

山东省建筑标准设计

防火门

DBJT14-2

图集号:L92J606

防火门

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目 录



目 录	1
说 明	2~4
不镶玻璃防火门立面	5~10
镶横向玻璃防火门立面	11~15
镶竖向玻璃防火门立面	16~20
镶大片玻璃防火门立面	21~25
实芯木质装饰防火门典型立面	26~28
实芯木质装饰防火门节点	29

木质防火门节点安装详图	30
木质防火门节点详图	31
钢质防火门节点安装详图(一)	32
钢质防火门节点安装详图(二)	33
钢质防火门节点详图	34
钢木防火门节点详图	35
防火门产品介绍	36

说明

一. 适用范围

本图集适用于一般及高层民用建筑和防火条件类同的其它建筑物。

二. 设计依据

1. GB14101-93 《木质防火门通用技术条件》
2. GB12955-91 《钢质防火门通用技术条件》
3. GB7633-87 《门和卷帘的耐火试验方法》
4. GB5464-85 《建筑材料不燃性试验方法》
5. GBJ16-87 《建筑设计防火规范》
6. GB50045-95 《高层民用建筑设计防火规范》
7. GB5824-86 《建筑门窗洞口尺寸系列》
8. GB12513-90 《镶玻璃构件耐火试验方法》

三. 技术要求

1. 防火门耐火极限及等级要求:

甲级防火门耐火极限 1.2H

乙级防火门耐火极限 0.9H

丙级防火门耐火极限 0.6H

2. 木质防火门技术要求:

- (1) 木门框应选用一、二等红松、华山松、栎安, 亦可选

用同等材质的木材, 但必需与耐火极限试验材质相同, 制作时含水率不得超过12%。

- (2) 木材截面尺寸, 均为净尺寸, 如有特殊要求截面可调整。
- (3) 防烟条沿门框嵌置, 其转角处必须以45度斜角相接嵌紧。
- (4) 门扇骨架选用一、二等红松、华山松、栎安, 亦可选用同等材质的木材, 不得掺入其它钢材。
- (5) 五金配件, 铰链, 门锁等必须与耐火极限试验时的材质相一致。
- (6) 凡向疏散方向开启的木质防火门不得采用钥匙开启的锁, 双扇门应增设顺序器。
- (7) 门扇骨架制作均应符合《建筑安装工程质量检验评定标准》、《木结构工程施工及验收规范》等现行有关防火门制作规范。

3. 钢质防火门技术要求:

- (1) 门框、门扇骨架及面板应采用冷轧薄钢板, 门框宜采用1.2-1.5毫米厚钢板, 门扇面板宜采用

说

0.8—1.2毫米厚钢板,门扇骨架宜采用1.2—1.5毫米厚钢板,门扇骨架如没有螺孔,钢板厚度应不低于3.0毫米。

- (2) 门扇和门框内填充材料,应用不燃性材料填实。
- (3) 安装在钢质防火门上的锁,合页,插销等五金配件,其熔融温度不低于950度。
- (4) 安装在防火门上的合页,不得使用双向弹簧,单扇门应设闭门器。
- (5) 双扇门间必须带有密封板,并装设闭门器和顺序器等(常闭的防火门除外)。
- (6) 门框宜设密封槽,槽内应嵌装由不燃性材料制成的密封条。

4. 防火玻璃技术要求按照GB12513-90《镶嵌玻璃构件耐火试验方法》的要求选用。
5. 钢木防火门参照有关钢、木质防火门有关技术要求。

四. 运输与存放

1. 出厂产品应有商标、名称、型号、规格、耐火极限、制造厂名称以及出厂日期等标志。
2. 防火门出厂时,门框、扇用方木垫平扎紧,注意保护边

明

缘和面板,防止重压、碰撞滑动而使门扇损坏或变形。装卸时,应谨慎搬运,轻抬缓放,严禁抛、摔、甩、丢,起吊时应平稳堆放,不能前后挤压,应用钢丝绳扎紧,以免因车辆震动而损坏。

3. 木质防火门应存放在库房或敞棚内,防止日晒、雨淋。存放时应平放或侧立于垫木上,垫木高度距地面应大于400毫米,库房应保持通风。
4. 钢质防火门应贮存通风干燥处,应有防晒、防潮、防腐措施。产品平放时底部须垫平,门框堆码高度不得超过1.5米,门扇堆放高度不超过1.2米。产品竖放时,其倾斜角度不得大于20度,长度不得大于5.0米。

五. 安装要求:

1. 凡疏散口用的防火门,其开启方向必须同疏散方向一致。
2. 门框、扇安装前必须进行检查,如因运输堆放不慎有变形脱胶等现象时,应整修合格后方可进行安装。
3. 防火门安装时应注意开启方向,同时应校正其前后左右的垂直度,必须作到横平竖直,高低一致。
4. 木门框立框应由施工单位按本图集所示施工,当洞口

说明

两侧为混凝土墙,柱时,可预埋木砖、预留孔,或埋铁件均可。

5. 钢门框立框应采用铁件与墙体连接由施工单位按本图所示埋设,当洞口两侧为混凝土墙,柱时,将铁件直接埋设,然后将门框上连接件用E42焊条焊牢。

6. 镶配门扇时铰链应垂直,防止门扇因弹阻滞现象。

六. 选用方法:

1. 防火门选用时必须选用持有公安部生产许可证的厂家的产品。
2. 本图集的立面图均为由外向内立视,图中所注尺寸均以毫米为单位。
3. 本图集供设计时根据立面形式和使用要求选用,设计者应根据饰面材料调整洞口尺寸。
4. 门框、扇面漆可选用耐高温树脂漆,如选用PVC薄板贴面或切片等,颜色均由设计选定。

5. 图集引用说明及表示:

GFM-XXXX-□XX□

装饰防火门样式:

A.B.C.D.E.F.G.H

耐火极限
甲
乙
丙

门开启方向
1 左开门
2 右开门
3 双开门

玻璃类型
A 不镶玻璃
B 竖向玻璃
C 横向玻璃
D 大玻璃型

门洞高度

门洞宽度

钢质防火门

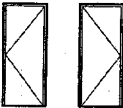
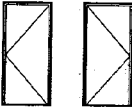
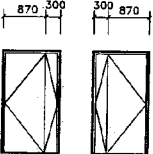
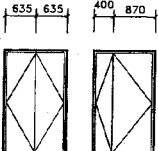
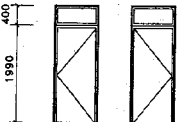
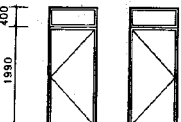
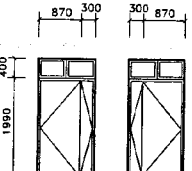
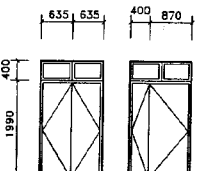
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GMFM 钢木质

GFM 钢质

七. 其它:

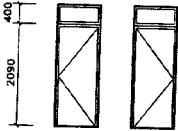
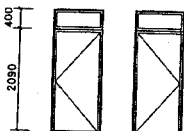
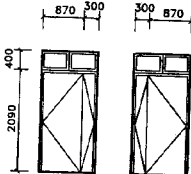
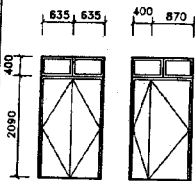
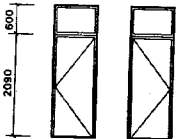
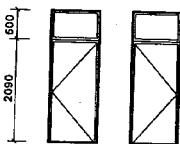
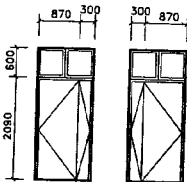
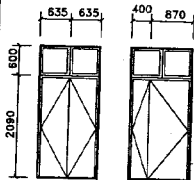
采用的国家规范、标准,如有变动,按现行的国家规范、标准执行。

洞口宽	900	1000	1200	1300
高 框口	870	970	1170	1270
2100 2090	 0921	 1021	 1221	 1321
2400 2390	 0924	 1024	 1224	 1324

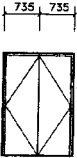
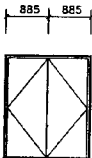
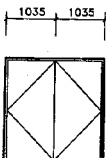
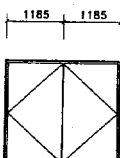
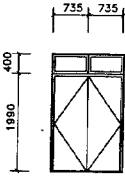
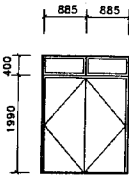
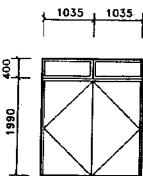
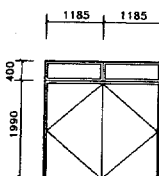
跟多资料加微信公众号jianzhu118

不镶玻璃防火门立面

图集号 L1

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高	870	970	1170	1270
2500	 0925	 1025	 1225	 1325
2700	 0927	 1027	 1227	 1327

设计
 校对
 审核
 日期
 图号

洞口宽	1500	1800	2100	2400
洞口高	1470	1770	2070	2370
2100	 1521	 1821	 2121	 2421
2400	 1524	 1824	 2124	 2424

跟多资料加微信公众号: jianzhu118

说明:宽度2100和2400的仅用于钢质和钢木质防火门。

不镶玻璃防火门立面

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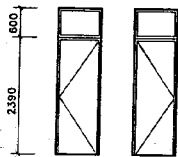
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2700	2690	2090	2090	2090
735	735	885	1035	1185
400	400	400	400	400
1525	1825	2125	2425	
735	735	885	1035	1185
800	800	800	800	800
1527	1827	2127	2427	

说明:宽度2100和2400的仅用于钢质和钢木质防火门。
跟多资料加微借公众号j1ianzhu118

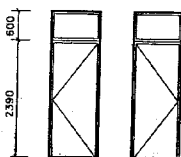
不镶玻璃防火门立面

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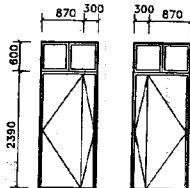
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高	2990	2990	2990	2990
洞口宽	1500	1800	2100	2400
高	2990	2990	2990	2990



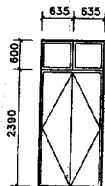
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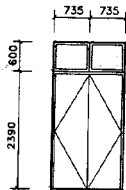
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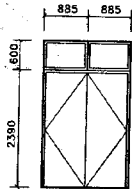
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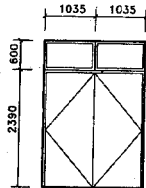
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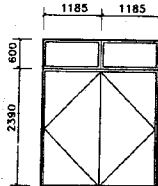
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1830



2130



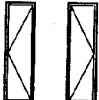
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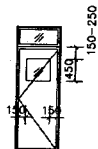
跟多资料加微信公众号jianzhu118

说明:宽度2100和2400的仅用于钢质和钢木质防火门。

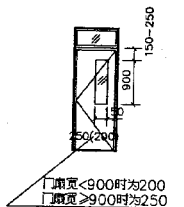
不锈玻璃防火门立面

图集号

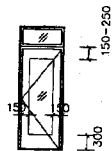
洞口	宽	600
高	框口	570
1500	1490	 0615 1500×600木质防火门 用于管道井检修处
2000	1990	 0620 2000×600木质防火门 用于管道井检修处



防火玻璃镶在门扇上部



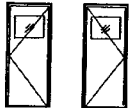
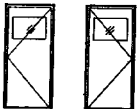
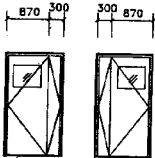
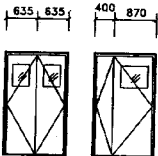
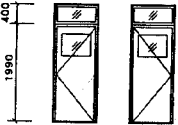
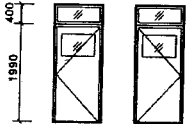
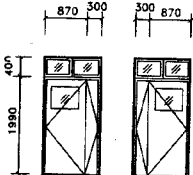
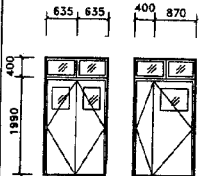
防火玻璃镶在门扇右(左)上角



防火玻璃镶在门扇中部偏上

说明:门扇上镶玻璃的规格按照以上尺寸。

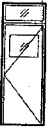
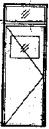
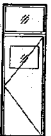
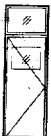
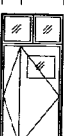
王 昊
张 川
校 对
设 计

洞口 宽	900	1000	1200	1300
高 框口	870	970	1170	1270
2100 2090	 0921	 1021	 1221	 1321
2400 2390	 0924	 1024	 1224	 1324

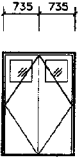
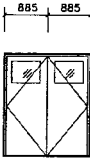
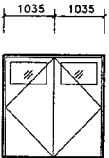
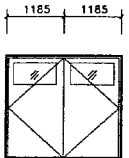
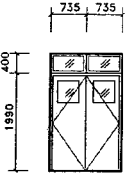
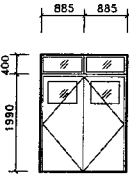
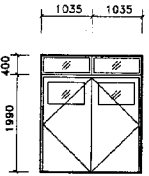
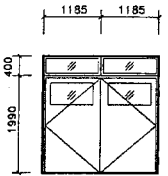
跟多资料加微信公众号jianzhu118

门 窗 详 图

图集号 L92

洞口宽	900	1000	1200	1300
高	870	970	1170	1270
2500	2490	2090	2090	2090
2490	400	400	400	400
	  0925	  1025	  1225	  1325
2700	2690	2090	2090	2090
2690	600	600	600	600
	  0927	  1027	  1227	  1327

审 计 王 兴 王 兴
 校 对 张 昌 川
 设 计 王 兴

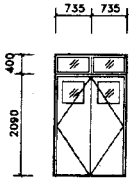
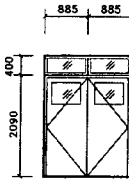
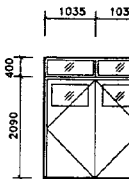
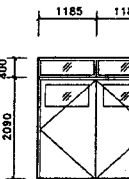
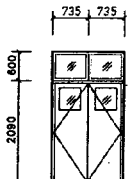
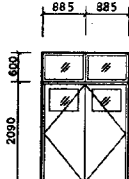
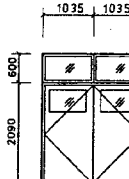
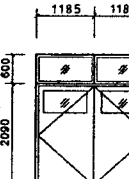
洞口宽	1500	1800	2100	2400
高框口	1470	1770	2070	2370
2100	2090			
	 1521	 1821	 2121	 2421
2400	2390			
	 1524	 1824	 2124	 2424

跟多资料加微信公众号jianzhu118

说明:宽度2100和2400的仅用于钢质和钢木质防火门。

镶横向玻璃防火门立面

图索号

洞口宽	1500	1800	2100	2400
高框口	1470	1770	2070	2370
2500 2490	 1525	 1825	 2125	 2425
2700 2690	 1527	 1827	 2127	 2427

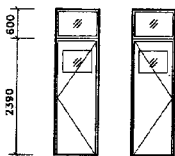
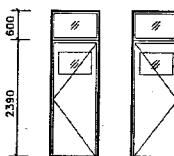
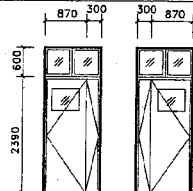
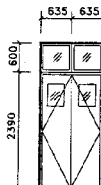
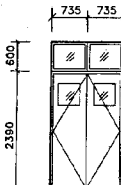
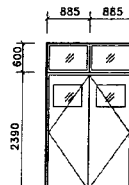
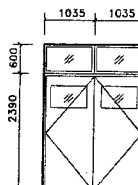
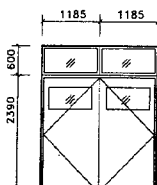
说明:宽度2100和2400的仅用于钢质和钢木质防火门。

跟多资料加微信公众号jianshu118

镶横向玻璃防火门立面

图集号 L92J6

页号 14

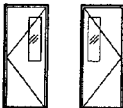
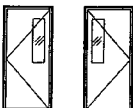
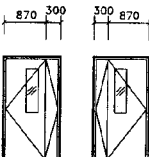
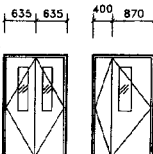
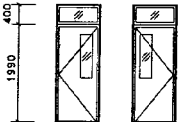
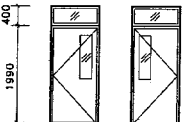
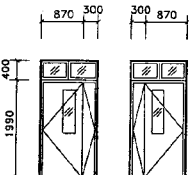
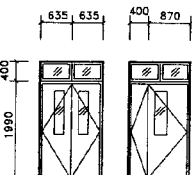
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高 框口	870		970		1170		1270		
3000	2990		0930		1030		1230		1330
洞口宽	1500		1800		2100		2400		
高 框口	1470		1770		2070		2370		
3000	2990		1530		1830		2130		2430

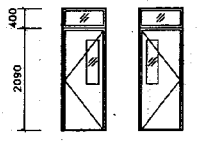
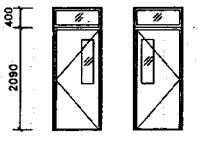
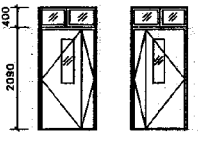
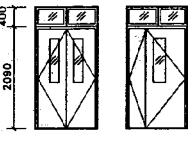
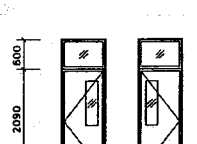
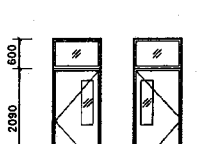
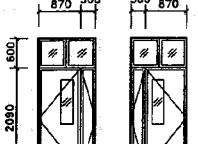
跟多资料加微信公众号: jzjzph-118

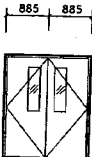
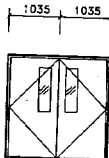
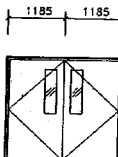
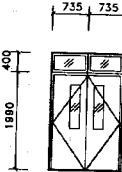
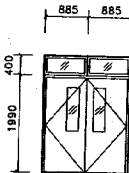
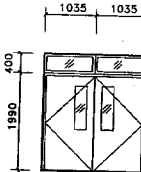
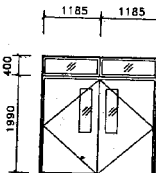
说明: 宽度2100和2400的仅用于钢质和钢木质防火门。

镶横向玻璃防火门立面

图索号

洞口宽	900	1000	1200	1300
洞口高	870	970	1170	1270
2100 2090	 0921	 1021	 1221	 1321
2400 2390	 0924	 1024	 1224	 1324

洞口宽	900	1000	1200	1300
洞口高	870	970	1170	1270
2500	 0925	 1025	 1225	 1325
2700	 0927	 1027	 1227	 1327

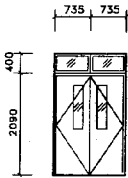
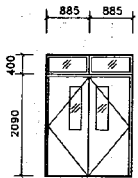
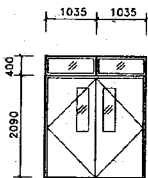
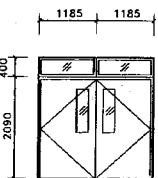
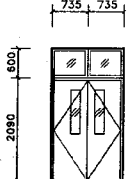
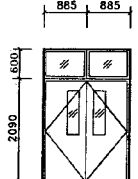
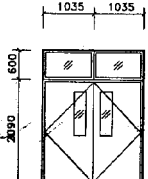
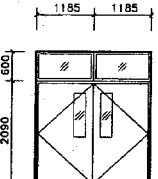
洞口宽	1500	1800	2100	2400
洞口高	1470	1770	2070	2370
2100 2090	 1521	 1821	 2121	 2421
2400 2390	 1524	 1824	 2124	 2424

说明:宽度2100和2400的仅用于钢质和钢木质防火门。
跟多资料加微信公众号jianzhul18

镶竖向玻璃防火门立面

图 集 号 L92J0

商 号	1 号
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洞口宽	洞口高	1500	1800	2100	2400
2500	2490	 1525	 1825	 2125	 2425
2700	2690	 1527	 1827	 2127	 2427

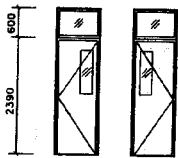
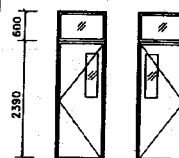
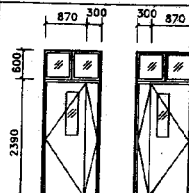
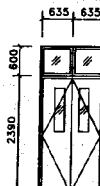
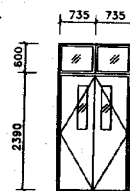
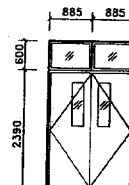
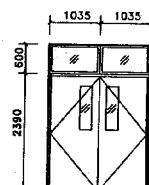
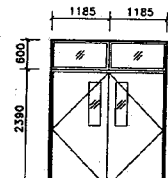
跟多资料加微信公众号1141241116

说明:宽度2100和2400的仅用于钢质和钢木质防火门。

镶竖向玻璃防火门立面

图集号

页号

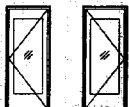
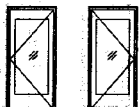
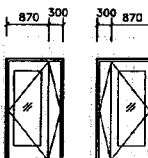
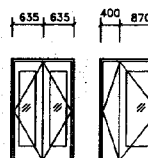
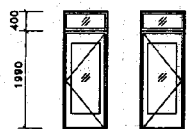
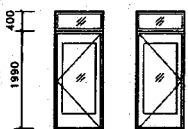
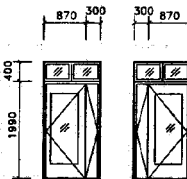
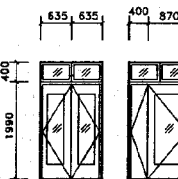
洞口宽	900	1000	1200	1300
高框口	870	970	1170	1270
3000	2990			
				
洞口宽	1500	1800	2100	2400
高框口	1470	1770	2070	2370
3000	2990			
				

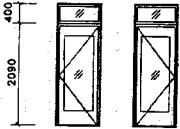
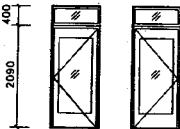
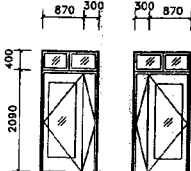
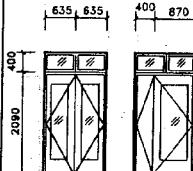
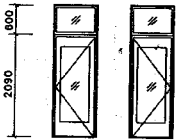
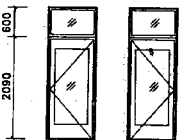
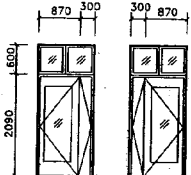
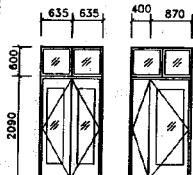
说明:宽度2100和2400的仅用于钢质和钢木质防火门。

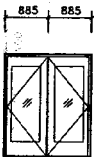
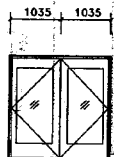
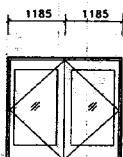
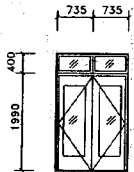
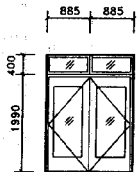
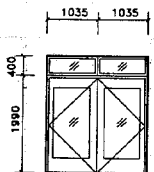
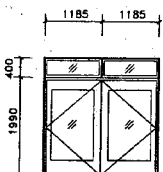
跟多资料加微信公众号jianzhul18

镶竖向玻璃防火门立面

图号	L92J606
页号	20

洞口宽	洞口高	900	1000	1200	1300
2100	2090	 0921	 1021	 1221	 1321
2400	2390	 0924	 1024	 1224	 1324

洞口宽	900	1000	1200	1300
洞口高	870	970	1170	1270
2500	 0925	 1025	 1225	 1325
2700	 0927	 1027	 1227	 1327

洞口宽	1500	1800	2100	2400
洞口高	1470	1770	2070	2370
2100 2090	 1521	 1821	 2121	 2421
2400 2390	 1524	 1824	 2124	 2424

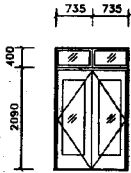
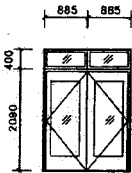
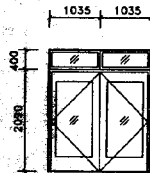
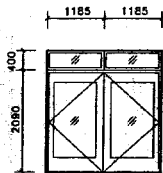
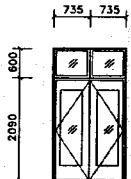
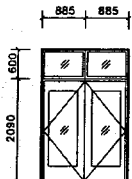
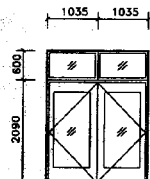
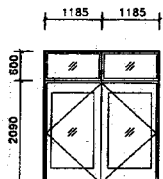
说明：宽度2100和2400的仅用于钢质和钢木质防火门。

跟多资料加微信公众号：fanzhu116

镶大片玻璃防火门立面

图索号

页 号

洞口宽	1500	1800	2100	2400
洞口高	1470	1770	2070	2370
2500 2490	 1525	 1825	 2125	 2425
2700 2690	 1527	 1827	 2127	 2427

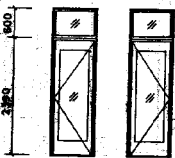
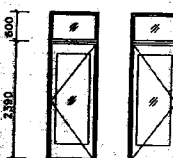
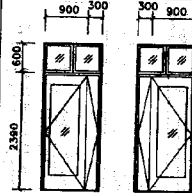
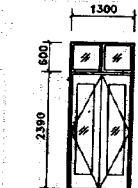
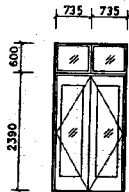
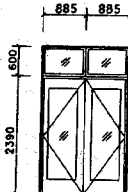
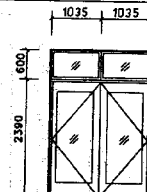
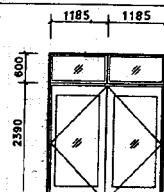
说明:宽度2100和2400的仅用于钢质和钢木质防火门。

跟多资料加微信公众号jianshu118

镶大片玻璃防火门立面

图集号 L92J60

页号 24

洞口宽	900	1000	1200	1300
高	870	970	1170	1270
3000				
洞口宽	1500	1800	2100	2400
高	1470	1770	2070	2370
3000				

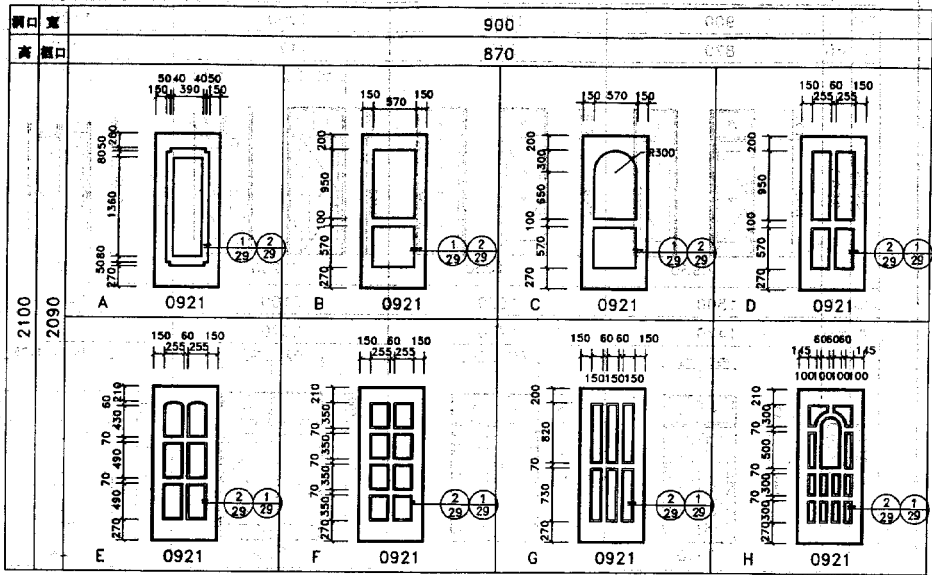
注:宽度2100和2400的仅用于钢质和钢木质防火门。

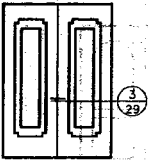
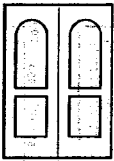
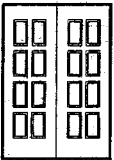
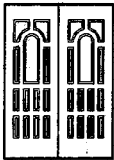
跟多资料加微信公众号jianzhu118

镶大片玻璃防火门立面

图集号

页 号

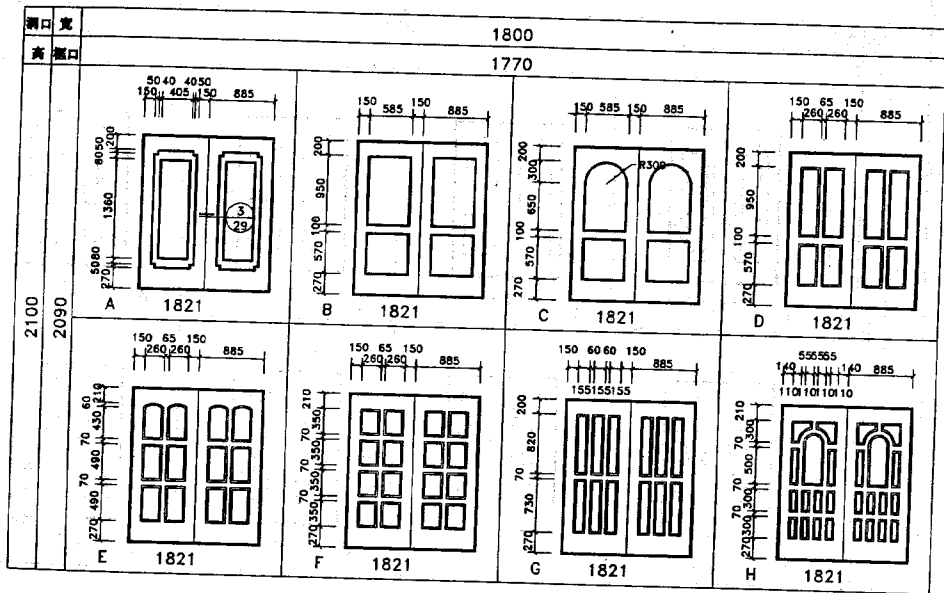


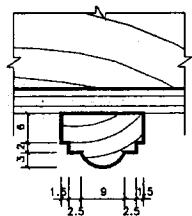
洞口 宽		1500	
高 洞口		1470	
2100	2090	 A 1521	 B 1521
		 C 1521	 D 1521
2100	2090	 E 1521	 F 1521
		 G 1521	 H 1521

跟多资料加微信1500宽细部尺寸参照28页1800宽尺寸。

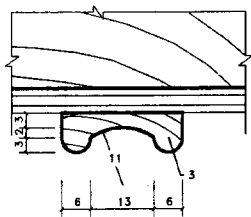
实芯木质装饰防火门典型立面

图集号
页 号

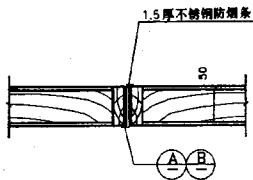




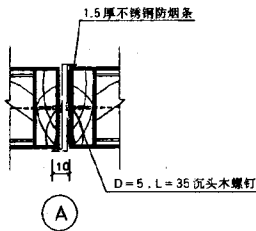
①



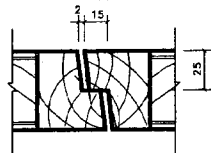
②



③



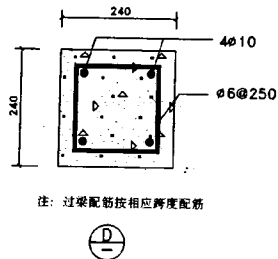
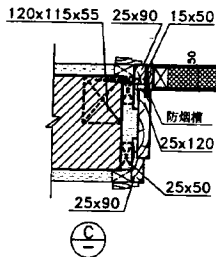
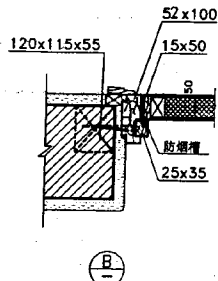
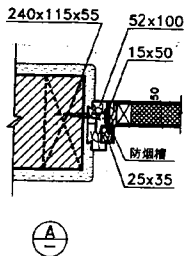
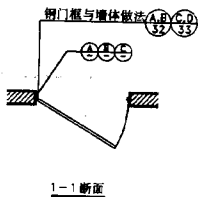
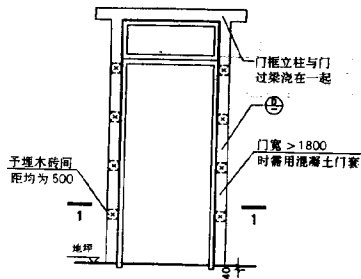
A



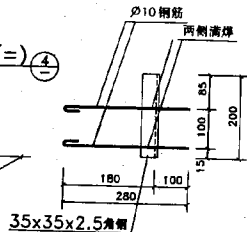
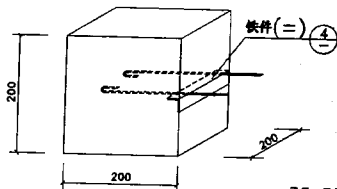
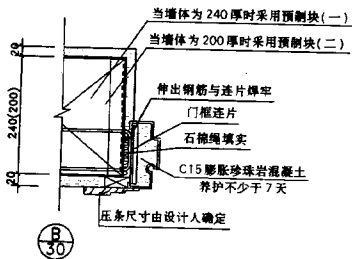
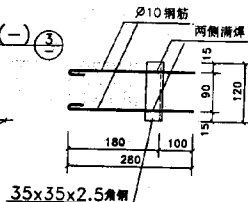
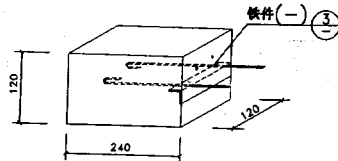
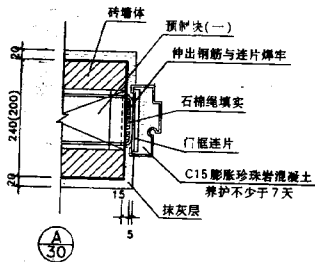
B

实芯木质装饰防火门节点

图集号	L92J506
页号	29

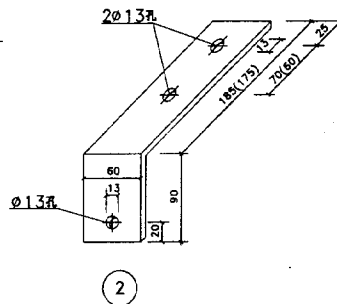
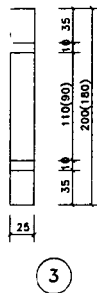
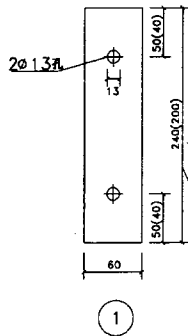
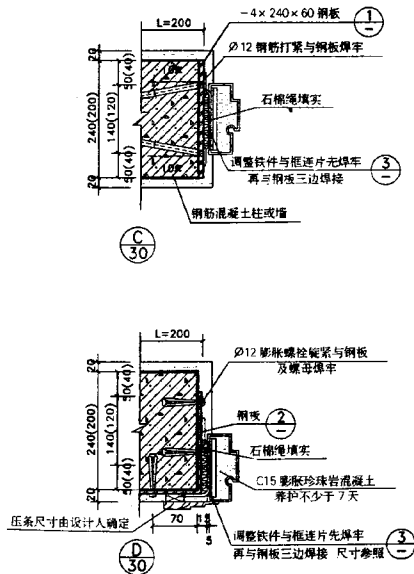


注: 过梁配筋按相应跨度配筋



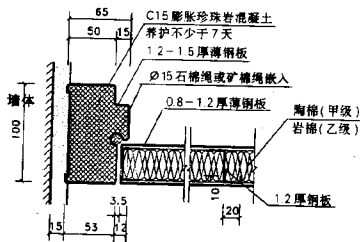
说明: 预制块混凝土均为C20

审核	王强
设计	王强
校对	王强
绘图	王强

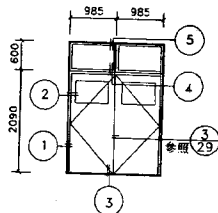


钢质防火门节点安装详图(二)

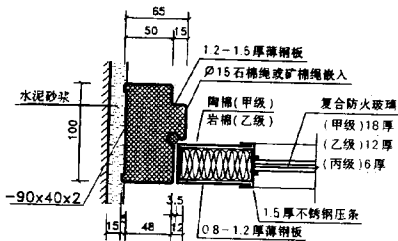
图号	19
页号	



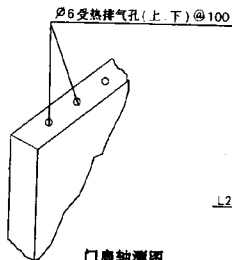
1



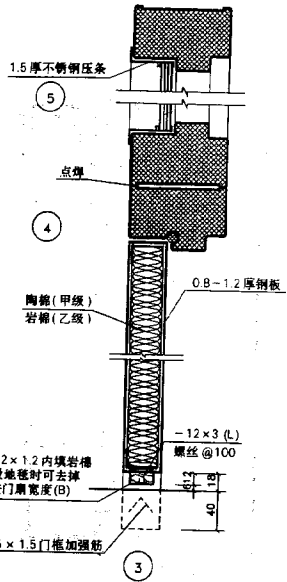
典型立面节点示意



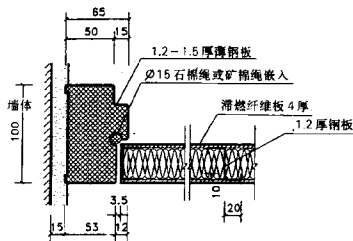
2



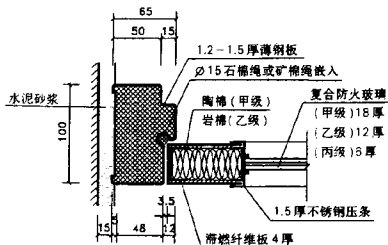
门扇轴测图



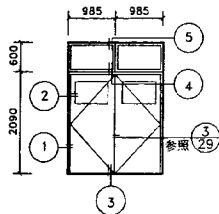
3



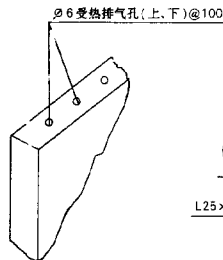
①



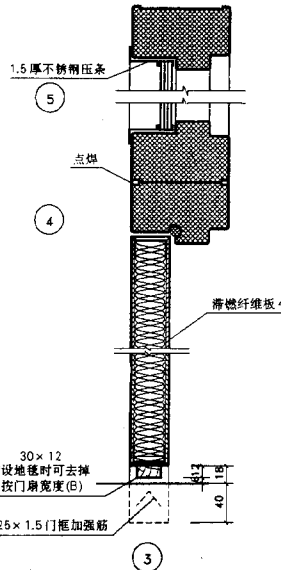
②



典型立面节点示意



门扇轴测图



1.5厚不锈钢压条
点焊
30×12
铺设地毯时可去掉
按门扇宽度(B)
L25×25×1.5门框加强筋

③

钢木防火门节点详图