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建筑构造通用图集

第 2 版

88J13-4

钢质防火门 防火卷帘

华北地区建筑设计标准化办公室 审定 2004 年
西北地区建筑标准设计协作办公室

2007/07/12

88J13-4 (第2版)

钢质防火门 防火卷帘

主持单位: 华北地区建筑设计标准化办公室

主持单位负责人: 马欣
主持单位技术负责人: 何玉如
主持单位审核人: 郑玉山

前 言

88J是我们编制的建筑构造标准图集,是建筑设计文件的一部分,早期的标准设计文件曾以蓝图形式出现,随着建筑规模的扩大,使用量的增多,这种方式及图版规格不能满足使用需要,逐渐形成现在全国普遍采用的标准设计文件形态,但其功能、性质不变,仍是设计文件的一部分。

本图集自上世纪问世以来,已历时十余年。在此期间获得了广大用户的支持与关心,收到了各方面的建议和意见。

鉴于新的建筑材料和建筑技术不断出现,一些标准和规范也有修改,初编版的88J中,有些技术已不适应当前状况。为满足使用要求,我们曾以续编方式(即在编号后加“X”表示)补充新的内容。但这种方式只解决短期之需,难以做到全面更新。同时续编太多,也容易造成前后关系的混乱。为此,我们在听取各方面意见后,决定在新世纪初实施全面的二次修编。

二次修编原则仍如既往规定,即(一)以满足常用的一般标准的民用建筑构造为主,适当兼顾部分较高标准的需要。(二)尽量反映新技术、新材料的发展状况。(三)力求适应工厂化配件制品的发展,并在图集附录中提供部分产品情况。(四)努力做到构造技术先进,材料选用适当,品种类型多样,设计采用方便。

由于“88J”已在国家商标局进行商标注册,已经不是编制年份的含义。故二次修编仍沿用“88J”的名称。为便于区别,在封面上以

“第2版”表示,敬请用户注意。

关于图集的编排次序,凡与初编图内容相同者,均用原册号。凡新增内容的各册序号,均在后排列。同时在各册序号后增加“-X”小序列,表示该册内容中有若干分册。例如“88J2-1”,前面的“2”字表示墙身册的序号,而后列的小序列“-1”表示墙身册的第1分册,“-2”为墙身册的第2分册……

在进行二次修编时将初编图进行筛选,或淘汰或继续使用,在各册中将分别说明。

考虑到标准设计图集属推荐性标准,而非强制性标准,应从有利推动科技进步角度选用,不应用行政手段推行地区性保护政策。故本图集实行专家组审定推荐。

本图集除华北西北地区外,也适用于国内多数地区。用户在使用中有何批评建议,盼告华北标办,以便改进,更好地为用户服务。

本图集由华北标办主持编制,华北、西北标办联合组织审定。

华北地区建筑设计标准化办公室
西北地区建筑标准设计协作办公室
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2007/07/12

88J13-4 (88J第2版)

钢质防火门
防火卷帘

编制单位:北京市建筑设计标准化办公室

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钢质防火门编制说明

一、适用范围

(1) 钢质防火门适用于居住建筑、公共建筑和工业建筑有防火要求的内门。

(2) 本图集仅供工程设计人员设计参考。

二、钢质防火门应符合有关的规范和标准

2.1 "建筑设计防火规范" GBJ16-87(2001年版)

2.2 "高层建筑设计防火规范" GB50045-95(2001年版)

2.3 "钢质防火门通用技术条件" GB12955-91

2.4 "门和卷帘的耐火试验方法" GB/T7633-87

2.5 "建筑门窗洞口尺寸条例" GB5824-86

三、钢质防火门编制原则

(1) 开启形式根据防火规范应向疏散方向开启的规定,一律为单向开启自动关闭。

(2) 防火门及透明防火复合玻璃的防火等级按规定分为三级:甲级;乙级;丙级

甲级耐火极限>1.2小时;乙级耐火极限>0.9小时;丙级耐火极限>0.6小时。

(3) GF为防火门代号,0,1,2,3,4,5,6,7,8,H,S,为门形式代号,具体如下:

GF0 钢质圆玻防火门 (透明防火复合玻璃)

GF1 钢质全板防火门

GF2 钢质方玻防火门 (透明防火复合玻璃)

GF3 钢质侧条半玻防火门 (透明防火复合玻璃)

GF4 钢质中条半玻防火门 (透明防火复合玻璃)

GF5 钢质侧条全玻防火门 (透明防火复合玻璃)

GF6 钢质中条全玻防火门 (透明防火复合玻璃)

GF7 钢质半玻防火门 (透明防火复合玻璃)

GF8 钢质全玻防火门 (透明防火复合玻璃)

GFH 钢质防盜隔声防火门

GFS 钢质防火隔声门

钢质防火门立面形式



GF0

钢质圆玻防火门

GF1

钢质全板防火门

GF2

钢质方玻防火门

GF3

钢质侧条半玻防火门

GF4

钢质中条半玻防火门

GF5

钢质侧条全玻防火门

GF6

钢质中条全玻防火门

GF7

钢质半玻防火门

GF8

钢质全玻防火门

图名

钢质防火门说明(一)

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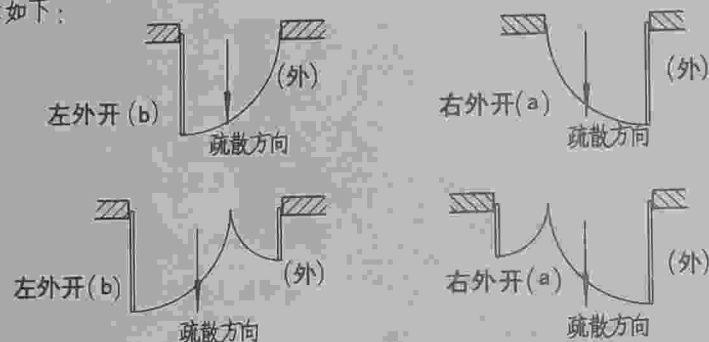
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(4) 门的开启方向标志: 本图集规定由外向外开启方向立视, 门轴在所视方向左侧时为左外开(即平面为顺时针方向)代号为“b”, 门轴在所视方向右侧时为右外开(即平面为逆时针方向)代号为“a”。

(5) 大小扇门开启方向应以大扇(即主扇)开启方向为准。

图示如下:

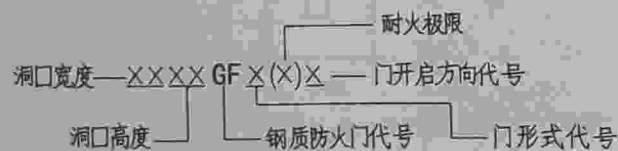


(6) 门洞口编号方法: 为方便设计选用, 缩短门的编号数字, 前两位数为门洞宽, 后两位数为门洞高。例: 0920GF1b 即为900X2000洞口的钢质左外开全板防火门。

(7) 钢质防火门洞口最大宽度为2400mm, 最大高度为3000mm。

(8) 本分册按乙级防火门标准编制, 故在编号中不需另加代号, 要求甲级耐火时, 则在总编号后面需加注“甲”字, 丙级防火门适用于管道井检修门等规范允许部位。

(9) 门洞口及门的编号如下:



示例: 洞口宽度 1200 — 1221GF5(甲)a — 右外开

洞口高度 2100 — 甲级钢质侧条全玻防火门

四、钢质防火门的标准要求

(1) 门框、门扇面板及其加固件均采用冷轧薄钢板, 且为一次冷轧成型。门框钢板厚度1.2~1.5mm, 门扇面板厚度为0.8~1.2mm, 无螺孔加固件厚度1.2~1.5mm, 有螺孔加固件厚度 ≥ 3.00 mm。

(2) 钢质门框内填1:2:5水泥珍珠岩砂浆或1:3水泥砂浆, 由施工单位现场灌注。门扇应由不燃材料填实(硅酸铝纤维毡, 岩棉等不燃材料)。

(3) 钢质门框应设密封槽, 槽内应镶嵌由不燃材料制成的密封条(两侧镶嵌隐蔽的防火膨胀条)。

(4) 合页、门锁、插销等五金配件的熔融温度不低于950°C。

(5) 钢质防火门不得使用双向弹簧合页。单扇门应设闭门器, 双扇门间必须带有盖缝板, 并应装设闭门器及顺序器(常闭的防火门除外)。

(6) 钢质防火门上玻璃采用透明防火复合玻璃, 钢制玻璃压条。

五、注意事项

(1) 门表面装饰可作喷塑、喷涂、木面效果或不锈钢面等, 由设计人在图纸中注明。

(2) 本图集门框与洞口预留的安装缝隙均为10毫米。如工程的墙面装饰厚度大于20毫米时, 选用人应考虑加宽洞口尺寸, 以免盖住门框, 影响开启。

(3) 本图集九种防火门形式, 代表不同功能及不同价格。选用人应根据工程的建筑标准及采光的需要, 选用相应的防火门形式, 以降低建筑工程造价。

图名

钢质防火门说明(二)

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(4) 选用人应根据交通流量和搬运家具的需要,选择较合宜的有效通行宽度。

洞口宽度	900	1000	1200	1500	1800	2100
有效通行宽度	770	870	1070	1370	1670	1970

(5) 根据不同情况分别选用耐火轴承铰链,闭门器及顺序器来解决门扇自闭问题由生产加工厂统一定型配套提供。

(6) 根据安全疏散要求,防火门原则上不设门锁,如工程需要,可在订货时提出由生产厂配合安装。双扇门安装门锁时还应安装上下暗插销。

六、土建施工安装要求

(1) 本图集是按后塞口施工工艺考虑的。可在洞口两侧按图中门框拉接钢板位置预埋件。门框安装经过检验垂直及水平后,再用电焊把门框拉接钢板与洞口埋件焊牢。墙体上无预埋铁件可用膨胀螺栓固定。

(2) 门框下部应用平钢板垫实,增加承压面积,防止门框负重变形。

(3) 门框下部拉接钢板是为解决运输过程中变形及安装方便而设置。

钢质防火门种类

	耐火极限	门扇厚度	门扇填充	门扇钢板厚度	门框钢板厚度	门 型
甲级防火门	≥1.2小时;	40.0~50.0mm	硅酸铝纤维毡	0.8~1.2mm	1.2~1.5mm	平开门(双扇/单扇),移门
乙级防火门	≥0.9小时;	40.0~50.0mm	硅酸铝纤维毡	0.8~1.2mm	1.2~1.5mm	平开门(双扇/单扇),移门
丙级防火门	≥0.6小时;	40.0~50.0mm	岩棉	0.8~1.2mm	1.2~1.5mm	平开门(双扇/单扇)
特种防火门	≥2.0小时;	55.0~60.0mm	硅酸铝纤维毡	1.2~1.5mm	1.5~2.0mm	平开门(双扇/单扇)

安全配置: 防火执手锁/推杠逃生锁,闭门器及顺序器。

在安装时可根据具体情况埋入垫层或锯掉均可。

(4) 在洞口上部向下墙体两侧预留出(无预留则要凿出)120X120X墙厚的豁口作为填水泥砂浆或水泥珍珠岩砂浆的预留口。洞口上部墙体两侧没有条件做预留豁口的情况时,也可不做豁口,安装前由施工单位预先在钢质门框内填灌1:2.5水泥珍珠岩砂浆或1:3水泥砂浆,待砂浆凝固后再安装钢质防火门。

七、运输及堆放

(1) 运输时应竖立放置,必须码放整齐,轻抬轻放,不得掺插挤压。装妥后用绳子捆扎牢固,以免损坏变形。

(2) 堆放应选择能防雨、防晒的干燥场地或库房,设立靠门架,与地面的倾角不小于70°,离地面架空200mm高以上,以防受潮锈蚀。严禁产品露天存放。

(3) 为严格消防产品的管理及方便产品的监督,生产厂家对产品签发出厂证明标签,每件产品注有产品名称、规格、耐火等级、合格证章及检验年、月、日。

图名

钢质防火门说明(三)

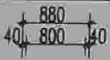
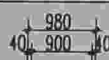
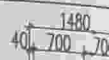
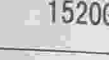
图集号

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编制人	冯国梁	审核人	陶驹骥	制图人	冯国梁	门洞口	900	1000	1200	1500
							 0920GF0b 0920GF0a	 1020GF0b 1020GF0a	 1220GF0b 1220GF0a	 1520GF0
2000	2000	2000	2000	2000	2000		 0921GF0b 0921GF0a	 1021GF0b 1021GF0a	 1221GF0b 1221GF0a	 1521GF0
2400	2400	2400	2400	2400	2400		 0924GF0b 0924GF0a	 1024GF0b 1024GF0a	 1224GF0b 1224GF0a	 1524GF0
2400	2400	2400	2400	2400	2400		 0924GF01b 0924GF01a	 1024GF01b 1024GF01a	 1224GF01b 1224GF01a	 1524GF01

图名 GFO钢质圆玻防火门1

图样号 88J13-4

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	门高	900		1000		1200		1500	
2700	2700								
	2700								
3000	3000								
	3000								

图名 GF0钢质圆玻防火门2

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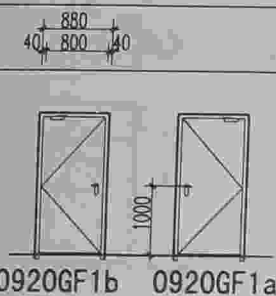
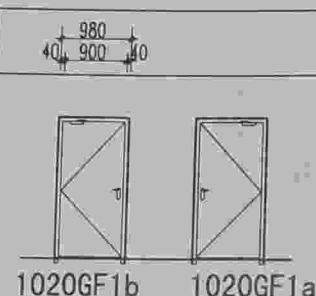
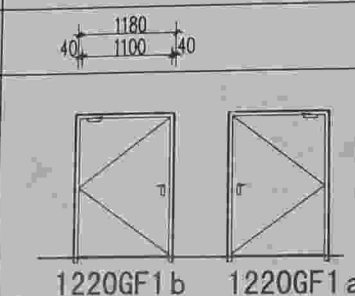
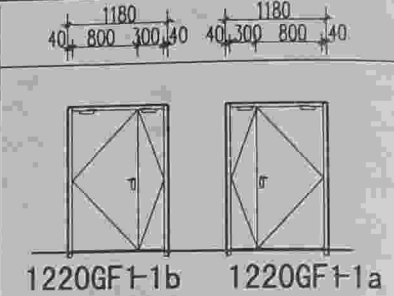
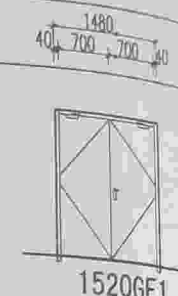
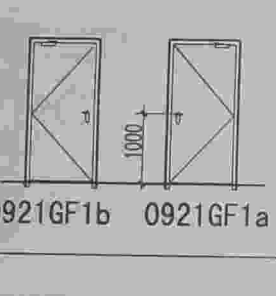
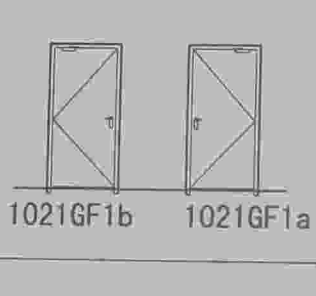
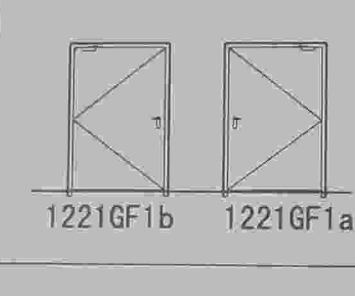
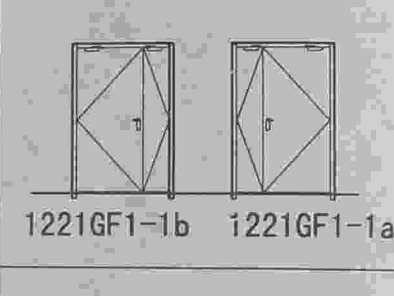
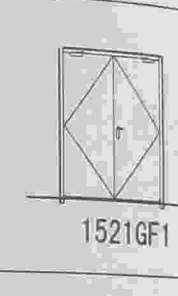
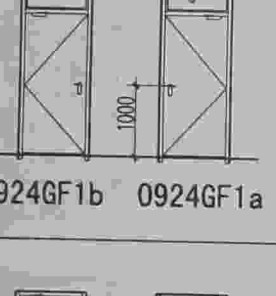
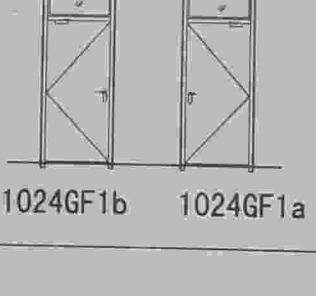
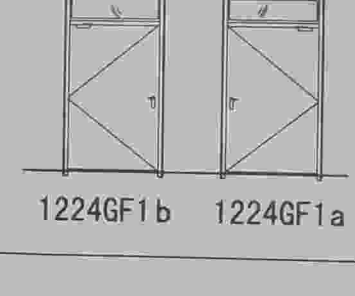
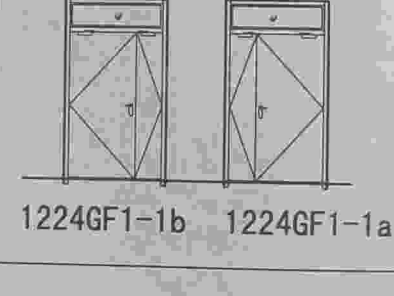
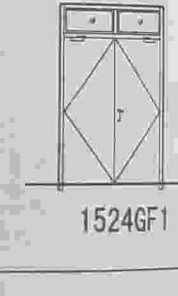
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图集号 88J13-4											
页次 7											

图名 GF0钢质圆玻防火门3

图集号 88J13-4
页次 7

2007/07/12

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冯国梁 制图人		陶朝璇 审核人		冯国梁 编制人		门洞		900	1000	1200		1500
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图名

GF1钢质全板防火门1

图集号

88J13-4

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图名						GF1 钢质全板防火门2				图集号 88J13-4	
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图名 GF1 钢质全板防火门 3 图集号 88J13-4

2007107112

编制人 冯国梁	审核人 陶骏骥	制图人 冯国梁	门洞口	1500		1800	2100	2400
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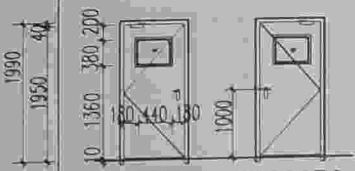
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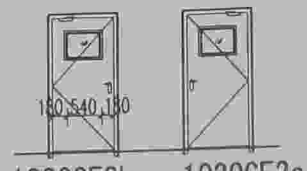
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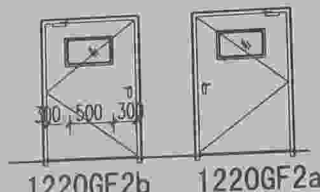
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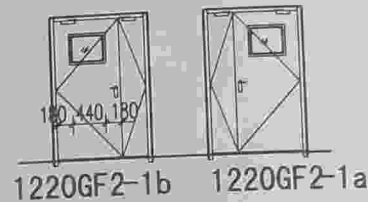
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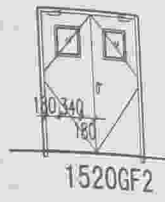
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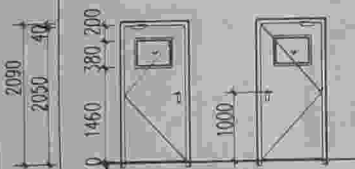
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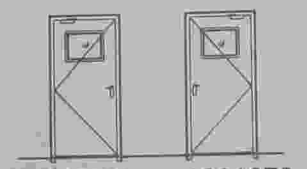
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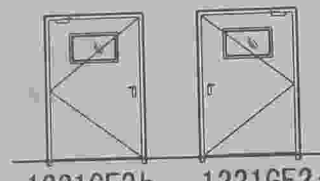
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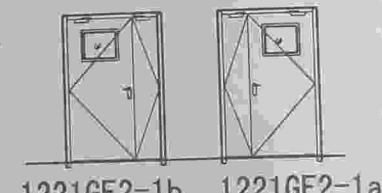
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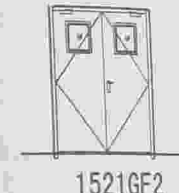
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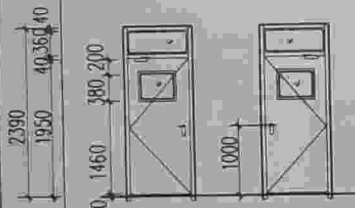
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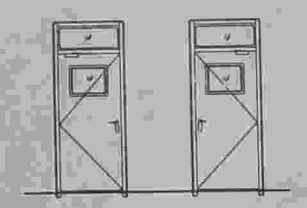
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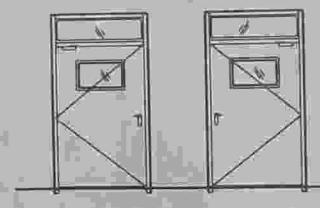
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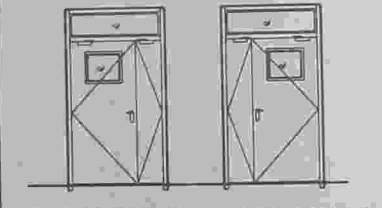
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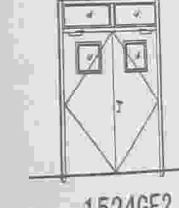
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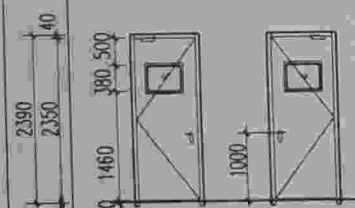
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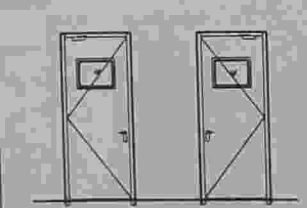
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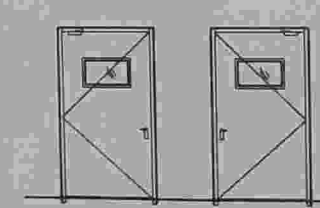
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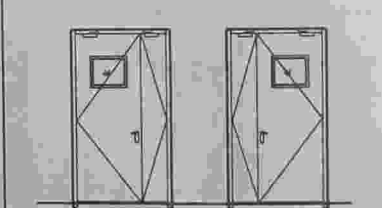
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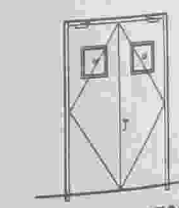
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GF2钢质方玻防火门1

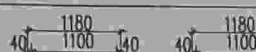
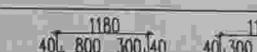
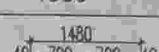
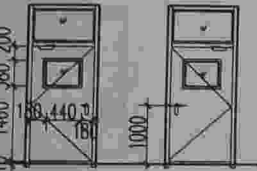
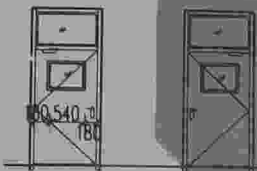
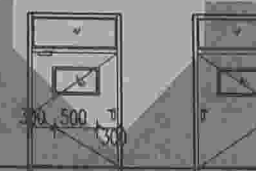
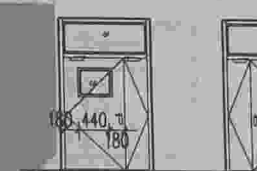
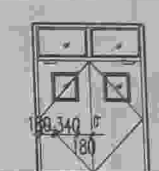
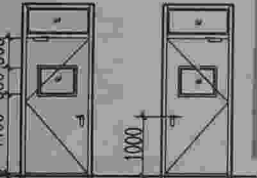
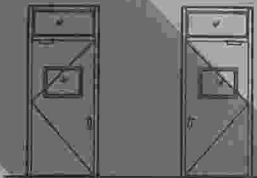
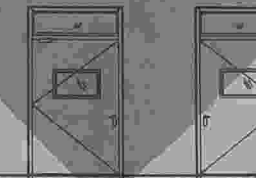
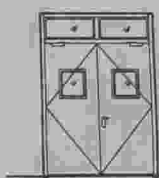
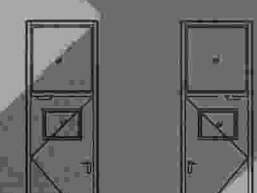
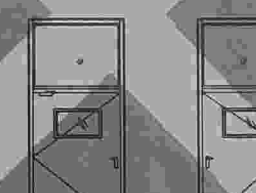
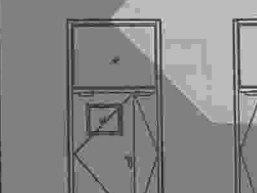
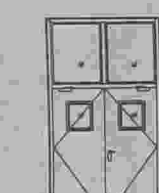
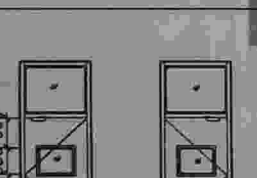
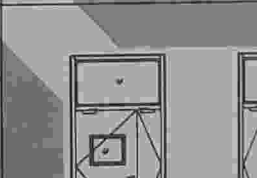
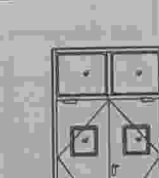
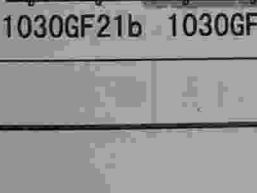
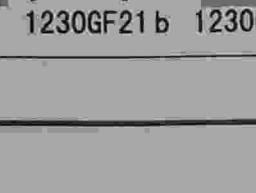
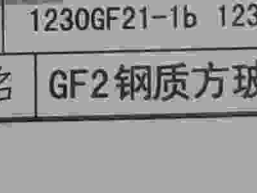
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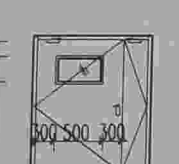
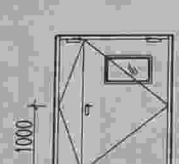
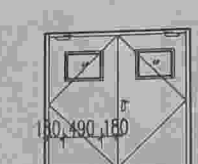
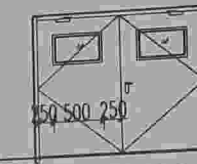
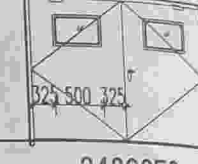
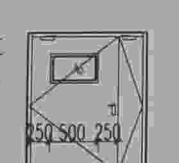
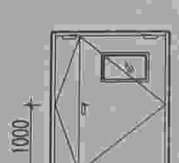
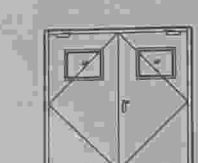
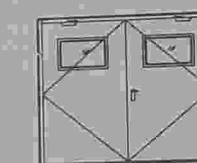
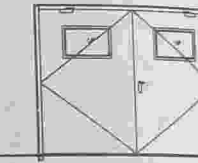
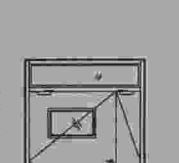
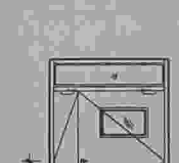
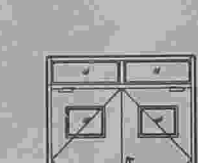
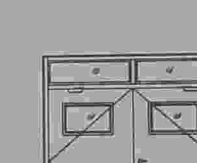
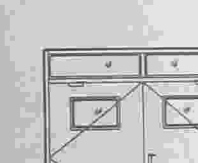
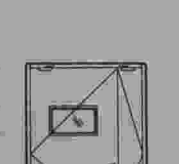
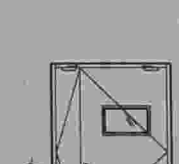
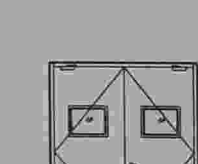
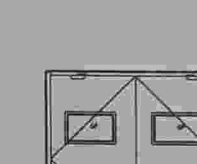
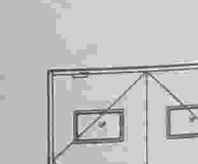
13

2004/07/12

冯国梁 陶明望 审核人 冯国梁 编制人	冯国梁 制图人	2700		900	1000	1200		1500
								
								
				0927GF2b 0927GF2a	1027GF2b 1027GF2a	1227GF2b 1227GF2a	1227GF2-1b 1227GF2-1a	1527GF2
		2700						
				0927GF21b 0927GF21a	1027GF21b 1027GF21a	1227GF21b 1227GF21a	1227GF21-1b 1227GF21-1a	1527GF21
								
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		3000						
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图名 GF2钢质方玻防火门2

2007/07/12

门洞口	1500	1800	2100	2400
2000	 1520GF2-1b  1520GF2-1a	 1820GF2	 2120GF2	 2420GF2
2100	 1521GF2-1b  1521GF2-1a	 1821GF2	 2121GF2	 2421GF2
2400	 1524GF2-1b  1524GF2-1a	 1824GF2	 2124GF2	 2424GF2
2400	 1524GF21-1b  1524GF21-1a	 1824GF21	 2124GF21	 2424GF21

冯国梁 制图人		冯国梁 审核人		冯国梁 冯国梁 冯国梁 冯国梁		冯国梁 冯国梁 冯国梁 冯国梁		冯国梁 冯国梁 冯国梁 冯国梁		冯国梁 冯国梁 冯国梁 冯国梁	
3000		2700		2700		2700		2700		2700	
1500		1800		2100		2400					
 1527GF2-1b 1527GF2-1a		 1827GF2		 2127GF2		 2427GF2					
 1527GF21-1b 1527GF21-1a		 1827GF21		 2127GF21		 2427GF21					
 1530GF2-1b 1530GF2-1a		 1830GF2		 2130GF2		 2430GF2					
 1530GF21-1b 1530GF21-1a		 1830GF21		 2130GF21		 2430GF21					

冯国梁 制图人					冯国梁 审核人					冯国梁 编制人														
2000					2100					2400					2400									
900					1000					1200					1500									
2007/07/12																								

图名 GF3钢质侧条半玻防火门1

2007/07/12

冯国梁 制图人 陶骏骥 审核人 冯国梁 编制人

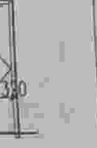
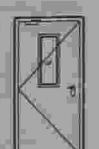
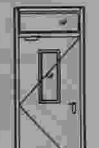
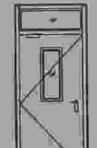
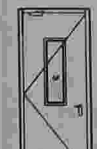
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2700	2690 40 2050 40 560 40								
	10 1120 720 200	0927GF3b	0927GF3a	1027GF3b	1027GF3a	1227GF3b	1227GF3a	1227GF3-1b	1227GF3-1a
	1000								
2700	2690 40 2050 40 560 40								
	10 1120 720 200	0927GF31b	0927GF31a	1027GF31b	1027GF31a	1227GF31b	1227GF31a	1227GF31-1b	1227GF31-1a
	1000								
3000	2990 40 2050 40 860 40								
	10 1120 720 200	0930GF3b	0930GF3a	1030GF3b	1030GF3a	1230GF3b	1230GF3a	1230GF3-1b	1230GF3-1a
	1000								
3000	2990 40 2050 40 560 40								
	10 1120 720 200	0930GF31b	0930GF31a	1030GF31b	1030GF31a	1230GF31b	1230GF31a	1230GF31-1b	1230GF31-1a
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图名 GF3钢质侧条半玻防火门2 图集号 88J12-4 2007/07/12

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冯国梁 审核人 陶国梁 制图人 冯国梁

门洞口		1500	1800	2100	2400
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	2700	1527GF31-1b 1527GF31-1a	1827GF31	2127GF31	2427GF31
	3000	1530GF3-1b 1530GF3-1a	1830GF3	2130GF3	2430GF3
	3000	1530GF31-1b 1530GF31-1a	1830GF31	2130GF31	2430GF31

编制人	冯国梁	审核人	陶晓璐	制图人	冯国梁	门洞	900	1000	1200		1500
						880 800 40 40 880 800 40 40	980 900 40 40 980 900 40 40	1180 1100 40 40 1180 1100 40 40	1180 800 300 40 40 300 800 40 40	1480 700 700 40 40	
2000						1990 1950 40 10 1120 620 200  1000 320 160 320 0920GF4b 0920GF4a	 320 160 320 1020GF4b 1020GF4a	 320 160 320 1220GF4b 1220GF4a	 320 160 320 1220GF4-1b 1220GF4-1a	 320 160 320 1520GF4	
2100						2090 2050 40 10 1120 720 200  1000 320 160 320 0921GF4b 0921GF4a	 320 160 320 1021GF4b 1021GF4a	 320 160 320 1221GF4b 1221GF4a	 320 160 320 1221GF4-1b 1221GF4-1a	 320 160 320 1521GF4	
2400						2390 1950 40 350 40 10 1120 620 200  1000 320 160 320 0924GF4b 0924GF4a	 320 160 320 1024GF4b 1024GF4a	 320 160 320 1224GF4b 1224GF4a	 320 160 320 1224GF4-1b 1224GF4-1a	 320 160 320 1524GF4	
2400						2390 2350 40 10 1120 720 500  1000 320 160 320 0924GF41b 0924GF41a	 320 160 320 1024GF41b 1024GF41a	 320 160 320 1224GF41b 1224GF41a	 320 160 320 1224GF41-1b 1224GF41-1a	 320 160 320 1524GF41	
图名									GF4 钢质中条半玻防火门 1		
图集号									88J13-4		

图名

GF4 钢质中条半玻防火门 1

图集号

88J13-4

2007/07/12

编制人					审核人					陶加骥					制图人					冯国梁																			
3000					2700					2700					900					1000					1200					1500									
2990 40 560 40 2350 720 200 10 1120 720 200 1000					2690 40 560 40 2050 720 200 10 1120 720 200 1000					2690 40 560 40 2050 720 200 10 1120 720 200 1000					880 40 800 40 880 40 800 40					980 40 900 40 980 40 900 40					1180 40 1100 40 1180 40 1100 40					1180 40 800 300 40 1180 40 300 800 40					1480 40 700 700 40				
0930GF4b 0930GF4a					1030GF4b 1030GF4a					1230GF4b 1230GF4a					1230GF4-1b 1230GF4-1a					1530GF4																			
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图名					GF4 钢质中条半玻防火门2					图索号					88J13-4																								
										页次					22																								

2007/07/12

冯国梁					门洞口	1500		1800		2100		2400		
编制人 冯国梁	审核人 陶驹骥	制图人 冯国梁	2000											
				2100										
					2400									
						2400								
										图名	GF4 钢质中条半玻防火门			

2007/07/12

冯国梁 编制人	陶弘毅 审核人	冯国梁 制图人	门洞口	1500		1800		2100		2400			
3000		3000		3000		3000		3000		3000			
图名 GF4 钢质中条半玻防火门4												图集号 页次	88J13-4 24

2007/07/12

编制人 冯国梁 审核人 陶骏骥 制图人 冯国梁	3000		900		1000		1200		1500	
	2700		900		1000		1200		1500	
	2400		900		1000		1200		1500	
	2100		900		1000		1200		1500	
	1800		900		1000		1200		1500	
	1500		900		1000		1200		1500	

冯国梁 陶如璇 审核人 冯国梁 编制人	门洞口	1500					2000										
									1520GF5-1b	1520GF5-1a	1820GF5	2120GF5	2420GF5				
									2100								
											1521GF5-1b	1521GF5-1a	1821GF5	2121GF5	2421GF5		
											2400						
													1524GF5-1b	1524GF5-1a	1824GF5	2124GF5	2424GF5
2400																	
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图多 GF5 钢手侧各合破防小门 图集号 88J13-4

图名 GF5 钢质侧条全玻防火门 3

图集号 88J13-4
页次 27

2007107112

门洞口		1500		1800	2100	2400
2700						
3000						
3000						
		图名 GF5 钢质侧条全玻防火门4				图集号 88J13-4 页次 28

2007/07/12

编制人 冯国梁	审核人 陶朝璇	制图人 冯国梁	2000		900	1000	1200	1500	
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					2100	2400	2400		
					0921GF6b 0921GF6a	1021GF6b 1021GF6a	1221GF6b 1221GF6a	1221GF6-1b 1221GF6-1a	1521GF6
					0924GF6b 0924GF6a	1024GF6b 1024GF6a	1224GF6b 1224GF6a	1224GF6-1b 1224GF6-1a	1524GF6
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					图名 GF6 钢质中条全玻防火门 1				

2007/07/12
页次

	3000	2700	2700	900		1000		1200		1200		1500	
				850 40 800 40	880 40 800 40	980 40 900 40	980 40 900 40	1180 40 1100 40	1180 40 1100 40	1180 40 800 300 40	1180 40 300 800 40	1480 40 700 700 40	
图名	GF6 钢质中条全玻防火门2	图集号 88J13-4	页次 30	2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 420 160 420 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 270 160 270 1000	
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				0927GF61b	0927GF61a	1027GF61b	1027GF61a	1227GF61b	1227GF61a	1227GF61-1b	1227GF61-1a	1527GF61b	1527GF61a
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图名	GF6 钢质中条全玻防火门2	图集号 88J13-4	页次 30	2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 420 160 420 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 270 160 270 1000	
				0927GF6b	0927GF6a	1027GF6b	1027GF6a	1227GF6b	1227GF6a	1227GF6b	1227GF6a	1527GF6b	1527GF6a
				0927GF61b	0927GF61a	1027GF61b	1027GF61a	1227GF61b	1227GF61a	1227GF61-1b	1227GF61-1a	1527GF61b	1527GF61a
				0930GF6b	0930GF6a	1030GF6b	1030GF6a	1230GF6b	1230GF6a	1230GF6-1b	1230GF6-1a	1530GF6b	1530GF6a
图名	GF6 钢质中条全玻防火门2	图集号 88J13-4	页次 30	2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 420 160 420 1000		2990 40 2050 40 10 400 1440 200 320 160 320 1000		2990 40 2050 40 10 400 1440 200 270 160 270 1000	
				0927GF6b	0927GF6a	1027GF6b	1027GF6a	1227GF6b	1227GF6a	1227GF6b	1227GF6a	1527GF6b	1527GF6a
				0927GF61b	0927GF61a	1027GF61b	1027GF61a	1227GF61b	1227GF61a	1227GF61-1b	1227GF61-1a	1527GF61b	1527GF61a
				0930GF6b	0930GF6a	1030GF6b	1030GF6a	1230GF6b	1230GF6a	1230GF6-1b	1230GF6-1a	1530GF6b	1530GF6a

门洞口

2000

2100

2400

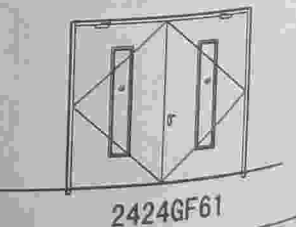
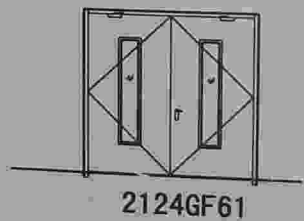
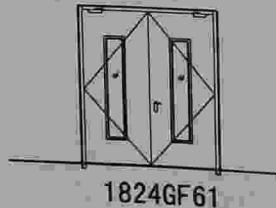
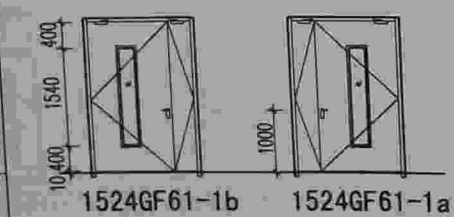
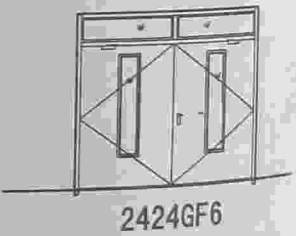
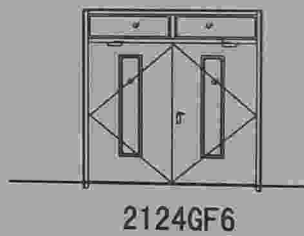
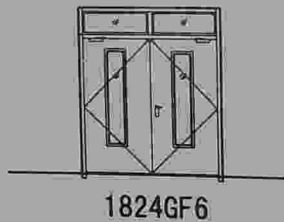
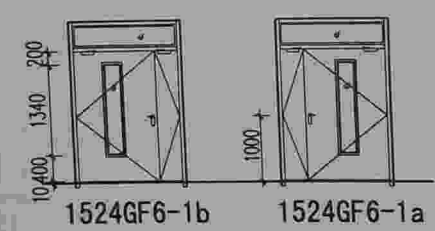
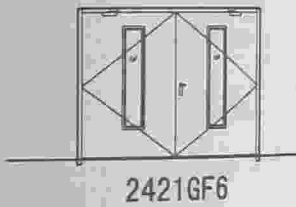
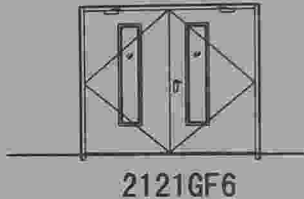
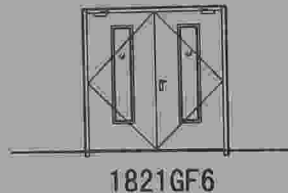
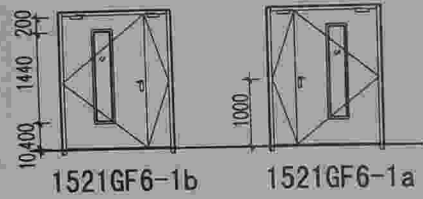
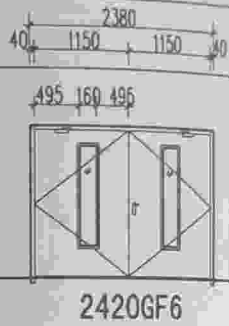
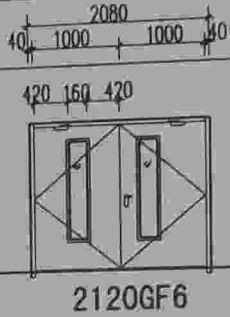
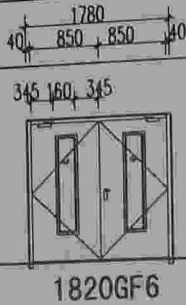
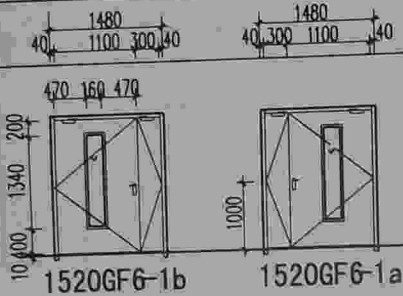
2400

1500

1800

2100

2400



图名 GF6钢质中条全玻防火门3

图集号 88J13-4

2007/11/12

门洞		1500	1800	2100	2400
2700	2700	1527GF6-1b 1527GF6-1a	1827GF6	2127GF6	2427GF6
	2700	1527GF61-1b 1527GF61-1a	1824GF61	2127GF61	2427GF61
3000	3000	1530GF6-1b 1530GF6-1a	1830GF6	2130GF6	2430GF6
	3000	1530GF61-1b 1530GF61-1a	1830GF61	2130GF61	2430GF61

图名 GF6 钢质中条全玻防火门 4

2007/07/12

门高		900		1000		1200		1500	
2000									
2100									
2400									

图名 GF7 钢质半玻防火门 1

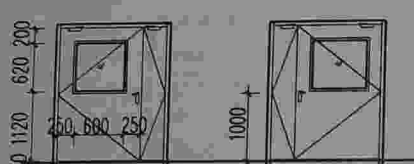
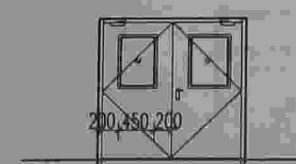
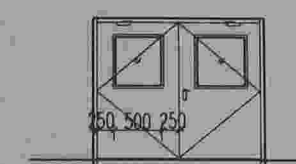
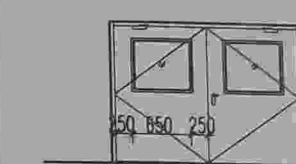
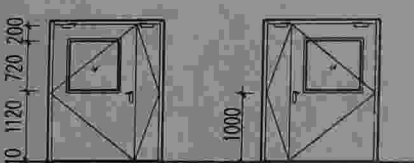
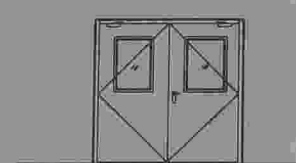
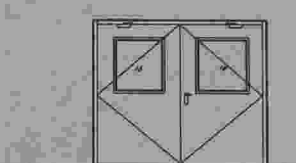
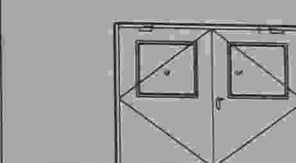
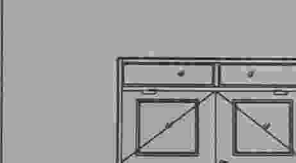
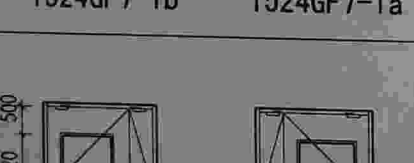
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2700	 0927GF7a	 1027GF7a	 1227GF7a	 1227GF7-1a	 1527GF71
3000	 0930GF7b	 1030GF7b	 1230GF7b	 1230GF7-1b	 1530GF7
3000	 0930GF7a	 1030GF7a	 1230GF7a	 1230GF7-1a	 1530GF71

图名 GF7钢质半玻防火门2

图号 88J13-4

页次 1

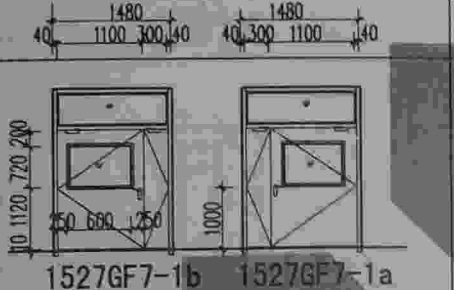
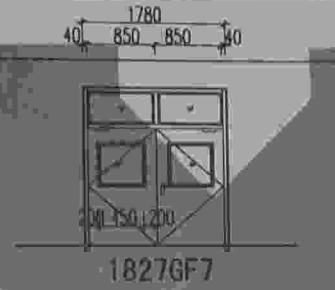
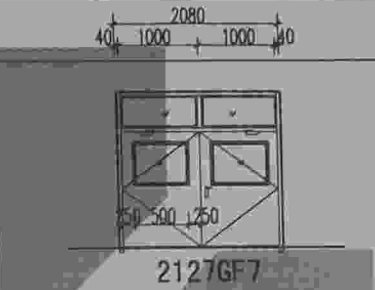
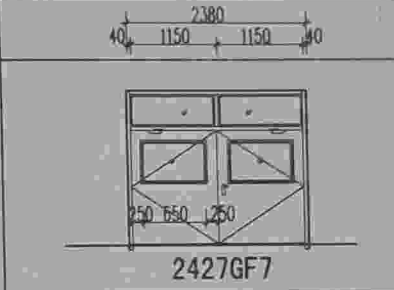
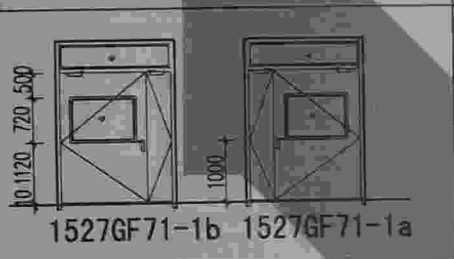
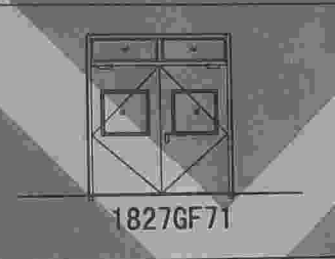
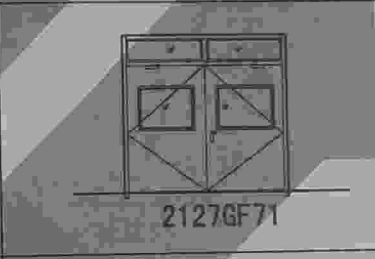
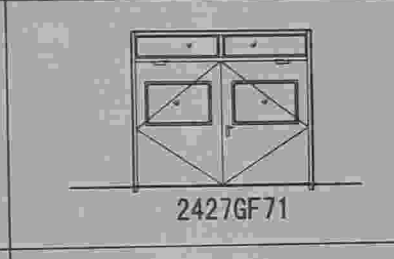
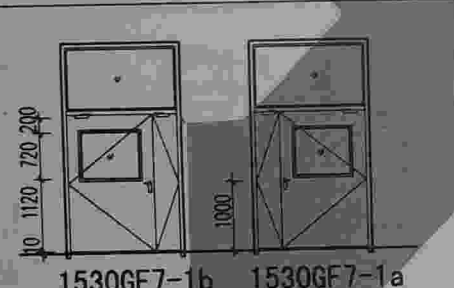
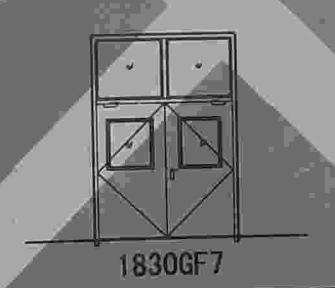
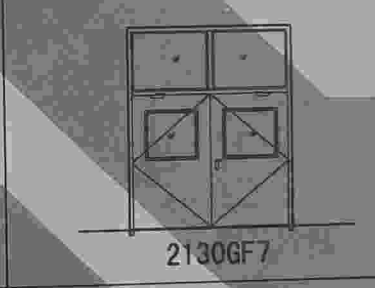
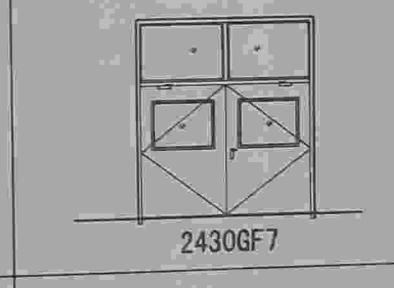
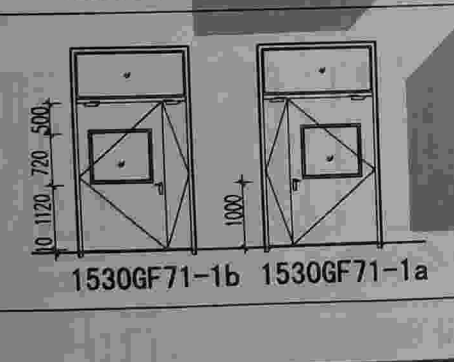
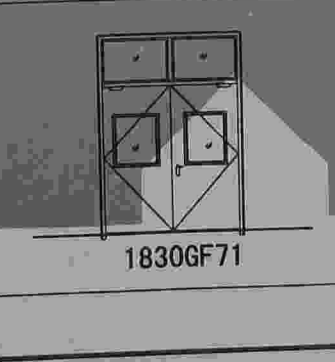
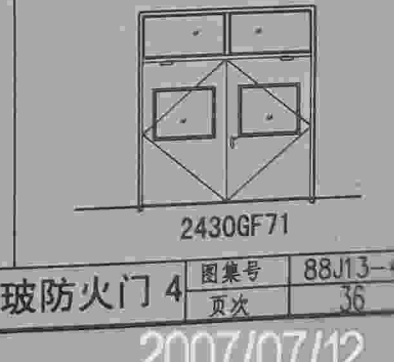
2007/07/11

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	2390 1950 40 160 40	 1524GF7-1b 1524GF7-1a	 1824GF7	 2124GF7	 2424GF7
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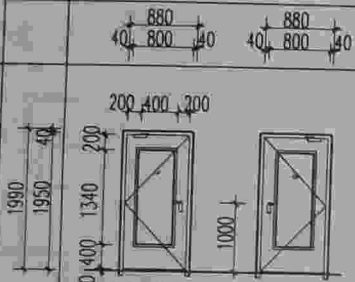
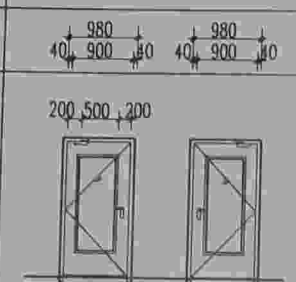
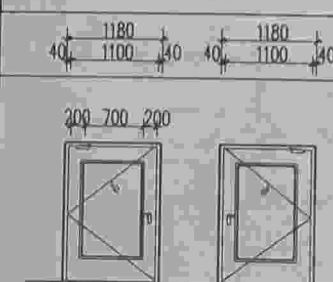
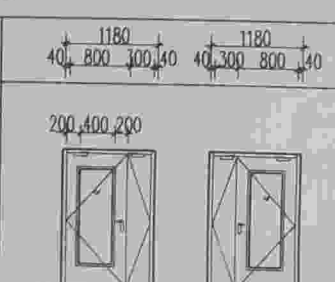
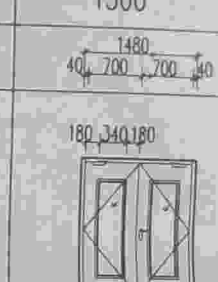
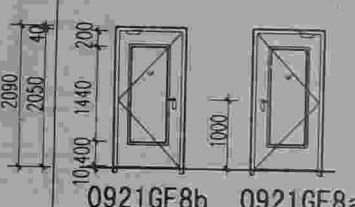
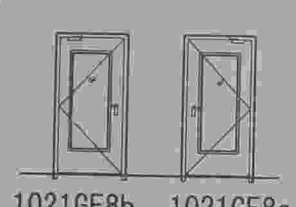
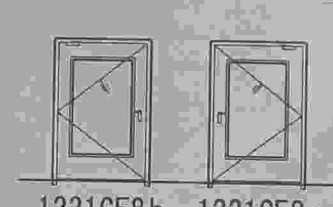
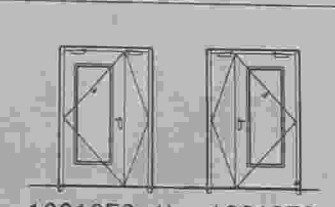
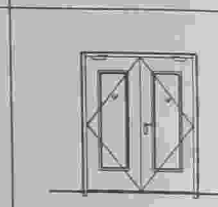
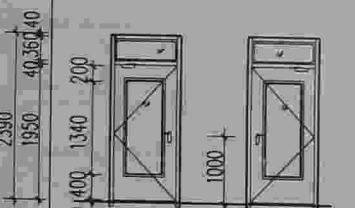
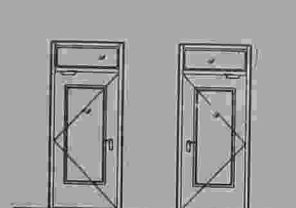
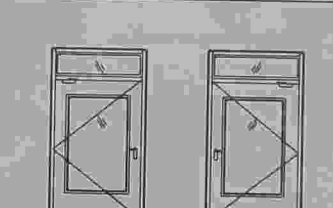
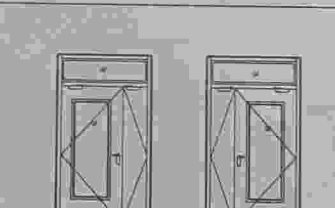
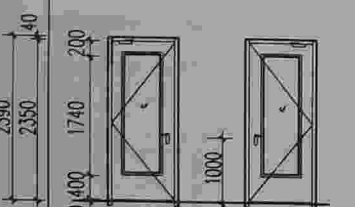
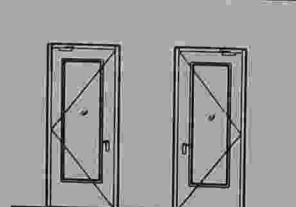
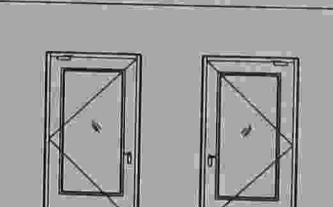
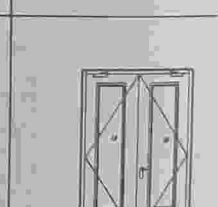
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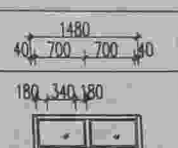
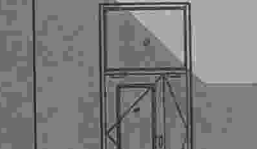
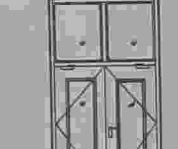
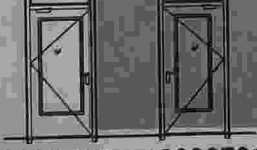
图集号 88J13-4

2007/07/12

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2700	 1527GF71-1b 1527GF71-1a	 1827GF71	 2127GF71	 2427GF71
3000	 1530GF7-1b 1530GF7-1a	 1830GF7	 2130GF7	 2430GF7
3000	 1530GF71-1b 1530GF71-1a	 1830GF71	 2130GF71	 2430GF71
图名 GF7钢质半玻防火门 4				
图集号 88J13-4				
页次 36				

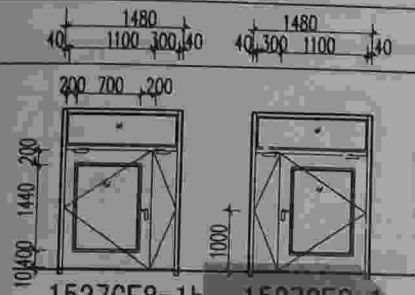
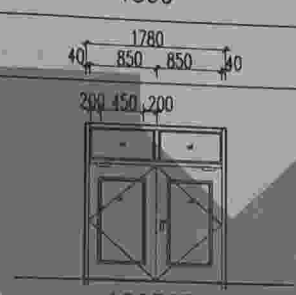
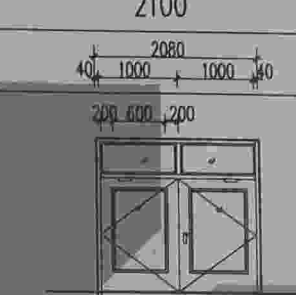
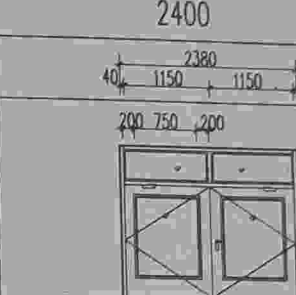
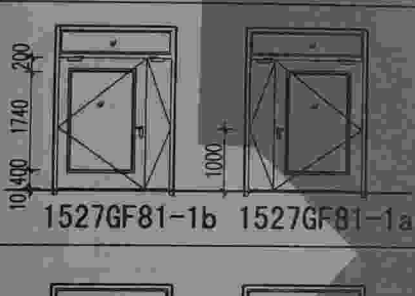
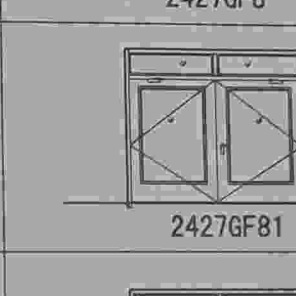
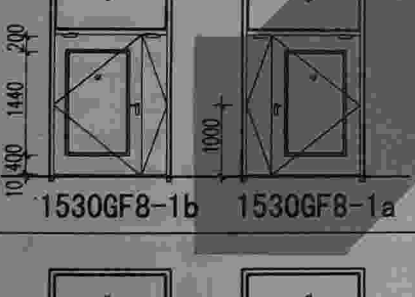
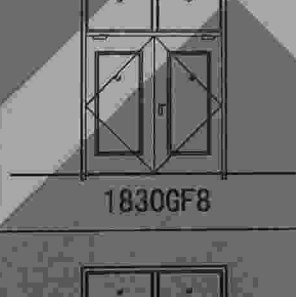
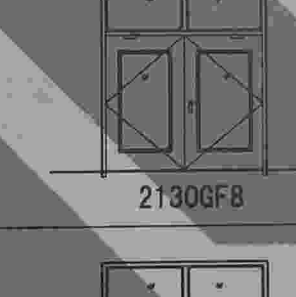
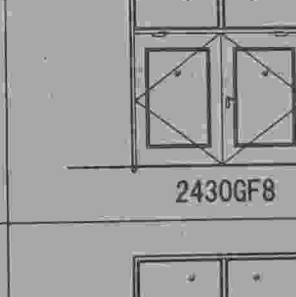
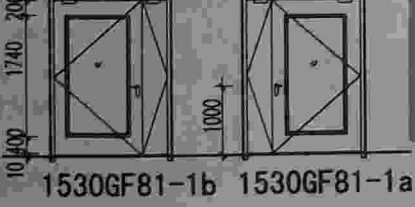
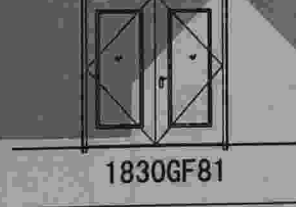
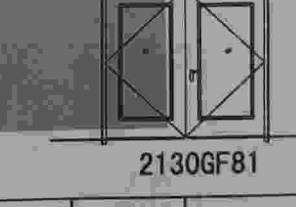
2007/07/12

编制人	冯国梁	审核人	陶国梁	制图人	冯国梁	门洞口	900	1000	1200		1500
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编制人	冯国梁	审核人	陶国梁	制图人	冯国梁	2100	 0921GF8b 0921GF8a	 1021GF8b 1021GF8a	 1221GF8b 1221GF8a	 1221GF8-1b 1221GF8-1a	 1521GF8
						2400	 0924GF8b 0924GF8a	 1024GF8b 1024GF8a	 1224GF8b 1224GF8a	 1224GF8-1b 1224GF8-1a	 1524GF8
编制人	冯国梁	审核人	陶国梁	制图人	冯国梁	2400	 0924GF81b 0924GF81a	 1024GF81b 1024GF81a	 1224GF81b 1224GF81a	 1224GF81-1b 1224GF81-1a	 1524GF81

冯国梁 陶驹骥 制图人 冯国梁 审核人	2700		900		1000		1200		1500			
												
												
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3000	2700											
			0927GF81b 0927GF81a		1027GF81b 1027GF81a		1227GF81b 1227GF81a		1227GF81-1b 1227GF81-1a		1527GF81	
	3000											
			0930GF8b 0930GF8a		1030GF8b 1030GF8a		1230GF8b 1230GF8a		1230GF8-1b 1230GF8-1a		1530GF8	
												
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图名 GF8钢质全玻防火门2										图集号 88J13-4		

2007/07/12

编制人 冯国梁 审核人 陶锦骥 制图人 冯国梁	2400 2390 2350 40 1740 10400	2400 2390 1950 40 1340 10400	2100 2090 2050 40 1440 10400	2000 1990 1950 40 1340 10400	1500 1480 1100 300 40 40 300 1100 40	1800 1780 850 850 40 40	2100 2080 1000 1000 40 40	2400 2380 1150 1150 40 40
2400 2390 2350 40 1740 10400	2400 2390 1950 40 1340 10400	2400 2390 1950 40 1340 10400	2100 2090 2050 40 1440 10400	2000 1990 1950 40 1340 10400	1500 1480 1100 300 40 40 300 1100 40	1800 1780 850 850 40 40	2100 2080 1000 1000 40 40	2400 2380 1150 1150 40 40
2400 2390 2350 40 1740 10400	2400 2390 1950 40 1340 10400	2400 2390 1950 40 1340 10400	2100 2090 2050 40 1440 10400	2000 1990 1950 40 1340 10400	1500 1480 1100 300 40 40 300 1100 40	1800 1780 850 850 40 40	2100 2080 1000 1000 40 40	2400 2380 1150 1150 40 40
2400 2390 2350 40 1740 10400	2400 2390 1950 40 1340 10400	2400 2390 1950 40 1340 10400	2100 2090 2050 40 1440 10400	2000 1990 1950 40 1340 10400	1500 1480 1100 300 40 40 300 1100 40	1800 1780 850 850 40 40	2100 2080 1000 1000 40 40	2400 2380 1150 1150 40 40

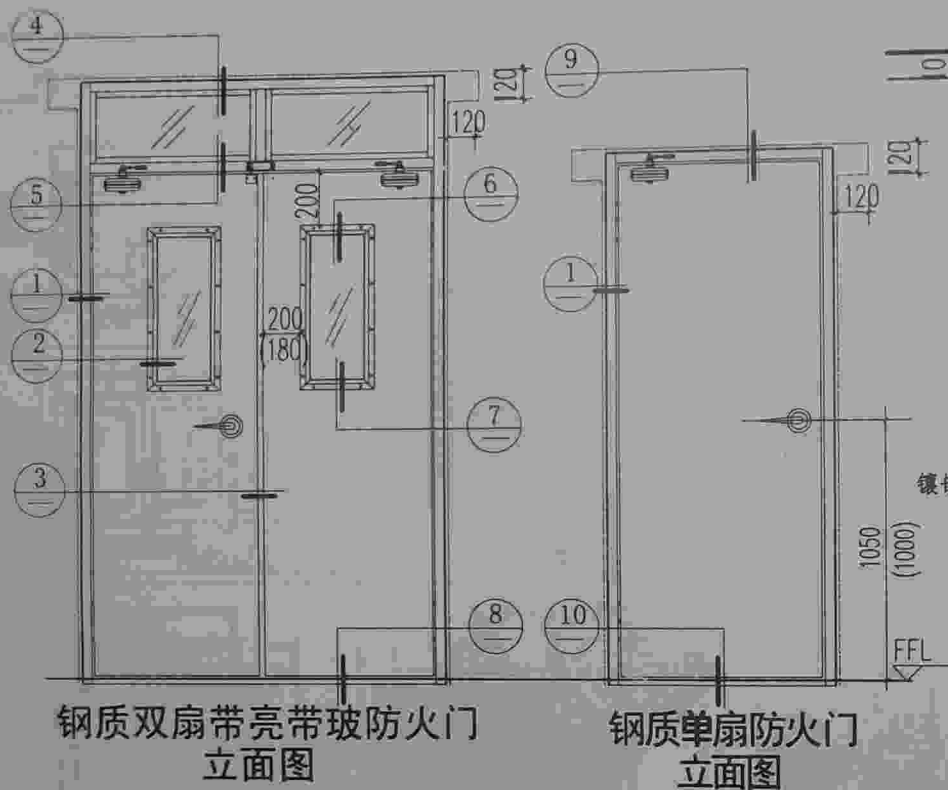
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	3000					

图名 GF8钢质全玻防火门4

图集号 88J13-4

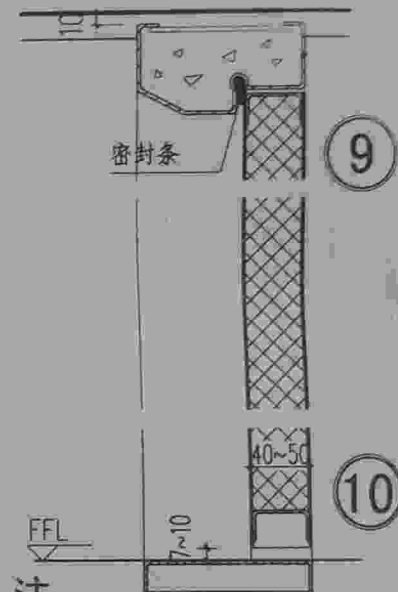
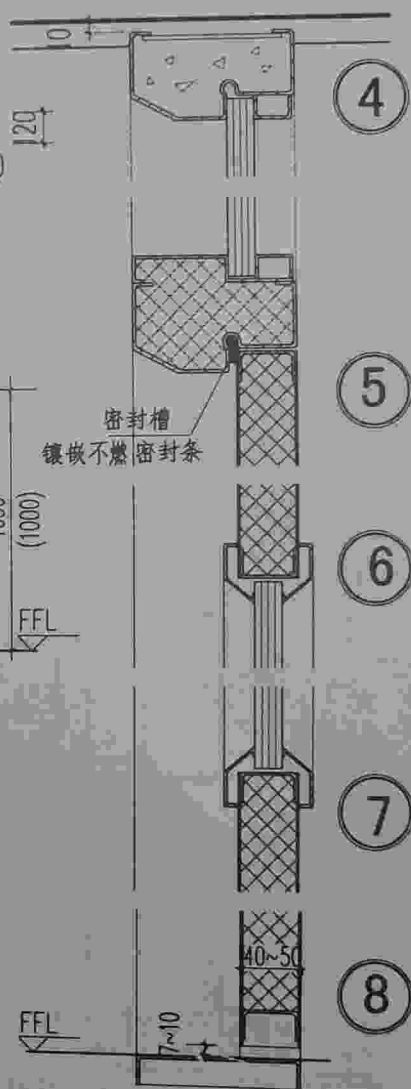
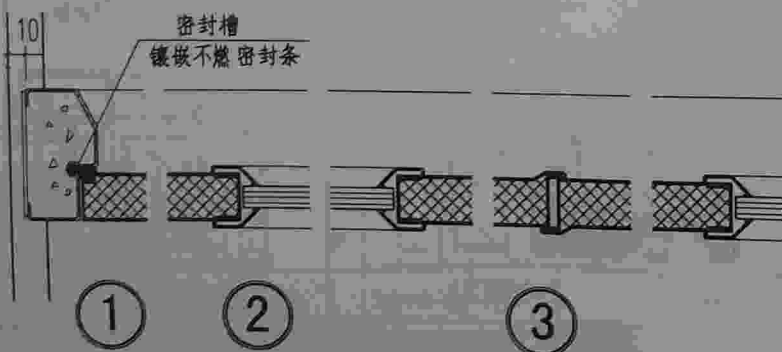
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2007/07/12



钢质双扇带亮带玻防火门
立面图

钢质单扇防火门
立面图



注:

1、耐火极限达到:

- 甲级 ----- 耐火极限 ≥ 1.2 小时;
- 乙级 ----- 耐火极限 ≥ 0.9 小时;
- 丙级 ----- 耐火极限 ≥ 0.6 小时;

2、门框、门扇面板均采用冷轧薄钢板, 门框钢板厚度为 1.2mm~1.5 mm, 且为一次辊压成型。

门扇面板厚度为 0.8~1.2mm, 内填硅酸铝纤维毡、岩棉等不燃性火材料。

3、防火锁、执手、铰链、闭门器等五金配件均为经国家固定灭火系统检测合格的产品。

4、门表面装饰可作喷塑、喷涂、木面效果或不锈钢面等。

5、玻璃为透明防火复合玻璃。

编制人 冯国梁 审核人 陶国梁 制图人 冯国梁

2000	 0620GF1b 0620GF1a	 0618GF1b 0618GF1a
2100	 0621GF1b 0621GF1a	 0619GF1b 0619GF1a
2000	 0614GF1b 0614GF1a	
2100	 0615GF1b 0615GF1a	

立面

立面

管道井检修门

1、管道井检修门耐火等级达到丙级，耐火极限>0.6小时。

2、门框、门扇面板均采用冷轧薄钢板，门框钢板厚度为1.5mm~2.0mm，且为一次辊压成型。

门扇面板厚度为1~1.2mm，内填硅酸铝纤维毡、岩棉等不燃性材料。

3、防火锁、铰链、闭门器等五金配件均为经国家固定灭火系统检测合格的产品。

4、门表面装饰可作喷塑、喷涂、木面效果等。

5、墙体与门框连接大样详P46。

编制人		冯国梁		审核人		陶朝霖		制图人		冯国梁		图名		GFH钢质防盗防火门(一)		图集号		88J13-4				
2000	900			0920GFHb 0920GFHa		1000				1020GFHb 1020GFHa		1100				1200						
				0921GFHb 0921GFHa		1000				1021GFHb 1021GFHa		1100				1121GFHb 1121GFHa		1200				1221GFHb 1221GFHa
	1200			1220-1GFHb 1220-1GFHa		1500				1520-1GFHb 1520-1GFHa		2000				2020GFH		2200				
				1221-1GFHb 1221-1GFHa		1500				1521-1GFHb 1521-1GFHa		2000				2021GFH		2200				2221GFH

洞口	1000		1500	
	1020GFS b	1020GFS a	1520GFS	
2000				
2100				
洞口	1800		2100	
	1820GFS	2120GFS	1821GFS	2121GFS
2000				
2100				



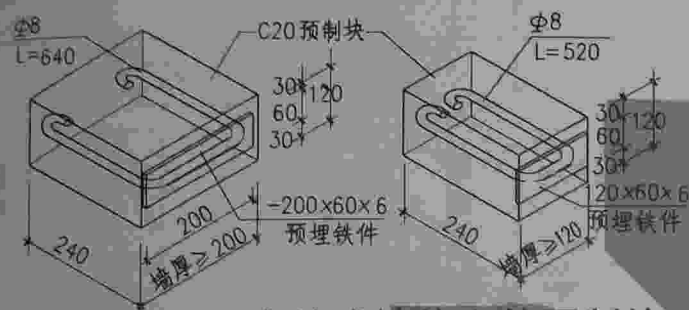
GFS 钢制防火隔声门

产品特点:在钢制防火门结构的基础上,通过附加的缝隙密封装置满足隔声功能。(门底部附加门槛、门板底部加配密封条。)要求隔声量达到33dB~39dB,使门体具有隔声、防火性能。

配置防火锁、执手、闭门器等五金配件。

耐火极限		隔声量
甲级	乙级	$R_w=33\sim39\text{dB}$
$\geq 1.2\text{h}$	$\geq 0.9\text{h}$	

图名 GFS 钢质防火隔声门 200710712

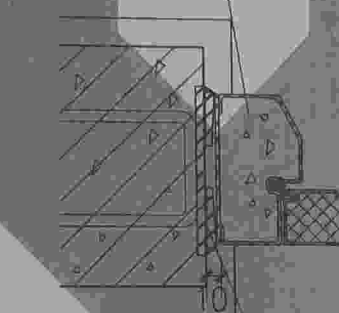


砌筑式墙体上的预制块

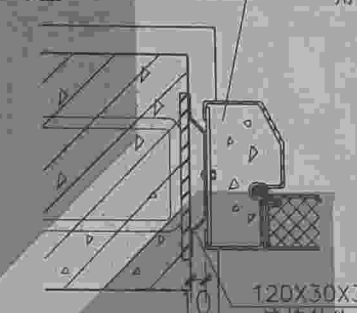


现浇墙体上的预埋铁件

内填 1:2:5 水泥珍珠岩砂浆
或 1:3 水泥砂浆由施工单位
现场灌注



1



2

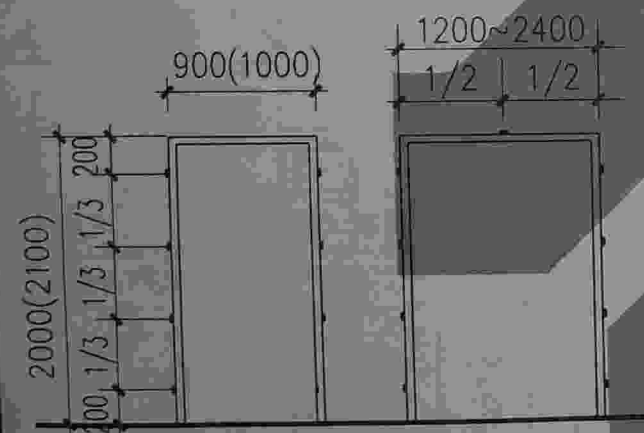
Φ8 与埋件钢板及门框铁脚板
焊牢(门框与洞口的间隙
用 1:2 水泥砂浆填实)



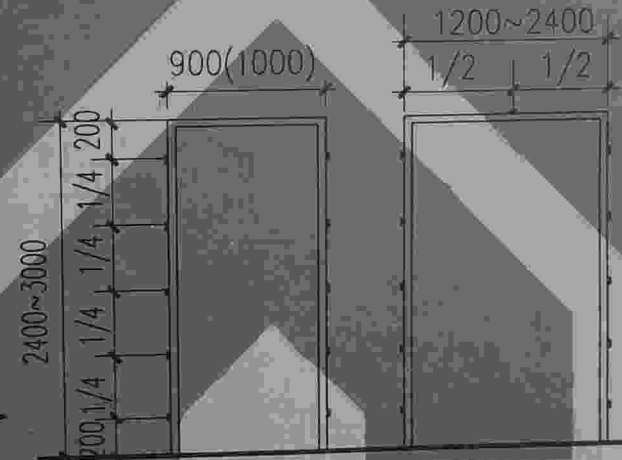
3

墙体与门框连接大样
(墙体上有预埋铁件)

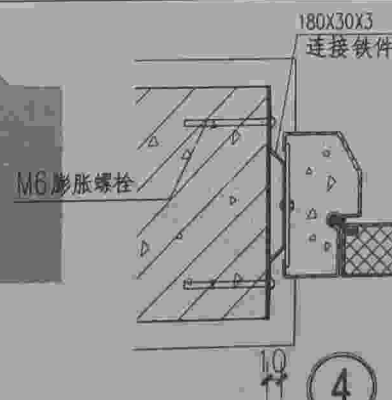
双面用钢板楔紧后
与埋件钢板及门框铁脚板
焊牢(门框与洞口的间隙
用 1:2 水泥砂浆填实)



门框铁脚板位置图



门框铁脚板位置图



4

墙体与门框连接大样
(墙体上无预埋铁件)

说明: 预埋铁件必须用低碳钢制作。
预制块必须与墙体同时砌筑不得后填。

图名 门框安装示意图

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冯国梁 制图人 冯国梁 审核人 冯国梁 编制人	2400	2500						
	2700	2500						
	2400	3100						
2700	3100							

图名	GF-P 钢质防火移门
页次	47

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防火卷帘编制说明

一、适用范围

(1) 钢质防火卷帘门和无机复合防火卷帘门适用于居住建筑、公共建筑和工业建筑的建筑防火分隔、防火分区及需要设置防火卷帘门的场所。

(2) 本图集仅供工程设计人员设计参考。

二、防火卷帘应符合有关规范和标准

1 “建筑设计防火规范” GBJ16-87(2001)

2 “高层建筑设计防火规范” GB50045-95(2001)

3 “钢质防火卷帘通用技术条件” GB14102-93

4 “门和卷帘的耐火试验方法” GB/T7633-87

5 “无机复合防火卷帘”企业标准 Q/HDCCM002-2002 (HDQ0578-2002)

三、防火卷帘分类编号

防火卷帘按卷帘的材质区分两大类

钢质防火卷帘	(1) 钢质防火卷帘	GFJ1
	(2) 帘中门钢质防火卷帘	GFJ2
	(3) 水喷雾钢质防火卷帘	GFJ3
	(4) 带平开小门钢质防火卷帘	GFJ4
	(5) 侧向钢质防火卷帘	GFJ5
无机复合防火卷帘	(6) 平卧型钢质防火卷帘	GFJ6
	(7) 无机复合单轨防火卷帘	FFJ1
	(8) 无机复合双轨防火卷帘	FFJ2

四、防火卷帘的功能、技术指标

钢质防火卷帘门和无机复合防火卷帘门可防火、防烟、防风、防盗，可与温感、烟感报警系统、水幕喷淋系统等配套使用。遇有火情能自动

控制门体下降，并能中停 1~10 分钟（距地 1.5M）供人员紧急疏散，而后门体继续下降关闭。门体内外设有紧急提升按钮，必要时可将门体升高到中停位置继续疏散人员，按确定的延时时间门体自动降落关闭，同时也可实现远程集中控制，并兼有手动自动启闭功能。

防火卷帘技术指标

类别 技术指标	钢质防火卷帘 *				帘中门 钢质防火卷帘	水喷雾 钢质防火卷帘	带平开小门 钢质防火卷帘	侧向钢质 防火卷帘	平卧型 钢质防火卷帘	无机复合 单防火卷帘	无机复合 双防火卷帘
代号	GFJ 1				GFJ 2	GFJ 3	GFJ 4	GFJ 5	GFJ 6	FFJ 1	FFJ 2
防火等级	F1	F2	F3	F4	F4	F4	F4	F4	F4	F3	F5(特级)
耐火极限	1.5(H)	2.0(H)	2.5(H)	3.0(H)	3.0(H)	3.0(H)	3.0(H)	3.0(H)	3.0(H)	2.5(H)	4.0(H)
耐风压强度	490.3pa(50kg/m ²)										
	784.5pa(80kg/m ²)										
	1176.8pa(120kg/m ²)										
漏烟量 (20pa压差)	0.2 m ³ /m ² min										

* 防火等级 F1、F2——单片钢质防火卷帘。

防火等级 F3、F4——复合钢质防火卷帘。

* 水喷雾钢质防火卷帘适用于不设自动水幕喷淋系统的建筑。

* 耐火极限——按 GB7633 进行耐火性能试验，从受火作用起到背火面热辐射强度超过临界热辐射强度规定值时止（或帘板面窜火时止）的这段时间。

五、防火卷帘门洞口及门的编号

洞口宽度——XXXX GFJX (X) X
 洞口高度——
 防火等级——
 钢质防火卷帘门——
 门代号数

Z: 中装(样中间装)

C: 侧装(样侧按装)

洞口宽度——XXXX FFJX (X) X
 洞口高度——
 防火等级——
 无机复合防火卷帘门——
 门代号数

Z: 中装(样中间装)

C: 侧装(样侧按装)

图名

防火卷帘编制说明(一)

图集号

88J13-4

2007/07/12

零部件名称	材料厚度	
	钢质防火卷帘	无机复合防火卷帘
帘板	1.2 mm ~ 2.0 mm	1.0 mm ~ 2.0 mm
帘面		1.0 mm ~ 2.0 mm
帘面夹板		≥ 2.0 mm
座板	≥ 3.0 mm	≥ 3.0 mm
导轨	掩埋型 1.5 mm ~ 2.5 mm	掩埋型 1.5 mm ~ 2.5 mm
	外露型 ≥ 3.0 mm	外露型 ≥ 3.0 mm
门楣	1.0 mm ~ 2.0 mm	1.0 mm ~ 2.0 mm
箱体	0.8 mm ~ 1.0 mm	0.8 mm ~ 1.0 mm

序号	洞口尺寸 宽 B 高 H		电动机机构		水幕喷头	卷帘起闭 平均噪声
	B(mm)	H(mm)	电动机功率 KW	门体重量 kg	数量	
1	1500	<4000	0.55	500	1	≤50dB
2	2500	<4000	0.55	500	2	
3	4000	<4000	0.55	500	3	
4	4500	<4000	0.75	1000	4	
5	6000	<5000	0.75	1000	5	≤60dB
6	7500	<5000	1.10	1500	6	
7	7500-12000	<7000	1.50	2000	6-8	≤70dB

自动控制的电系统线路不可暴露 应埋入墙内。

防火卷帘除 要求钢制帘板作镀锌或喷塑处理外, 其它所有钢制构件必须 涂防锈底漆。

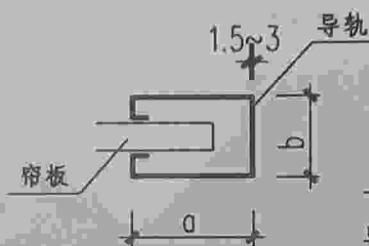
防火卷帘与砌筑墙体的联接可预埋钢板焊牢或预埋螺栓固定, 与现浇墙体联接也可膨胀螺栓固定, 其锚固强度均应满足设计要求, 生产厂家应提供防火卷帘与墙体联接的设计图。

防火卷帘与墙体的联接

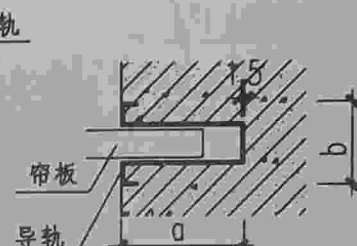
洞口宽度	新建建筑	已建建筑	
		现浇墙体	砌筑墙体
4M以下	支架与预埋钢板焊牢 也可用M14膨胀螺栓	支架用穿墙螺栓与墙体固定 也可用膨胀螺栓固定(均M14)	支架用穿墙螺栓 固定(螺栓M14)
4~6M	支架与预埋钢板焊牢 也可用M16膨胀螺栓	支架用穿墙螺栓与墙体固定 也可用膨胀螺栓固定(均M16)	
6M以上	支架与预埋钢板焊牢		

导轨规格尺寸

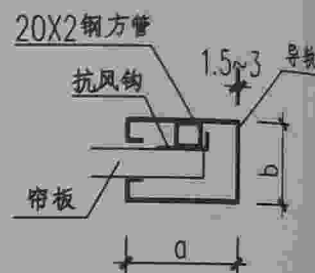
洞口有效通行宽度(W)	导轨深度 a	导轨宽度 b	帘板嵌入导轨深度
(W) ≤ 3000	75mm	50~70mm	45mm
3000 < (W) ≤ 5000	80mm		50mm
5000 < (W) ≤ 9000	90mm		60mm
9000 < (W) ≤ 12000	120mm		80mm
12000 < (W) ≤ 18000	150mm		100mm



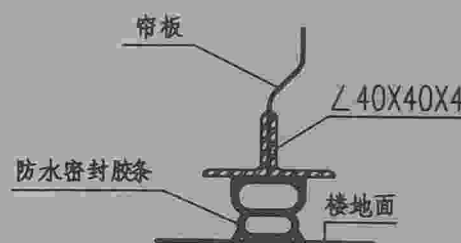
① 内翻边导轨



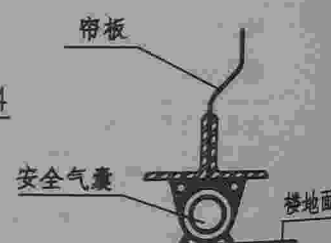
② 掩埋型外翻边导轨



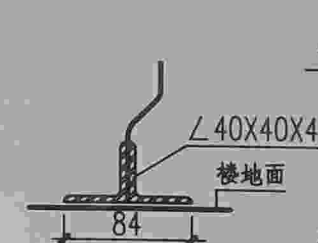
③ 抗风导轨



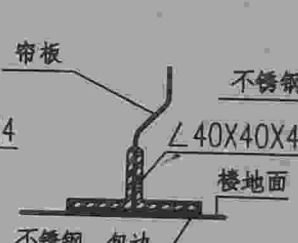
④ 防水密封胶条末尾板



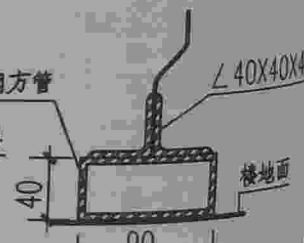
⑤ 安全气囊末尾板



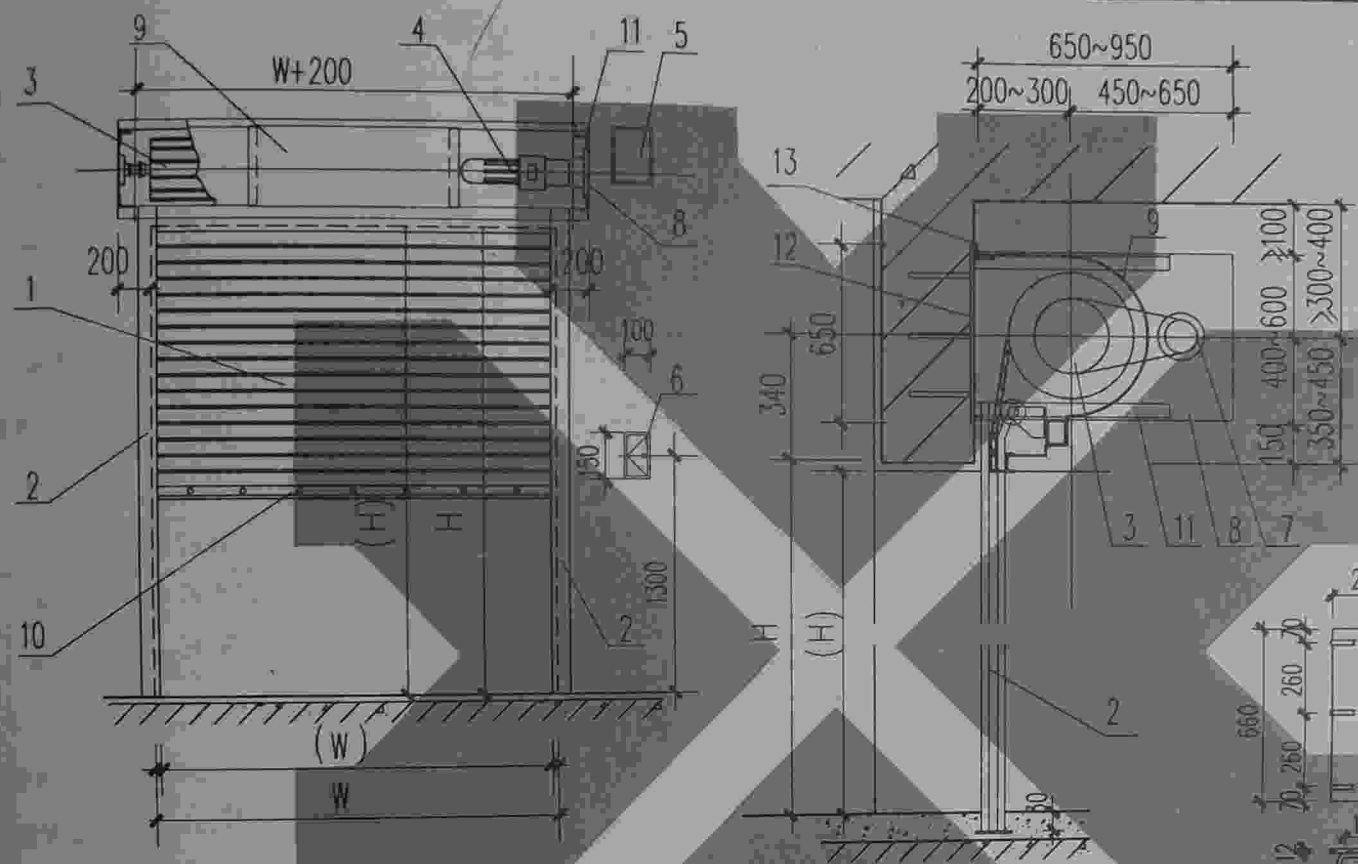
⑥ 角钢末尾板
(不锈钢或镀锌角钢)



⑦ 不锈钢包边末尾板

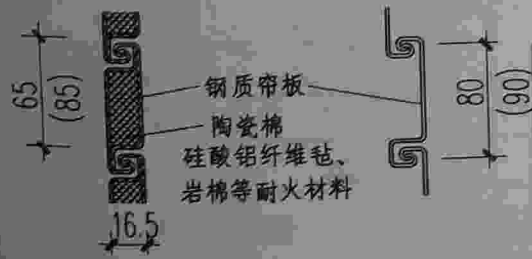


⑧ 不锈钢方管末尾板

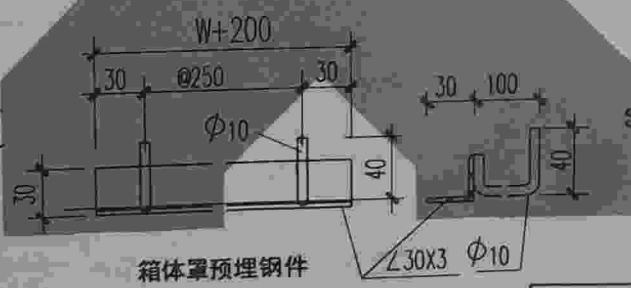


钢质防火卷帘门立面示意图

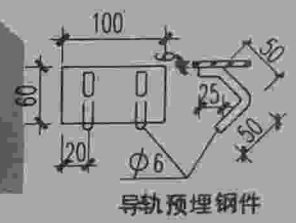
- 1 钢质帘板
- 2 导轨
- 3 卷筒轴
- 4 开闭机
- 5 电器箱
- 6 电器控制按钮盒
- 7 传动轮
- 8 座板
- 9 箱体罩
- 10 末尾板
- 11 支架
- 12 支架预埋钢件
- 13 箱体罩预埋钢件



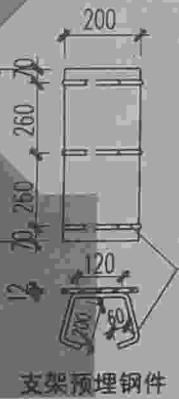
钢质复合帘板截面 单片钢质帘板截面



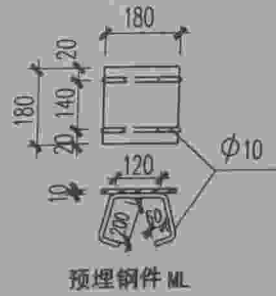
箱体罩预埋钢件



导轨预埋钢件



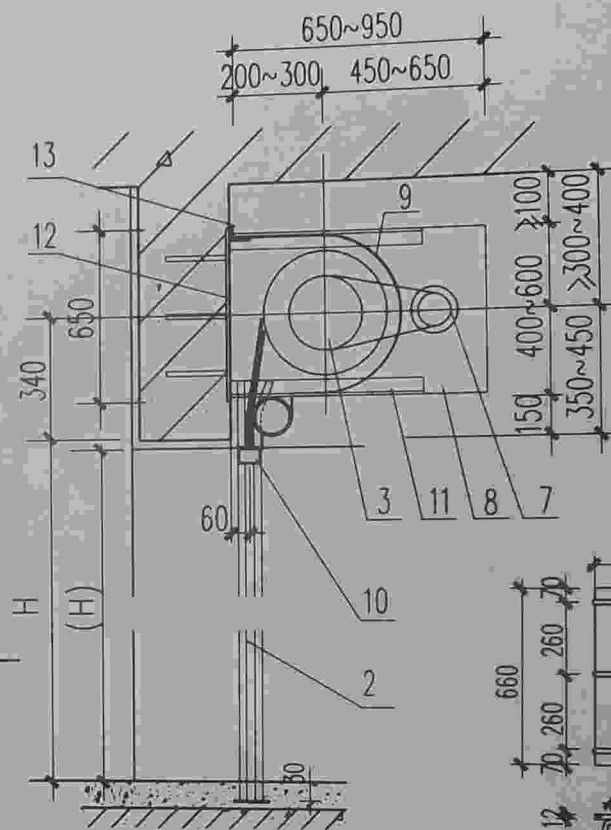
支架预埋钢件



预埋钢件 ML

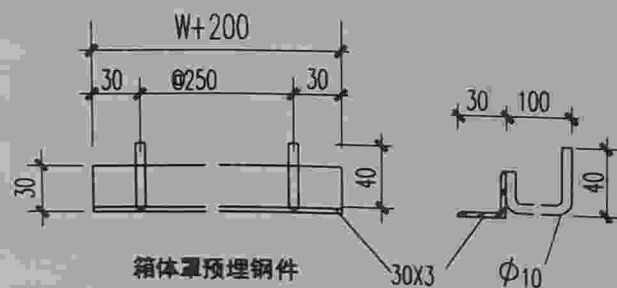
图名	钢质防火卷帘门构成图	图集号	88J13-4
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2007/07/12



-
- Technical drawing of a rectangular box. The main view shows a box with a length of 660, a width of 200, and a height of 120. The height is divided into three equal sections of 260 each. A circular detail is shown at the bottom right, with a diameter of 200 and a radius of 120.

支架预埋钢件



导轨预埋钢板

导轨预埋钢件

GFJ1 钢质防火卷帘选用表(一)

卷帘高度H	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2100	2121GFJ1(X)Z	2421GFJ1(X)Z	2721GFJ1(X)Z	3021GFJ1(X)Z	3321GFJ1(X)Z	3621GFJ1(X)Z	3921GFJ1(X)Z	4221GFJ1(X)Z	4521GFJ1(X)Z	4821GFJ1(X)Z	5121GFJ1(X)Z	5421GFJ1(X)Z
2400	2124GFJ1(X)Z	2424GFJ1(X)Z	2724GFJ1(X)Z	3024GFJ1(X)Z	3324GFJ1(X)Z	3624GFJ1(X)Z	3924GFJ1(X)Z	4224GFJ1(X)Z	4524GFJ1(X)Z	4824GFJ1(X)Z	5124GFJ1(X)Z	5424GFJ1(X)Z
2700	2127GFJ1(X)Z	2427GFJ1(X)Z	2727GFJ1(X)Z	3027GFJ1(X)Z	3327GFJ1(X)Z	3627GFJ1(X)Z	3927GFJ1(X)Z	4227GFJ1(X)Z	4527GFJ1(X)Z	4827GFJ1(X)Z	5127GFJ1(X)Z	5427GFJ1(X)Z
	2127GFJ1(X)C	2427GFJ1(X)C	2727GFJ1(X)C	3027GFJ1(X)C	3327GFJ1(X)C	3627GFJ1(X)C	3927GFJ1(X)C	4227GFJ1(X)C	4527GFJ1(X)C	4827GFJ1(X)C	5127GFJ1(X)C	5427GFJ1(X)C
3000	2130GFJ1(X)Z	2430GFJ1(X)Z	2730GFJ1(X)Z	3030GFJ1(X)Z	3330GFJ1(X)Z	3630GFJ1(X)Z	3930GFJ1(X)Z	4230GFJ1(X)Z	4530GFJ1(X)Z	4830GFJ1(X)Z	5130GFJ1(X)Z	5430GFJ1(X)Z
	2130GFJ1(X)C	2430GFJ1(X)C	2730GFJ1(X)C	3030GFJ1(X)C	3330GFJ1(X)C	3630GFJ1(X)C	3930GFJ1(X)C	4230GFJ1(X)C	4530GFJ1(X)C	4830GFJ1(X)C	5130GFJ1(X)C	5430GFJ1(X)C
3300	2133GFJ1(X)Z	2433GFJ1(X)Z	2733GFJ1(X)Z	3033GFJ1(X)Z	3333GFJ1(X)Z	3633GFJ1(X)Z	3933GFJ1(X)Z	4233GFJ1(X)Z	4533GFJ1(X)Z	4833GFJ1(X)Z	5133GFJ1(X)Z	5433GFJ1(X)Z
	2133GFJ1(X)C	2433GFJ1(X)C	2733GFJ1(X)C	3033GFJ1(X)C	3333GFJ1(X)C	3633GFJ1(X)C	3933GFJ1(X)C	4233GFJ1(X)C	4533GFJ1(X)C	4833GFJ1(X)C	5133GFJ1(X)C	5433GFJ1(X)C
3600					3336GFJ1(X)Z	3636GFJ1(X)Z	3936GFJ1(X)Z	4236GFJ1(X)Z	4536GFJ1(X)Z	4836GFJ1(X)Z	5136GFJ1(X)Z	5436GFJ1(X)Z
					3336GFJ1(X)C	3636GFJ1(X)C	3936GFJ1(X)C	4236GFJ1(X)C	4536GFJ1(X)C	4836GFJ1(X)C	5136GFJ1(X)C	5436GFJ1(X)C
3900							3939GFJ1(X)Z	4239GFJ1(X)Z	4539GFJ1(X)Z	4839GFJ1(X)Z	5139GFJ1(X)Z	5439GFJ1(X)Z
							3939GFJ1(X)C	4239GFJ1(X)C	4539GFJ1(X)C	4839GFJ1(X)C	5139GFJ1(X)C	5439GFJ1(X)C
4200								4242GFJ1(X)Z	4542GFJ1(X)Z	4842GFJ1(X)Z	5142GFJ1(X)Z	5442GFJ1(X)Z
								4242GFJ1(X)C	4542GFJ1(X)C	4842GFJ1(X)C	5142GFJ1(X)C	5442GFJ1(X)C
4500									4545GFJ1(X)Z	4845GFJ1(X)Z	5145GFJ1(X)Z	5445GFJ1(X)Z
									4545GFJ1(X)C	4845GFJ1(X)C	5145GFJ1(X)C	5445GFJ1(X)C
4800										4848GFJ1(X)Z	5148GFJ1(X)Z	5448GFJ1(X)Z
										4848GFJ1(X)C	5148GFJ1(X)C	5448GFJ1(X)C
5100											5151GFJ1(X)Z	5451GFJ1(X)Z
											5151GFJ1(X)C	5451GFJ1(X)C

(X) — 防火等级

C — 中装

Z — 侧装

图名

GFJ1 钢质防火卷帘选用表(一)

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GFJ1 钢质防火卷帘选用表(二)

冯国梁

制图人

陶望骥

审核人

冯国梁

编制人

洞宽W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
洞高H												
2100	5721GFJ1(X)Z	6021GFJ1(X)Z	6321GFJ1(X)Z	6621GFJ1(X)Z	6921GFJ1(X)Z	7221GFJ1(X)Z						
2400	5724GFJ1(X)Z	6024GFJ1(X)Z	6324GFJ1(X)Z	6624GFJ1(X)Z	6924GFJ1(X)Z	7224GFJ1(X)Z	7524GFJ1(X)Z	7824GFJ1(X)Z	8124GFJ1(X)Z	8424GFJ1(X)Z	8724GFJ1(X)Z	9024GFJ1(X)Z
2700	5727GFJ1(X)Z	6027GFJ1(X)Z	6327GFJ1(X)Z	6627GFJ1(X)Z	6927GFJ1(X)Z	7227GFJ1(X)Z	7527GFJ1(X)Z	7827GFJ1(X)Z	8127GFJ1(X)Z	8427GFJ1(X)Z	8727GFJ1(X)Z	9027GFJ1(X)Z
3000	5730GFJ1(X)Z	6030GFJ1(X)Z	6330GFJ1(X)Z	6630GFJ1(X)Z	6930GFJ1(X)Z	7230GFJ1(X)Z	7530GFJ1(X)Z	7830GFJ1(X)Z	8130GFJ1(X)Z	8430GFJ1(X)Z	8730GFJ1(X)Z	9030GFJ1(X)Z
3300	5733GFJ1(X)Z	6033GFJ1(X)Z	6333GFJ1(X)Z	6633GFJ1(X)Z	6933GFJ1(X)Z	7233GFJ1(X)Z	7533GFJ1(X)Z	7833GFJ1(X)Z	8133GFJ1(X)Z	8433GFJ1(X)Z	8733GFJ1(X)Z	9033GFJ1(X)Z
3600	5736GFJ1(X)Z	6036GFJ1(X)Z	6336GFJ1(X)Z	6636GFJ1(X)Z	6936GFJ1(X)Z	7236GFJ1(X)Z	7536GFJ1(X)Z	7836GFJ1(X)Z	8136GFJ1(X)Z	8436GFJ1(X)Z	8736GFJ1(X)Z	9036GFJ1(X)Z
3900	5739GFJ1(X)Z	6039GFJ1(X)Z	6339GFJ1(X)Z	6639GFJ1(X)Z	6939GFJ1(X)Z	7239GFJ1(X)Z	7539GFJ1(X)Z	7839GFJ1(X)Z	8139GFJ1(X)Z	8439GFJ1(X)Z	8739GFJ1(X)Z	9039GFJ1(X)Z
4200	5742GFJ1(X)Z	6042GFJ1(X)Z	6342GFJ1(X)Z	6642GFJ1(X)Z	6942GFJ1(X)Z	7242GFJ1(X)Z	7542GFJ1(X)Z	7842GFJ1(X)Z	8142GFJ1(X)Z	8442GFJ1(X)Z	8742GFJ1(X)Z	9042GFJ1(X)Z
4500	5745GFJ1(X)Z	6045GFJ1(X)Z	6345GFJ1(X)Z	6645GFJ1(X)Z	6945GFJ1(X)Z	7245GFJ1(X)Z	7545GFJ1(X)Z	7845GFJ1(X)Z	8145GFJ1(X)Z	8445GFJ1(X)Z	8745GFJ1(X)Z	9045GFJ1(X)Z
4800	5748GFJ1(X)Z	6048GFJ1(X)Z	6348GFJ1(X)Z	6648GFJ1(X)Z	6948GFJ1(X)Z	7248GFJ1(X)Z	7548GFJ1(X)Z	7848GFJ1(X)Z	8148GFJ1(X)Z	8448GFJ1(X)Z	8748GFJ1(X)Z	9048GFJ1(X)Z
5100	5751GFJ1(X)Z	6051GFJ1(X)Z	6351GFJ1(X)Z	6651GFJ1(X)Z	6951GFJ1(X)Z	7251GFJ1(X)Z	7551GFJ1(X)Z	7851GFJ1(X)Z	8151GFJ1(X)Z	8451GFJ1(X)Z	8751GFJ1(X)Z	9051GFJ1(X)Z

(X) — 防火等级

C — 中装 Z — 侧装

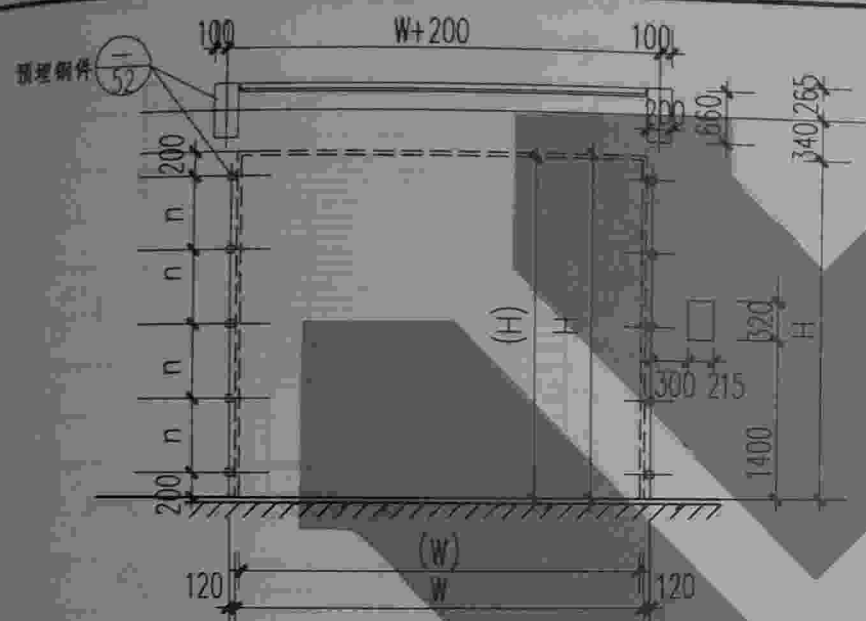
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GFJ1 钢质防火卷帘选用表

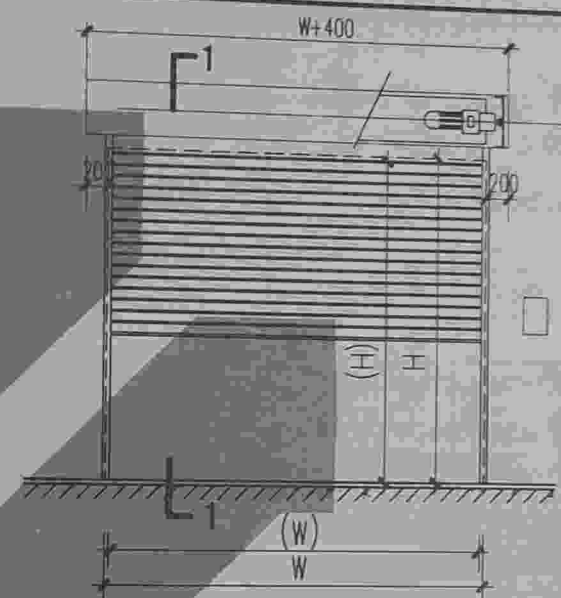
2007/07/12

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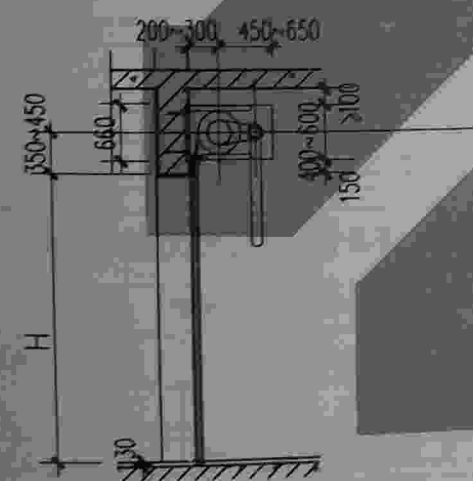
设计人 审核人 制图人 日期



GFJ1 钢质(侧装)防火卷帘门洞口预埋钢位置图



GFJ1 钢质(侧装)防火卷帘立面图



1-1 剖面

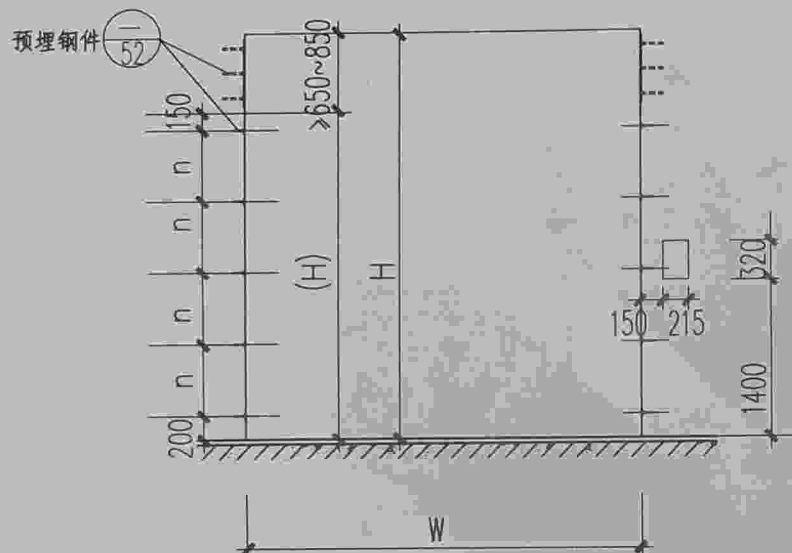


GFJ1 钢质(侧装)防火卷帘平面图

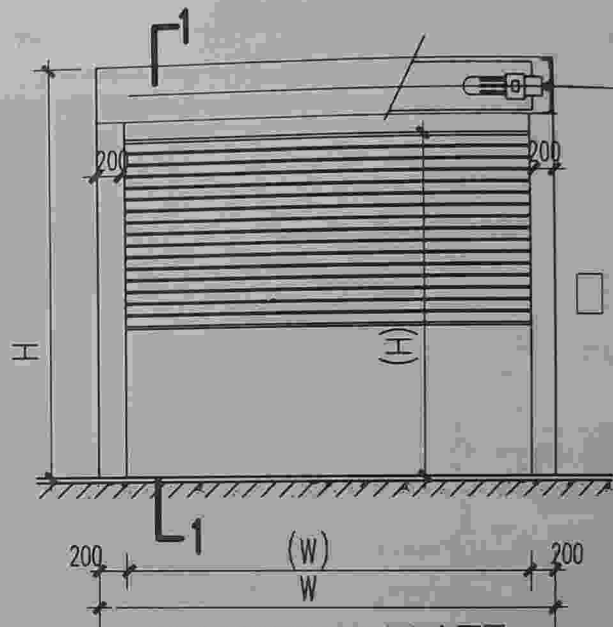
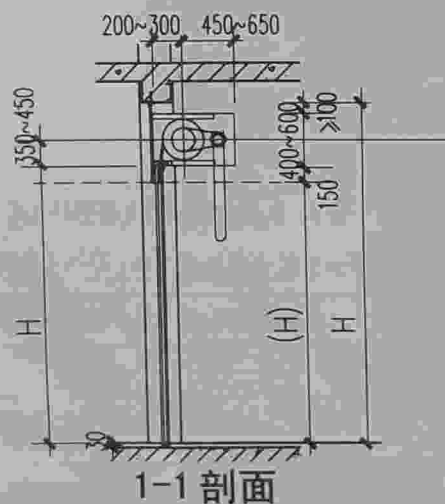
钢质防火卷帘需附加水幕喷淋系统保护

	单片钢质防火卷帘		复合钢质防火卷帘	
防火等级	F1	F2	F3	F4
耐火极限	≥15小时	≥20小时	≥25小时	≥30小时

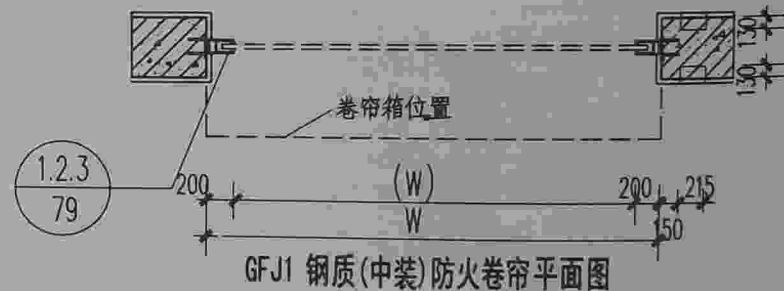
2007/07/12



GFJ1 钢质(中装)防火卷帘门洞口预埋铁位置图



GFJ1 钢质(中装)防火卷帘立面图



钢质防火卷帘需附加水幕喷淋系统保护

	单片钢质防火卷帘		复合钢质防火卷帘	
防火等级	F1	F2	F3	F4
耐火极限	≥1.5小时	≥2.0小时	≥2.5小时	≥3.0小时

GFJ2 帘中门钢质防火卷帘选用表(一)

帘中门	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2100	2721GFJ2(X)Z	3021GFJ2(X)Z	3321GFJ2(X)Z	3621GFJ2(X)Z	3921GFJ2(X)Z	4221GFJ2(X)Z	4521GFJ2(X)Z	4821GFJ2(X)Z	5121GFJ1(X)Z	5421GFJ1(X)Z
2400	2724GFJ2(X)Z	3024GFJ2(X)Z	3324GFJ2(X)Z	3624GFJ2(X)Z	3924GFJ2(X)Z	4224GFJ2(X)Z	4524GFJ2(X)Z	4824GFJ2(X)Z	5124GFJ1(X)Z	5424GFJ1(X)Z
2700	2727GFJ2(X)Z	3027GFJ2(X)Z	3327GFJ2(X)Z	3627GFJ2(X)Z	3927GFJ2(X)Z	4227GFJ2(X)Z	4527GFJ2(X)Z	4827GFJ2(X)Z	5127GFJ2(X)Z	5427GFJ2(X)Z
	2727GFJ2(X)C	3027GFJ2(X)C	3327GFJ2(X)C	3627GFJ2(X)C	3927GFJ2(X)C	4227GFJ2(X)C	4527GFJ2(X)C	4827GFJ2(X)C	5127GFJ2(X)C	5427GFJ2(X)C
3000	2730GFJ2(X)Z	3030GFJ2(X)Z	3330GFJ2(X)Z	3630GFJ2(X)Z	3930GFJ2(X)Z	4230GFJ2(X)Z	4530GFJ2(X)Z	4830GFJ2(X)Z	5130GFJ2(X)Z	5430GFJ2(X)Z
	2730GFJ2(X)C	3030GFJ2(X)C	3330GFJ2(X)C	3630GFJ2(X)C	3930GFJ2(X)C	4230GFJ2(X)C	4530GFJ2(X)C	4830GFJ2(X)C	5130GFJ2(X)C	5430GFJ2(X)C
3300	2733GFJ2(X)Z	3033GFJ2(X)Z	3333GFJ2(X)Z	3633GFJ2(X)Z	3933GFJ2(X)Z	4233GFJ2(X)Z	4533GFJ2(X)Z	4833GFJ2(X)Z	5133GFJ2(X)Z	5433GFJ2(X)Z
	2733GFJ2(X)C	3033GFJ2(X)C	3333GFJ2(X)C	3633GFJ2(X)C	3933GFJ2(X)C	4233GFJ2(X)C	4533GFJ2(X)C	4833GFJ2(X)C	5133GFJ2(X)C	5433GFJ2(X)C
3600			3336GFJ2(X)Z	3636GFJ2(X)Z	3936GFJ2(X)Z	4236GFJ2(X)Z	4536GFJ2(X)Z	4836GFJ2(X)Z	5136GFJ2(X)Z	5436GFJ2(X)Z
			3336GFJ2(X)C	3636GFJ2(X)C	3936GFJ2(X)C	4236GFJ2(X)C	4536GFJ2(X)C	4836GFJ2(X)C	5136GFJ2(X)C	5436GFJ2(X)C
3900					3939GFJ2(X)Z	4239GFJ2(X)Z	4539GFJ2(X)Z	4839GFJ2(X)Z	5139GFJ2(X)Z	5439GFJ2(X)Z
					3939GFJ2(X)C	4239GFJ2(X)C	4539GFJ2(X)C	4839GFJ2(X)C	5139GFJ2(X)C	5439GFJ2(X)C
4200						4242GFJ2(X)Z	4542GFJ2(X)Z	4842GFJ2(X)Z	5142GFJ2(X)Z	5442GFJ2(X)Z
						4242GFJ2(X)C	4542GFJ2(X)C	4842GFJ2(X)C	5142GFJ2(X)C	5442GFJ2(X)C
4500							4545GFJ2(X)Z	4845GFJ2(X)Z	5145GFJ2(X)Z	5445GFJ2(X)Z
							4545GFJ2(X)C	4845GFJ2(X)C	5145GFJ2(X)C	5445GFJ2(X)C
4800								4848GFJ2(X)Z	5148GFJ2(X)Z	5448GFJ2(X)Z
								4848GFJ2(X)C	5148GFJ2(X)C	5448GFJ2(X)C
5100									5151GFJ2(X)Z	5451GFJ2(X)Z
									5151GFJ2(X)C	5451GFJ2(X)C

图名 GFJ2帘中门钢质防火卷帘选用表(一)

(X) — 防火等级

C — 中装 Z — 侧装

2007/07/12

GFJ2 帘中门钢质防火卷帘选用表(二)

洞宽W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
洞高H												
2100	5721GFJ2(X)Z	6021GFJ2(X)Z	6321GFJ2(X)Z	6621GFJ2(X)Z	6921GFJ2(X)Z	7221GFJ2(X)Z						
2400	5724GFJ2(X)Z	6024GFJ2(X)Z	6324GFJ2(X)Z	6624GFJ2(X)Z	6924GFJ2(X)Z	7224GFJ2(X)Z	7524GFJ2(X)Z	7824GFJ2(X)Z	8124GFJ2(X)Z	8424GFJ2(X)Z	8724GFJ2(X)Z	9024GFJ2(X)Z
2700	5727GFJ2(X)Z	6027GFJ2(X)Z	6327GFJ2(X)Z	6627GFJ2(X)Z	6927GFJ2(X)Z	7227GFJ2(X)Z	7527GFJ2(X)Z	7827GFJ2(X)Z	8127GFJ2(X)Z	8427GFJ2(X)Z	8727GFJ2(X)Z	9027GFJ2(X)Z
3000	5730GFJ2(X)Z	6030GFJ2(X)Z	6330GFJ2(X)Z	6630GFJ2(X)Z	6930GFJ2(X)Z	7230GFJ2(X)Z	7530GFJ2(X)Z	7830GFJ2(X)Z	8130GFJ2(X)Z	8430GFJ2(X)Z	8730GFJ2(X)Z	9030GFJ2(X)Z
3300	5730GFJ2(X)C	6030GFJ2(X)C	6330GFJ2(X)C	6630GFJ2(X)C	6930GFJ2(X)C	7230GFJ2(X)C	7530GFJ2(X)C	7830GFJ2(X)C	8130GFJ2(X)C	8430GFJ2(X)C	8730GFJ2(X)C	9030GFJ2(X)C
3600	5733GFJ2(X)Z	6033GFJ2(X)Z	6333GFJ2(X)Z	6633GFJ2(X)Z	6933GFJ2(X)Z	7233GFJ2(X)Z	7533GFJ2(X)Z	7833GFJ2(X)Z	8133GFJ2(X)Z	8433GFJ2(X)Z	8733GFJ2(X)Z	9033GFJ2(X)Z
3900	5733GFJ2(X)C	6033GFJ2(X)C	6333GFJ2(X)C	6633GFJ2(X)C	6933GFJ2(X)C	7233GFJ2(X)C	7533GFJ2(X)C	7833GFJ2(X)C	8133GFJ2(X)C	8433GFJ2(X)C	8733GFJ2(X)C	9033GFJ2(X)C
4200	5736GFJ2(X)Z	6036GFJ2(X)Z	6336GFJ2(X)Z	6636GFJ2(X)Z	6936GFJ2(X)Z	7236GFJ2(X)Z	7536GFJ2(X)Z	7836GFJ2(X)Z	8136GFJ2(X)Z	8436GFJ2(X)Z	8736GFJ2(X)Z	9036GFJ2(X)Z
4500	5736GFJ2(X)C	6036GFJ2(X)C	6336GFJ2(X)C	6636GFJ2(X)C	6936GFJ2(X)C	7236GFJ2(X)C	7536GFJ2(X)C	7836GFJ2(X)C	8136GFJ2(X)C	8436GFJ2(X)C	8736GFJ2(X)C	9036GFJ2(X)C
4800	5739GFJ2(X)Z	6039GFJ2(X)Z	6339GFJ2(X)Z	6639GFJ2(X)Z	6939GFJ2(X)Z	7239GFJ2(X)Z	7539GFJ2(X)Z	7839GFJ2(X)Z	8139GFJ2(X)Z	8439GFJ2(X)Z	8739GFJ2(X)Z	9039GFJ2(X)Z
5100	5739GFJ2(X)C	6039GFJ2(X)C	6339GFJ2(X)C	6639GFJ2(X)C	6939GFJ2(X)C	7239GFJ2(X)C	7539GFJ2(X)C	7839GFJ2(X)C	8139GFJ2(X)C	8439GFJ2(X)C	8739GFJ2(X)C	9039GFJ2(X)C
5400	5742GFJ2(X)Z	6042GFJ2(X)Z	6342GFJ2(X)Z	6642GFJ2(X)Z	6942GFJ2(X)Z	7242GFJ2(X)Z	7542GFJ2(X)Z	7842GFJ2(X)Z	8142GFJ2(X)Z	8442GFJ2(X)Z	8742GFJ2(X)Z	9042GFJ2(X)Z
5700	5742GFJ2(X)C	6042GFJ2(X)C	6342GFJ2(X)C	6642GFJ2(X)C	6942GFJ2(X)C	7242GFJ2(X)C	7542GFJ2(X)C	7842GFJ2(X)C	8142GFJ2(X)C	8442GFJ2(X)C	8742GFJ2(X)C	9042GFJ2(X)C
6000	5745GFJ2(X)Z	6045GFJ2(X)Z	6345GFJ2(X)Z	6645GFJ2(X)Z	6945GFJ2(X)Z	7245GFJ2(X)Z	7545GFJ2(X)Z	7845GFJ2(X)Z	8145GFJ2(X)Z	8445GFJ2(X)Z	8745GFJ2(X)Z	9045GFJ2(X)Z
6300	5745GFJ2(X)C	6045GFJ2(X)C	6345GFJ2(X)C	6645GFJ2(X)C	6945GFJ2(X)C	7245GFJ2(X)C	7545GFJ2(X)C	7845GFJ2(X)C	8145GFJ2(X)C	8445GFJ2(X)C	8745GFJ2(X)C	9045GFJ2(X)C
6600	5748GFJ2(X)Z	6048GFJ2(X)Z	6348GFJ2(X)Z	6648GFJ2(X)Z	6948GFJ2(X)Z	7248GFJ2(X)Z	7548GFJ2(X)Z	7848GFJ2(X)Z	8148GFJ2(X)Z	8448GFJ2(X)Z	8748GFJ2(X)Z	9048GFJ2(X)Z
6900	5748GFJ2(X)C	6048GFJ2(X)C	6348GFJ2(X)C	6648GFJ2(X)C	6948GFJ2(X)C	7248GFJ2(X)C	7548GFJ2(X)C	7848GFJ2(X)C	8148GFJ2(X)C	8448GFJ2(X)C	8748GFJ2(X)C	9048GFJ2(X)C
7200	5751GFJ2(X)Z	6051GFJ2(X)Z	6351GFJ2(X)Z	6651GFJ2(X)Z	6951GFJ2(X)Z	7251GFJ2(X)Z	7551GFJ2(X)Z	7851GFJ2(X)Z	8151GFJ2(X)Z	8451GFJ2(X)Z	8751GFJ2(X)Z	9051GFJ2(X)Z
7500	5751GFJ2(X)C	6051GFJ2(X)C	6351GFJ2(X)C	6651GFJ2(X)C	6951GFJ2(X)C	7251GFJ2(X)C	7551GFJ2(X)C	7851GFJ2(X)C	8151GFJ2(X)C	8451GFJ2(X)C	8751GFJ2(X)C	9051GFJ2(X)C

(X) — 防火等级

C — 中装

Z — 侧装

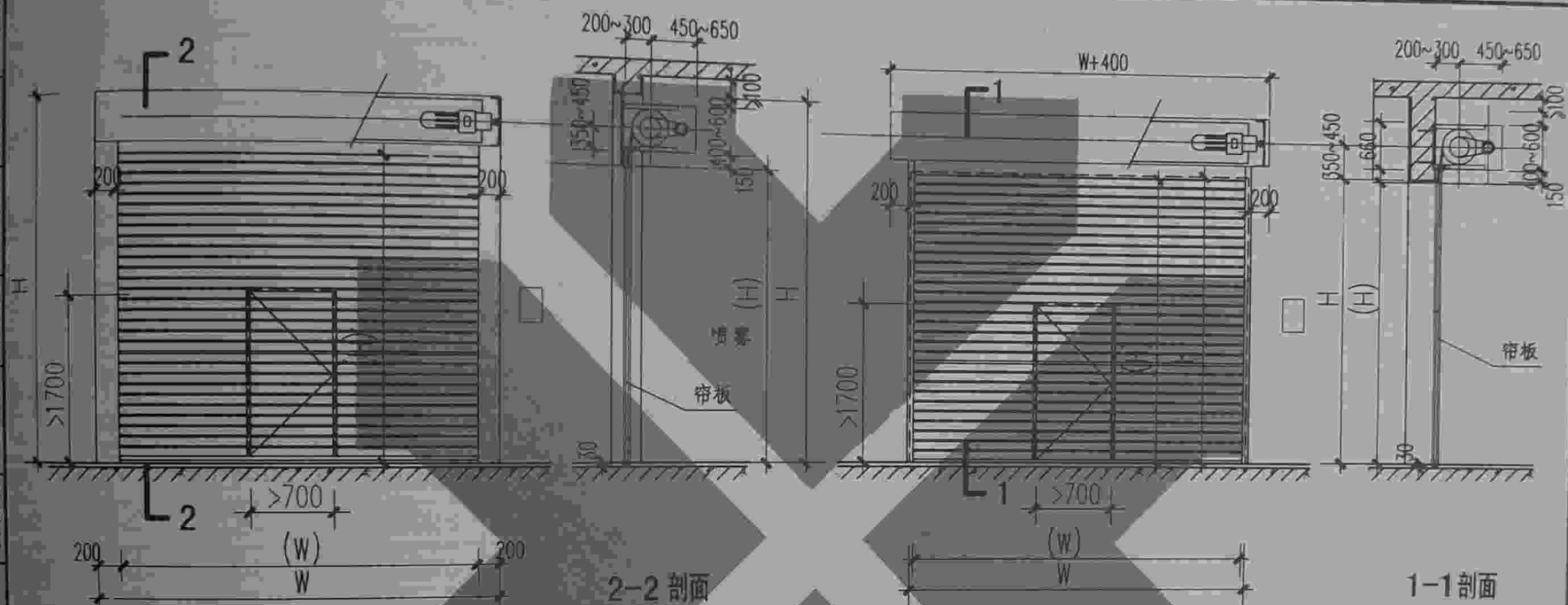
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GFJ2帘中门钢质防火卷帘选用表(二)

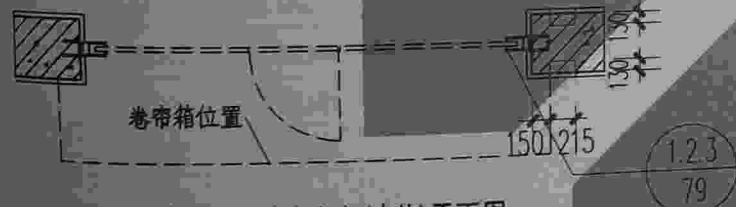
图集号

88J13-4

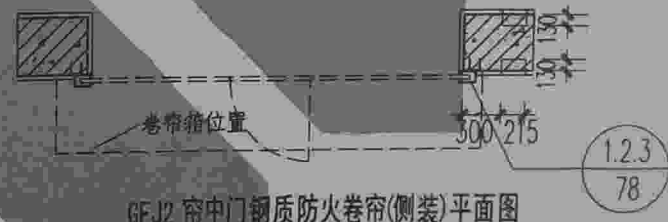
2007/07/12



GFJ2 帘中门钢质防火卷帘(中装)立面图
门洞口预埋钢位置图同 GFJ1 钢质(中装)防火卷帘



GFJ2 帘中门钢质防火卷帘(侧装)立面图
门洞口预埋钢位置图同 GFJ1 钢质(侧装)防火卷帘



说明 GFJ2 帘中门钢质防火卷帘为防火分隔用。逃生门(常闭)为人员安全疏散用,门宽 $\leq 0.70m$,门高 $\leq 1.70m$,门开启角度 $\leq 90^\circ$ 。
钢质防火卷帘需附加水幕喷淋系统或水喷雾系统保护防火等级达到F4,耐火极限 > 3.0 小时。

图名	GFJ2 帘中门钢质防火卷帘详图	图集号	88J13-4
		页次	50

2007/07/12

冯国梁
制图人
陶国梁
审核人
冯国梁
编制人

GFJ3 水喷雾钢质防火卷帘选用表 (一)

洞宽W 洞高H	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2100	2121GFJ3-Z	2421GFJ3-Z	2721GFJ3-Z	3021GFJ3-Z	3321GFJ3-Z	3621GFJ3-Z	3921GFJ3-Z	4221GFJ3-Z	4521GFJ3-Z	4821GFJ3-Z	5121GFJ3-Z	5421GFJ3-Z
2400	2124GFJ3-Z	2424GFJ3-Z	2724GFJ3-Z	3024GFJ3-Z	3324GFJ3-Z	3624GFJ3-Z	3924GFJ3-Z	4224GFJ3-Z	4524GFJ3-Z	4824GFJ3-Z	5124GFJ3-Z	5424GFJ3-Z
2700	2127GFJ3-Z	2427GFJ3-Z	2727GFJ3-Z	3027GFJ3-Z	3327GFJ3-Z	3627GFJ3-Z	3927GFJ3-Z	4227GFJ3-Z	4527GFJ3-Z	4827GFJ3-Z	5127GFJ3-Z	5427GFJ3-Z
	2127GFJ3-C	2427GFJ3-C	2727GFJ3-C	3027GFJ3-C	3327GFJ3-C	3627GFJ3-C	3927GFJ3-C	4227GFJ3-C	4527GFJ3-C	4827GFJ3-C	5127GFJ3-C	5427GFJ3-C
3000	2130GFJ3-Z	2430GFJ3-Z	2730GFJ3-Z	3030GFJ3-Z	3330GFJ3-Z	3630GFJ3-Z	3930GFJ3-Z	4230GFJ3-Z	4530GFJ3-Z	4830GFJ3-Z	5130GFJ3-Z	5430GFJ3-Z
	2130GFJ3-C	2430GFJ3-C	2730GFJ3-C	3030GFJ3-C	3330GFJ3-C	3630GFJ3-C	3930GFJ3-C	4230GFJ3-C	4530GFJ3-C	4830GFJ3-C	5130GFJ3-C	5430GFJ3-C
3300	2133GFJ3-Z	2433GFJ3-Z	2733GFJ3-Z	3033GFJ3-Z	3333GFJ3-Z	3633GFJ3-Z	3933GFJ3-Z	4233GFJ3-Z	4533GFJ3-Z	4833GFJ3-Z	5133GFJ3-Z	5433GFJ3-Z
	2133GFJ3-C	2433GFJ3-C	2733GFJ3-C	3033GFJ3-C	3333GFJ3-C	3633GFJ3-C	3933GFJ3-C	4233GFJ3-C	4533GFJ3-C	4833GFJ3-C	5133GFJ3-C	5433GFJ3-C
3600					3336GFJ3-Z	3636GFJ3-Z	3936GFJ3-Z	4236GFJ3-Z	4536GFJ3-Z	4836GFJ3-Z	5136GFJ3-Z	5436GFJ3-Z
					3336GFJ3-C	3636GFJ3-C	3936GFJ3-C	4236GFJ3-C	4536GFJ3-C	4836GFJ3-C	5136GFJ3-C	5436GFJ3-C
3900							3939GFJ3-Z	4239GFJ3-Z	4539GFJ3-Z	4839GFJ3-Z	5139GFJ3-Z	5439GFJ3-Z
							3939GFJ3-C	4239GFJ3-C	4539GFJ3-C	4839GFJ3-C	5139GFJ3-C	5439GFJ3-C
4200								4242GFJ3-Z	4542GFJ3-Z	4842GFJ3-Z	5142GFJ3-Z	5442GFJ3-Z
								4242GFJ3-C	4542GFJ3-C	4842GFJ3-C	5142GFJ3-C	5442GFJ3-C
4500									4545GFJ3-Z	4845GFJ3-Z	5145GFJ3-Z	5445GFJ3-Z
									4545GFJ3-C	4845GFJ3-C	5145GFJ3-C	5445GFJ3-C
4800										4848GFJ3-Z	5148GFJ3-Z	5448GFJ3-Z
										4848GFJ3-C	5148GFJ3-C	5448GFJ3-C
5100											5151GFJ3-Z	5451GFJ3-Z
											5151GFJ3-C	5451GFJ3-C

C—中装 Z—侧装

图名 GFJ3水喷雾钢质防火卷帘选用表 (一) 2007/07/12

GFJ3 水喷雾钢质防火卷帘选用表 (二)

洞宽W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
洞高H												
2100	5721GFJ3-C	6021GFJ3-C	6321GFJ3-C	6621GFJ3-C	6921GFJ3-C	7221GFJ3-C						
2400	5724GFJ3-C	6024GFJ3-C	6324GFJ3-C	6624GFJ3-C	6924GFJ3-C	7224GFJ3-C	7524GFJ3-C	7824GFJ3-C	8124GFJ3-C	8424GFJ3-C	8724GFJ3-C	9024GFJ3-C
2700	5727GFJ3-Z	6027GFJ3-Z	6327GFJ3-Z	6627GFJ3-Z	6927GFJ3-Z	7227GFJ3-Z	7527GFJ3-Z	7827GFJ3-Z	8127GFJ3-Z	8427GFJ3-Z	8727GFJ3-Z	9027GFJ3-Z
	5727GFJ3-C	6027GFJ3-C	6327GFJ3-C	6627GFJ3-C	6927GFJ3-C	7227GFJ3-C	7527GFJ3-C	7827GFJ3-C	8127GFJ3-C	8427GFJ3-C	8727GFJ3-C	9027GFJ3-C
3000	5730GFJ3-Z	6030GFJ3-Z	6330GFJ3-Z	6630GFJ3-Z	6930GFJ3-Z	7230GFJ3-Z	7530GFJ3-Z	7830GFJ3-Z	8130GFJ3-Z	8430GFJ3-Z	8730GFJ3-Z	9030GFJ3-Z
	5730GFJ3-C	6030GFJ3-C	6330GFJ3-C	6630GFJ3-C	6930GFJ3-C	7230GFJ3-C	7530GFJ3-C	7830GFJ3-C	8130GFJ3-C	8430GFJ3-C	8730GFJ3-C	9030GFJ3-C
3300	5733GFJ3-Z	6033GFJ3-Z	6333GFJ3-Z	6633GFJ3-Z	6933GFJ3-Z	7233GFJ3-Z	7533GFJ3-Z	7833GFJ3-Z	8133GFJ3-Z	8433GFJ3-Z	8733GFJ3-Z	9033GFJ3-Z
	5733GFJ3-C	6033GFJ3-C	6333GFJ3-C	6633GFJ3-C	6933GFJ3-C	7233GFJ3-C	7533GFJ3-C	7833GFJ3-C	8133GFJ3-C	8433GFJ3-C	8733GFJ3-C	9033GFJ3-C
3600	5736GFJ3-Z	6036GFJ3-Z	6336GFJ3-Z	6636GFJ3-Z	6936GFJ3-Z	7236GFJ3-Z	7536GFJ3-Z	7836GFJ3-Z	8136GFJ3-Z	8436GFJ3-Z	8736GFJ3-Z	9036GFJ3-Z
	5736GFJ3-C	6036GFJ3-C	6336GFJ3-C	6636GFJ3-C	6936GFJ3-C	7236GFJ3-C	7536GFJ3-C	7836GFJ3-C	8136GFJ3-C	8436GFJ3-C	8736GFJ3-C	9036GFJ3-C
3900	5739GFJ3-Z	6039GFJ3-Z	6339GFJ3-Z	6639GFJ3-Z	6939GFJ3-Z	7239GFJ3-Z	7539GFJ3-Z	7839GFJ3-Z	8139GFJ3-Z	8439GFJ3-Z	8739GFJ3-Z	9039GFJ3-Z
	5739GFJ3-C	6039GFJ3-C	6339GFJ3-C	6639GFJ3-C	6939GFJ3-C	7239GFJ3-C	7539GFJ3-C	7839GFJ3-C	8139GFJ3-C	8439GFJ3-C	8739GFJ3-C	9039GFJ3-C
4200	5742GFJ3-Z	6042GFJ3-Z	6342GFJ3-Z	6642GFJ3-Z	6942GFJ3-Z	7242GFJ3-Z	7542GFJ3-Z	7842GFJ3-Z	8142GFJ3-Z	8442GFJ3-Z	8742GFJ3-Z	9042GFJ3-Z
	5742GFJ3-C	6042GFJ3-C	6342GFJ3-C	6642GFJ3-C	6942GFJ3-C	7242GFJ3-C	7542GFJ3-C	7842GFJ3-C	8142GFJ3-C	8442GFJ3-C	8742GFJ3-C	9042GFJ3-C
4500	5745GFJ3-Z	6045GFJ3-Z	6345GFJ3-Z	6645GFJ3-Z	6945GFJ3-Z	7245GFJ3-Z	7545GFJ3-Z	7845GFJ3-Z	8145GFJ3-Z	8445GFJ3-Z	8745GFJ3-Z	9045GFJ3-Z
	5745GFJ3-C	6045GFJ3-C	6345GFJ3-C	6645GFJ3-C	6945GFJ3-C	7245GFJ3-C	7545GFJ3-C	7845GFJ3-C	8145GFJ3-C	8445GFJ3-C	8745GFJ3-C	9045GFJ3-C
4800	5748GFJ3-Z	6048GFJ3-Z	6348GFJ3-Z	6648GFJ3-Z	6948GFJ3-Z	7248GFJ3-Z	7548GFJ3-Z	7848GFJ3-Z	8148GFJ3-Z	8448GFJ3-Z	8748GFJ3-Z	9048GFJ3-Z
	5748GFJ3-C	6048GFJ3-C	6348GFJ3-C	6648GFJ3-C	6948GFJ3-C	7248GFJ3-C	7548GFJ3-C	7848GFJ3-C	8148GFJ3-C	8448GFJ3-C	8748GFJ3-C	9048GFJ3-C
5100	5751GFJ3-Z	6051GFJ3-Z	6351GFJ3-Z	6651GFJ3-Z	6951GFJ3-Z	7251GFJ3-Z	7551GFJ3-Z	7851GFJ3-Z	8151GFJ3-Z	8451GFJ3-Z	8751GFJ3-Z	9051GFJ3-Z
	5751GFJ3-C	6051GFJ3-C	6351GFJ3-C	6651GFJ3-C	6951GFJ3-C	7251GFJ3-C	7551GFJ3-C	7851GFJ3-C	8151GFJ3-C	8451GFJ3-C	8751GFJ3-C	9051GFJ3-C

防火等级

C—中装

Z—侧装

图名

GFJ3水喷雾钢质防火卷帘选用表(二)

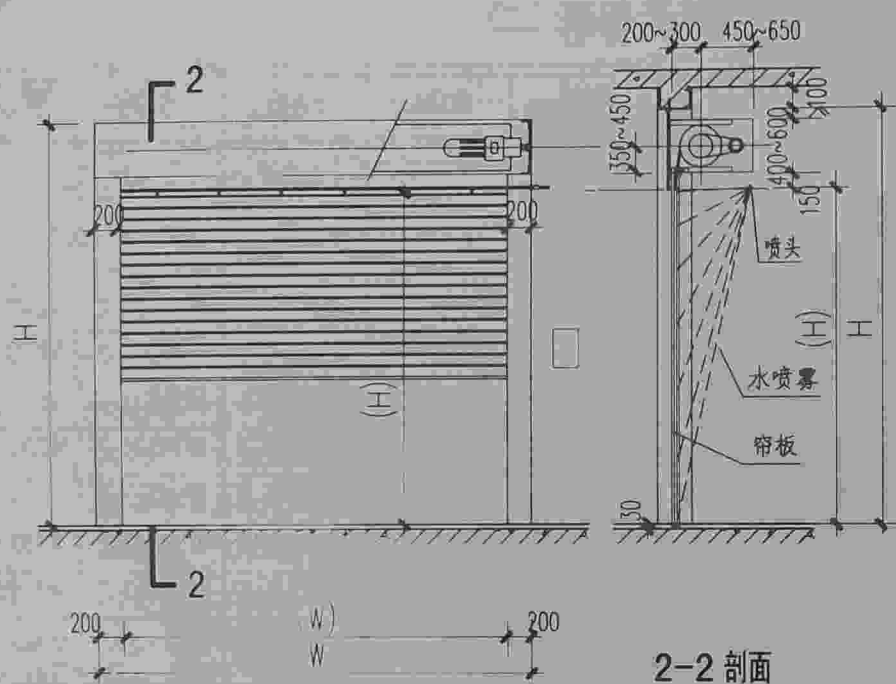
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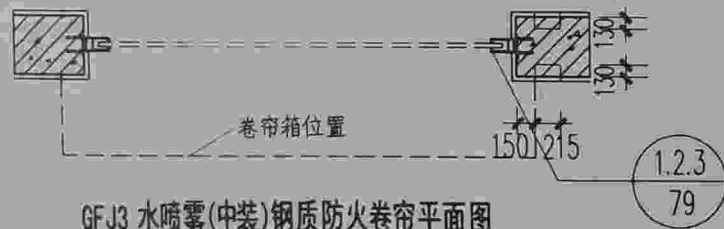
2007/07/12



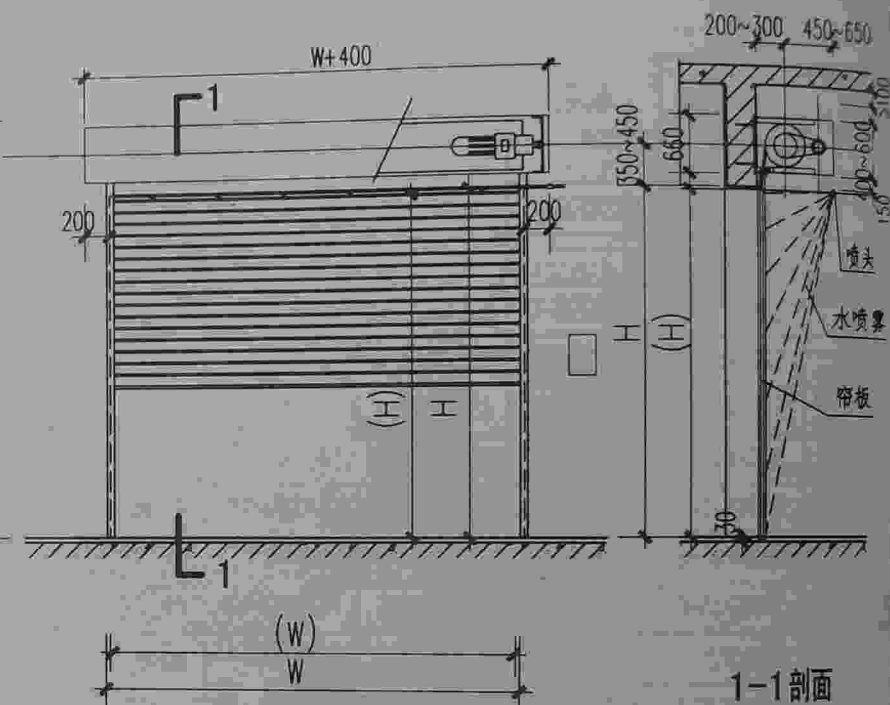
2-2 剖面

GFJ3 水喷雾(中装)钢质防火卷帘门立面图

门洞口预埋钢位置图同 GFJ1 钢质(中装)防火卷帘



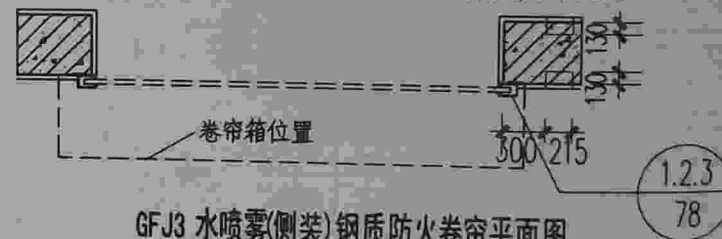
GFJ3 水喷雾(中装)钢质防火卷帘平面图



1-1 剖面

GFJ3 水喷雾(侧装)钢质防火卷帘立面图

门洞口预埋钢位置图同 GFJ1 钢质(侧装)防火卷帘



GFJ3 水喷雾(侧装)钢质防火卷帘平面图

说明: 水喷雾钢质防火卷帘的水喷雾系统采用切向旋涡式喷头, 使水雾化后射向帘面实行强制冷却, 用水量比水喷淋节省, 适用于不设自动水幕喷淋系统的建筑。水喷雾系统采用同层消火栓系统供水, 最佳压力0.4Pa 喷水强度 $0.3\text{m}^3/\text{m}\cdot\text{h}$, 喷头间距300~400 mm, 喷头与帘面的距

离600~700 mm, 水喷雾系统设有温感释放装置当温度达到68℃时水喷雾系统喷头自动喷水雾, 防火等级可达到F4, 耐火极限 ≥ 3.0 小时。

图名

GFJ3 水喷雾钢质防火卷帘详图 2007/07/12

图号 98J13-4

GFJ4带平开小门钢质防火卷帘选用表

洞宽 W 洞高 H	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2400	2424GFJ4	2724GFJ4	3024GFJ4	3324GFJ4	3624GFJ4	3924GFJ4	4224GFJ4	4524GFJ4	4824GFJ4	5124GFJ4	5424GFJ4
2700	2427GFJ4	2727GFJ4	3027GFJ4	3327GFJ4	3627GFJ4	3927GFJ4	4227GFJ4	4527GFJ4	4827GFJ4	5127GFJ4	5427GFJ4
3000	2430GFJ4	2730GFJ4	3030GFJ4	3330GFJ4	3630GFJ4	3930GFJ4	4230GFJ4	4530GFJ4	4830GFJ4	5130GFJ4	5430GFJ4
3300	2433GFJ4	2733GFJ4	3033GFJ4	3333GFJ4	3633GFJ4	3933GFJ4	4233GFJ4	4533GFJ4	4833GFJ4	5133GFJ4	5433GFJ4
3600				3336GFJ4	3636GFJ4	3936GFJ4	4236GFJ4	4536GFJ4	4836GFJ4	5136GFJ4	5436GFJ4
3900					3639GFJ4	3939GFJ4	4239GFJ4	4539GFJ4	4839GFJ4	5139GFJ4	5439GFJ4
4200						3942GFJ4	4242GFJ4	4542GFJ4	4842GFJ4	5142GFJ4	5442GFJ4
洞宽 W 洞高 H	5700	6000	6300	6600	6900	7200	7500	7800	8100	8700	9000
2400	5724GFJ4	6024GFJ4	6324GFJ4	6624GFJ4	6924GFJ4	7224GFJ4	7524GFJ4	7824GFJ4	8124GFJ4	8724GFJ4	9024GFJ4
2700	5727GFJ4	6027GFJ4	6327GFJ4	6627GFJ4	6927GFJ4	7227GFJ4	7527GFJ4	7827GFJ4	8127GFJ4	8727GFJ4	9027GFJ4
3000	5730GFJ4	6030GFJ4	6330GFJ4	6630GFJ4	6930GFJ4	7230GFJ4	7530GFJ4	7830GFJ4	8130GFJ4	8730GFJ4	9030GFJ4
3300	5733GFJ4	6033GFJ4	6333GFJ4	6633GFJ4	6933GFJ4	7233GFJ4	7533GFJ4	7833GFJ4	8133GFJ4	8733GFJ4	9033GFJ4
3600	5736GFJ4	6036GFJ4	6336GFJ4	6636GFJ4	6936GFJ4	7236GFJ4	7536GFJ4	7836GFJ4	8136GFJ4	8736GFJ4	9036GFJ4
3900	5739GFJ4	6039GFJ4	6339GFJ4	6639GFJ4	6939GFJ4	7239GFJ4	7539GFJ4	7839GFJ4	8139GFJ4	8739GFJ4	9039GFJ4
4200	5742GFJ4	6042GFJ4	6342GFJ4	6642GFJ4	6942GFJ4	7242GFJ4	7542GFJ4	7842GFJ4	8142GFJ4	8742GFJ4	9042GFJ4
4500	5745GFJ4	6045GFJ4	6345GFJ4	6645GFJ4	6945GFJ4	7245GFJ4	7545GFJ4	7845GFJ4	8145GFJ4	8736GFJ4	9036GFJ4
4800	5480GFJ4	6048GFJ4	6348GFJ4	6648GFJ4	6948GFJ4	7248GFJ4	7548GFJ4	7848GFJ4	8148GFJ4	8739GFJ4	9039GFJ4
5100	5751GFJ4	6051GFJ4	6351GFJ4	6651GFJ4	6951GFJ4	7251GFJ4	7551GFJ4	7842GFJ4	8142GFJ4	8742GFJ4	9042GFJ4

图名 GFJ4带平开小门钢质防火卷帘选用表

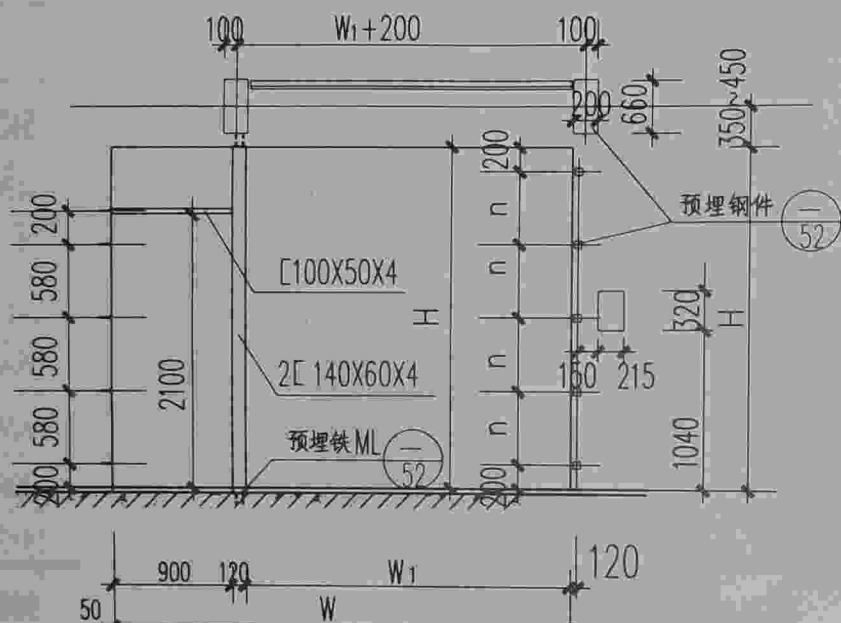
图集号

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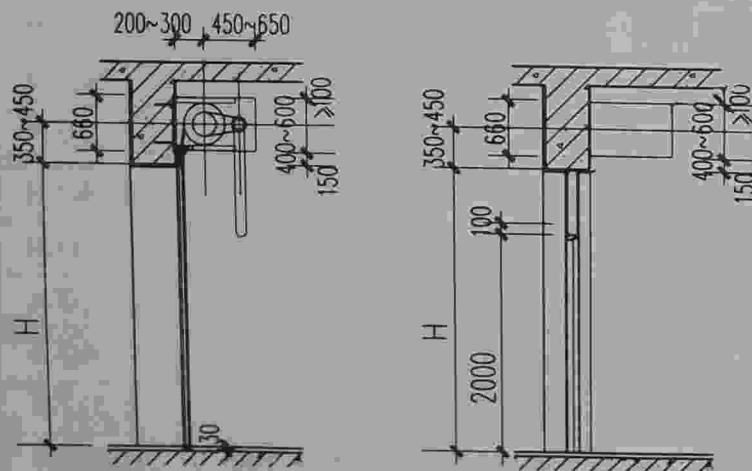
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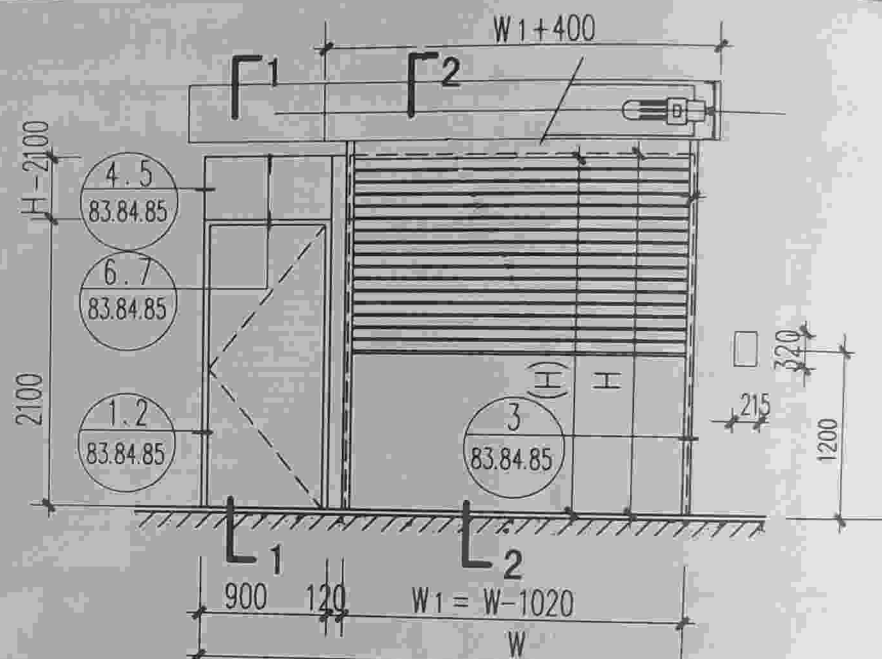


GFJ4 带平开小门钢质防火卷帘洞口预埋铁位置图

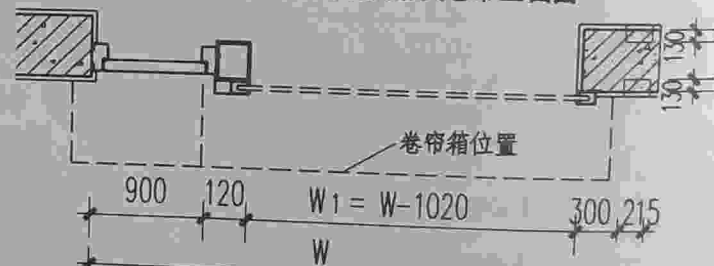


1-1 剖面

2-2 剖面



GFJ4 带平开小门钢质防火卷帘立面图



GFJ4 带平开小门钢质防火卷帘平面图

说明:左侧钢质防火门(常闭)为人员安全疏散用,右侧钢质防火卷帘为防火分隔用。
设计选用时需加注防火门与防火卷帘的编号。

钢质防火卷帘需附加水幕喷淋系统或水喷雾系统保护防火等级达到F4, 耐火极限 ≥ 3.0 小时。

图名	GFJ4带平开小门钢质防火卷帘详图	图号	89.113-4
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冯国梁
制图人
冯国梁
审核人
冯国梁
编制人

GFJ5 侧向钢质防火卷帘选用表

洞宽W	6000	7000	8000	9000	10000	11000	12000	13000	14000	15000
洞高H										
2400	6024GFJ5(X)	7024GFJ5(X)	8024GFJ5(X)	9024GFJ5(X)	10024GFJ5(X)	11024GFJ5(X)	12024GFJ5(X)	13024GFJ5(X)	14024GFJ5(X)	15024GFJ5(X)
2700	6027GFJ5(X)	7027GFJ5(X)	8027GFJ5(X)	9027GFJ5(X)	10027GFJ5(X)	11027GFJ5(X)	12027GFJ5(X)	13027GFJ5(X)	14027GFJ5(X)	15027GFJ5(X)
3000	6030GFJ5(X)	7030GFJ5(X)	8030GFJ5(X)	9030GFJ5(X)	10030GFJ5(X)	11030GFJ5(X)	12030GFJ5(X)	13030GFJ5(X)	14030GFJ5(X)	15030GFJ5(X)
3300	6033GFJ5(X)	7033GFJ5(X)	8033GFJ5(X)	9033GFJ5(X)	10033GFJ5(X)	11033GFJ5(X)	12033GFJ5(X)	13033GFJ5(X)	14033GFJ5(X)	15033GFJ5(X)
3600	6036GFJ5(X)	7036GFJ5(X)	8036GFJ5(X)	9036GFJ5(X)	10036GFJ5(X)	11036GFJ5(X)	12036GFJ5(X)	13036GFJ5(X)	14036GFJ5(X)	15036GFJ5(X)
3900	6039GFJ5(X)	7039GFJ5(X)	8039GFJ5(X)	9039GFJ5(X)	10039GFJ5(X)	11039GFJ5(X)	12039GFJ5(X)	13039GFJ5(X)	14039GFJ5(X)	15039GFJ5(X)
4200	6042GFJ5(X)	7042GFJ5(X)	8042GFJ5(X)	9042GFJ5(X)	10042GFJ5(X)	11042GFJ5(X)	12042GFJ5(X)	13042GFJ5(X)	14042GFJ5(X)	15042GFJ5(X)
4500	6045GFJ5(X)	7045GFJ5(X)	8045GFJ5(X)	9045GFJ5(X)	10045GFJ5(X)	11045GFJ5(X)	12045GFJ5(X)	13045GFJ5(X)	14045GFJ5(X)	15045GFJ5(X)
4800	6048GFJ5(X)	7048GFJ5(X)	8048GFJ5(X)	9048GFJ5(X)	10048GFJ5(X)	11048GFJ5(X)	12048GFJ5(X)	13048GFJ5(X)	14048GFJ5(X)	15048GFJ5(X)
5100	6051GFJ5(X)	7051GFJ5(X)	8051GFJ5(X)	9051GFJ5(X)	10051GFJ5(X)	11051GFJ5(X)	12051GFJ5(X)	13051GFJ5(X)	14051GFJ5(X)	15051GFJ5(X)
洞宽W	16000	17000	18000	19000	20000	21000	22000	23000	24000	30000
洞高H										
2400	16024GFJ5(X)	17024GFJ5(X)	18024GFJ5(X)	19024GFJ5(X)	20024GFJ5(X)	21024GFJ5(X)	22024GFJ5(X)	23024GFJ5(X)	24024GFJ5(X)	30024GFJ5(X)
2700	16027GFJ5(X)	17027GFJ5(X)	18027GFJ5(X)	19027GFJ5(X)	20027GFJ5(X)	21027GFJ5(X)	22027GFJ5(X)	23027GFJ5(X)	24027GFJ5(X)	30027GFJ5(X)
3000	16030GFJ5(X)	17030GFJ5(X)	18030GFJ5(X)	19030GFJ5(X)	20030GFJ5(X)	21030GFJ5(X)	22030GFJ5(X)	23030GFJ5(X)	24030GFJ5(X)	30030GFJ5(X)
3300	16033GFJ5(X)	17033GFJ5(X)	18033GFJ5(X)	19033GFJ5(X)	20033GFJ5(X)	21033GFJ5(X)	22033GFJ5(X)	23033GFJ5(X)	24033GFJ5(X)	30033GFJ5(X)
3600	16036GFJ5(X)	17036GFJ5(X)	18036GFJ5(X)	19036GFJ5(X)	20036GFJ5(X)	21036GFJ5(X)	22036GFJ5(X)	23036GFJ5(X)	24036GFJ5(X)	30036GFJ5(X)
3900	16039GFJ5(X)	17039GFJ5(X)	18039GFJ5(X)	19039GFJ5(X)	20039GFJ5(X)	21039GFJ5(X)	22039GFJ5(X)	23039GFJ5(X)	24039GFJ5(X)	30039GFJ5(X)
4200	16042GFJ5(X)	17042GFJ5(X)	18042GFJ5(X)	19042GFJ5(X)	20042GFJ5(X)	21042GFJ5(X)	22042GFJ5(X)	23042GFJ5(X)	24042GFJ5(X)	30042GFJ5(X)
4500	16045GFJ5(X)	17045GFJ5(X)	18045GFJ5(X)	19045GFJ5(X)	20045GFJ5(X)	21045GFJ5(X)	22045GFJ5(X)	23045GFJ5(X)	24045GFJ5(X)	30045GFJ5(X)
4800	16048GFJ5(X)	17048GFJ5(X)	18048GFJ5(X)	19048GFJ5(X)	20048GFJ5(X)	21048GFJ5(X)	22048GFJ5(X)	23048GFJ5(X)	24048GFJ5(X)	30048GFJ5(X)
5100	16051GFJ5(X)	17051GFJ5(X)	18051GFJ5(X)	19051GFJ5(X)	20051GFJ5(X)	21051GFJ5(X)	22051GFJ5(X)	23051GFJ5(X)	24051GFJ5(X)	30051GFJ5(X)

(X) — 防火等级

图名

GFJ5 侧向钢质防火卷帘选用表

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洞宽W 洞长L	GFJ6 平卧型钢质防火卷帘选用表												
	4200	4500	4800	5100	5400	5700	6000	7000	8000	10000	12000	14000	16000
1800	4218GFJ6	4518GFJ6	4818GFJ6	5118GFJ6	5418GFJ6	5718GFJ6	6018GFJ6	7018GFJ6	8018GFJ6	10018GFJ6	12018GFJ6	14018GFJ6	16018GFJ6
2000	4220GFJ6	4520GFJ6	4820GFJ6	5120GFJ6	5420GFJ6	5720GFJ6	6020GFJ6	7020GFJ6	8020GFJ6	10020GFJ6	12020GFJ6	14020GFJ6	16020GFJ6
2200	4222GFJ6	4522GFJ6	4822GFJ6	5122GFJ6	5422GFJ6	5722GFJ6	6022GFJ6	7022GFJ6	8022GFJ6	10022GFJ6	12022GFJ6	14022GFJ6	16022GFJ6
2400	4224GFJ6	4524GFJ6	4824GFJ6	5124GFJ6	5424GFJ6	5724GFJ6	6024GFJ6	7024GFJ6	8024GFJ6	10024GFJ6	12024GFJ6	14024GFJ6	16024GFJ6
2600	4226GFJ6	4526GFJ6	4826GFJ6	5126GFJ6	5426GFJ6	5726GFJ6	6026GFJ6	7026GFJ6	8026GFJ6	10026GFJ6	12026GFJ6	14026GFJ6	16026GFJ6
2800	4228GFJ6	4528GFJ6	4828GFJ6	5128GFJ6	5428GFJ6	5728GFJ6	6028GFJ6	7028GFJ6	8028GFJ6	10028GFJ6	12028GFJ6	14028GFJ6	16028GFJ6
3000	4230GFJ6	4530GFJ6	4830GFJ6	5130GFJ6	5430GFJ6	5730GFJ6	6030GFJ6	7030GFJ6	8030GFJ6	10030GFJ6	12030GFJ6	14030GFJ6	16030GFJ6
3200	4232GFJ6	4532GFJ6	4832GFJ6	5132GFJ6	5432GFJ6	5732GFJ6	6032GFJ6	7032GFJ6	8032GFJ6	10032GFJ6	12032GFJ6	14032GFJ6	16032GFJ6
3400	4234GFJ6	4534GFJ6	4834GFJ6	5134GFJ6	5434GFJ6	5734GFJ6	6034GFJ6	7034GFJ6	8034GFJ6	10034GFJ6	12034GFJ6	14034GFJ6	16034GFJ6
3600	4236GFJ6	4536GFJ6	4836GFJ6	5136GFJ6	5436GFJ6	5736GFJ6	6036GFJ6	7036GFJ6	8036GFJ6	10036GFJ6	12036GFJ6	14036GFJ6	16036GFJ6
3800	4238GFJ6	4538GFJ6	4838GFJ6	5138GFJ6	5438GFJ6	5738GFJ6	6038GFJ6	7038GFJ6	8038GFJ6	10038GFJ6	12038GFJ6	14038GFJ6	16038GFJ6
4000	4240GFJ6	4540GFJ6	4840GFJ6	5140GFJ6	5440GFJ6	5740GFJ6	6040GFJ6	7040GFJ6	8040GFJ6	10040GFJ6	12040GFJ6	14040GFJ6	16040GFJ6
4200	4242GFJ6	4542GFJ6	4842GFJ6	5142GFJ6	5442GFJ6	5742GFJ6	6042GFJ6	7042GFJ6	8042GFJ6	10042GFJ6	12042GFJ6	14042GFJ6	16042GFJ6
4400	4244GFJ6	4544GFJ6	4844GFJ6	5144GFJ6	5444GFJ6	5744GFJ6	6044GFJ6	7044GFJ6	8044GFJ6	10044GFJ6	12044GFJ6	14044GFJ6	16044GFJ6
4600	4246GFJ6	4546GFJ6	4846GFJ6	5146GFJ6	5446GFJ6	5746GFJ6	6046GFJ6	7046GFJ6	8046GFJ6	10046GFJ6	12046GFJ6	14046GFJ6	16046GFJ6
4800	4248GFJ6	4548GFJ6	4848GFJ6	5148GFJ6	5448GFJ6	5748GFJ6	6048GFJ6	7048GFJ6	8048GFJ6	10048GFJ6	12048GFJ6	14048GFJ6	16048GFJ6
5000	4250GFJ6	4550GFJ6	4850GFJ6	5150GFJ6	5450GFJ6	5750GFJ6	6050GFJ6	7050GFJ6	8050GFJ6	10050GFJ6	12050GFJ6	14050GFJ6	16050GFJ6

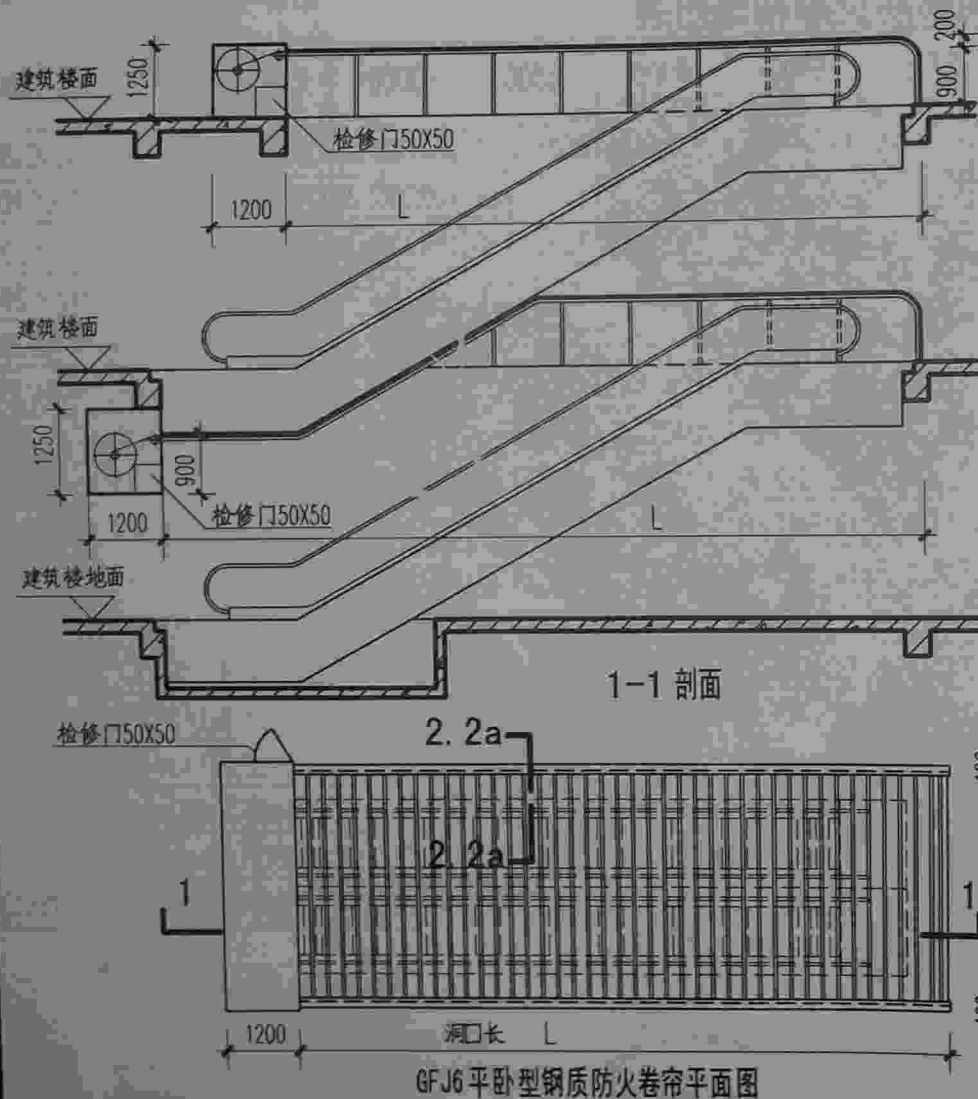
GFJ6 平卧型钢质防火卷帘 适用于自动扶梯洞口或其它水平洞口的平面防火分隔

技术指标

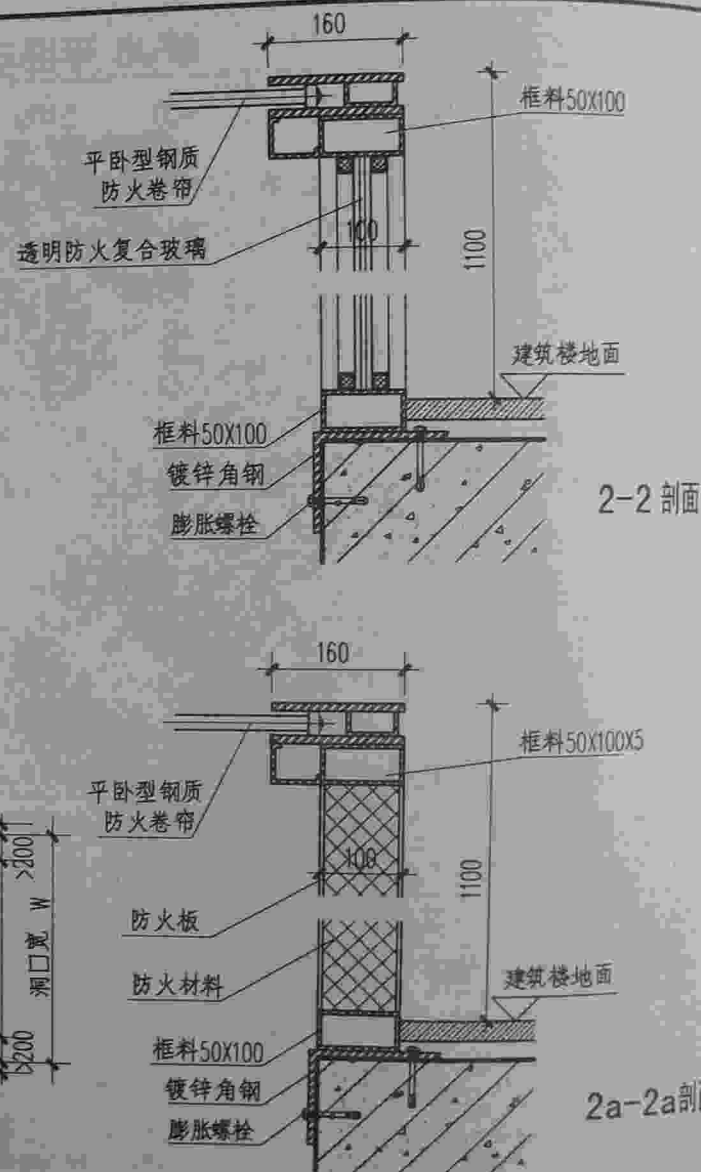
洞口尺寸	宽度 $W < 5m$ 长度 $L < 16m$	电动机—供电电压	AC380V, 50Hz
最小弯曲半径	$R \geq 600$	卷帘起闭平均噪声	75dB
耐火时间	≥ 3.0 小时	门体线速度—卷帘起闭速度	$V = 2.0 \sim 9.0$ m/min

图名 GFJ6平卧型钢质防火卷帘选用表 图集号 88J13-4

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说明：适用于自动扶梯洞口或其它水平洞口的平面防火分隔
 洞口长 $L \leq 16m$ 宽 $W \leq 5m$ 防火等级达到F4, 耐火极限 > 3.0 小时。
 门体启闭速度 $V=2.0 \sim 9.0m/min$ 电源 $75 \times 2=150W, 380V, 50Hz$



图名

GFJ6平卧型钢质防火卷帘详图

图号 88J13-4

2007/07/12

FFJ1无机复合单轨防火卷帘选用表(一)

洞宽W	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
洞高H												
2400	2124FFJ1-C	2424FFJ1-C	2724FFJ1-C	3024FFJ1-C	3324FFJ1-C	3624FFJ1-C	3924FFJ1-C	4224FFJ1-C	4524FFJ1-C	4824FFJ1-C	5124FFJ1-C	5424FFJ1-C
2700	2127FFJ1-Z	2427FFJ1-Z	2727FFJ1-Z	3027FFJ1-Z	3327FFJ1-Z	3627FFJ1-Z	3927FFJ1-Z	4227FFJ1-Z	4527FFJ1-Z	4827FFJ1-Z	5127FFJ1-Z	5427FFJ1-Z
	2127FFJ1-C	2427FFJ1-C	2727FFJ1-C	3027FFJ1-C	3327FFJ1-C	3627FFJ1-C	3927FFJ1-C	4227FFJ1-C	4527FFJ1-C	4827FFJ1-C	5127FFJ1-C	5427FFJ1-C
3000		2430FFJ1-Z	2730FFJ1-Z	3030FFJ1-Z	3330FFJ1-Z	3630FFJ1-Z	3930FFJ1-Z	4230FFJ1-Z	4530FFJ1-Z	4830FFJ1-Z	5130FFJ1-Z	5430FFJ1-Z
		2430FFJ1-C	2730FFJ1-C	3030FFJ1-C	3330FFJ1-C	3630FFJ1-C	3930FFJ1-C	4230FFJ1-C	4530FFJ1-C	4830FFJ1-C	5130FFJ1-C	5430FFJ1-C
3300		2433FFJ1-Z	2733FFJ1-Z	3033FFJ1-Z	3333FFJ1-Z	3633FFJ1-Z	3933FFJ1-Z	4233FFJ1-Z	4533FFJ1-Z	4833FFJ1-Z	5133FFJ1-Z	5433FFJ1-Z
		2433FFJ1-C	2733FFJ1-C	3033FFJ1-C	3333FFJ1-C	3633FFJ1-C	3933FFJ1-C	4233FFJ1-C	4533FFJ1-C	4833FFJ1-C	5133FFJ1-C	5433FFJ1-C
3600					3336FFJ1-Z	3636FFJ1-Z	3936FFJ1-Z	4236FFJ1-Z	4536FFJ1-Z	4836FFJ1-Z	5136FFJ1-Z	5436FFJ1-Z
					3336FFJ1-C	3636FFJ1-C	3936FFJ1-C	4236FFJ1-C	4536FFJ1-C	4836FFJ1-C	5136FFJ1-C	5436FFJ1-C
3900							3939FFJ1-Z	4239FFJ1-Z	4539FFJ1-Z	4839FFJ1-Z	5139FFJ1-Z	5439FFJ1-Z
							3939FFJ1-C	4239FFJ1-C	4539FFJ1-C	4839FFJ1-C	5139FFJ1-C	5439FFJ1-C
4200								4242FFJ1-Z	4542FFJ1-Z	4842FFJ1-Z	5142FFJ1-Z	5442FFJ1-Z
								4242FFJ1-C	4542FFJ1-C	4842FFJ1-C	5142FFJ1-C	5442FFJ1-C
4500									4545FFJ1-Z	4845FFJ1-Z	5145FFJ1-Z	5445FFJ1-Z
									4545FFJ1-C	4845FFJ1-C	5145FFJ1-C	5445FFJ1-C
4800										4848FFJ1-Z	5148FFJ1-Z	5448FFJ1-Z
										4848FFJ1-C	5148FFJ1-C	5448FFJ1-C
5100											5151FFJ1-Z	5451FFJ1-Z
											5151FFJ1-C	5451FFJ1-C
											5154FFJ1-Z	5454FFJ1-Z
											5154FFJ1-C	5454FFJ1-C
5400												

图名 FFJ1无机复合单轨防火卷帘选用表(一)

图集号

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C—中装

Z—侧装

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FFJ1无机复合单轨防火卷帘选用表(二)

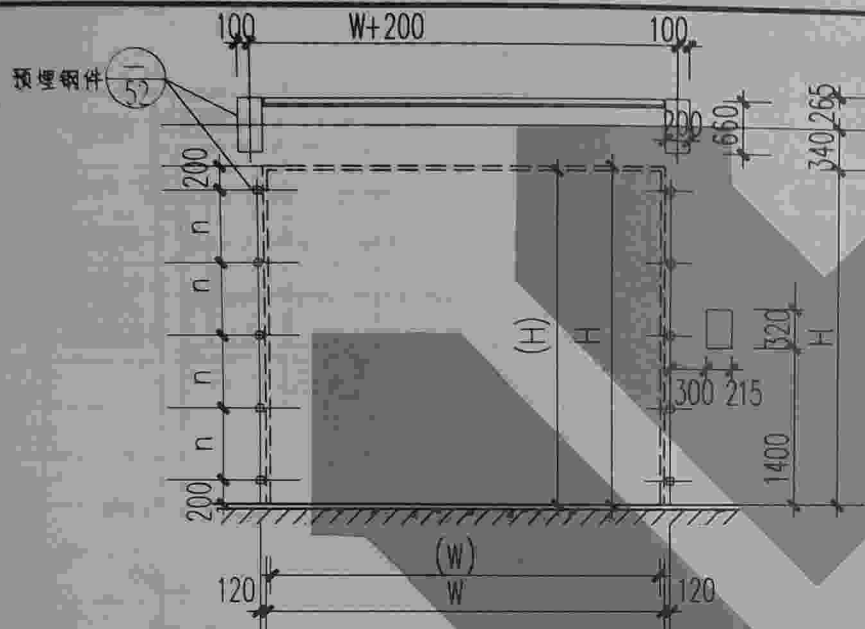
洞宽W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
洞高H												
2400	5724FFJ1-C	6024FFJ1-C	6324FFJ1-C	6624GFJ1-C	6924FFJ1-C	7224FFJ1-C	7524FFJ1-C	7824FFJ1-C	8124FFJ1-C	8424FFJ1-C	8724FFJ1-C	9024FFJ1-C
2700	5727FFJ1-Z	6027FFJ1-Z	6327FFJ1-Z	6627FFJ1-Z	6927FFJ1-Z	7227FFJ1-Z	7527FFJ1-Z	7827FFJ1-Z				
	5727FFJ1-C	6027FFJ1-C	6327FFJ1-C	6627FFJ1-C	6927FFJ1-C	7227GFJ1-C	7527FFJ1-C	7827FFJ1-C	8127FFJ1-C	8427FFJ1-C	8727FFJ1-C	9027FFJ1-C
3000	5730FFJ1-Z	6030FFJ1-Z	6330FFJ1-Z	6630FFJ1-Z	6930FFJ1-Z	7230FFJ1-Z	7530FFJ1-Z	7830FFJ1-Z	8130FFJ1-Z	8430FFJ1-Z	8730FFJ1-Z	9030FFJ1-Z
	5730FFJ1-C	6030FFJ1-C	6330FFJ1-C	6630FFJ1-C	6930FFJ1-C	7230FFJ1-C	7530FFJ1-C	7830FFJ1-C	8130FFJ1-C	8430FFJ1-C	8730FFJ1-C	9030FFJ1-C
3300	5733FFJ1-Z	6033FFJ1-Z	6333FFJ1-Z	6633FFJ1-Z	6933FFJ1-Z	7233FFJ1-Z	7533FFJ1-Z	7833FFJ1-Z	8133FFJ1-Z	8433FFJ1-Z	8733FFJ1-Z	9033FFJ1-Z
	5733FFJ1-C	6033FFJ1-C	6333GFJ1-C	6633FFJ1-C	6933FFJ1-C	7233FFJ1-C	7533FFJ1-C	7833FFJ1-C	8133FFJ1-C	8433FFJ1-C	8733FFJ1-C	9033FFJ1-C
3600	5736FFJ1-Z	6036FFJ1-Z	6336GFJ1-Z	6636FFJ1-Z	6936FFJ1-Z	7236FFJ1-Z	7536FFJ1-Z	7836FFJ1-Z	8136FFJ1-Z	8436FFJ1-Z	8736FFJ1-Z	9036FFJ1-Z
	5736FFJ1-C	6036FFJ1-C	6336GFJ2-C	6636FFJ1-C	6936FFJ1-C	7236FFJ1-C	7536FFJ1-C	7836FFJ1-C	8136FFJ1-C	8436FFJ1-C	8736FFJ1-C	9036FFJ1-C
3900	5739FFJ1-Z	6039FFJ1-Z	6339GFJ1-Z	6639FFJ1-Z	6939FFJ1-Z	7239FFJ1-Z	7539FFJ1-Z	7839FFJ1-Z	8139FFJ1-Z	8439FFJ1-Z	8739FFJ1-Z	9039FFJ1-Z
	5739FFJ1-C	6039FFJ1-C	6339FFJ1-C	6639FFJ1-C	6939FFJ1-C	7239FFJ1-C	7539FFJ1-C	7839FFJ1-C	8139FFJ1-C	8439FFJ1-C	8739FFJ1-C	9039FFJ1-C
4200	5742FFJ1-Z	6042FFJ1-Z	6342FFJ1-Z	6642FFJ1-Z	6942FFJ1-Z	7242FFJ1-Z	7542FFJ1-Z	7842FFJ1-Z	8142FFJ1-Z	8442FFJ1-Z	8742FFJ1-Z	9042FFJ1-Z
	5742FFJ1-C	6042FFJ1-C	6342FFJ1-C	6642FFJ1-C	6942FFJ1-C	7242FFJ1-C	7542FFJ1-C	7842FFJ1-C	8142FFJ1-C	8442FFJ1-C	8742FFJ1-C	9042FFJ1-C
4500	5745FFJ1-Z	6045FFJ1-Z	6345FFJ1-Z	6645FFJ1-Z	6945FFJ1-Z	7245FFJ1-Z	7545FFJ1-Z	7845FFJ1-Z	8145FFJ1-Z	8445FFJ1-Z	8745FFJ1-Z	9045FFJ1-Z
	5745FFJ1-C	6045FFJ1-C	6345FFJ1-C	6645FFJ1-C	6945FFJ1-C	7245FFJ1-C	7545FFJ1-C	7845FFJ1-C	8145FFJ1-C	8445FFJ1-C	8745FFJ1-C	9045FFJ1-C
4800	5748FFJ1-Z	6048FFJ1-Z	6348FFJ1-Z	6648FFJ1-Z	6948FFJ1-Z	7248FFJ1-Z	7548FFJ1-Z	7848FFJ1-Z	8148FFJ1-Z	8448FFJ1-Z	8748FFJ1-Z	9048FFJ1-Z
	5748FFJ1-C	6048FFJ1-C	6348FFJ1-C	6648FFJ1-C	6948FFJ1-C	7248FFJ1-C	7548FFJ1-C	7848FFJ1-C	8148FFJ1-C	8448FFJ1-C	8748FFJ1-C	9048FFJ1-C
5100	5751FFJ1-Z	6051FFJ1-Z	6351FFJ1-Z	6651FFJ1-Z	6951FFJ1-Z	7251FFJ1-Z	7551FFJ1-Z	7851FFJ1-Z	8151FFJ1-Z	8451FFJ1-Z	8751FFJ1-Z	9051FFJ1-Z
	5751FFJ1-C	6051FFJ1-C	6351FFJ1-C	6651FFJ1-C	6951FFJ1-C	7251FFJ1-C	7551FFJ1-C	7851FFJ1-C	8151FFJ1-C	8451FFJ1-C	8751FFJ1-C	9051FFJ1-C
5400	5754FFJ1-Z	6054FFJ1-Z	6354FFJ1-Z	6654FFJ1-Z	6954FFJ1-Z	7254FFJ1-Z	7554FFJ1-Z	7854FFJ1-Z	8154FFJ1-Z	8454FFJ1-Z	8754FFJ1-Z	9054FFJ1-Z
	5754FFJ1-C	6054FFJ1-C	6354FFJ1-C	6654FFJ1-C	6954FFJ1-C	7254FFJ1-C	7554FFJ1-C	7854FFJ1-C	8154FFJ1-C	8454FFJ1-C	8754FFJ1-C	9054FFJ1-C

C—中装 Z—侧装

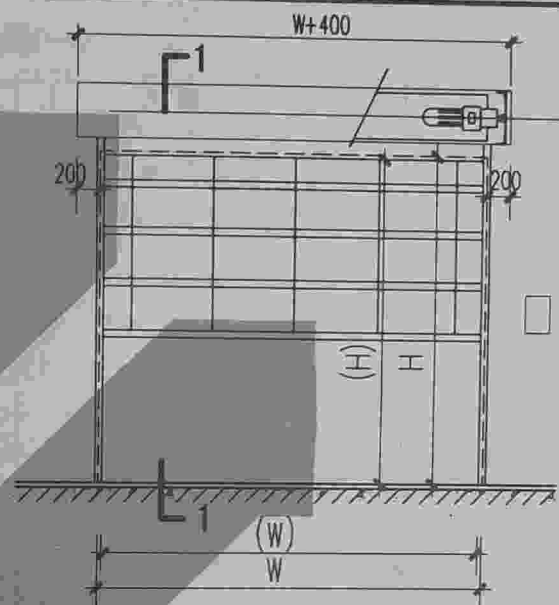
图名 FFJ1无机复合单轨防火卷帘选用表(二)

页次

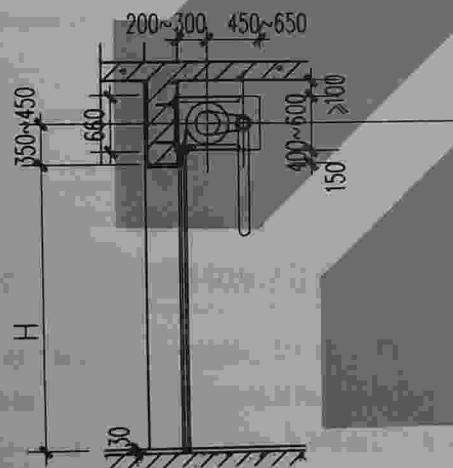
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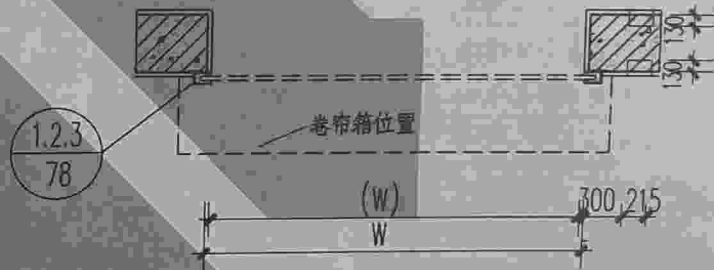
FFJ1无机复合单轨(侧装)防火卷帘门洞口预埋铁位置图



FFJ1无机复合单轨(侧装)防火卷帘立面图



1-1 剖面



FFJ1无机复合单轨(侧装)防火卷帘平面图

说明: 无机复合 防火卷帘 体积小, 重量轻, 价格低, 运行平稳, 耐酸碱抗锈蚀。

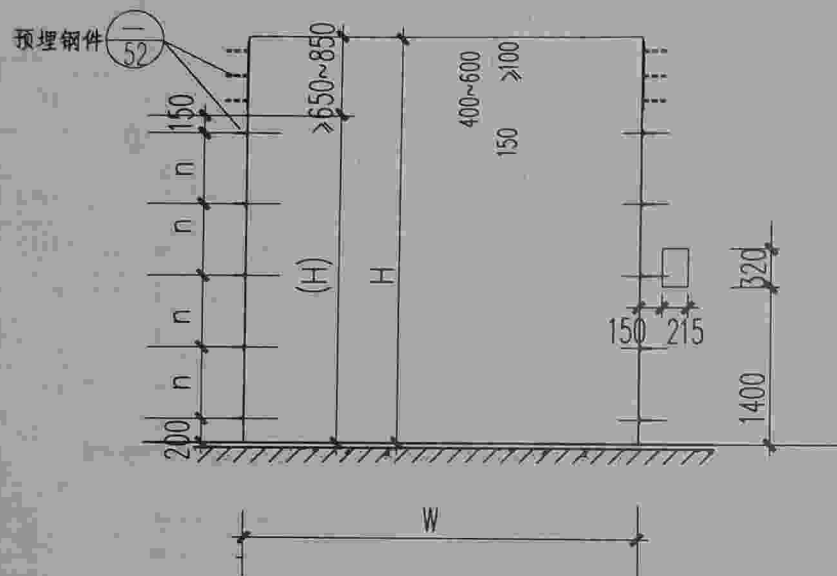
无机复合单轨防火卷帘 不需水幕喷淋系统保护防火等级达到F3, 耐火时间 ≥ 2.5 小时。

附加水幕喷淋系统保护防火等级可达到F4, 耐火极限 ≥ 3.0 小时。

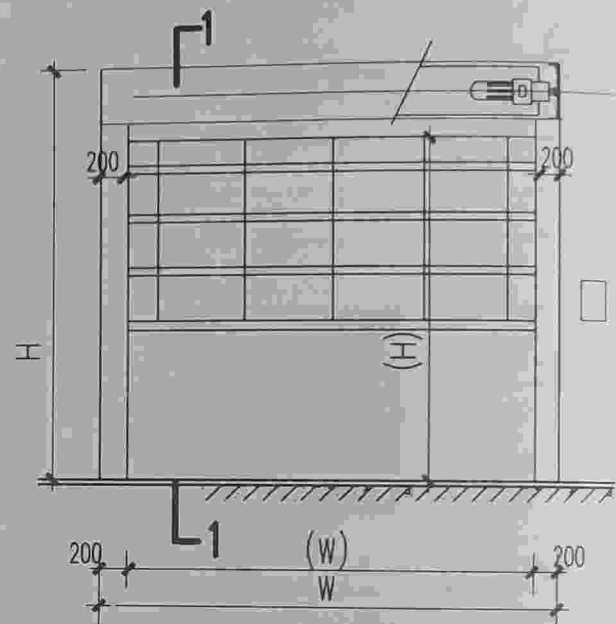
图名 FFJ1无机复合单轨(侧装)防火卷帘详图

图样号 88J13-4

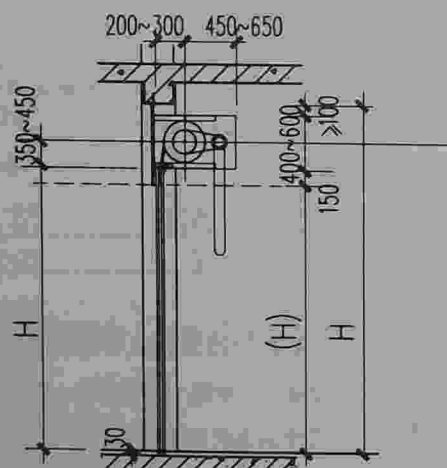
页次 2007/07/12



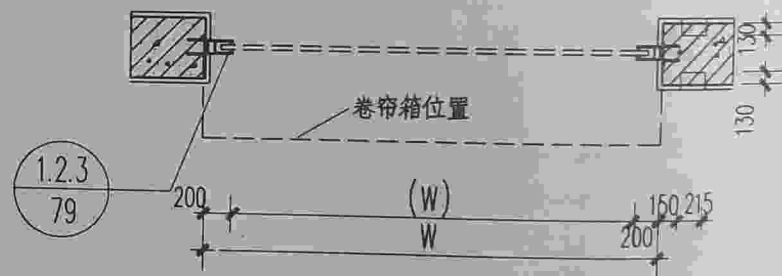
FFJ1无机复合单轨(中装)防火卷帘门洞口预埋铁位置图



FFJ1无机复合单轨(中装)防火卷帘立面图



1-1



FFJ1无机复合单轨(中装)防火卷帘平面图

说明：无机复合防火卷帘体积小，重量轻，价格低，运行平稳，耐酸碱抗锈蚀。
无机复合单轨防火卷帘不需水幕喷淋系统保护防火等级达到F3，耐火时间≥2.5小时。
附加水幕喷淋系统保护防火等级可达到F4，耐火极限≥3.0小时。

图名 FFJ1无机复合单轨(中装)防火卷帘详图

图集号 88J13-4

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FFJ2 无机复合双轨防火卷帘选用表(一)

卷帘高度H	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2400	2124FFJ2-Z	2424FFJ2-Z	2724FFJ2-Z	3024FFJ2-Z	3324FFJ2-Z	3624FFJ2-Z	3924FFJ2-Z	4224FFJ2-Z	4524FFJ2-Z			
	2124FFJ2-C	2424FFJ2-C	2724FFJ2-C	3024FFJ2-C	3324FFJ2-C	3624FFJ2-C	3924FFJ2-C	4224FFJ2-C	4524FFJ2-C	4824FFJ2-C	5124FFJ2-C	5424FFJ2-C
2700	2127FFJ2-Z	2427FFJ2-Z	2727FFJ2-Z	3027FFJ2-Z	3327FFJ2-Z	3627FFJ2-Z	3927FFJ2-Z	4227FFJ2-Z	4527FFJ2-Z	4827FFJ2-Z	5127FFJ2-Z	5427FFJ2-Z
	2127FFJ2-C	2427FFJ2-C	2727FFJ2-C	3027FFJ2-C	3327FFJ2-C	3627FFJ2-C	3927FFJ2-C	4227FFJ2-C	4527FFJ2-C	4827FFJ2-C	5127FFJ2-C	5427FFJ2-C
3000		2430FFJ2-Z	2730FFJ2-Z	3030FFJ2-Z	3330FFJ2-Z	3630FFJ2-Z	3930FFJ2-Z	4230FFJ2-Z	4530FFJ2-Z	4830FFJ2-Z	5130FFJ2-Z	5430FFJ2-Z
		2430FFJ2-C	2730FFJ2-C	3030FFJ2-C	3330FFJ2-C	3630FFJ2-C	3930FFJ2-C	4230FFJ2-C	4530FFJ2-C	4830FFJ2-C	5130FFJ2-C	5430FFJ2-C
3300		2433FFJ2-Z	2733FFJ2-Z	3033FFJ2-Z	3333FFJ2-Z	3633FFJ2-Z	3933FFJ2-Z	4233FFJ2-Z	4533FFJ2-Z	4833FFJ2-Z	5133FFJ2-Z	5433FFJ2-Z
		2433FFJ2-C	2733FFJ2-C	3033FFJ2-C	3333FFJ2-C	3633FFJ2-C	3933FFJ2-C	4233FFJ2-C	4533FFJ2-C	4833FFJ2-C	5133FFJ2-C	5433FFJ2-C
3600					3336FFJ2-Z	3636FFJ2-Z	3936FFJ2-Z	4236FFJ2-Z	4536FFJ2-Z	4836FFJ2-Z	5136FFJ2-Z	5436FFJ2-Z
					3336FFJ2-C	3636FFJ2-C	3936FFJ2-C	4236FFJ2-C	4536FFJ2-C	4836FFJ2-C	5136FFJ2-C	5436FFJ2-C
3900							3939FFJ2-Z	4239FFJ2-Z	4539FFJ2-Z	4839FFJ2-Z	5139FFJ2-Z	5439FFJ2-Z
							3939FFJ2-C	4239FFJ2-C	4539FFJ2-C	4839FFJ2-C	5139FFJ2-C	5439FFJ2-C
4200								4242FFJ2-Z	4542FFJ2-Z	4842FFJ2-Z	5142FFJ2-Z	5442FFJ2-Z
								4242FFJ2-C	4542FFJ2-C	4842FFJ2-C	5142FFJ2-C	5442FFJ2-C
4500									4545FFJ2-Z	4845FFJ2-Z	5145FFJ2-Z	5445FFJ2-Z
									4545FFJ2-C	4845FFJ2-C	5145FFJ2-C	5445FFJ2-C
4800										4848FFJ2-Z	5148FFJ2-Z	5448FFJ2-Z
										4848FFJ2-C	5148FFJ2-C	5448FFJ2-C
5100											5151FFJ2-Z	5451FFJ2-Z
											5151FFJ2-C	5451FFJ2-C
											5154FFJ2-Z	5454FFJ2-Z
											5154FFJ2-C	5454FFJ2-C
5400												

C—中装 Z—侧装

图名 FFJ2无机复合双轨防火卷帘选用表(一)

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FFJ2 无机复合双轨 防火卷帘选用表(二)

洞宽W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
洞高H												
2400	5724FFJ2-C	6024FFJ2-C	6324FFJ2-C	6624GFJ2-C	6924FFJ2-C	7224FFJ2-C	7524FFJ2-C	7824FFJ2-C	8124FFJ2-C	8424FFJ2-C	8724FFJ2-C	9024FFJ2-C
2700	5727FFJ2-Z	6027FFJ2-Z	6327FFJ2-Z	6627FFJ2-Z	6927FFJ2-Z	7227FFJ2-Z	7527FFJ2-Z	7827FFJ2-Z	8127FFJ2-Z	8427FFJ2-Z	8727FFJ2-Z	9027FFJ2-Z
3000	5727FFJ2-C	6027FFJ2-C	6327FFJ2-C	6627FFJ2-C	6927FFJ2-C	7227GFJ2-C	7527FFJ2-C	7827FFJ2-C	8127FFJ2-C	8427FFJ2-C	8727FFJ2-C	9027FFJ2-C
3300	5730FFJ2-Z	6030FFJ2-Z	6330FFJ2-Z	6630FFJ2-Z	6930FFJ2-Z	7230FFJ2-Z	7530FFJ2-Z	7830FFJ2-Z	8130FFJ2-Z	8430FFJ2-Z	8730FFJ2-Z	9030FFJ2-Z
3600	5730FFJ2-C	6030FFJ2-C	6330FFJ2-C	6630FFJ2-C	6930FFJ2-C	7230FFJ2-C	7530FFJ2-C	7830FFJ2-C	8130FFJ2-C	8430FFJ2-C	8730FFJ2-C	9030FFJ2-C
3900	5733FFJ2-Z	6033FFJ2-Z	6333FFJ2-Z	6633FFJ2-Z	6933FFJ2-Z	7233FFJ2-Z	7533FFJ2-Z	7833FFJ2-Z	8133FFJ2-Z	8433FFJ2-Z	8733FFJ2-Z	9033FFJ2-Z
4200	5733FFJ2-C	6033FFJ2-C	6333GFJ2-C	6633FFJ2-C	6933FFJ2-C	7233FFJ2-C	7533FFJ2-C	7833FFJ2-C	8133FFJ2-C	8433FFJ2-C	8733FFJ2-C	9033FFJ2-C
4500	5736FFJ2-Z	6036FFJ2-Z	6336GFJ2-Z	6636FFJ2-Z	6936FFJ2-Z	7236FFJ2-Z	7536FFJ2-Z	7836FFJ2-Z	8136FFJ2-Z	8436FFJ2-Z	8736FFJ2-Z	9036FFJ2-Z
4800	5736FFJ2-C	6036FFJ2-C	6336GFJ2-C	6636FFJ2-C	6936FFJ2-C	7236FFJ2-C	7536FFJ2-C	7836FFJ2-C	8136FFJ2-C	8436FFJ2-C	8736FFJ2-C	9036FFJ2-C
5100	5739FFJ2-Z	6039FFJ2-Z	6339GFJ2-Z	6639FFJ2-Z	6939FFJ2-Z	7239FFJ2-Z	7539FFJ2-Z	7839FFJ2-Z	8139FFJ2-Z	8439FFJ2-Z	8739FFJ2-Z	9039FFJ2-Z
5400	5739FFJ2-C	6039FFJ2-C	6339FFJ2-C	6639FFJ2-C	6939FFJ2-C	7239FFJ2-C	7539FFJ2-C	7839FFJ2-C	8139FFJ2-C	8439FFJ2-C	8739FFJ2-C	9039FFJ2-C
5700	5742FFJ2-Z	6042FFJ2-Z	6342FFJ2-Z	6642FFJ2-Z	6942FFJ2-Z	7242FFJ2-Z	7542FFJ2-Z	7842FFJ2-Z	8142FFJ2-Z	8442FFJ2-Z	8742FFJ2-Z	9042FFJ2-Z
6000	5742FFJ2-C	6042FFJ2-C	6342FFJ2-C	6642FFJ2-C	6942FFJ2-C	7242FFJ2-C	7542FFJ2-C	7842FFJ2-C	8142FFJ2-C	8442FFJ2-C	8742FFJ2-C	9042FFJ2-C
6300	5745FFJ2-Z	6045FFJ2-Z	6345FFJ2-Z	6645FFJ2-Z	6945FFJ2-Z	7245FFJ2-Z	7545FFJ2-Z	7845FFJ2-Z	8145FFJ2-Z	8445FFJ2-Z	8745FFJ2-Z	9045FFJ2-Z
6600	5745FFJ2-C	6045FFJ2-C	6345FFJ2-C	6645FFJ2-C	6945FFJ2-C	7245FFJ2-C	7545FFJ2-C	7845FFJ2-C	8145FFJ2-C	8445FFJ2-C	8745FFJ2-C	9045FFJ2-C
6900	5748FFJ2-Z	6048FFJ2-Z	6348FFJ2-Z	6648FFJ2-Z	6948FFJ2-Z	7248FFJ2-Z	7548FFJ2-Z	7848FFJ2-Z	8148FFJ2-Z	8448FFJ2-Z	8748FFJ2-Z	9048FFJ2-Z
7200	5748FFJ2-C	6048FFJ2-C	6348FFJ2-C	6648FFJ2-C	6948FFJ2-C	7248FFJ2-C	7548FFJ2-C	7848FFJ2-C	8148FFJ2-C	8448FFJ2-C	8748FFJ2-C	9048FFJ2-C
7500	5751FFJ2-Z	6051FFJ2-Z	6351FFJ2-Z	6651FFJ2-Z	6951FFJ2-Z	7251FFJ2-Z	7551FFJ2-Z	7851FFJ2-Z	8151FFJ2-Z	8451FFJ2-Z	8751FFJ2-Z	9051FFJ2-Z
7800	5751FFJ2-C	6051FFJ2-C	6351FFJ2-C	6651FFJ2-C	6951FFJ2-C	7251FFJ2-C	7551FFJ2-C	7851FFJ2-C	8151FFJ2-C	8451FFJ2-C	8751FFJ2-C	9051FFJ2-C
8100	5754FFJ2-Z	6054FFJ2-Z	6354FFJ2-Z	6654FFJ2-Z	6954FFJ2-Z	7254FFJ2-Z	7554FFJ2-Z	7854FFJ2-Z	8154FFJ2-Z	8454FFJ2-Z	8754FFJ2-Z	9054FFJ2-Z
8400	5754FFJ2-C	6054FFJ2-C	6354FFJ2-C	6654FFJ2-C	6954FFJ2-C	7254FFJ2-C	7554FFJ2-C	7854FFJ2-C	8154FFJ2-C	8454FFJ2-C	8754FFJ2-C	9054FFJ2-C

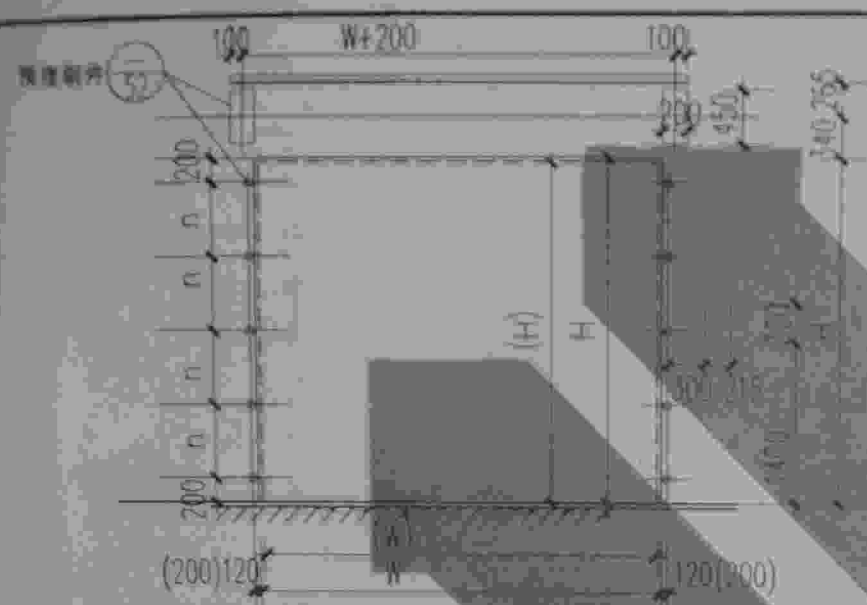
C—中装 Z—侧装

图名 FFJ2无机复合双轨防火卷帘选用表(二)

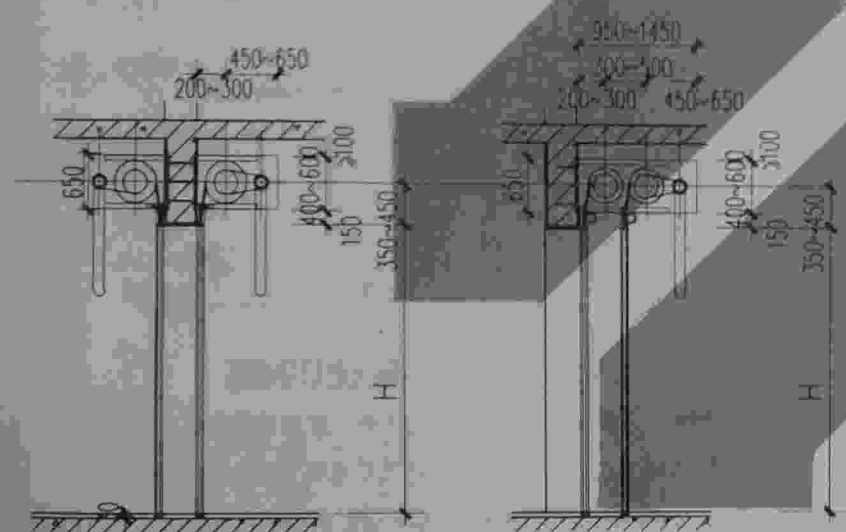
页次

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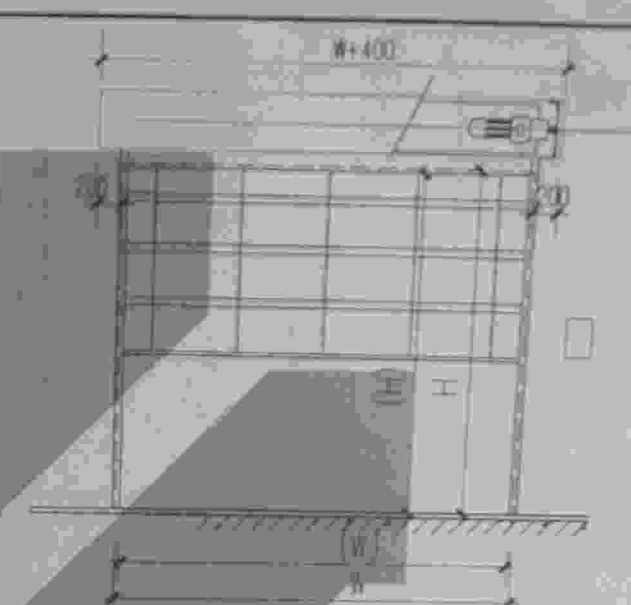


FFJ2 无机复合双轨(侧装)防火卷帘门洞口预埋铁位置图

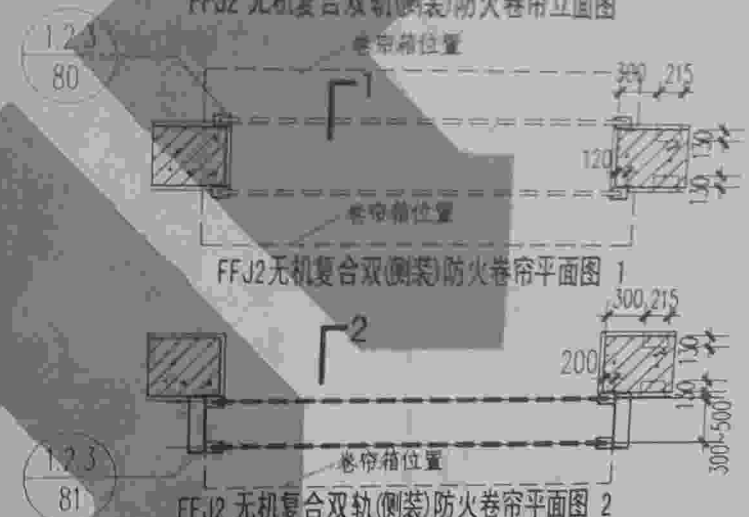


1-1 剖面

2-2 剖面



FFJ2 无机复合双轨(侧装)防火卷帘立面图

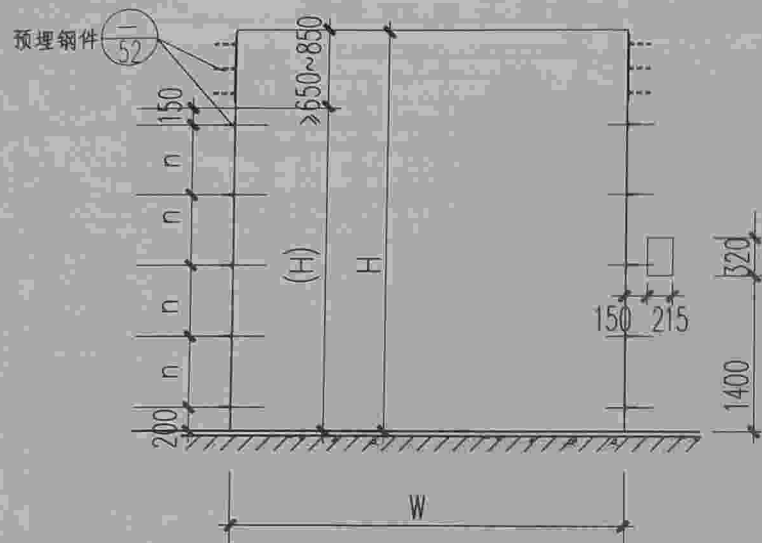


FFJ2 无机复合双(侧装)防火卷帘平面图 2

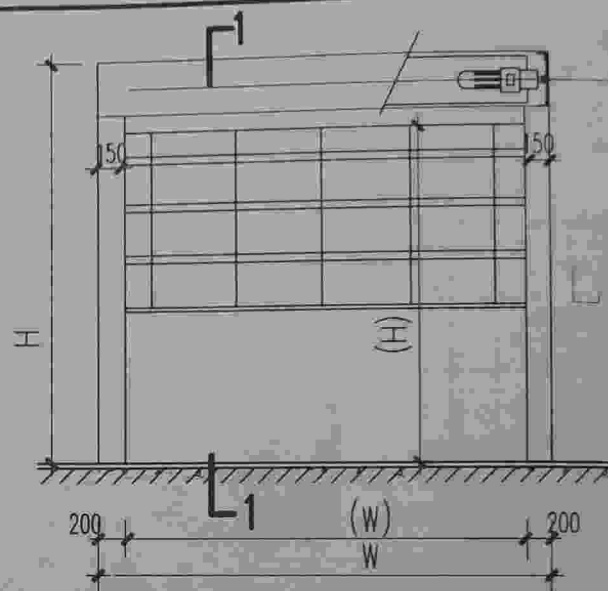
说明 无机复合双轨防火卷帘,双轨中间300~500mm空气层增强了防火隔热性能,不需水幕喷淋系统保护,防火等级达到F5(特级),耐火极限4小时。

图名	FFJ2 无机复合双轨(侧装)防火卷帘详图	图集号	88J13-4
		页次	76

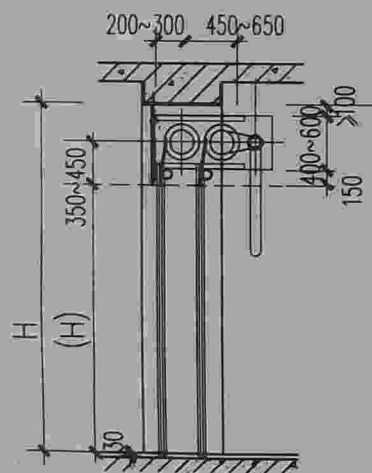
2007/07/12



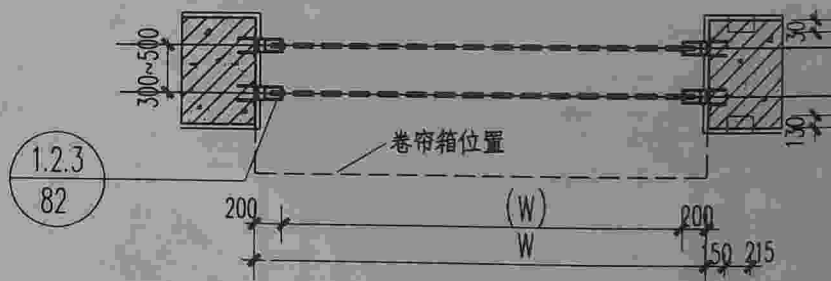
FFJ2 无机复合双轨(中装)防火卷帘门洞口预埋铁位置图



FFJ2 无机复合双轨(中装)防火卷帘立面图



1-1剖面



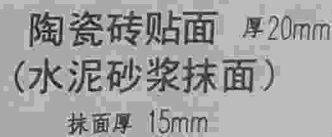
FFJ2 无机复合双轨(中装)防火卷帘平面图

说明：无机复合防火卷帘体积小，重量轻，价格低，运行平稳，耐酸碱抗锈蚀。
无机复合双轨防火卷帘，双轨中间300~500mm空气层增强了防火隔热性能，
不需水幕喷淋系统保护防火等级达到F5(特级)，耐火极限≥4小时。

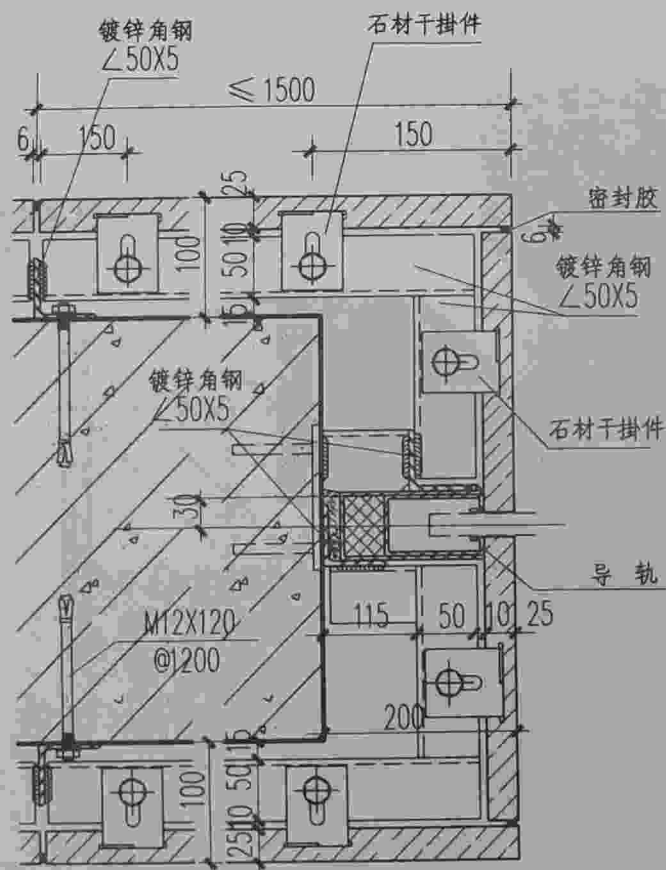
图名 FFJ2 无机复合双轨(中装)防火卷帘详图

图集号 88J13-4

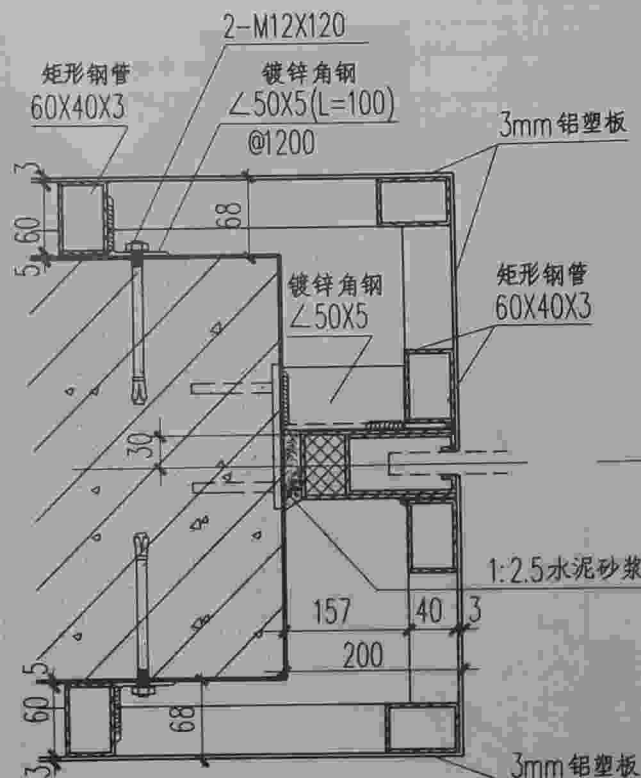
2007/07/12



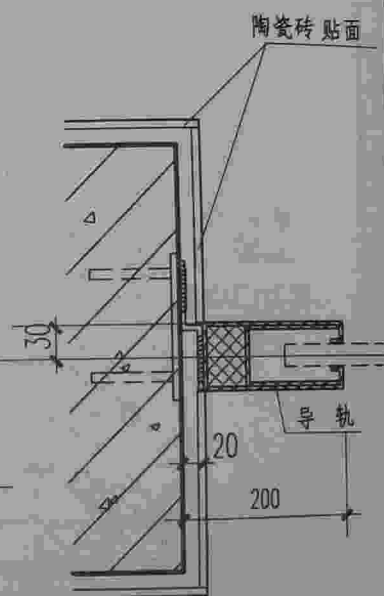
2007/07/12



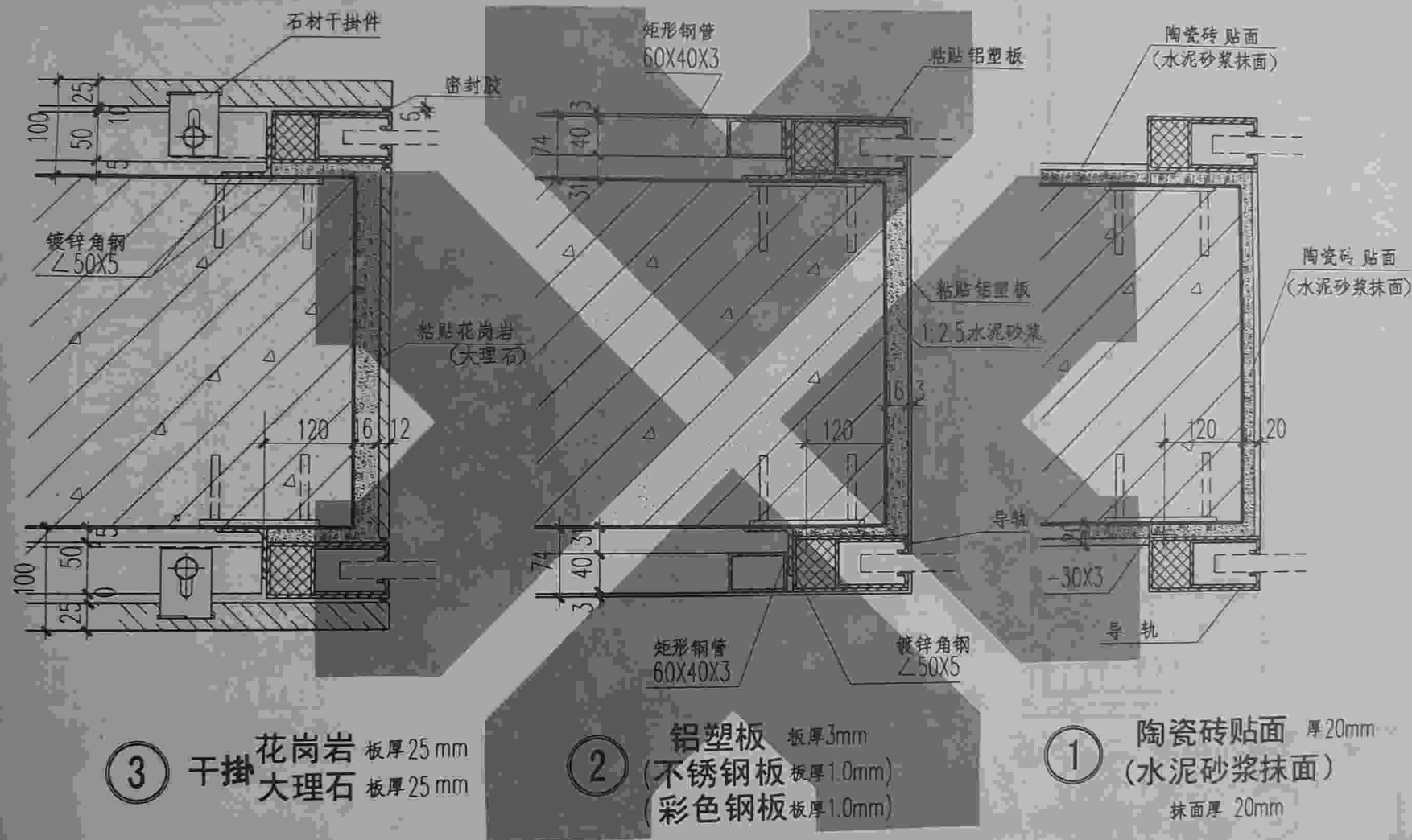
③ 干挂花岗岩 板厚25mm
大理石 板厚25mm

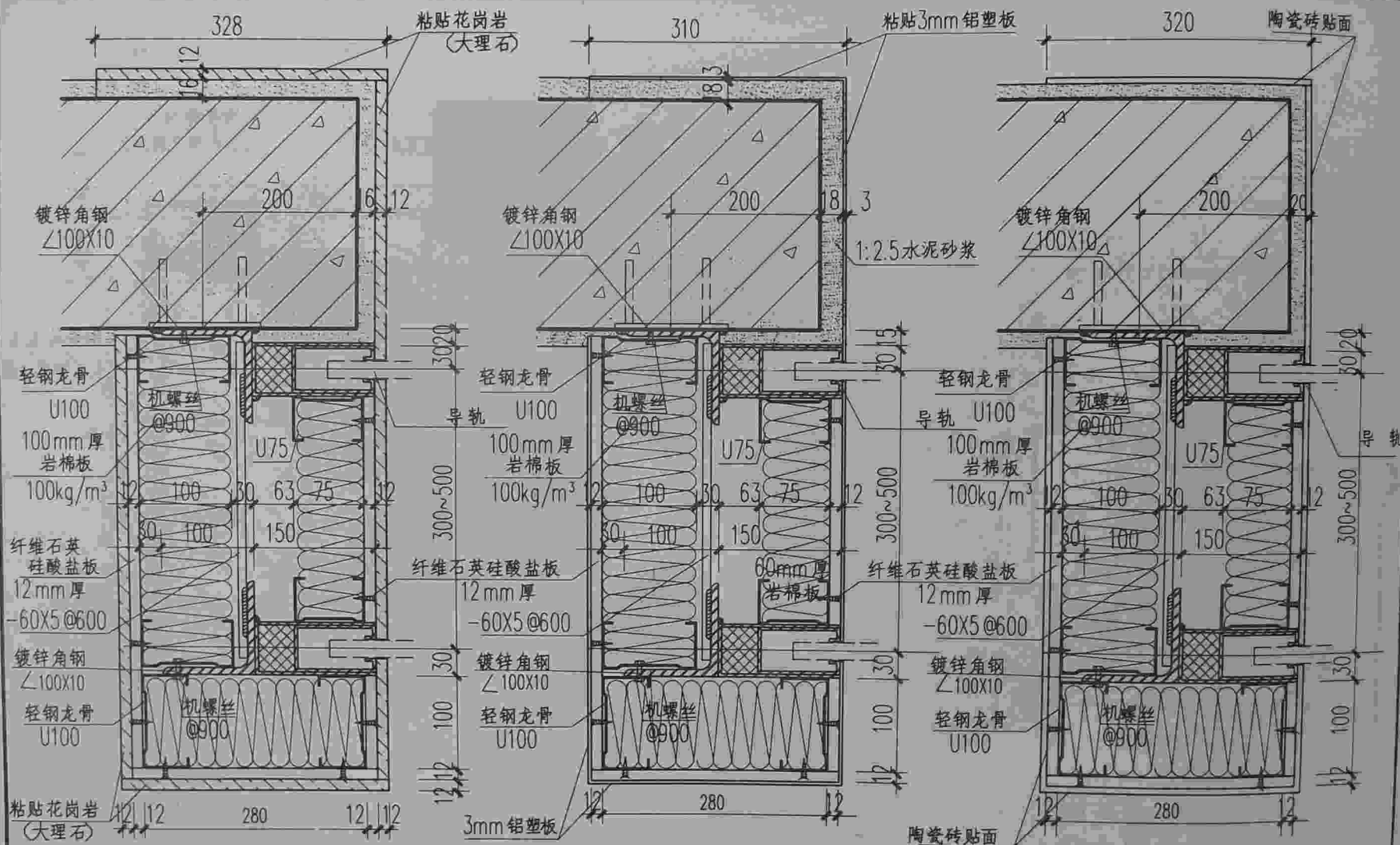


② 铝塑板 板厚3mm
(不锈钢板 板厚0.8mm)
(彩色钢板 板厚0.8mm)



① 陶瓷砖贴面 厚20mm
(水泥砂浆抹面)
抹面厚15mm

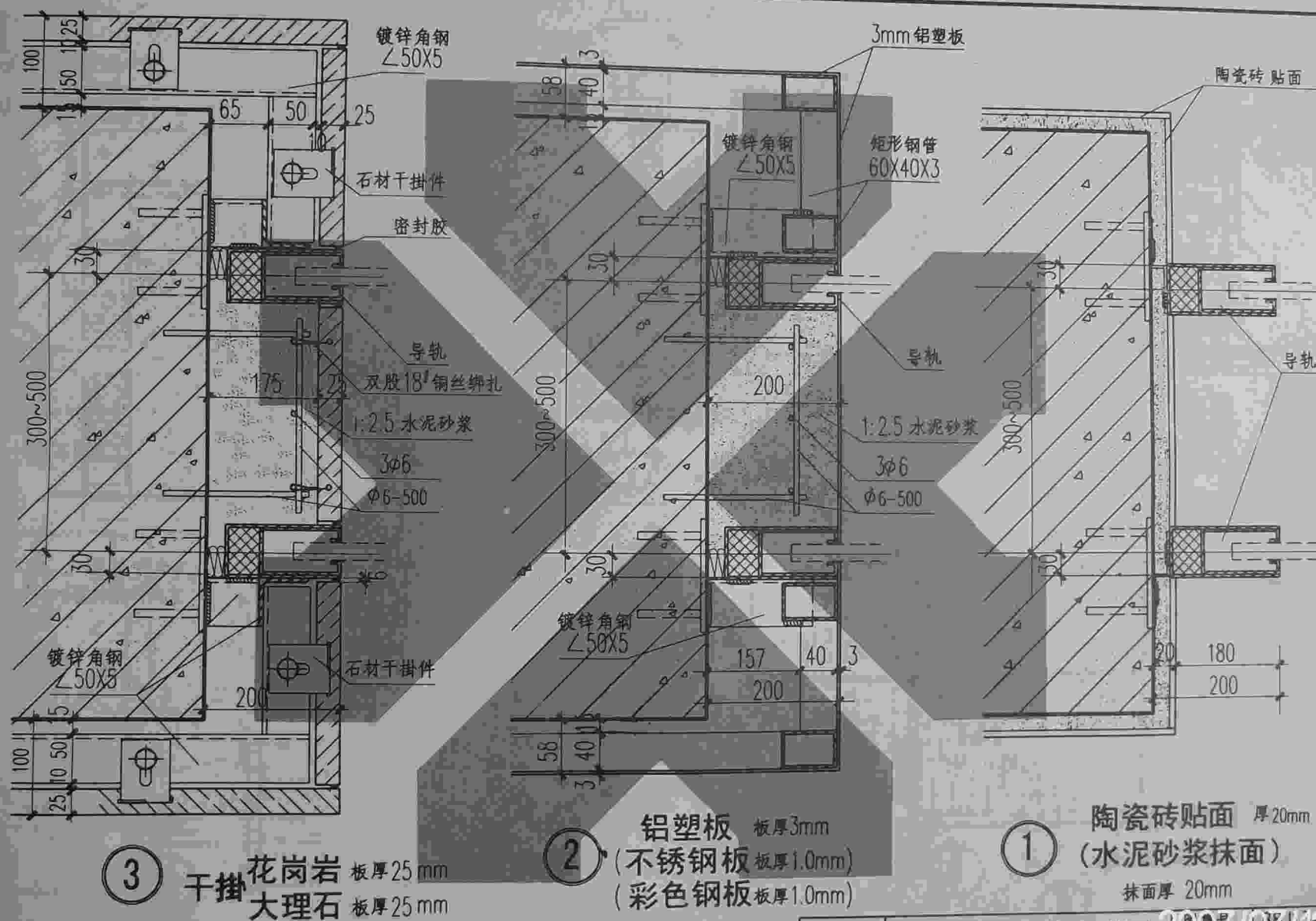




③ 粘贴花岗岩板厚25mm
大理石板厚25mm

② 铝塑板 板厚3mm
(不锈钢板 板厚0.8mm)
(彩色钢板 板厚0.8mm)

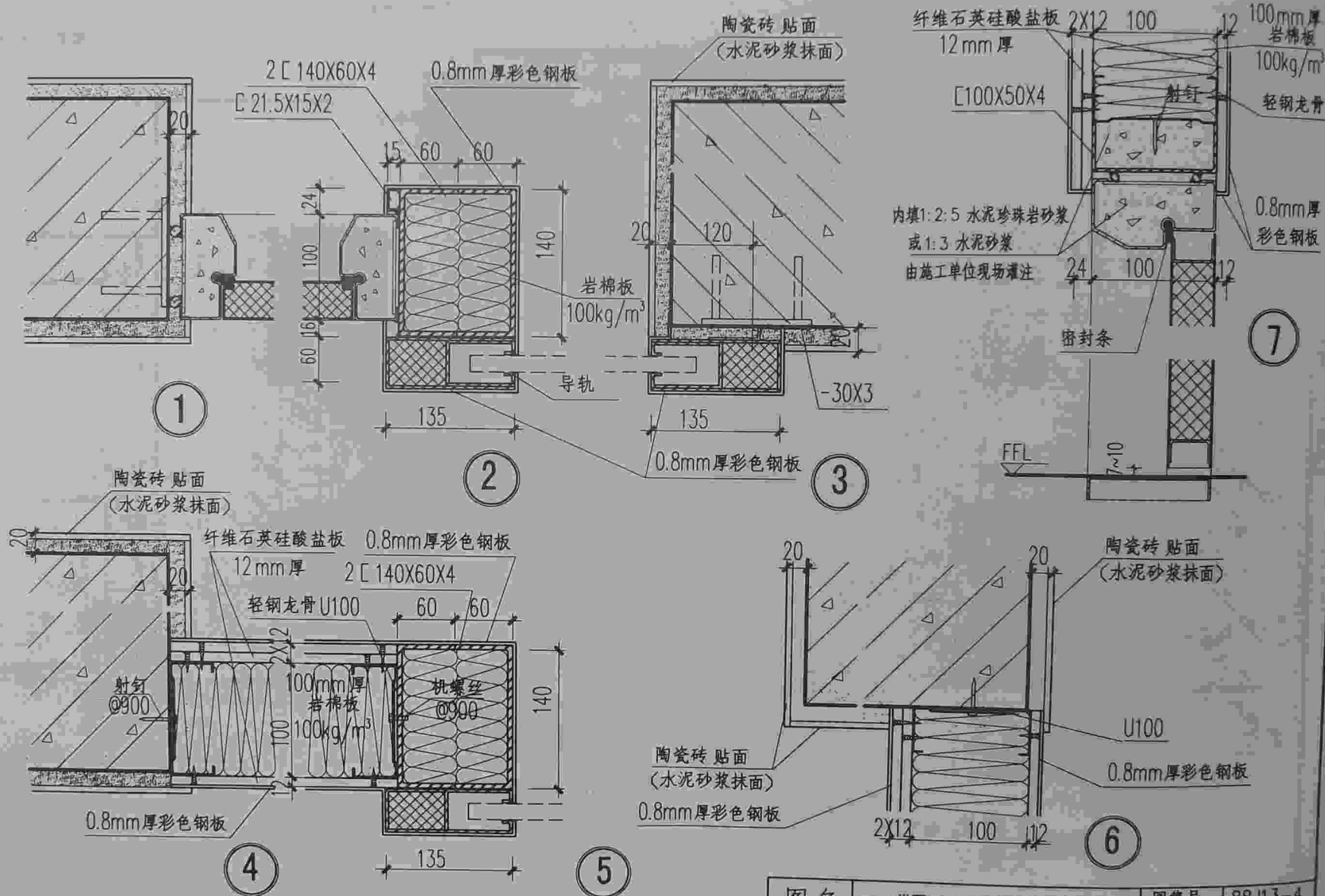
① 陶瓷砖贴面



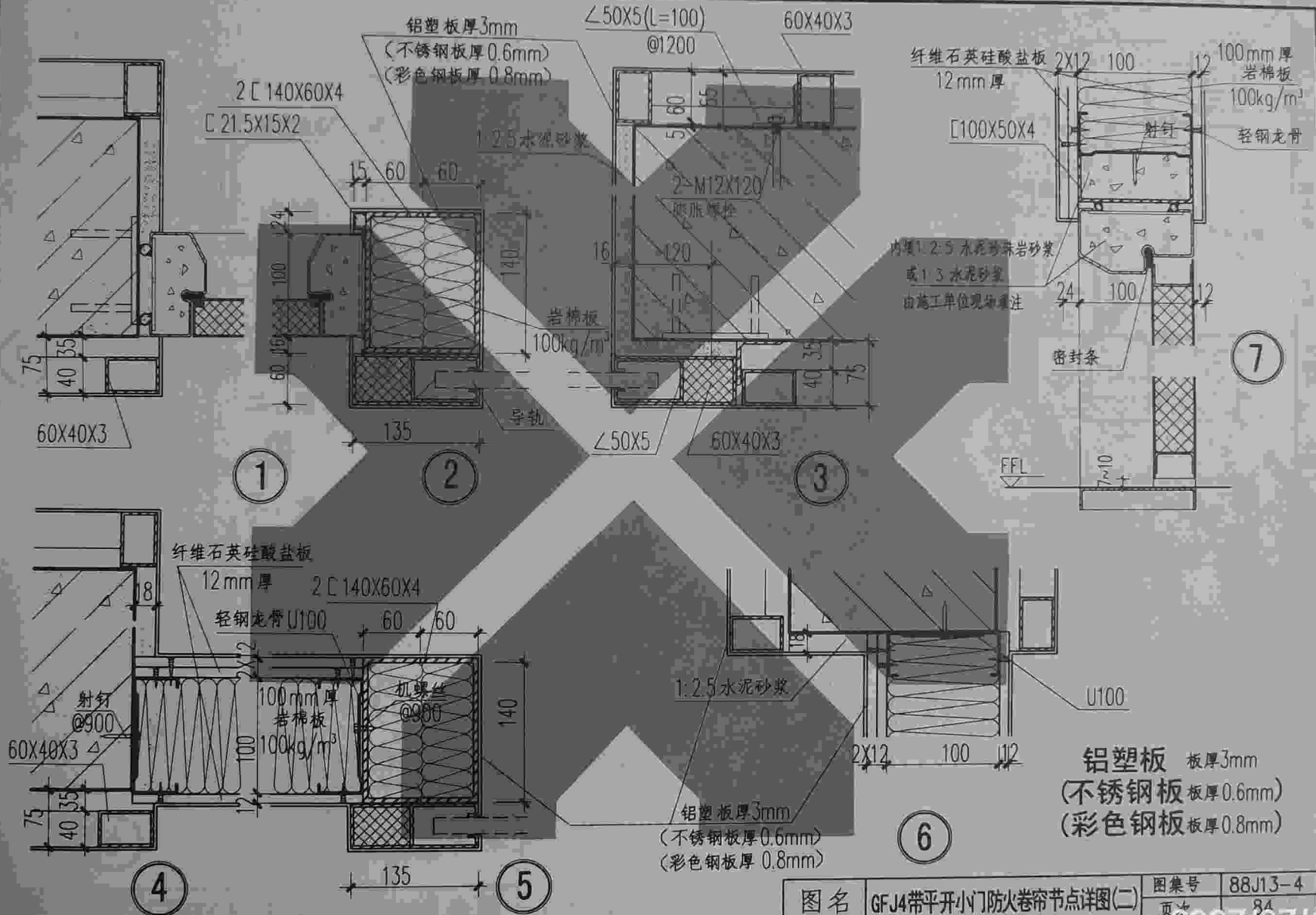
③ 干挂花岗岩 板厚25mm
大理石 板厚25mm

② 铝塑板 板厚3mm
(不锈钢板 板厚1.0mm)
(彩色钢板 板厚1.0mm)

① 陶瓷砖贴面 厚20mm
(水泥砂浆抹面)
抹面厚 20mm



图名 GFJ4带平开小门防火卷帘节点详图 (2007/07/12)



图名 GFJ4带平开小门防火卷帘节点详图(二) 图集号 88J13-4 页次 84

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