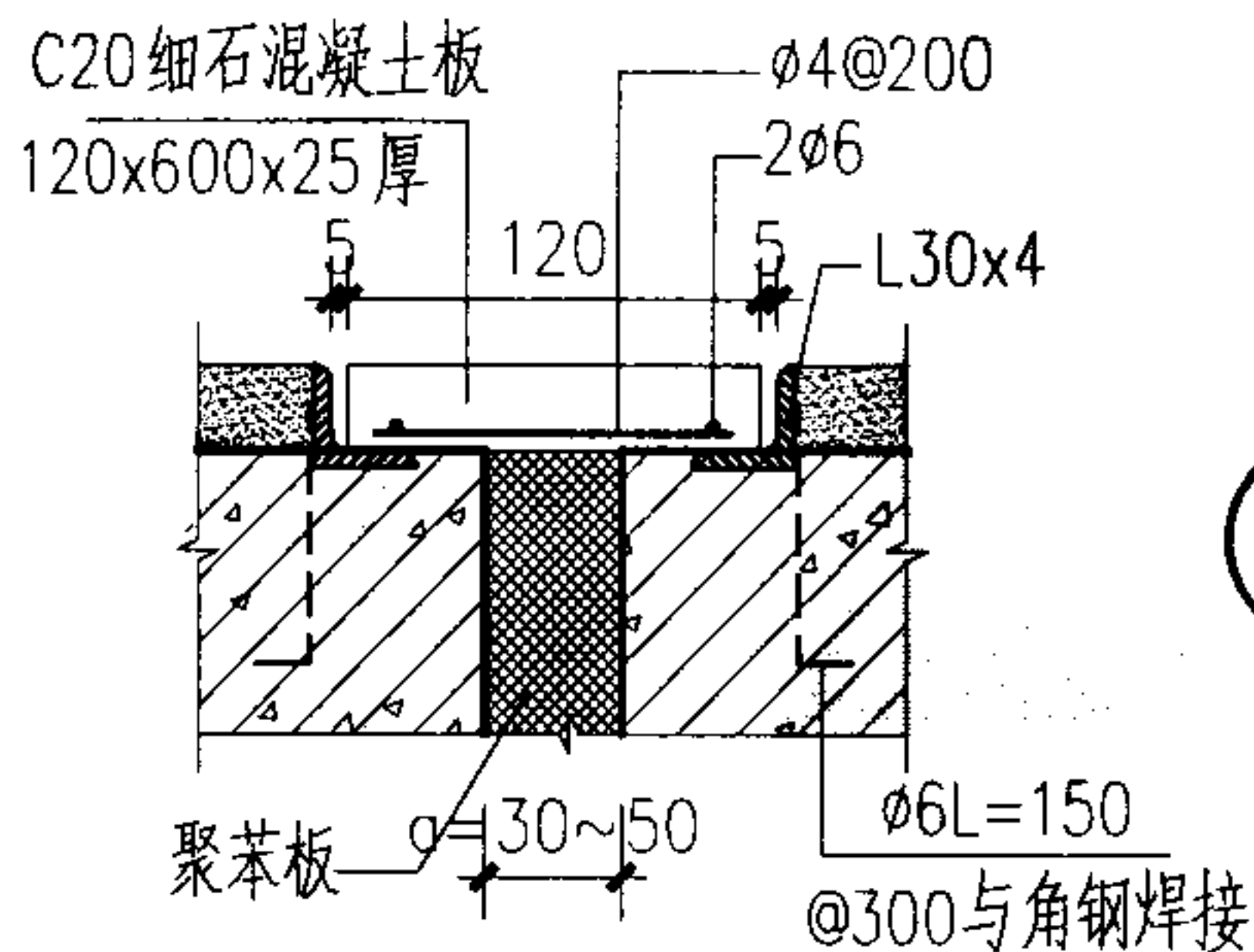
①



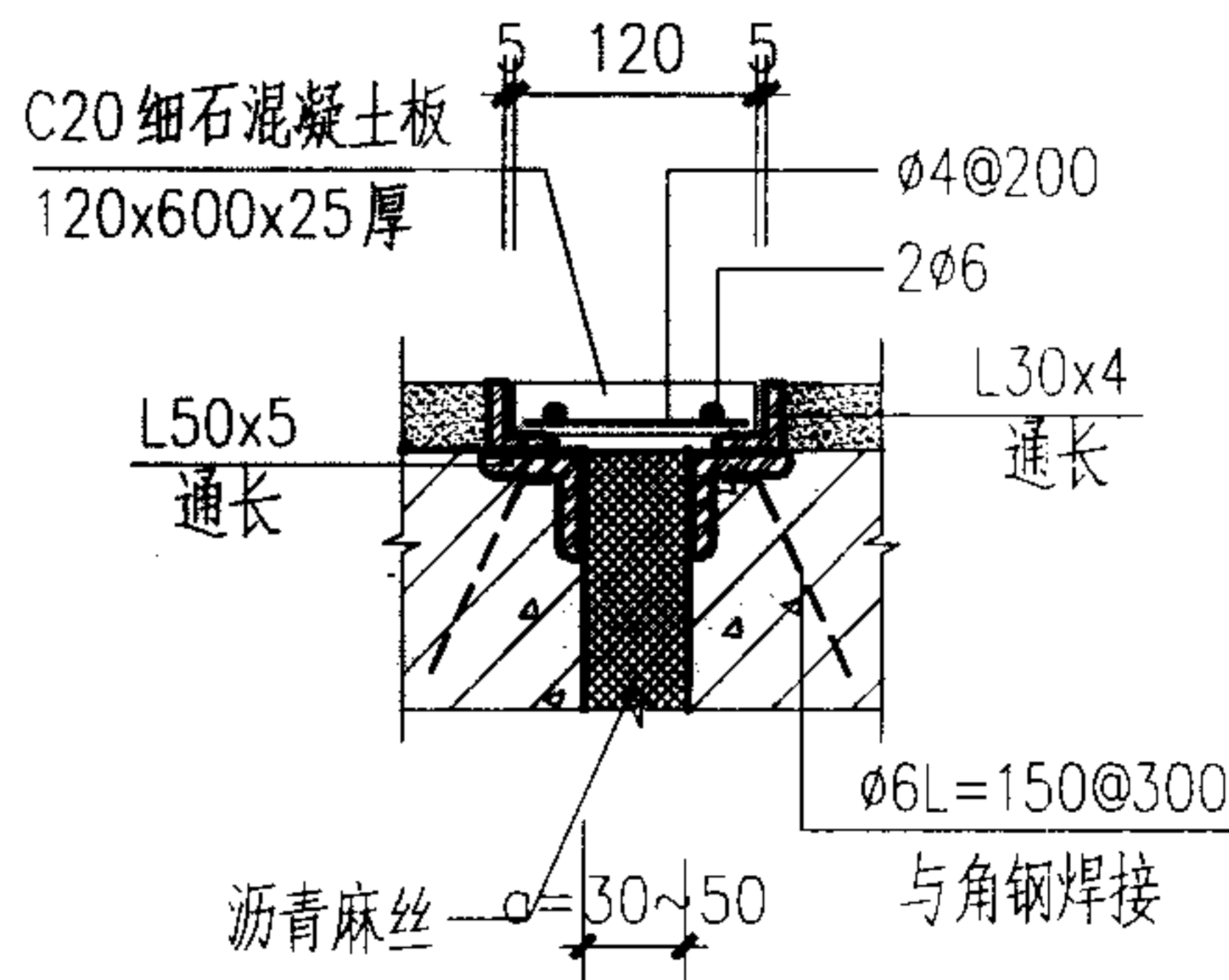
②



③



④



⑤

注: 1. 缝宽  $a$  见单体工程图

2. 凡楼面变形缝内均应采用岩棉填塞 ( $h \geq 100$ )  
地面用聚苯板填塞

校 对  
设 计  
制 图

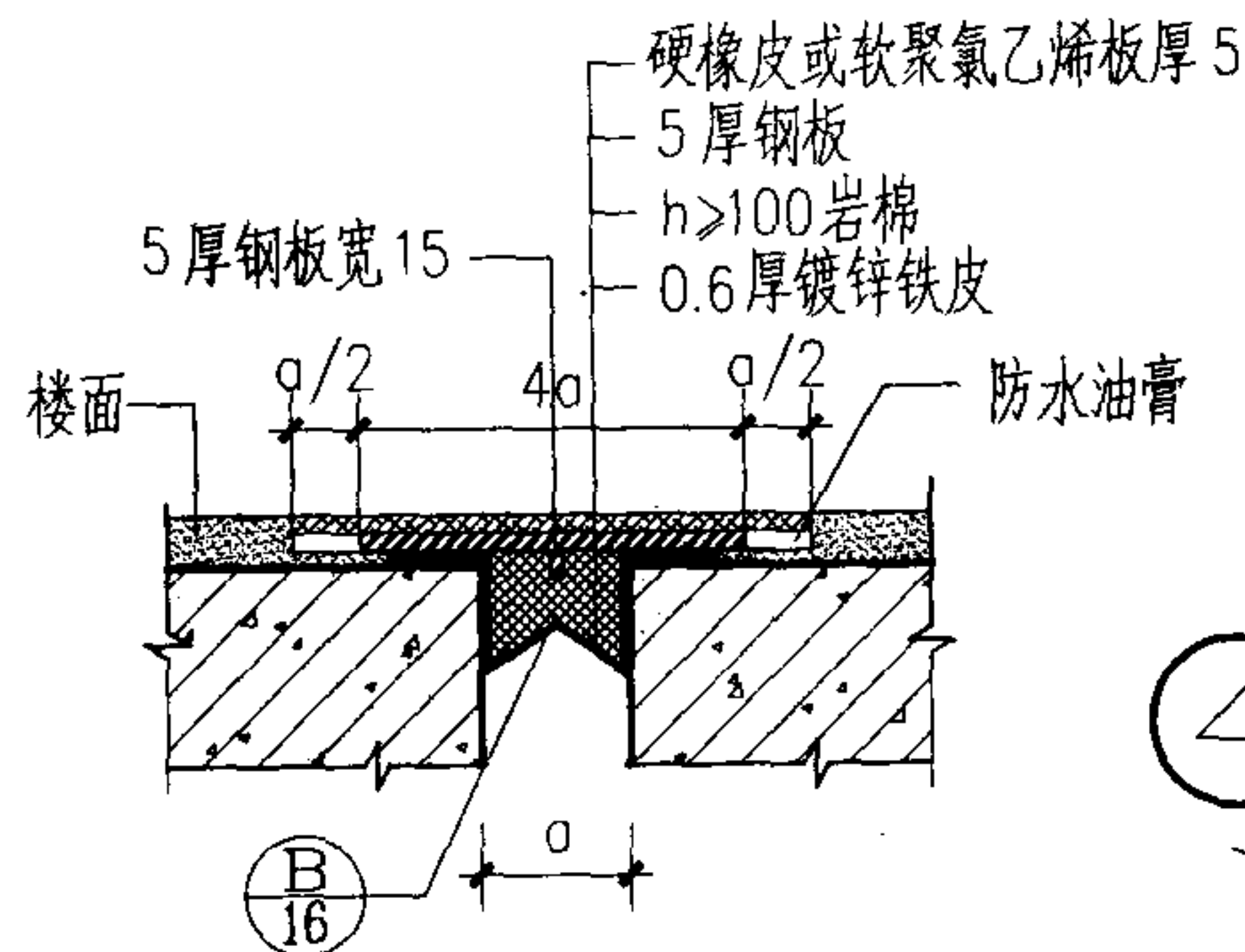
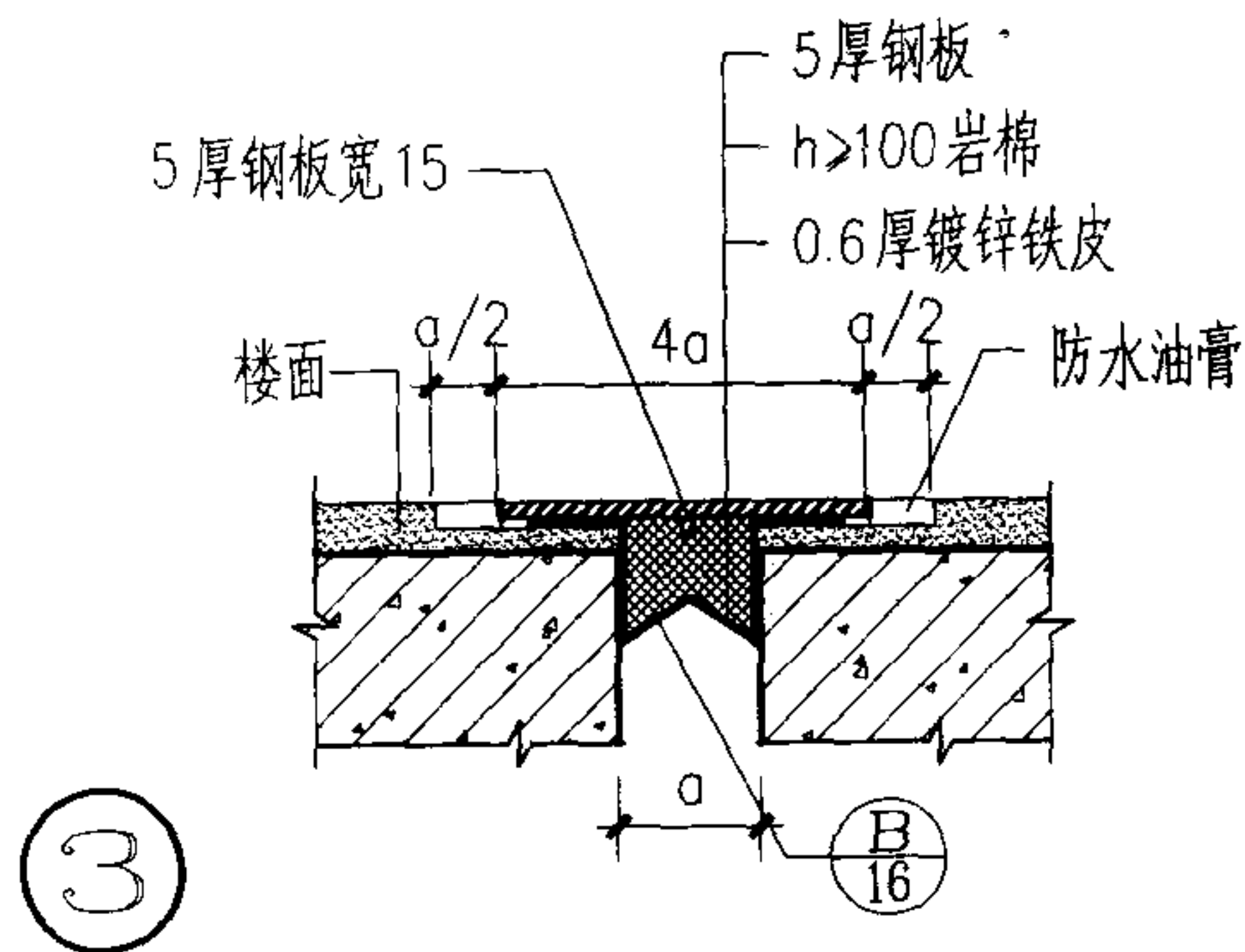
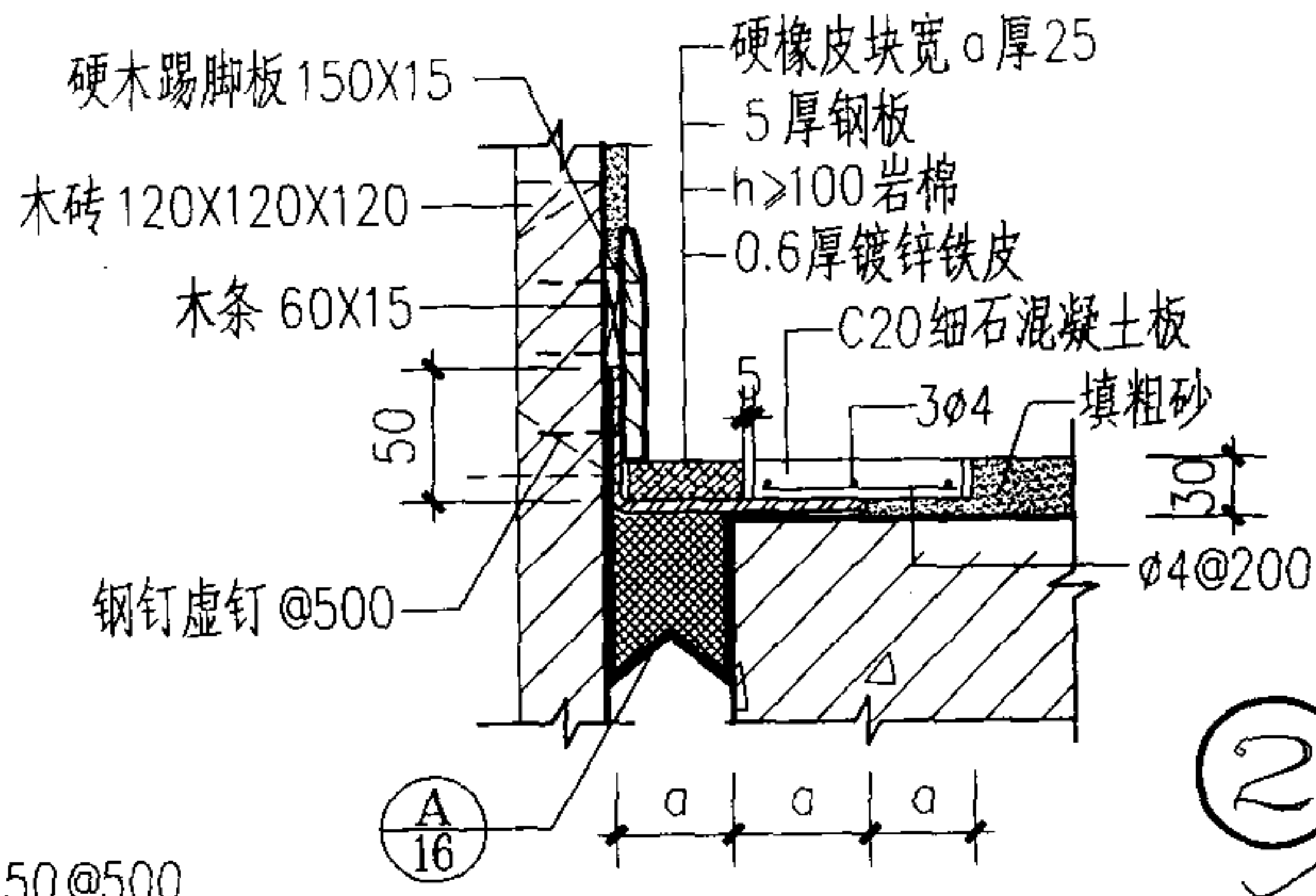
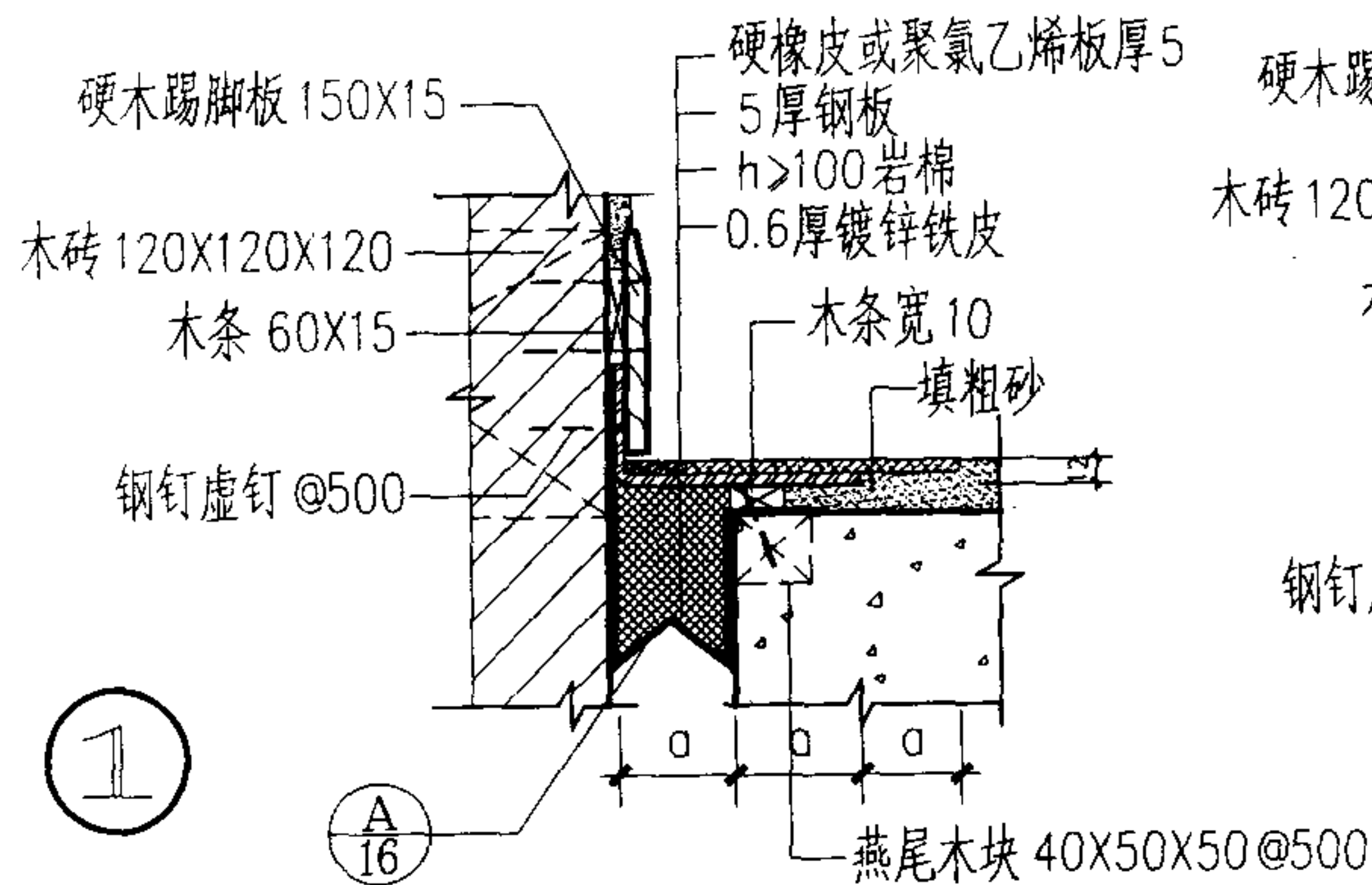
丁 强  
郭 伟 伟

楼地面变形缝 (一)

图集号 皖 03J903

页 号 15





注 1. 适用于缝宽  $a \leq 150$  的抗震缝  
2. 缝宽  $a$  见单位工程图

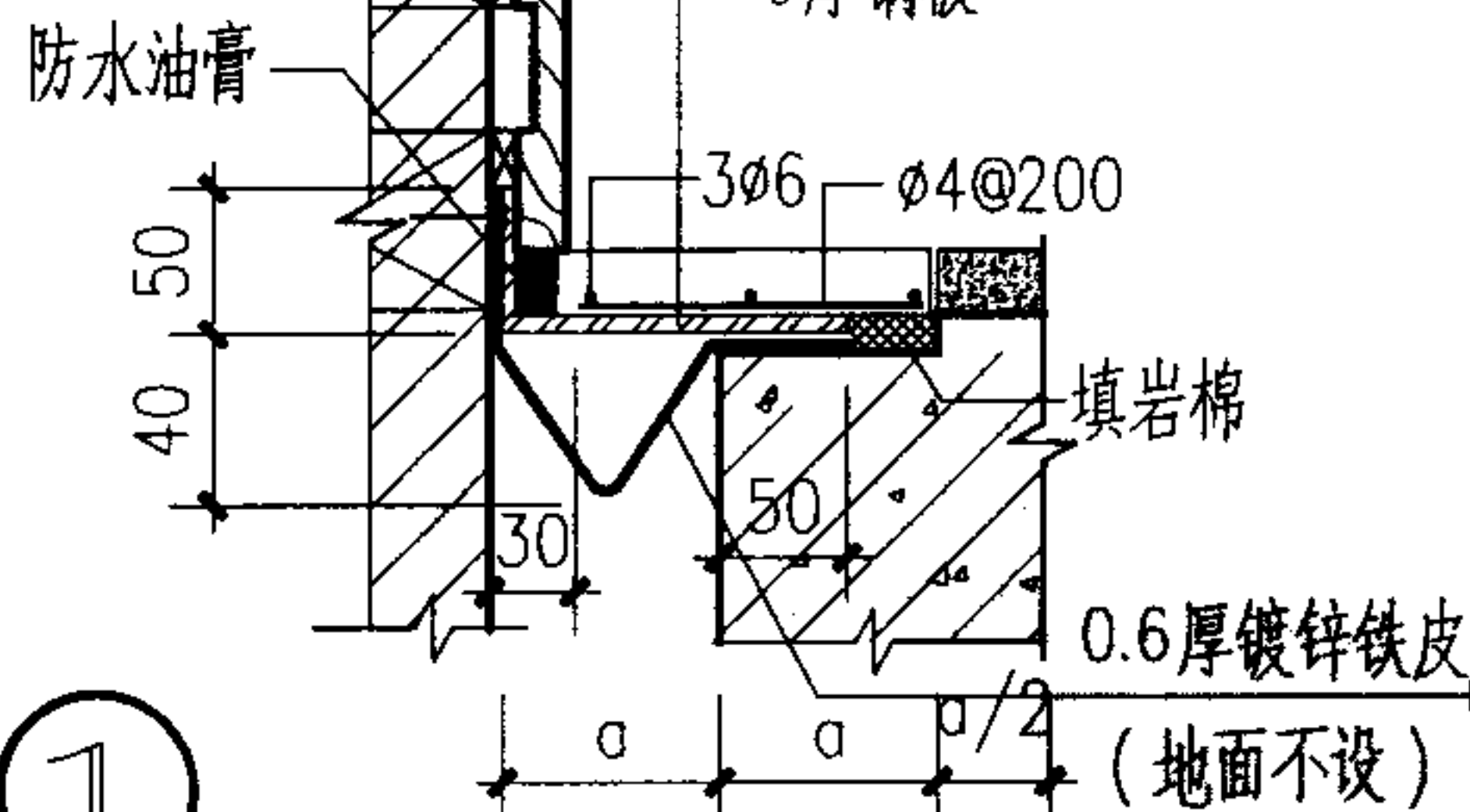
校 对	丁 强
设 计	郭 伟
制 图	

楼地面变形缝 (二)

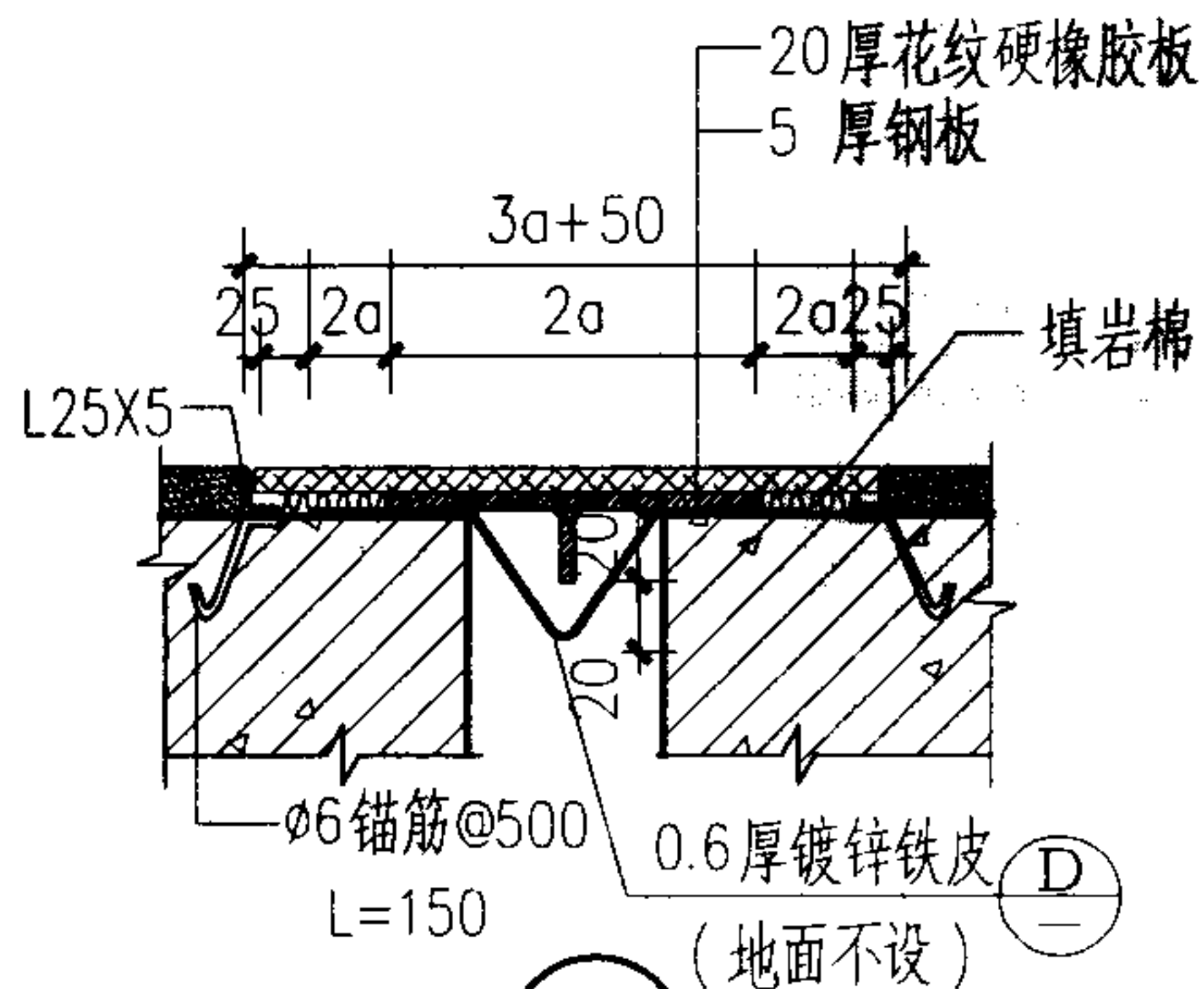
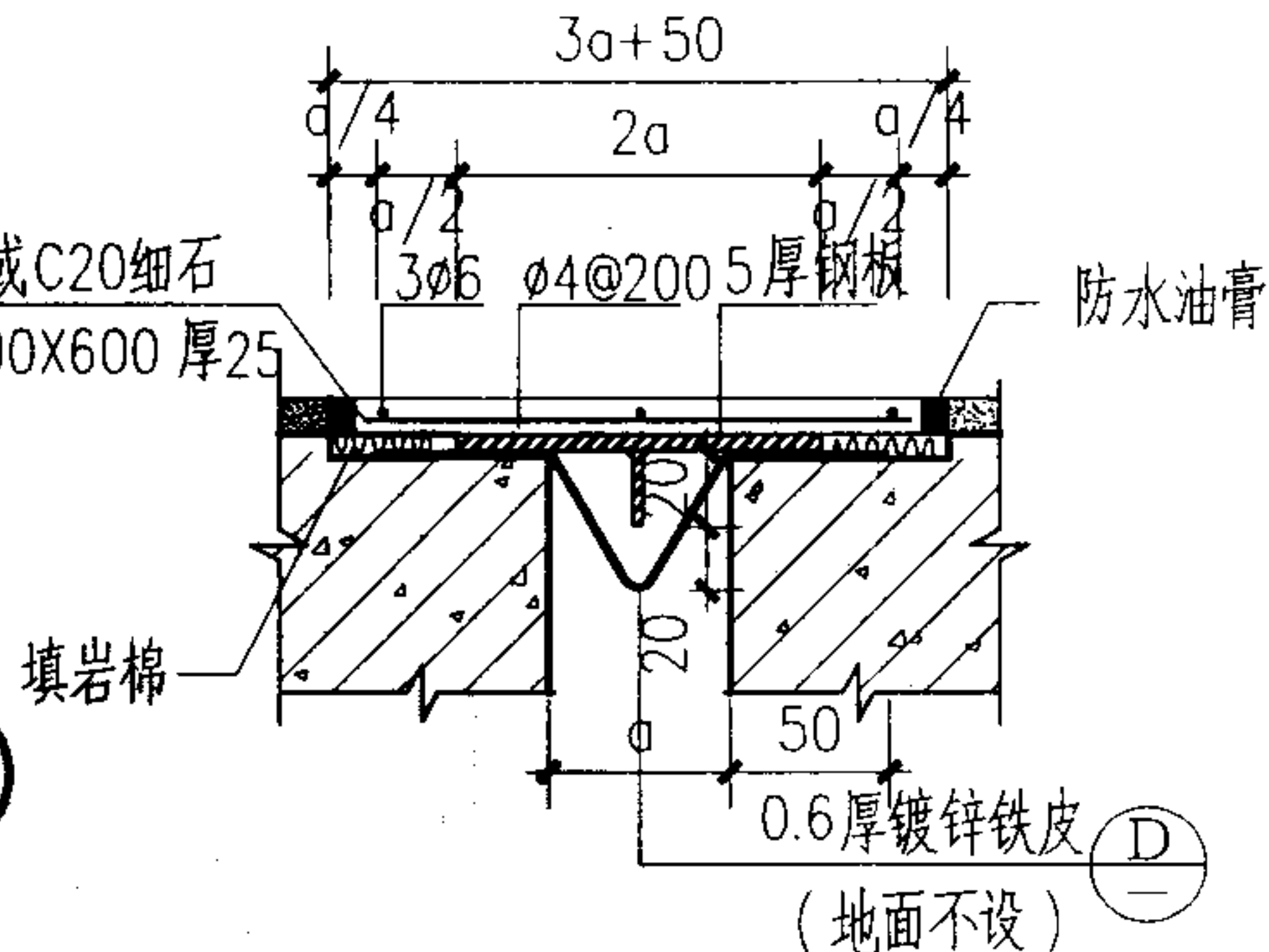
图集号	院 03J903
页 号	16



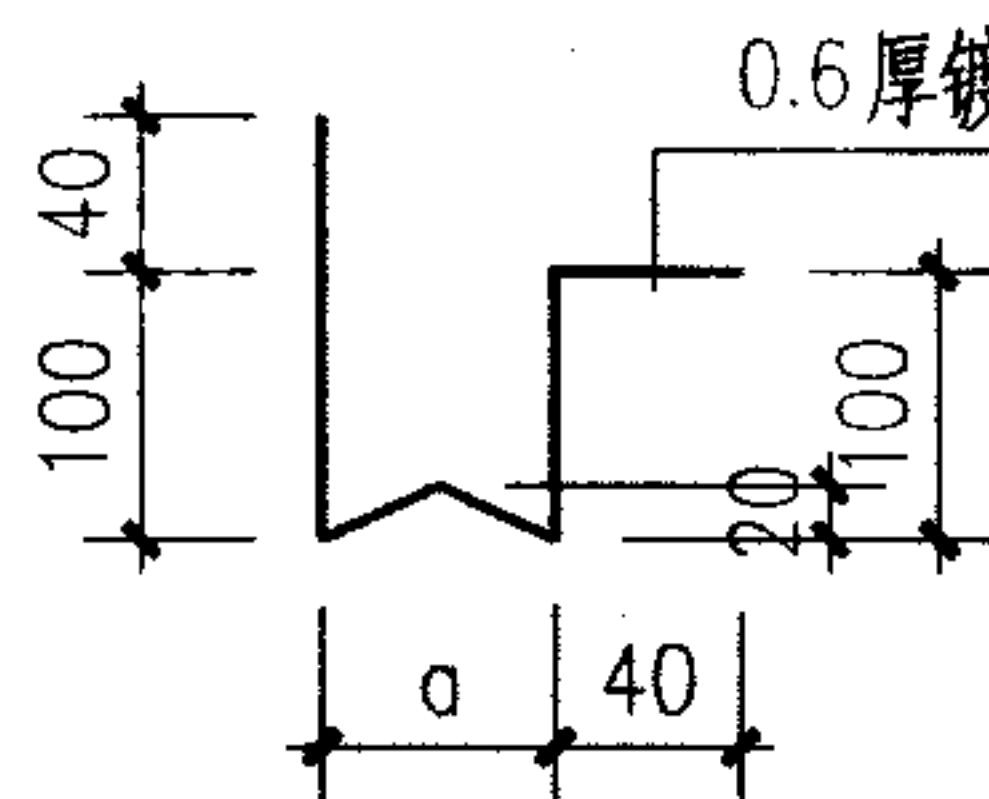
木踢脚板 22X150  
防水石膏  
预制水磨石板或C20细石  
混凝土板长 400X600 厚25  
6厚钢板



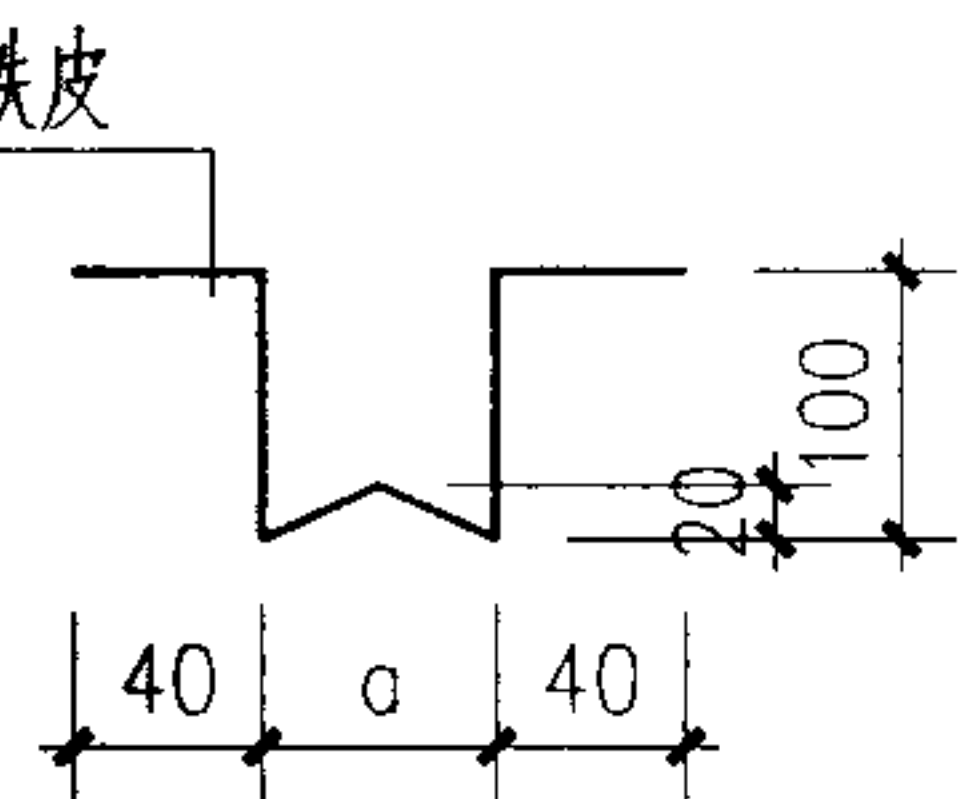
预制水磨石板或C20细石  
混凝土板长 400X600 厚25



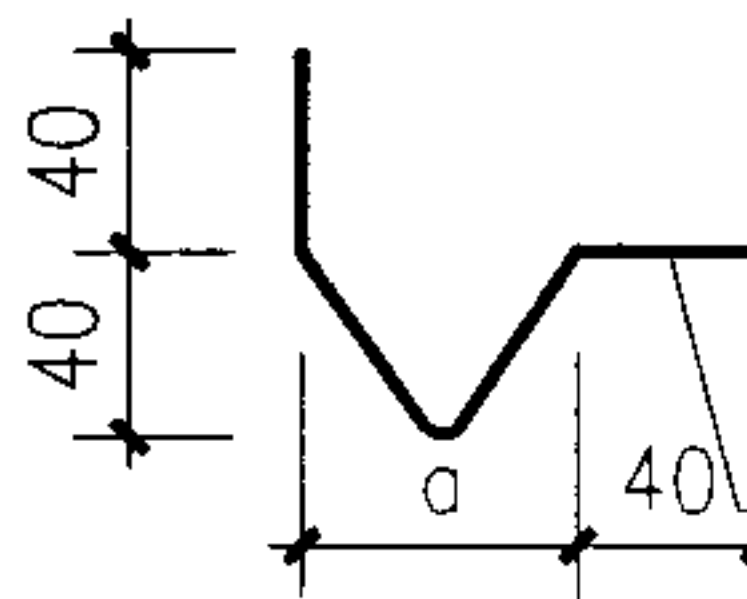
(A)



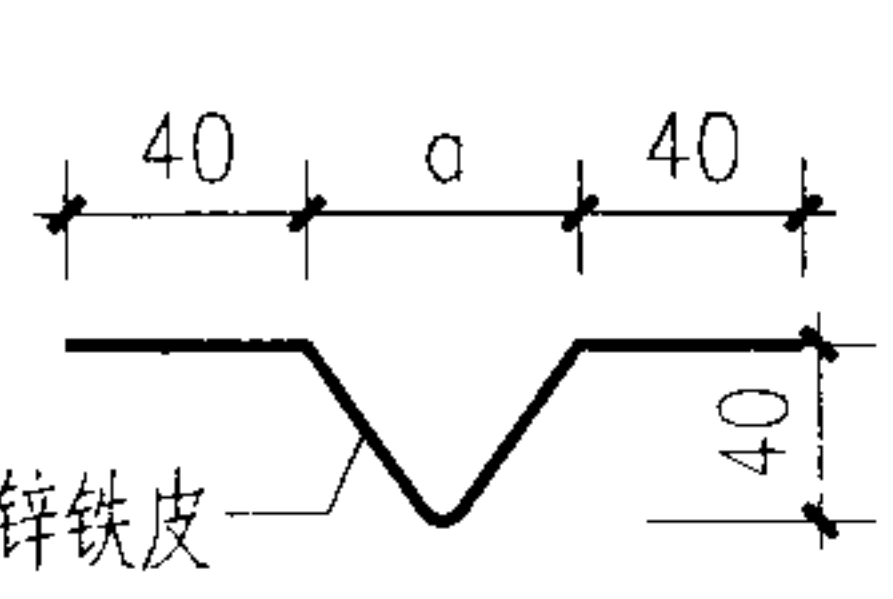
(B)



(C)



(D)



注：缝宽a见单体工程图

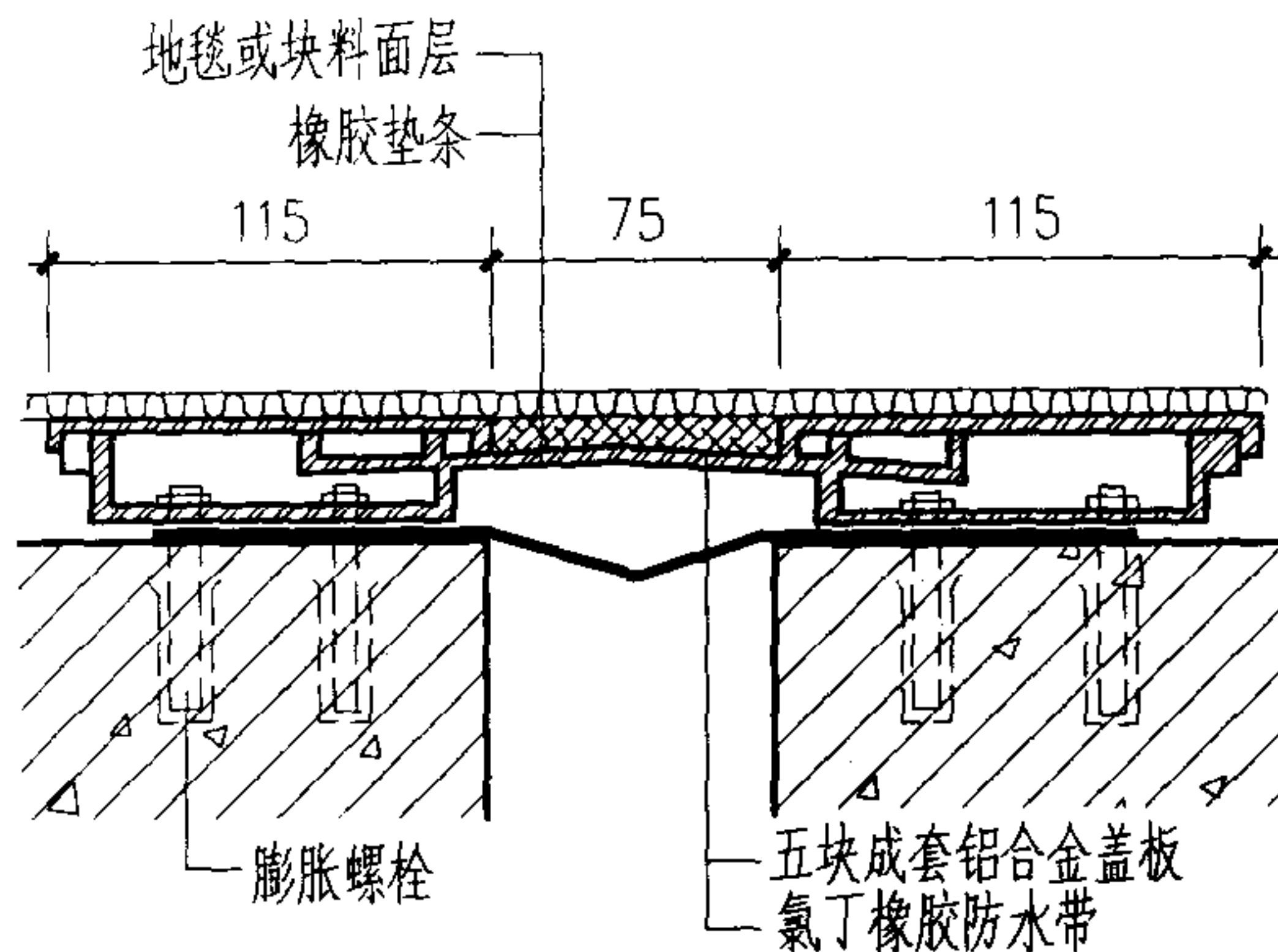
校 对	7/26
设 计	邵晓华
制 图	

楼地面变形缝 (三)

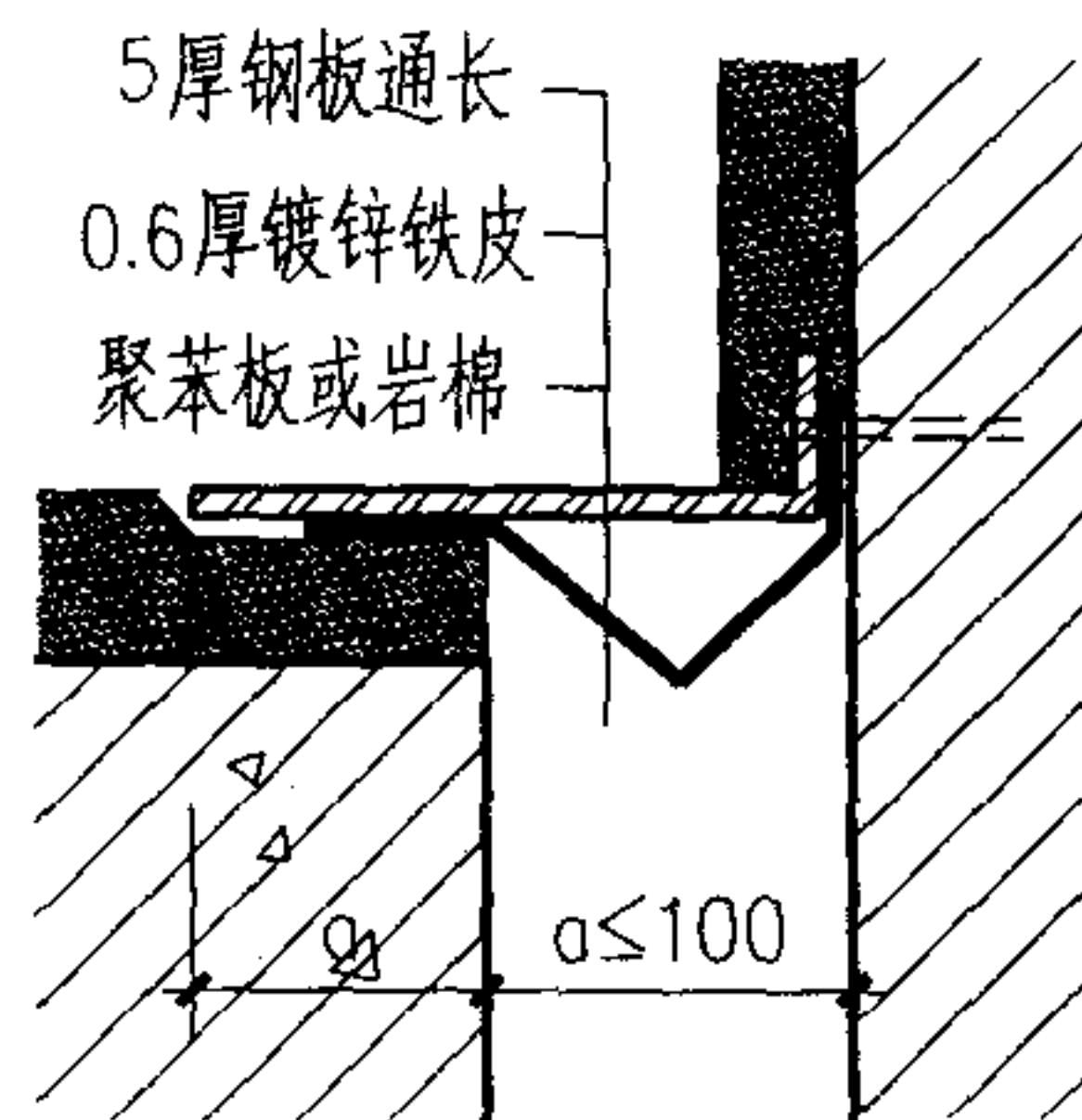
图集号 院 03J903

页 号 17

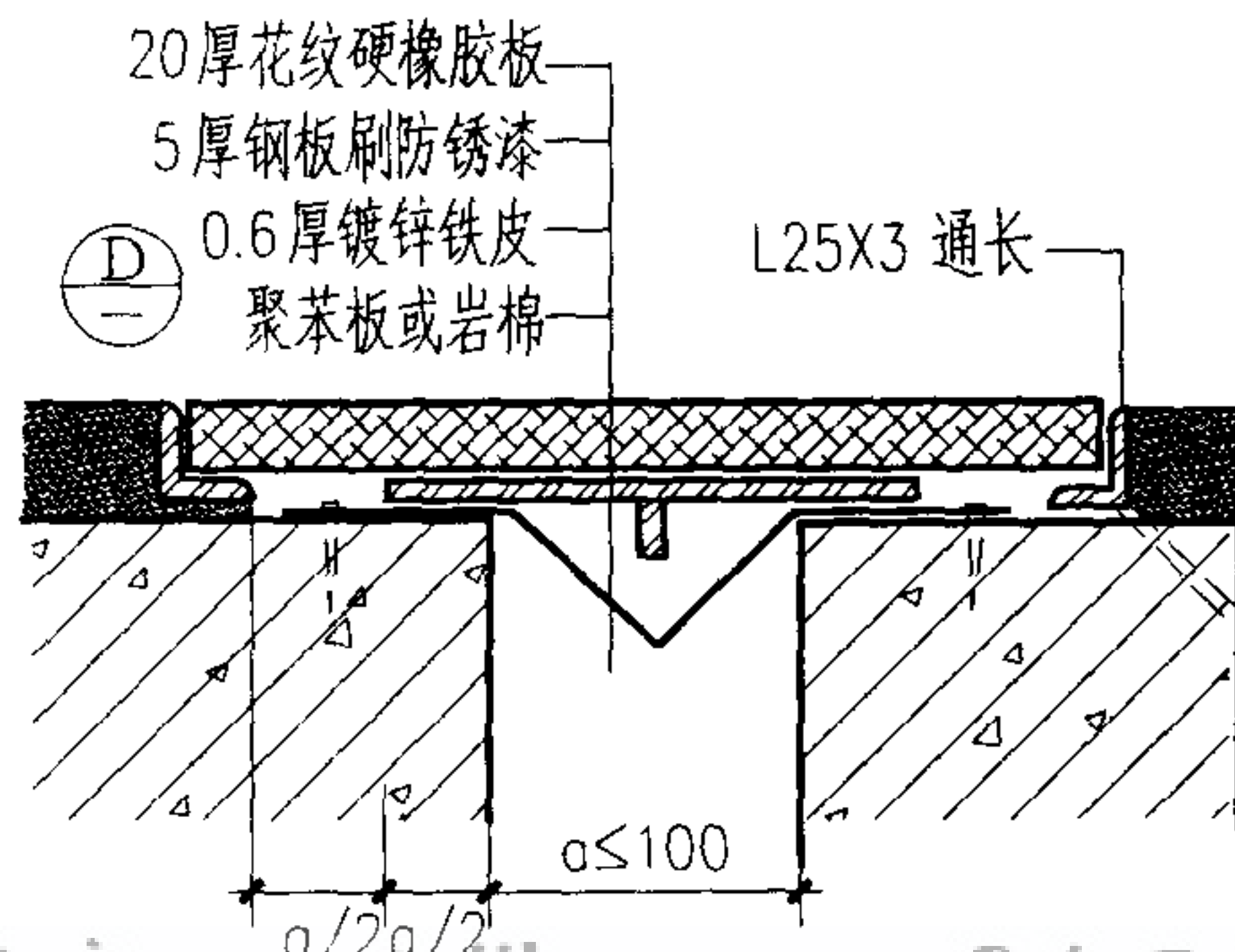




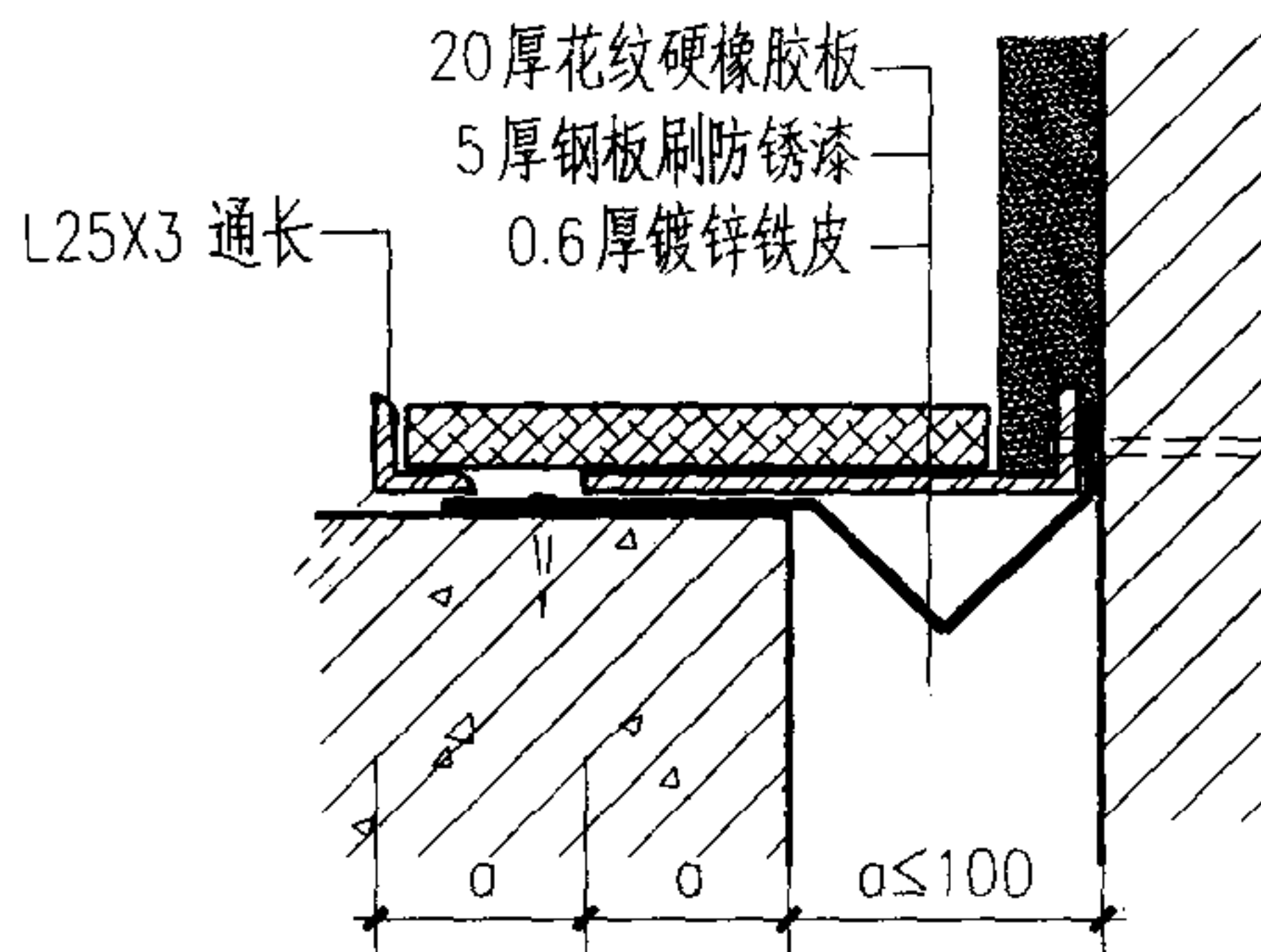
①



③



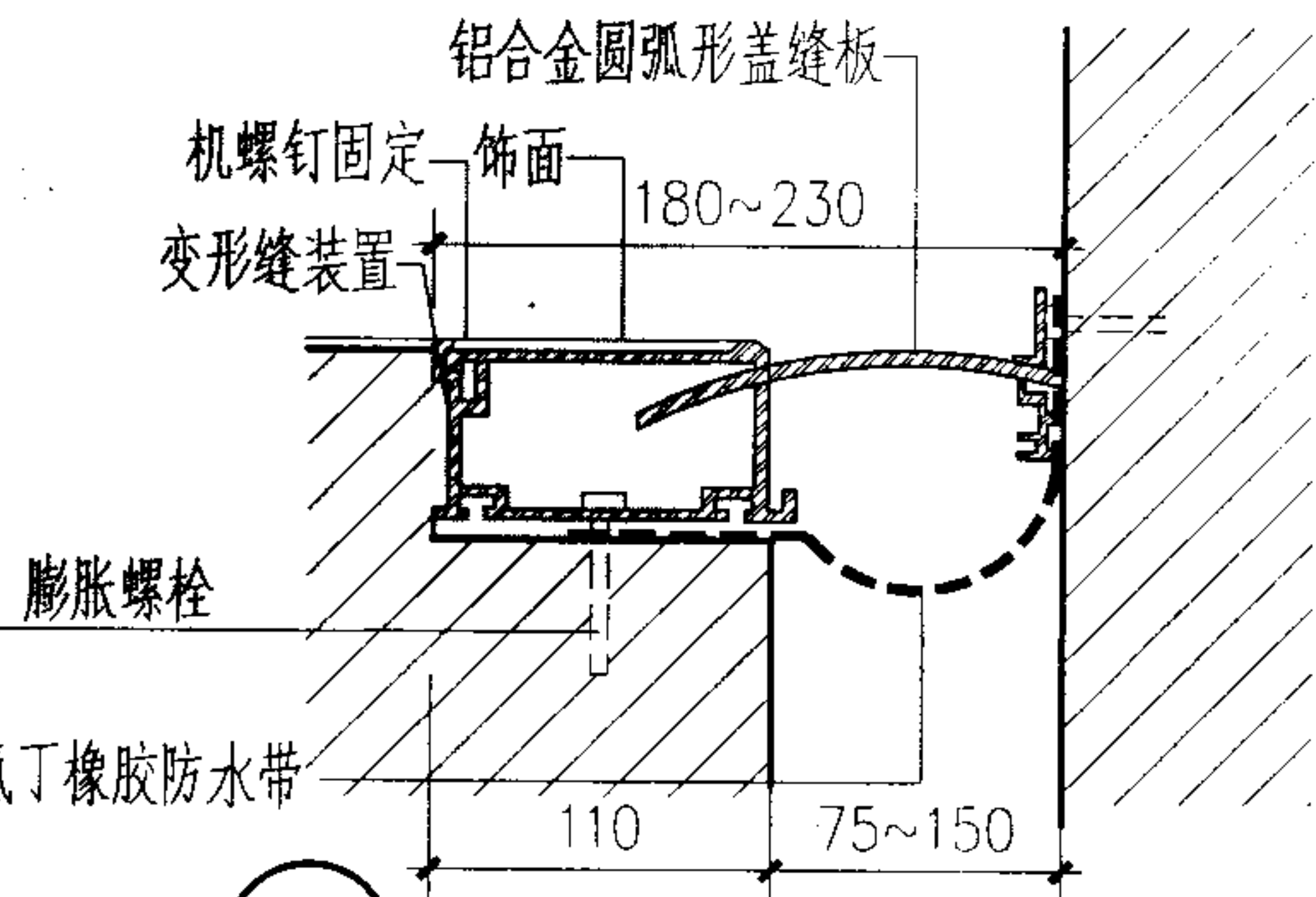
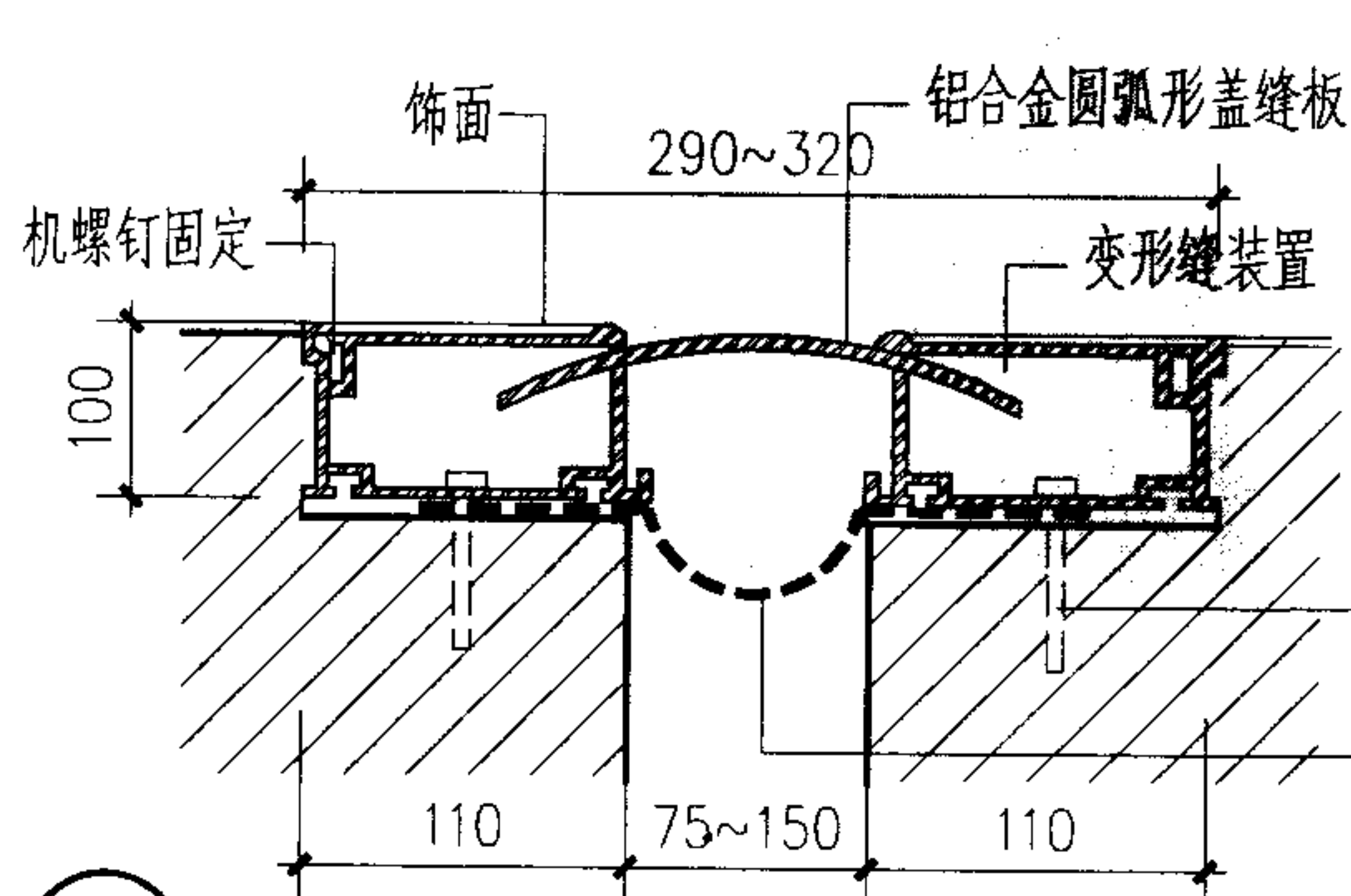
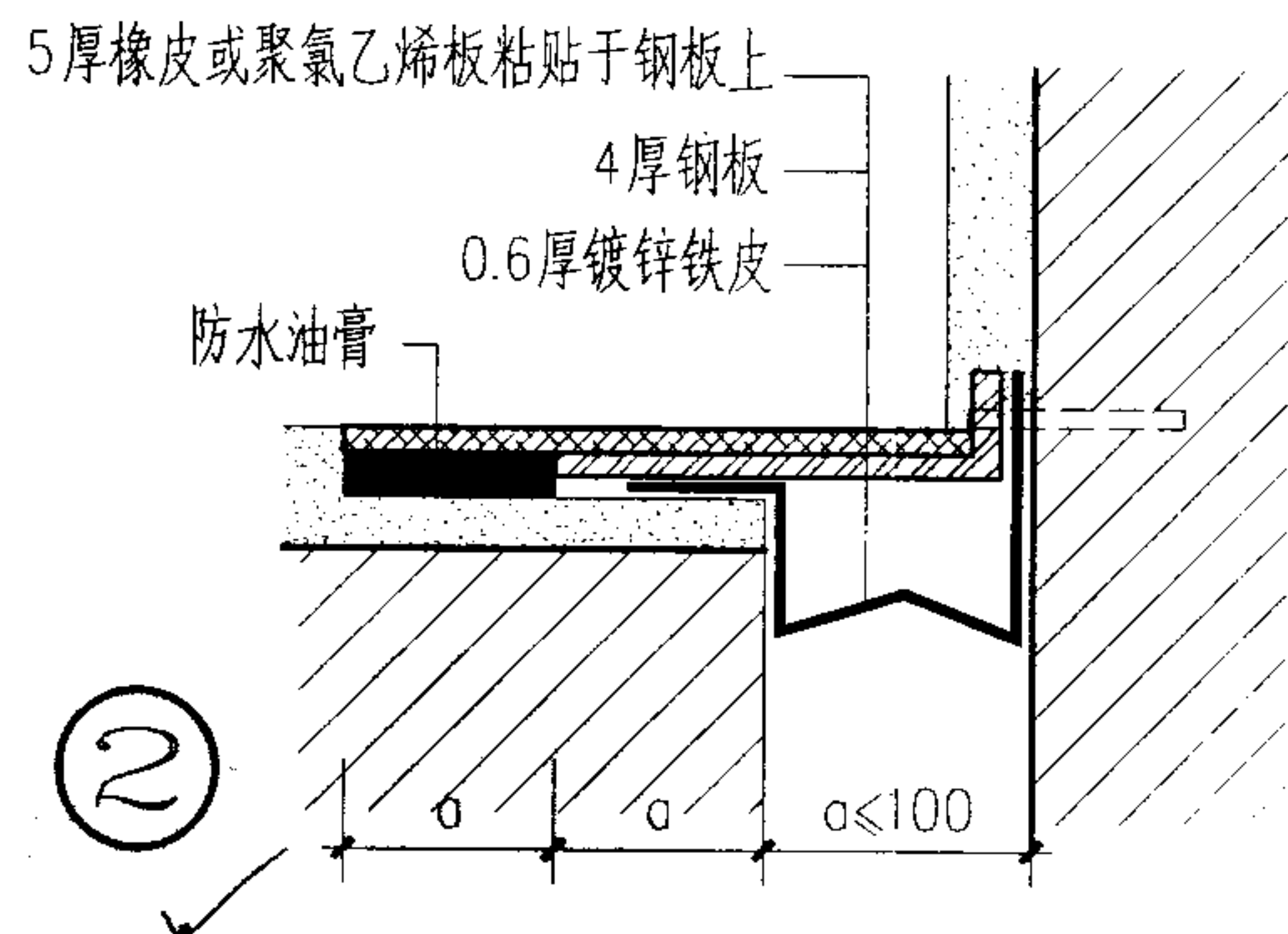
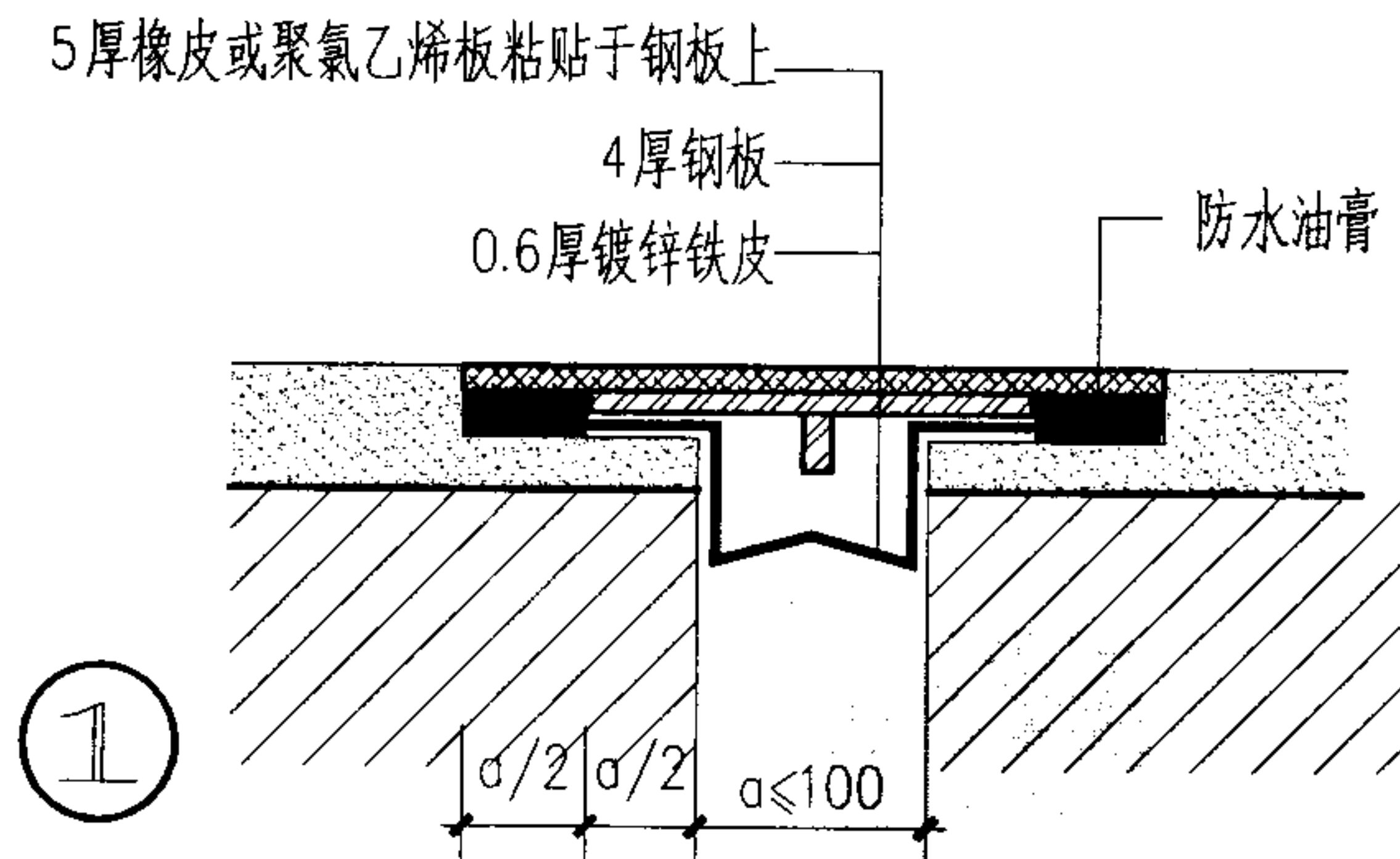
②



④

注：缝宽 $a$ 见单体工程图





注

1. 缝宽 $a$ 见单体工程图

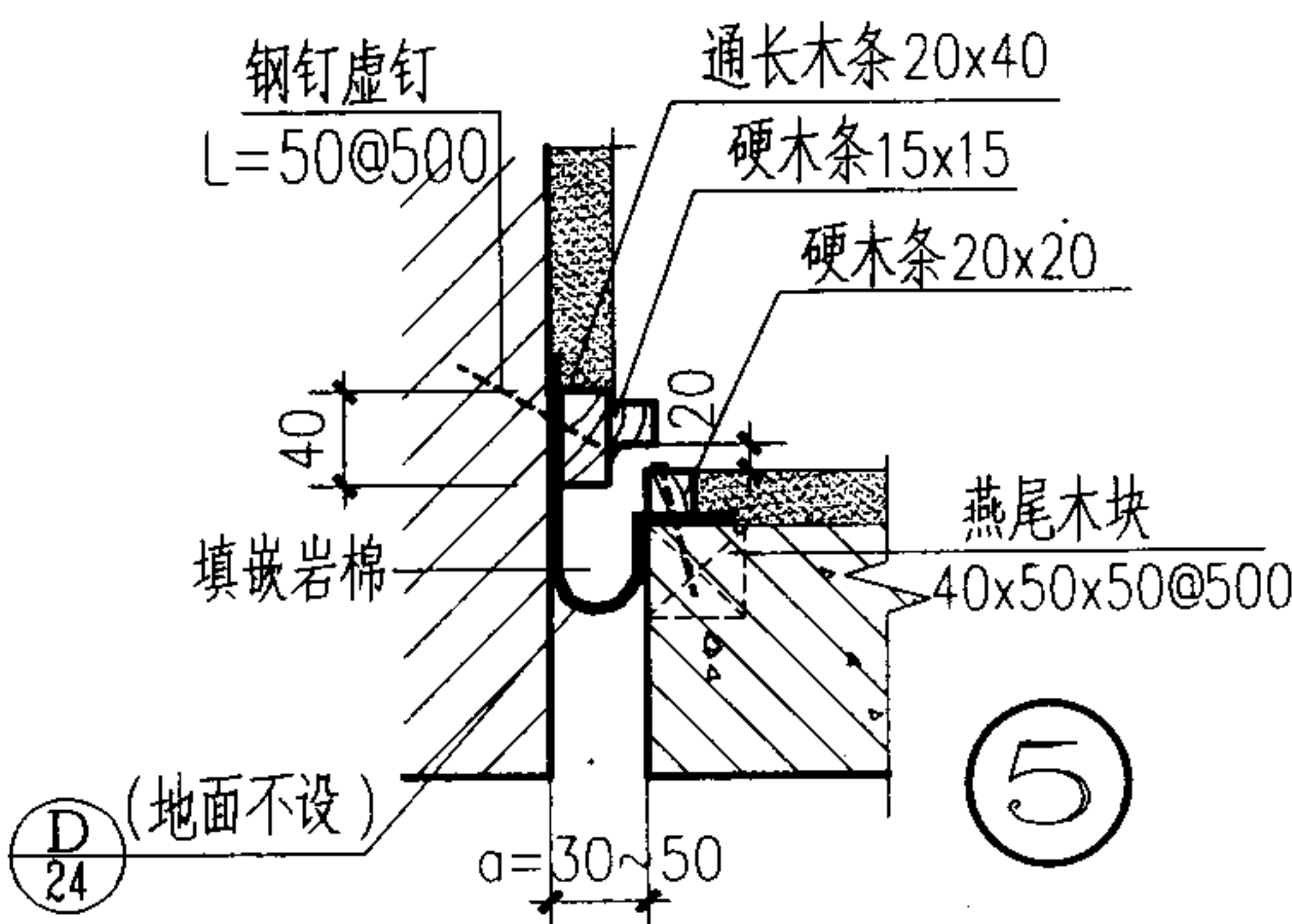
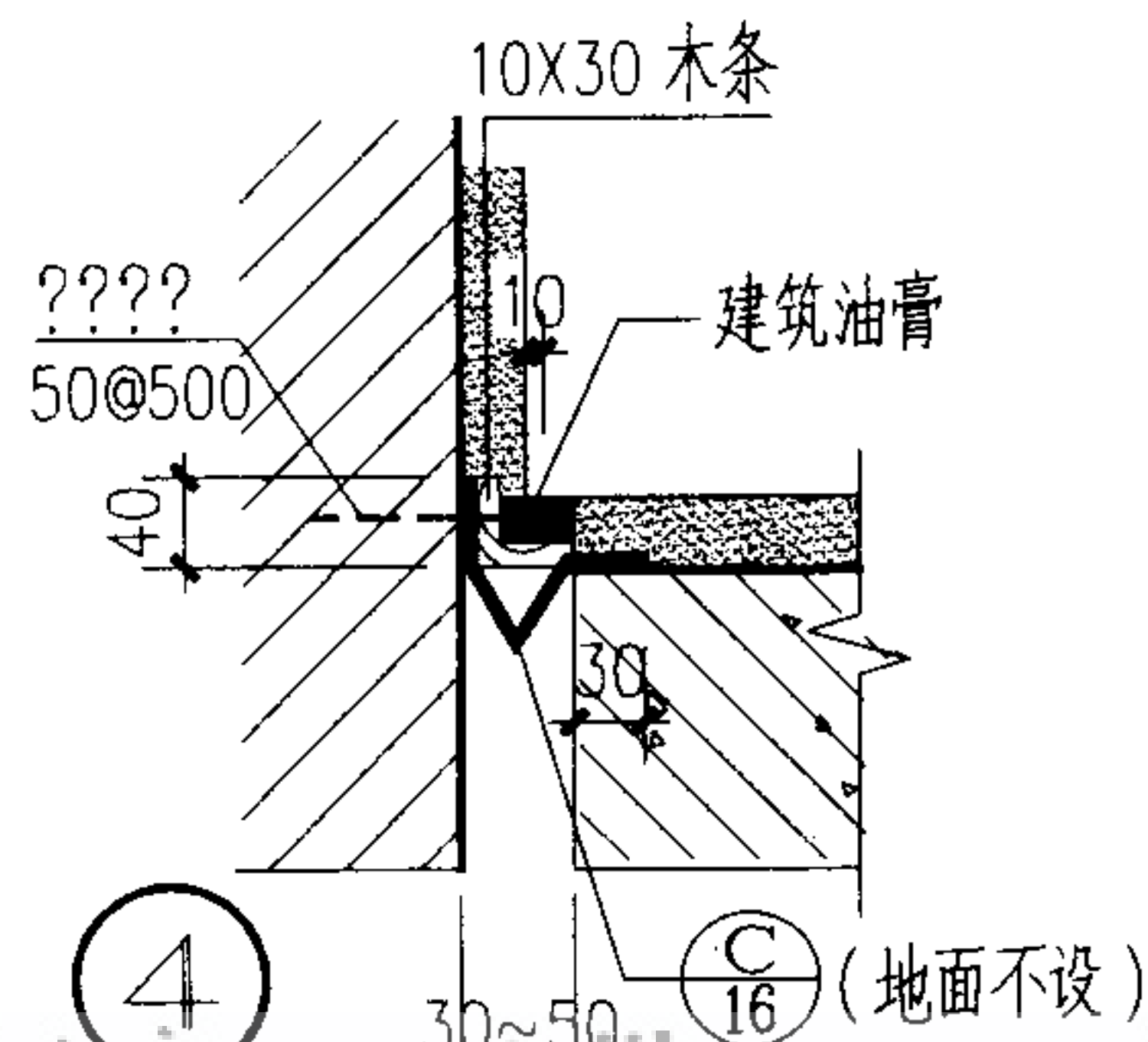
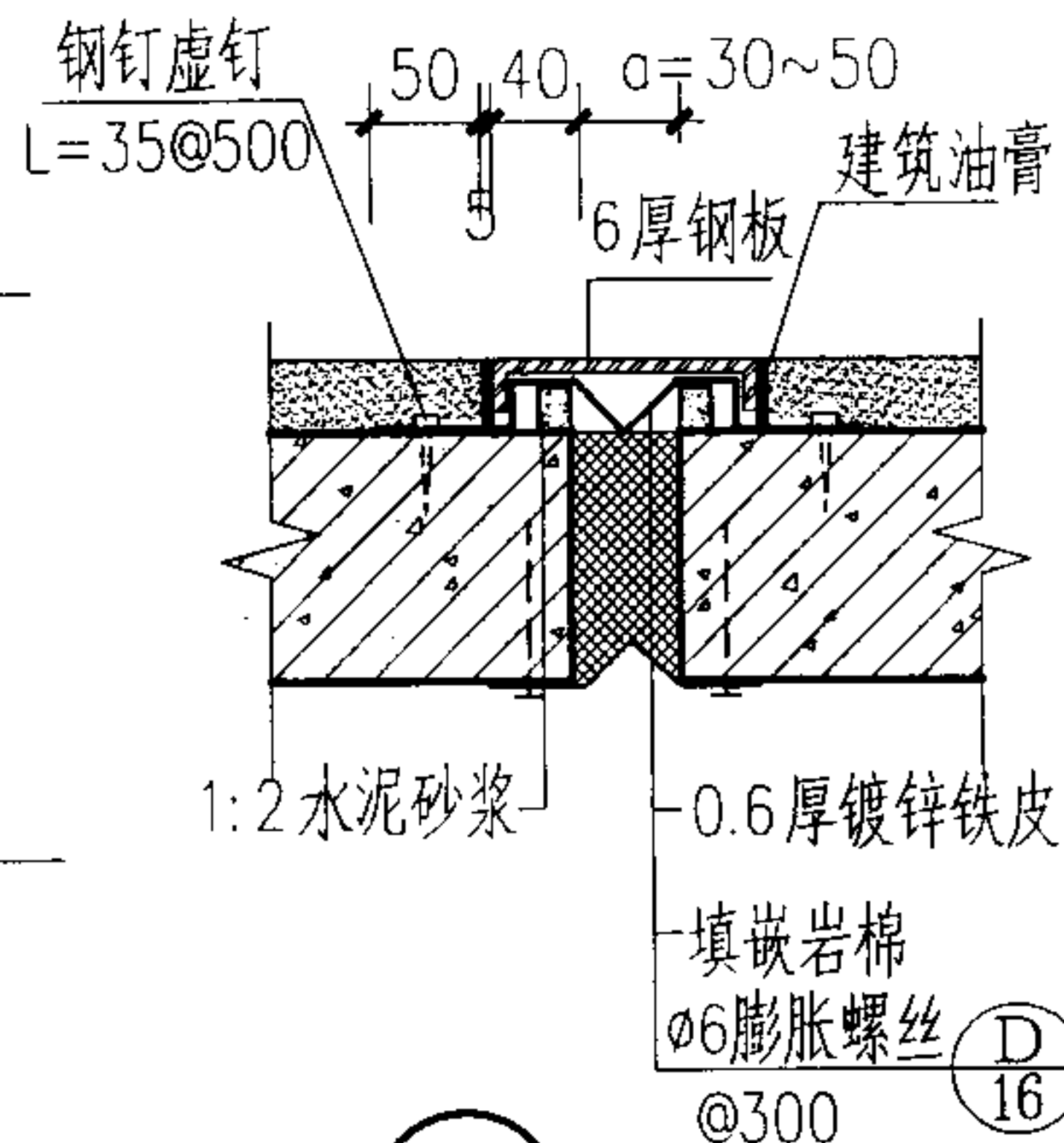
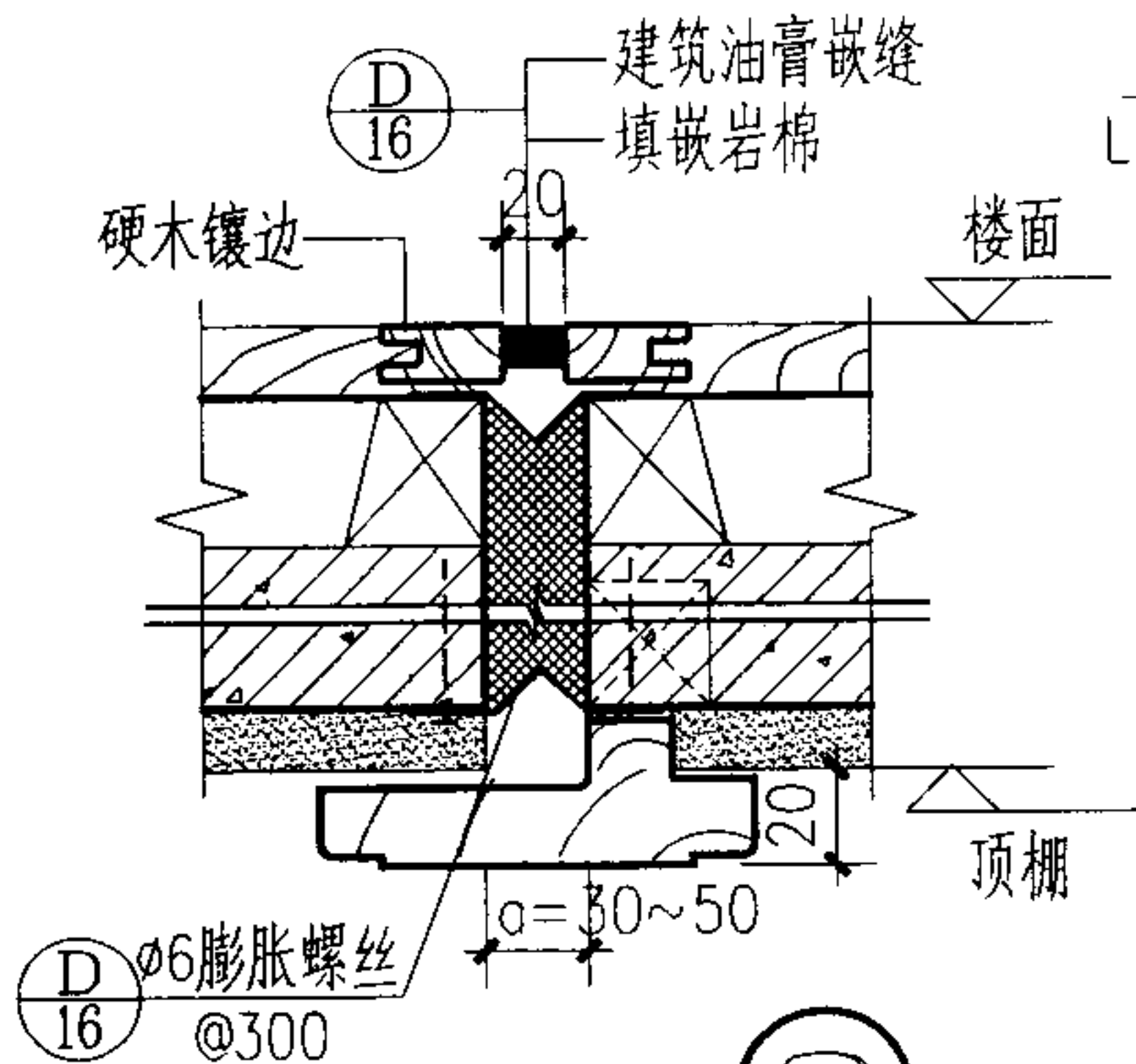
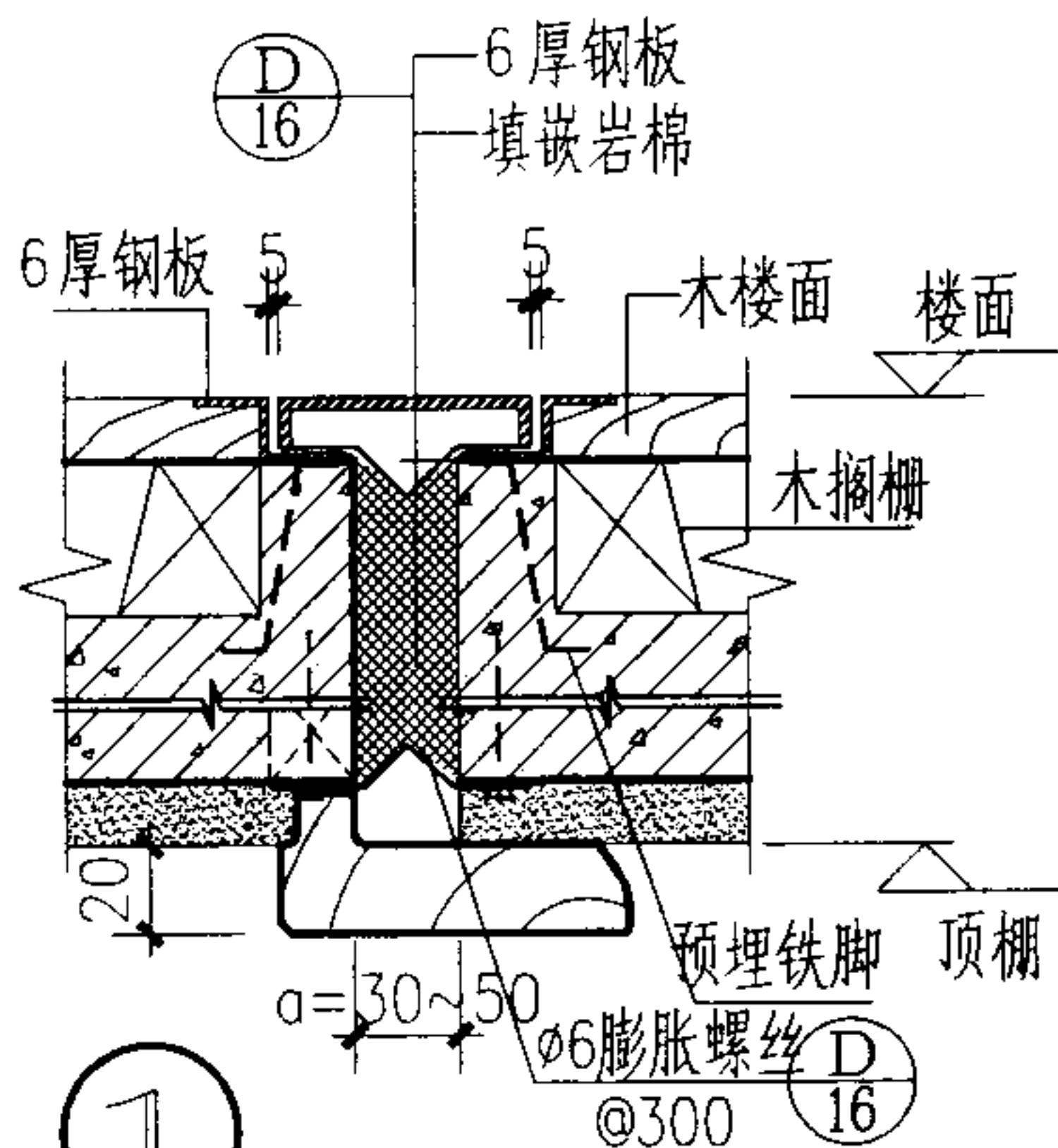
2. 铝合金圆弧形盖板和变形缝装置均为配套产品

校	对
设	计
制	图

楼地面变形缝（五）

图集号	皖 03J903
页 号	10

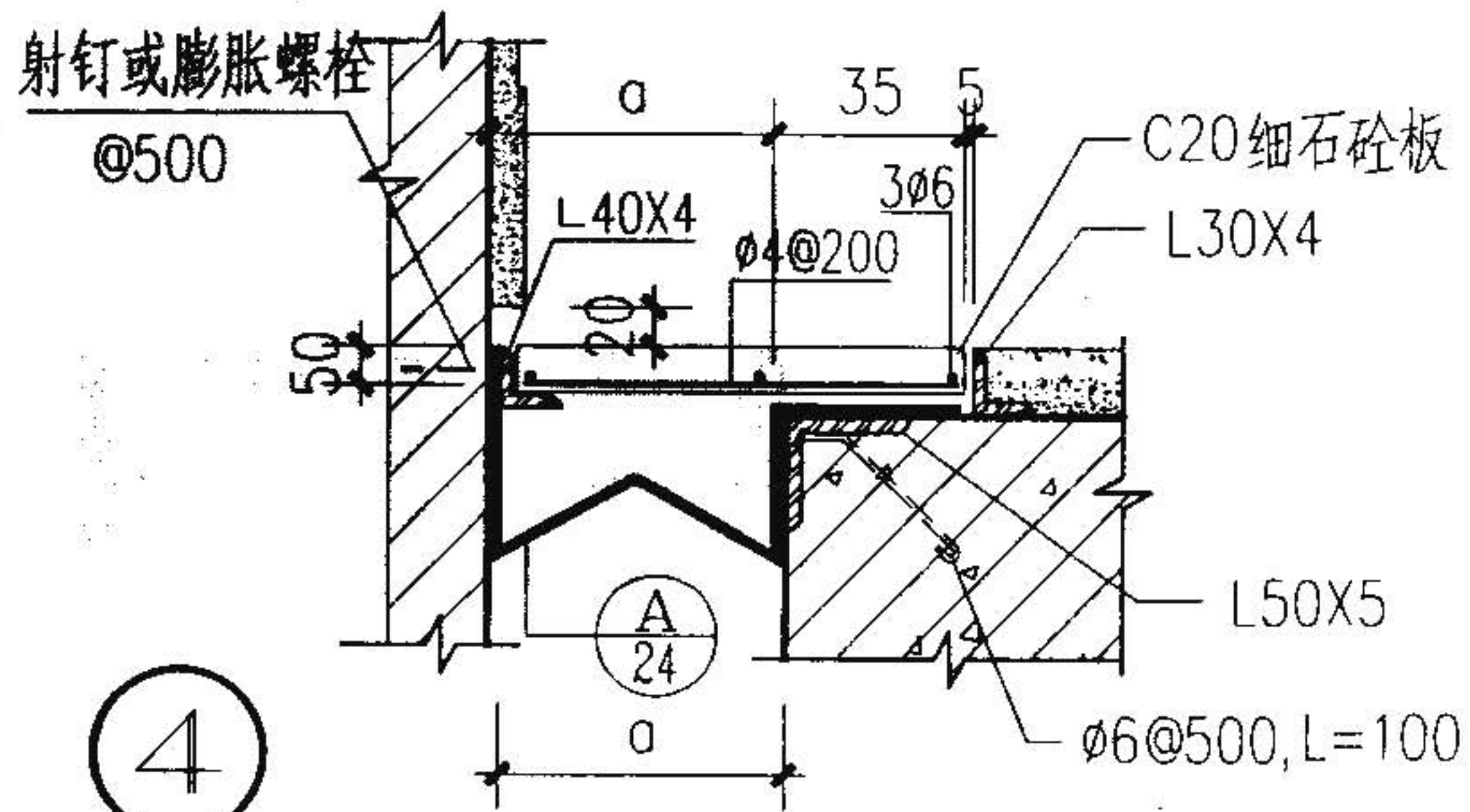
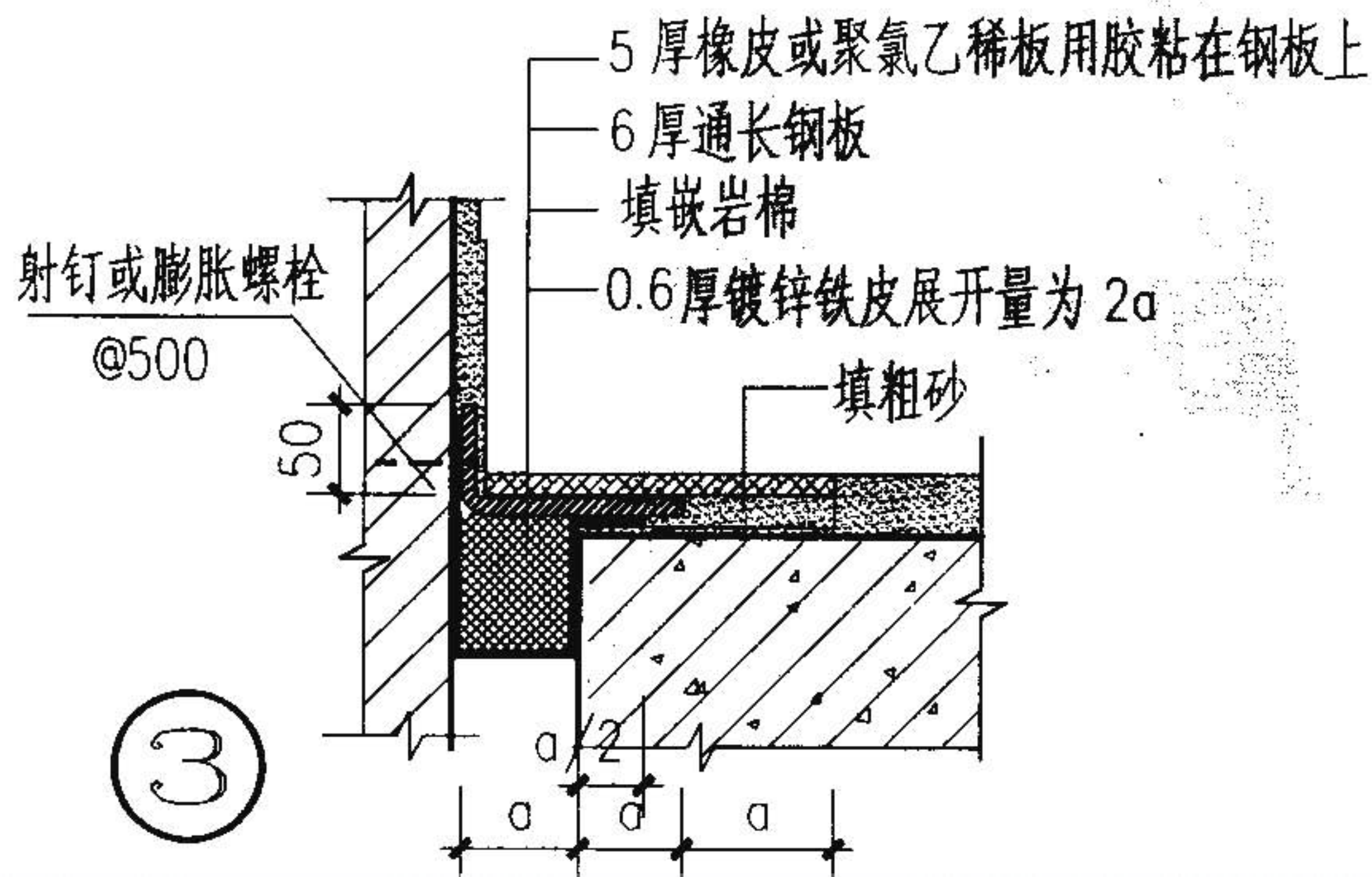
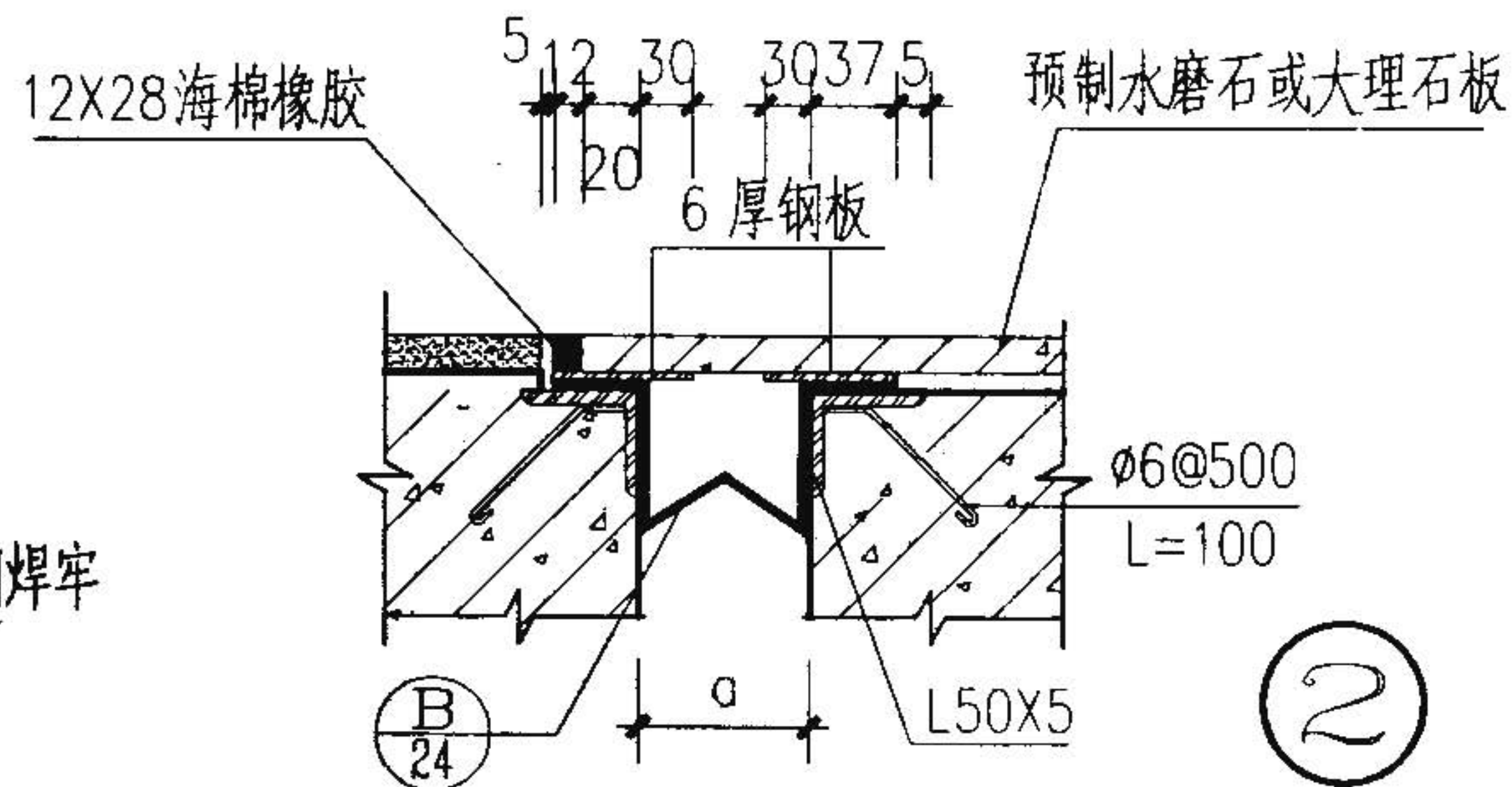
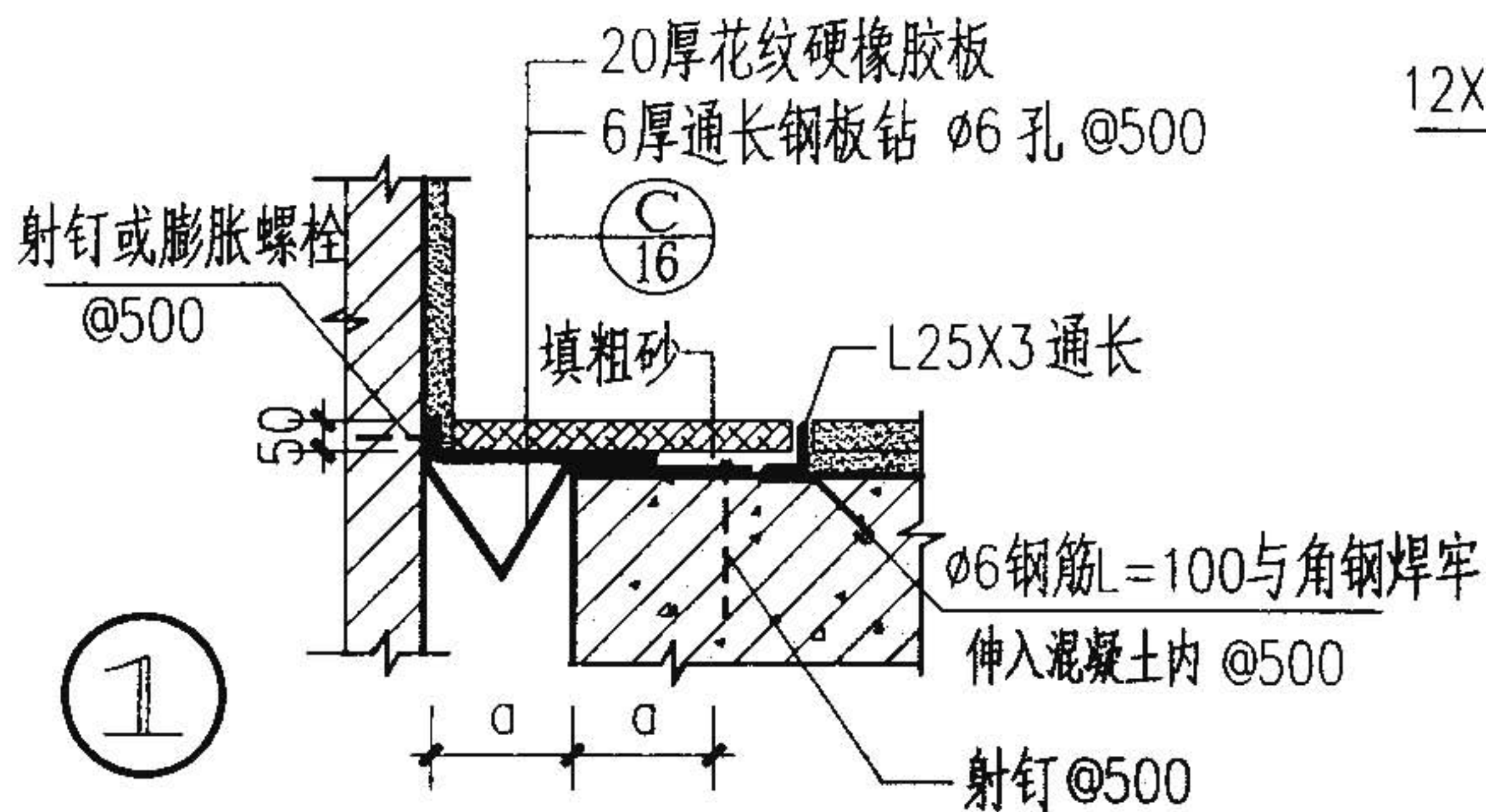




注：缝宽a见单体工程图

校	对	下
设	计	新
制	图	件

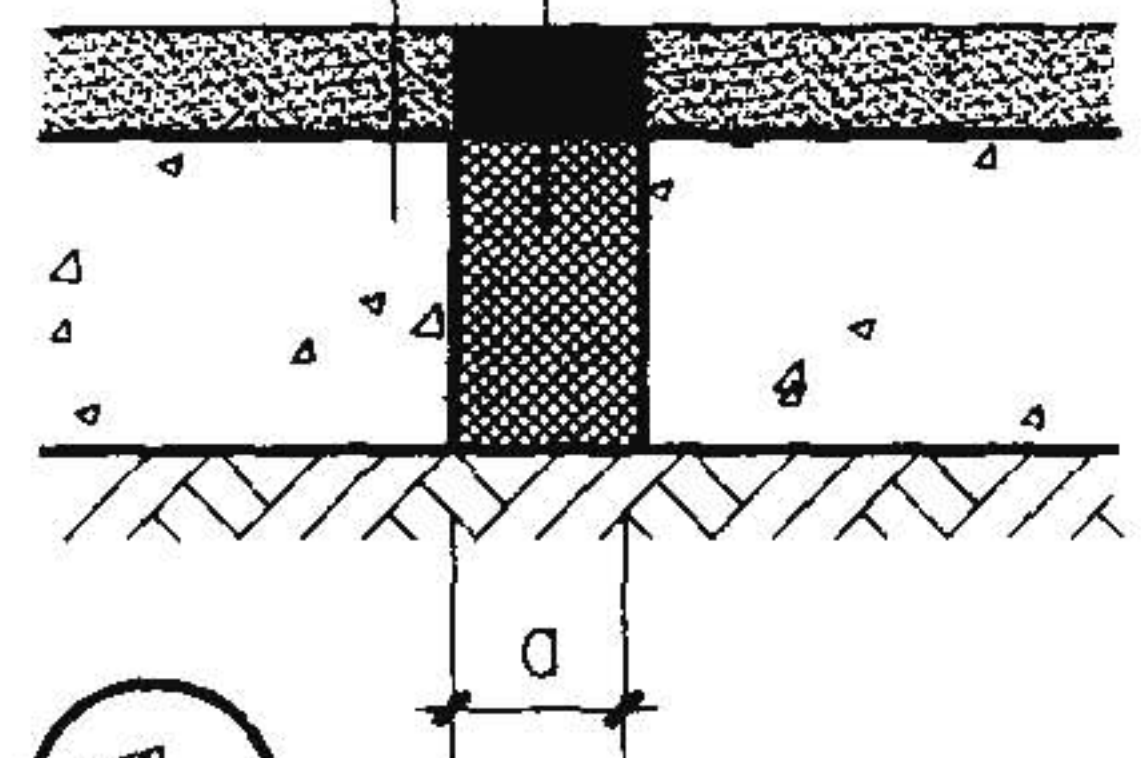




注：缝宽  $a$  见单体工程图

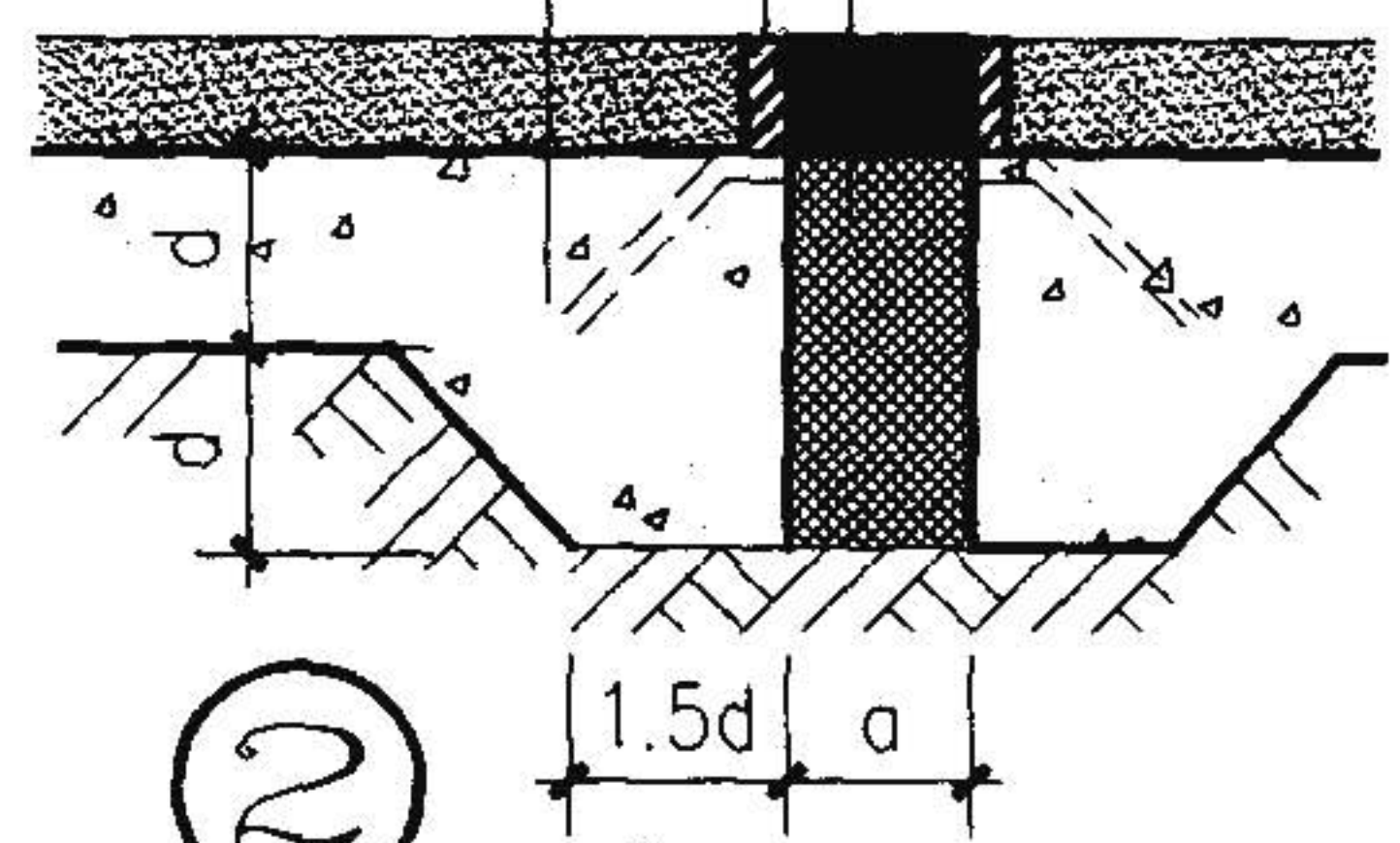


混凝土垫层  
高分子嵌缝建筑油膏  
聚苯板



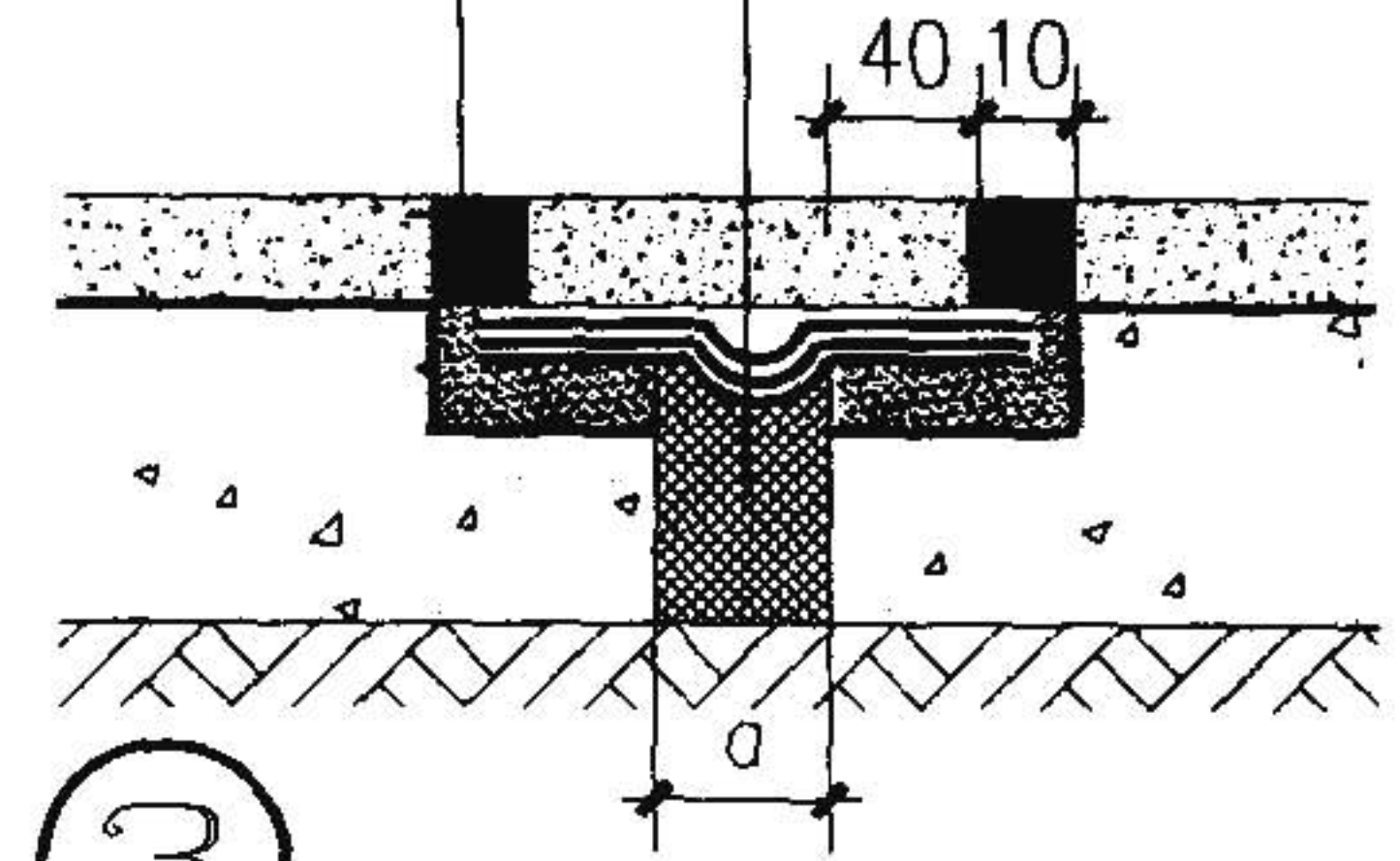
①

-40X4 通长  
缝两侧垫层加厚  
高分子嵌缝建筑油膏  
聚苯板



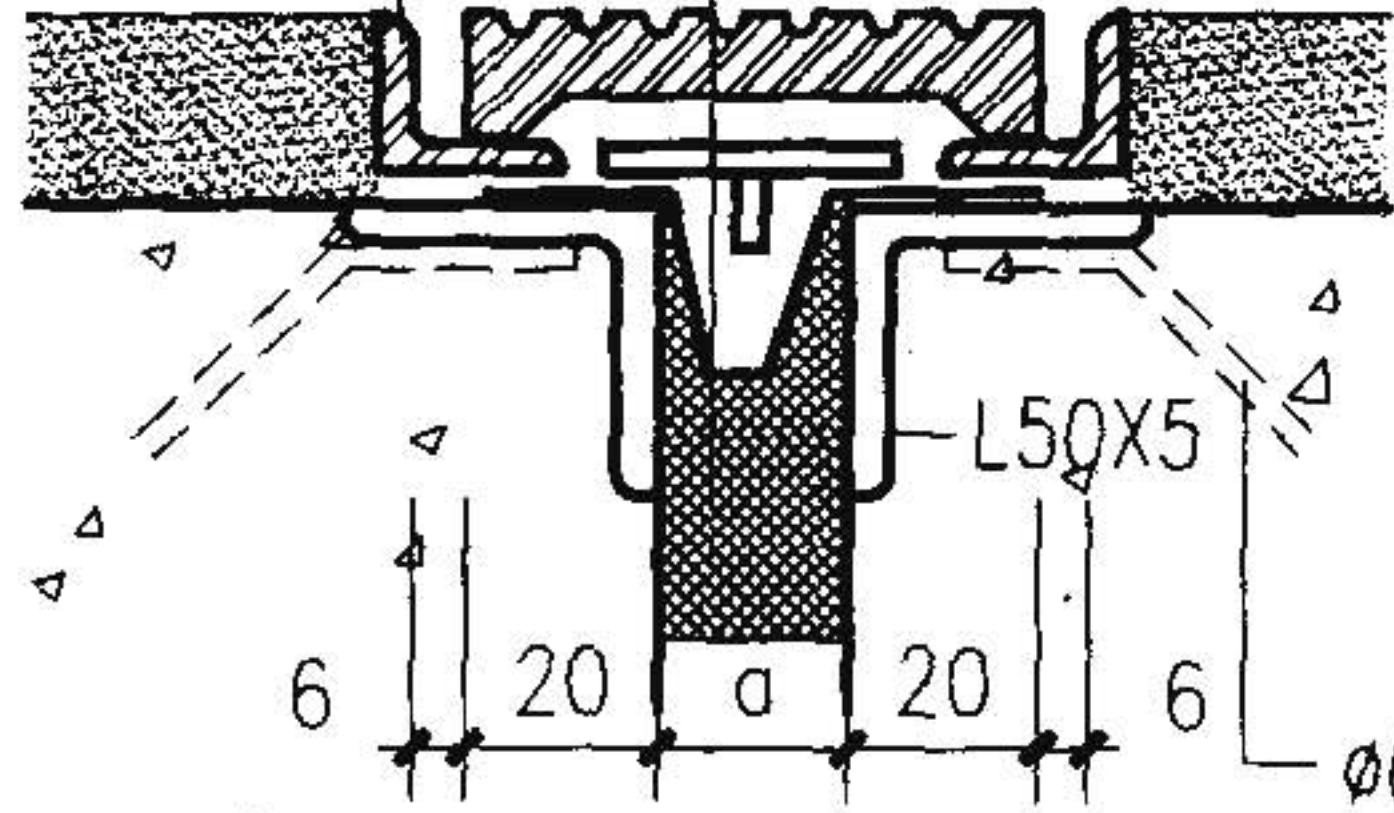
②

水泥砂浆  
高分子嵌缝建筑油膏  
预制水磨石块  
干铺油毡三层  
聚苯板



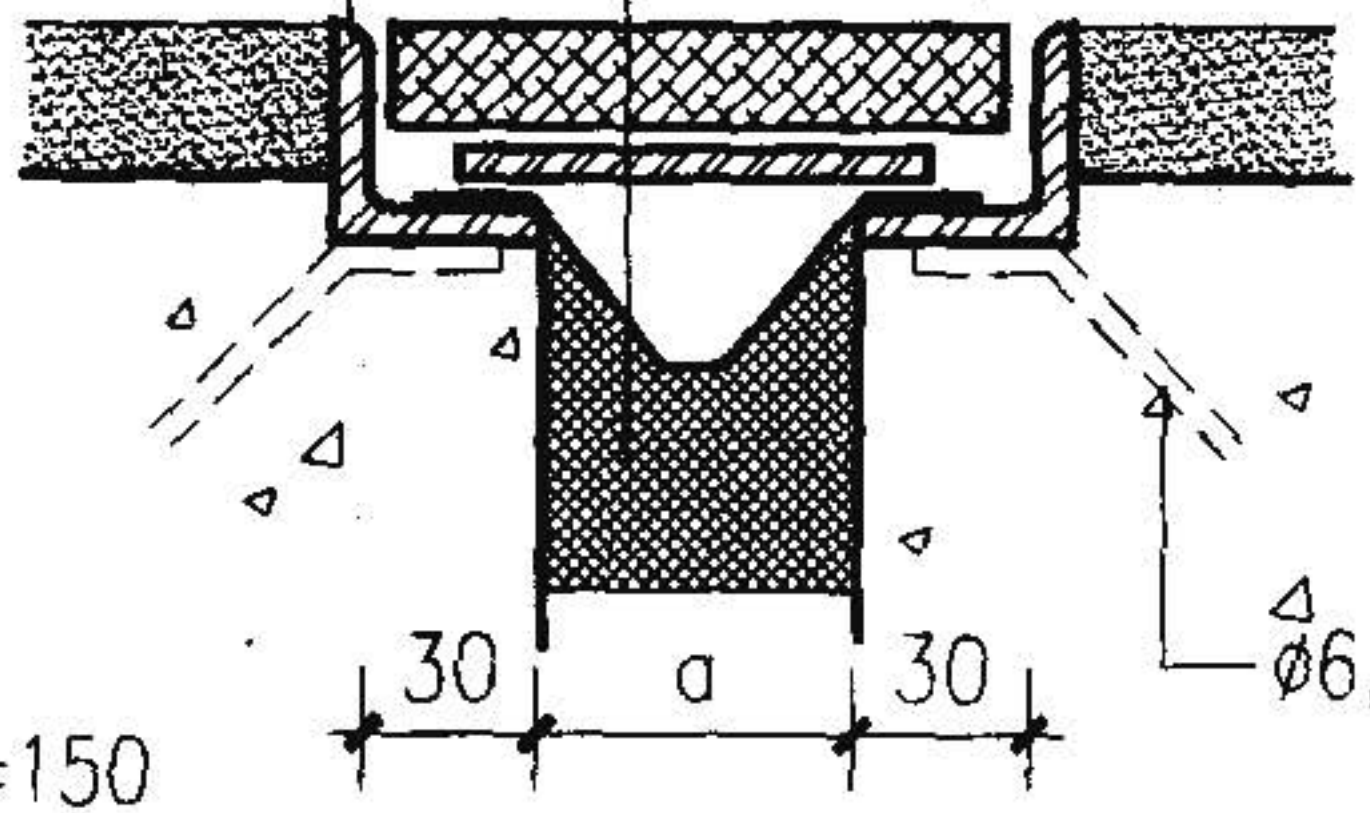
③

L35X5  
涂满沥青  
铸铝盖板刨光起线  
5厚钢板  
E  
24  
填嵌岩棉



④

花纹硬橡胶板  
5厚钢板  
E  
24  
填嵌岩棉  
L30X4



⑤

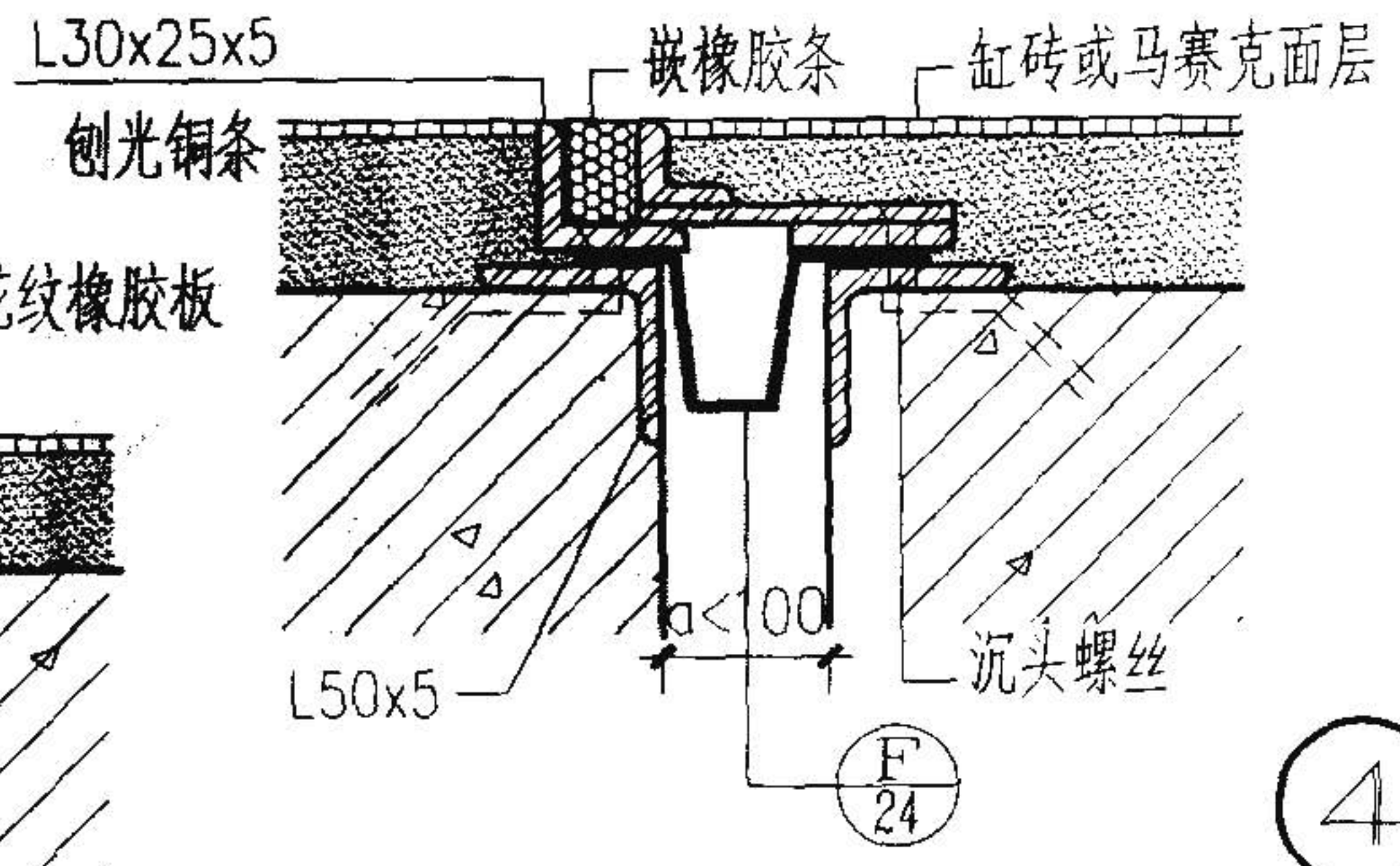
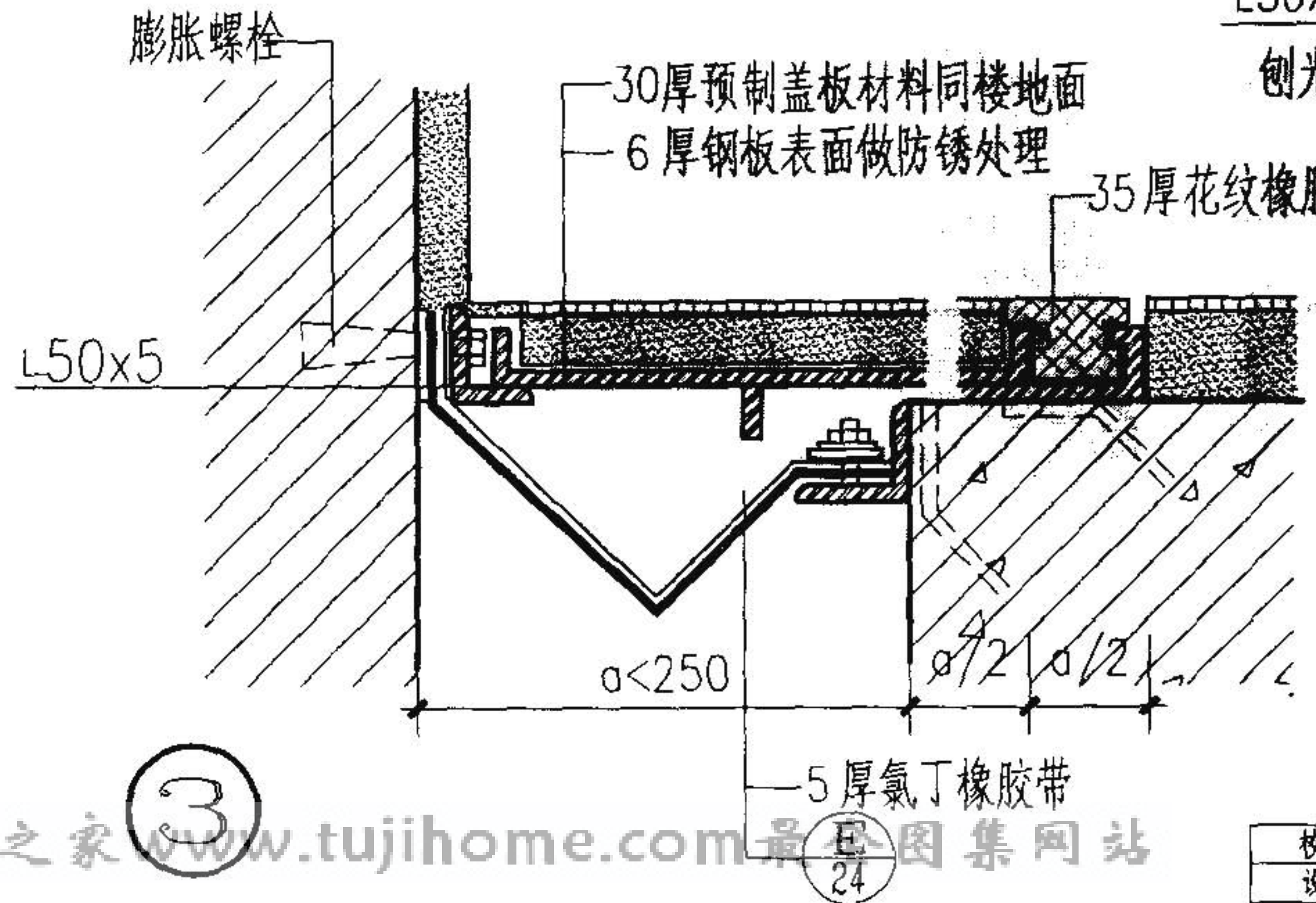
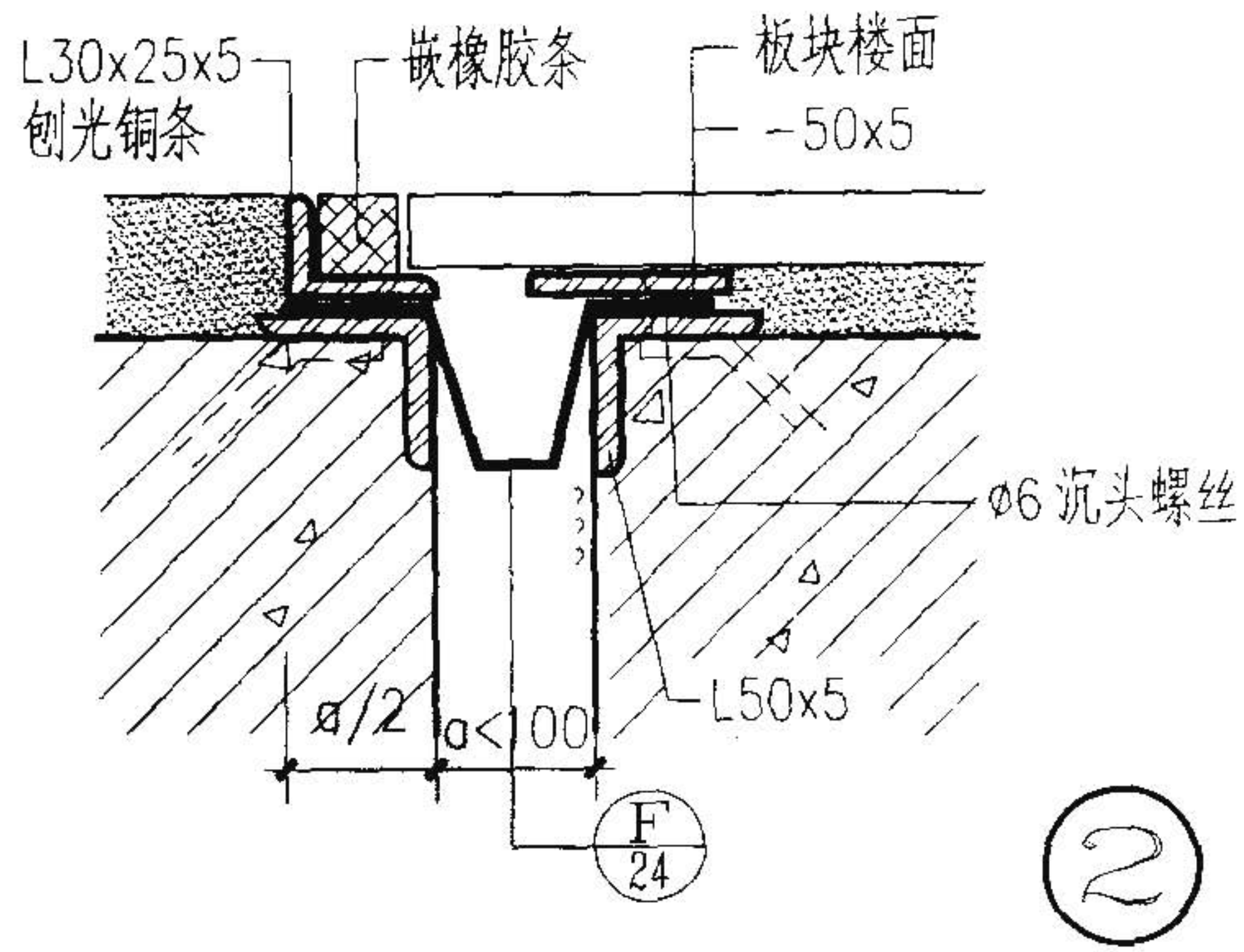
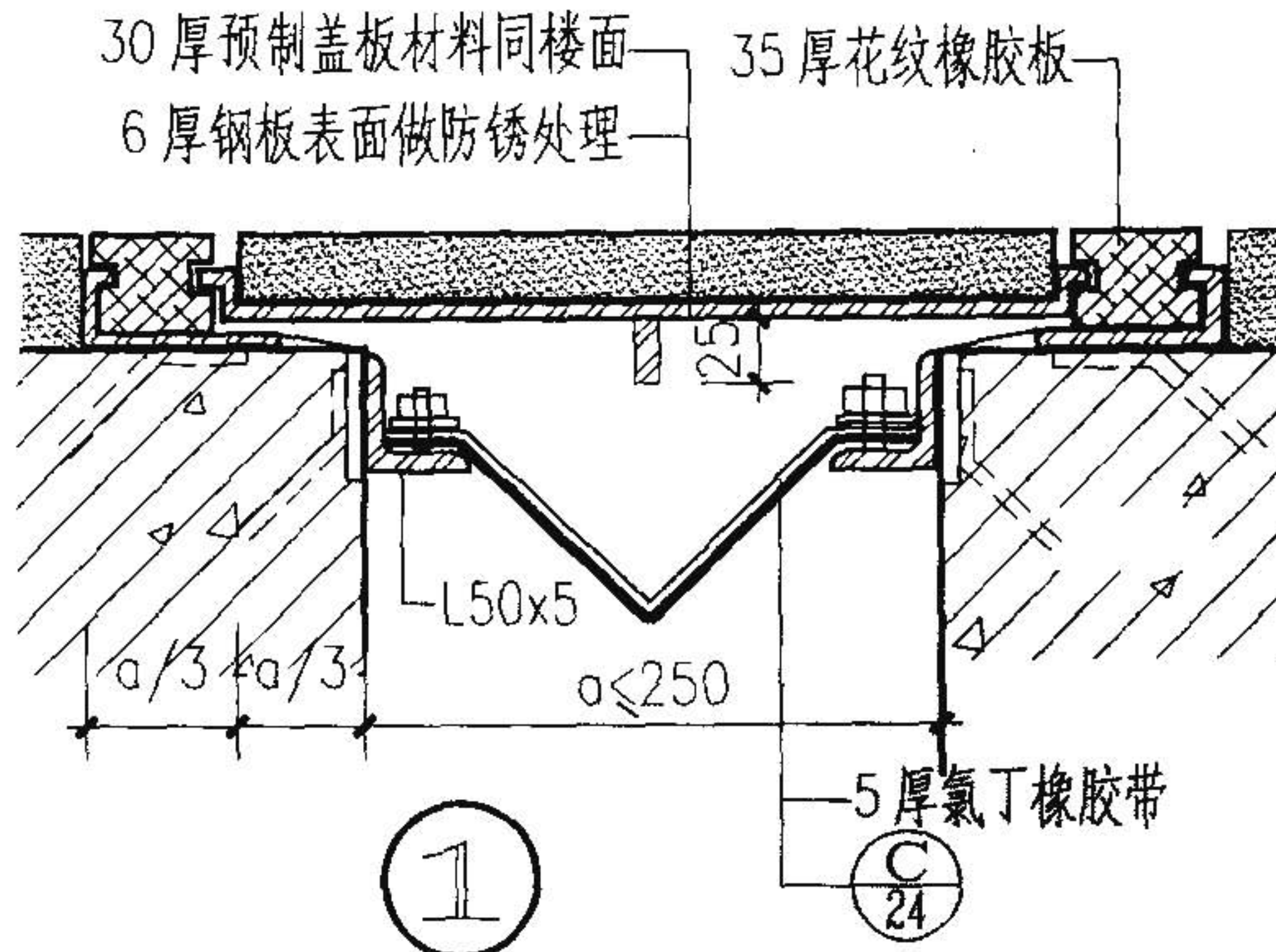
5厚钢板  
D  
16  
填嵌岩棉  
橡胶垫  
L30X4  
ø6, L=150



⑥

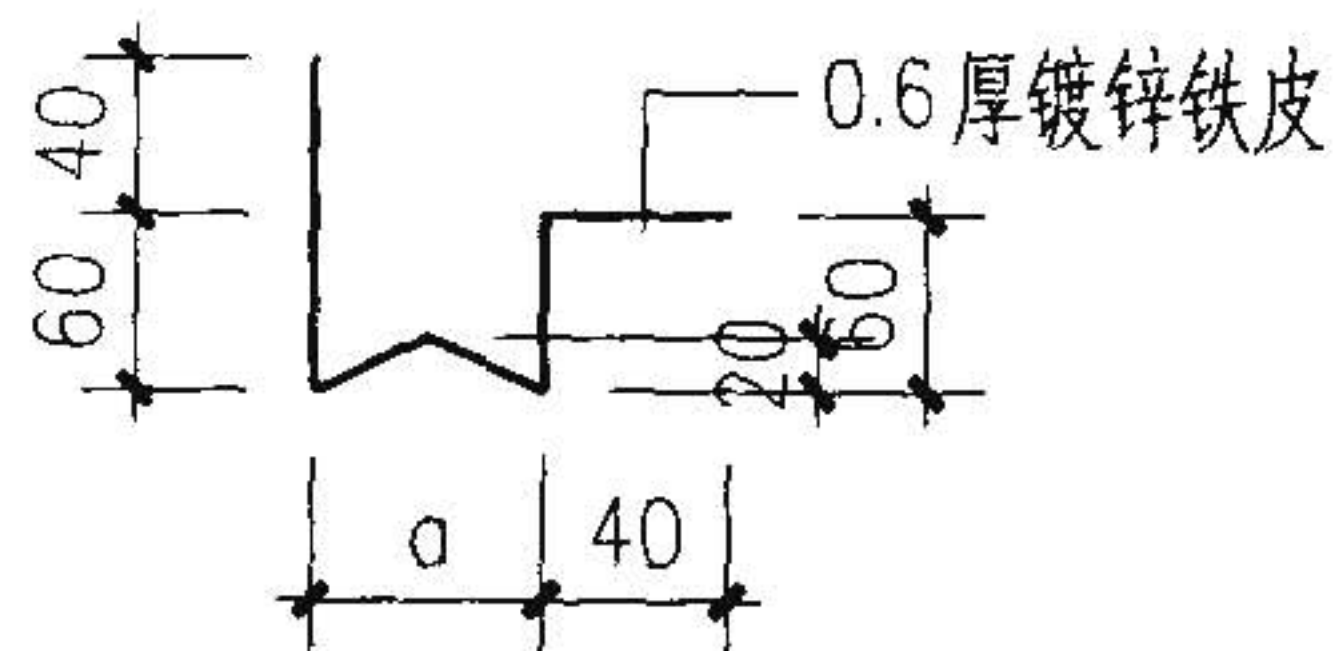
注：缝宽a 见单体工程图



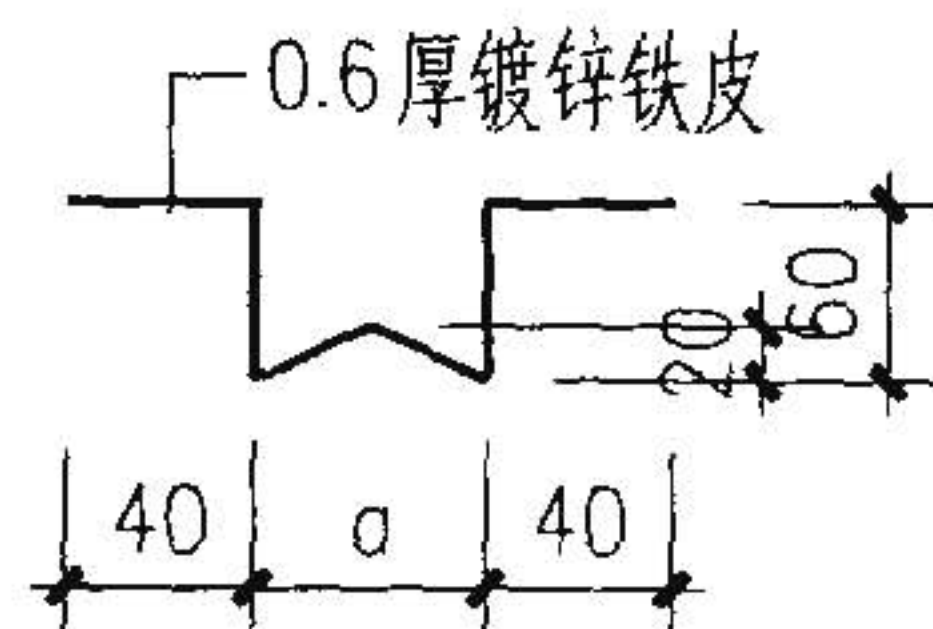


注：缝宽a 见单体工程图

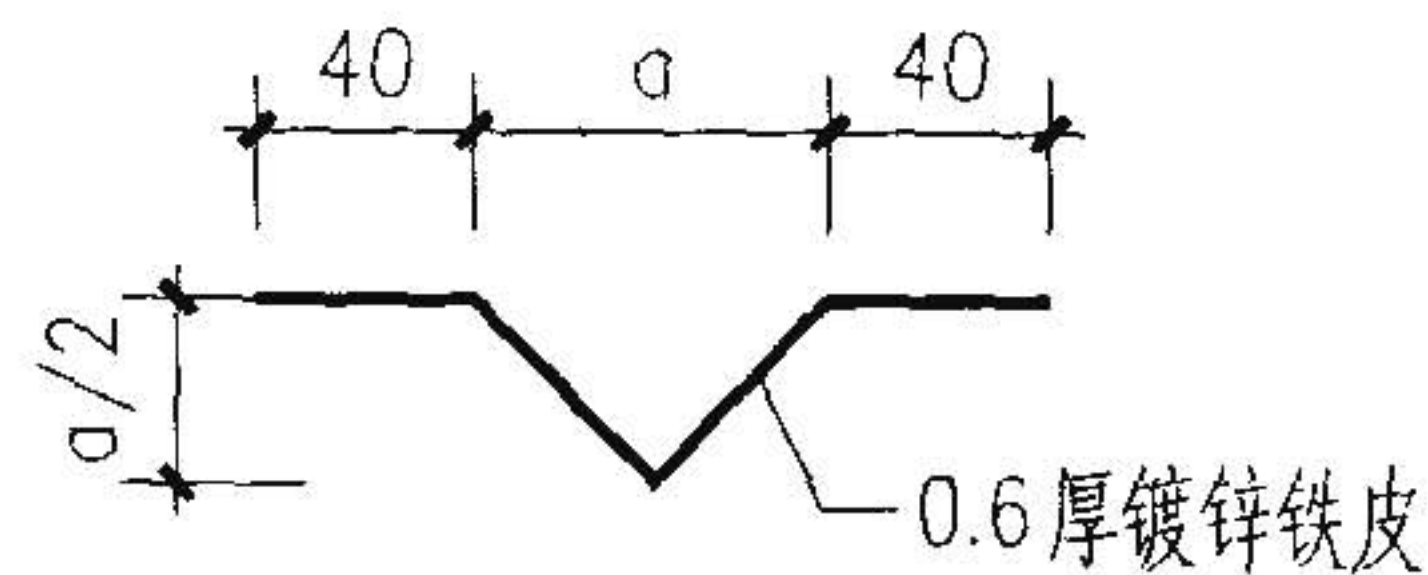




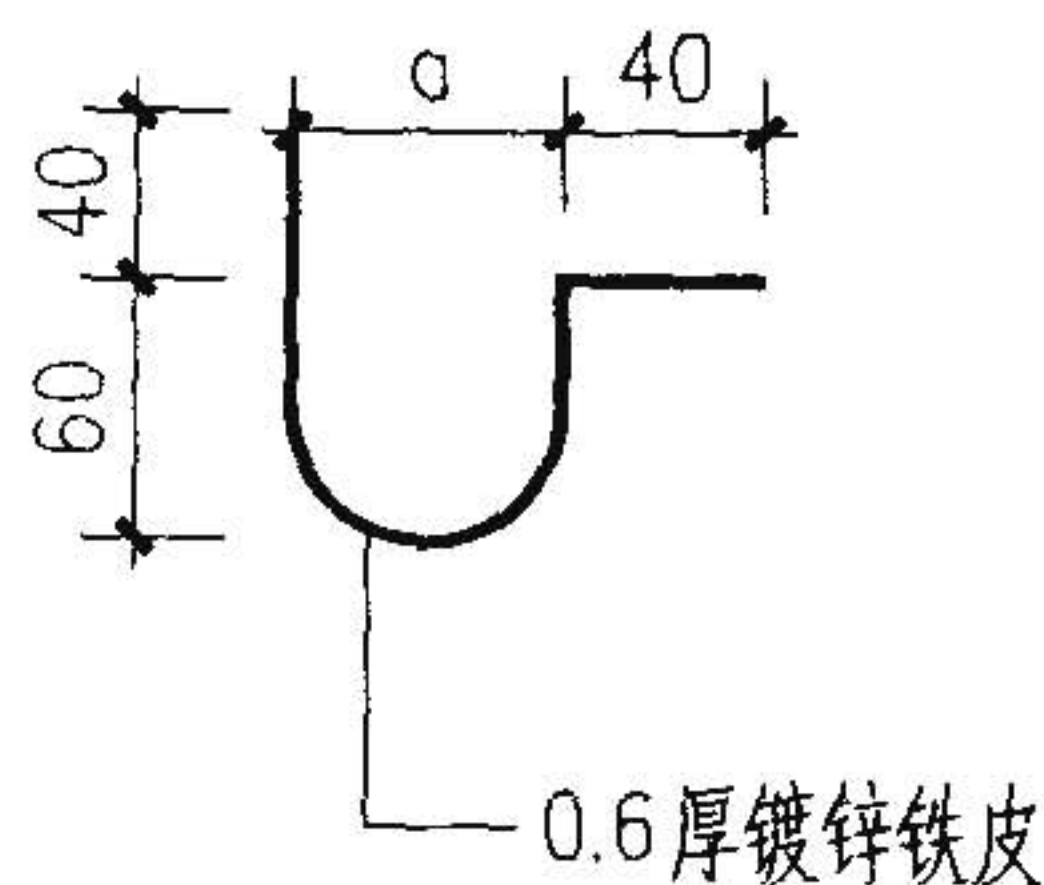
(A)



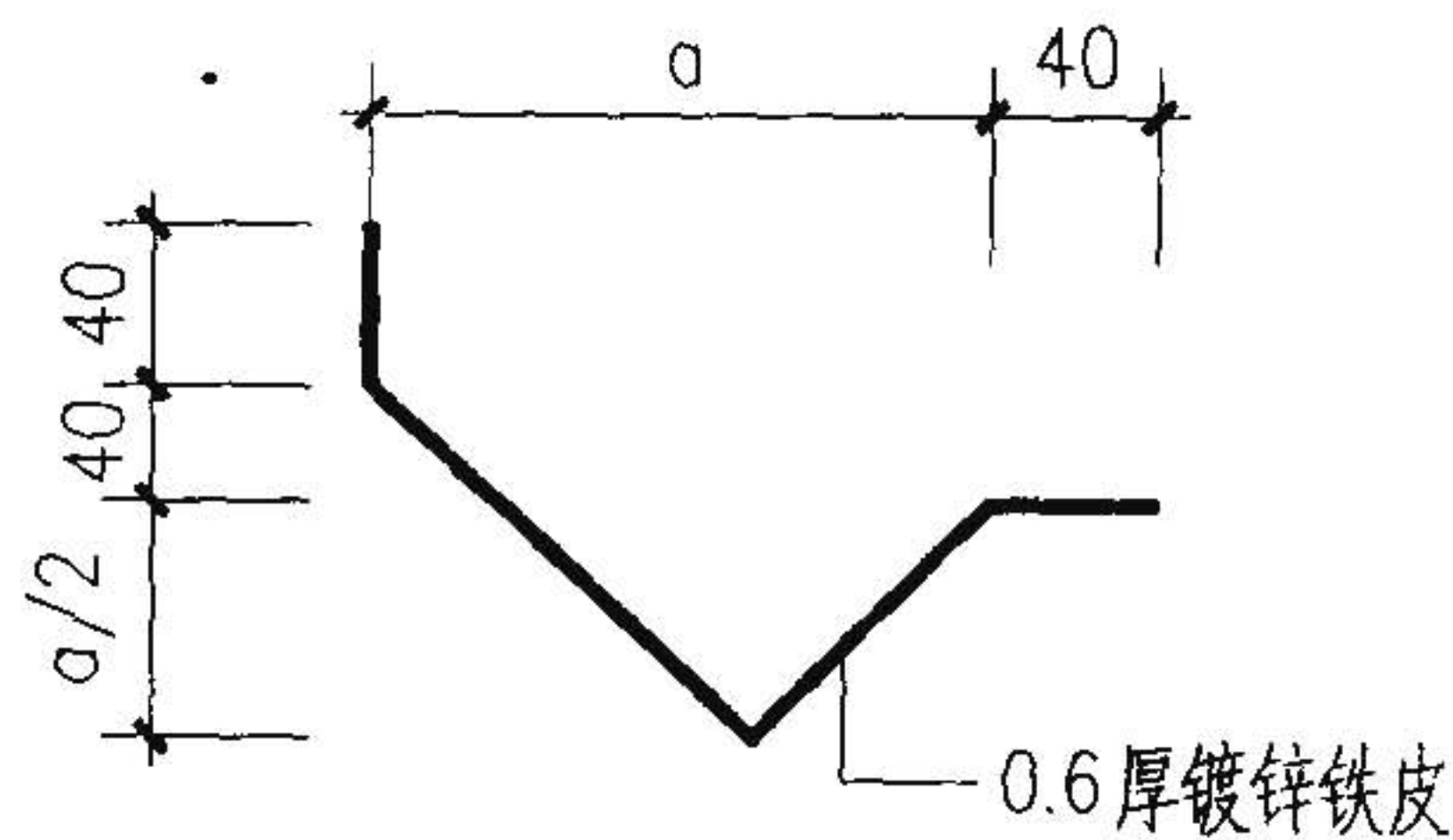
(B)



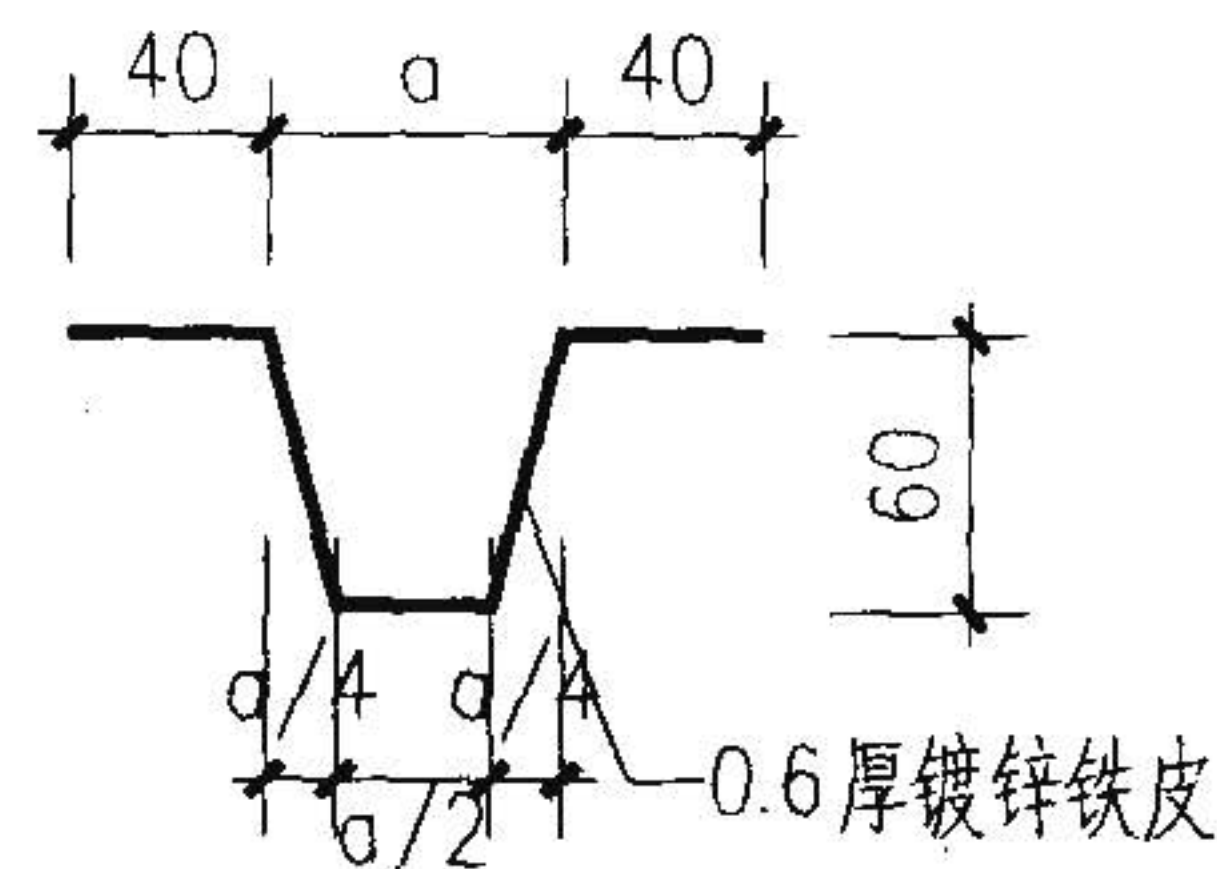
(C)



(D)



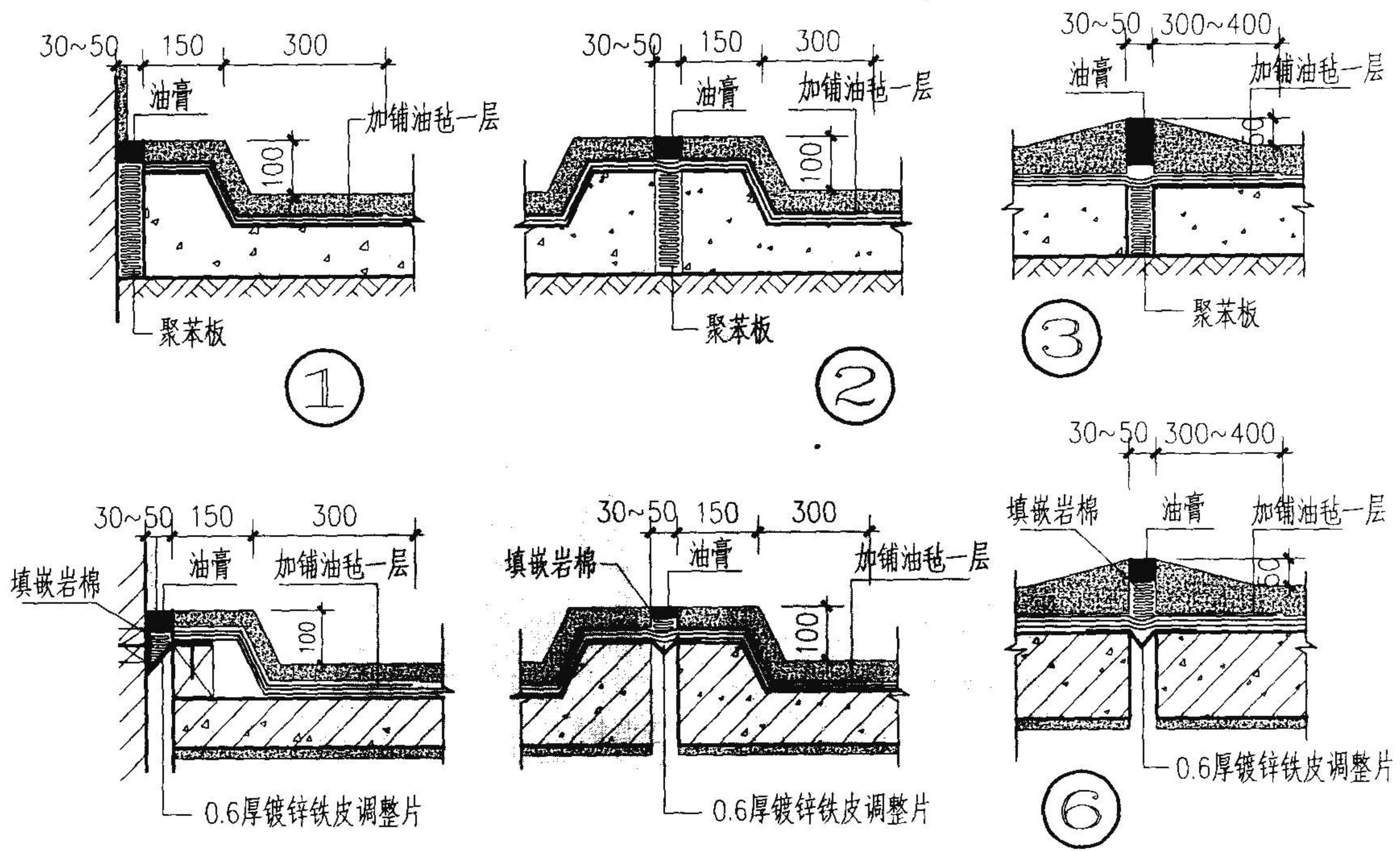
(E)



(F)

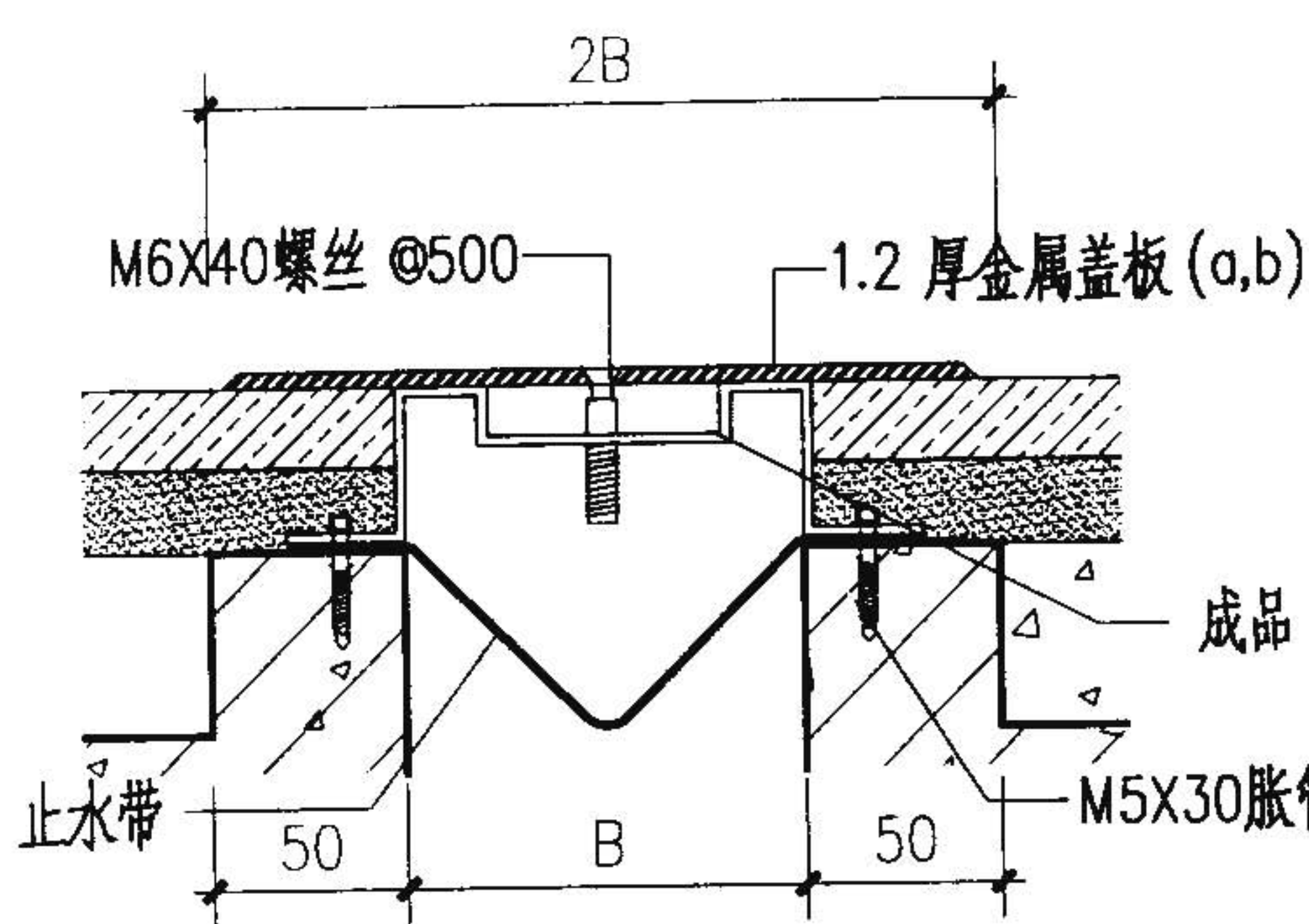
注：缝宽 $a$ 见单体工程图



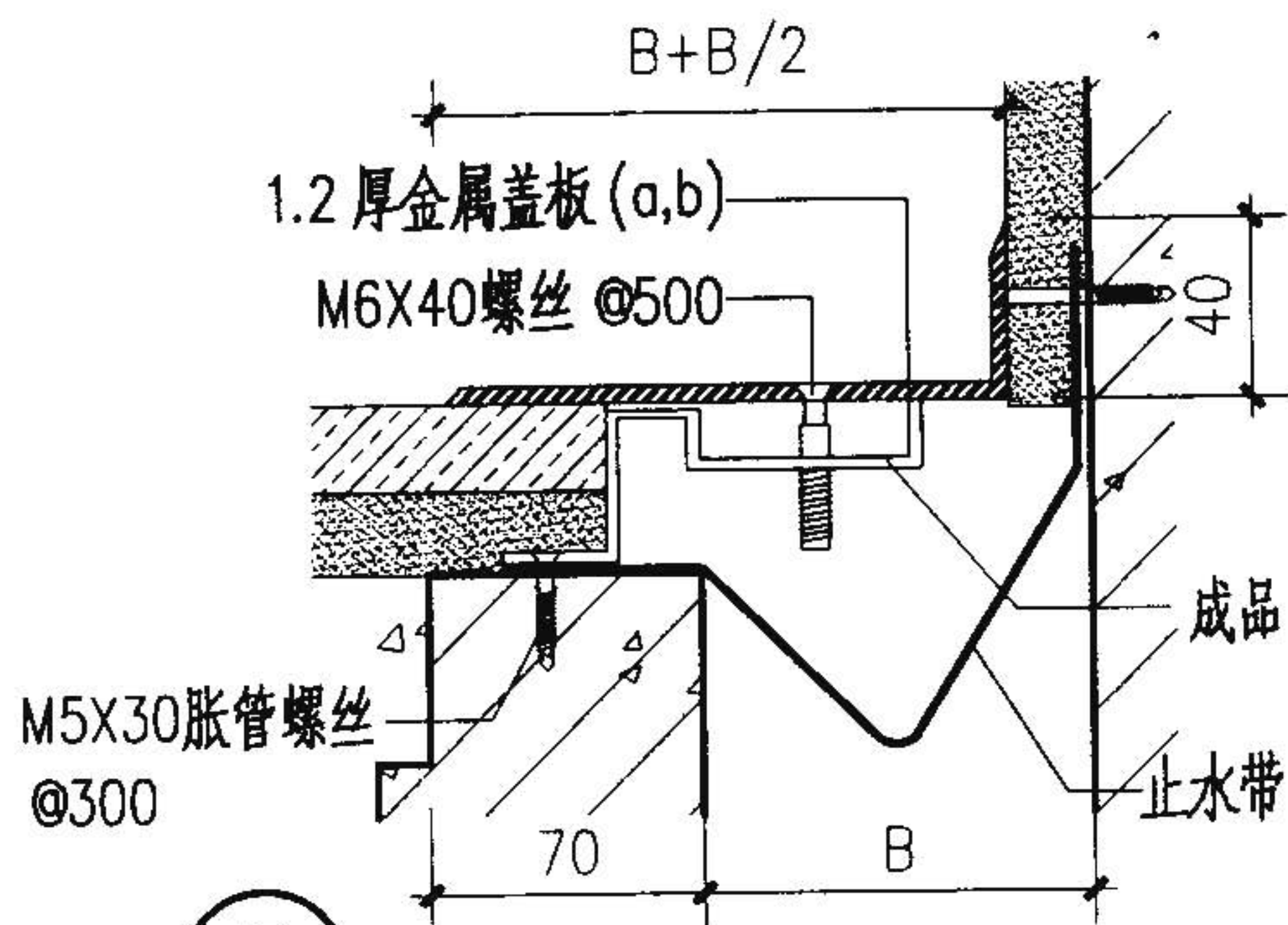


注：1.本变形缝做法仅适用于设有防水层的楼地面。  
2.缝宽a详见单体工程图。



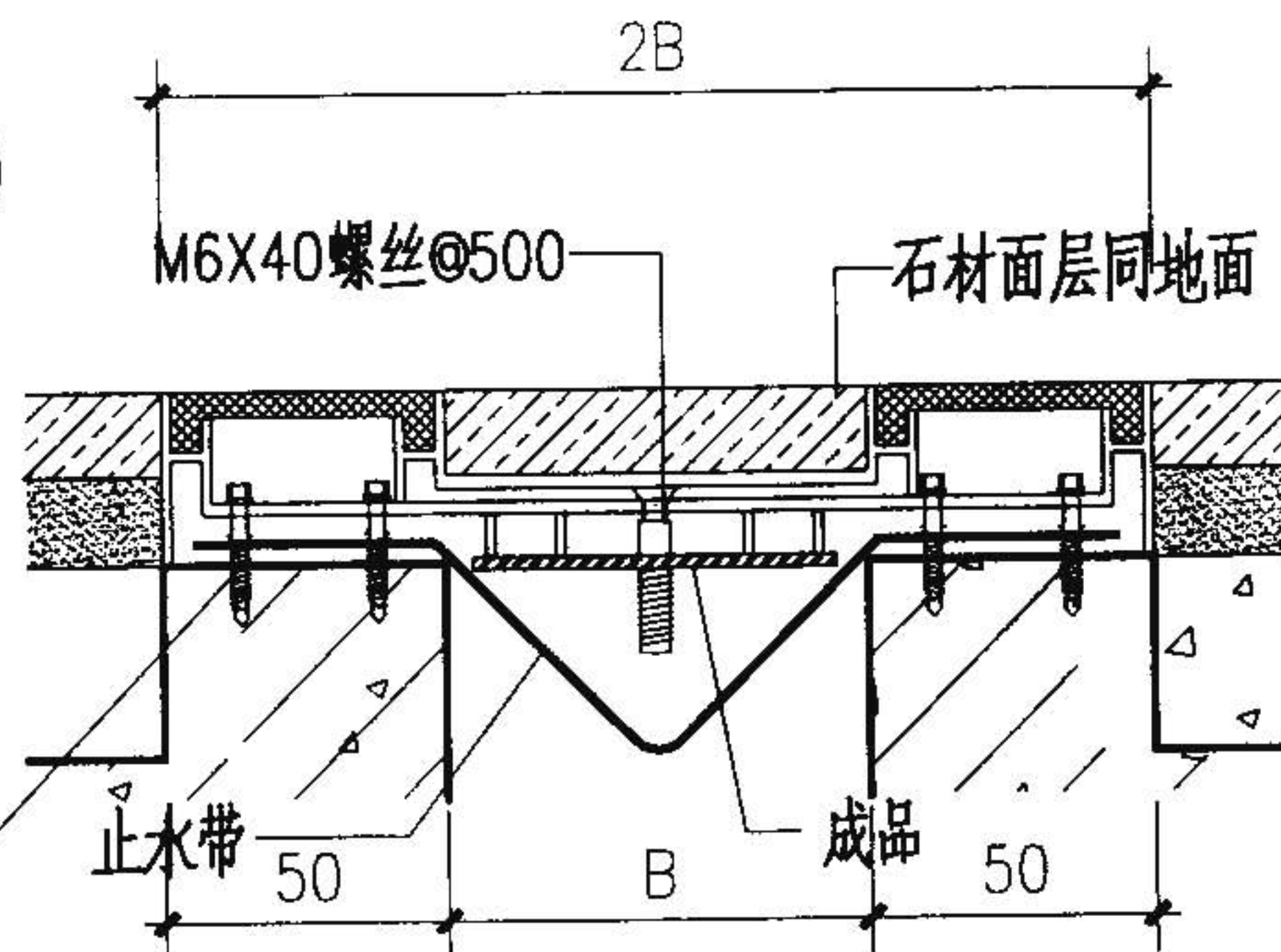


①

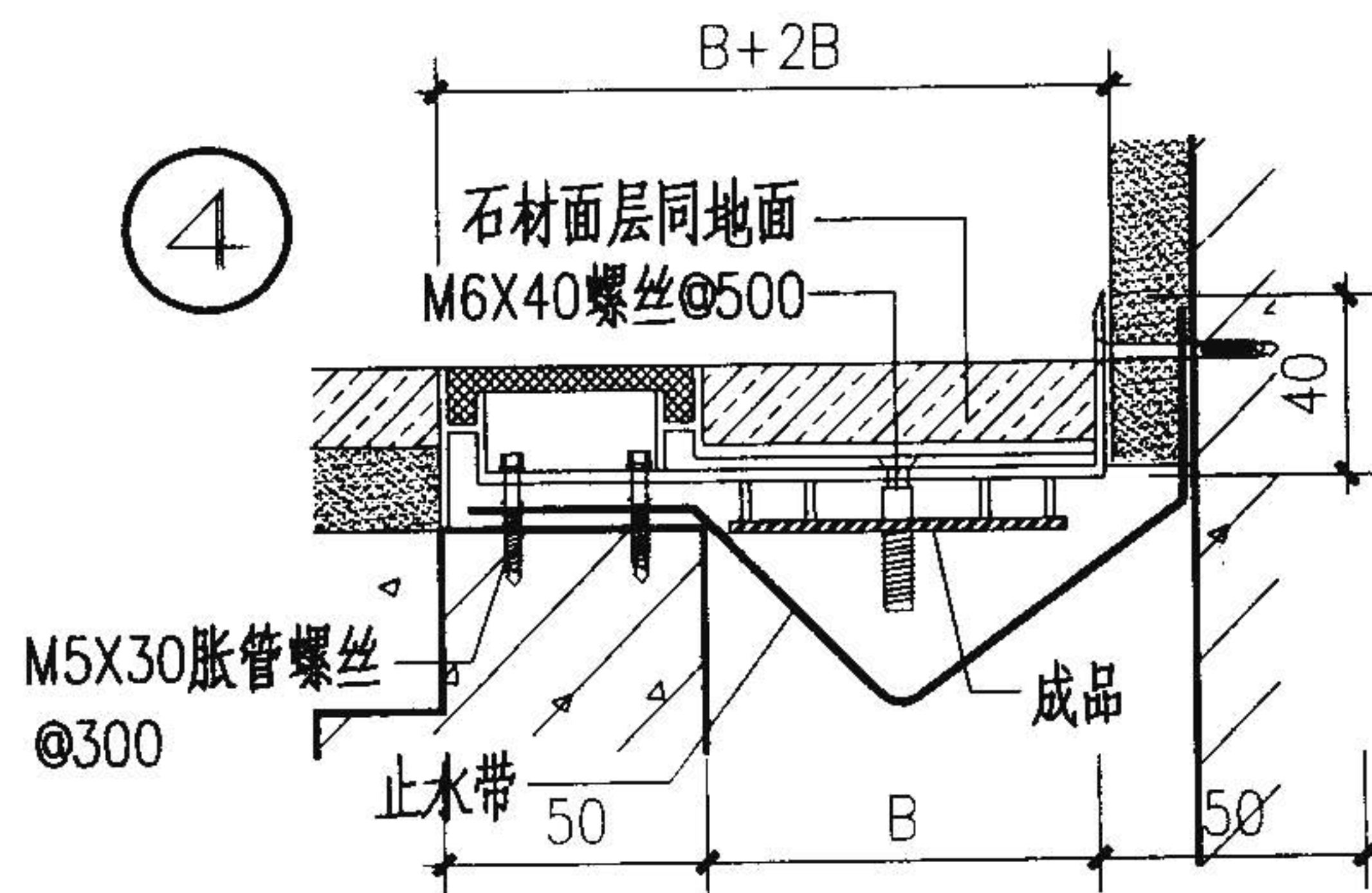


②

③

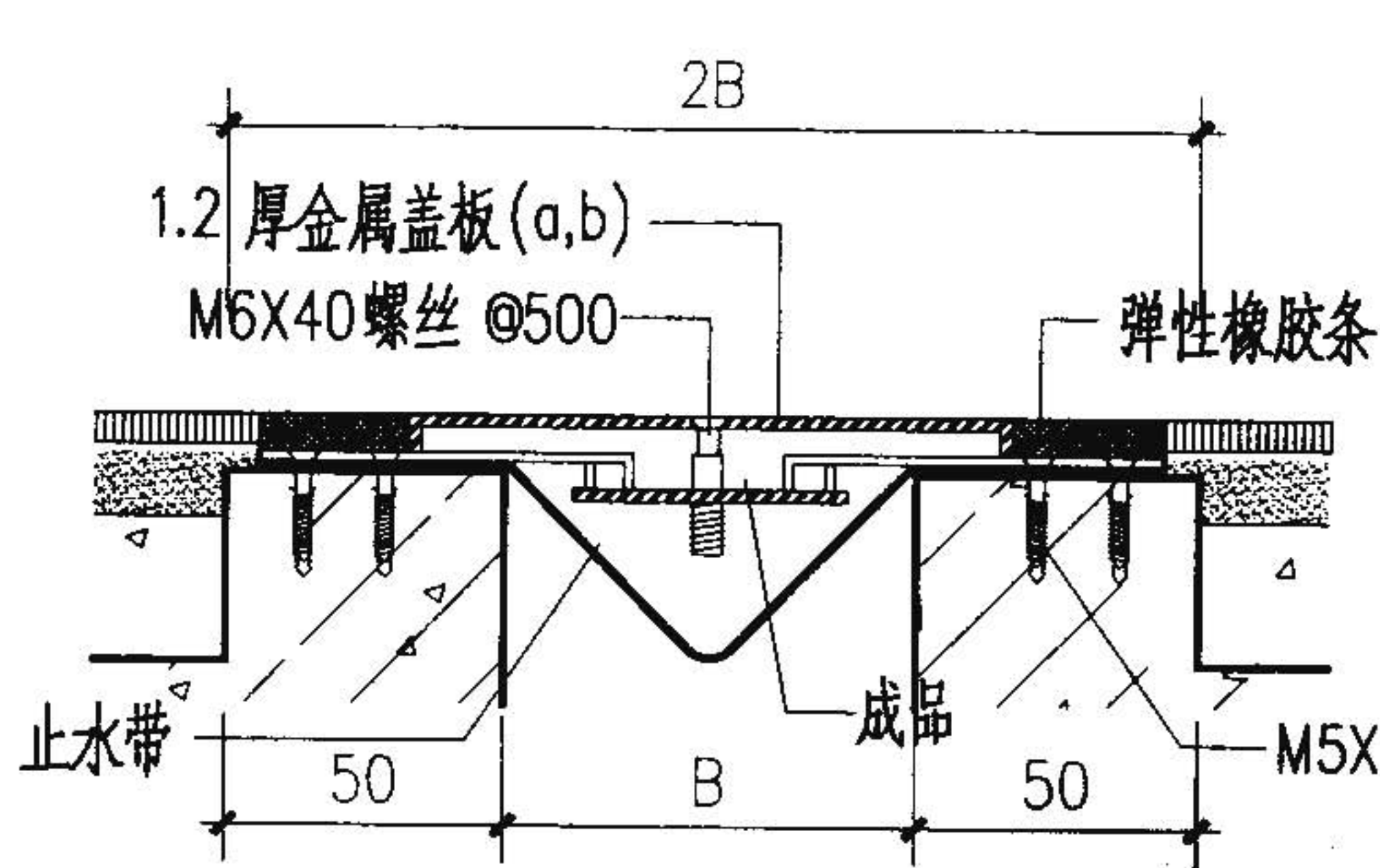


④

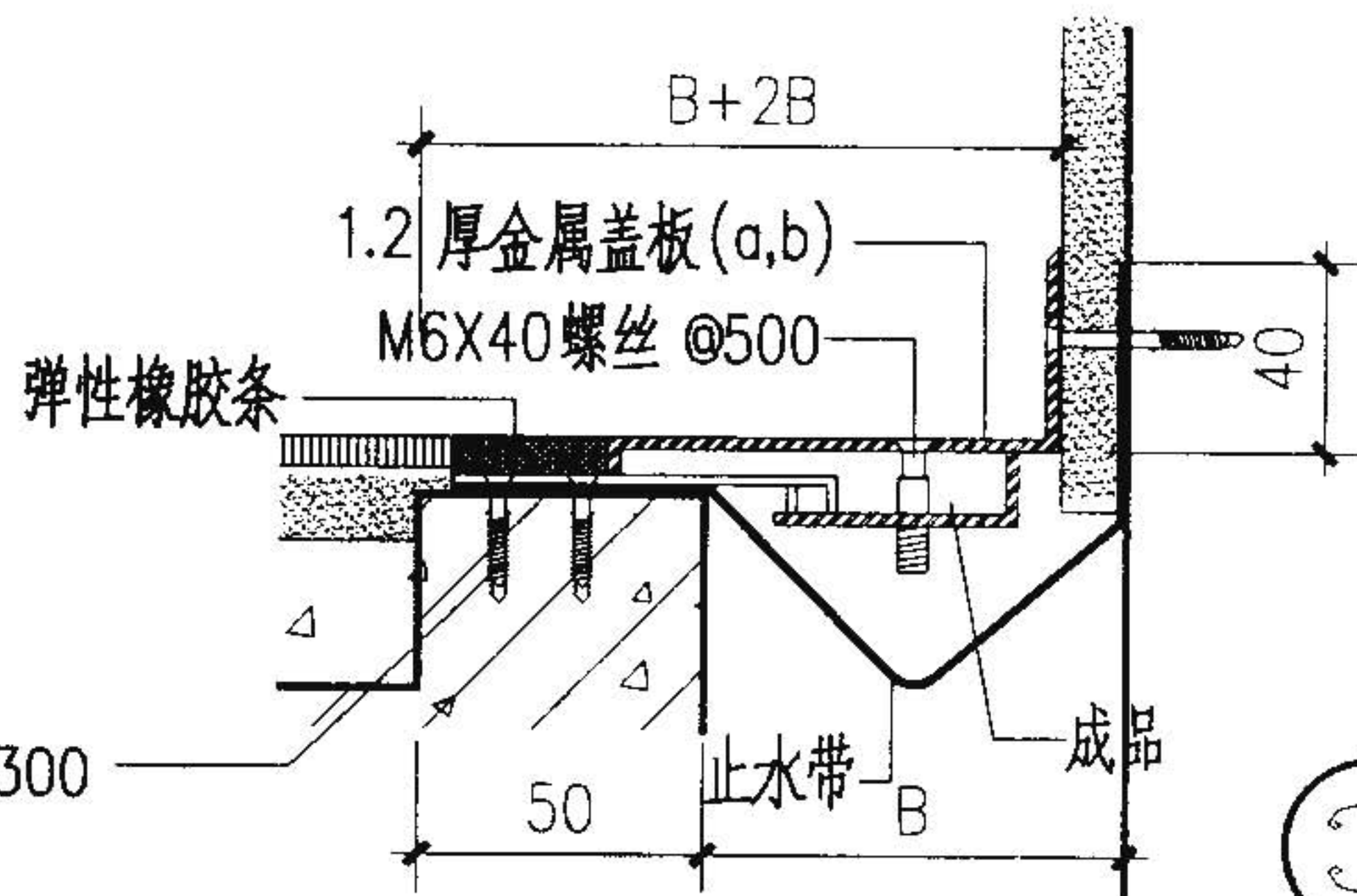


注：1. 缝宽B详见单体工程图 2. a为铝合金, b为不锈钢

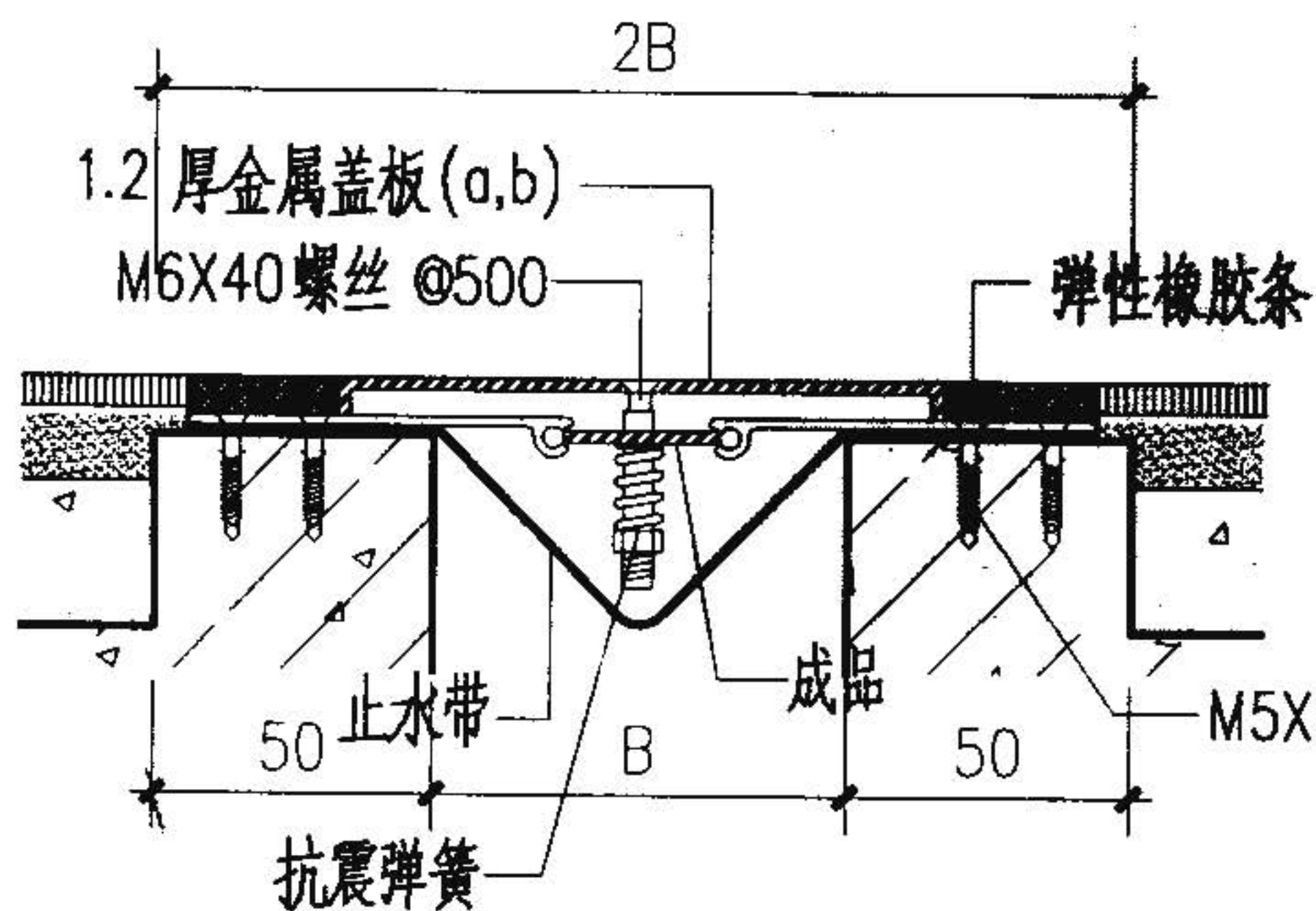




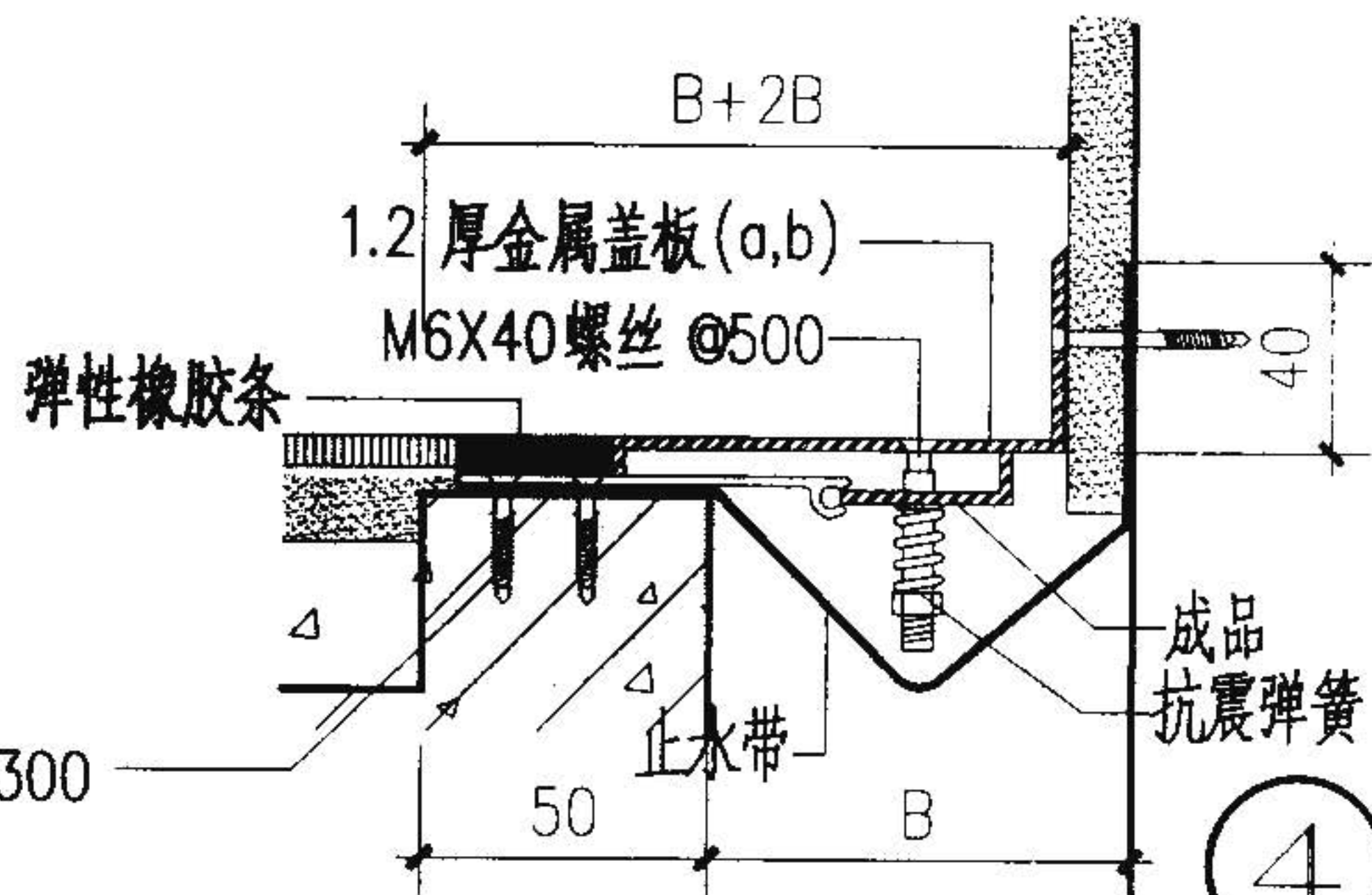
①



③



②



④

注：1. 缝宽B详见单体工程图 2. a为铝合金, b为不锈钢

校	对	丁
设	计	部
制	图	作