

防火门窗

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说 明

1 设计依据

本图集依据下列文件、标准、规范编制:

- 1.1 建设部建设[2002]110号《二〇〇二年国家建筑标准设计编制工作计划》
- 1.2 《建筑设计防火规范》GBJ16-87(2001年版)
- 1.3 《高层民用建筑设计防火规范》GB50045-95(2001年版)
- 1.4 《建筑门窗洞口尺寸条例》GB5824-86
- 1.5 《建筑木门木窗》JG/T 122-2000
- 1.6 《钢质防火门通用技术条件》GB12955-91
- 1.7 《钢质防火卷帘通用技术条件》GB14102-93
- 1.8 《木质防火门通用技术条件》GB14101-93
- 1.9 《钢质防火窗》GB16809-1997
- 1.10 《门和卷帘的耐火试验方法》GB/T 7633-87

2 适用范围

本图集适用于民用建筑及工业建筑用防火门窗。

3 设计原则

本图集力图采用新材料、新构造,提高防火门窗的性能质量,改善外观,增加品种,以满足建筑工程发展和改善人民生活环境的需要。

4 耐火极限

按规范规定防火门窗的耐火极限分为三级,即:甲级防火门窗耐火极限为1.2h,乙级为0.9h,丙级为0.6h。工程设计中所用防火门窗的耐火极限由工程设计者根据防火规范确定,并在工程设计图纸中标明。

5 平开防火门

5.1 钢防火门

5.1.1 耐火性能试验要求

钢防火门的耐火性能按GB/T 7633进行试验。带玻璃的钢防火门,凡每

扇门的玻璃面积 $\leq 0.065\text{m}^2$ 者,可不测该玻璃上的背火面温度。玻璃面积超过 0.065m^2 者,应按GB/T7633测点布置方法测定背火面温度。门上部的亮子玻璃中心增测背火面温度。若该玻璃面积 $\geq 1.0\text{m}^2$ 者,应同时测定其热辐射温度。甲级钢防火门上所镶的玻璃及亮子玻璃,至少应有一个测点测定其背火面温度。

5.1.2 材料与配件

钢防火门的门框、门扇面板及其加固件应采用冷轧薄钢板。门框宜采用1.2~1.5mm厚钢板,门扇面板宜采用0.8~1.2mm厚钢板。加固件宜采用1.2~1.5mm厚钢板。加固件如设有螺孔,钢板厚度应不小于3.0mm。门扇、门框内应用不燃性材料填实。门锁、合页、插销等五金配件的熔融温度不低于 950°C 。门上的合页不得使用双向弹簧,单扇门应设闭门器。双扇门间必须带有盖板缝,并装设闭门器和顺序器等(常闭的防火门除外)。门框宜设密封槽,槽内应嵌装由不燃性材料制成的密封条。

防火门的焊接应牢固,焊点分布均匀,不得出现假焊和烧穿现象,外表应打磨平整。

门的尺寸与公差应符合GB12955-91标准5.3条的规定。

5.2 木防火门

5.2.1 耐火性能试验要求

木防火门的耐火性能按GB/T 7633进行试验。对带玻璃的木防火门,凡每扇门的玻璃面积超过 0.10m^2 者,应按GB/T 7633测点布置方法测定玻璃的背火面温度。若玻璃面积不超过 0.10m^2 者,可不测其背火面温度。带有玻璃上亮子的木防火门,其上亮子玻璃的总面积如果超过 0.5m^2 应在玻璃中心部位100mm范围内测其背火面温度。如果玻璃面积超过 1.0m^2 者,还应同

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时测定其热辐射强度。

5.2.2 其它试验

除耐火性能试验外，尚须作木材含水率测定、门开启力的测定、沙袋撞击试验、风压变形性能试验（指外门）、气密性试验（指外门）及水密性试验（指外门）等。

5.2.3 材料及五金配件

木材的选材标准应符合 GB14101-93表2的规定。木材应采用窖干法干燥，其含水率不应大于12%。当受条件限制，除东北落叶松、云南松、马尾松、桦木等易变形的树种外，可采用气干木材，其制作时的含水率不应大于当地的平衡含水率。宜采用经阻燃处理的优质木材。

填充材料应符合《建筑材料不燃性试验方法》GB5464-85 中第7条的规定。

玻璃应采用不影响防火门耐火性能试验的合格产品。

五金配件应是经国家消防检测机构检测合格的定型配套产品。

双扇门应装有顺序器，门的制作、安装要求均见 GB14101-93。

门拉手中心距地1000mm。

6 防火卷帘

6.1 钢防火卷帘

6.1.1 耐火时间:按 GB14102-93 规定

普通型钢防火卷帘 F1 1.5h F2 2.0h

复合型钢防火卷帘 F3 2.5h F4 3.0h

耐火性能按 GB7633 的规定进行耐火性能试验。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。这段时间称为耐火极限，用以决定钢防火卷帘的耐火性能等级。

6.1.2 主要材料

帘板、座板、导轨、门楣、箱体应采用镀锌钢板和钢带，以及普通碳素

结构钢。卷轴用优质碳素结构钢或普通碳素结构钢，以及电焊钢管或无缝钢管。支座应用普通碳素结构钢或灰口铸铁。帘板厚 1.2~2.0mm、掩埋型导轨厚 1.5~2.5mm、外露型钢板导轨厚度 ≥3.0mm。帘板嵌入导轨的深度应符合表 6.1.2 要求。

表 6.1.2

洞口宽度 W (mm)	每端嵌入最小长度 (mm)
W<3000	45
3000≤W<5000	50
5000≤W<9000	60

6.1.3 钢防火卷帘的耐风压性能（帘板强度）：在规定荷载下其导轨与帘板不脱落，同时其变形挠度须符合表 6.1.3 要求。

表 6.1.3

强度类别代号	耐风压 (Pa)	挠度 (mm)					
		B≤2.5m	B=3m	B=4m	B=5m	B=6m	B>6m
50	490.3	25	30	40	50	60	90
80	784.5	37.5	45	60	75	90	135
120	1176.8	50	60	80	100	120	180

6.1.4 钢防火卷帘的防烟性能：在压差为20Pa时漏烟量应小于0.2m³/m² min。

6.1.5 安装要求：钢防火卷帘安装在建筑物墙体上，应与墙内埋件焊接或预埋螺栓连接，也可用膨胀螺栓安装，但其锚固强度必须满足要求。其他要求均见GB14102-93。

6.2 无机布基防火卷帘及水雾式无机布基特级防火卷帘

无机布基防火卷帘系防火卷帘的新品种，帘面采用膨化硅酸铝纤维布外

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涂耐火胶为基材,该卷帘加水喷雾保护,其耐火极限可 $\geq 3h$,达到特级防火卷帘要求。其传动结构沿用钢防火卷帘的形式,具有钢防火卷帘的防火功能和性能。其优点是重量轻、体积小、运行平稳、噪音低、外观好。

6.3 双轨无机布基特级防火卷帘

双轨无机布基特级防火卷帘系用无机布面料制作的双层防火卷帘。其最大优点是无须水幕保护,可节省可观的消防用水。一般的钢防火卷帘或单轨无机布基防火卷帘为满足防火要求须加有水幕或水喷雾保护。

双轨特级防火卷帘其他特点是:运行平稳、噪音低;能达到GB9978-99所规定的防火墙同等耐火性能;外观好、施工方便。

6.4 水雾式钢特级防火卷帘:此种卷帘的材料与钢防火卷帘基本相同,所设水雾保证其达到 $3h$ 耐火极限,并能节约大量消防用水。

6.5 侧向钢防火卷帘:卷帘箱竖直放置,帘板悬挂在上方导轨内,适用于大跨度、曲线形空间场所的防火隔断。

6.6 水平钢防火卷帘:其用料、构造及作用与钢防火卷帘类似。适用于自动扶梯或其它水平洞口的水平防火隔断。

6.7 带平开门防火卷帘:左侧的防火平开门为常闭型,作人员疏散用,右侧的防火卷帘作防火隔断用。选用时须加注平开门型号及卷帘型号。

7 钢防火窗

钢防火窗系指用钢材作框架,在一定时间内能满足耐火稳定性,耐火完整性和耐绝热性的窗。防火窗分固定式和活动式。本图集只列入固定式。

材料:钢材应符合相应钢材标准中的规定。可用普通碳素钢,也可用不锈钢。窗框与玻璃之间的密封材料应为不燃材料或难燃材料,其制作、安装要求均见GB16809-1997。

8 防火门窗的涂料

防火门窗的钢材或木材表面均须有涂料防护及装饰。对钢、木防火门窗的表面防护要求如下:

8.1 防火门窗的钢构件除镀锌件或制造时已按规定作了防护涂料,可不另作处理外,均须经除锈(除锈等级不低于Sa2.5级或St3级)后涂醇酸铁红底漆一道,涂醇酸瓷漆两道,醇酸清漆一道。

8.2 木防火门表面经刨光打磨后涂醇酸清漆一道,醇酸腻子嵌缝,刮平、打磨,涂醇酸瓷漆两道,醇酸清漆一道。

防火门窗所用的玻璃一般为复合型防火玻璃、灌浆型防火玻璃或铯钾玻璃,其耐火极限与其厚度及构造有关,须经严格的检测确定。

9 门型及代号

本图集的防火门按材料构造分为钢防火门、木夹板防火门、模压板防火门等。按开启方式分为平开门和卷帘门。

9.1 平开门:应为向疏散方向开启的平开门,并在关闭后应能从任何一侧手动开启。

用于疏散的走道、楼梯间和前室的防火门,应具有自动关闭的功能。双扇和多扇防火门,还应具有按顺序关闭的功能。

9.2 防火卷帘:防火卷帘可作为防火门之用,其耐火极限按防火门要求可用普通防火卷帘加水幕保护,也可作为防火分隔之用,即在设置防火墙确有困难的场所,可采用防火卷帘作防火分区分隔。当采用包括背火面温升作耐火极限判定条件的防火卷帘时,其耐火极限不低于 $3.00h$;当采用不包括背火面温升作耐火极限判定条件的防火卷帘时,其卷帘两侧应设独立的闭式自动喷水保护,系统喷水延续时间不应小于 $3.00h$ 。

设在走道上的防火卷帘,应在卷帘的两侧设置启闭装置,并应具有自动、手动和机械控制的功能。

本图集的防火卷帘包括普通型钢防火卷帘,复合型钢防火卷帘,无机布

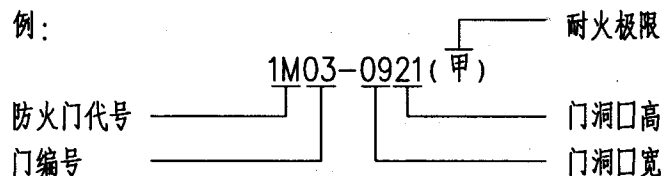
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基防火卷帘。按其不同的开启方向,则有钢防火卷帘、侧向卷帘及水平卷帘。

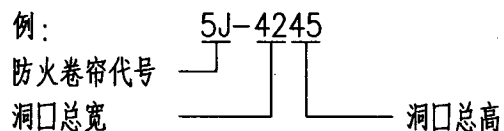
9.3 防火门窗及卷帘的代号

钢防火门:	1M
木夹板防火门:	2M
木夹板装饰防火门:	3M
模压板防火门:	4M
管道井防火门:	5M
钢防火卷帘:	1J
水雾式钢特级防火卷帘	2J
水雾式无机布基特级防火卷帘	3J
双轨无机布基特级防火卷帘	4J
带平开小门钢防火卷帘	5J
侧向钢防火卷帘	6J
水平钢防火卷帘	7J
钢防火窗	GC

9.4 门的索引方法

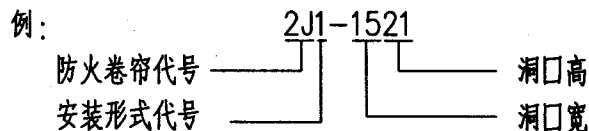


9.5 带平开小门防火卷帘索引方法



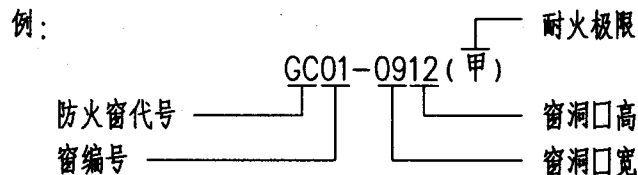
注: 5J洞口总宽 = 平开门洞口宽 + 钢柱宽 + 卷帘门洞口宽;
平开门洞口高 ≤ 5J卷帘门洞口高, 卷帘门洞口高 = 5J洞口总高。

9.6 卷帘索引方法

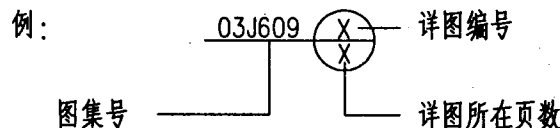


注: 防火卷帘门的安装分墙侧和墙中两种形式,墙侧代号为1,墙中代号为2。

9.7 窗的索引方法



9.8 本图集索引方法



10 本图集尺寸

本图集标注尺寸以毫米为单位。

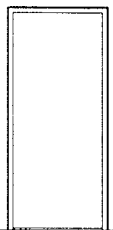
11 本图集参加编制单位

上海森林特种钢门有限公司。

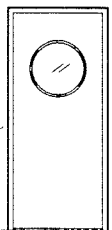
北京天明兴业科技发展有限公司(原北京新型防火装备厂)。

12 本图集代替《平开防火门》J656(-),《自动下滑防火门》CJ657及《固定防火窗》92SJ708图集。

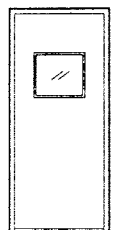
说 明					图集号	03J609
审核	王祖光	校对	王祖光	设计	张基萍	页 6



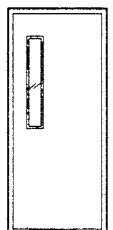
1M01—钢防火门
2M01—木夹板防火门



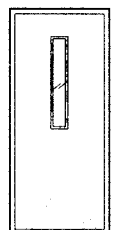
1M02—钢防火门
2M02—木夹板防火门



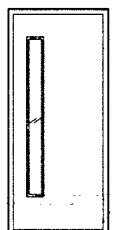
1M03—钢防火门
2M03—木夹板防火门



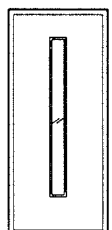
1M04—钢防火门
2M04—木夹板防火门



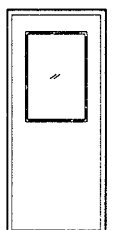
1M05—钢防火门
2M05—木夹板防火门



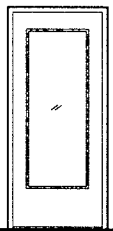
1M06—钢防火门
2M06—木夹板防火门



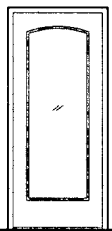
1M07—钢防火门
2M07—木夹板防火门



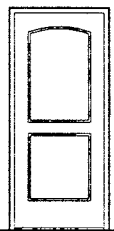
1M08—钢防火门
2M08—木夹板防火门



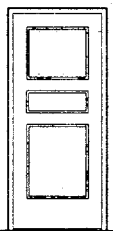
1M09—钢防火门
2M09—木夹板防火门



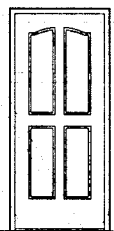
1M10—钢防火门
3M10—木夹板装饰防火门



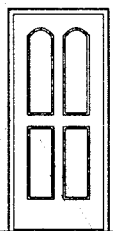
3M11—木夹板装饰防火门



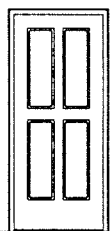
3M12—木夹板装饰防火门



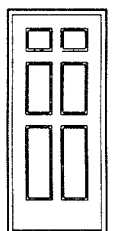
3M13—木夹板装饰防火门



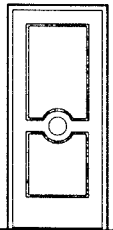
3M14—木夹板装饰防火门



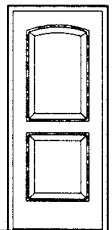
3M15—木夹板装饰防火门



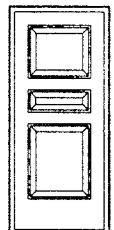
3M16—木夹板装饰防火门



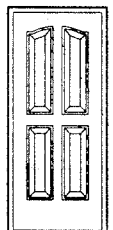
3M17—木夹板装饰防火门



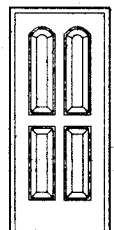
4M18—模压板防火门



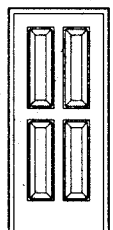
4M19—模压板防火门



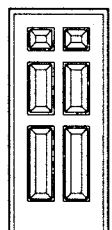
4M20—模压板防火门



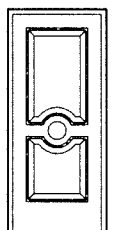
4M21—模压板防火门



4M22—模压板防火门



4M23—模压板防火门



4M24—模压板防火门

防火门类型及编号

图集号

03J609

审核

王沁光

校对

王岳

设计

张苏萍

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990								
			1M01-0820	1M01-0920	1M01-1020	1M01-1220	1M01-1520	1M01-1820	1M01-2120
2100	2090								
			1M01-0821	1M01-0921	1M01-1021	1M01-1221	1M01-1521	1M01-1821	1M01-2121
2400	2390								
			1M01-0824	1M01-0924	1M01-1024	1M01-1224	1M01-1524	1M01-1824	1M01-2124
2400	2390								
			1M011-0824	1M011-0924	1M011-1024	1M011-1224	1M011-1524	1M011-1824	1M011-2124

1M01 型钢防火门选用图(一)

图集号

03J609

审核

王沁光

校对

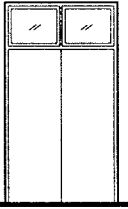
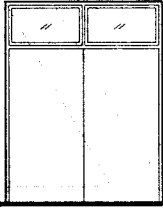
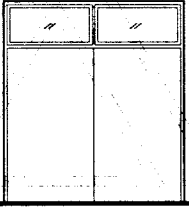
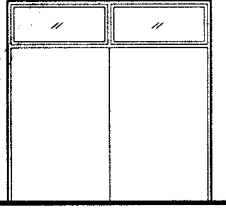
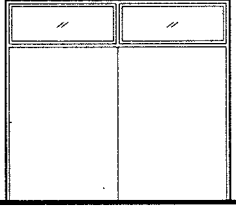
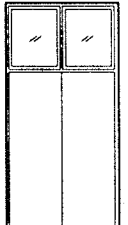
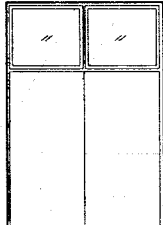
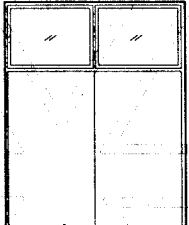
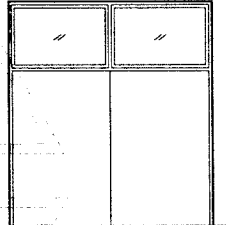
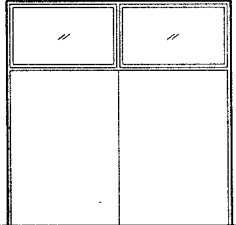
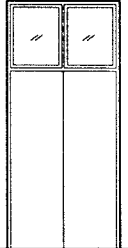
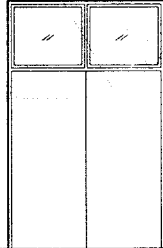
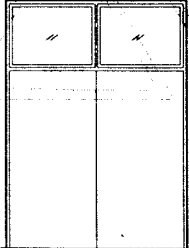
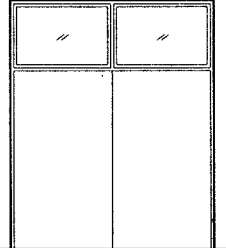
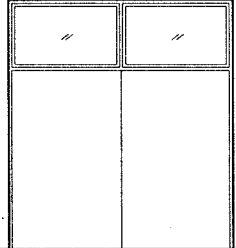
王沁光

设计

张其萍

页

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洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	45 42 558 2040 5  1M01-1527	 1M01-1827	 1M01-2127	 1M01-2427	 1M01-2727	 1M01-3027
		 1M01-1530	 1M01-1830	 1M01-2130	 1M01-2430	 1M01-2730	 1M01-3030
3300	3290	45 42 858 2340 5  1M01-1533	 1M01-1833	 1M01-2133	 1M01-2433	 1M01-2733	 1M01-3033

1M01 型钢防火门选用图(二)

图集号

03J609

审核

王祖光

校对

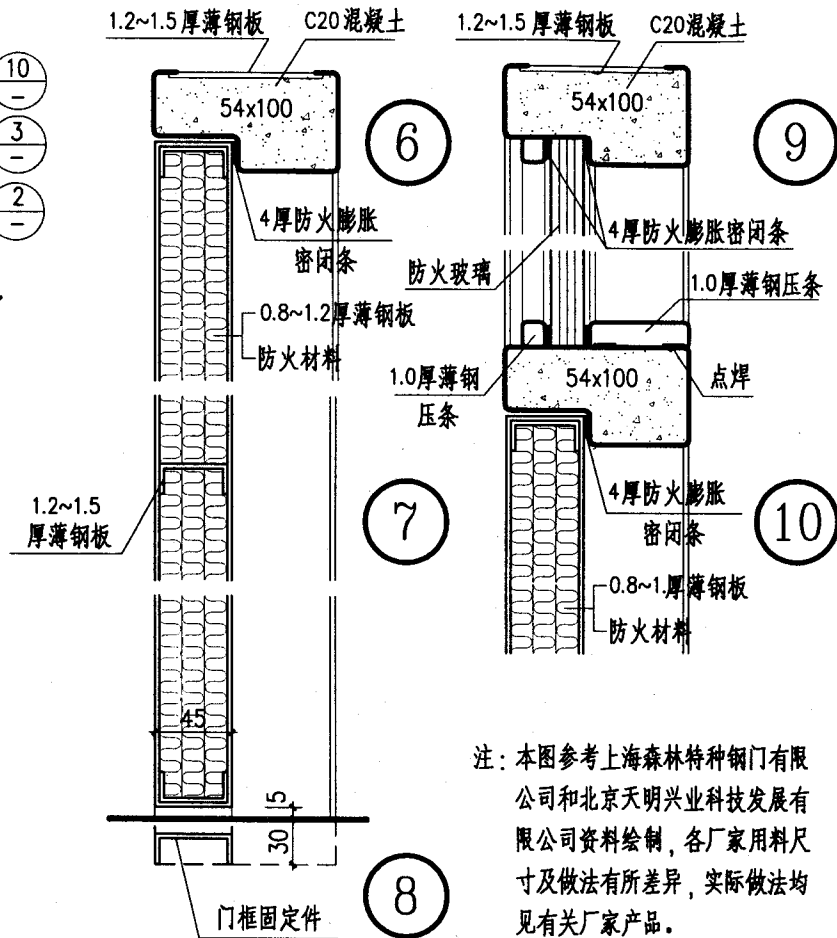
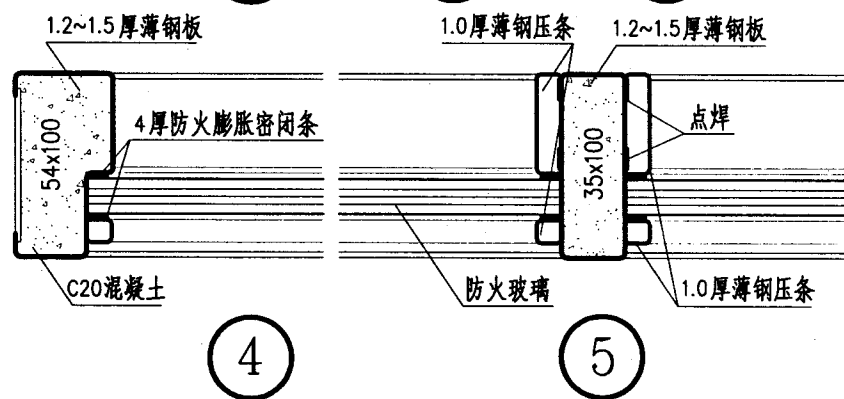
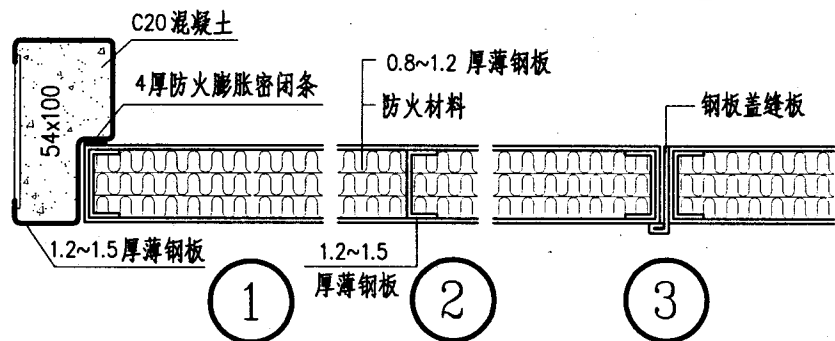
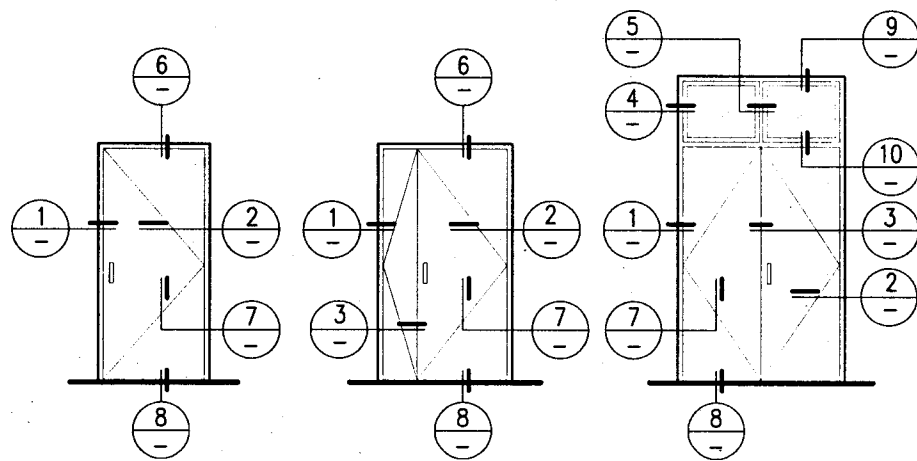
王祖光

设计

张苏萍

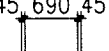
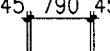
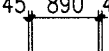
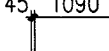
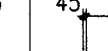
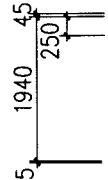
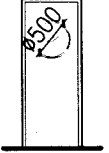
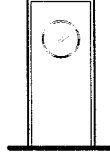
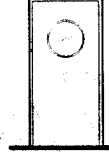
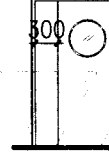
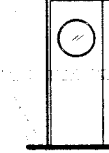
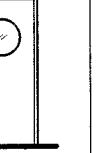
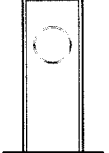
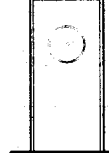
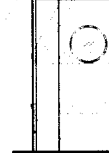
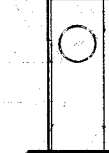
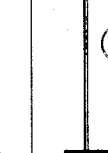
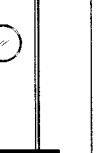
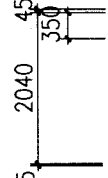
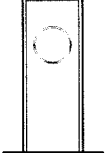
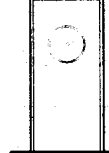
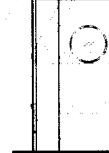
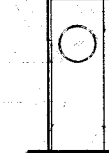
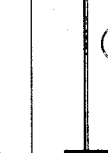
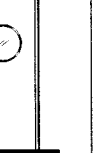
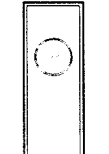
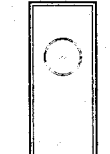
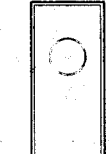
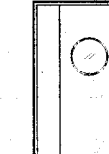
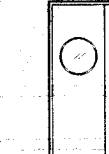
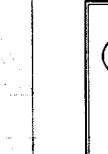
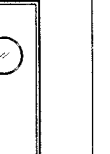
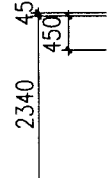
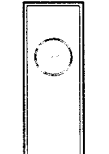
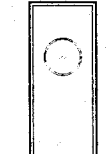
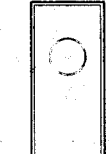
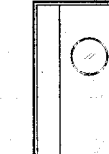
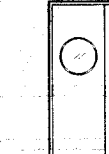
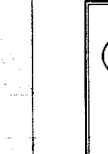
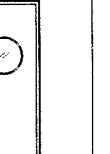
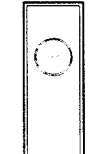
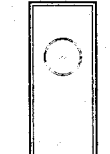
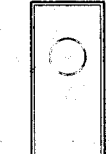
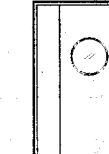
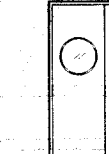
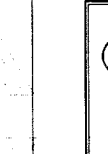
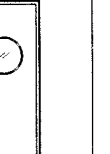
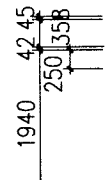
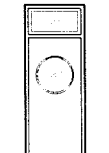
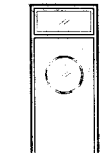
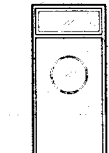
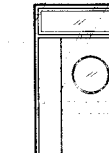
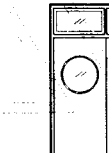
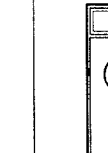
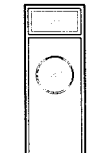
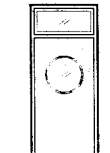
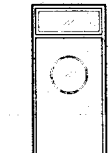
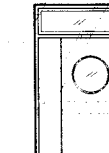
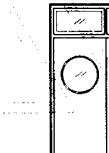
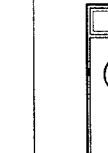
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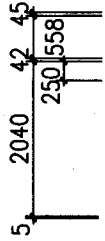
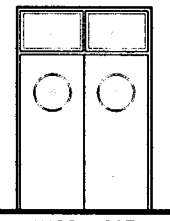
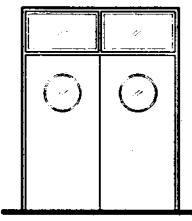
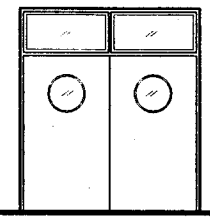
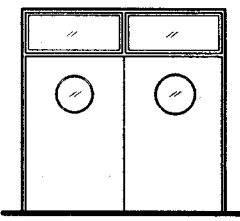
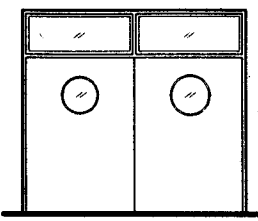
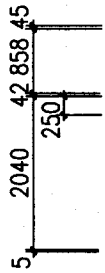
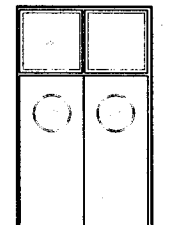
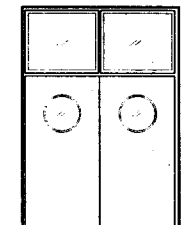
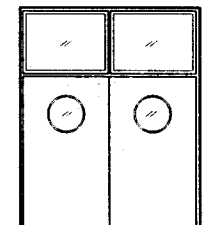
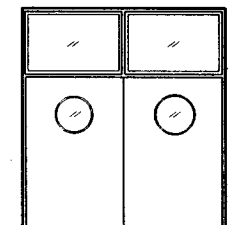
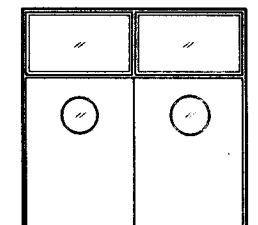
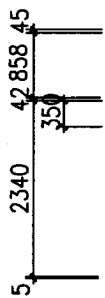
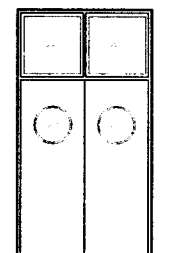
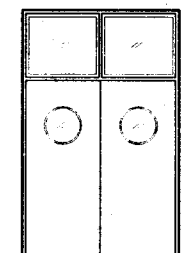
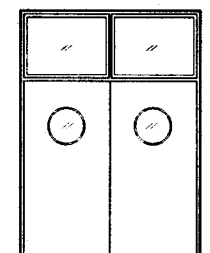
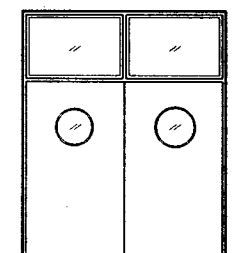
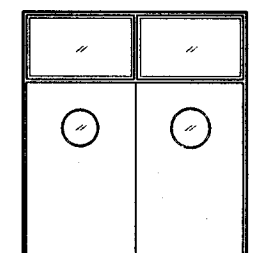


注：本图参考上海森林特种钢门有限公司和北京天明兴业科技发展有限公司资料绘制，各厂家用料尺寸及做法有所差异，实际做法均见有关厂家产品。

1M01型钢防火门详图				图集号	03J609
审核	王和光	校对	王和光	设计	王和光
				页	10

洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45 	45 790 45 	45 890 45 	45 1090 45 	45 1390 45 	45 1690 45 	45 1990 45 
2000	1990		 1M02-0820	 1M02-0920	 1M02-1020	 1M02-1220	 1M02-1520	 1M02-1820	 1M02-2120
			 1M02-0821	 1M02-0921	 1M02-1021	 1M02-1221	 1M02-1521	 1M02-1821	 1M02-2121
2100	2090		 1M02-0821	 1M02-0921	 1M02-1021	 1M02-1221	 1M02-1521	 1M02-1821	 1M02-2121
			 1M02-0824	 1M02-0924	 1M02-1024	 1M02-1224	 1M02-1524	 1M02-1824	 1M02-2124
2400	2390		 1M02-0824	 1M02-0924	 1M02-1024	 1M02-1224	 1M02-1524	 1M02-1824	 1M02-2124
			 1M02-0824	 1M02-0924	 1M02-1024	 1M02-1224	 1M02-1524	 1M02-1824	 1M02-2124
2400	2390		 1M021-0824	 1M021-0924	 1M021-1024	 1M021-1224	 1M021-1524	 1M021-1824	 1M021-2124
			 1M021-0824	 1M021-0924	 1M021-1024	 1M021-1224	 1M021-1524	 1M021-1824	 1M021-2124

1M02 型钢防火门选用图 (一)				图集号	03J609
审核	王和光	校对	张岳	设计	张淑萍
				页	11

洞口尺寸		1500	1800	2100	2400	2700	3000		
框口尺寸		1480	1780	2080	2380	2680	2980		
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45		
2700	2690	 1M02-1527	 1M02-1827	 1M02-2127	 1M02-2427	 1M02-2727	 1M02-3027		
	3000	2990	 1M02-1530	 1M02-1830	 1M02-2130	 1M02-2430	 1M02-2730	 1M02-3030	
3300	3290	 1M02-1533	 1M02-1833	 1M02-2133	 1M02-2433	 1M02-2733	 1M02-3033		
					1M02 型钢防火门选用图(二)			图集号	03J609
					审核	王祖光	校对	张岳	设计

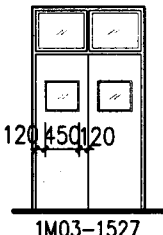
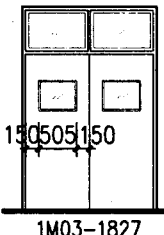
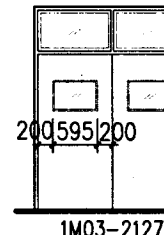
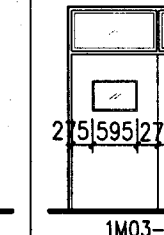
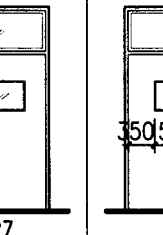
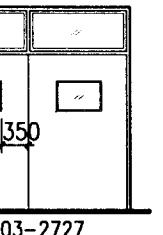
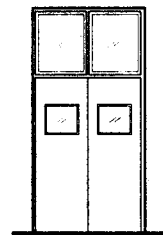
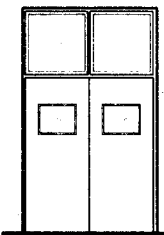
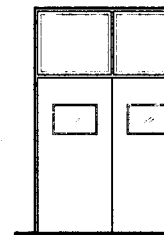
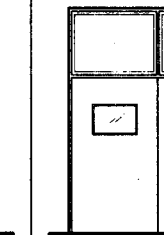
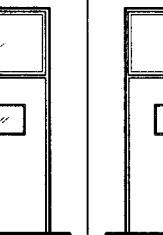
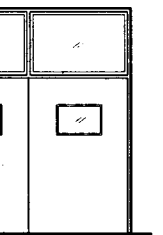
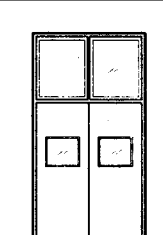
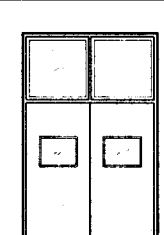
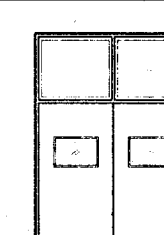
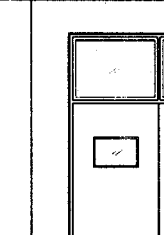
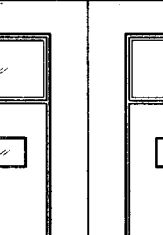
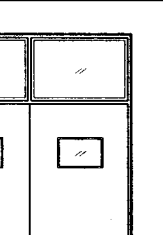
洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
		120 450 120 1M03-0820	170 450 170 1M03-0920	220 450 220 1M03-1020	300 450 170 1M03-1220	120 450 120 1M03-1520	150 505 150 1M03-1820	200 595 200 1M03-2120
2100	2090							
		1M03-0821	1M03-0921	1M03-1021	1M03-1221	1M03-1521	1M03-1821	1M03-2121
2400	2390							
		1M03-0824	1M03-0924	1M03-1024	1M03-1224	1M03-1524	1M03-1824	1M03-2124
2400	2390							
		1M031-0824	1M031-0924	1M031-1024	1M031-1224	1M031-1524	1M031-1824	1M031-2124

1M03 型钢防火门选用图 (一)

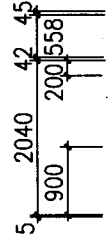
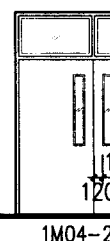
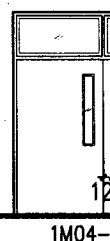
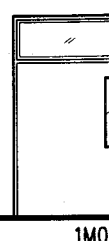
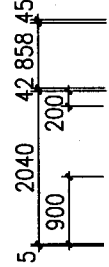
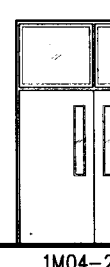
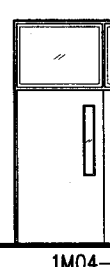
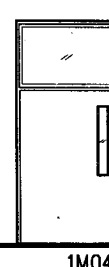
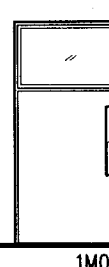
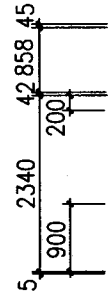
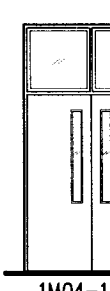
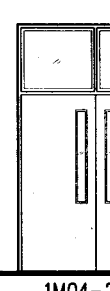
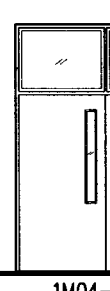
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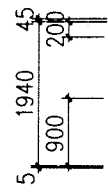
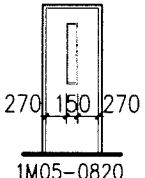
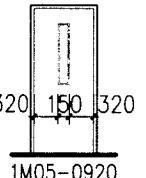
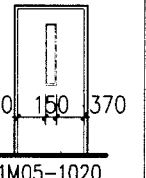
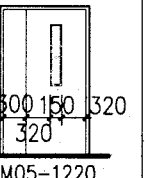
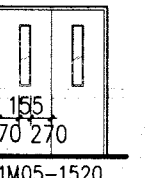
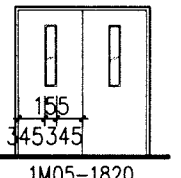
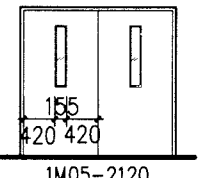
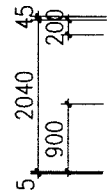
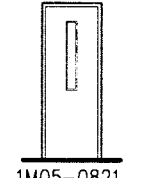
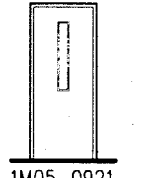
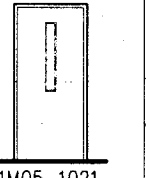
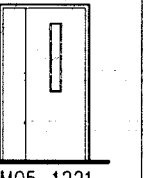
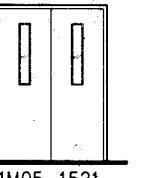
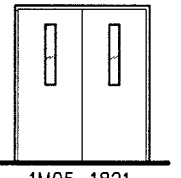
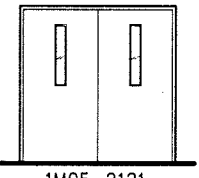
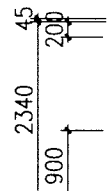
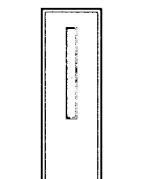
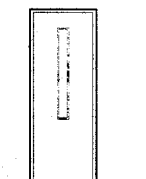
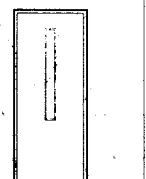
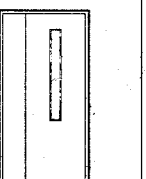
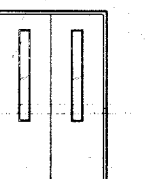
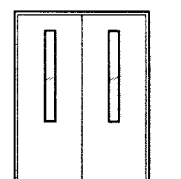
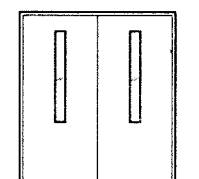
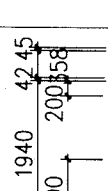
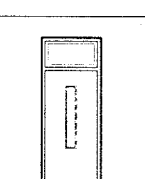
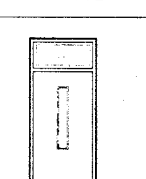
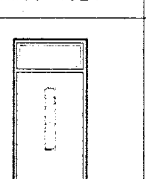
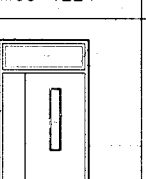
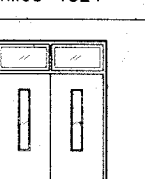
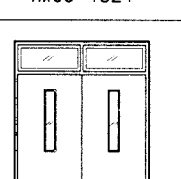
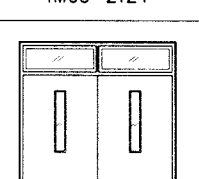
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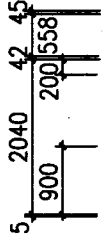
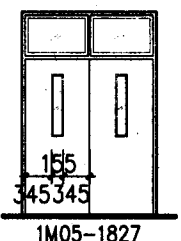
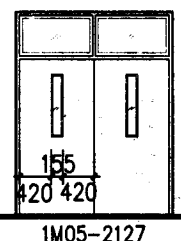
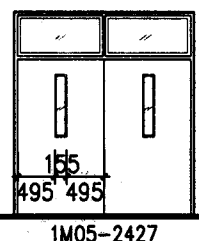
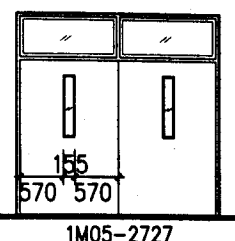
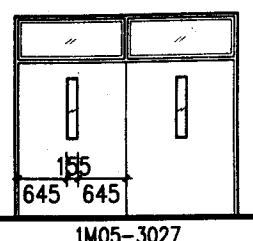
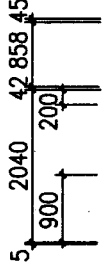
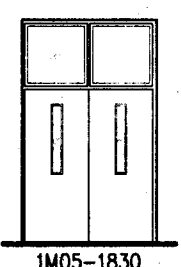
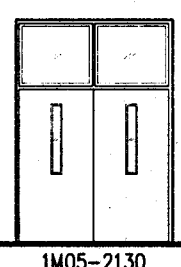
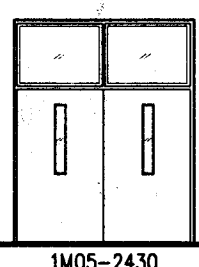
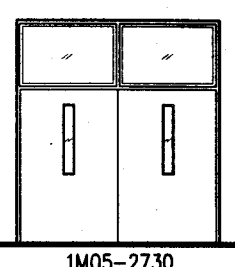
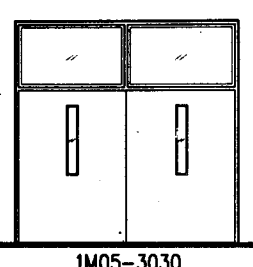
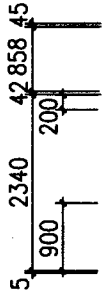
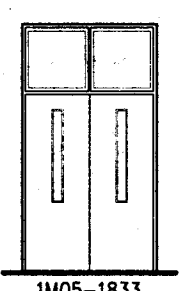
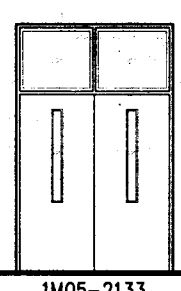
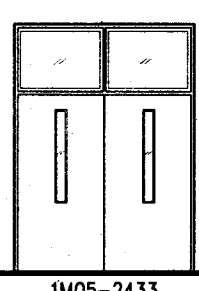
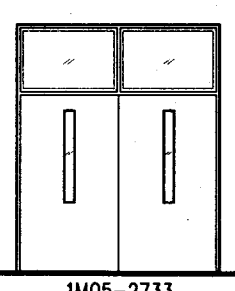
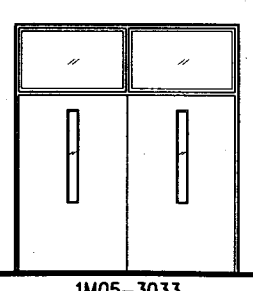
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框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 120 450 120 1M03-1527	 150 505 150 1M03-1827	 200 595 200 1M03-2127	 275 595 275 1M03-2427	 350 595 350 1M03-2727	 425 595 425 1M03-3027
3000	2990	 1M03-1530	 1M03-1830	 1M03-2130	 1M03-2430	 1M03-2730	 1M03-3030
3300	3290	 1M03-1533	 1M03-1833	 1M03-2133	 1M03-2433	 1M03-2733	 1M03-3033

洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45 	45 790 45 	45 890 45 	45 1090 45 	45 1390 45 	45 1690 45 	45 1990 45
2000	1990		 120 1150 1M04-0820	 120 1150 1M04-0920	 120 1150 1M04-1020	 300 1150 120 1M04-1220	 1150 120 1M04-1520	 1150 120 1M04-1820	 1150 120 1M04-2120
2100	2090		 1M04-0821	 1M04-0921	 1M04-1021	 1M04-1221	 1M04-1521	 1M04-1821	 1M04-2121
2400	2390		 1M04-0824	 1M04-0924	 1M04-1024	 1M04-1224	 1M04-1524	 1M04-1824	 1M04-2124
2400	2390		 1M041-0824	 1M041-0924	 1M041-1024	 1M041-1224	 1M041-1524	 1M041-1824	 1M041-2124

洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M04-1527	 1M04-1827	 1M04-2127	 1M04-2427	 1M04-2727	 1M04-3027
3000	2990	 1M04-1530	 1M04-1830	 1M04-2130	 1M04-2430	 1M04-2730	 1M04-3030
3300	3290	 1M04-1533	 1M04-1833	 1M04-2133	 1M04-2433	 1M04-2733	 1M04-3033

洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990		 270 150 270 1M05-0820	 320 150 320 1M05-0920	 370 150 370 1M05-1020	 300 150 320 1M05-1220	 155 270 270 1M05-1520	 155 345 345 1M05-1820	 155 420 420 1M05-2120
2100	2090		 1M05-0821	 1M05-0921	 1M05-1021	 1M05-1221	 1M05-1521	 1M05-1821	 1M05-2121
2400	2390		 1M05-0824	 1M05-0924	 1M05-1024	 1M05-1224	 1M05-1524	 1M05-1824	 1M05-2124
2400	2390		 1M051-0824	 1M051-0924	 1M051-1024	 1M051-1224	 1M051-1524	 1M051-1824	 1M051-2124

洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M05-1527	 1M05-1827	 1M05-2127	 1M05-2427	 1M05-2727	 1M05-3027
3000	2990	 1M05-1530	 1M05-1830	 1M05-2130	 1M05-2430	 1M05-2730	 1M05-3030
3300	3290	 1M05-1533	 1M05-1833	 1M05-2133	 1M05-2433	 1M05-2733	 1M05-3033

1M05 型钢防火门选用图(二)

图集号

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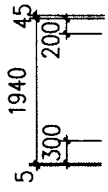
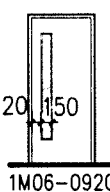
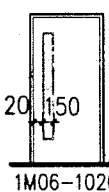
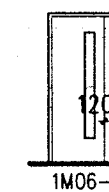
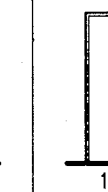
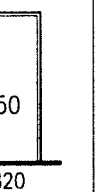
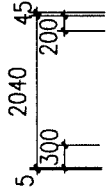
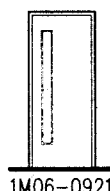
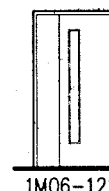
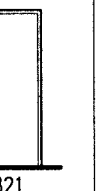
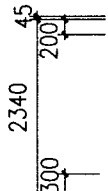
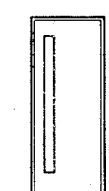
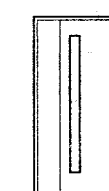
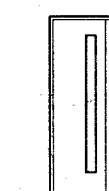
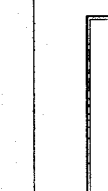
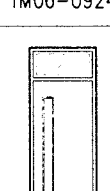
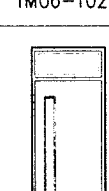
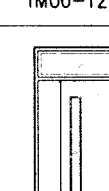
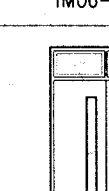
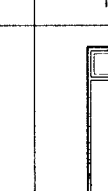
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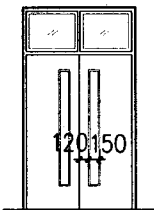
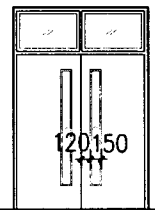
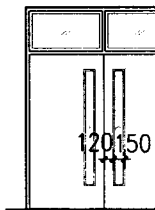
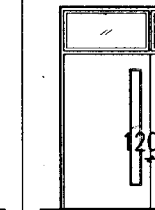
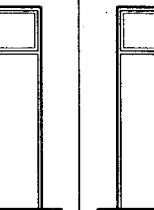
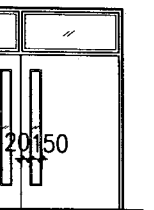
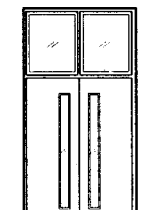
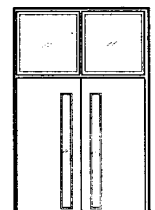
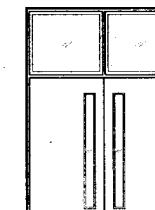
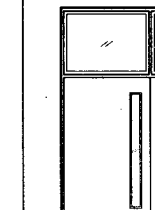
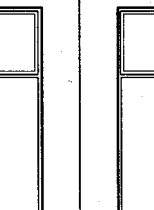
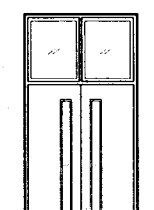
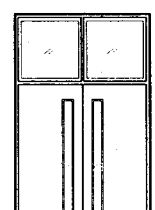
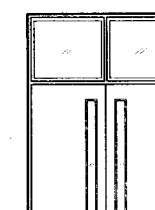
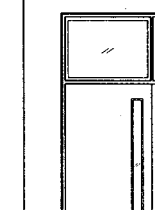
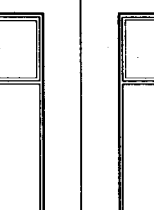
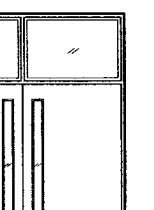
设计

张基萍

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洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990	 1M06-0820	 1M06-0920	 1M06-1020	 1M06-1220	 1M06-1520	 1M06-1820	 1M06-2120
2100	2090	 1M06-0821	 1M06-0921	 1M06-1021	 1M06-1221	 1M06-1521	 1M06-1821	 1M06-2121
2400	2390	 1M06-0824	 1M06-0924	 1M06-1024	 1M06-1224	 1M06-1524	 1M06-1824	 1M06-2124
2400	2390	 1M061-0824	 1M061-0924	 1M061-1024	 1M061-1224	 1M061-1524	 1M061-1824	 1M061-2124

洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	5 300 2040 42 45 200 558  120 150 1M06-1527	5 300 2040 42 45 200 558  120 150 1M06-1827	5 300 2040 42 45 200 558  120 150 1M06-2127	5 300 2040 42 45 200 558  120 150 1M06-2427	5 300 2040 42 45 200 558  120 150 1M06-2727	5 300 2040 42 45 200 558  120 150 1M06-3027
3000	2990	5 300 2040 42 858 45 200  1M06-1530	5 300 2040 42 858 45 200  1M06-1830	5 300 2040 42 858 45 200  1M06-2130	5 300 2040 42 858 45 200  1M06-2430	5 300 2040 42 858 45 200  1M06-2730	5 300 2040 42 858 45 200  1M06-3030
3300	3290	5 300 2340 42 858 45 200  1M06-1533	5 300 2340 42 858 45 200  1M06-1833	5 300 2340 42 858 45 200  1M06-2133	5 300 2340 42 858 45 200  1M06-2433	5 300 2340 42 858 45 200  1M06-2733	5 300 2340 42 858 45 200  1M06-3033

1M06 型钢防火门选用图(二)

图集号

03J609

审核

王沁光

校对

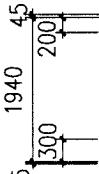
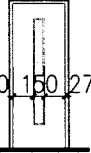
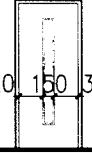
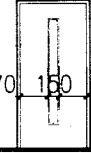
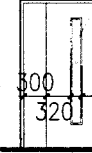
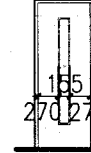
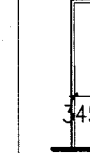
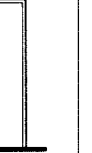
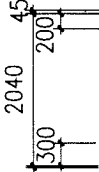
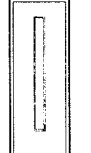
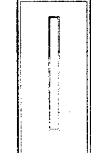
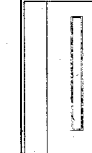
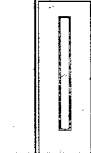
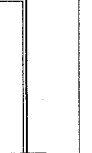
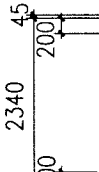
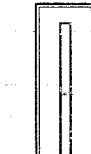
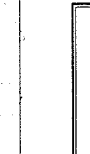
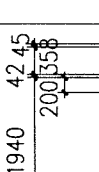
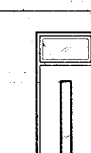
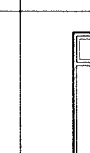
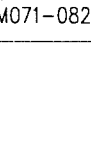
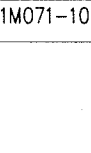
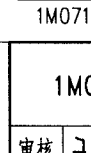
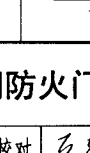
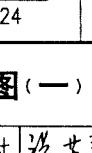
王沁光

设计

王沁光

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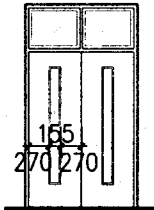
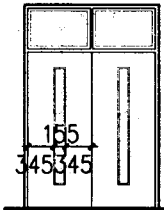
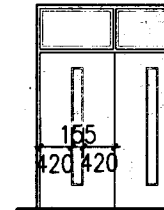
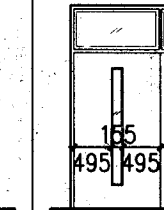
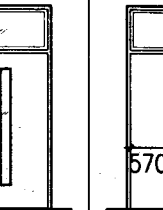
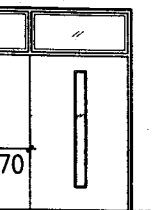
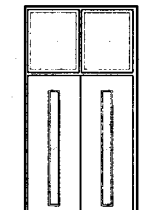
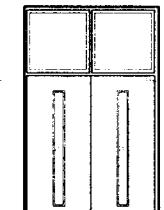
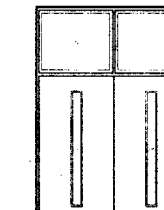
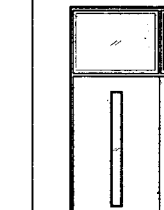
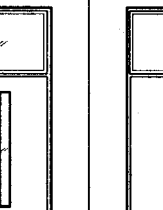
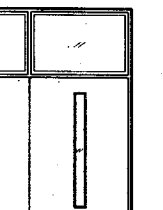
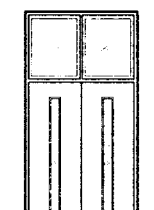
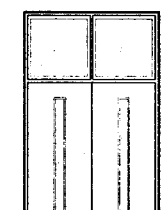
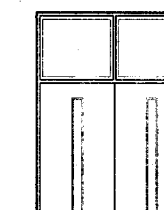
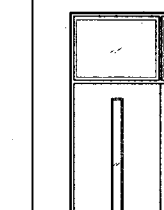
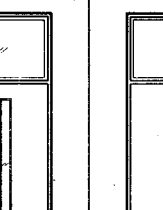
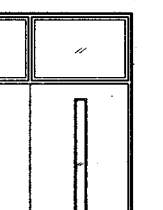
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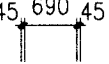
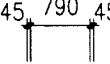
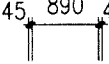
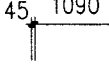
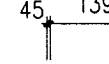
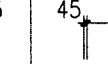
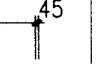
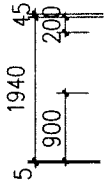
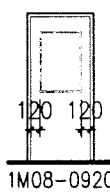
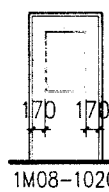
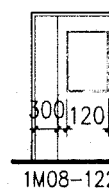
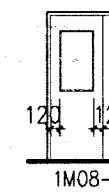
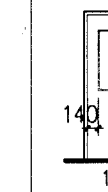
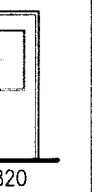
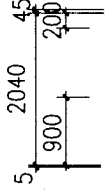
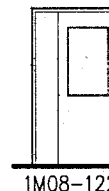
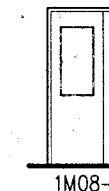
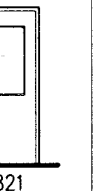
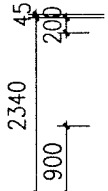
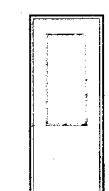
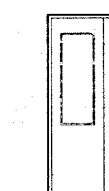
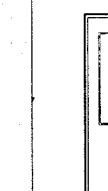
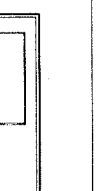
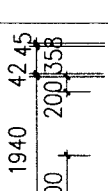
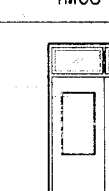
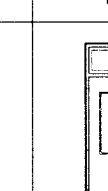
洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45 	45 790 45 	45 890 45 	45 1090 45 	45 1390 45 	45 1690 45 	45 1990 45 
2000	1990	1940 45 200 200 300 5 	 270 150 270 1M07-0820	 320 150 320 1M07-0920	 370 150 370 1M07-1020	 300 320 320 1M07-1220	 155 270 270 1M07-1520	 155 345 345 1M07-1820	 155 420 420 1M07-2120
		2040 45 200 200 300 5 	 1M07-0821	 1M07-0921	 1M07-1021	 1M07-1221	 1M07-1521	 1M07-1821	 1M07-2121
2100	2090	2040 45 200 200 300 5 	 1M07-0821	 1M07-0921	 1M07-1021	 1M07-1221	 1M07-1521	 1M07-1821	 1M07-2121
2400	2390	2340 45 200 200 300 5 	 1M07-0824	 1M07-0924	 1M07-1024	 1M07-1224	 1M07-1524	 1M07-1824	 1M07-2124
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1M07 型钢防火门选用图 (一)

图集号 03J609

审核 王祖光 校对 王祖光 设计 王祖光

洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M07-1527	 1M07-1827	 1M07-2127	 1M07-2427	 1M07-2727	 1M07-3027
3000	2990	 1M07-1530	 1M07-1830	 1M07-2130	 1M07-2430	 1M07-2730	 1M07-3030
3300	3290	 1M07-1533	 1M07-1833	 1M07-2133	 1M07-2433	 1M07-2733	 1M07-3033

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45 	45 790 45 	45 890 45 	45 1090 45 	45 1390 45 	45 1690 45 	45 1990 45 
2000	1990	 1M08-0820	 1M08-0920	 1M08-1020	 1M08-1220	 1M08-1520	 1M08-1820	 1M08-2120
	2090	 1M08-0821	 1M08-0921	 1M08-1021	 1M08-1221	 1M08-1521	 1M08-1821	 1M08-2121
2400	2390	 1M08-0824	 1M08-0924	 1M08-1024	 1M08-1224	 1M08-1524	 1M08-1824	 1M08-2124
	2390	 1M081-0824	 1M081-0924	 1M081-1024	 1M081-1224	 1M081-1524	 1M081-1824	 1M081-2124

1M08 型钢防火门选用图(一)

图集号

03J609

审核

王和光

校对

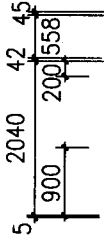
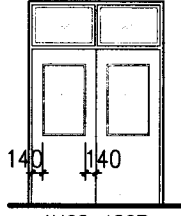
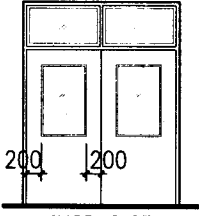
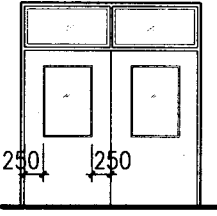
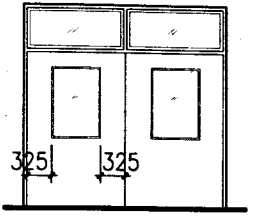
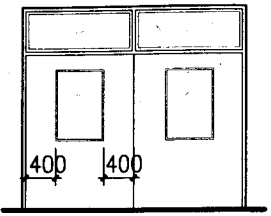
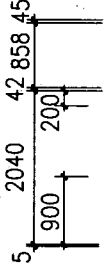
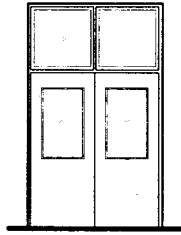
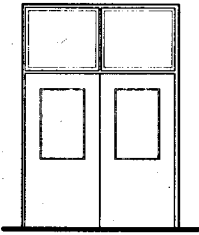
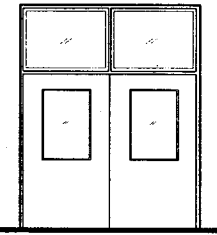
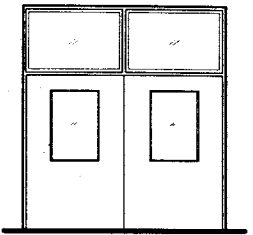
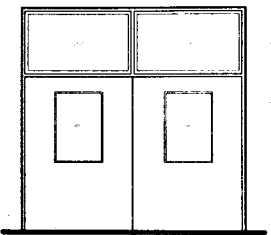
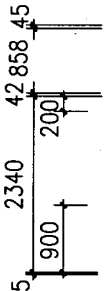
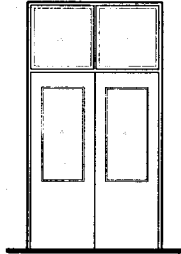
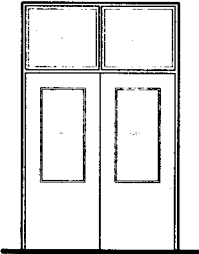
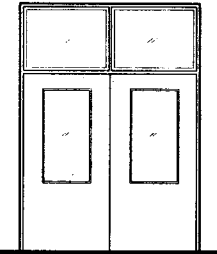
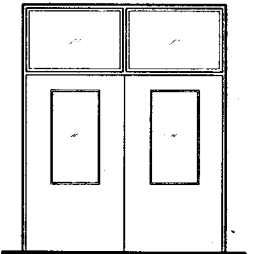
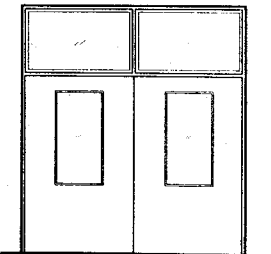
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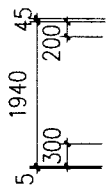
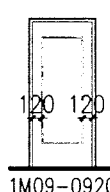
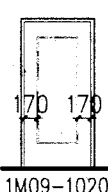
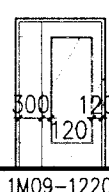
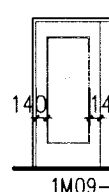
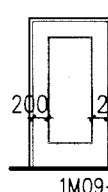
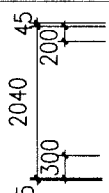
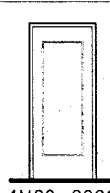
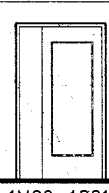
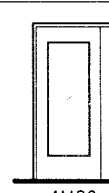
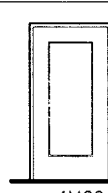
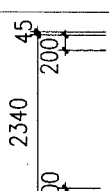
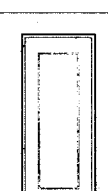
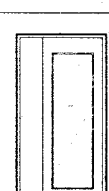
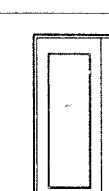
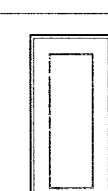
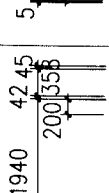
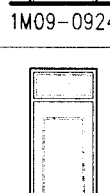
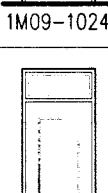
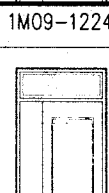
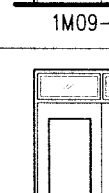
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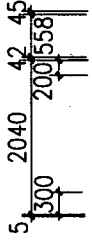
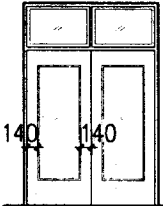
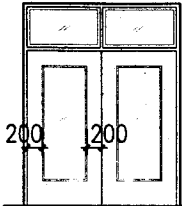
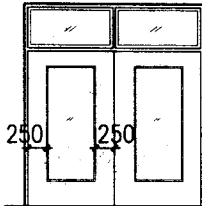
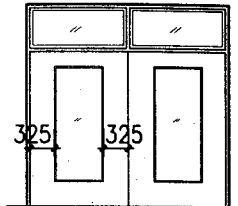
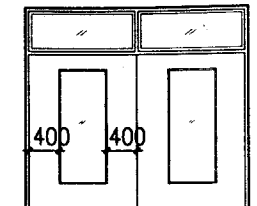
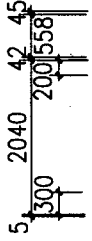
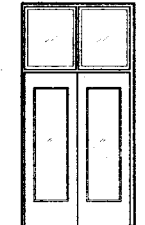
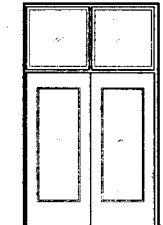
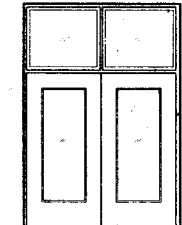
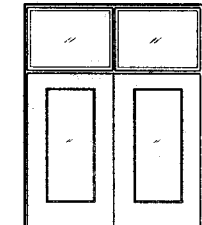
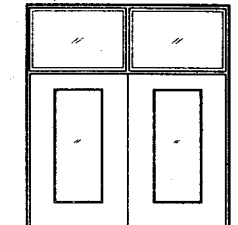
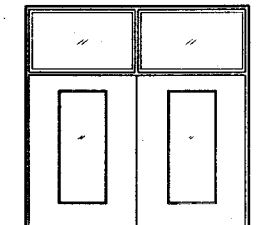
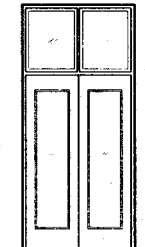
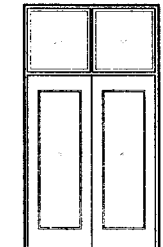
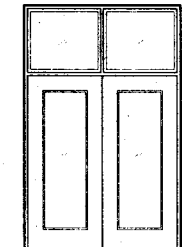
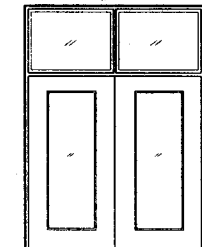
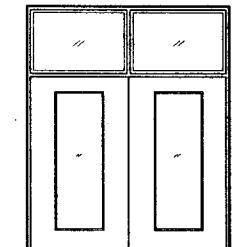
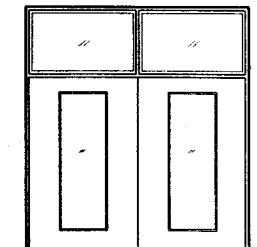
张苏萍

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洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M08-1527	 1M08-1827	 1M08-2127	 1M08-2427	 1M08-2727	 1M08-3027
3000	2990	 1M08-1530	 1M08-1830	 1M08-2130	 1M08-2430	 1M08-2730	 1M08-3030
3300	3290	 1M08-1533	 1M08-1833	 1M08-2133	 1M08-2433	 1M08-2733	 1M08-3033

洞口尺寸		800	900	1000	1200	1500	1800	2100	
框口尺寸		780	880	980	1180	1480	1780	2080	
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45	
2000	1990								
		1M09-0820	1M09-0920	1M09-1020	1M09-1220	1M09-1520	1M09-1820	1M09-2120	
2100	2090								
		1M09-0821	1M09-0921	1M09-1021	1M09-1221	1M09-1521	1M09-1821	1M09-2121	
2400	2390								
		1M09-0824	1M09-0924	1M09-1024	1M09-1224	1M09-1524	1M09-1824	1M09-2124	
2400	2390								
		1M091-0824	1M091-0924	1M091-1024	1M091-1224	1M091-1524	1M091-1824	1M091-2124	
						1M09 型钢防火门选用图(一)		图集号	03J609
						审核	王和光	校对	王和光

洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M09-1527	 1M09-1827	 1M09-2127	 1M09-2427	 1M09-2727	 1M09-3027
							
3000	2990	 1M09-1530	 1M09-1830	 1M09-2130	 1M09-2430	 1M09-2730	 1M09-3030
							
3300	3290	 1M09-1533	 1M09-1833	 1M09-2133	 1M09-2433	 1M09-2733	 1M09-3033
							

1M09 型钢防火门选用图(二)

图集号

03J609

审核 王旭光 校对 王旭光 设计 潘基萍

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		洞口尺寸	800	900	1000	1200	1500	1800	2100
		框口尺寸	780	880	980	1180	1480	1780	2080
			45. 690. 45	45. 790. 45	45. 890. 45	45. 1090. 45	45. 1390. 45	45. 1690. 45	45. 1990. 45
2000	1990								
			120 120	120 120	170 170	300 120 120	120 120	140 140	200 200
			1M10-0820	1M10-0920	1M10-1020	1M10-1220	1M10-1520	1M10-1820	1M10-2120
2100	2090								
			1M10-0821	1M10-0921	1M10-1021	1M10-1221	1M10-1521	1M10-1821	1M10-2121
2400	2390								
			1M10-0824	1M10-0924	1M10-1024	1M10-1224	1M10-1524	1M10-1824	1M10-2124
2400	2390								
			1M101-0824	1M101-0924	1M101-1024	1M101-1224	1M101-1524	1M101-1824	1M101-2124

1M10 型钢防火门选用图 (一)

图集号

03J609

审核

王祖光

校对

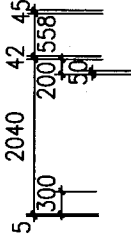
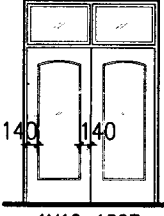
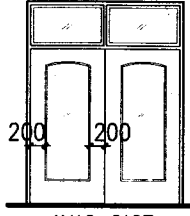
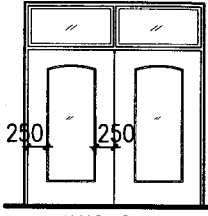
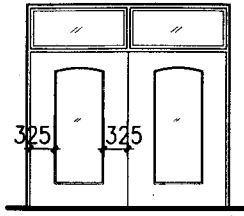
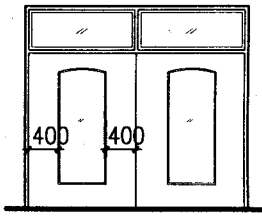
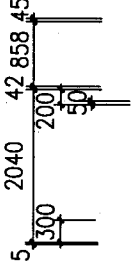
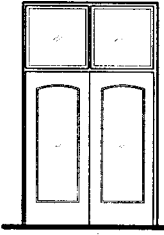
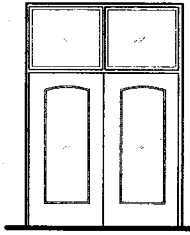
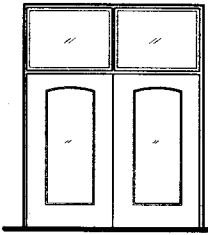
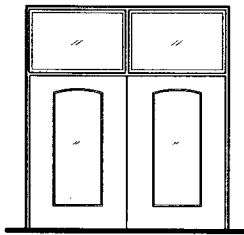
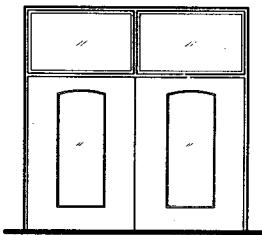
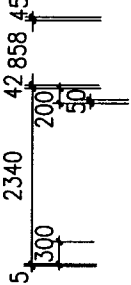
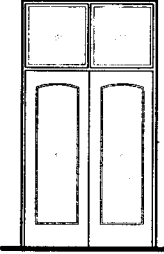
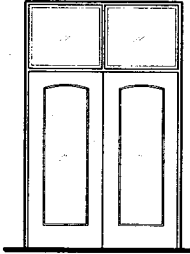
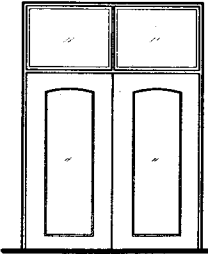
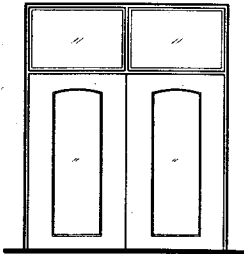
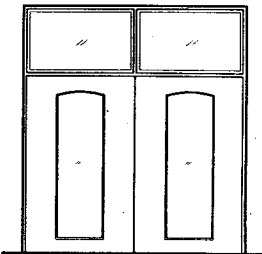
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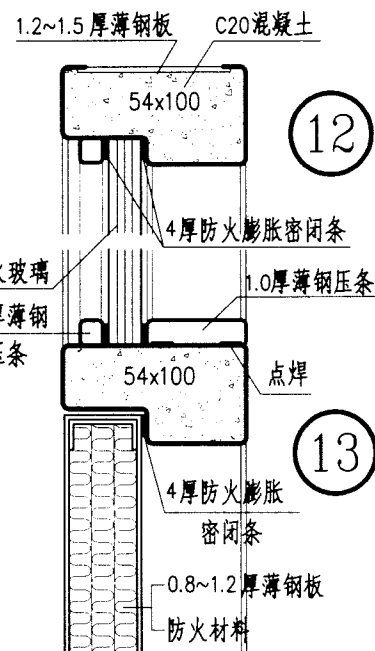
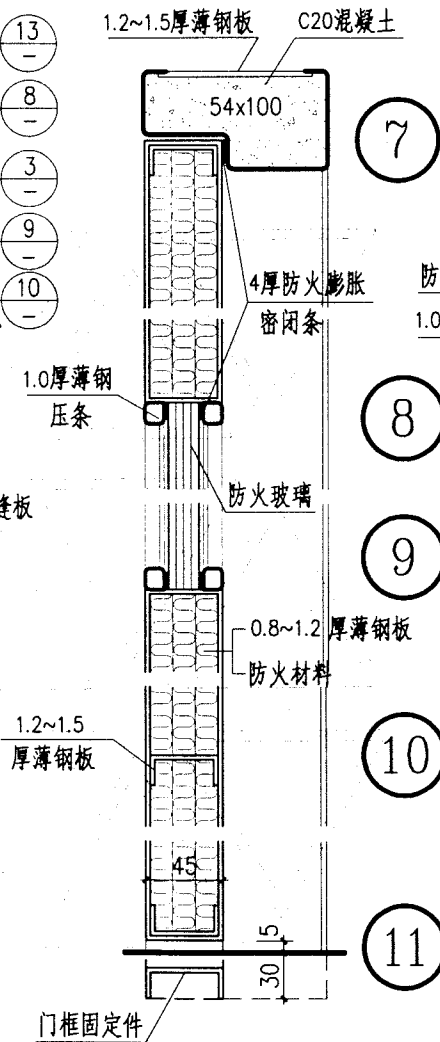
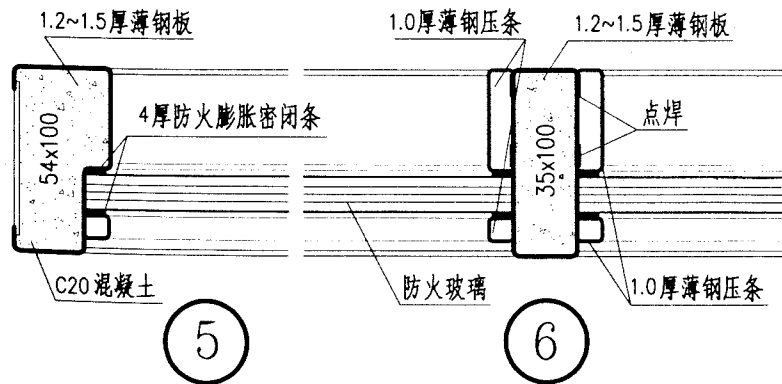
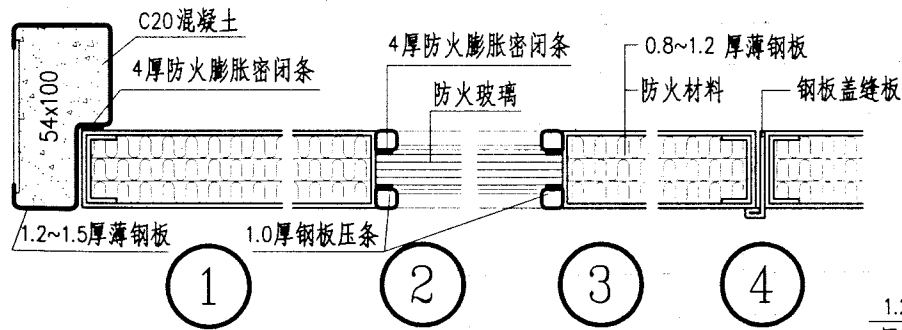
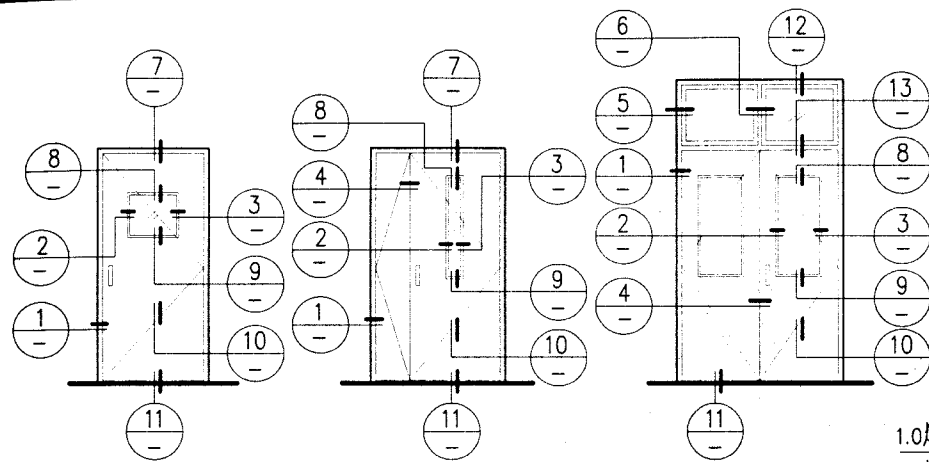
设计

徐苏萍

页

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洞口尺寸		1500	1800	2100	2400	2700	3000
框口尺寸		1480	1780	2080	2380	2680	2980
		45 1390 45	45 1690 45	45 1990 45	45 2290 45	45 2590 45	45 2890 45
2700	2690	 1M10-1527	 1M10-1827	 1M10-2127	 1M10-2427	 1M10-2727	 1M10-3027
3000	2990	 1M10-1530	 1M10-1830	 1M10-2130	 1M10-2430	 1M10-2730	 1M10-3030
3300	3290	 1M10-1533	 1M10-1833	 1M10-2133	 1M10-2433	 1M10-2733	 1M10-3033



注：本图参考上海森林特种钢门有限公司和北京天明兴业科技发展有限公司资料绘制，各厂家用料尺寸及做法有所差异，实际做法均见有关厂家产品。

1M02~1M10 型钢防火门详图

图集号

03J609

审核

王祖光

校对

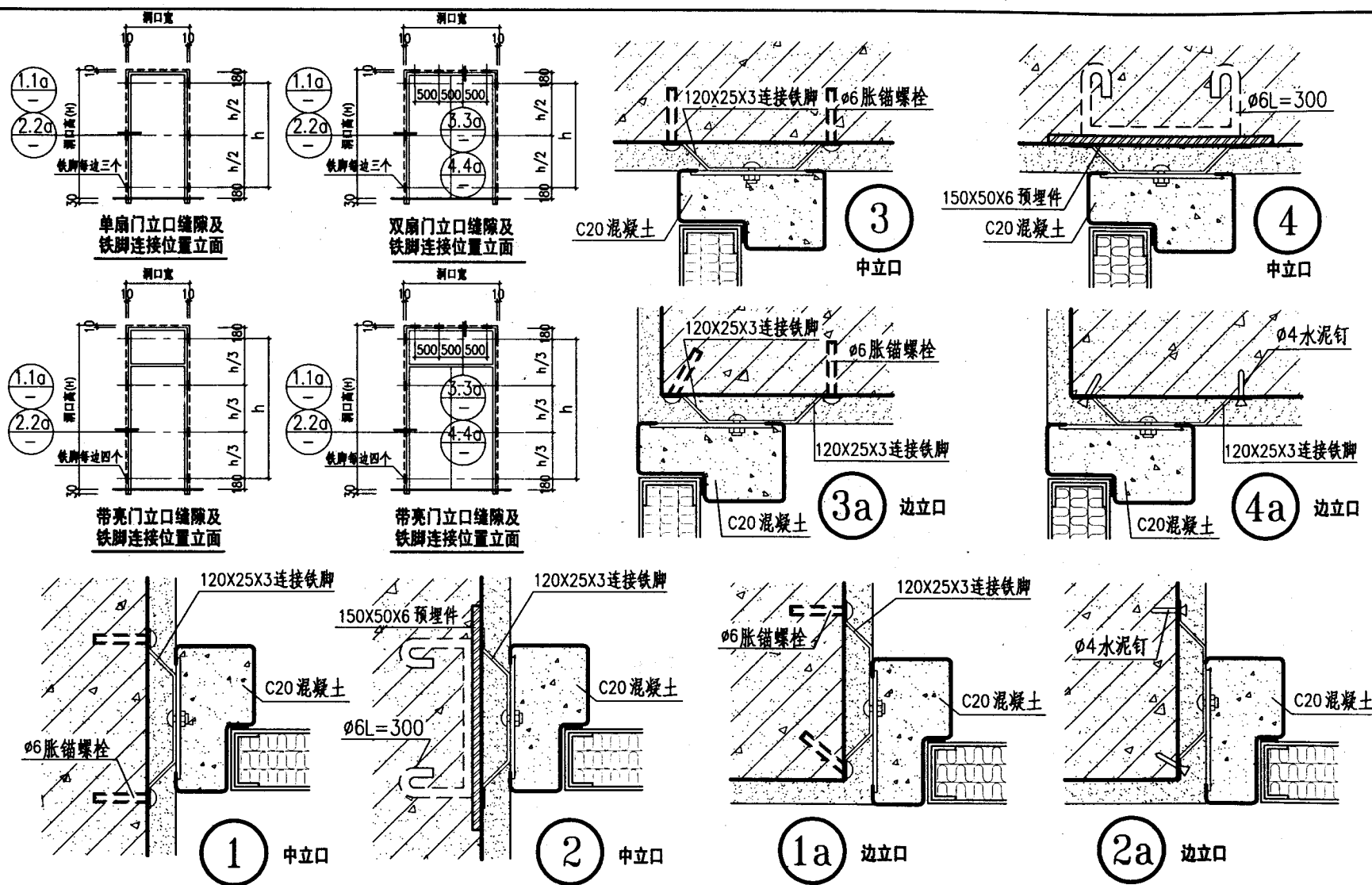
张云

设计

张淑萍

页

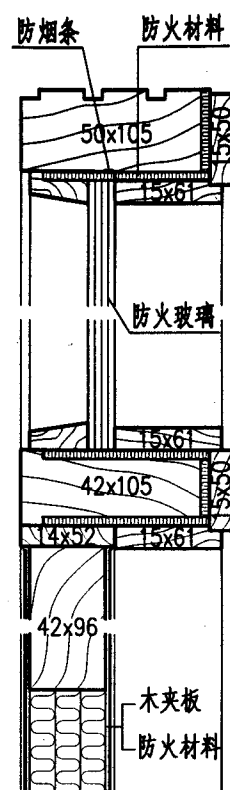
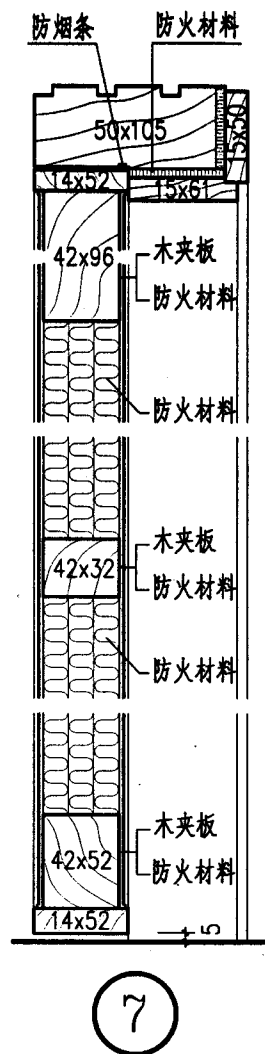
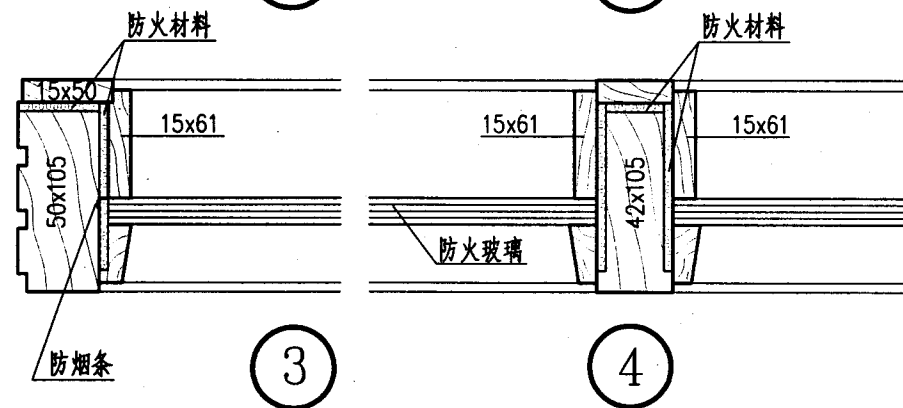
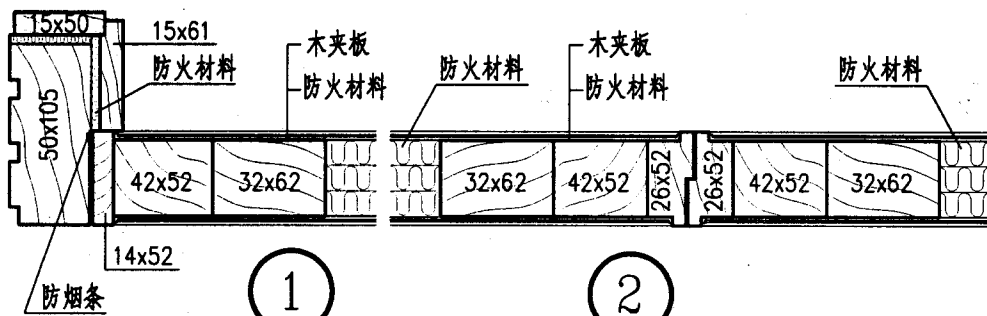
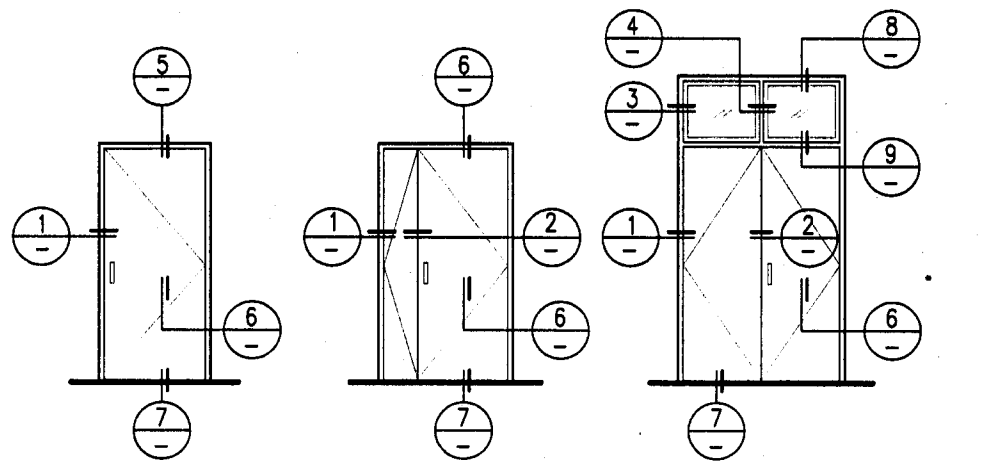
29



注：
 适用墙体：a. 钢筋混凝土墙；b. 混凝土空心砌块墙（门两侧的空心砌块用混凝土填充）；或作钢筋混凝土构造柱。
 c. 砖墙；d. 其它轻型防火隔墙（两侧作钢筋混凝土构造柱）。

1M 钢防火门洞口与门框连接 安装详图				图集号	03J609
审核	王祖光	校对	王祖光	设计	潘基萍
				页	30

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
		2M01-0820	2M01-0920	2M01-1020	2M01-1220	2M01-1520	2M01-1820	2M01-2120
		2M01-0821	2M01-0921	2M01-1021	2M01-1221	2M01-1521	2M01-1821	2M01-2121
2100	2090							
		2M01-0824	2M01-0924	2M01-1024	2M01-1224	2M01-1524	2M01-1824	2M01-2124
		2M01-0827	2M01-0927	2M01-1027	2M01-1227	2M01-1527	2M01-1827	2M01-2127
2400	2390							
		2M01-0827	2M01-0927	2M01-1027	2M01-1227	2M01-1527	2M01-1827	2M01-2127
		2M01-0827	2M01-0927	2M01-1027	2M01-1227	2M01-1527	2M01-1827	2M01-2127
2700	2690							
		2M01-0827	2M01-0927	2M01-1027	2M01-1227	2M01-1527	2M01-1827	2M01-2127
		2M01-0827	2M01-0927	2M01-1027	2M01-1227	2M01-1527	2M01-1827	2M01-2127



2M01型木夹板防火门详图

图集号

03J609

审核

王亚光

校对

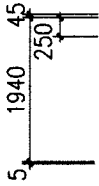
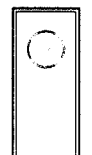
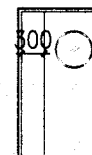
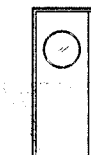
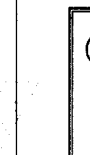
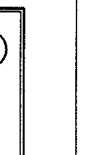
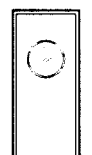
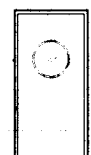
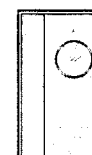
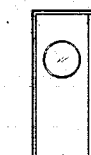
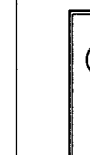
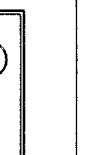
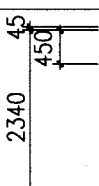
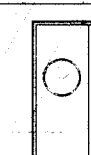
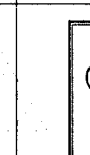
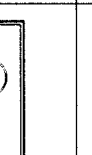
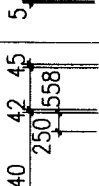
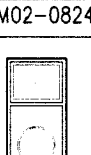
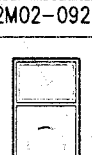
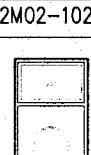
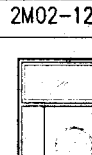
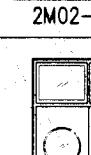
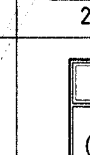
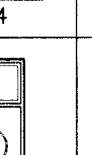
王亚光

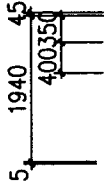
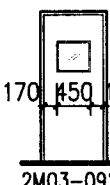
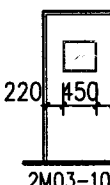
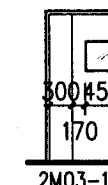
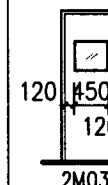
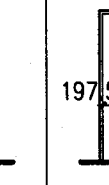
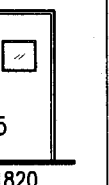
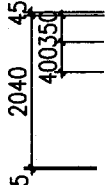
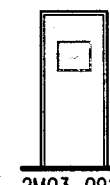
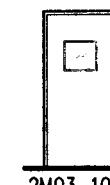
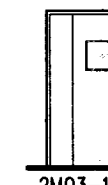
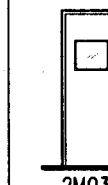
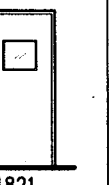
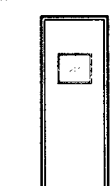
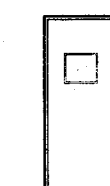
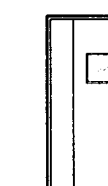
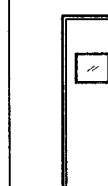
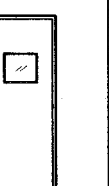
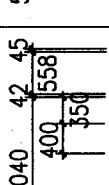
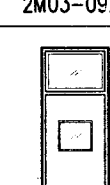
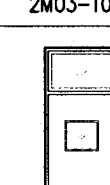
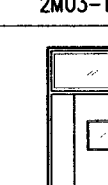
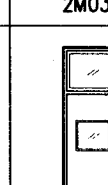
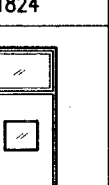
设计

王亚光

页

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45 
2000	1990		 2M02-0820	 2M02-0920	 2M02-1020	 2M02-1220	 2M02-1520	 2M02-1820	 2M02-2120
2100	2090		 2M02-0821	 2M02-0921	 2M02-1021	 2M02-1221	 2M02-1521	 2M02-1821	 2M02-2121
2400	2390		 2M02-0824	 2M02-0924	 2M02-1024	 2M02-1224	 2M02-1524	 2M02-1824	 2M02-2124
2700	2690		 2M02-0827	 2M02-0927	 2M02-1027	 2M02-1227	 2M02-1527	 2M02-1827	 2M02-2127

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45, 690, 45	45, 790, 45	45, 890, 45	45, 1090, 45	45, 1390, 45	45, 1690, 45	45, 1990, 45
2000	1990	 2M03-0820	 2M03-0920	 2M03-1020	 2M03-1220	 2M03-1520	 2M03-1820	 2M03-2120
2100	2090	 2M03-0821	 2M03-0921	 2M03-1021	 2M03-1221	 2M03-1521	 2M03-1821	 2M03-2121
2400	2390	 2M03-0824	 2M03-0924	 2M03-1024	 2M03-1224	 2M03-1524	 2M03-1824	 2M03-2124
2700	2690	 2M03-0827	 2M03-0927	 2M03-1027	 2M03-1227	 2M03-1527	 2M03-1827	 2M03-2127

2M03 型木夹板防火门选用图

图集号

03J609

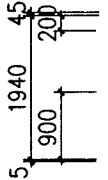
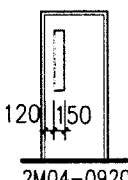
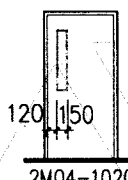
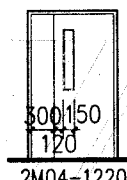
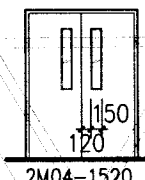
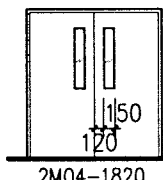
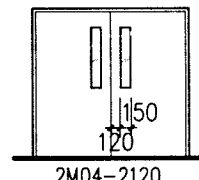
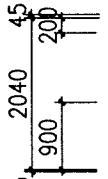
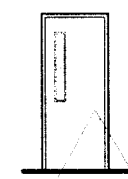
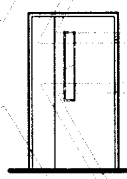
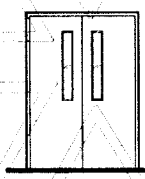
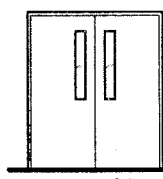
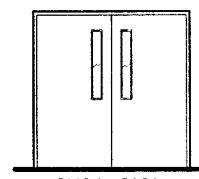
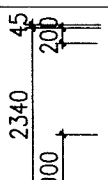
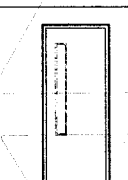
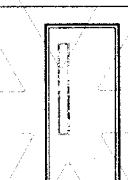
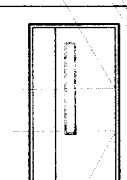
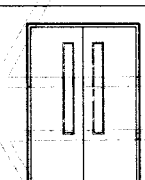
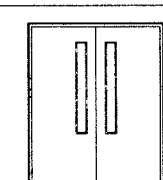
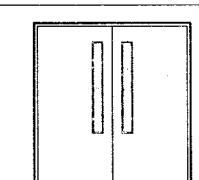
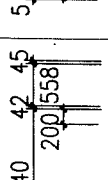
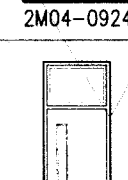
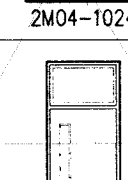
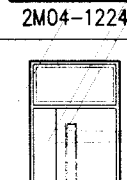
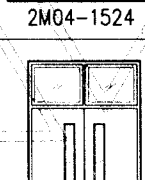
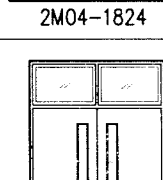
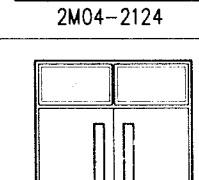
审核 王祖光

校对 王祖光

设计 张淑萍

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洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
2100	2090							
2400	2390							
2700	2690							

2M04 型木夹板防火门选用图

图集号

03J609

审核 王祖光

校对 王祖光

设计 张苏萍

张苏萍

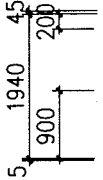
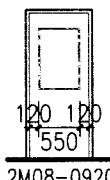
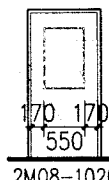
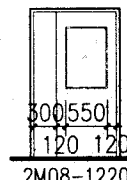
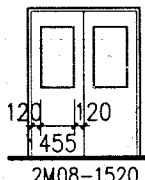
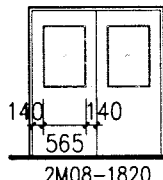
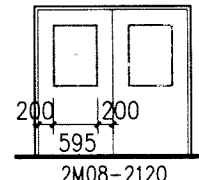
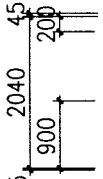
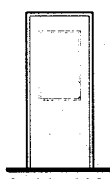
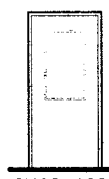
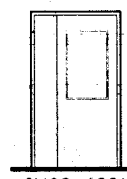
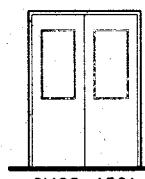
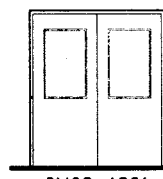
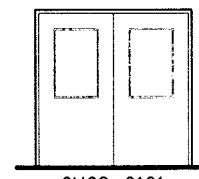
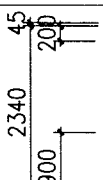
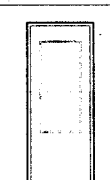
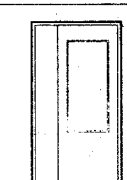
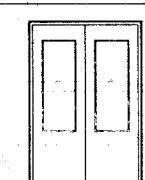
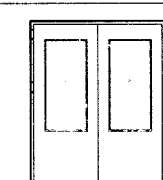
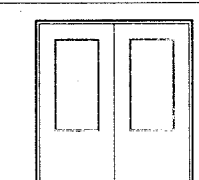
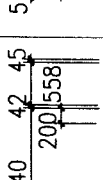
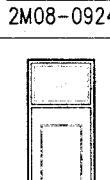
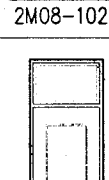
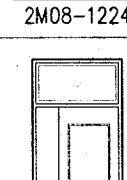
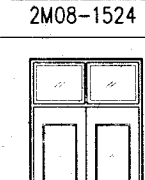
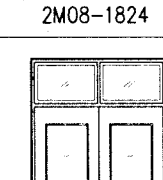
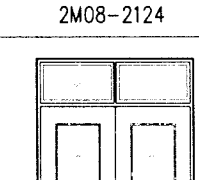
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		洞口尺寸	800	900	1000	1200	1500	1800	2100
		框口尺寸	780	880	980	1180	1480	1780	2080
			45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
2000	1990								
2100	2090								
2400	2390								
2700	2690								
							2M05 型木夹板防火门选用图		图集号
							03J609		图号
							审核 王旭光 校对 王旭光 设计 王旭光		页
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洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
		2M06-0820	2M06-0920	2M06-1020	2M06-1220	2M06-1520	2M06-1820	2M06-2120
2100	2090							
		2M06-0821	2M06-0921	2M06-1021	2M06-1221	2M06-1521	2M06-1821	2M06-2121
2400	2390							
		2M06-0824	2M06-0924	2M06-1024	2M06-1224	2M06-1524	2M06-1824	2M06-2124
2700	2690							
		2M06-0827	2M06-0927	2M06-1027	2M06-1227	2M06-1527	2M06-1827	2M06-2127

洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45. 690. 45 	45. 790. 45 	45. 890. 45 	45. 1090. 45 	45. 1390. 45 	45. 1690. 45 	45. 1990. 45
2000	1990		 2M07-0820	 2M07-0920	 2M07-1020	 2M07-1220	 2M07-1520	 2M07-1820	 2M07-2120
2100	2090		 2M07-0821	 2M07-0921	 2M07-1021	 2M07-1221	 2M07-1521	 2M07-1821	 2M07-2121
2400	2390		 2M07-0824	 2M07-0924	 2M07-1024	 2M07-1224	 2M07-1524	 2M07-1824	 2M07-2124
2700	2690		 2M07-0827	 2M07-0927	 2M07-1027	 2M07-1227	 2M07-1527	 2M07-1827	 2M07-2127

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
	2100							
2400	2390							
	2700							

2M08 型木夹板防火门选用图

图集号

03J609

审核

王和光

校对

王岳

设计

张淑萍

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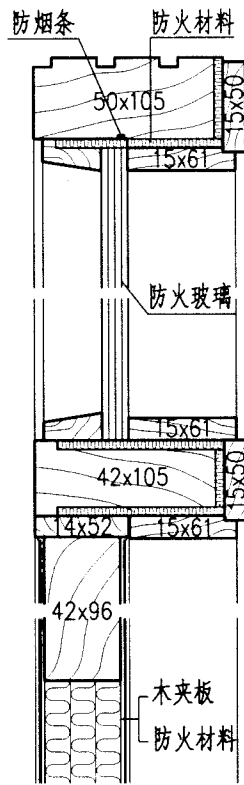
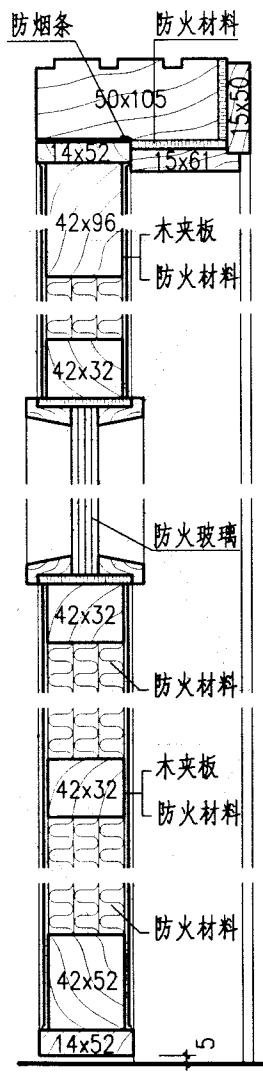
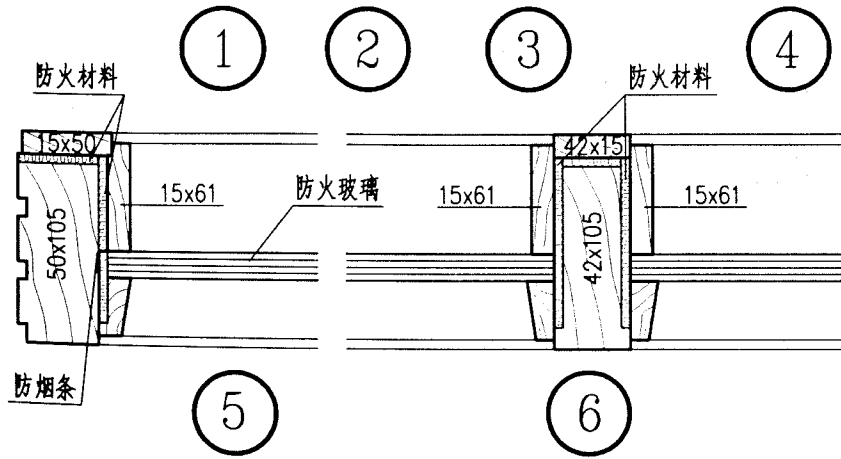
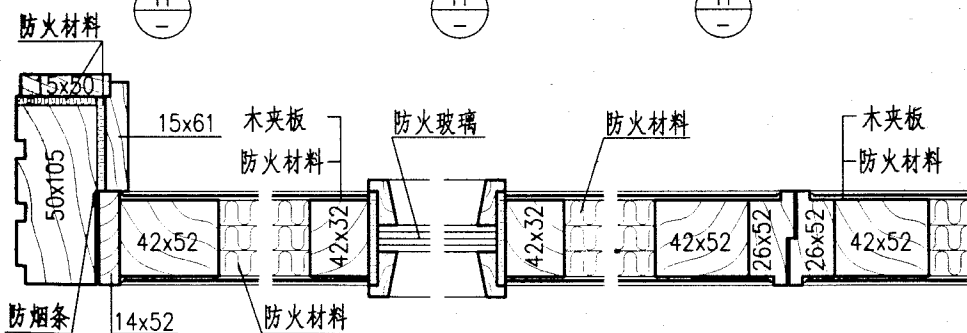
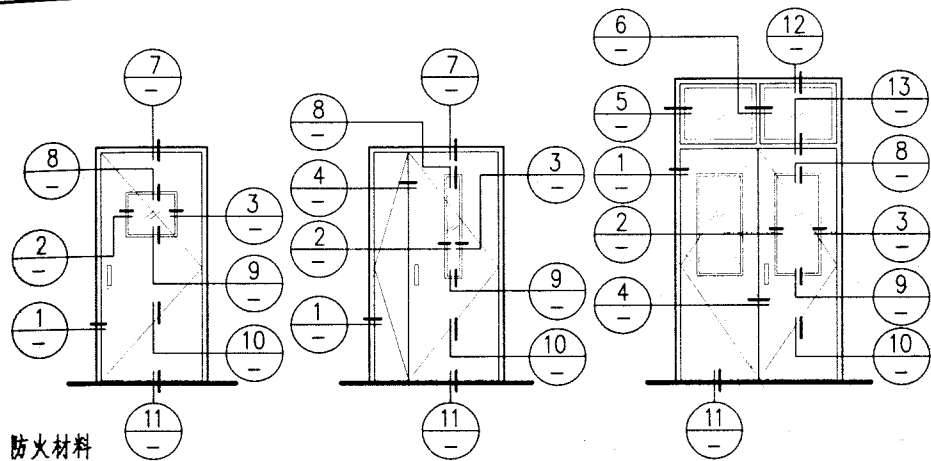
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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45 	45 790 45 	45 890 45 	45 1090 45 	45 1390 45 	45 1690 45 	45 1990 45
2000	1990		 2M09-0820	 2M09-0920	 2M09-1020	 2M09-1220	 2M09-1520	 2M09-1820	 2M09-2120
2100	2090		 2M09-0821	 2M09-0921	 2M09-1021	 2M09-1221	 2M09-1521	 2M09-1821	 2M09-2121
2400	2390		 2M09-0824	 2M09-0924	 2M09-1024	 2M09-1224	 2M09-1524	 2M09-1824	 2M09-2124
2700	2690		 2M09-0827	 2M09-0927	 2M09-1027	 2M09-1227	 2M09-1527	 2M09-1827	 2M09-2127

2M09 型木夹板防火门选用图

图集号 03J609

审核 王和光 校对 王和光 设计 潘苏萍



2M02~2M09 型木夹板防火门详图				图集号	03J609
审核	王祖光	校对	王祖光	设计	王祖光
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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990		 3M10-0820	 3M10-0920	 2M10-1020	 3M10-1220	 3M10-1520	 3M10-1820	 3M10-2120
2100	2090		 3M10-0821	 3M10-0921	 3M10-1021	 3M10-1221	 3M10-1521	 3M10-1821	 3M10-2121
2400	2390		 2M10-0824	 2M10-0924	 2M10-1024	 2M10-1224	 2M10-1524	 2M10-1824	 2M10-2124
2700	2690		 3M10-0827	 3M10-0927	 3M10-1027	 3M10-1227	 3M10-1527	 3M10-1827	 3M10-2127

3M10型木夹板装饰防火门选用图

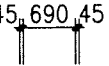
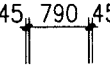
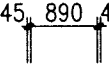
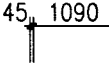
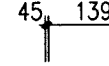
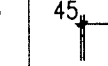
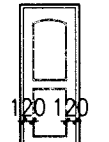
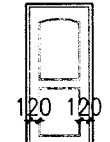
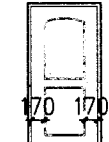
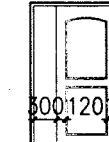
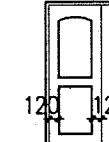
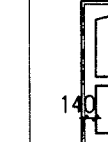
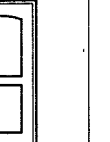
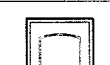
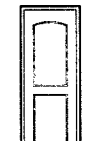
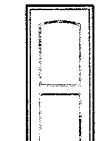
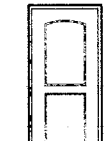
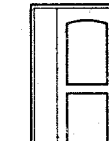
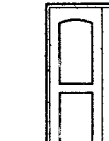
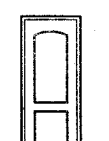
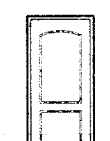
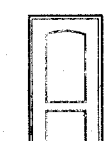
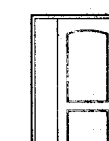
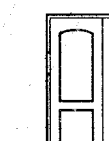
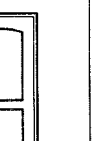
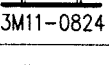
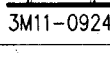
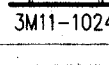
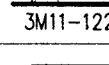
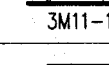
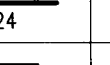
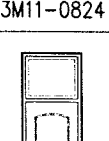
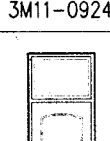
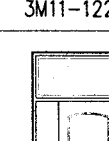
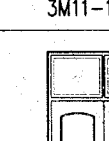
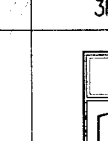
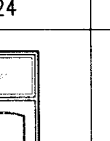
图集号

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审核 王祖光 校对 张岳 设计 潘基萍

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洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
2000	1990	45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45 
		 3M11-0820	 3M11-0920	 3M11-1020	 3M11-1220	 3M11-1520	 3M11-1820	 3M11-2120
2100	2090	45, 700, 45 	45, 800, 45 	45, 900, 45 	45, 1100, 45 	45, 1400, 45 	45, 1700, 45 	45, 2000, 45 
		 3M11-0821	 3M11-0921	 3M11-1021	 3M11-1221	 3M11-1521	 3M11-1821	 3M11-2121
2400	2390	45, 710, 45 	45, 810, 45 	45, 910, 45 	45, 1110, 45 	45, 1410, 45 	45, 1710, 45 	45, 2010, 45 
		 3M11-0824	 3M11-0924	 3M11-1024	 3M11-1224	 3M11-1524	 3M11-1824	 3M11-2124
2700	2690	558, 42, 45 	558, 42, 45 	558, 42, 45 	558, 42, 45 	558, 42, 45 	558, 42, 45 	558, 42, 45 
		 3M11-0824	 3M11-0924	 3M11-1024	 3M11-1224	 3M11-1524	 3M11-1824	 3M11-2124

3M11 型木夹板装饰防火门选用图

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审核

王旭光

校对

王旭光

设计

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990		 120 120 3M12-0820	 120 120 3M12-0920	 170 170 3M12-1020	 500 120 120 3M12-1220	 120 120 3M12-1520	 140 140 3M12-1820	 200 200 3M12-2120
			 3M12-0821	 3M12-0921	 3M12-1021	 3M12-1221	 3M12-1521	 3M12-1821	 3M12-2121
2100	2090		 3M12-0821	 3M12-0921	 3M12-1021	 3M12-1221	 3M12-1521	 3M12-1821	 3M12-2121
			 3M12-0824	 3M12-0924	 3M12-1024	 3M12-1224	 3M12-1524	 3M12-1824	 3M12-2124
2400	2390		 3M12-0824	 3M12-0924	 3M12-1024	 3M12-1224	 3M12-1524	 3M12-1824	 3M12-2124
			 3M12-0827	 3M12-0927	 3M12-1027	 3M12-1227	 3M12-1527	 3M12-1827	 3M12-2127
2700	2690		 3M12-0827	 3M12-0927	 3M12-1027	 3M12-1227	 3M12-1527	 3M12-1827	 3M12-2127
			 3M12-0827	 3M12-0927	 3M12-1027	 3M12-1227	 3M12-1527	 3M12-1827	 3M12-2127

3M12型木夹板装饰防火门选用图

图集号 03J609

审核 王祖光 校对 王兵 设计 潘苏萍

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洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
2000	1990	45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
		120, 80, 120 3M13-0820	120, 80, 120 3M13-0920	120, 80, 120 3M13-1020	300, 80, 120 3M13-1220	120, 80, 120 3M13-1520	140, 80, 140 3M13-1820	170, 80, 170 3M13-2120
		5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50 	5, 1940, 45 200, 650, 790, 200, 50
		5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50
2100	2090	45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
		120, 80, 120 3M13-0821	120, 80, 120 3M13-0921	120, 80, 120 3M13-1021	300, 80, 120 3M13-1221	120, 80, 120 3M13-1521	140, 80, 140 3M13-1821	170, 80, 170 3M13-2121
		5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50
		5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50 	5, 2040, 45 200, 700, 840, 200, 100, 50
2400	2390	45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
		120, 80, 120 3M13-0824	120, 80, 120 3M13-0924	120, 80, 120 3M13-1024	300, 80, 120 3M13-1224	120, 80, 120 3M13-1524	140, 80, 140 3M13-1824	170, 80, 170 3M13-2124
		5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50
		5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50 	5, 2340, 45 200, 900, 940, 200, 100, 50
2700	2690	45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
		120, 80, 120 3M13-0827	120, 80, 120 3M13-0927	120, 80, 120 3M13-1027	300, 80, 120 3M13-1227	120, 80, 120 3M13-1527	140, 80, 140 3M13-1827	170, 80, 170 3M13-2127
		5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50 	5, 2640, 42, 45 200, 700, 840, 200, 558, 50
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3M13型木夹板装饰防火门选用图

图集号

03J609

审核

王旭光

校对

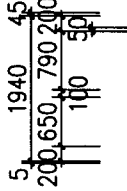
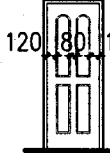
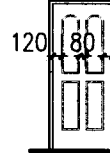
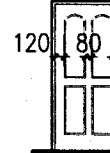
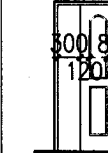
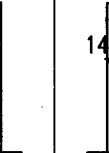
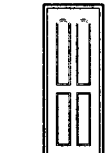
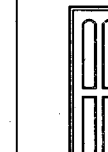
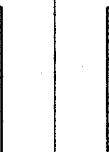
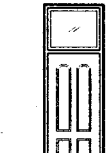
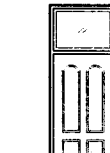
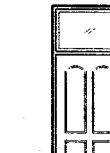
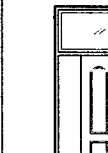
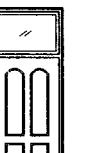
王旭光

设计

张基萍

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45 
2000	1990		 3M14-0820	 3M14-0920	 3M14-1020	 3M14-1220	 3M14-1520	 3M14-1820	 3M14-2120
			 3M14-0821	 3M14-0921	 3M14-1021	 3M14-1221	 3M14-1521	 3M14-1821	 3M14-2121
			 3M14-0824	 3M14-0924	 3M14-1024	 3M14-1224	 3M14-1524	 3M14-1824	 3M14-2124
			 3M14-0827	 3M14-0927	 3M14-1027	 3M14-1227	 3M14-1527	 3M14-1827	 3M14-2127

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
2000	1990	45. 690. 45 120 80 120 3M15-0820	45. 790. 45 120 80 120 3M15-0920	45. 890. 45 120 80 120 3M15-1020	45. 1090. 45 300 80 120 120 3M15-1220	45. 1390. 45 120 80 120 3M15-1520	45. 1690. 45 140 80 140 3M15-1820	45. 1990. 45 170 80 170 3M15-2120
		45. 690. 45 3M15-0821	45. 790. 45 3M15-0921	45. 890. 45 3M15-1021	45. 1090. 45 3M15-1221	45. 1390. 45 3M15-1521	45. 1690. 45 3M15-1821	45. 1990. 45 3M15-2121
		45. 690. 45 3M15-0824	45. 790. 45 3M15-0924	45. 890. 45 3M15-1024	45. 1090. 45 3M15-1224	45. 1390. 45 3M15-1524	45. 1690. 45 3M15-1824	45. 1990. 45 3M15-2124
		45. 690. 45 3M15-0827	45. 790. 45 3M15-0927	45. 890. 45 3M15-1027	45. 1090. 45 3M15-1227	45. 1390. 45 3M15-1527	45. 1690. 45 3M15-1827	45. 1990. 45 3M15-2127

3M15型木夹板装饰防火门选用图

图集号

03J609

审核

王祖光

校对

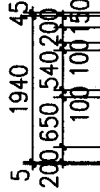
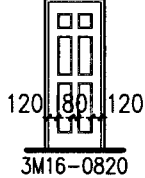
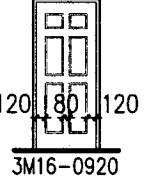
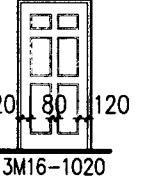
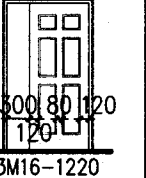
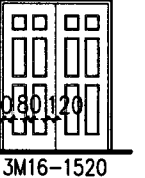
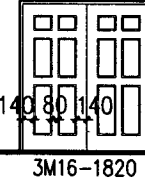
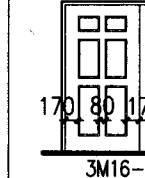
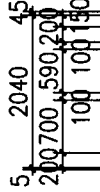
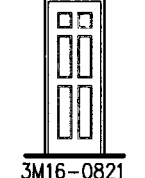
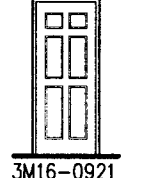
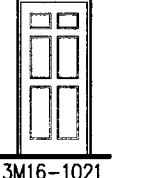
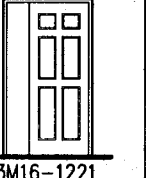
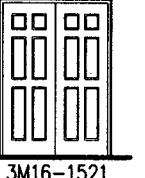
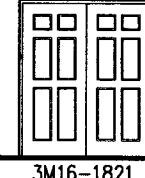
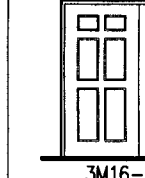
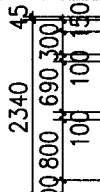
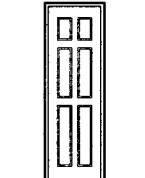
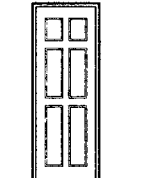
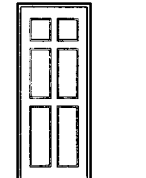
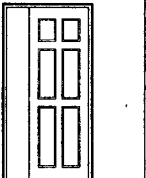
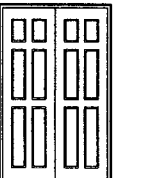
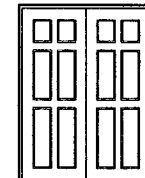
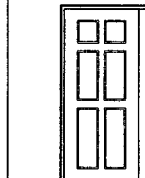
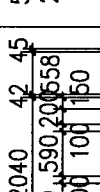
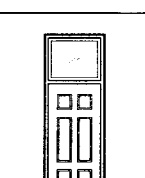
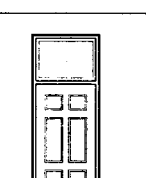
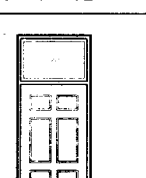
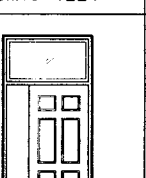
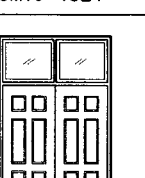
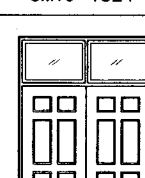
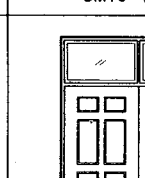
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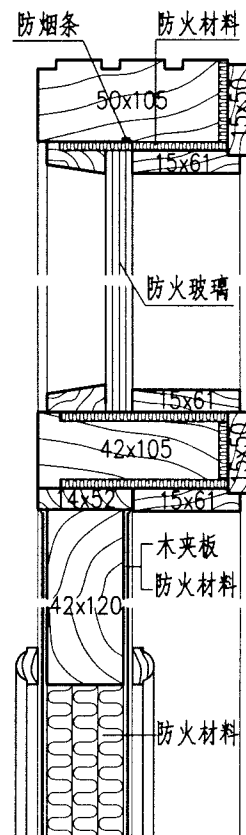
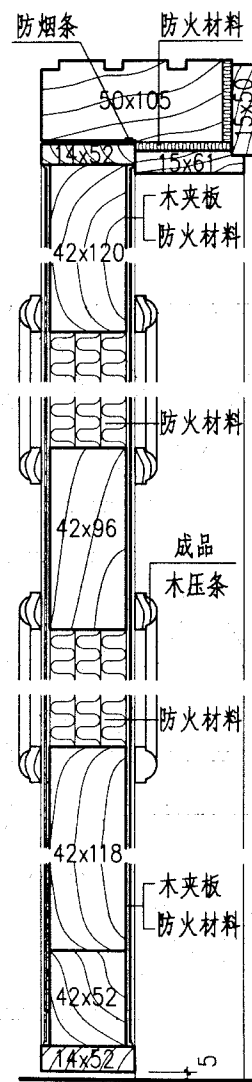
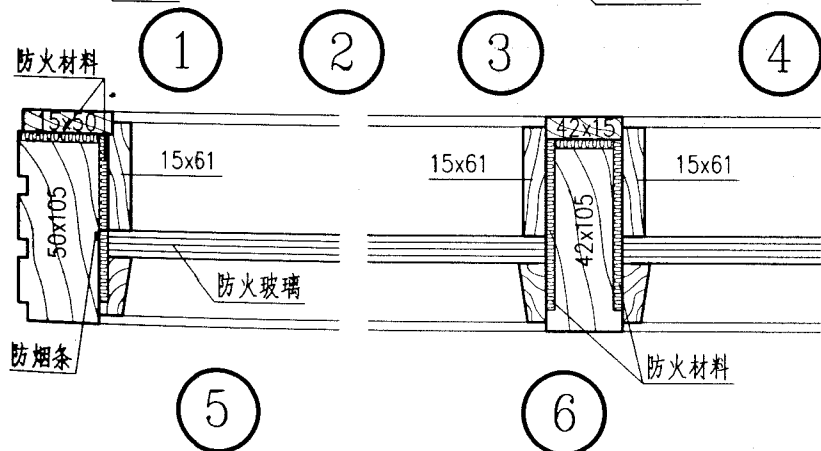
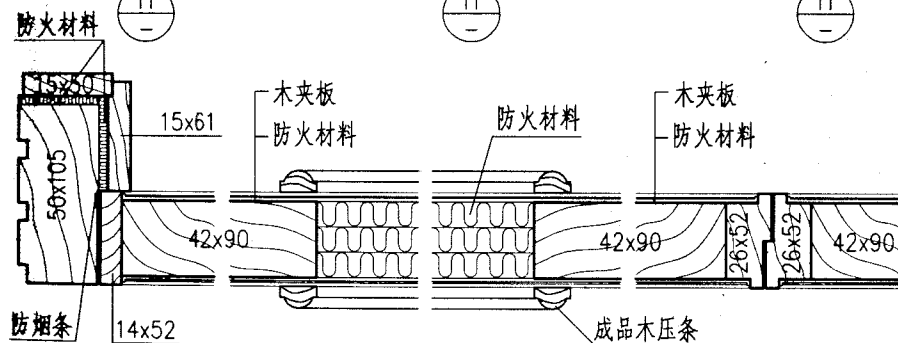
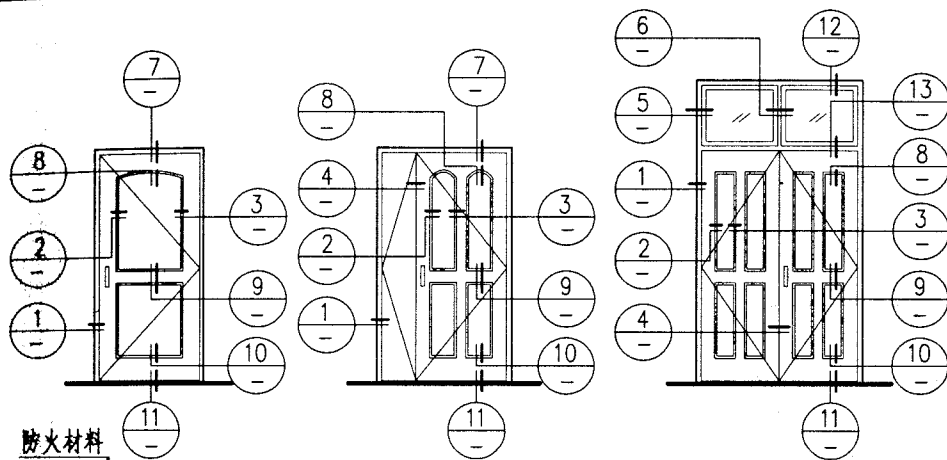
设计

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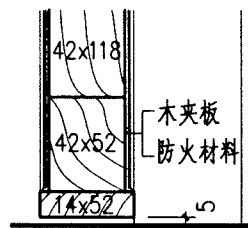
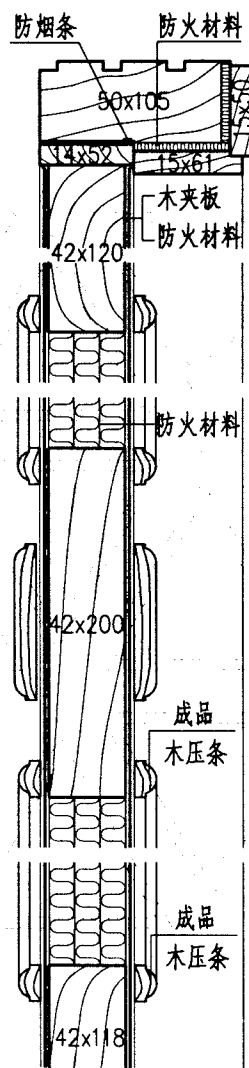
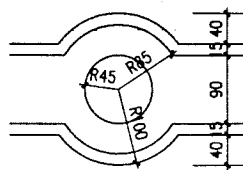
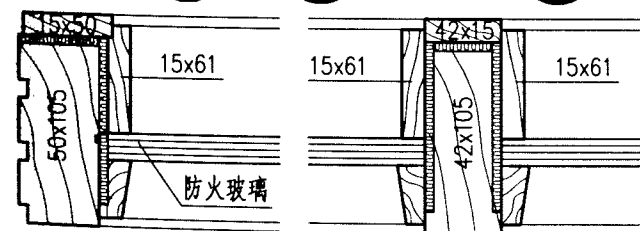
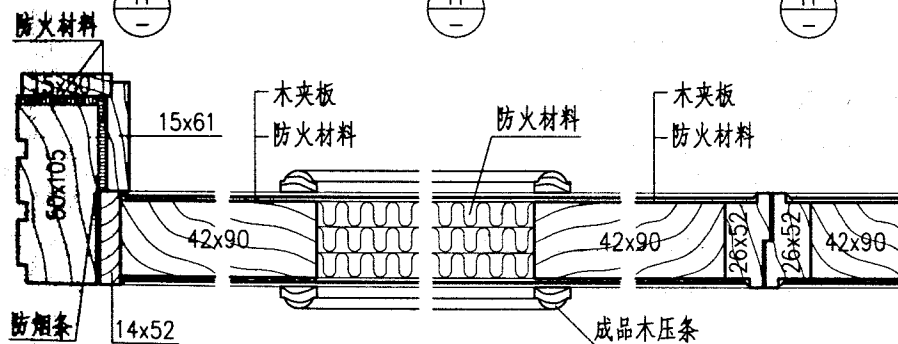
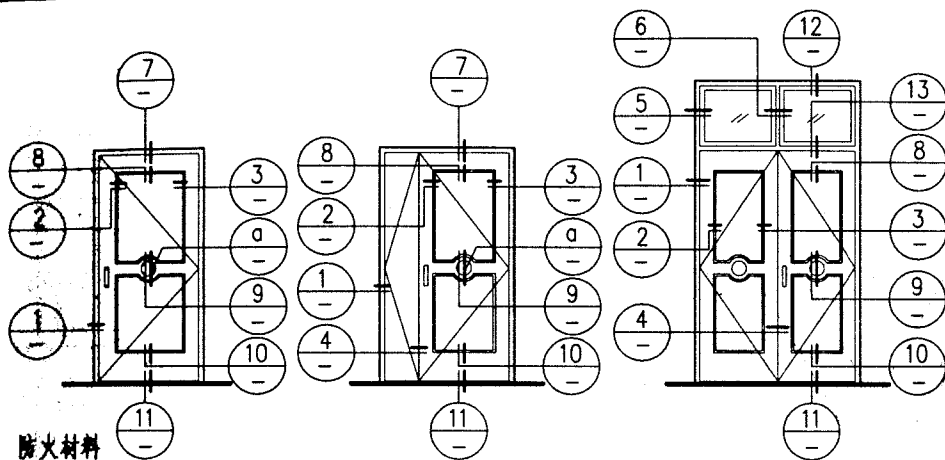
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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45. 690. 45 	45. 790. 45 	45. 890. 45 	45. 1090. 45 	45. 1390. 45 	45. 1690. 45 	45. 1990. 45 
2000	1990		 3M16-0820	 3M16-0920	 3M16-1020	 3M16-1220	 3M16-1520	 3M16-1820	 3M16-2120
2100	2090		 3M16-0821	 3M16-0921	 3M16-1021	 3M16-1221	 3M16-1521	 3M16-1821	 3M16-2121
2400	2390		 3M16-0824	 3M16-0924	 3M16-1024	 3M16-1224	 3M16-1524	 3M16-1824	 3M16-2124
2700	2690		 3M16-0827	 3M16-0927	 3M16-1027	 3M16-1227	 3M16-1527	 3M16-1827	 3M16-2127



3M10~3M16 型木夹板装饰防火门详图				图集号	03J609
审核	王亚光	校对	王亚光	设计	张苏萍
				页	49

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990							
		3M17-0820	3M17-0920	3M17-1020	3M17-1220	3M17-1520	3M17-1820	3M17-2120
2100	2090							
		3M17-0821	3M17-0921	3M17-1021	3M17-1221	3M17-1521	3M17-1821	3M17-2121
2400	2390							
		3M17-0824	3M17-0924	3M17-1024	3M17-1224	3M17-1524	3M17-1824	3M17-2124
2700	2690							
		3M17-0827	3M17-0927	3M17-1027	3M17-1227	3M17-1527	3M17-1827	3M17-2127



3M17型木夹板装饰防火门详图

图集号

03J609

审核 王祖光

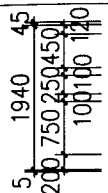
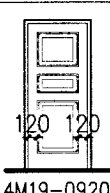
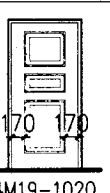
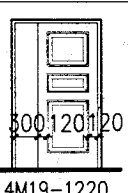
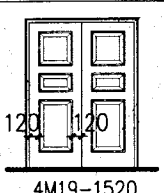
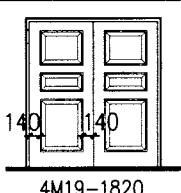
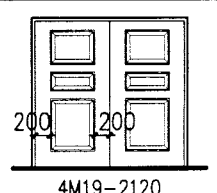
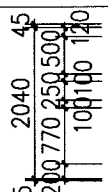
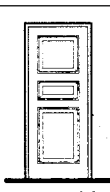
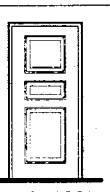
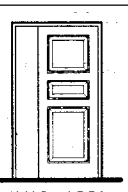
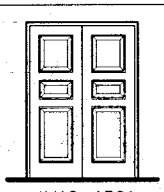
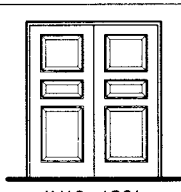
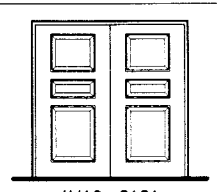
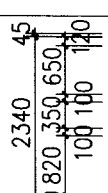
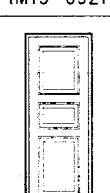
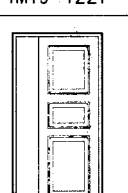
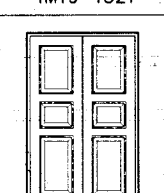
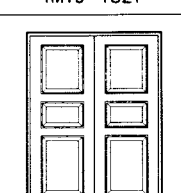
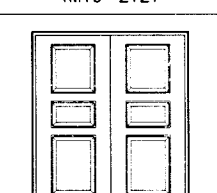
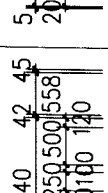
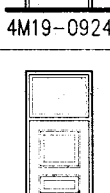
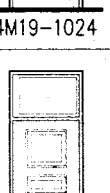
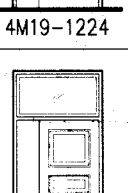
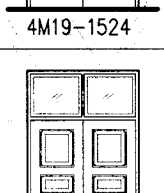
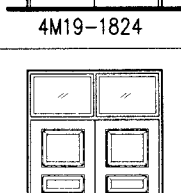
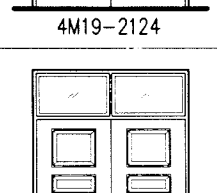
校对 王祖光

设计 王祖光

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45
2000	1990	45 1940 45 200 650 100 50 5 200 200	 120 120 4M18-0820	 120 120 4M18-0920	 170 170 4M18-1020	 300 120 120 4M18-1220	 120 120 4M18-1520	 140 140 4M18-1820	 200 200 4M18-2120
2100	2090	45 2040 45 200 700 100 50 5 200 200	 4M18-0821	 4M18-0921	 4M18-1021	 4M18-1221	 4M18-1521	 4M18-1821	 4M18-2121
2400	2390	45 2340 45 200 900 100 50 5 200 200	 4M18-0824	 4M18-0924	 4M18-1024	 4M18-1224	 4M18-1524	 4M18-1824	 4M18-2124
2700	2690	558 42 45 2040 42 200 700 100 50 5 200 200	 4M18-0827	 4M18-0927	 4M18-1027	 4M18-1227	 4M18-1527	 8M18-1827	 4M18-2127

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45, 690, 45	45, 790, 45	45, 890, 45	45, 1090, 45	45, 1390, 45	45, 1690, 45	45, 1990, 45
2000	1990	 4M19-0820	 4M19-0920	 4M19-1020	 4M19-1220	 4M19-1520	 4M19-1820	 4M19-2120
	2100	 4M19-0821	 4M19-0921	 4M19-1021	 4M19-1221	 4M19-1521	 4M19-1821	 4M19-2121
2400	2390	 4M19-0824	 4M19-0924	 4M19-1024	 4M19-1224	 4M19-1524	 4M19-1824	 4M19-2124
	2700	 4M19-0827	 4M19-0927	 4M19-1027	 4M19-1227	 4M19-1527	 4M19-1827	 4M19-2127

4M19型模压板防火门选用图

图集号

03J609

审核

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校对

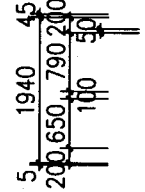
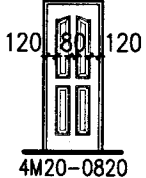
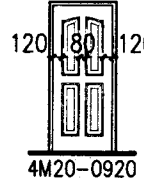
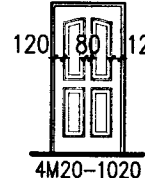
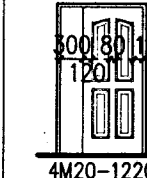
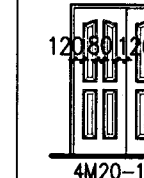
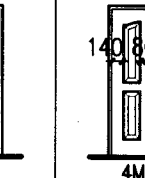
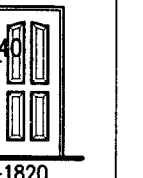
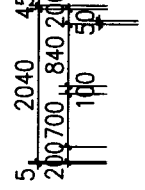
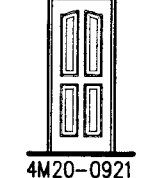
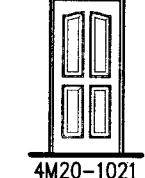
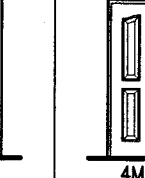
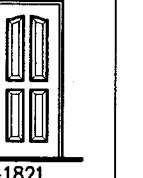
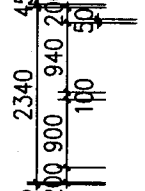
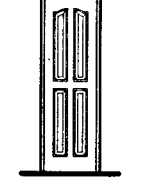
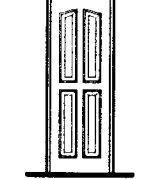
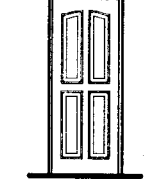
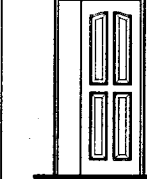
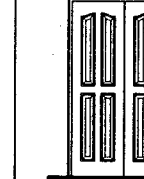
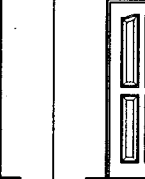
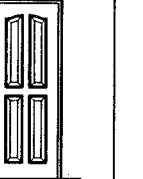
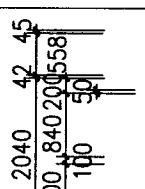
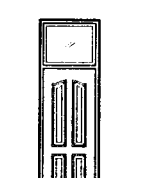
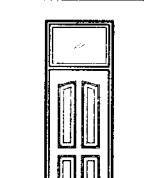
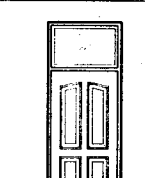
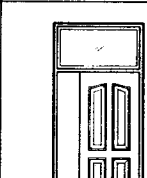
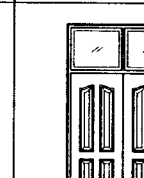
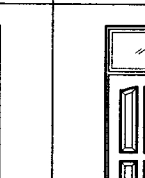
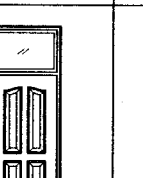
张兵

设计

张苏萍

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45, 690, 45 	45, 790, 45 	45, 890, 45 	45, 1090, 45 	45, 1390, 45 	45, 1690, 45 	45, 1990, 45 
2000	1990		 120, 80, 120 4M20-0820	 120, 80, 120 4M20-0920	 120, 80, 120 4M20-1020	 120, 80, 120 4M20-1220	 120, 80, 120 4M20-1520	 140, 80, 140 4M20-1820	 170, 80, 170 4M20-2120
2100	2090		 4M20-0821	 4M20-0921	 4M20-1021	 4M20-1221	 4M20-1521	 4M20-1821	 4M20-2121
2400	2390		 4M20-0824	 4M20-0924	 4M20-1024	 4M20-1224	 4M20-1524	 4M20-1824	 4M20-2124
2700	2690		 4M20-0827	 4M20-0927	 4M20-1027	 4M20-1227	 4M20-1527	 4M20-1827	 4M20-2127
							4M20 型模压板防火门选用图		图集号
							审核	王祖光	校对
							设计	张磊	页
							54		

洞口尺寸		800	900	1000	1200	1500	1800	2100
框口尺寸		780	880	980	1180	1480	1780	2080
		45 690 45	45 790 45	45 890 45	45 1090 45	45 1390 45	45 1690 45	45 1990 45
2000	1990	 4M21-0820	 4M21-0920	 4M21-1020	 4M21-1220	 4M21-1520	 4M21-1820	 4M21-2120
2100	2090	 4M21-0821	 4M21-0921	 4M21-1021	 4M21-1221	 4M21-1521	 4M21-1821	 4M21-2121
2400	2390	 4M21-0824	 4M21-0924	 4M21-1024	 4M21-1224	 4M21-1524	 4M21-1824	 4M21-2124
2700	2690	 4M21-0827	 4M21-0927	 4M21-1027	 4M21-1227	 4M21-1527	 4M21-1827	 4M21-2127

4M21 型模压板防火门选用图

图集号

03J609

审核 王初光

校对 王兵

设计 张苏萍

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洞口尺寸			800	900	1000	1200	1500	1800	2100
框口尺寸			780	880	980	1180	1480	1780	2080
			45, 690, 45	45, 790, 45	45, 890, 45	45, 1090, 45	45, 1390, 45	45, 1690, 45	45, 1990, 45
2000	1990								
			4M22-0820	4M22-0920	4M22-1020	4M22-1220	4M22-1520	4M22-1820	4M22-2120
2100	2090								
			4M22-0821	4M22-0921	4M22-1021	4M22-1221	4M22-1521	4M22-1821	4M22-2121
2400	2390								
			4M22-0824	4M22-0924	4M22-1024	4M22-1224	4M22-1524	4M22-1824	4M22-2124
2700	2690								
			4M22-0827	4M22-0927	4M22-1027	4M22-1227	4M22-1527	4M22-1827	4M22-2127

4M22 型模压板防火门选用图

图集号

03J609

审核

王祖光

校对

张岳

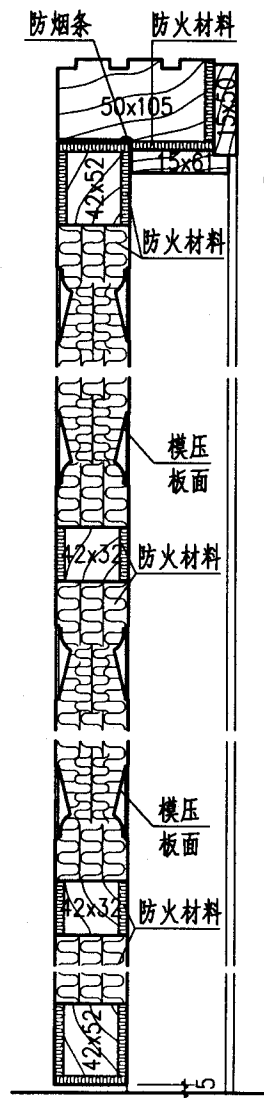
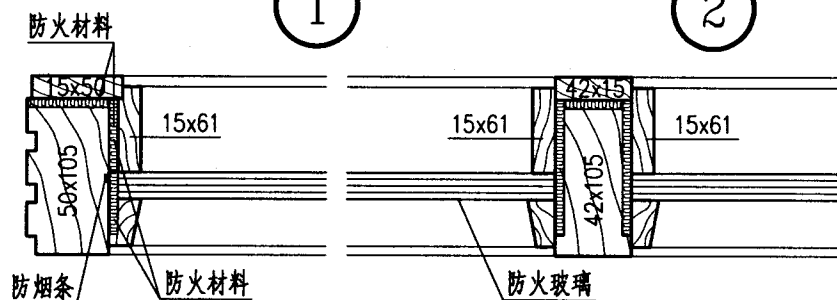
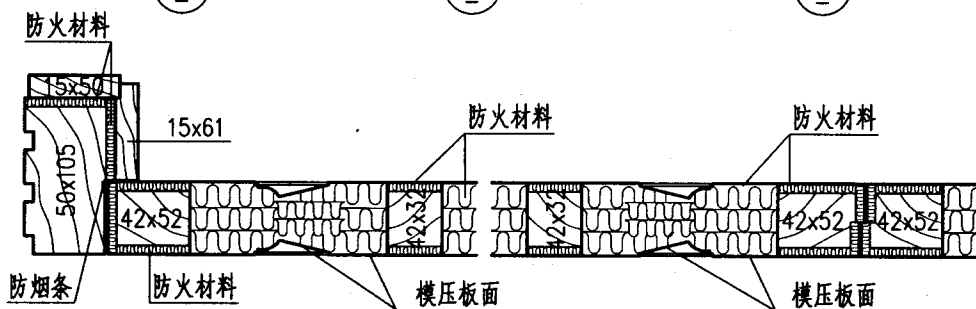
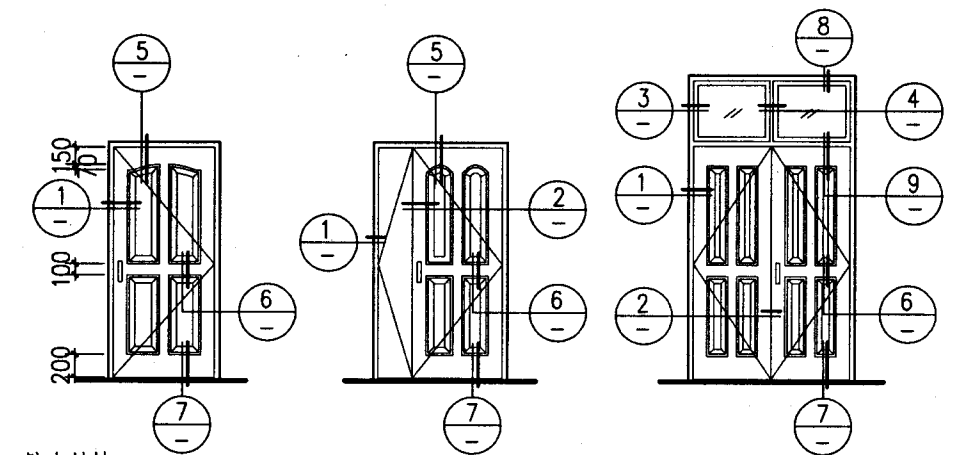
设计

张淑萍

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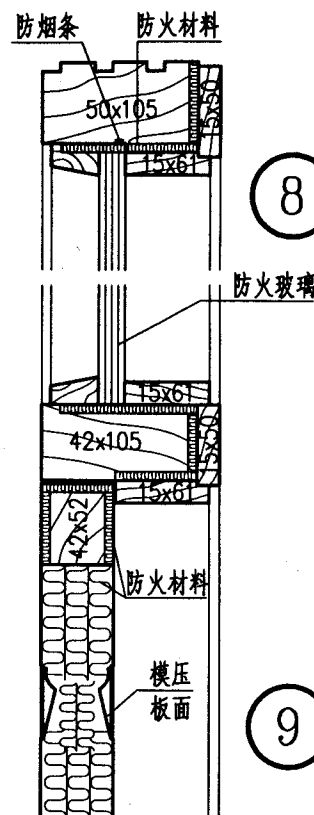
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2000	1980	 4M23-0820	 4M23-0920	 4M23-1020	 4M23-1220	 4M23-1520	 4M23-1820	 4M23-2120
		 4M23-0821	 4M23-0921	 4M23-1021	 4M23-1221	 4M23-1521	 4M23-1821	 4M23-2121
2100	2090	 4M23-0822	 4M23-0922	 4M23-1022	 4M23-1222	 4M23-1522	 4M23-1822	 4M23-2122
		 4M23-0823	 4M23-0923	 4M23-1023	 4M23-1223	 4M23-1523	 4M23-1823	 4M23-2123
2400	2390	 4M23-0824	 4M23-0924	 4M23-1024	 4M23-1224	 4M23-1524	 4M23-1824	 4M23-2124
		 4M23-0825	 4M23-0925	 4M23-1025	 4M23-1225	 4M23-1525	 4M23-1825	 4M23-2125
2700	2690	 4M23-0826	 4M23-0926	 4M23-1026	 4M23-1226	 4M23-1526	 4M23-1826	 4M23-2126
		 4M23-0827	 4M23-0927	 4M23-1027	 4M23-1227	 4M23-1527	 4M23-1827	 4M23-2127



5

6

7



8

9

4M18~4M23型模压板防火门详图

图集号

03J609

审核

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校对

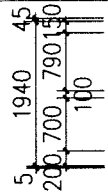
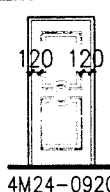
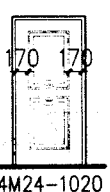
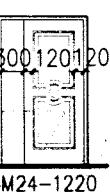
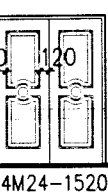
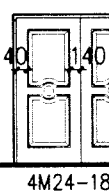
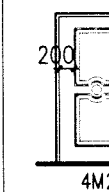
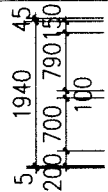
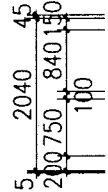
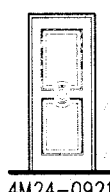
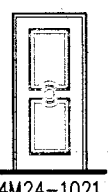
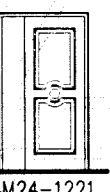
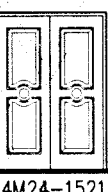
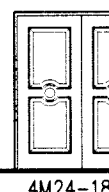
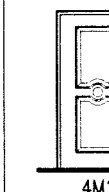
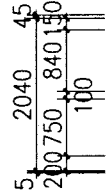
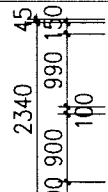
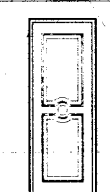
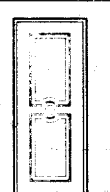
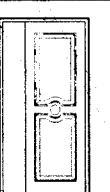
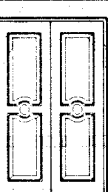
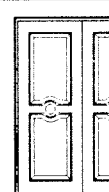
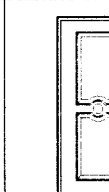
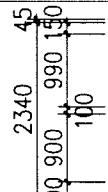
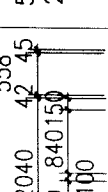
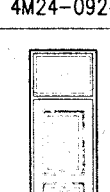
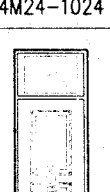
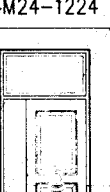
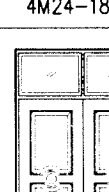
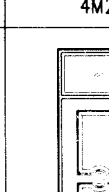
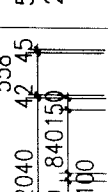
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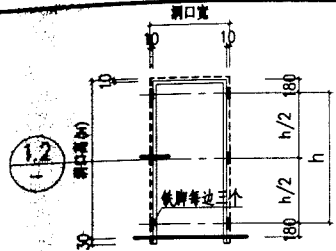
设计

潘苏萍

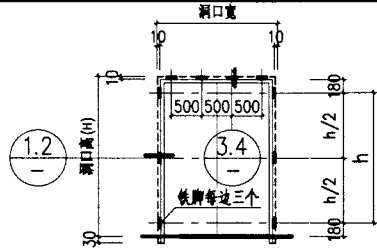
页

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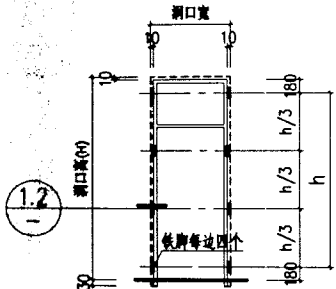
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框口尺寸		780	880	980	1180	1480	1780	2080
		45, 690, 45	45, 790, 45	45, 890, 45	45, 1090, 45	45, 1390, 45	45, 1690, 45	45, 1990, 45
2000	1990	 4M24-0820	 4M24-0920	 4M24-1020	 4M24-1220	 4M24-1520	 4M24-1820	 4M24-2120
		 5, 1940, 45 200, 700, 790, 150, 100						
2100	2090	 4M24-0821	 4M24-0921	 4M24-1021	 4M24-1221	 4M24-1521	 4M24-1821	 4M24-2121
		 5, 2040, 45 200, 750, 840, 150, 100						
2400	2390	 4M24-0824	 4M24-0924	 4M24-1024	 4M24-1224	 4M24-1524	 4M24-1824	 4M24-2124
		 5, 2340, 45 200, 900, 990, 150, 100						
2700	2690	 4M24-0827	 4M24-0927	 4M24-1027	 4M24-1227	 4M24-1527	 4M24-1827	 4M24-2127
		 5, 558, 42, 45 200, 750, 840, 150, 100						



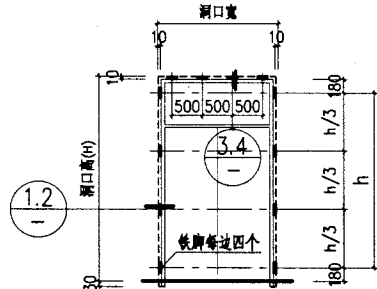
单扇门立口缝隙及铁脚连接位置立面



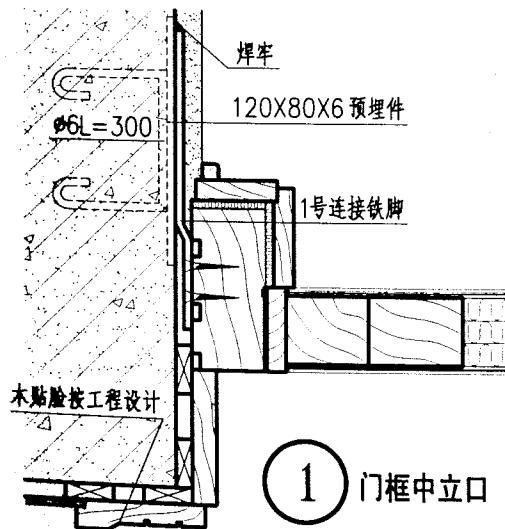
双扇门立口缝隙及铁脚连接位置立面



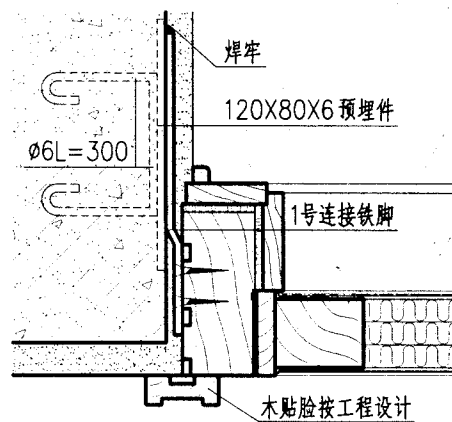
带亮门立口缝隙及铁脚连接位置立面



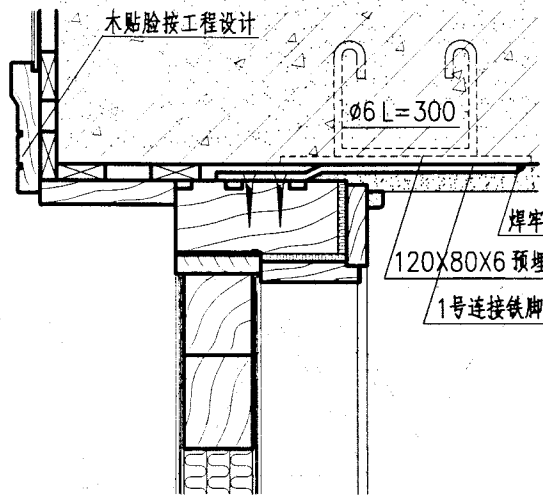
带亮门立口缝隙及铁脚连接位置立面



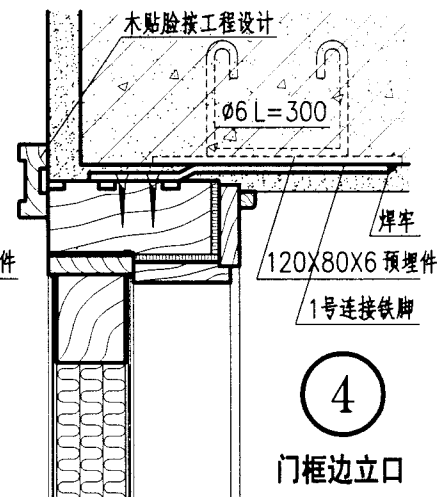
1 门框中立口



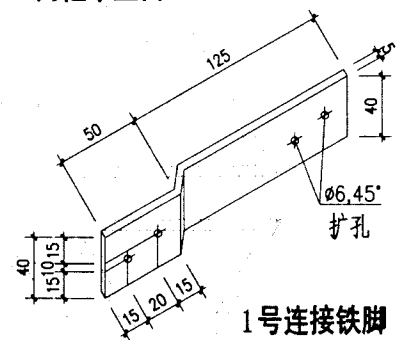
2 门框边立口



3 门框中立口



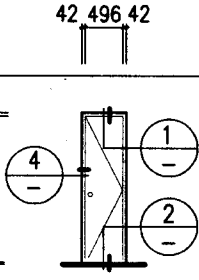
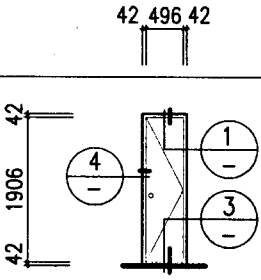
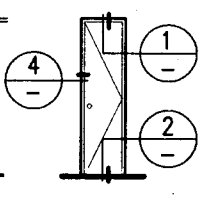
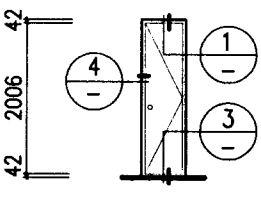
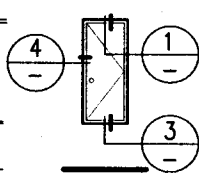
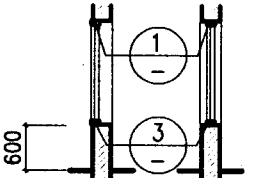
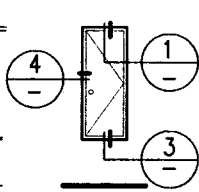
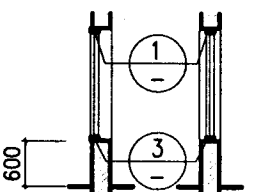
4 门框边立口



1号连接铁脚

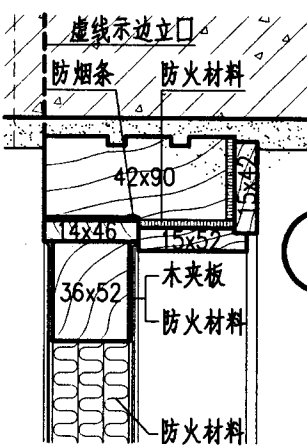
- 注:
1. 木压条, 木贴脸, 筒子板的规格及线型由设计自定。
 2. 位于底层及潮湿房间门洞口筒子板内的墙基面应加做涂料防潮。
 3. 适用墙体:
 - a. 钢筋混凝土墙,
 - b. 混凝土空心砌块墙 (门两侧的空心砌块用混凝土填实), 或作钢筋混凝土构造柱。
 - c. 砖墙,
 - d. 其它轻型防火隔墙 (两侧作钢筋混凝土构造柱)。

2M~4M木防火门洞口与门框连接 安装详图				图集号	03J609
审核	王祖光	校对	张燕	设计	张燕萍
				页	61

洞口尺寸		300	
框口尺寸		380	
2000	1990	 5M01-0620	 5M02-0620
		剖面	
2100	2090	 5M01-0621	 5M02-0621
		剖面	
1400	1390	 5M03-0614	 剖面
1500	1490	 5M03-0615	 剖面

注:

1. 本图为二级防火门。
2. 所注的防火材料及木夹板均由定点生产厂家提供并负责加工制作成品门, 详见厂家说明。
3. 门框与门洞连接固定铁件详见 61 页。



虚线示边立口

防烟条

防火材料

42x90

4x46

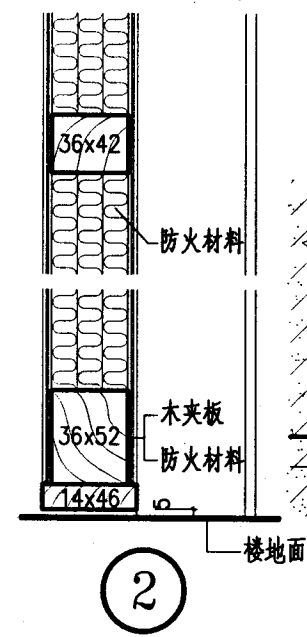
15x52

36x52

木夹板

防火材料

1



42x90

14x46

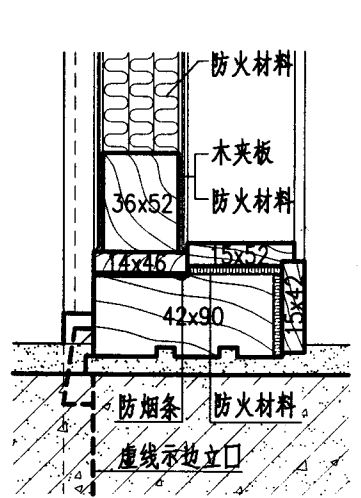
36x52

木夹板

防火材料

楼地面

2



防火材料

木夹板

防火材料

36x52

15x52

42x90

14x46

36x42

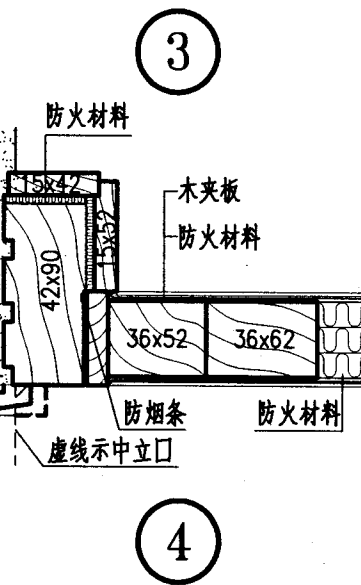
防火材料

防烟条

防火材料

虚线示边立口

3



防火材料

木夹板

防火材料

42x90

36x52

36x62

防火材料

防烟条

虚线示中立口

4

5M01~03 管道井木防火门详图			图集号	03J609
审核	王旭光	校对	王旭光	设计
页	62			

洞口尺寸

框口尺寸

600

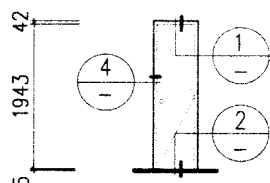
580

42 496 42

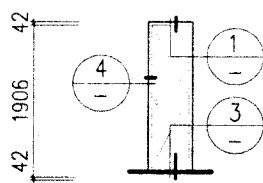
42 496 42

2000

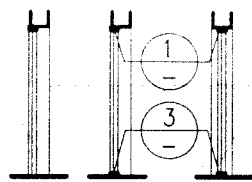
1990



5M04-0620



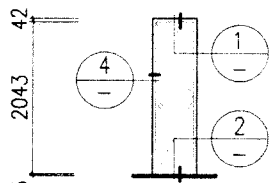
5M05-0620



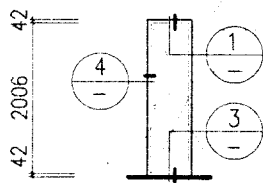
剖面

2100

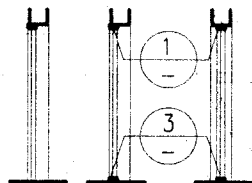
2090



5M04-0621



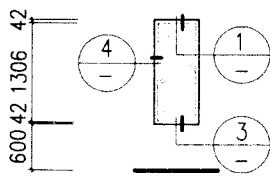
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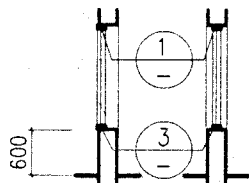
剖面

1400

1390



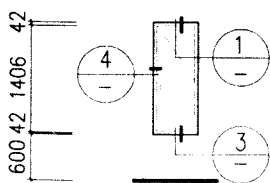
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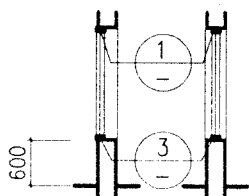
剖面

1500

1490



5M06-0615



剖面

注:

1. 本图为丙级防火钢门。
2. 门框与门洞连接固定铁件详见 30 页。

虚线示边立口

C20混凝土

42x90

4厚防火膨胀

密闭条

厚薄钢板

0.8~1.2

防火材料

1.0厚薄钢板

40

门框固定件

楼地面

0.8~1.2厚薄钢板

防火材料

4厚防火膨胀

密闭条

42x90

C20混凝土

虚线示边立口

3

C20混凝土

4厚防火膨胀

密闭条

42x90

虚线示中立口

4

2

5M04~06 管道井钢防火门详图

图集号

03J609

审核 王祖光

校对 王祖光

设计 王祖光

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1J 钢 防 火 卷 帘 选 用 要 点

钢防火卷帘系根据《钢质防火卷帘通用技术条件》GB14102-93及相关企业标准设计制作,系由帘板、导轨、座板、门楣、箱体、卷帘板及控制箱所组成的能满足耐火极限和热辐射强度的卷帘。按《高层民用建筑设计规范》GB50045-95(2001年版)规定,做为防火分区分隔时,卷帘两侧应设置独立的闭式自动喷水系统保护,喷水延续时间不小于3.0h,喷水强度不小于0.5L/s.m,喷头间距应为2m至2.5m,喷头距卷帘的距离宜为0.5m。

该卷帘有电动、手动及自动三种操作方式。控制箱设置烟感、温感控制系统,既能独立动作又能由消防中心联动进行自动控制,并具有使卷帘启闭、两步下降等自动控制功能。

1 适用范围:适用于民用建筑和工业建筑的防火分区分隔,洞口最大尺寸,宽为18000mm,高为9000mm。

2 技术性能指标:

2.1 耐火时间(h):1.5; 2.0; 2.5; 3.0。

2.2 漏烟量($m^3/m^2 \cdot min$): ≤ 0.2 。

2.3 启闭速度(mm/min):2000~9000。

2.4 主要技术参数见表2.4

表2.4 常用洞口尺寸及技术参数

洞口宽度(W) (mm)	洞口高度(H) (mm)	卷机功率 (W)	卷轴直径 (mm)	卷帘箱总重量 (Kg)	箱罩高度 (mm)	箱罩宽度 (mm)
W $\leq$ 3600	H $\leq$ 3600	250	ϕ 140	600	500	600
3600<W $\leq$ 4800	3600<H $\leq$ 3900	370	ϕ 140	700	550	650
4800<W $\leq$ 6000	3900<H $\leq$ 4500	550	ϕ 165	800	650	800
6000<W $\leq$ 9000	4500<H $\leq$ 5100	750	ϕ 219	1200	800	1000

3 导轨规格尺寸见表3。

表3 导轨规格尺寸表 单位 mm

洞口宽度(W)	导轨深度	帘板嵌入导轨深度
W $\leq$ 3000	75	45
3000<W $\leq$ 5000	80	50
5000<W $\leq$ 9000	90	60
9000<W $\leq$ 12000	120	80
12000<W $\leq$ 18000	150	100

4. 安装要求:

4.1 防火卷帘与墙体的安装固定可采用预埋钢板焊接或用胀锚螺栓连接。墙体应为钢筋混凝土墙,如系轻型砌块墙则在洞口两侧作钢筋混凝土构造柱。

4.2 卷帘导轨应与地面垂直。导轨与预埋件焊接,焊接高3mm,每条焊缝长3mm,间距500mm,焊接处应清除焊渣,补刷涂料。

4.3 按钮盒距楼地面面层约1300mm。

4.4 控制箱应安装在卷门机附近以便维修,连接导线不得外露,接地要可靠。

5. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司(原北京市新型防火装备厂)提供的技术资料绘制。

1J 钢防火卷帘选用要点

图集号

03J609

审核

王祖光

校对

张岳

设计

张淑萍

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1J 钢 防 火 卷 帘 选 用 表

W H	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2400	1J1-2124	1J1-2424	1J1-2724	1J1-3024	1J1-3324	1J1-3624	1J1-3924	1J1-4224	1J1-4524	1J1-4824	1J1-5124	1J1-5424
	1J2-2124	1J2-2424	1J2-2724	1J2-3024	1J2-3324	1J2-3624	1J2-3924	1J2-4224	1J2-4524	1J2-4824	1J2-5124	1J2-5424
2700	1J1-2127	1J1-2427	1J1-2727	1J1-3027	1J1-3327	1J1-3627	1J1-3927	1J1-4227	1J1-4527	1J1-4827	1J1-5127	1J1-5427
	1J2-2127	1J2-2427	1J2-2727	1J2-3027	1J2-3327	1J2-3627	1J2-3927	1J2-4227	1J2-4527	1J2-4827	1J2-5127	1J2-5427
3000	1J1-2130	1J1-2430	1J1-2730	1J1-3030	1J1-3330	1J1-3630	1J1-3930	1J1-4230	1J1-4530	1J1-4830	1J1-5130	1J1-5430
	1J2-2130	1J2-2430	1J2-2730	1J2-3030	1J2-3330	1J2-3630	1J2-3930	1J2-4230	1J2-4530	1J2-4830	1J2-5130	1J2-5430
3300	1J1-2133	1J1-2433	1J1-2733	1J1-3033	1J1-3333	1J1-3633	1J1-3933	1J1-4233	1J1-4533	1J1-4833	1J1-5133	1J1-5433
	1J2-2133	1J2-2433	1J2-2733	1J2-3033	1J2-3333	1J2-3633	1J2-3933	1J2-4233	1J2-4533	1J2-4833	1J2-5133	1J2-5433
3600						1J1-3636	1J1-3936	1J1-4236	1J1-4536	1J1-4836	1J1-5136	1J1-5436
						1J2-3636	1J2-3936	1J2-4236	1J2-4536	1J2-4836	1J2-5136	1J2-5436
3900									1J1-4539	1J1-4839	1J1-5139	1J1-5439
									1J2-4539	1J2-4839	1J2-5139	1J2-5439
4200											1J1-5142	1J1-5442
											1J2-5142	1J2-5442
W H	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
2400	1J1-5724	1J1-6024	1J1-6324	1J1-6624	1J1-6924	1J1-7224	1J1-7524	1J1-7824	1J1-8124	1J1-8424	1J1-8724	1J1-9024
	1J2-5724	1J2-6024	1J2-6324	1J2-6624	1J2-6924	1J2-7224	1J2-7524	1J2-7824	1J2-8124	1J2-8424	1J2-8724	1J2-9024
2700	1J1-5727	1J1-6027	1J1-6327	1J1-6627	1J1-6927	1J1-7227	1J1-7527	1J1-7827	1J1-8127	1J1-8427	1J1-8727	1J1-9027
	1J2-5727	1J2-6027	1J2-6327	1J2-6627	1J2-6927	1J2-7227	1J2-7527	1J2-7827	1J2-8127	1J2-8427	1J2-8727	1J2-9027
3000	1J1-5730	1J1-6030	1J1-6330	1J1-6630	1J1-6930	1J1-7230	1J1-7530	1J1-7830	1J1-8130	1J1-8430	1J1-8730	1J1-9030
	1J2-5730	1J2-6030	1J2-6330	1J2-6630	1J2-6930	1J2-7230	1J2-7530	1J2-7830	1J2-8130	1J2-8430	1J2-8730	1J2-9030
3300	1J1-5733	1J1-6033	1J1-6333	1J1-6633	1J1-6933	1J1-7233	1J1-7533	1J1-7833	1J1-8133	1J1-8433	1J1-8733	1J1-9033
	1J2-5733	1J2-6033	1J2-6333	1J2-6633	1J2-6933	1J2-7233	1J2-7533	1J2-7833	1J2-8133	1J2-8433	1J2-8733	1J2-9033
3600	1J1-5736	1J1-6036	1J1-6336	1J1-6636	1J1-6936	1J1-7236	1J1-7536	1J1-7836	1J1-8136	1J1-8436	1J1-8736	1J1-9036
	1J2-5736	1J2-6036	1J2-6336	1J2-6636	1J2-6936	1J2-7236	1J2-7536	1J2-7836	1J2-8136	1J2-8436	1J2-8736	1J2-9036
3900	1J1-5739	1J1-6039	1J1-6339	1J1-6639	1J1-6939	1J1-7239	1J1-7539	1J1-7839	1J1-8139	1J1-8439	1J1-8739	1J1-9039
	1J2-5739	1J2-6039	1J2-6339	1J2-6639	1J2-6939	1J2-7239	1J2-7539	1J2-7839	1J2-8139	1J2-8439	1J2-8739	1J2-9039
4200	1J1-5742	1J1-6042	1J1-6342	1J1-6642	1J1-6942	1J1-7242	1J1-7542	1J1-7842	1J1-8142	1J1-8442	1J1-8742	1J1-9042
	1J2-5742	1J2-6042	1J2-6342	1J2-6642	1J2-6942	1J2-7242	1J2-7542	1J2-7842	1J2-8142	1J2-8442	1J2-8742	1J2-9042
4500	1J1-5745	1J1-6045	1J1-6345	1J1-6645	1J1-6945	1J1-7245	1J1-7545	1J1-7845	1J1-8145	1J1-8445	1J1-8745	1J1-9045
	1J2-5745	1J2-6045	1J2-6345	1J2-6645	1J2-6945	1J2-7245	1J2-7545	1J2-7845	1J2-8145	1J2-8445	1J2-8745	1J2-9045
4800		1J1-6048	1J1-6348	1J1-6648	1J1-6948	1J1-7248	1J1-7548	1J1-7848	1J1-8148	1J1-8448	1J1-8748	1J1-9048
		1J2-6048	1J2-6348	1J2-6648	1J2-6948	1J2-7248	1J2-7548	1J2-7848	1J2-8148	1J2-8448	1J2-8748	1J2-9048
5100		1J1-6051	1J1-6351	1J1-6651	1J1-6951	1J1-7251	1J1-7551	1J1-7851	1J1-8151	1J1-8451	1J1-8751	1J1-9051
		1J2-6051	1J2-6351	1J2-6651	1J2-6951	1J2-7251	1J2-7551	1J2-7851	1J2-8151	1J2-8451	1J2-8751	1J2-9051

注：1. 防火卷帘的断面用料尺寸，洞口预埋件及安装装饰详见 72~73 页。

2. 1J1 为墙侧装，1J2 为墙中装。

3. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

1J 钢 防 火 卷 帘 选 用 表

图 集 号

03J609

审 核

王 沁 光

校 对

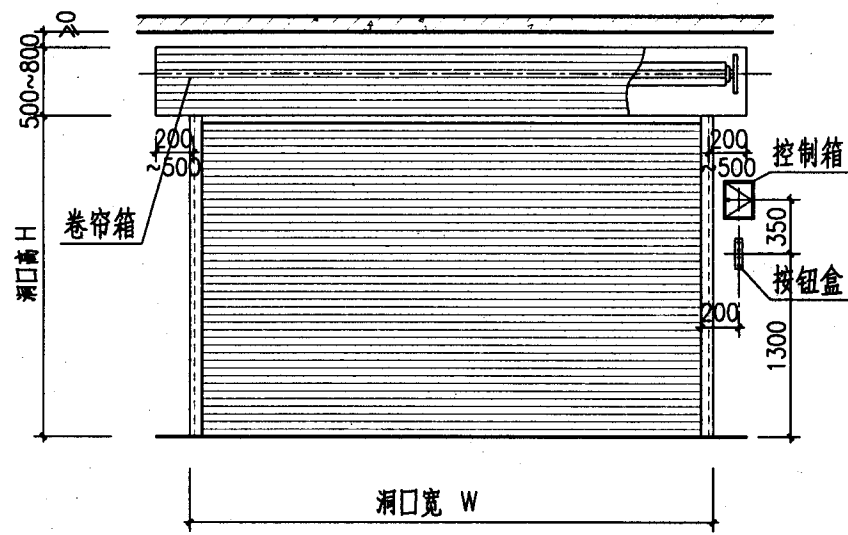
王 兵

设 计

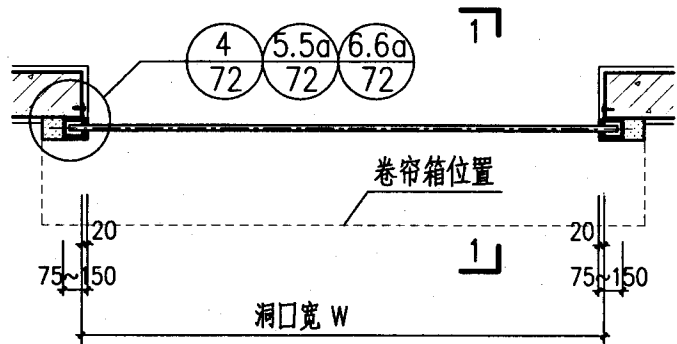
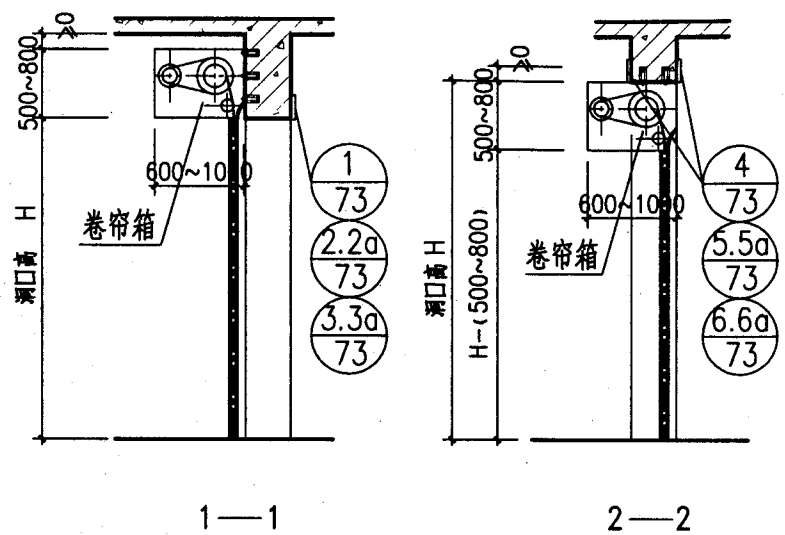
潘 嘉 萍

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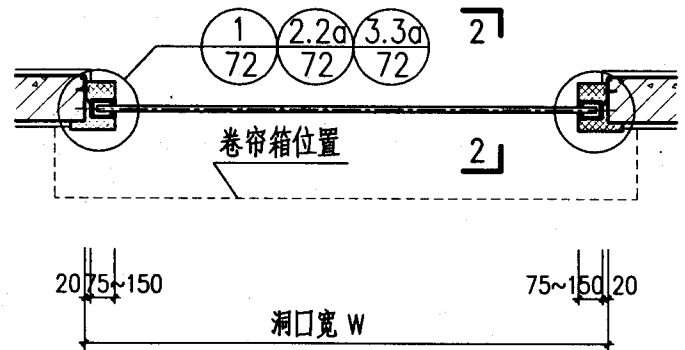
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1J 钢防火卷帘立面图



1J1 (侧装) 平面图

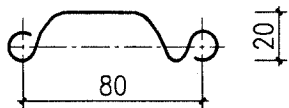
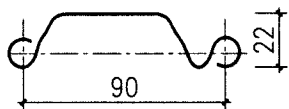
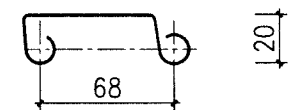
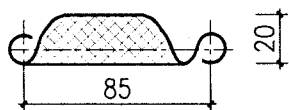
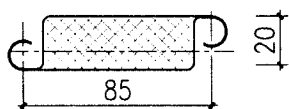


1J2 (中装) 平面图

注：1. 该防火卷帘的断面用料尺寸，洞口预埋件及安装装饰详见72~73页。
 2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

1J 钢防火卷帘平、立、剖面图				图集号	03J609
审核	王和光	校对	王岳	设计	张苏萍
				页	66

帘板型式与规格

名称	帘板型式	板厚 (mm)		
单片帘板		1.0	1.2	1.5
单片帘板		1.2	1.5	
单片帘板		0.8	1.0	1.2
复合夹芯帘板		1.0	1.2	
复合夹芯帘板		1.0	1.2	

技术要求:

1. 帘板型式选用与卷帘防火等级及门洞口大小有关。
2. 复合夹芯帘板的夹芯材料为硅酸铝矿棉或岩棉。
3. 复合夹芯帘板两层的板厚可不同, 厚的一面为迎火面。
4. 帘板为镀锌钢板或彩钢板。
5. 图示为五种常用帘板型式, 各厂家产品有所差异, 详见具体产品技术资料。

2J 水雾式钢特级防火卷帘选用要点

水雾式钢特级防火卷帘系根据《钢质防火卷帘通用技术条件》GB14102-93及有关企业标准设计制作。为保证其防火功能又节约消防用水, 将喷水系统改为水雾系统, 该系统采用切向漩涡式喷头将水雾化到0.1mm左右的水珠喷向帘面, 使之强行冷却, 其用水量比喷淋式大为减少, 节约用水效果十分明显。

水雾能消除烟气、降低环境温度, 为人员疏散提供更多时间。水雾还可对卷帘传动部分及电控箱实行冷却, 使其在火灾状态下能有效地运行。

1. 适用范围: 适用于以帘背火面温升为限定条件 (平均温升 $\leq 140^{\circ}\text{C}$, 最高温升 $\leq 180^{\circ}\text{C}$) 耐火极限 $\geq 3.0\text{h}$, 不设自动喷淋的防火分区分隔。洞口最大尺寸宽为9000mm, 高为6000mm。

2. 技术性能指标:

采用各层消防栓系统供水, 最佳压力为 0.4MPa 布置到帘帘侧面, 布水强度为 $0.3\text{m}^3/\text{m}\cdot\text{h}$, 喷头间距 $300\text{mm}\sim 400\text{mm}$, 喷头与帘面的距离为 $600\text{mm}\sim 700\text{mm}$ 。

2.1 耐火时间 (h): 3.0 。

2.2 热辐射强度 (W/cm^2): ≤ 0.96 。

2.3 启闭速度 (mm/min): $2000\sim 9000$ 。

水雾系统设有“机械式温感释放装置”, 即使在停电时卷帘不下降, 探头失灵、电磁阀失效时, 当现场温度达到 68°C 时, “温感玻球”自爆水雾喷头即开始工作, 抑制火势蔓延。

3. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司 (原北京市新型防火装备厂) 提供的技术资料绘制。

2J 水雾式钢特级 防火卷帘选用要点

图集号 03J609

审核 王沁光 校对 张岳 设计 凌苏萍 页 67

2J 水雾式钢特级防火卷帘选用表

H \ W												
	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2400	2J1-2124	2J1-2424	2J1-2724	2J1-3024	2J1-3324	2J1-3624	2J1-3924	2J1-4224	2J1-4524	2J1-4824	2J1-5124	2J1-5424
	2J2-2124	2J2-2424	2J2-2724	2J2-3024	2J2-3324	2J2-3624	2J2-3924	2J2-4224	2J2-4524	2J2-4824	2J2-5124	2J2-5424
2700	2J1-2127	2J1-2427	2J1-2727	2J1-3027	2J1-3327	2J1-3627	2J1-3927	2J1-4227	2J1-4527	2J1-4827	2J1-5127	2J1-5427
	2J2-2127	2J2-2427	2J2-2727	2J2-3027	2J2-3327	2J2-3627	2J2-3927	2J2-4227	2J2-4527	2J2-4827	2J2-5127	2J2-5427
3000	2J1-2130	2J1-2430	2J1-2730	2J1-3030	2J1-3330	2J1-3630	2J1-3930	2J1-4230	2J1-4530	2J1-4830	2J1-5130	2J1-5430
	2J2-2130	2J2-2430	2J2-2730	2J2-3030	2J2-3330	2J2-3630	2J2-3930	2J2-4230	2J2-4530	2J2-4830	2J2-5130	2J2-5430
3300	2J1-2133	2J1-2433	2J1-2733	2J1-3033	2J1-3333	2J1-3633	2J1-3933	2J1-4233	2J1-4533	2J1-4833	2J1-5133	2J1-5433
	2J2-2133	2J2-2433	2J2-2733	2J2-3033	2J2-3333	2J2-3633	2J2-3933	2J2-4233	2J2-4533	2J2-4833	2J2-5133	2J2-5433
3600						2J1-3636	2J1-3936	2J1-4236	2J1-4536	2J1-4836	2J1-5136	2J1-5436
						2J2-3636	2J2-3936	2J2-4236	2J2-4536	2J2-4836	2J2-5136	2J2-5436
3900									2J1-4539	2J1-4839	2J1-5139	2J1-5439
									2J2-4539	2J2-4839	2J2-5139	2J2-5439
4200											2J1-5142	2J1-5442
											2J2-5142	2J2-5442
H \ W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
2400	2J1-5724	2J1-6024	2J1-6324	2J1-6624	2J1-6924	2J1-7224	2J1-7524	2J1-7824	2J1-8124	2J1-8424	2J1-8724	2J1-9024
	2J2-5724	2J2-6024	2J2-6324	2J2-6624	2J2-6924	2J2-7224	2J2-7524	2J2-7824	2J2-8124	2J2-8424	2J2-8724	2J2-9024
2700	2J1-5727	2J1-6027	2J1-6327	2J1-6627	2J1-6927	2J1-7227	2J1-7527	2J1-7827	2J1-8127	2J1-8427	2J1-8727	2J1-9027
	2J2-5727	2J2-6027	2J2-6327	2J2-6627	2J2-6927	2J2-7227	2J2-7527	2J2-7827	2J2-8127	2J2-8427	2J2-8727	2J2-9027
3000	2J1-5730	2J1-6030	2J1-6330	2J1-6630	2J1-6930	2J1-7230	2J1-7530	2J1-7830	2J1-8130	2J1-8430	2J1-8730	2J1-9030
	2J2-5730	2J2-6030	2J2-6330	2J2-6630	2J2-6930	2J2-7230	2J2-7530	2J2-7830	2J2-8130	2J2-8430	2J2-8730	2J2-9030
3300	2J1-5733	2J1-6033	2J1-6333	2J1-6633	2J1-6933	2J1-7233	2J1-7533	2J1-7833	2J1-8133	2J1-8433	2J1-8733	2J1-9033
	2J2-5733	2J2-6033	2J2-6333	2J2-6633	2J2-6933	2J2-7233	2J2-7533	2J2-7833	2J2-8133	2J2-8433	2J2-8733	2J2-9033
3600	2J1-5736	2J1-6036	2J1-6336	2J1-6636	2J1-6936	2J1-7236	2J1-7536	2J1-7836	2J1-8136	2J1-8436	2J1-8736	2J1-9036
	2J2-5736	2J2-6036	2J2-6336	2J2-6636	2J2-6936	2J2-7236	2J2-7536	2J2-7836	2J2-8136	2J2-8436	2J2-8736	2J2-9036
3900	2J1-5739	2J1-6039	2J1-6339	2J1-6639	2J1-6939	2J1-7239	2J1-7539	2J1-7839	2J1-8139	2J1-8439	2J1-8739	2J1-9039
	2J2-5739	2J2-6039	2J2-6339	2J2-6639	2J2-6939	2J2-7239	2J2-7539	2J2-7839	2J2-8139	2J2-8439	2J2-8739	2J2-9039
4200	2J1-5742	2J1-6042	2J1-6342	2J1-6642	2J1-6942	2J1-7242	2J1-7542	2J1-7842	2J1-8142	2J1-8442	2J1-8742	2J1-9042
	2J2-5742	2J2-6042	2J2-6342	2J2-6642	2J2-6942	2J2-7242	2J2-7542	2J2-7842	2J2-8142	2J2-8442	2J2-8742	2J2-9042
4500	2J1-5745	2J1-6045	2J1-6345	2J1-6645	2J1-6945	2J1-7245	2J1-7545	2J1-7845	2J1-8145	2J1-8445	2J1-8745	2J1-9045
	2J2-5745	2J2-6045	2J2-6345	2J2-6645	2J2-6945	2J2-7245	2J2-7545	2J2-7845	2J2-8145	2J2-8445	2J2-8745	2J2-9045
4800		2J1-6048	2J1-6348	2J1-6648	2J1-6948	2J1-7248	2J1-7548	2J1-7848	2J1-8148	2J1-8448	2J1-8748	2J1-9048
		2J2-6048	2J2-6348	2J2-6648	2J2-6948	2J2-7248	2J2-7548	2J2-7848	2J2-8148	2J2-8448	2J2-8748	2J2-9048
5100		2J1-6051	2J1-6351	2J1-6651	2J1-6951	2J1-7251	2J1-7551	2J1-7851	2J1-8151	2J1-8451	2J1-8751	2J1-9051
		2J2-6051	2J2-6351	2J2-6651	2J2-6951	2J2-7251	2J2-7551	2J2-7851	2J2-8151	2J2-8451	2J2-8751	2J2-9051

注：1. 防火卷帘的断面用料尺寸、洞口预埋件及安装装饰详见 72~73 页。

2. 2J1 为墙侧装，2J2 为墙中装。

3. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

2J 水雾式钢特级防火卷帘选用表

图集号

03J609

审核

王沁光

校对

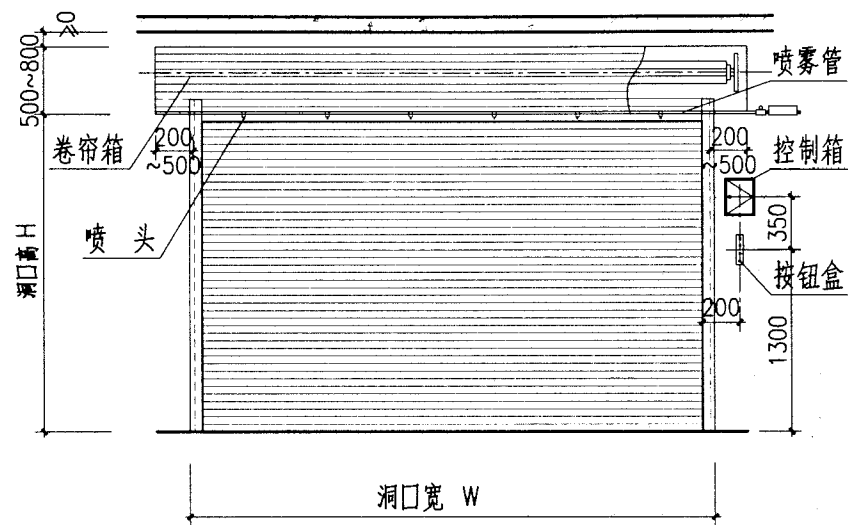
王岳

设计

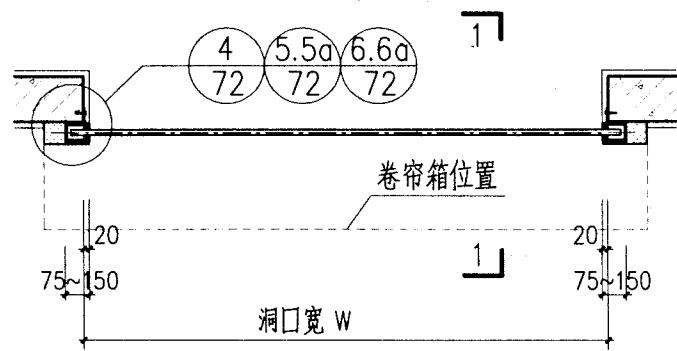
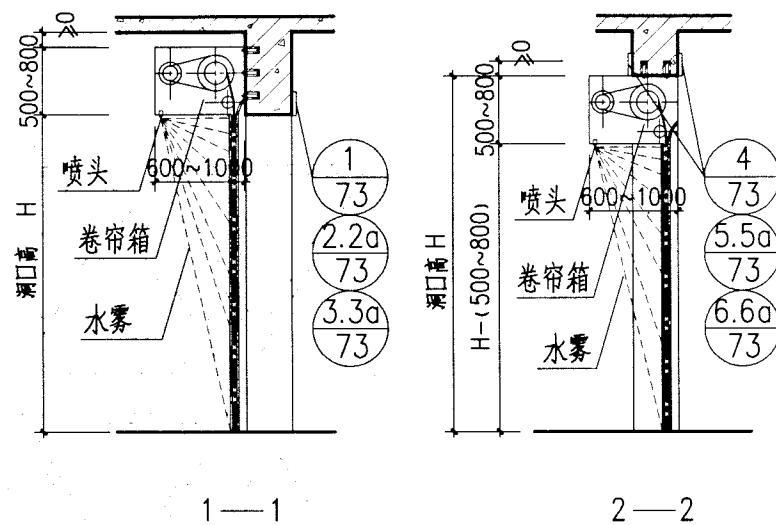
潘苏萍

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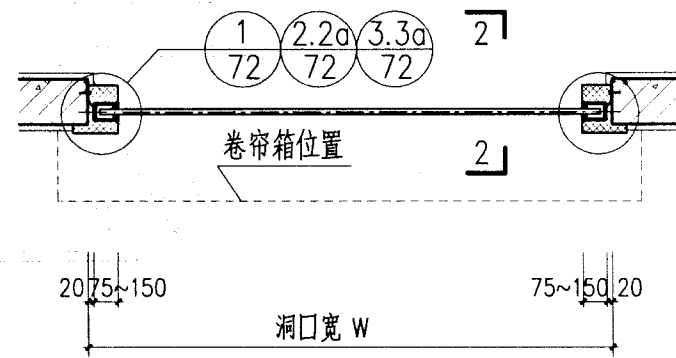
68



2J 水雾式钢特级防火卷帘立面图



2J1 (侧装) 平面图



2J2 (中装) 平面图

注：1. 该防火卷帘的断面用料尺寸，洞口预埋件及安装装饰详见 72~73 页。

2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

2J 水雾式钢特级 防火卷帘平、立、剖面图				图集号	03J609
审核	王祖光	校对	张岳	设计	徐苏萍
				页	69

3J 水雾式无机布基特级防火卷帘选用要点

该防火卷帘帘面由防火布、硅酸铝毡及装饰布等组成，其纵向设有
 中距小于1500mm的钢丝绳以保证其抗拉强度；横向设有中距 300mm
 ~600mm的钢带，其两端折弯并伸入导轨以保证其侧向刚度，保证在

风荷载作用下不会变形脱轨。该卷帘具有挡烟功能，抗锈蚀，耐酸碱，
 抗老化，遇火不易变形，结构简单，重量轻，安装简便，价格较低等
 特点。其适用范围及技术性能指标等均见 2J 型特级防火卷帘。

3J 水雾式无机布基特级防火卷帘选用表

H \ W	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600
2400	3J1-2424	3J1-2724	3J1-3024	3J1-3324	3J1-3624	3J1-3924	3J1-4224	3J1-4524	3J1-4824	3J1-5124	3J1-5424	3J1-5724	3J1-6024	3J1-6324	3J1-6624
	3J2-2424	3J2-2724	3J2-3024	3J2-3324	3J2-3624	3J2-3924	3J2-4224	3J2-4524	3J2-4824	3J2-5124	3J2-5424	3J2-5724	3J2-6024	3J2-6324	3J2-6624
2700	3J1-2427	3J1-2727	3J1-3027	3J1-3327	3J1-3627	3J1-3927	3J1-4227	3J1-4527	3J1-4827	3J1-5127	3J1-5427	3J1-5727	3J1-6027	3J1-6327	3J1-6627
	3J2-2427	3J2-2727	3J2-3027	3J2-3327	3J2-3627	3J2-3927	3J2-4227	3J2-4527	3J2-4827	3J2-5127	3J2-5427	3J2-5727	3J2-6027	3J2-6327	3J2-6627
3000	3J1-2430	3J1-2730	3J1-3030	3J1-3330	3J1-3630	3J1-3930	3J1-4230	3J1-4530	3J1-4830	3J1-5130	3J1-5430	3J1-5730	3J1-6030	3J1-6330	3J1-6630
	3J2-2430	3J2-2730	3J2-3030	3J2-3330	3J2-3630	3J2-3930	3J2-4230	3J2-4530	3J2-4830	3J2-5130	3J2-5430	3J2-5730	3J2-6030	3J2-6330	3J2-6630
3300	3J1-2433	3J1-2733	3J1-3033	3J1-3333	3J1-3633	3J1-3933	3J1-4233	3J1-4533	3J1-4833	3J1-5133	3J1-5433	3J1-5733	3J1-6033	3J1-6333	3J1-6633
	3J2-2433	3J2-2733	3J2-3033	3J2-3333	3J2-3633	3J2-3933	3J2-4233	3J2-4533	3J2-4833	3J2-5133	3J2-5433	3J2-5733	3J2-6033	3J2-6333	3J2-6633
3600					3J1-3636	3J1-3936	3J1-4236	3J1-4536	3J1-4836	3J1-5136	3J1-5436	3J1-5736	3J1-6036	3J1-6336	3J1-6636
					3J2-3636	3J2-3936	3J2-4236	3J2-4536	3J2-4836	3J2-5136	3J2-5436	3J2-5736	3J2-6036	3J2-6336	3J2-6636
3900								3J1-4539	3J1-4839	3J1-5139	3J1-5439	3J1-5739	3J1-6039	3J1-6339	3J1-6639
								3J2-4539	3J2-4839	3J2-5139	3J2-5439	3J2-5739	3J2-6039	3J2-6339	3J2-6639
4200										3J1-5142	3J1-5442	3J1-5742	3J1-6042	3J1-6342	3J1-6642
										3J2-5142	3J2-5442	3J2-5742	3J2-6042	3J2-6342	3J2-6642
4500												3J1-5745	3J1-6045	3J1-6345	3J1-6645
												3J2-5745	3J2-6045	3J2-6345	3J2-6645
4800													3J1-6048	3J1-6348	3J1-6648
													3J2-6048	3J2-6348	3J2-6648
5100													3J1-6051	3J1-6351	3J1-6651
													3J2-6051	3J2-6351	3J2-6651
5400														3J1-6354	3J1-6654
														3J2-6354	3J2-6654
5700														3J1-6357	3J1-6657
														3J2-6357	3J2-6657
6000															3J1-6660
															3J2-6660

注：1. 防火卷帘的断面用料尺寸、洞口预埋件及安装装饰详见 72~73 页。

2. 3J1 为墙侧装，3J2 为墙中装。

3. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

3J 水雾式无机布基
 特级防火卷帘选用要点及选用表

图集号

03J609

审核

王沁光

校对

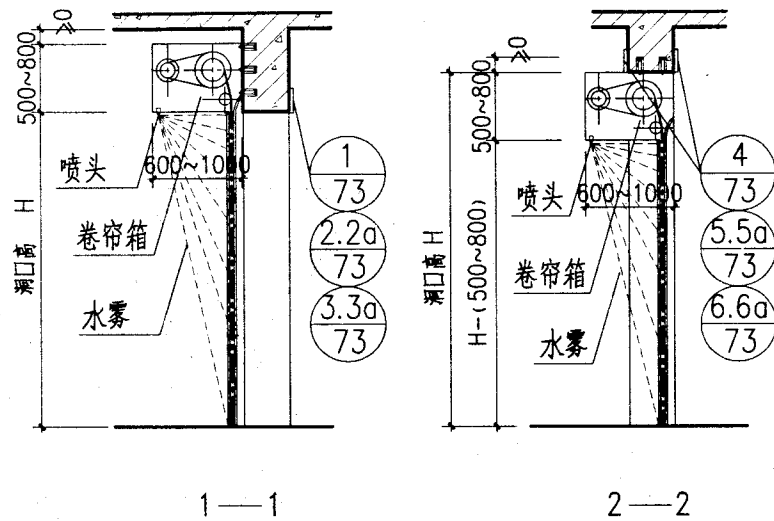
张兵

设计

张淑萍

页

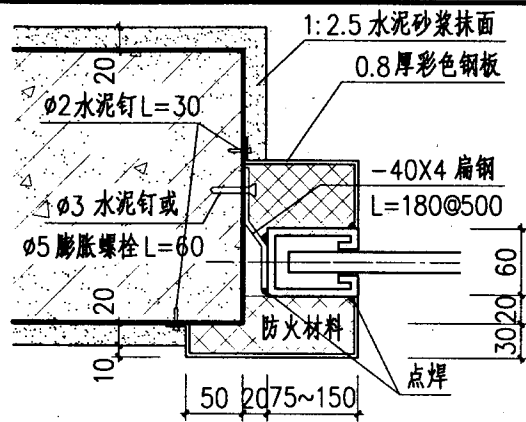
70

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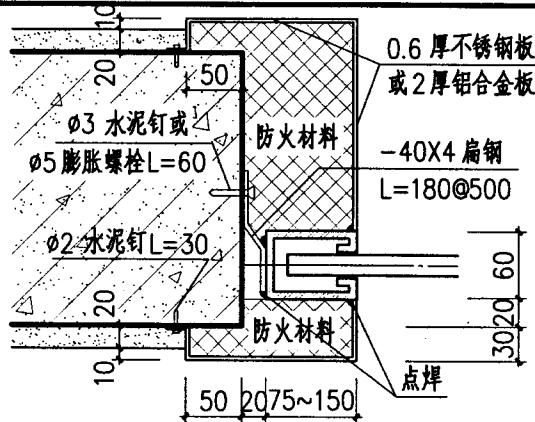
注: 1. 该防火卷帘的断面用料尺寸、洞口预埋件及安装装饰详见 72~73 页。

2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

3J水雾式无机布基 特级防火卷帘平、立、剖面图				图集号	03J609
审核	王昶光	校对	张岳	设计	张磊 苏萍
				页	71

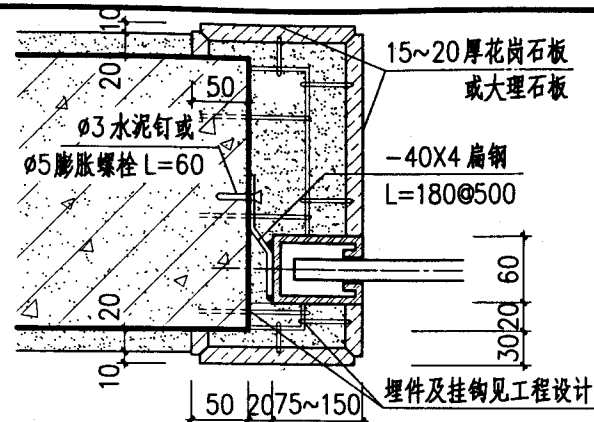


① 水泥砂浆装修



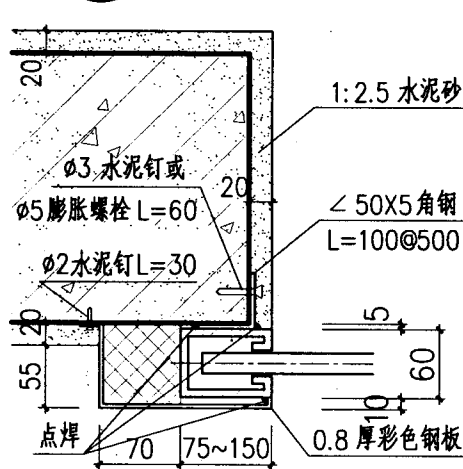
② 不锈钢板装修

2a 铝合金板装修

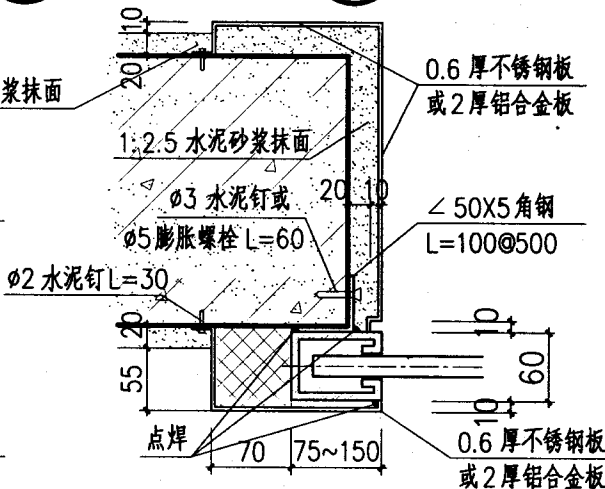


③ 花岗石板装修

3a 大理石板装修

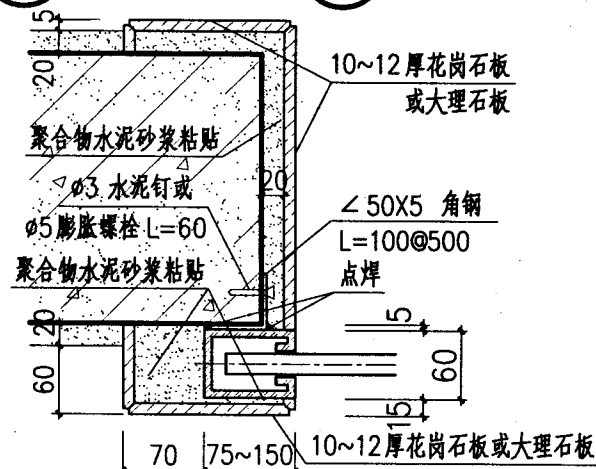


④ 水泥砂浆装修



⑤ 不锈钢板装修

5a 铝合金板装修



⑥ 花岗石板装修

6a 大理石板装修

注：本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

1J、2J、3J 单导轨安装装饰节点（一）				图集号	03J609
审核	王和光	校对	王岳	设计	潘苏萍
				页	72

4J 双轨无机布基特级防火卷帘选用要点

双轨无机布基特级防火卷帘系由两道防火卷帘组成,其中间隔为200mm~500mm,该空气层增强了卷帘的防火隔热性能。该卷帘不需要水幕保护,也不需要水雾保护,即可达到特级卷帘的全部防火技术要

求。因此完全可省去消防用水。

双轨无机布基特级防火卷帘帘面构造同3J型特级防火卷帘,适用范围及技术性能指标等均见2J型特级防火卷帘。

4J 双轨无机布基特级防火卷帘选用表

H \ W	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600
2400	4J1-2424 4J2-2424	4J1-2724 4J2-2724	4J1-3024 4J2-3024	4J1-3324 4J2-3324	4J1-3624 4J2-3624	4J1-3924 4J2-3924	4J1-4224 4J2-4224	4J1-4524 4J2-4524	4J1-4824 4J2-4824	4J1-5124 4J2-5124	4J1-5424 4J2-5424	4J1-5724 4J2-5724	4J1-6024 4J2-6024	4J1-6324 4J2-6324	4J1-6624 4J2-6624
2700	4J1-2427 4J2-2427	4J1-2727 4J2-2727	4J1-3027 4J2-3027	4J1-3327 4J2-3327	4J1-3627 4J2-3627	4J1-3927 4J2-3927	4J1-4227 4J2-4227	4J1-4527 4J2-4527	4J1-4827 4J2-4827	4J1-5127 4J2-5127	4J1-5427 4J2-5427	4J1-5727 4J2-5727	4J1-6027 4J2-6027	4J1-6327 4J2-6327	4J1-6627 4J2-6627
3000	4J1-2430 4J2-2430	4J1-2730 4J2-2730	4J1-3030 4J2-3030	4J1-3330 4J2-3330	4J1-3630 4J2-3630	4J1-3930 4J2-3930	4J1-4230 4J2-4230	4J1-4530 4J2-4530	4J1-4830 4J2-4830	4J1-5130 4J2-5130	4J1-5430 4J2-5430	4J1-5730 4J2-5730	4J1-6030 4J2-6030	4J1-6330 4J2-6330	4J1-6630 4J2-6630
3300	4J1-2433 4J2-2433	4J1-2733 4J2-2733	4J1-3033 4J2-3033	4J1-3333 4J2-3333	4J1-3633 4J2-3633	4J1-3933 4J2-3933	4J1-4233 4J2-4233	4J1-4533 4J2-4533	4J1-4833 4J2-4833	4J1-5133 4J2-5133	4J1-5433 4J2-5433	4J1-5733 4J2-5733	4J1-6033 4J2-6033	4J1-6333 4J2-6333	4J1-6633 4J2-6633
3600					4J1-3636 4J2-3636	4J1-3936 4J2-3936	4J1-4236 4J2-4236	4J1-4536 4J2-4536	4J1-4836 4J2-4836	4J1-5136 4J2-5136	4J1-5436 4J2-5436	4J1-5736 4J2-5736	4J1-6036 4J2-6036	4J1-6336 4J2-6336	4J1-6636 4J2-6636
3900								4J1-4539 4J2-4539	4J1-4839 4J2-4839	4J1-5139 4J2-5139	4J1-5439 4J2-5439	4J1-5739 4J2-5739	4J1-6039 4J2-6039	4J1-6339 4J2-6339	4J1-6639 4J2-6639
4200										4J1-5142 4J2-5142	4J1-5442 4J2-5442	4J1-5742 4J2-5742	4J1-6042 4J2-6042	4J1-6342 4J2-6342	4J1-6642 4J2-6642
4500												4J1-5745 4J2-5745	4J1-6045 4J2-6045	4J1-6345 4J2-6345	4J1-6645 4J2-6645
4800													4J1-6048 4J2-6048	4J1-6348 4J2-6348	4J1-6648 4J2-6648
5100													4J1-6051 4J2-6051	4J1-6351 4J2-6351	4J1-6651 4J2-6651
5400														4J1-6354 4J2-6354	4J1-6654 4J2-6654
5700														4J1-6357 4J2-6357	4J1-6657 4J2-6657
6000															4J1-6660 4J2-6660

注:1.防火卷帘的断面用料尺寸,洞口预埋件及安装装饰详见76~77页。

2.4J1为墙侧装,4J2为墙中装。

3.本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

4J 双轨无机布基
特级防火卷帘选用要点及选用表

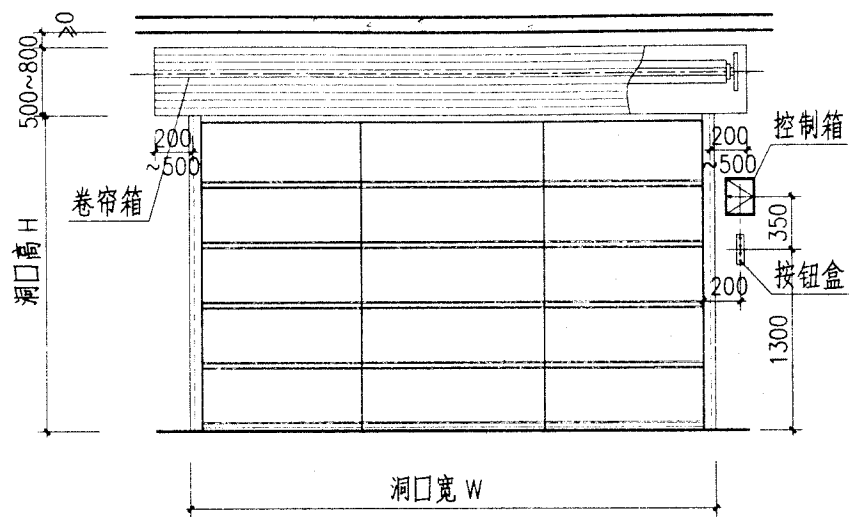
图集号

03J609

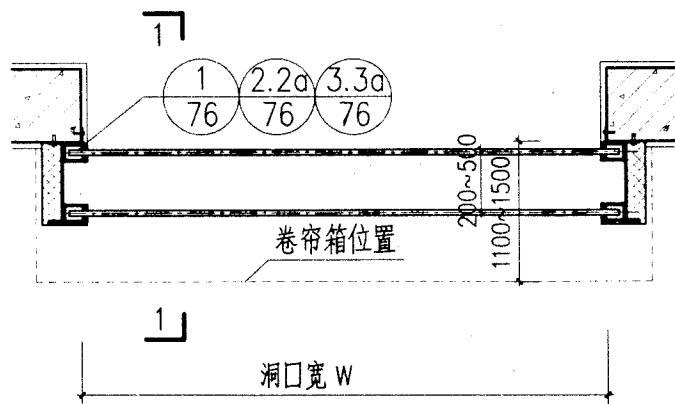
审核 王沁光 校对 王沁光 设计 潘苏萍

页

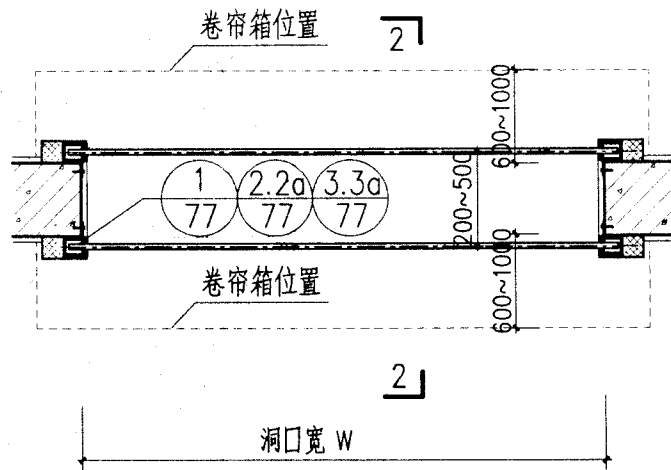
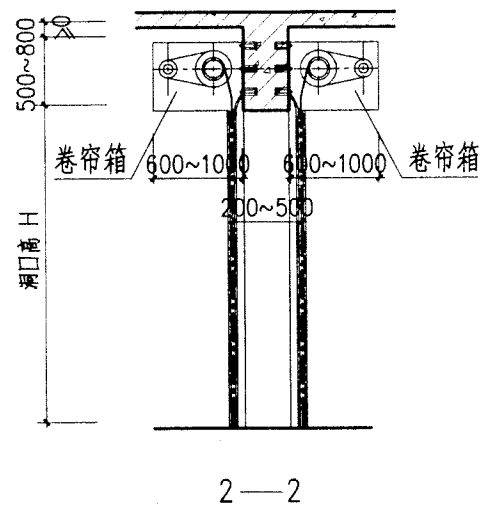
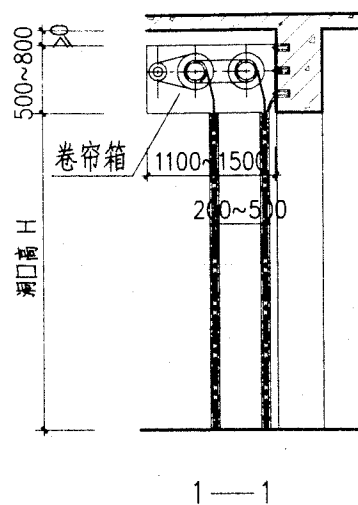
74



4J 双轨无机布基特级防火卷帘立面图



4J1 (侧装) 平面图

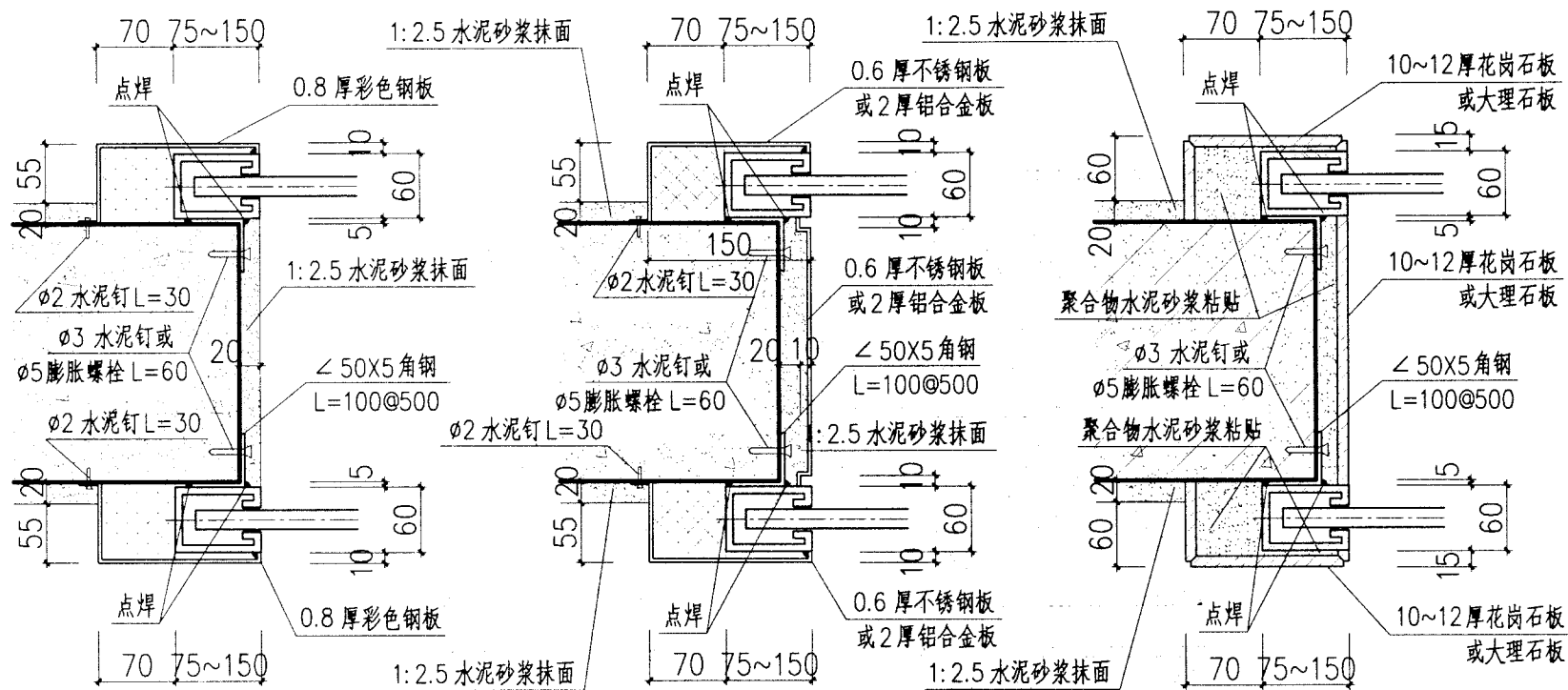


4J2 (中装) 平面图

注: 1. 该防火卷帘的断面用料尺寸, 洞口预埋件及安装装饰详见 76~77 页。

2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

4J 双轨无机布基 特级防火卷帘详图				图集号	03J609
审核	王祖光	校对	王祖光	设计	徐嘉萍
				页	75



① 水泥砂浆装修 ② 不锈钢板装修 2a 铝合金板装修 ③ 花岗石板装修 3a 大理石板装修

注：本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

4J 双导轨安装装饰节点 (二)				图集号	03J609
审核	王祖光	校对	彭岳	设计	潘苏萍
				页	77

5J 带平开小门钢防火卷帘选用要点

该防火卷帘用于需设疏散门的部位, 在接收火警信号后卷帘关闭, 实现防火隔断。行人可通过平开小门疏散, 由于闭门器的作用平开小门

处于常闭状态, 平开门型号及卷帘型号须在本图集集中另选并在设计图中注明。其洞口最大宽度为9000mm, 高度为6000mm。

5J 带平开小门钢防火卷帘选用表

H \ W	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600
2400	5J-2424	5J-2724	5J-3024	5J-3324	5J-3624	5J-3924	5J-4224	5J-4524	5J-4824	5J-5124	5J-5424	5J-5724	5J-6024	5J-6324	5J-6624
2700	5J-2427	5J-2727	5J-3027	5J-3327	5J-3627	5J-3927	5J-4227	5J-4527	5J-4827	5J-5127	5J-5427	5J-5727	5J-6027	5J-6327	5J-6627
3000	5J-2430	5J-2730	5J-3030	5J-3330	5J-3630	5J-3930	5J-4230	5J-4530	5J-4830	5J-5130	5J-5430	5J-5730	5J-6030	5J-6330	5J-6630
3300	5J-2433	5J-2733	5J-3033	5J-3333	5J-3633	5J-3933	5J-4233	5J-4533	5J-4833	5J-5133	5J-5433	5J-5733	5J-6033	5J-6333	5J-6633
3600					5J-3636	5J-3936	5J-4236	5J-4536	5J-4836	5J-5136	5J-5436	5J-5736	5J-6036	5J-6336	5J-6636
3900								5J-4539	5J-4839	5J-5139	5J-5439	5J-5739	5J-6039	5J-6339	5J-6639
4200										5J-5142	5J-5442	5J-5742	5J-6042	5J-6342	5J-6642
4500												5J-5745	5J-6045	5J-6345	5J-6645
4800													5J-6048	5J-6348	5J-6648
5100													5J-6051	5J-6351	5J-6651
5400														5J-6354	5J-6654
5700														5J-6357	5J-6657
6000															5J-6660

注: 1. 防火卷帘的断面用料尺寸, 洞口预埋件及安装装饰详见 80~82 页。

2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

5J 带平开小门
钢防火卷帘选用要点及选用表

图集号

03J609

审核

王祖光

校对

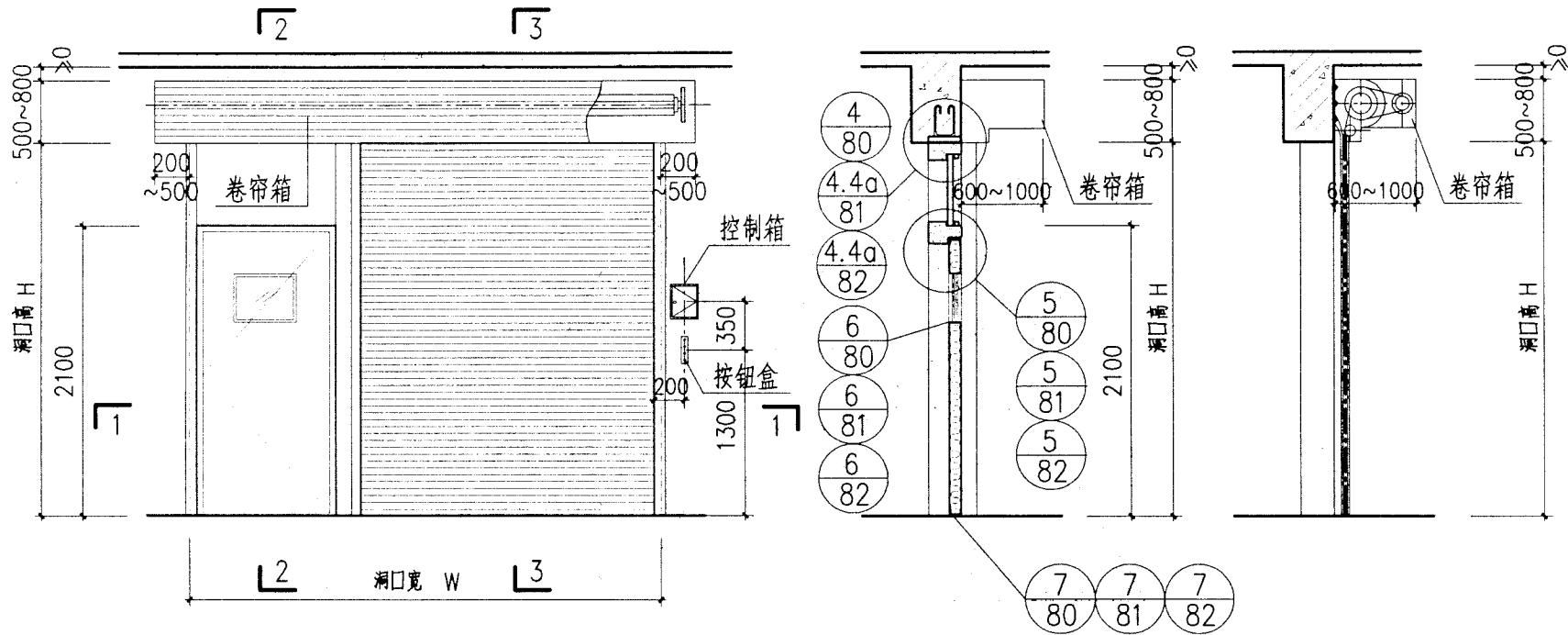
王祖光

设计

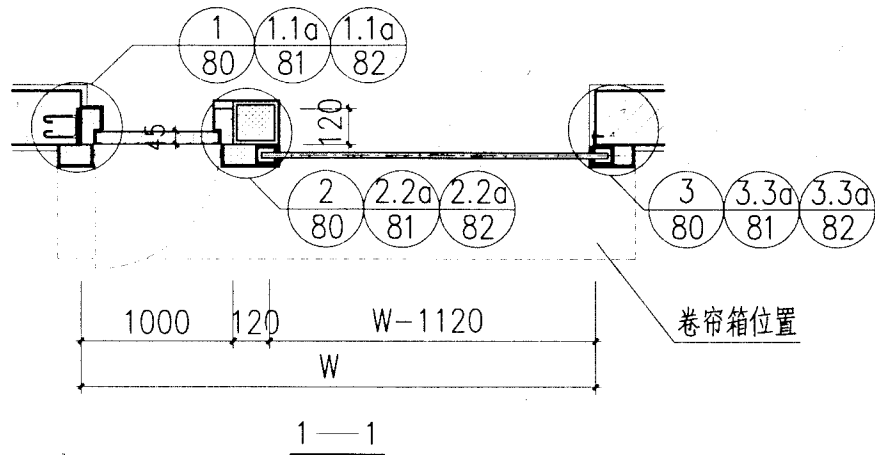
王祖光

页

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5J带平开小门钢防火卷帘立面图



注:

1. 防火卷帘的断面用料尺寸, 洞口预埋件及安装装饰详见80~82页。
2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

5J带平开小门钢防火卷帘详图

图集号

03J609

审核

王祖光

校对

张岳

设计

徐苏萍

页

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6J 侧向钢防火卷帘选用要点

侧向钢卷帘系根据《钢质防火卷帘通用技术条件》GB14102-93 及相关企业标准设计制作,其特点是将卷帘箱竖立放置在楼地面上,帘板悬挂在上方导轨内,靠滚轮沿导轨运动实现卷帘启闭,导轨可为直线或曲线,地面无导轨。

1 适用范围:

适用于大跨度洞口及曲线形低空间场合的防火隔断,如中庭、地下停车场等场所。

2 技术性能指标:

2.1 卷帘平均运行速度 (mm/min) : 2000~12000

2.2 耐火极限 (h) : ≥ 3.0

2.3 最大洞口宽度 (mm) : ≤ 40000

2.4 最大洞口高度 (mm) : ≤ 6000

2.5 最小弯曲半径 (mm) : ≥ 800

2.6 卷帘启闭运行平均噪声 (dB) : 75

2.7 耐风压强度 (Pa) : ≥ 784.5

2.8 导轨高度 (mm) : 150

2.8 帘板距地面缝宽 (mm) : 20

3 主要技术参数见表 3。

4 选用要点

4.1 在平面图上确定侧向卷帘轨道的平面形状及几何尺寸,计算出洞口宽度,据此选择卷帘箱规格尺寸。为缩短启闭时间,洞口宽度宜小于或等于 24000mm。

4.2 当洞口宽度超过 24000mm 时,应优先选用两樘对开的卷帘。

4.3 曲线卷帘其最小弯曲半径应 $\geq 800\text{mm}$ 。

4.4 卷帘门有效通行高度=卷帘箱高度-(200~400mm)。

4.5 卷帘箱宜用砌体或其它装饰材料饰面,因此在卷帘箱周围应留有不小于 50mm 的空间。并在卷帘箱体的饰面层上设置宽×高为 600×1200mm 的检修门。

4.6 当洞口宽大于 20000mm 时,每隔 10000mm 加一台辅助卷机。辅助卷机与拨轴同步运行,将卷帘拨出。

4.7 设计选用中应注明耐火等级,如卷帘用于外墙,应注明卷帘抗风压值。

5 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

表 3 主要技术参数

洞口宽度(W) (mm)	洞口高度(H) (mm)	卷帘箱长度 (A)(mm)	卷帘箱宽度 (B)(mm)	卷帘箱总重量 (Kg)	电机功率 (w)
8000	3000~6000	1100	900	1300~2600	550
16000	3000~6000	1300	1100	2000~4000	750
24000	3000~6000	1500	1200	3000~6000	750X2
32000	3000~6000	1700	1400	4000~8000	750X2
40000	3000~6000	2000	1600	4500~9000	750X2

6J 侧向钢防火卷帘选用要点

图集号

03J609

审核

王祖光

校对

王祖光

设计

王祖光

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6J 侧向钢防火卷帘选用表

6J1 侧向钢防火卷帘选用表

H \ W	6000	9000	12000	15000	18000	21000	24000	27000	30000	33000	36000	39000
2400	6J1-6024	6J1-9024	6J1-12024	6J1-15024	6J1-18024	6J1-21024	6J1-24024	6J1-27024	6J1-30024	6J1-33024	6J1-36024	6J1-39024
2700	6J1-6027	6J1-9027	6J1-12027	6J1-15027	6J1-18027	6J1-21027	6J1-24027	6J1-27027	6J1-30027	6J1-33027	6J1-36027	6J1-39027
3000	6J1-6030	6J1-9030	6J1-12030	6J1-15030	6J1-18030	6J1-21030	6J1-24030	6J1-27030	6J1-30030	6J1-33030	6J1-36030	6J1-39030
3300	6J1-6033	6J1-9033	6J1-12033	6J1-15033	6J1-18033	6J1-21033	6J1-24033	6J1-27033	6J1-30033	6J1-33033	6J1-36033	6J1-39033
3600	6J1-6036	6J1-9036	6J1-12036	6J1-15036	6J1-18036	6J1-21036	6J1-24036	6J1-27036	6J1-30036	6J1-33036	6J1-36036	6J1-39036
3900	6J1-6039	6J1-9039	6J1-12039	6J1-15039	6J1-18039	6J1-21039	6J1-24039	6J1-27039	6J1-30039	6J1-33039	6J1-36039	6J1-39039
4200	6J1-6042	6J1-9042	6J1-12042	6J1-15042	6J1-18042	6J1-21042	6J1-24042	6J1-27042	6J1-30042	6J1-33042	6J1-36042	6J1-39042
4500	6J1-6045	6J1-9045	6J1-12045	6J1-15045	6J1-18045	6J1-21045	6J1-24045	6J1-27045	6J1-30045	6J1-33045	6J1-36045	6J1-39045
4800	6J1-6048	6J1-9048	6J1-12048	6J1-15048	6J1-18048	6J1-21048	6J1-24048	6J1-27048	6J1-30048	6J1-33048	6J1-36048	6J1-39048

6J2 侧向钢防火卷帘选用表

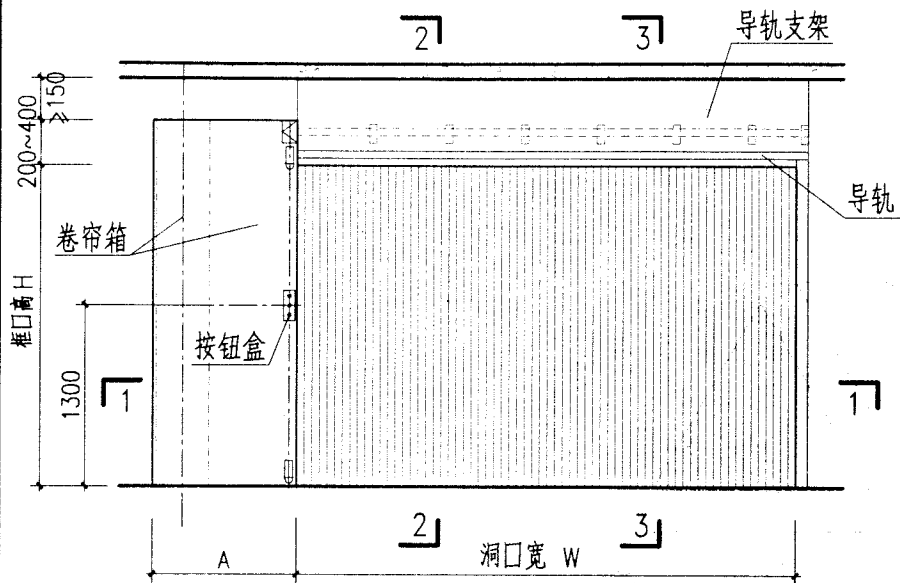
H \ W	8000	10000	14000	16000	20000	22000	26000	28000	32000	34000	38000	40000
2400	6J2-8024	6J2-10024	6J2-14024	6J2-16024	6J2-20024	6J2-22024	6J2-26024	6J2-28024	6J2-32024	6J2-34024	6J2-38024	6J2-40024
2700	6J2-8027	6J2-10027	6J2-14027	6J2-16027	6J2-20027	6J2-22027	6J2-26027	6J2-28027	6J2-32027	6J2-34027	6J2-38027	6J2-40027
3000	6J2-8030	6J2-10030	6J2-14030	6J2-16030	6J2-20030	6J2-22030	6J2-26030	6J2-28030	6J2-32030	6J2-34030	6J2-38030	6J2-40030
3300	6J2-8033	6J2-10033	6J2-14033	6J2-16033	6J2-20033	6J2-22033	6J2-26033	6J2-28033	6J2-32033	6J2-34033	6J2-38033	6J2-40033
3600	6J2-8036	6J2-10036	6J2-14036	6J2-16036	6J2-20036	6J2-22036	6J2-26036	6J2-28036	6J2-32036	6J2-34036	6J2-38036	6J2-40036
3900	6J2-8039	6J2-10039	6J2-14039	6J2-16039	6J2-20039	6J2-22039	6J2-26039	6J2-28039	6J2-32039	6J2-34039	6J2-38039	6J2-40039
4200	6J2-8042	6J2-10042	6J2-14042	6J2-16042	6J2-20042	6J2-22042	6J2-26042	6J2-28042	6J2-32042	6J2-34042	6J2-38042	6J2-40042
4500	6J2-8045	6J2-10045	6J2-14045	6J2-16045	6J2-20045	6J2-22045	6J2-26045	6J2-28045	6J2-32045	6J2-34045	6J2-38045	6J2-40045
4800	6J2-8048	6J2-10048	6J2-14048	6J2-16048	6J2-20048	6J2-22048	6J2-26048	6J2-28048	6J2-32048	6J2-34048	6J2-38048	6J2-40048

注：1. 防火卷帘的断面用料尺寸、洞口预埋件及安装装饰详见 85~86 页。

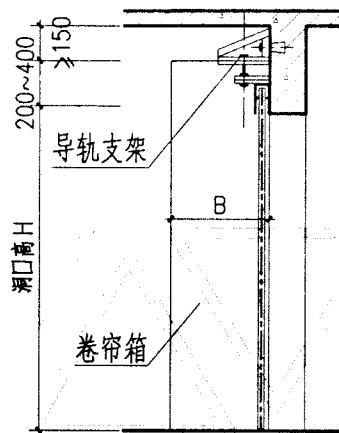
2. 6J1 为带洞口的侧向钢防火卷帘，6J2 为不带洞口的钢防火卷帘。

3. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

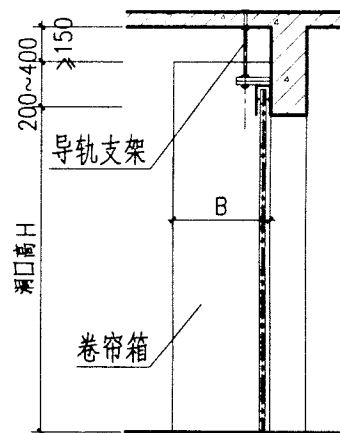
6J 侧向钢防火卷帘选用表								图集号	03J609
审核	王旭光	校对	王旭光	设计	张淑萍	页	84		



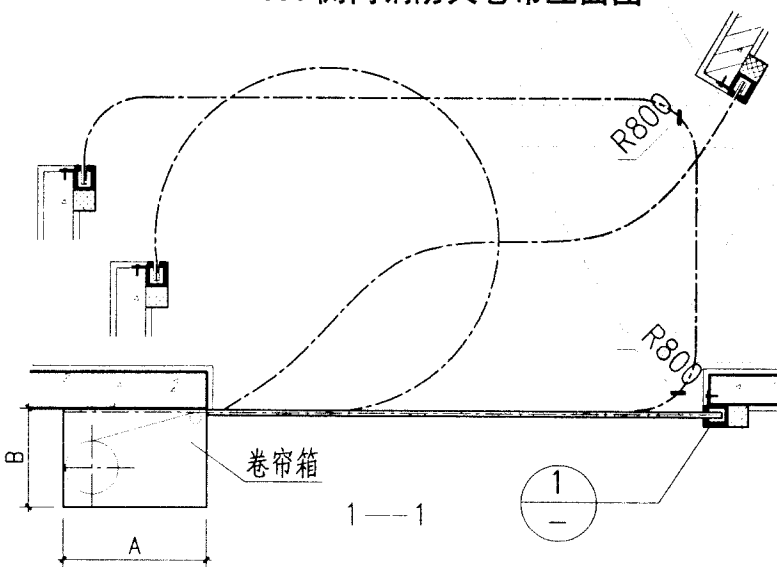
6J1 侧向钢防火卷帘立面图



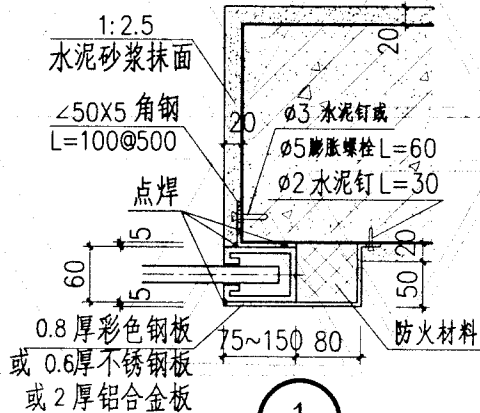
2—2



3—3



1—1



注:

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6J1 侧向钢防火卷帘详图

图集号

03J609

审核

王祖光

校对

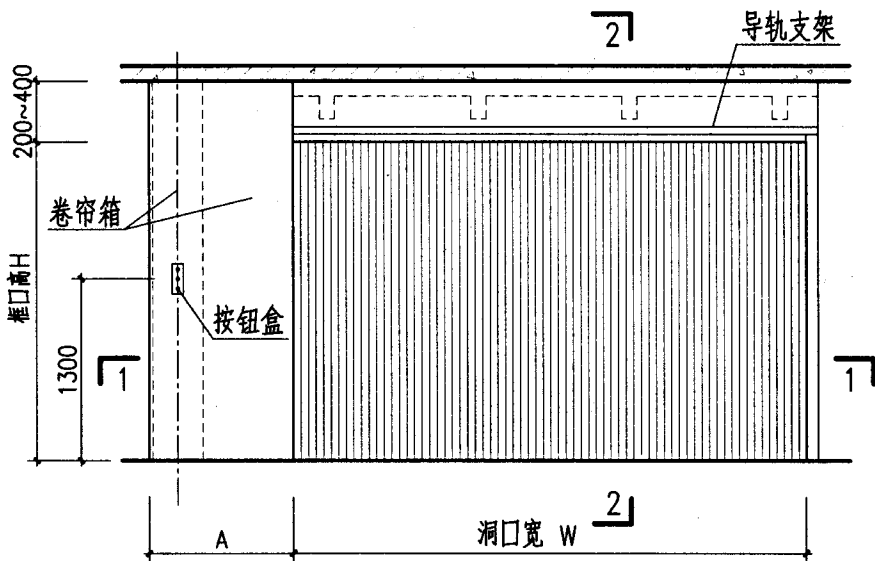
张岳

设计

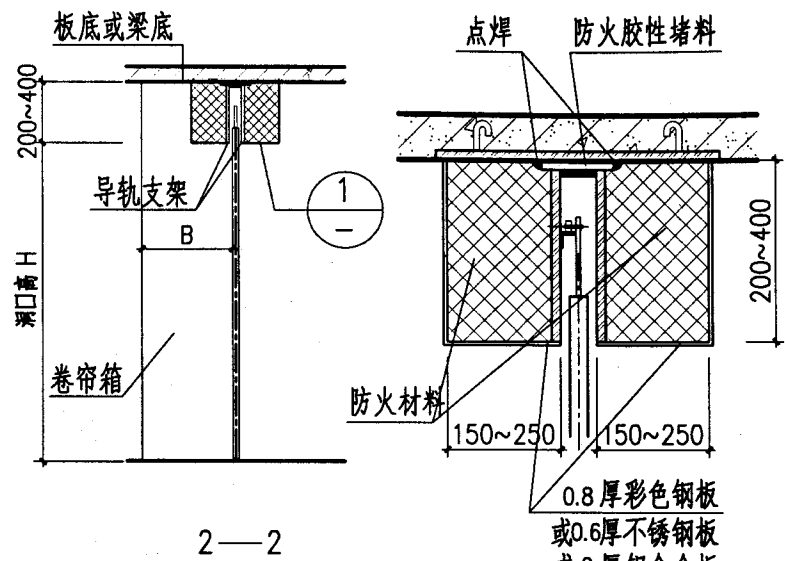
张磊

页

85

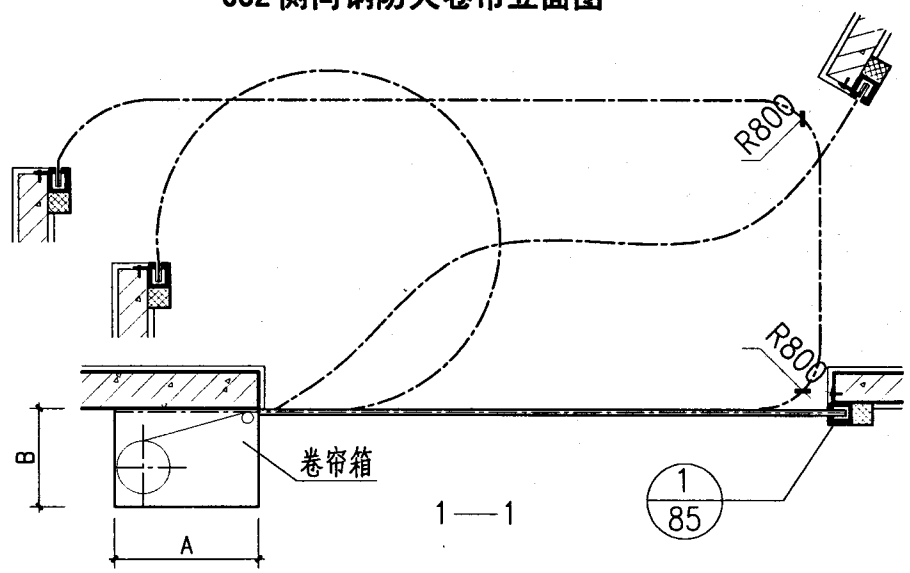


6J2 侧向钢防火卷帘立面图



2—2

1



1—1

1
85

注:

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6J2 侧向钢防火卷帘详图				图索号	03J609
审核	王祖光	校对	张兵	设计	张苏萍
				页	86

7J 水平钢防火卷帘选用要点

该防火卷帘主要作为自动扶梯口或其它水平洞口的防火隔断,可减少
隔断面积,节省工程造价。

1 技术性能指标

- 1.1 最大洞口宽度(mm) : ≤ 5000
- 1.2 最大洞口长度(mm) : ≤ 16000
- 1.3 最小弯曲半径(mm) : $R \geq 600$
- 1.4 耐火极限(h) : > 3.0

1.5 启闭速度(mm/min) : 2000~9000

1.6 运行(启闭)噪声(dB) : 75

1.7 电源: 三相 380V, 50Hz

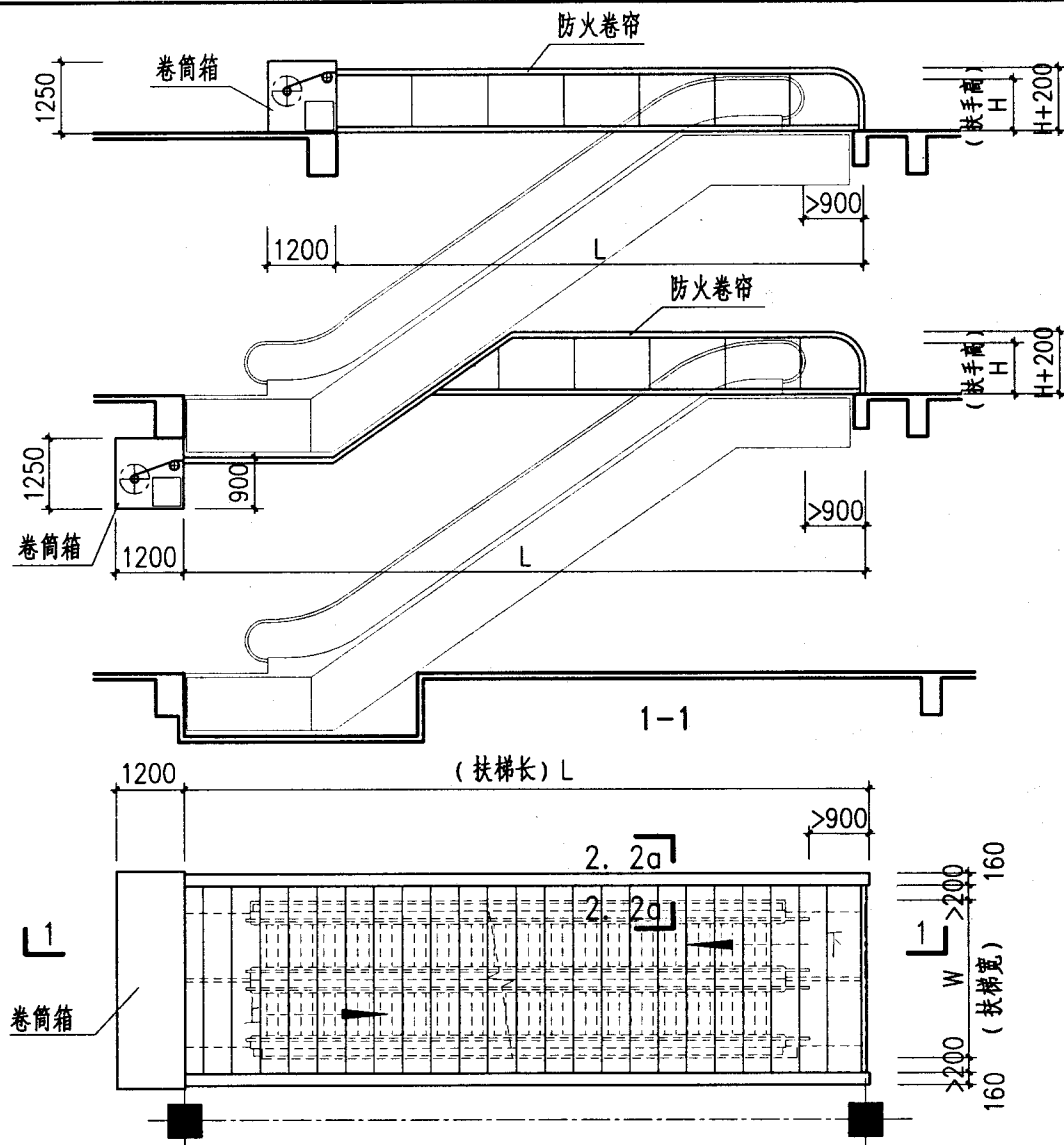
1.8 卷帘箱有不小于500mm x 500mm 的维修孔

2 本资料由上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供。

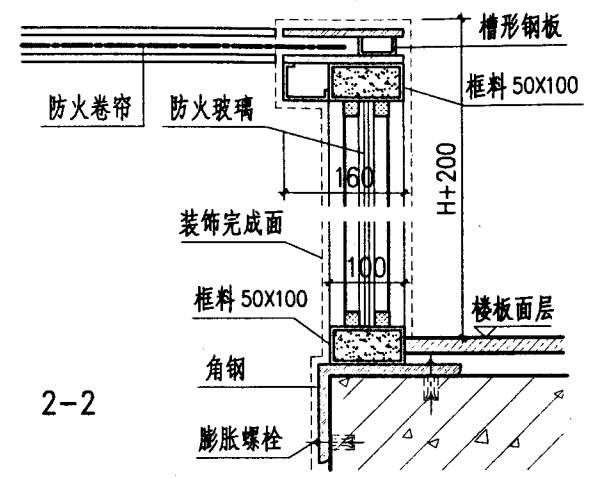
7J 水平钢防火卷帘选用表

W \ L	3900	4200	4500	4800	5100	5400	5700	6000	8000	10000	12000	14000	16000
1500	7J-3915	7J-4215	7J-4515	7J-4815	7J-5115	7J-5415	7J-5715	7J-6015	7J-8015	7J-10015	7J-12015	7J-14015	7J-16015
1800	7J-3918	7J-4218	7J-4518	7J-4818	7J-5118	7J-5418	7J-5718	7J-6018	7J-8018	7J-10018	7J-12018	7J-14018	7J-16018
2100	7J-3921	7J-4221	7J-4521	7J-4821	7J-5121	7J-5421	7J-5721	7J-6021	7J-8021	7J-10021	7J-12021	7J-14021	7J-16021
2400	7J-3924	7J-4224	7J-4524	7J-4824	7J-5124	7J-5424	7J-5724	7J-6024	7J-8024	7J-10024	7J-12024	7J-14024	7J-16024
2700	7J-3927	7J-4227	7J-4527	7J-4827	7J-5127	7J-5427	7J-5727	7J-6027	7J-8027	7J-10027	7J-12027	7J-14027	7J-16027
3000	7J-3930	7J-4230	7J-4530	7J-4830	7J-5130	7J-5430	7J-5730	7J-6030	7J-8030	7J-10030	7J-12030	7J-14030	7J-16030
3300	7J-3933	7J-4233	7J-4533	7J-4833	7J-5133	7J-5433	7J-5733	7J-6033	7J-8033	7J-10033	7J-12033	7J-14033	7J-16033
3600	7J-3936	7J-4236	7J-4536	7J-4836	7J-5136	7J-5436	7J-5736	7J-6036	7J-8036	7J-10036	7J-12036	7J-14036	7J-16036
3900	7J-3939	7J-4239	7J-4539	7J-4839	7J-5139	7J-5439	7J-5739	7J-6039	7J-8039	7J-10039	7J-12039	7J-14039	7J-16039
4200	7J-3942	7J-4242	7J-4542	7J-4842	7J-5142	7J-5442	7J-5742	7J-6042	7J-8042	7J-10042	7J-12042	7J-14042	7J-16042
4500	7J-3945	7J-4245	7J-4545	7J-4845	7J-5145	7J-5445	7J-5745	7J-6045	7J-8045	7J-10045	7J-12045	7J-14045	7J-16045
4800	7J-3948	7J-4248	7J-4548	7J-4848	7J-5148	7J-5448	7J-5748	7J-6048	7J-8048	7J-10048	7J-12048	7J-14048	7J-16048
5000	7J-3950	7J-4250	7J-4550	7J-4850	7J-5150	7J-5450	7J-5750	7J-6050	7J-8050	7J-10050	7J-12050	7J-14050	7J-16050

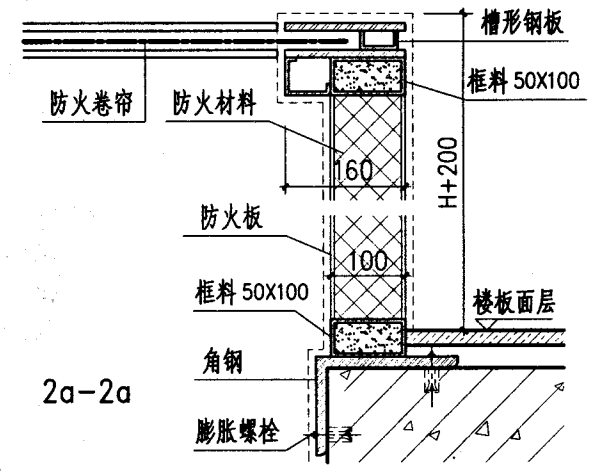
注: 1. 防火卷帘的断面用料尺寸, 洞口预埋件及安装装饰详见 88 页。
2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。



7J 水平钢防火卷帘平面图



2-2

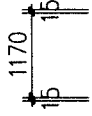
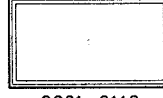
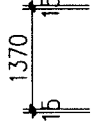
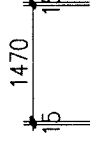
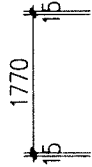
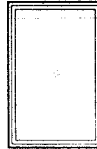
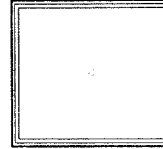


2a-2a

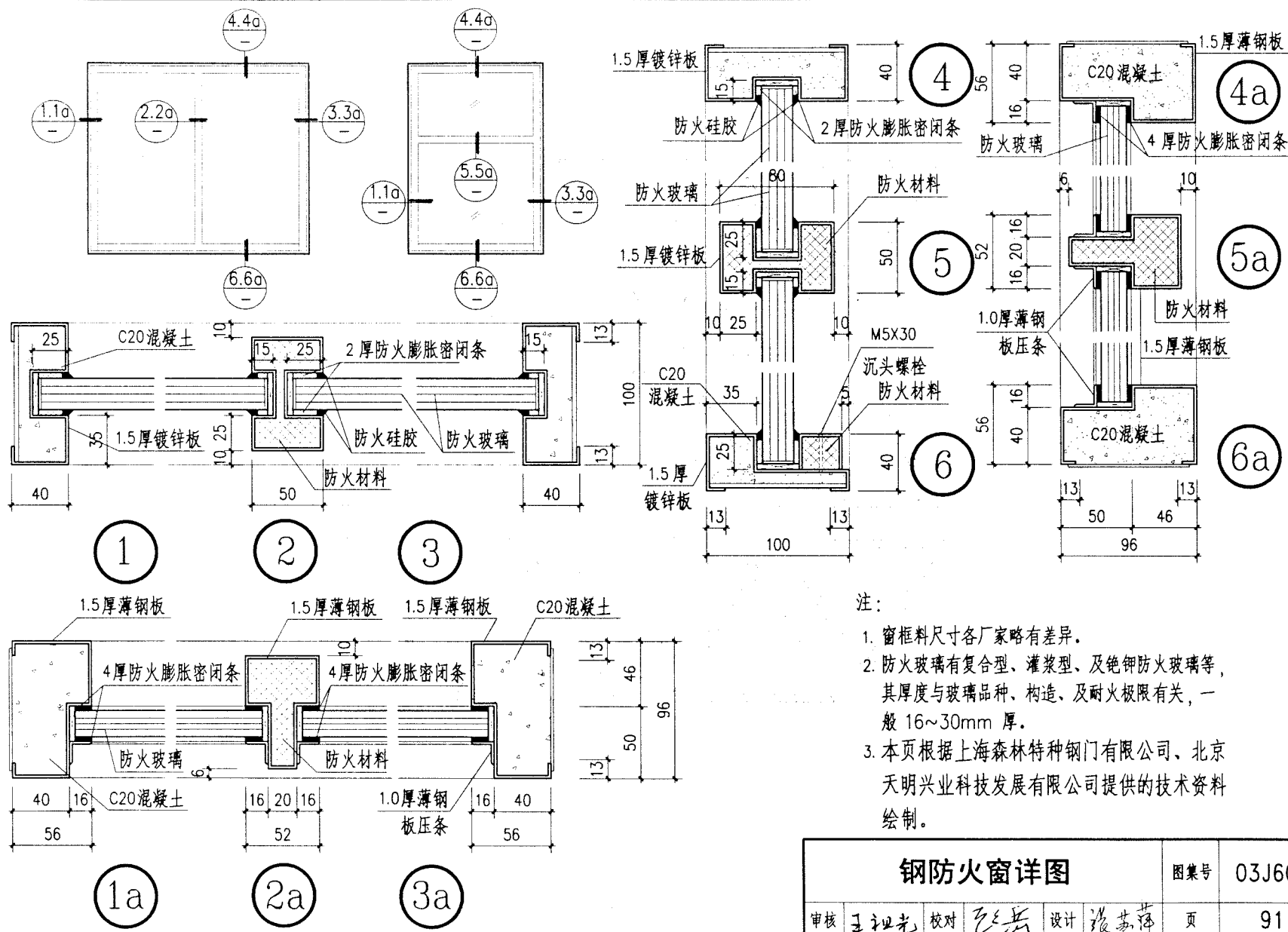
注:

本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

7J 水平钢防火卷帘详图				图集号	03J609
审核	王初光	校对	张岳	设计	张岳
				页	88

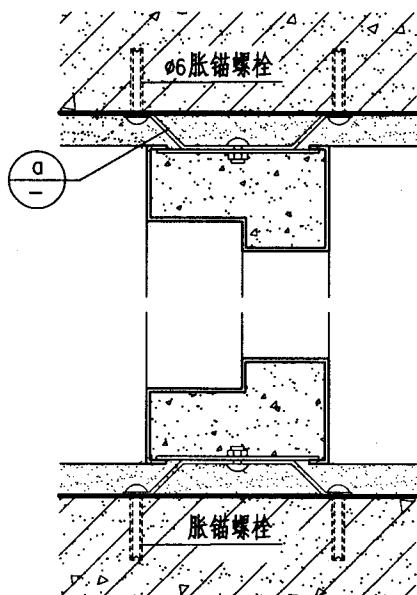
洞口尺寸			600	900	1200	1500	1800	2100
框口尺寸			570	870	1170	1470	1770	2070
			15 570 15	15 870 15	15 1170 15	15 1470 15	15 1770 15	15 2070 15
600	570		 GC01-0606	 GC01-0906	 GC01-1206	 GC01-1506	 GC01-1806	 GC01-2106
900	870		 GC01-0609	 GC01-0909	 GC01-1209	 GC01-1509	 GC01-1809	 GC01-2109
1200	1170		 GC01-0612	 GC01-0912	 GC01-1212	 GC01-1512	 GC01-1812	 GC01-2112
1400	1370		 GC01-0614	 GC01-0914	 GC01-1214	 GC01-1514	 GC01-1814	 GC01-2114
1500	1470		 GC01-0614	 GC01-0915	 GC01-1215	 GC01-1515	 GC01-1815	 GC01-2115
1800	1770		 GC01-0614	 GC01-0918	 GC01-1218	 GC01-1518	 GC01-1818	 GC01-2118

洞口尺寸			600	900	1200	1500	1800	2100
框口尺寸			570	870	1170	1470	1770	2070
			15, 570, 15	15, 870, 15	15, 1170, 15	15, 1470, 15	15, 1770, 15	15, 2070, 15
600	570				 GC02-1206	 GC02-1506	 GC02-1806	 GC02-2106
900	870				 GC02-1209	 GC02-1509	 GC02-1809	 GC02-2109
1200	1170				 GC02-1212	 GC02-1512	 GC02-1812	 GC02-2112
1400	1370		 GC02-0614	 GC02-0914	 GC02-1214	 GC02-1514	 GC02-1814	 GC02-2114
1500	1470		 GC02-0614	 GC02-0915	 GC02-1215	 GC02-1515	 GC02-1815	 GC02-2115
1800	1770		 GC02-0614	 GC02-0918	 GC02-1218	 GC02-1518	 GC02-1818	 GC02-2118

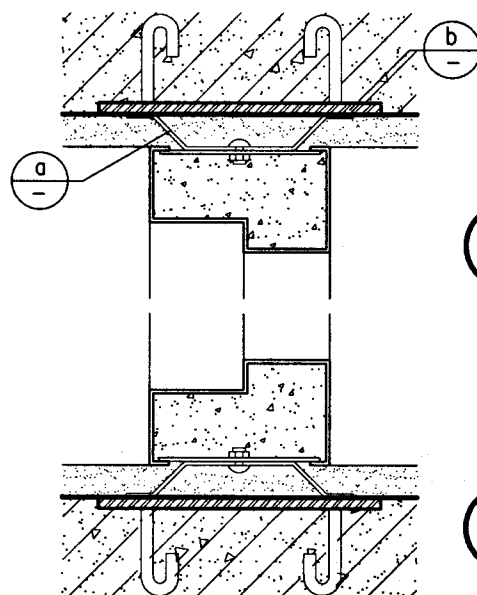


钢防火窗详图

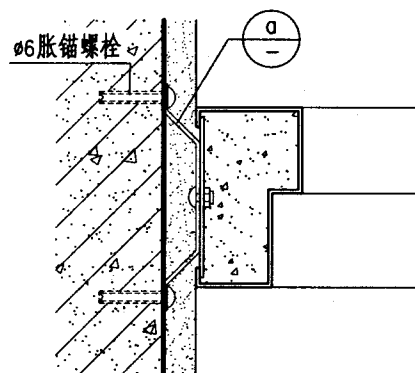
图集号 03J609



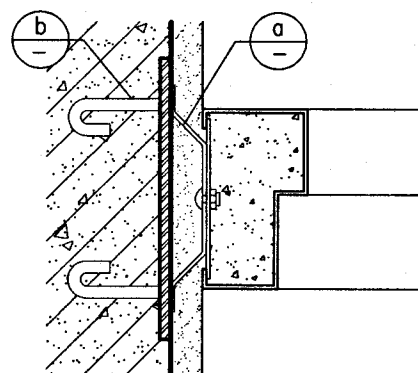
1



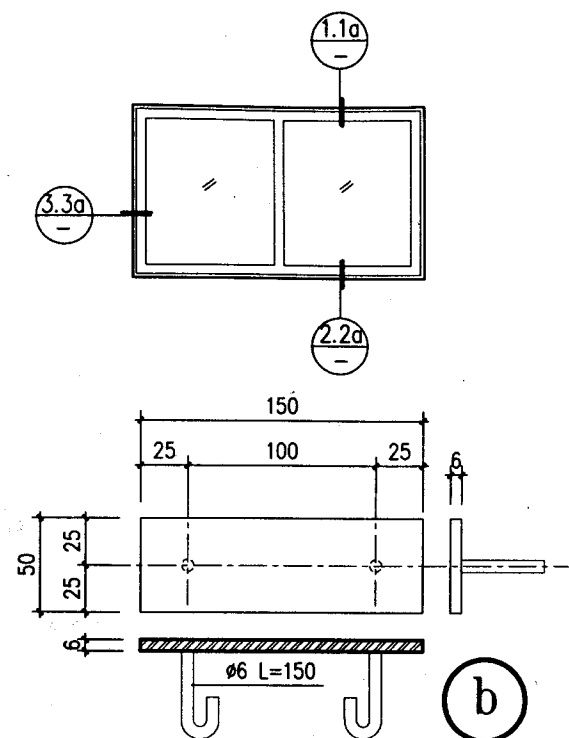
1a



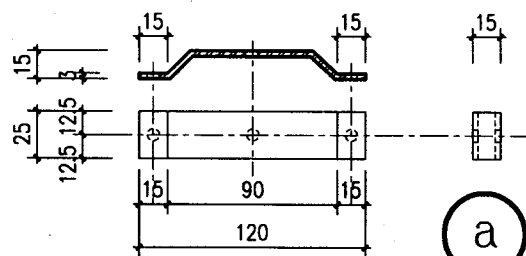
2



2a



b



a

注:

- 适用墙体: a. 钢筋混凝土墙, b. 混凝土空心砌块墙(窗两侧的空心砌块用混凝土填实), c. 砖墙, d. 其它轻型防火隔墙(两侧作钢筋混凝土构造柱)。
- 预埋件 ①、② 的间距为 500~700mm。

钢防火窗洞口安装详图

图集号

03J609

审核

王礼光

校对

彭兵

设计

潘苏萍

页

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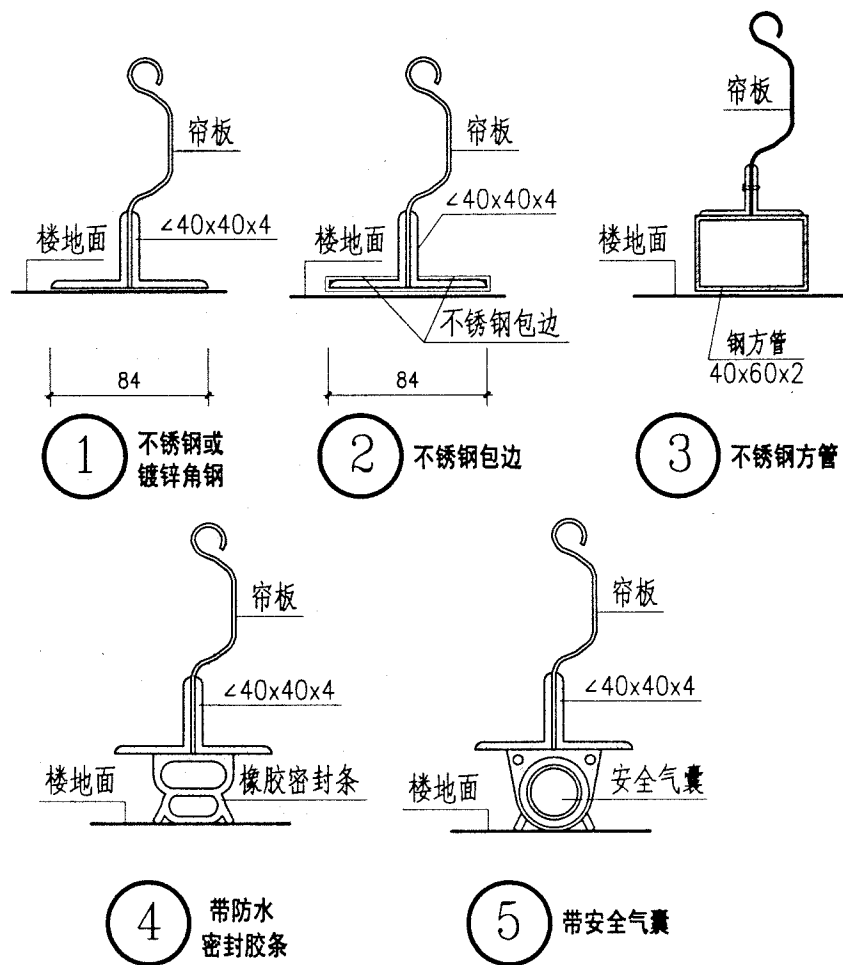
附录一 卷机功率表

W	2400	2700	3000	3300	3600	3900	4200	4500	4800	5400	6000	6600	7200	7800	8400	9600	10200	10800	11400	12000	13000	14000	15000
H																							
12000																							
11400																							
10800																							
10200																	3~4KW						
9600																							
8400																		2.2KW					
7800																							
7200																							
6600																		1.1~1.5KW					
6000																							
5400																							
4800																							
4500																							
4200																							
3900																							
3600																							
3300																							
3000																							
2700																							
2400																							

注：1. 图表中为常用卷帘门洞口规格与卷机功率，图线范围以外门洞口尺寸的卷机就近选用。靠上选上线，靠下选下线。

2. 本页根据上海森林特种钢门有限公司、北京天明兴业科技发展有限公司提供的技术资料绘制。

附录二 卷帘下缘构造图



附录一 卷机功率表

附录二 卷帘下缘构造图

图集号

03J609

审核 王祖光

校对 王祖光

设计 王祖光

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森林“安安”系列防火门、窗相关技术资料

产 品	特 点 及 主 要 技 术 参 数						
钢质防火门	特点及型式：以镀锌涂层钢板作为材料，门扇内填充不燃材料，配以五金件组成符合耐火稳定性、完整性和隔热性要求的门，门的型式有单、双扇防火门、钢质镶玻璃单、双扇防火门及钢质带亮窗的防火门。						
	适 用：广泛适用于工业与民用建筑中防火墙和防火分区的防火分隔。						
	技术参数	最大尺寸（建议） 单扇平开门：1200*2400 双扇平开门：3000*3000	执行标准 GB12955-91 及相关企业标准	耐火极限 特种≥2.0h；甲级≥1.2h 乙级≥0.9h；丙级≥0.6h	内芯材料 硅酸铝/岩棉	门扇厚度 特种≥55mm 甲、乙、丙≥40mm	面板材质厚度 特种≥1.5mm 甲、乙、丙≥1.0mm
钢质防火卷帘	特点及型式：由帘片、导轨、传动系统和电器控制系统等部分组成，火灾发生时可由手动、电动、消防联动三种控制方式使卷帘下落，阻止火势蔓延，型式上按运动方向分有垂直、侧向、水平三种，按耐火时间及抗辐射热分有普通型、复合型以及特级防火卷帘。						
	适 用：适用于工业与民用建筑中作防火分区的分隔。						
	技术参数	最大尺寸（建议） 18000*9000 （垂直） 45000*6000 （侧向） 5000*16000 （平卧）	执行标准 GB14102-93 及相关企业标准	耐火极限 F1 ≥ 1.5h；F2 ≥ 1.2h F3 ≥ 2.5h；F4 ≥ 3.0h	防烟性能 防烟型卷帘漏烟量不 大于0.2m³/min	抗风压强度 大于784Pa （80型帘板）	启闭速度 2~9m/min（可调）
木质防火门	特点及型式：用木材或木材制品和不燃材料，配以五金件组成耐火稳定性、完整性和隔热性要求的门。门的型式有单、双扇防火门、木质镶玻璃单、双扇防火门及木质带亮窗防火门。						
	适 用：适用于办公区域间、工厂楼道间、大厦通道等工业与民用建筑上要求装饰性强的防火分隔。						
	技术参数	最大尺寸（建议） 单扇：1200*2400 双扇：3000*3000	执行标准 GB14101-93 及相关企业标准	耐火极限 甲≥1.2h；乙≥0.9h 丙≥0.6h	内芯材料 防火板+硅酸铝/岩棉	门扇厚度 甲、乙、丙≥40mm	
钢质防火窗	特点及型式：用涂覆钢板及防火玻璃组成符合耐火要求的窗，型式为固定式。						
	适 用：适用于工业与民用建筑中要求有可视效果的防火分隔。						
	技术参数	最大洞口尺寸 2100*1800	执行标准 GB16809-1997 及相关企业标准	耐火极限 甲≥1.2h；乙≥0.9h 丙≥0.6h	组成材料 涂层镀锌钢板和防火玻璃	五金配件 熔融温度不低于950℃	

天明牌防火门窗系列产品相关技术资料

产 品		主 要 性 能 参 数
钢质防火门	普通钢质防火门	防火性能：特级：1.5h、2.0h（核电站专用门）；甲级：1.2h；乙级：0.9h；丙级：0.6h 材料：框 1.2mm~1.5mm 优质冷轧钢板；板 1.0mm~1.2mm 优质冷轧钢板
	多功能钢质防火门	防火性能：甲级：1.2h；隔音等级Ⅲ级；保温等级Ⅱ级；门厚 45mm
	防盗安全门	防盗安全门破坏性试验符合A级要求
木质门	木质防火门	防火性能：甲级：1.2h；乙级：0.9h；丙级：0.6h；门厚：50mm~55mm
	木质防火隔音门	防火性能：甲级；隔音性能：Ⅲ级
窗	钢质防火窗	防火性能：甲级：1.2h；
防火卷帘门	普通型钢质防火防烟卷帘	防火性能：耐火性能大于3.0h；漏烟量0.1m ³ /m ² ·min
	复合型钢质防火防烟卷帘	防火性能：耐火性能大于4.0h；漏烟量0.02m ³ /m ² ·min
	无机布基防火卷帘	防火性能：耐火性能大于4.0h
	双轨特级防火卷帘	防火性能：耐火性能大于4.0h（注：包括以测量背火面温升作为判定条件）
	挡烟垂帘	耐高温能力 45min；帘布 0.8mm
	复合型钢质侧向防火防烟卷帘	防火性能：耐火性能大于4.0h；漏烟量0.02m ³ /m ² ·min
	复合型钢质防火防烟水平卷帘	防火性能：耐火性能大于3.0h；漏烟量0.02m ³ /m ² ·min
	钢质水雾特级防火卷帘 无机水雾特级防火卷帘	防火性能：耐火性能大于3.0h；喷头工作压力大于等于 0.35MPa，布水强度不小于 3.5L/min·m ² （注：包括以测量背火面温升作为判定条件）

豪欣防火门产品相关技术资料

产 品	特点及主要技术参数
木质防火门	门框采用柳安实木加工，门扇骨架使用柳安或硬杂木指接料，并填充优质不燃性隔热材料，不仅保证了产品质量不会变形，更能确保门扇平整度及外观装饰性，使其具有良好的耐火性、隔热性。 五金配件均选用经国家检测机构检验合格的产品。 防火性能：甲级 1.2h、乙级 0.9h、丙级 0.6h 执行标准：GB14101-93 门扇厚度：45mm~50mm 可加工定做各种规格。产品有双扇、单扇、双扇带玻璃、单扇带玻璃、双扇带玻璃带亮、单扇带玻璃带亮等式样。
钢木结构防盗门	采用特殊工艺，门框使用钢框外贴实木或采用实木门框内衬钢条，可使用各种木材饰面。门扇内衬瓦楞形钢板，并可根据客户需要配以各种材料及式样的外饰面，既可起到防盗作用，又能达到外观舒适、美观的效果。 安全级别：A 级 执行标准：GB17565-1998 门扇厚度：40mm~45mm 可加工定做各种规格。产品有单扇、子母扇两种式样。
适用范围	应用于工业及民用高层建筑、花园别墅及大型商场、娱乐场所等需要防火、防盗的场所。

雷博防火门窗产品相关技术资料

产 品	特点及主要技术参数
双扇带玻璃带亮窗钢质防火门	钢质防火门采用优质冷轧钢板、不锈钢板加工制成，门扇内填充优质不燃隔热材料，根据用户需要配有防火玻璃及各种防火五金配件，产品表面经防锈静电喷涂，美观大方。耐火极限：72min 为甲级，通过国家防火建筑材料质量监督检验中心检测。
单扇钢质防火门	钢质防火门采用优质冷轧钢板、不锈钢板加工制成，门扇内填充优质不燃隔热材料，根据用户需要配有防火玻璃及各种防火五金配件，产品表面经防锈静电喷涂，美观大方。耐火极限：36min 为丙级，通过国家防火建筑材料质量监督检验中心检测。
单扇木质防火门	门框与门扇采用优质木材。含水率不大于 12%。 门扇内填充优质不燃隔热材料，门框经特殊阻燃处理。 闭门器、锁具、铰链、插销等五金件均采用经国家消防检测机构检测合格的定型配套产品。 门框与门扇接触处设置防火防烟装置。 可根据用户要求，在产品的表面采用各种高中档的装饰木板、优质冷轧钢板材料组合。 耐火极限：36min 为丙级，通过国家防火建筑材料质量监督检验中心检测。
适用范围	应用在工业与民用建筑中，例如：购物中心、旅馆、厂房、学校、公共建筑、高层商住楼、医院等用作防火隔断。