

05 系列建筑标准设计图集

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05J4-2

专用门窗

专用门窗

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编制说明

1. 适用范围

本图集适用于民用建筑及工业建筑用专用门窗。

2. 设计依据

《建筑门窗术语》GB5823-86

《建筑门窗洞口尺寸条例》GB5824-86

《钢制防火门通用技术条件》GB12955-1991

《木制防火门通用技术条件》GB14101-1993

《钢质防火窗》GB16809-1997

《钢制防火卷帘通用技术条件》GB14102-1993

《防盗安全门通用技术条件》GB17565-98

《单扇平开多功能户门》JG/T 3054-1999

《门和卷帘的耐火试验方法》GB/T 7633-1987

《建筑外门保温性能分级及其检测方法》GB 16729-97

《建筑用门空气隔声性能分级及其检测方法》GB 16730-97

《建筑设计防火规范》GBJ16-87 (2001年版)

《高层民用建筑设计防火规范》GB50045-95 (2001年版)

《民用建筑节能设计标准(采暖居住建筑部分)》JGJ 26-95

《建筑隔声测量规范》GBJ 75-84

3. 编制内容

本图集主要内容为：防火门、防火窗、防火卷帘、隔声门、安全户门、防X射线门、电磁波屏蔽门、转门、升降门等专用门窗，包括门窗的选型和节点详图。

本图集所示立面均由室外向室内立视，外开启扇为细实线，内开启扇为细虚线。

本图集所列门窗均为一般常用的门窗类型和规格，如不能满足工程项目要求时，设计者可与生产厂家进行联系，另行协商。专用门窗均有专业生产厂家，各厂家生产技术、构造要求可能有所差别，选择具体厂家产品时，技术性能指标、节点构造、安装方法等，以厂家提供的技术资料为准。预埋件等应满足厂家的要求。

4. 采用材料

4.1 门窗所用材料质量要求应符合国家现行标准和有关规定。产品出厂前应检验合格，并附有合格证。

4.2 门窗颜色由设计人自定，并在门窗表中注明。

5. 门窗安装

5.1 本图集门窗一律为先砌洞口后安装,要求洞口尺寸准确,四周平直,按照门窗与洞口连接方法作好预埋件。

5.2 门窗安装应符合《建筑装修工程质量验收规范》GB50210-2001的规定。

5.3 安装工作应由专业安装人员按有关规定进行,宜优先考虑由生产厂专业队伍负责安装。

6. 门窗代号

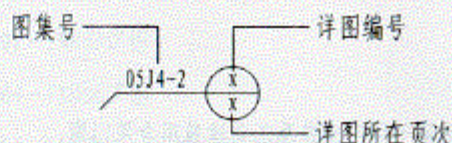
钢防火门	GFM	木防火门	MFM
防火卷帘门	FJM	隔声门	GSM
安全户门	AHM	防X射线门	FXM
电磁波屏蔽门	DM	转门	ZM
防火窗	FC	升降门	SJM

7. 选用方法

7.1 门窗索引方法



7.2 详图索引方法



8. 其他

8.1 本图集标注尺寸以毫米为单位。

8.2 在本图集使用中,本图集所依据的规范、标准若有更新时,选用者应按新规范、标准对有关做法进行检查、调整,以使所选做法符合相关规范有效版本的要求。

防火门说明

1. 适用范围

本图集防火门适用于民用建筑及工业建筑用防火门。

2. 耐火极限

按规范规定防火门的耐火极限分为三级,即:甲级防火门耐火极限为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。

3. 钢防火门

3.1 耐火性能试验要求

钢防火门的耐火性能按GB/T7633进行试验。应达到试验要求。

3.2 材料与配件

3.2.1 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1.2~1.5厚钢板,门扇面板宜采用0.8~1.2厚钢板。加固件宜采用1.2~1.5厚钢板。加固件如设有螺孔,钢板厚度应不小于3.0。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℃。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缝板,并装设闭门器和顺序器等。门框宜设密封槽,槽内应嵌装由不燃材料制成的密封条。

3.2.2 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。

3.2.3 门的尺寸与公差应符合GB12955-91标准5.3条的规定。

4. 木防火门

4.1 耐火性能试验要求

木防火门的耐火性能按GB/T7633进行试验。应达到试验要求。

4.2 其他试验

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。

4.3 材料与五金配件

4.3.1 木材的选材标准应符合GB14101-93表2的规定。木材应采用窑干法干燥,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、樟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。

4.3.2 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。

4.3.3 玻璃应采用不影响防火门耐火性能试验的合格产品。

4.3.4 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。

4.3.5门的制作、安装要求均见GB14101-93。

5. 防火门的防腐蚀及装饰

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

5.1 防火门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。

5.2 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。

5.3 防火门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和构造有关,须经严格的检测确定。

6. 门型及代号

6.1 本图集的防火门按材料构造分为钢防火门、木夹板防火门、木模压板防火门等。开启方式为平开门。

6.2 平开门:应为向疏散方向开启,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。双扇防火门,还应具有按顺序关闭的功能,应装有顺序器。常开的防火门,当发生火灾时,应具有自行关闭和信号反馈的功能。

6.3 防火门类型及编号

GFM01~03

钢防火门

GFM04~06

管道井钢防火门

MFM01~03

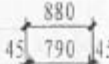
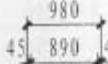
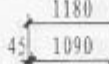
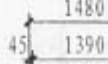
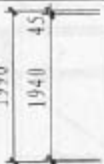
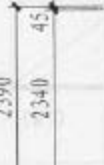
木夹板防火门

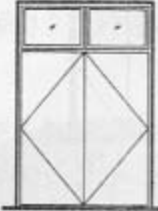
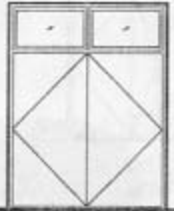
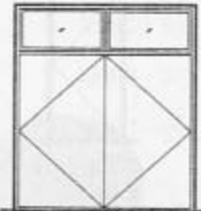
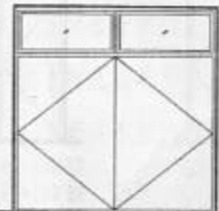
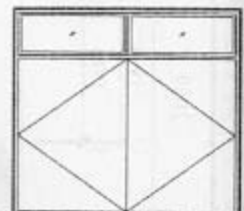
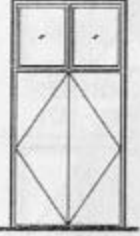
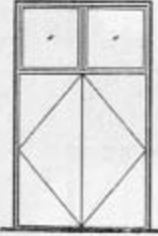
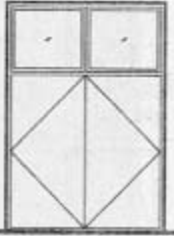
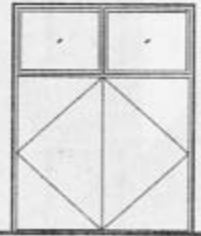
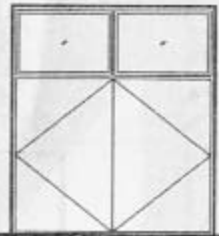
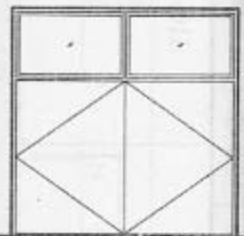
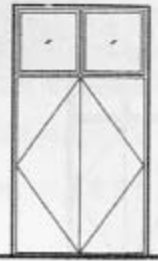
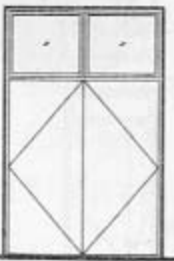
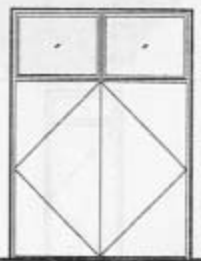
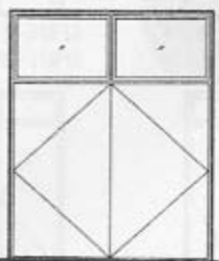
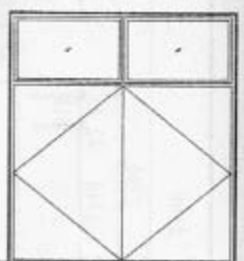
MFM04~06

木模压板防火门

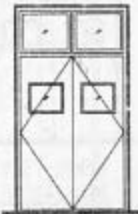
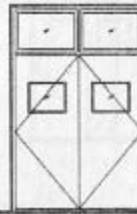
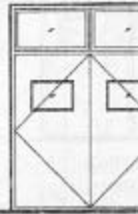
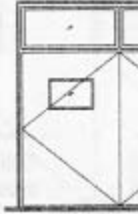
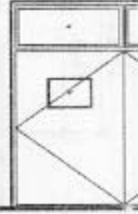
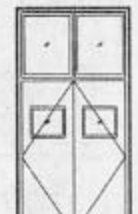
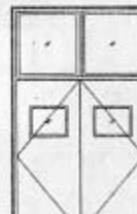
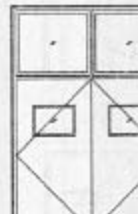
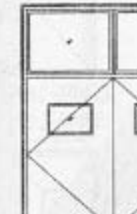
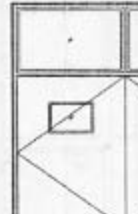
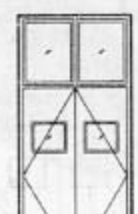
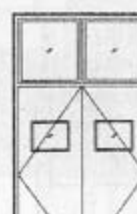
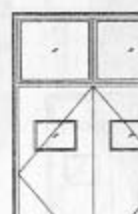
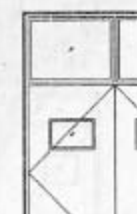
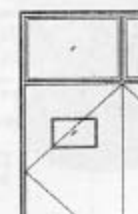
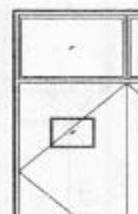
MFM07~09

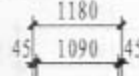
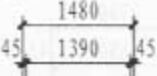
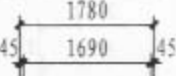
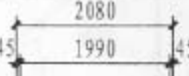
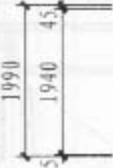
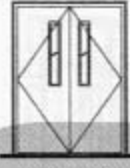
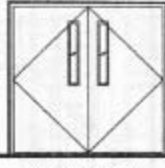
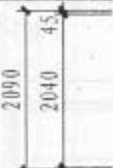
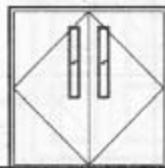
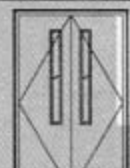
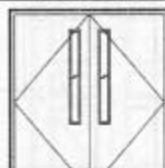
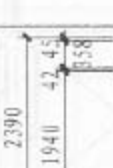
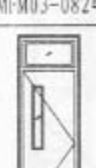
管道井木防火门

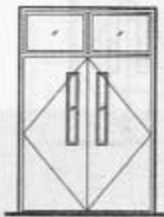
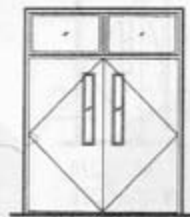
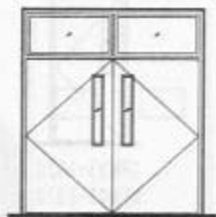
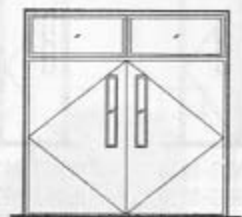
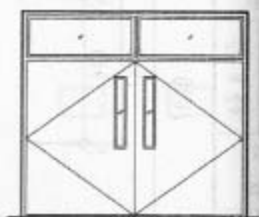
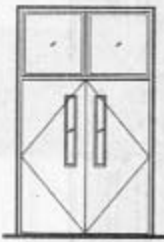
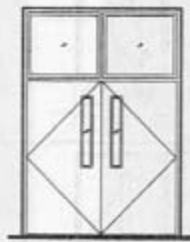
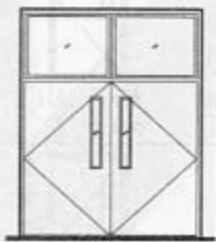
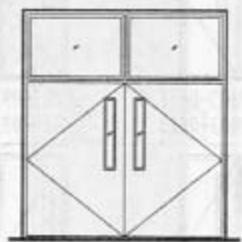
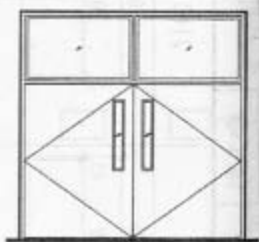
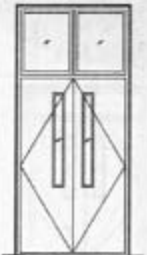
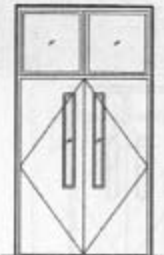
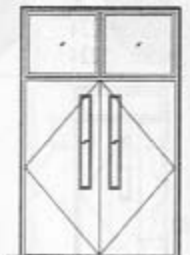
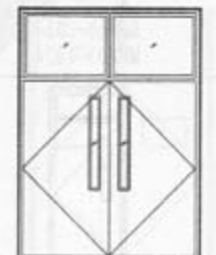
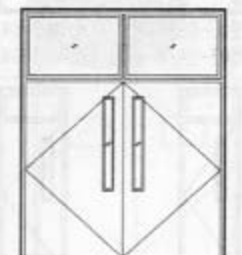
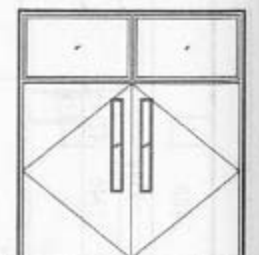
洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
								
2000		 GFM01-0820 MFM01-0820	 GFM01-0920 MFM01-0920	 GFM01-1020 MFM01-1020	 GFM01-1220 MFM01-1220	 GFM01-1520 MFM01-1520	 GFM01-1820 MFM01-1820	 GFM01-2120 MFM01-2120
		 GFM01-0821 MFM01-0821	 GFM01-0921 MFM01-0921	 GFM01-1021 MFM01-1021	 GFM01-1221 MFM01-1221	 GFM01-1521 MFM01-1521	 GFM01-1821 MFM01-1821	 GFM01-2121 MFM01-2121
2400		 GFM01-0824 MFM01-0824	 GFM01-0924 MFM01-0924	 GFM01-1024 MFM01-1024	 GFM01-1224 MFM01-1224	 GFM01-1524 MFM01-1524	 GFM01-1824 MFM01-1824	 GFM01-2124 MFM01-2124
		 GFM011-0824 MFM011-0824	 GFM011-0924 MFM011-0924	 GFM011-1024 MFM011-1024	 GFM011-1224 MFM011-1224	 GFM011-1524 MFM011-1524	 GFM011-1824 MFM011-1824	 GFM011-2124 MFM011-2124

洞宽		1500	1800	2100	2400	2700	3000
洞高		1480 1390	1780 1690	2080 1990	2380 2290	2680 2590	2980 2890
		45	45	45	45	45	45
2700	2690 2040 5						
		GFM01-1527 MFM01-1527	GFM01-1827 MFM01-1827	GFM01-2127 MFM01-2127	GFM01-2427	GFM01-2727	GFM01-3027
3000	2990 2040 5						
		GFM01-1530	GFM01-1830	GFM01-2130	GFM01-2430	GFM01-2730	GFM01-3030
3300	3290 2340 5						
		GFM01-1533	GFM01-1833	GFM01-2133	GFM01-2433	GFM01-2733	GFM01-3033

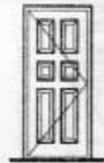
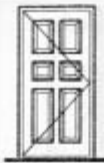
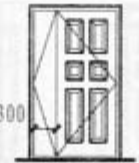
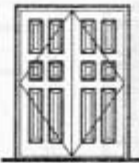
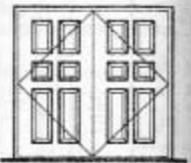
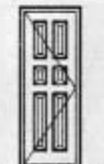
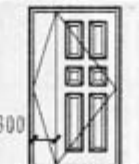
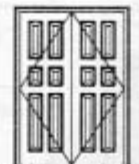
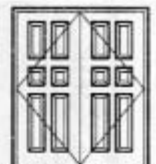
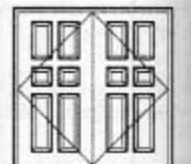
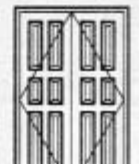
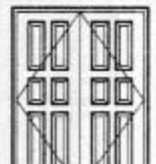
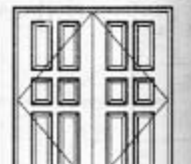
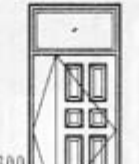
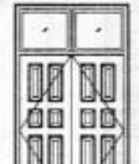
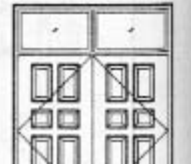
洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
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		 GFM02-0821 MFM02-0821	 GFM02-0921 MFM02-0921	 GFM02-1021 MFM02-1021	 GFM02-1221 MFM02-1221	 GFM02-1521 MFM02-1521	 GFM02-1821 MFM02-1821	 GFM02-2121 MFM02-2121
2400		 GFM02-0824 MFM02-0824	 GFM02-0924 MFM02-0924	 GFM02-1024 MFM02-1024	 GFM02-1224 MFM02-1224	 GFM02-1524 MFM02-1524	 GFM02-1824 MFM02-1824	 GFM02-2124 MFM02-2124
		 GFM021-0824 MFM021-0824	 GFM021-0924 MFM021-0924	 GFM021-1024 MFM021-1024	 GFM021-1224 MFM021-1224	 GFM021-1524 MFM021-1524	 GFM021-1824 MFM021-1824	 GFM021-2124 MFM021-2124

洞宽 \ 洞高		1500	1800	2100	2400	2700	3000
		1480 1390 45	1780 1690 45	2080 1990 45	2380 2290 45	2680 2590 45	2980 2890 45
2700	2690 2040 5						
		GFM02-1527 MFM02-1527	GFM02-1827 MFM02-1827	GFM02-2127 MFM02-2127	GFM02-2427	GFM02-2727	GFM02-3027
3000	2990 2040 5						
		GFM02-1530	GFM02-1830	GFM02-2130	GFM02-2430	GFM02-2730	GFM02-3030
3300	3290 2340 5						
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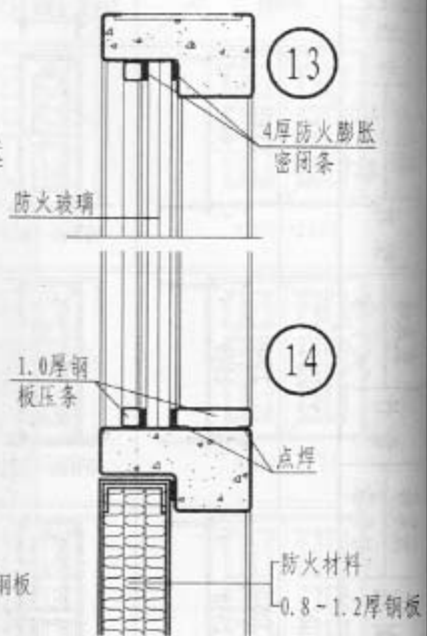
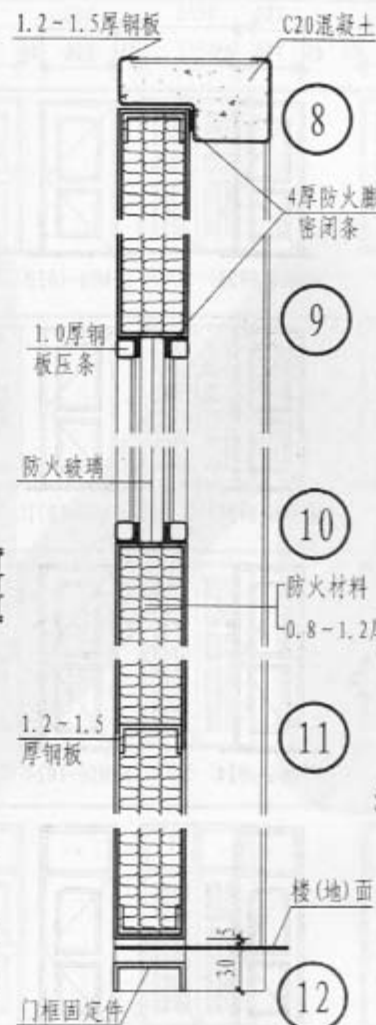
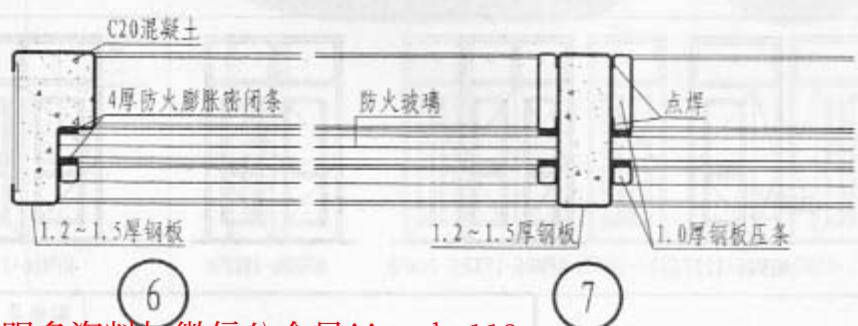
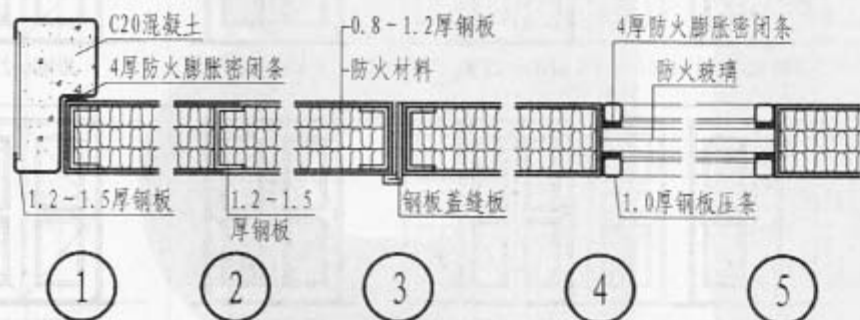
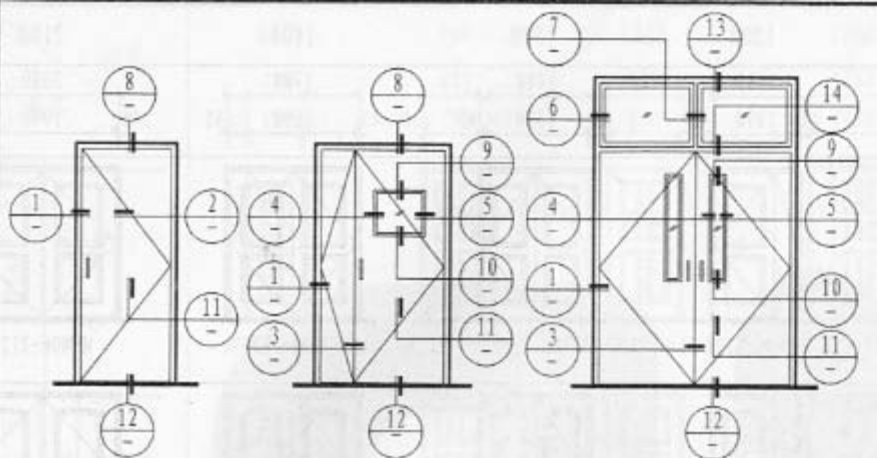
洞宽 洞高		800	900	1000	1200	1500	1800	2100
								
2000								
	GFM03-0820 MFM03-0820	GFM03-0920 MFM03-0920	GFM03-1020 MFM03-1020	GFM03-1220 MFM03-1220	GFM03-1520 MFM03-1520	GFM03-1820 MFM03-1820	GFM03-2120 MFM03-2120	
2100								
	GFM03-0821 MFM03-0821	GFM03-0921 MFM03-0921	GFM03-1021 MFM03-1021	GFM03-1221 MFM03-1221	GFM03-1521 MFM03-1521	GFM03-1821 MFM03-1821	GFM03-2121 MFM03-2121	
2400								
	GFM03-0824 MFM03-0824	GFM03-0924 MFM03-0924	GFM03-1024 MFM03-1024	GFM03-1224 MFM03-1224	GFM03-1524 MFM03-1524	GFM03-1824 MFM03-1824	GFM03-2124 MFM03-2124	
2400								
	GFM031-0824 MFM031-0824	GFM031-0924 MFM031-0924	GFM031-1024 MFM031-1024	GFM031-1224 MFM031-1224	GFM031-1524 MFM031-1524	GFM031-1824 MFM031-1824	GFM031-2124 MFM031-2124	

洞宽 洞高	洞宽					
	1500	1800	2100	2400	2700	3000
2700	1480 1390 45	1780 1690 45	2080 1990 45	2380 2290 45	2680 2590 45	2980 2890 45
						
	GFM03-1527 MFM03-1527	GFM03-1827 MFM03-1827	GFM03-2127 MFM03-2127	GFM03-2427	GFM03-2727	GFM03-3027
3000	2690 2040 45 558					
						
	GFM03-1530	GFM03-1830	GFM03-2130	GFM03-2430	GFM03-2730	GFM03-3030
3300	2990 2040 45 858					
						
	GFM03-1533	GFM03-1833	GFM03-2133	GFM03-2433	GFM03-2733	GFM03-3033

洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
2000		 MF04-0820	 MF04-0920	 MF04-1020	 MF04-1220	 MF04-1520	 MF04-1820	 MF04-2120
2100		 MF04-0821	 MF04-0921	 MF04-1021	 MF04-1221	 MF04-1521	 MF04-1821	 MF04-2121
2400		 MF04-0824	 MF04-0924	 MF04-1024	 MF04-1224	 MF04-1524	 MF04-1824	 MF04-2124
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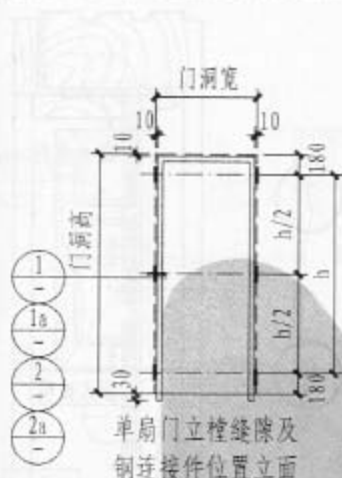
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		780 45 690 45	880 45 790 45	980 45 890 45	1180 45 1090 45	1480 45 1390 45	1780 45 1690 45	2080 45 1990 45
2000	1990 5 1940 45	 MFM05-0820	 MFM05-0920	 MFM05-1020	 MFM05-1220	 MFM05-1520	 MFM05-1820	 MFM05-2120
2100	2090 5 2040 45	 MFM05-0821	 MFM05-0921	 MFM05-1021	 MFM05-1221	 MFM05-1521	 MFM05-1821	 MFM05-2121
2400	2390 5 2340 45	 MFM05-0824	 MFM05-0924	 MFM05-1024	 MFM05-1224	 MFM05-1524	 MFM05-1824	 MFM05-2124
2700	2690 5 1940 42 45 558	 MFM05-0827	 MFM05-0927	 MFM05-1027	 MFM05-1227	 MFM05-1527	 MFM05-1827	 MFM05-2127

洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
		780 45 690 45	880 45 790 45	980 45 890 45	1180 45 1090 45	1480 45 1390 45	1780 45 1690 45	2080 45 1990 45
2000								
		MF06-0820	MF06-0920	MF06-1020	MF06-1220	MF06-1520	MF06-1820	MF06-2120
2100								
		MF06-0821	MF06-0921	MF06-1021	MF06-1221	MF06-1521	MF06-1821	MF06-2121
2400								
		MF06-0824	MF06-0924	MF06-1024	MF06-1224	MF06-1524	MF06-1824	MF06-2124
2700								
		MF06-0827	MF06-0927	MF06-1027	MF06-1227	MF06-1527	MF06-1827	MF06-2127

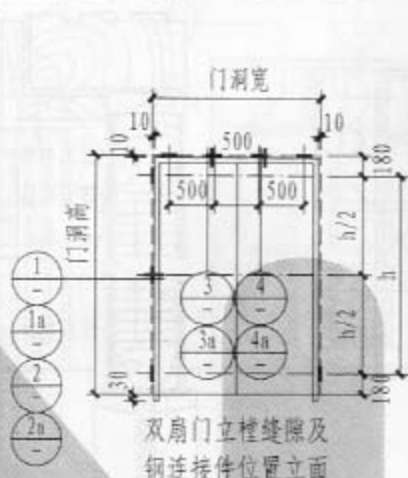


注: 1. 本图为参考详图, 各生产厂家用料尺寸及做法有所差异, 实际做法均见有关厂家产品。

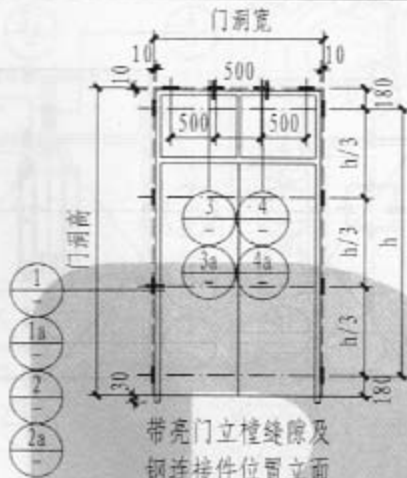
2. 钢防火门应先在门框截面内填充C20细石混凝土, 待达到强度后进行安装。



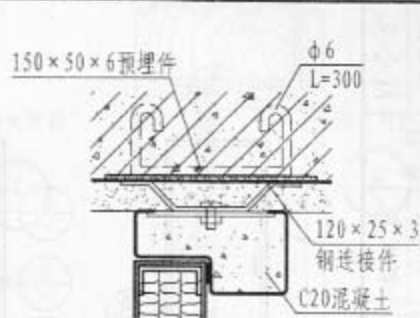
单扇门立樁縫隙及
鋼連接件位置立面



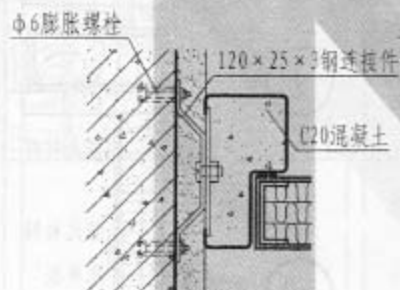
雙扇門立樁縫隙及
鋼連接件位置立面



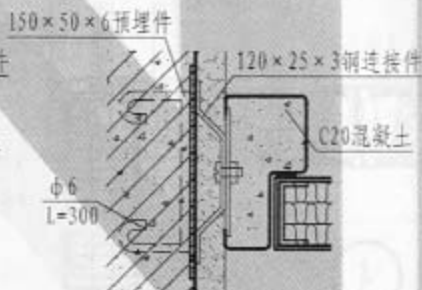
帶亮門立樁縫隙及
鋼連接件位置立面



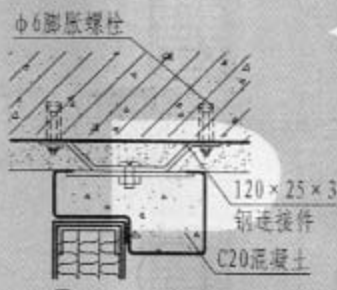
4 中立樁



1 中立樁



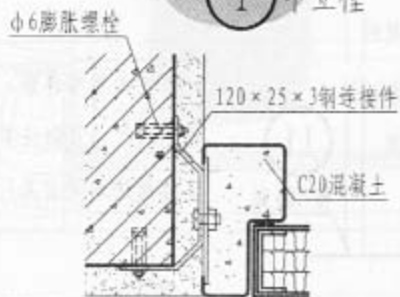
2 中立樁



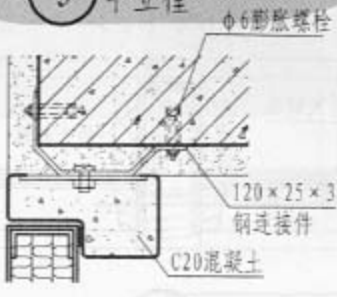
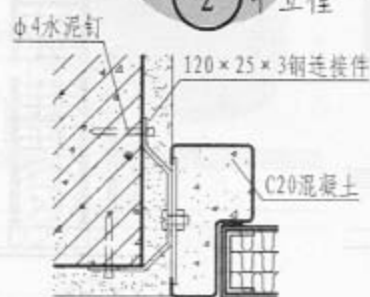
3 中立樁



4a 邊立樁



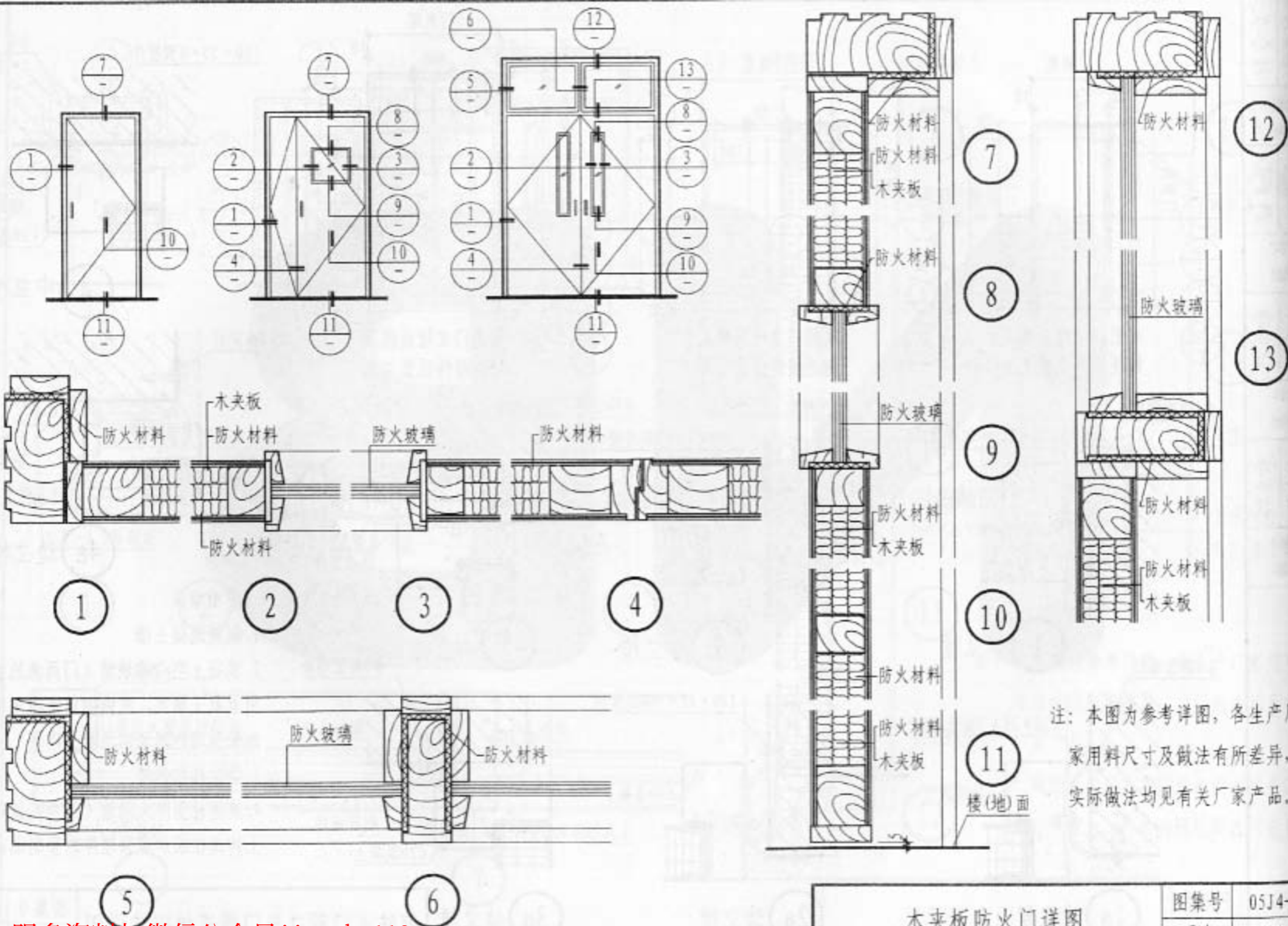
2a 邊立樁



3a 邊立樁

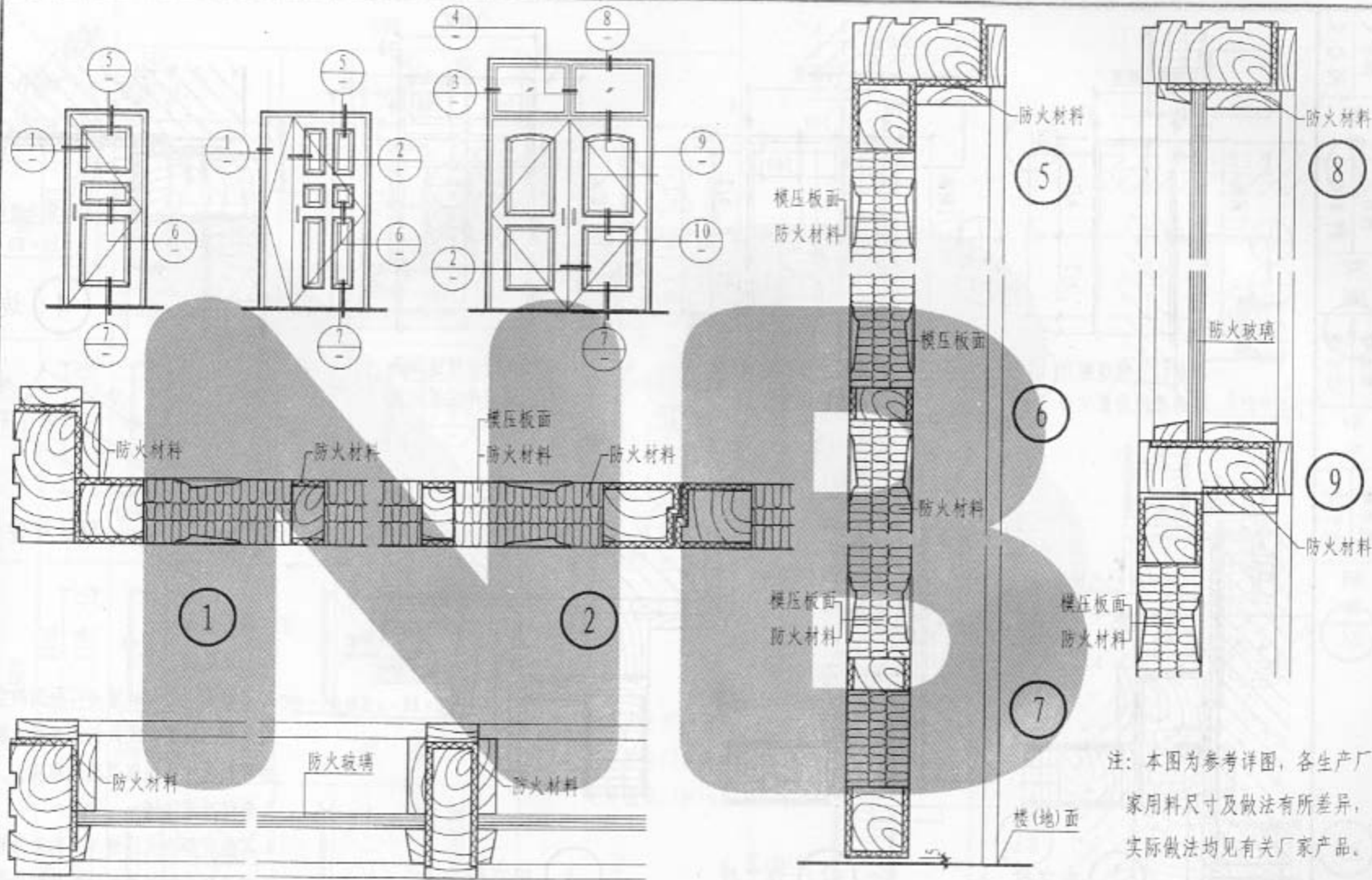
注：適用墙体

1. 钢筋混凝土墙
2. 混凝土空心砌块墙（门两侧的空心砌块用混凝土填实，或做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）
3. 烧结砖砌体墙
4. 其他轻型防火隔墙（门两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）

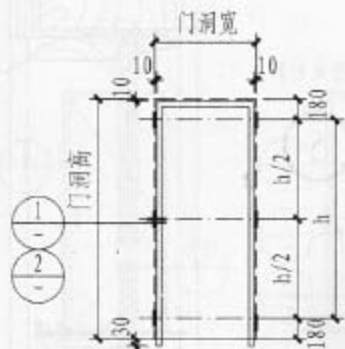


注: 本图为参考详图, 各生产厂家用料尺寸及做法有所差异, 实际做法均见有关厂家产品。

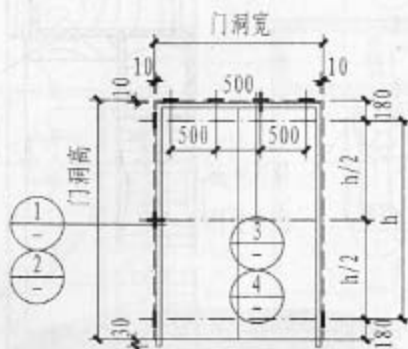
木夹板防火门详图



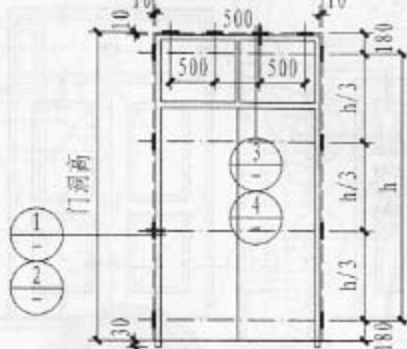
注：本图为参考详图，各生产厂家用料尺寸及做法有所差异，实际做法均见有关厂家产品。



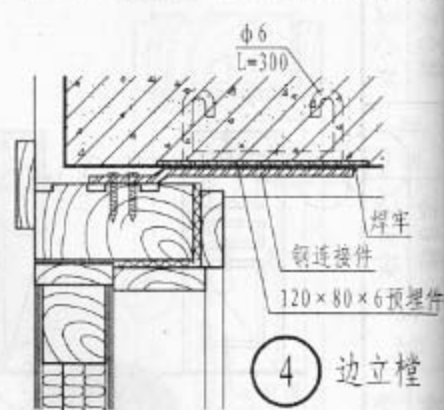
单扇门立樘缝隙及
钢连接件位置立面



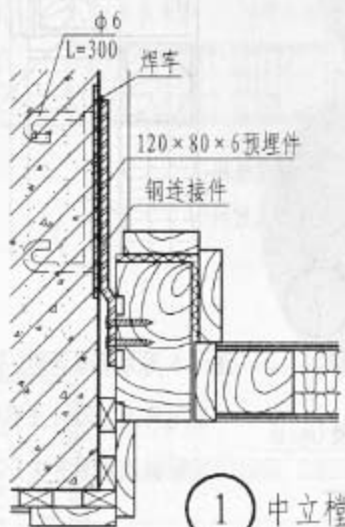
双扇门立樘缝隙及
钢连接件位置立面



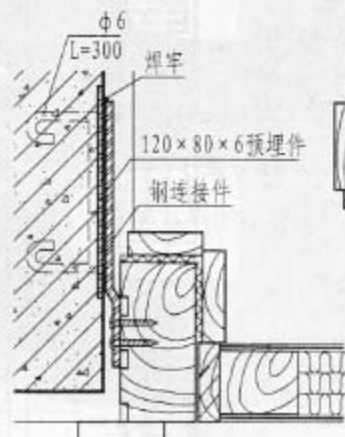
带亮门立樘缝隙及
钢连接件位置立面



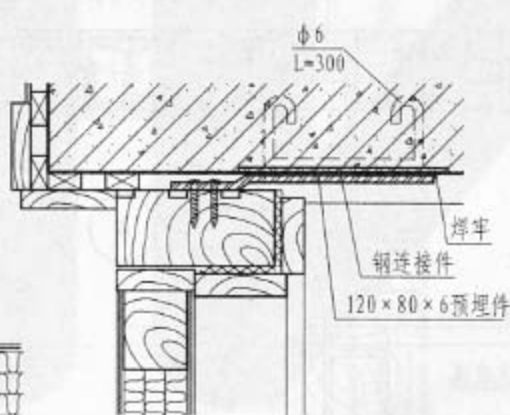
4 边立樘



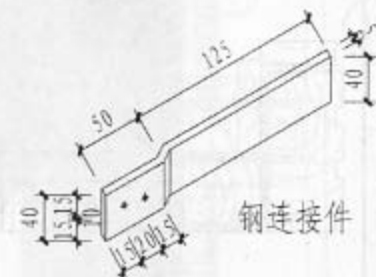
1 中立樘



2 边立樘



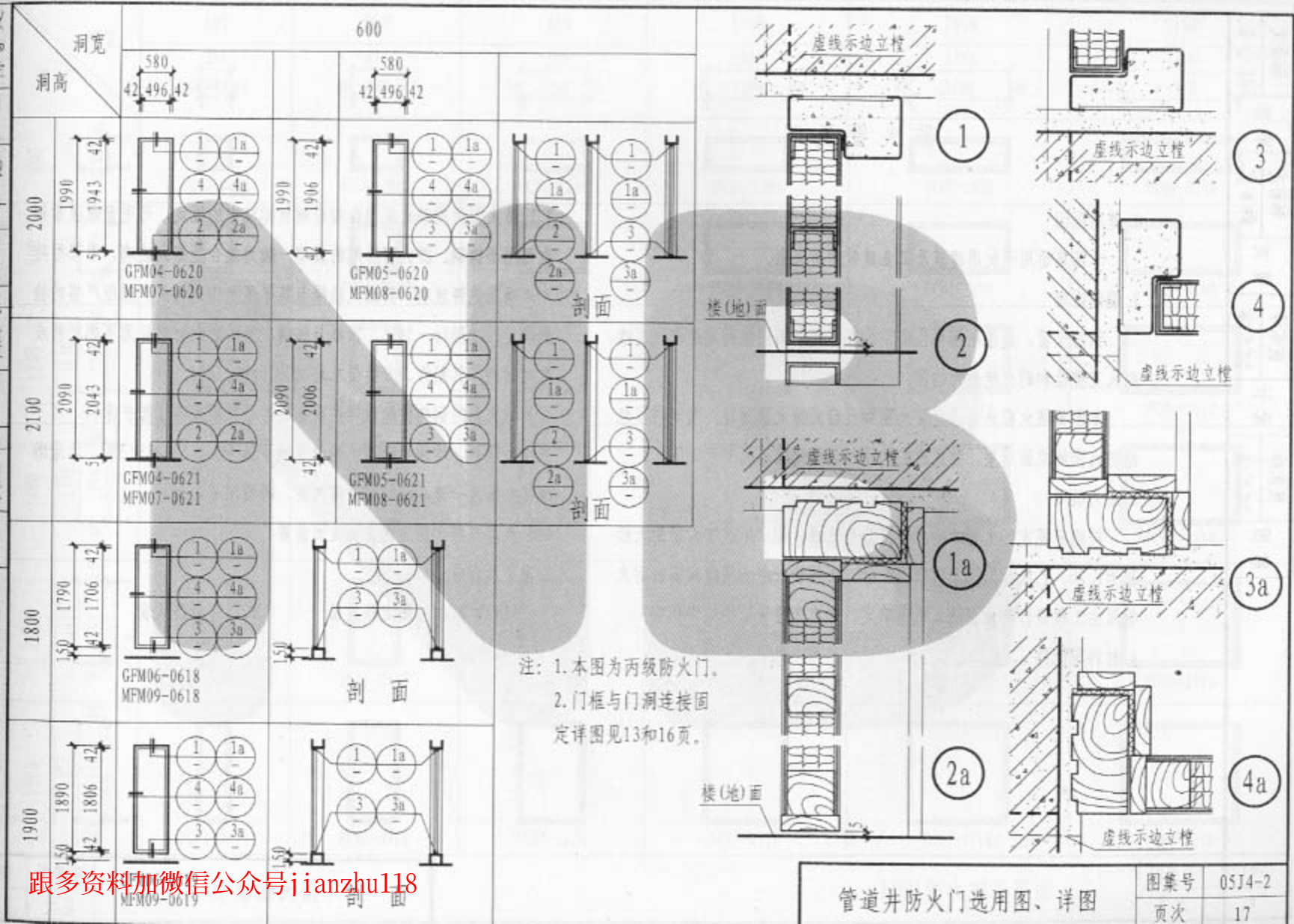
3 中立樘



钢连接件

注: 适用墙体

1. 钢筋混凝土墙
2. 混凝土空心砌块墙 (门两侧的空心砌块用混凝土填充, 或做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块)
3. 烧结砖砌体墙
4. 其他轻型防火隔墙 (门两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块)



防火窗说明

1. 适用范围

本图集适用于民用建筑及工业建筑用防火窗。

2. 编制内容

钢防火窗，是指用钢材作框架，在一定时间内能满足耐火稳定性、耐火完整性和耐火绝热性的窗。

本图集防火窗分为固定防火窗和开启式防火窗两种。编制内容包括防火窗的立面选型，防火窗的构造及与墙体的连接节点详图。

3. 耐火极限

按规范规定防火窗的耐火极限分为三级，即：甲级防火窗耐火极限为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。

4. 材料与配件

4.1 防火窗所用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。防火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。一般16~30厚。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。

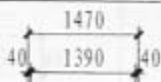
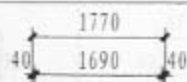
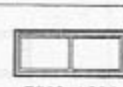
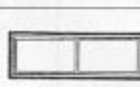
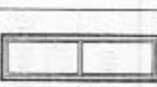
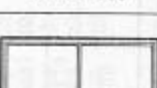
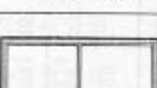
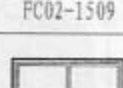
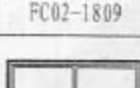
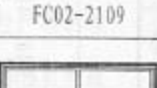
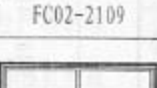
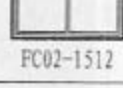
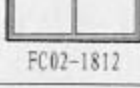
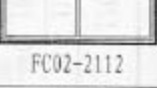
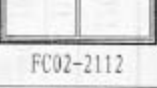
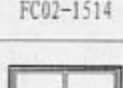
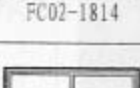
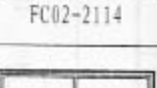
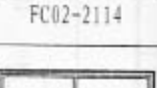
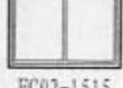
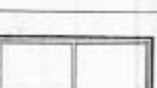
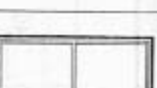
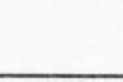
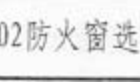
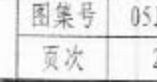
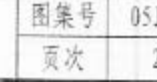
4.2 防火窗的钢构件除镀锌件或制造时已按规定作了防护涂料，可不另作处理外，均须经除锈（除锈等级不低于Sa2.5级或St3级）后涂醇酸铁红底漆一道，涂醇酸瓷漆两道，醇酸清漆一道。

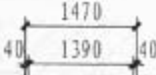
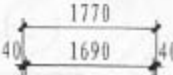
4.3 开启式防火窗应设自动关闭装置。

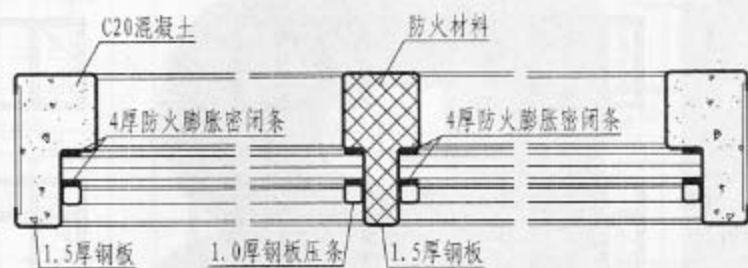
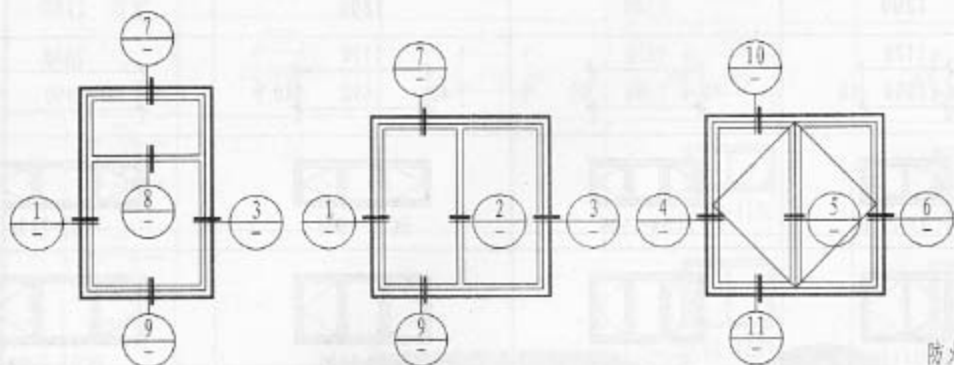
5. 窗型及代号

FC01、FC02 固定防火窗 FC03 平开防火窗

洞宽 \ 洞高		600	900	1200	1500	1800	2100
		570 40 490 40	870 40 790 40	1170 40 1090 40	1470 40 1390 40	1770 40 1690 40	2070 40 1990 40
600		 FC01-0606	 FC01-0906	 FC01-1206	 FC01-1506	 FC01-1806	 FC01-2106
900		 FC01-0609	 FC01-0909	 FC01-1209	 FC01-1509	 FC01-1809	 FC01-2109
1200		 FC01-0612	 FC01-0912	 FC01-1212	 FC01-1512	 FC01-1812	 FC01-2112
1400		 FC01-0614	 FC01-0914	 FC01-1214	 FC01-1514	 FC01-1814	 FC01-2114
1500		 FC01-0615	 FC01-0915	 FC01-1215	 FC01-1515	 FC01-1815	 FC01-2115
1800		 FC01-0618	 FC01-0918	 FC01-1218	 FC01-1518	 FC01-1818	 FC01-2118

洞宽 洞高		600	900	1200	1500	1800	2100
							
600							
							
900							
							
1200							
							
1400							
							
1500							
							
1800							

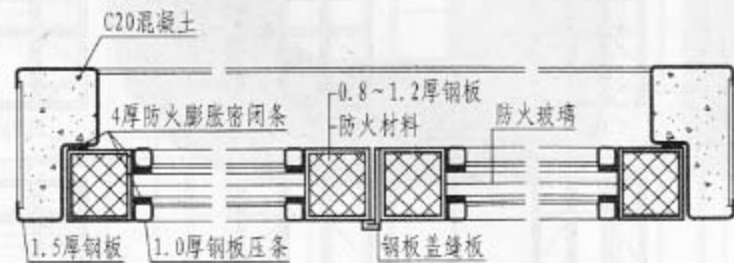
洞宽 \ 洞高		600	900	1200	1500	1800	2100
							
600		 FC03-0606	 FC03-0906	 FC03-1206	 FC03-1506	 FC03-1806	 FC03-2106
900		 FC03-0609	 FC03-0909	 FC03-1209	 FC03-1509	 FC03-1809	 FC03-2109
1200		 FC03-0612	 FC03-0912	 FC03-1212	 FC03-1512	 FC03-1812	 FC03-2112
1400		 FC03-0614	 FC03-0914	 FC03-1214	 FC03-1514	 FC03-1814	 FC03-2114
1500		 FC03-0615	 FC03-0915	 FC03-1215	 FC03-1515	 FC03-1815	 FC03-2115
1800		 FC03-0618	 FC03-0918	 FC03-1218	 FC03-1518	 FC03-1818	 FC03-2118



1

2

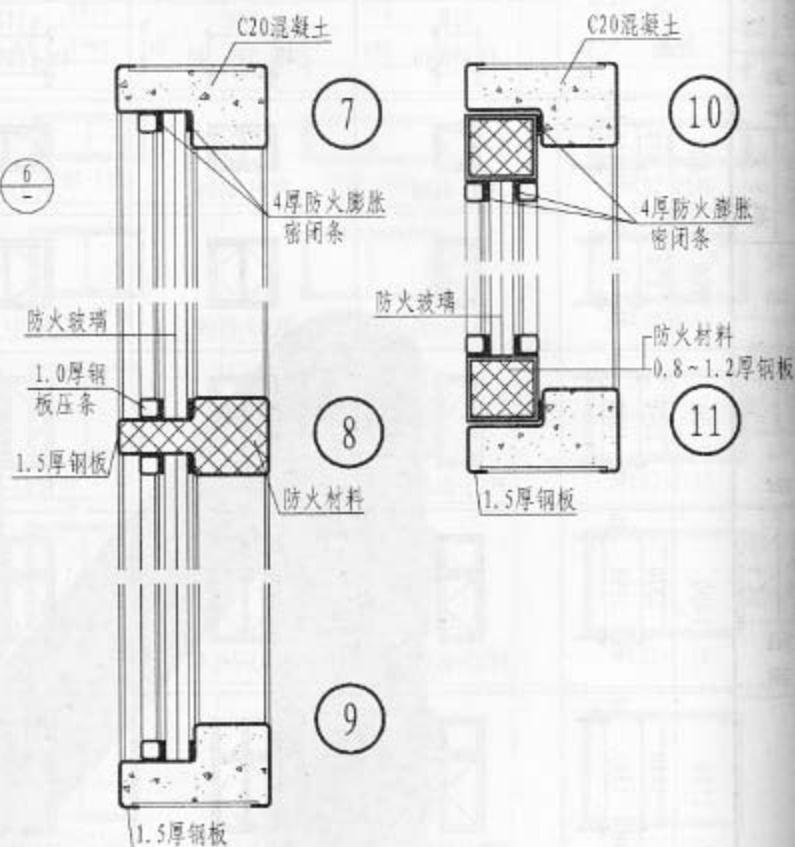
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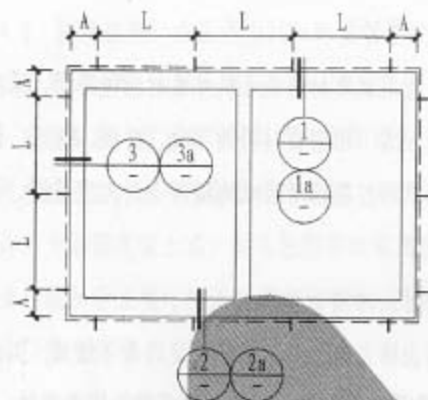
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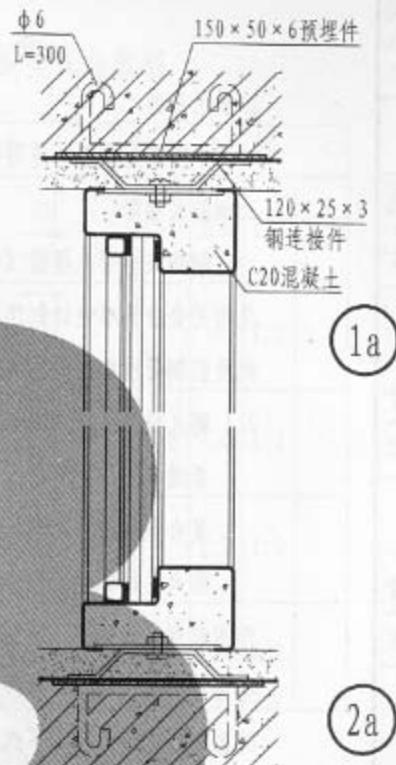
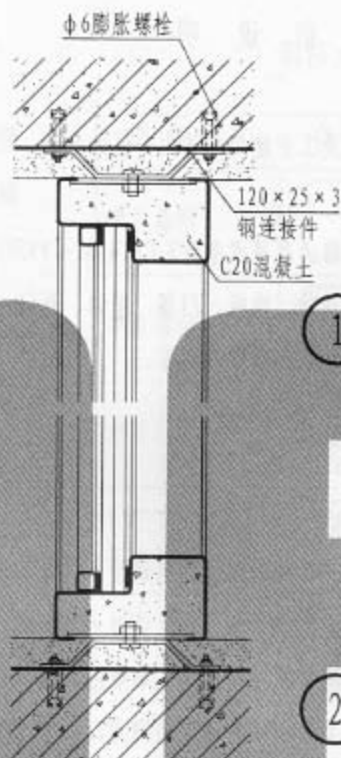
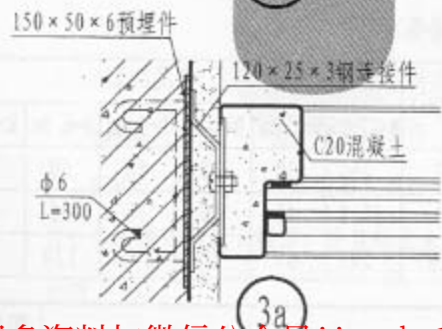
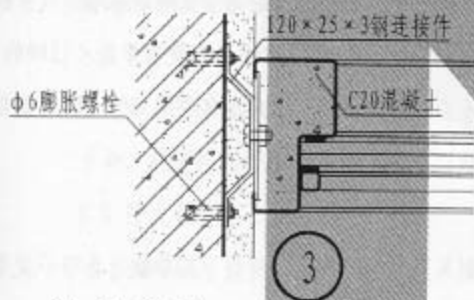
6



- 注: 1. 本图为参考详图, 各生产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。
2. 钢防火窗应先在门框截面内填充C20细石混凝土, 待达到强度后进行安装。



钢连接件位置立面图



注: 1. 适用墙体

- (1) 钢筋混凝土墙
- (2) 混凝土空心砌块墙 (窗两侧的空心砌块用混凝土填实, 或做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块)
- (3) 烧结砖砌体墙
- (4) 其他轻型防火隔墙 (窗两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块)

2. 钢连接件位置立面图中A=200, L=400~600均分窗口, 但每边不得少于2只。

防火卷帘说明

1. 适用范围

本图集防火卷帘适用于民用建筑及工业建筑中防火分区的分隔。

2. 钢防火卷帘

钢防火卷帘系根据《钢制防火卷帘通用技术条件》GB14102-1993及相关企业标准设计制作,由帘板、导轨、座板、门楣、箱体、卷门机及控制箱所组成的能满足耐火极限和热辐射度的卷帘。

2.1 耐火极限: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

防火卷帘的耐火性能按GB/T7633进行试验耐火性能试验。从受火作用起到背火面隔热辐射强度超过临界热辐射强度规定值时止,或发生帘板面窜火时止,这段时间称为耐火极限。用以决定钢质防火卷帘的耐火性能等级。地下车库出入口处可以采用耐火极限为1.2h的防火卷帘。

2.2 材料与配件

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。支座应采用普通碳素结构钢或灰口铸铁。帘板厚度1.2~2.0、掩埋型导轨厚1.5~2.5、外露型导轨厚度 ≥ 3.0 。

钢防火卷帘的钢构件除镀锌件或制造时已按规定做了防护涂料的

3. 特级防火卷帘

3.1 特级防火卷帘指用钢质材料或无机纤维材料做帘面,采用钢-无机布等不同的组合方式,用钢质材料做导轨、座板、夹板、门楣、箱体等,并配以卷门机和控制箱所组成的能符合耐火完整性、隔热性和防烟性能要求的卷帘。

3.2 特级防火卷帘耐火时间 $\geq 3.0h$ 。

3.3 无机布基帘面由防火布、硅酸铝毡及装饰布等组成。其装饰布或基布应能在-20℃的条件下不发生脆裂并应保持一定的弹性;在+50℃条件下不应粘连。帘面所用的各类纺织物常温下的断裂强度经向不应低于600N/5cm,纬向不应低于300N/5cm;耐高温试验后基布的残余断裂强度不应低于常温下断裂强度的20%。帘面纵向设有中距 < 1500 的高温不锈钢丝绳,以承载帘面的自重;横向设有中距300~600的钢带,其两端折弯并伸入导轨以保证其侧向刚度。

4. 技术性能指标

4.1 钢制防火卷帘的耐风压性能:在规定荷载下其导轨与卷帘不脱落,同时其变形挠度须符合下表要求。

强度类别代号	耐风压(Pa)	挠度					
		B $\leq 2.5m$	B=3.0m	B=4.0m	B=5.0m	B=6.0m	B $> 6.0m$
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

4.2 防烟性能: 在压差为20Pa时漏烟量应小于 $0.2\text{m}^3/\text{m}^2\cdot\text{min}$ 。

4.3 启闭速度: 2000-9000 (mm/min)

5. 安装要求: 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。墙体应为钢筋混凝土墙, 如系轻型砌块墙则在洞口两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块。其他要求均见GB14102-93。

6. 门型及代号

本图集的防火卷帘按材料构造分为钢防火卷帘、复合型钢防火卷帘、无机布基防火卷帘。按开启方式分为垂直防火卷帘、侧向防火卷帘、水平防火卷帘。

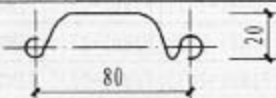
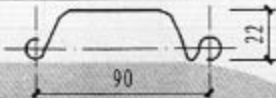
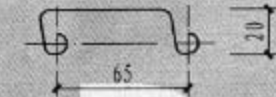
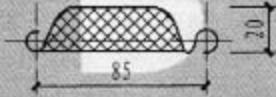
防火卷帘必须配用防火卷帘门机或普通卷帘门机加隔热保护装置。设在走道上的防火卷帘, 应在卷帘的两侧设置启闭装置, 并具有自动、手动、机械控制的功能。

6.1 防火卷帘的代号

FJM01	钢防火卷帘
FJM02	无机布基防火卷帘
FJM03	双轨无机布基特级防火卷帘
FJM04	侧向钢防火卷帘
FJM05	水平钢防火卷帘

注: 防火卷帘的耐火极限、安装形式由工程设计者根据规范确定, 并标明。

钢防火卷帘帘板型式与规格

名 称	帘 板 型 式	板 厚		
单片卷帘		1.0	1.2	1.5
单片卷帘			1.2	1.5
单片卷帘		0.8	1.0	1.2
复 合 夹芯卷帘		1.0	1.2	
复 合 夹芯卷帘		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. 帘板为镀锌钢板或彩钢板。
4. 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。

FJM01 防火卷帘选用表

H \ W	2100	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400
2400	FJM01-2124	FJM01-2424	FJM01-2724	FJM01-3024	FJM01-3324	FJM01-3624	FJM01-3924	FJM01-4224	FJM01-4524	FJM01-4824	FJM01-5124	FJM01-5424
2700	FJM01-2127	FJM01-2427	FJM01-2727	FJM01-3027	FJM01-3327	FJM01-3627	FJM01-3927	FJM01-4227	FJM01-4527	FJM01-4827	FJM01-5127	FJM01-5427
3000	FJM01-2130	FJM01-2430	FJM01-2730	FJM01-3030	FJM01-3330	FJM01-3630	FJM01-3930	FJM01-4230	FJM01-4530	FJM01-4830	FJM01-5130	FJM01-5430
3300	FJM01-2133	FJM01-2433	FJM01-2733	FJM01-3033	FJM01-3333	FJM01-3633	FJM01-3933	FJM01-4233	FJM01-4533	FJM01-4833	FJM01-5133	FJM01-5433
3600						FJM01-3636	FJM01-3936	FJM01-4236	FJM01-4536	FJM01-4836	FJM01-5136	FJM01-5436
3900									FJM01-4539	FJM01-4839	FJM01-5139	FJM01-5439
4200											FJM01-5142	FJM01-5442
H \ W	5700	6000	6300	6600	6900	7200	7500	7800	8100	8400	8700	9000
2400	FJM01-5724	FJM01-6024	FJM01-6324	FJM01-6624	FJM01-6924	FJM01-7224	FJM01-7524	FJM01-7824	FJM01-8124	FJM01-8424	FJM01-8724	FJM01-9024
2700	FJM01-5727	FJM01-6027	FJM01-6327	FJM01-6627	FJM01-6927	FJM01-7227	FJM01-7527	FJM01-7827	FJM01-8127	FJM01-8427	FJM01-8727	FJM01-9027
3000	FJM01-5730	FJM01-6030	FJM01-6330	FJM01-6630	FJM01-6930	FJM01-7230	FJM01-7530	FJM01-7830	FJM01-8130	FJM01-8430	FJM01-8730	FJM01-9030
3300	FJM01-5733	FJM01-6033	FJM01-6333	FJM01-6633	FJM01-6933	FJM01-7233	FJM01-7533	FJM01-7833	FJM01-8133	FJM01-8433	FJM01-8733	FJM01-9033
3600	FJM01-5736	FJM01-6036	FJM01-6336	FJM01-6636	FJM01-6936	FJM01-7236	FJM01-7536	FJM01-7836	FJM01-8136	FJM01-8436	FJM01-8736	FJM01-9036
3900	FJM01-5739	FJM01-6039	FJM01-6339	FJM01-6639	FJM01-6939	FJM01-7239	FJM01-7539	FJM01-7839	FJM01-8139	FJM01-8439	FJM01-8739	FJM01-9039
4200	FJM01-5742	FJM01-6042	FJM01-6342	FJM01-6642	FJM01-6942	FJM01-7242	FJM01-7542	FJM01-7842	FJM01-8142	FJM01-8442	FJM01-8742	FJM01-9042
4500	FJM01-5745	FJM01-6045	FJM01-6345	FJM01-6645	FJM01-6945	FJM01-7245	FJM01-7545	FJM01-7845	FJM01-8145	FJM01-8445	FJM01-8745	FJM01-9045
4800	FJM01-5748	FJM01-6048	FJM01-6348	FJM01-6648	FJM01-6948	FJM01-7248	FJM01-7548	FJM01-7848	FJM01-8148	FJM01-8448	FJM01-8748	FJM01-9048
5100	FJM01-5751	FJM01-6051	FJM01-6351	FJM01-6651	FJM01-6951	FJM01-7251	FJM01-7551	FJM01-7851	FJM01-8151	FJM01-8451	FJM01-8751	FJM01-9051

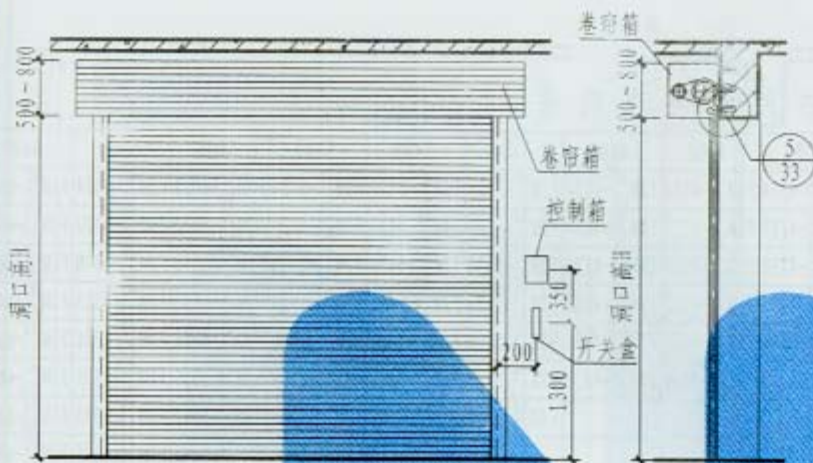
注: 1. FJM01洞口最大尺寸宽为9000, 高为6000。

2. 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。

3. 导轨规格尺寸见表

导轨规格尺寸表

洞口宽度W	导轨深度	挠度
$W \leq 3000$	75	45
$3000 < W \leq 5000$	80	50
$5000 < W \leq 9000$	90	60

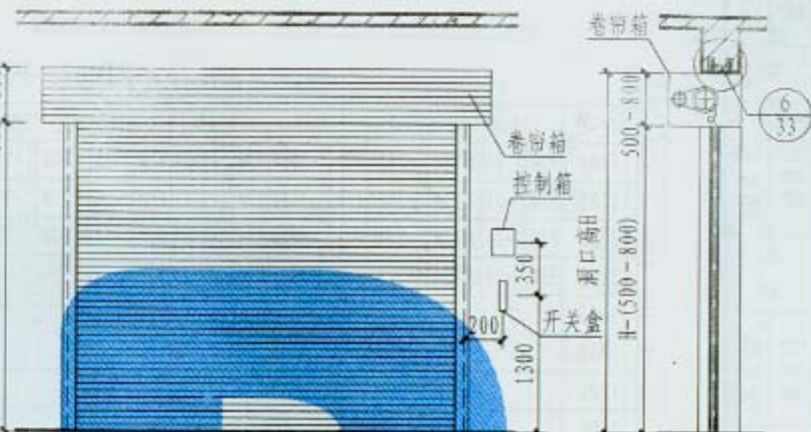


FJM01钢防火卷帘(侧装)立面图

1-1



FJM01(侧装)平面图



FJM01钢防火卷帘(中装)立面图

2-2



FJM01(中装)平面图

注: FJM01做为防火分区分隔时, 卷帘两侧应设置独立的闭式喷水系统
保护, 喷水延续时间不小于3.0h, 喷水强度不小于 $0.5\text{L/s}\cdot\text{m}$, 喷
头间距应为 $2\sim 2.5\text{m}$, 喷头距卷帘的距离宜为 0.5m 。

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FJM01平、立、剖面图

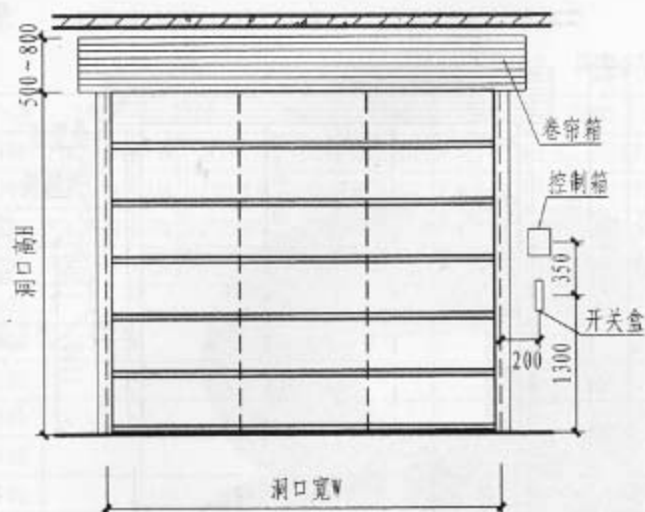
图集号	05J4-2
页次	27

FJM02、FJM03 防火卷帘选用表

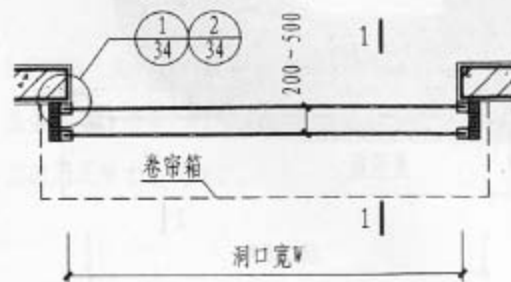
H \ W	2400	2700	3000	3300	3600	3900	4200	4500	4800	5100	5400	5700	6000	6300	6600
2400	FJM ₀₂ ⁰² -2424	FJM ₀₃ ⁰² -2724	FJM ₀₃ ⁰² -3024	FJM ₀₃ ⁰² -3324	FJM ₀₃ ⁰² -3624	FJM ₀₃ ⁰² -3924	FJM ₀₃ ⁰² -4224	FJM ₀₃ ⁰² -4524	FJM ₀₃ ⁰² -4824	FJM ₀₃ ⁰² -5124	FJM ₀₃ ⁰² -5424	FJM ₀₃ ⁰² -5724	FJM ₀₃ ⁰² -6024	FJM ₀₃ ⁰² -6324	FJM ₀₃ ⁰² -6624
2700	FJM ₀₃ ⁰² -2427	FJM ₀₃ ⁰² -2727	FJM ₀₃ ⁰² -3027	FJM ₀₃ ⁰² -3327	FJM ₀₃ ⁰² -3627	FJM ₀₃ ⁰² -3927	FJM ₀₃ ⁰² -4227	FJM ₀₃ ⁰² -4527	FJM ₀₃ ⁰² -4827	FJM ₀₃ ⁰² -5127	FJM ₀₃ ⁰² -5427	FJM ₀₃ ⁰² -5727	FJM ₀₃ ⁰² -6027	FJM ₀₃ ⁰² -6327	FJM ₀₃ ⁰² -6627
3000	FJM ₀₃ ⁰² -2430	FJM ₀₃ ⁰² -2730	FJM ₀₃ ⁰² -3030	FJM ₀₃ ⁰² -3330	FJM ₀₃ ⁰² -3630	FJM ₀₃ ⁰² -3930	FJM ₀₃ ⁰² -4230	FJM ₀₃ ⁰² -4530	FJM ₀₃ ⁰² -4830	FJM ₀₃ ⁰² -5130	FJM ₀₃ ⁰² -5430	FJM ₀₃ ⁰² -5730	FJM ₀₃ ⁰² -6030	FJM ₀₃ ⁰² -6330	FJM ₀₃ ⁰² -6630
3300	FJM ₀₃ ⁰² -2433	FJM ₀₃ ⁰² -2733	FJM ₀₃ ⁰² -3033	FJM ₀₃ ⁰² -3333	FJM ₀₃ ⁰² -3633	FJM ₀₃ ⁰² -3933	FJM ₀₃ ⁰² -4233	FJM ₀₃ ⁰² -4533	FJM ₀₃ ⁰² -4833	FJM ₀₃ ⁰² -5133	FJM ₀₃ ⁰² -5433	FJM ₀₃ ⁰² -5733	FJM ₀₃ ⁰² -6033	FJM ₀₃ ⁰² -6333	FJM ₀₃ ⁰² -6633
3600					FJM ₀₃ ⁰² -3636	FJM ₀₃ ⁰² -3936	FJM ₀₃ ⁰² -4236	FJM ₀₃ ⁰² -4536	FJM ₀₃ ⁰² -4836	FJM ₀₃ ⁰² -5136	FJM ₀₃ ⁰² -5436	FJM ₀₃ ⁰² -5736	FJM ₀₃ ⁰² -6036	FJM ₀₃ ⁰² -6336	FJM ₀₃ ⁰² -6636
3900								FJM ₀₃ ⁰² -4539	FJM ₀₃ ⁰² -4839	FJM ₀₃ ⁰² -5139	FJM ₀₃ ⁰² -5439	FJM ₀₃ ⁰² -5739	FJM ₀₃ ⁰² -6039	FJM ₀₃ ⁰² -6339	FJM ₀₃ ⁰² -6639
4200										FJM ₀₃ ⁰² -5142	FJM ₀₃ ⁰² -5442	FJM ₀₃ ⁰² -5742	FJM ₀₃ ⁰² -6042	FJM ₀₃ ⁰² -6342	FJM ₀₃ ⁰² -6642
4500												FJM ₀₃ ⁰² -5745	FJM ₀₃ ⁰² -6045	FJM ₀₃ ⁰² -6345	FJM ₀₃ ⁰² -6645
4800														FJM ₀₃ ⁰² -6048	FJM ₀₃ ⁰² -6348
5100														FJM ₀₃ ⁰² -6051	FJM ₀₃ ⁰² -6351
5400														FJM ₀₃ ⁰² -6354	FJM ₀₃ ⁰² -6654
5700														FJM ₀₃ ⁰² -6357	FJM ₀₃ ⁰² -6657
6000															FJM ₀₃ ⁰² -6660

注: 1. FJM02 无机布基防火卷帘, 无机布基帘面由防火布、硅酸铝毡及装饰布等组成。FJM02做为防火分区分隔时, 卷帘两侧应设置独立的闭式喷水系统保护。

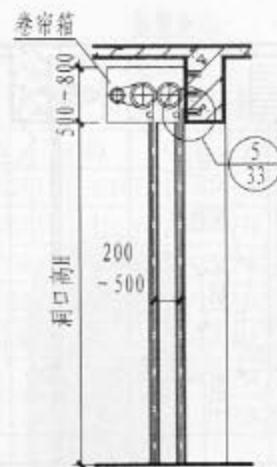
2. FJM03 双轨无机布基特级防火卷帘是由两道防火卷帘组成, 其中间间隔为200~500, 该空气层增强了卷帘的防火隔热性能。该卷帘不需要水幕保护, 即可达到规范规定的防火技术要求。



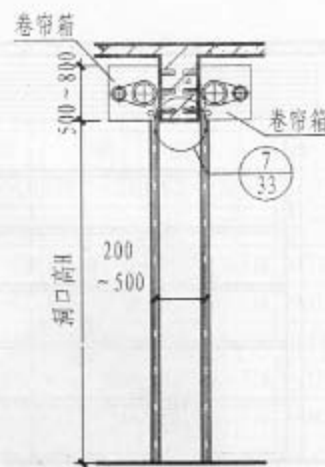
FJM03双轨无机布基特级防火卷帘立面图



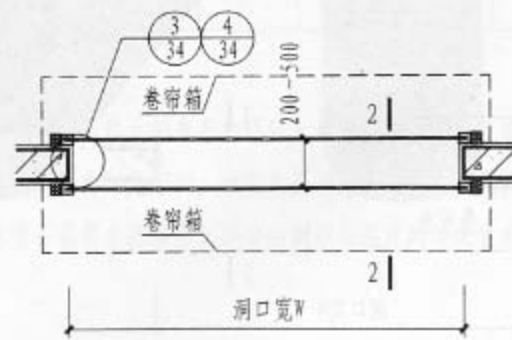
FJM03(侧装)平面图



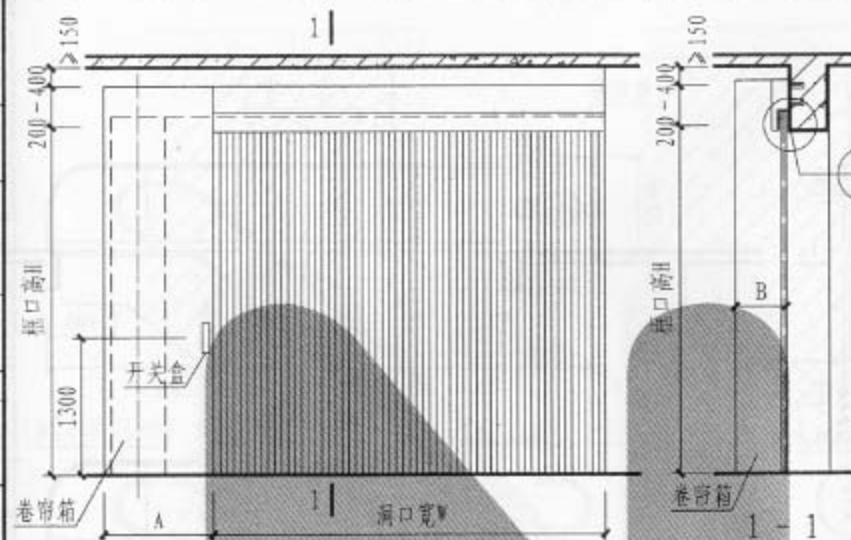
1-1



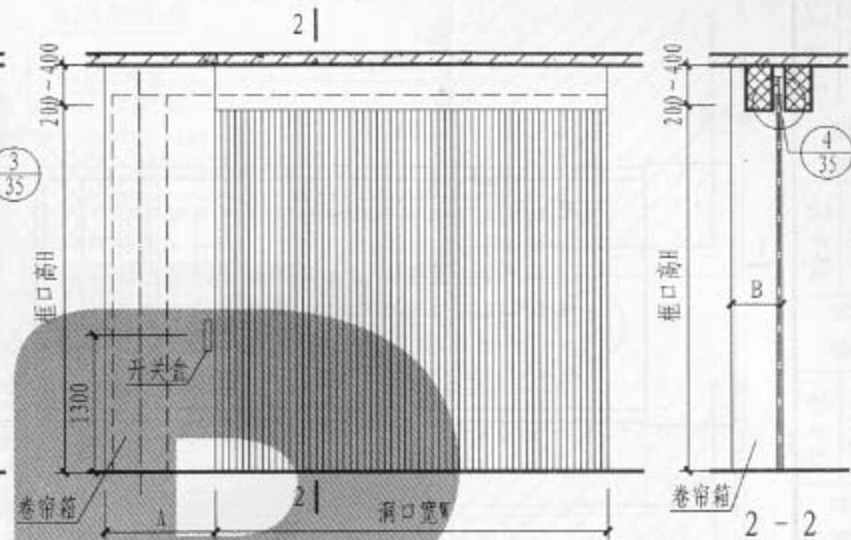
2-2



FJM03(中装)平面图



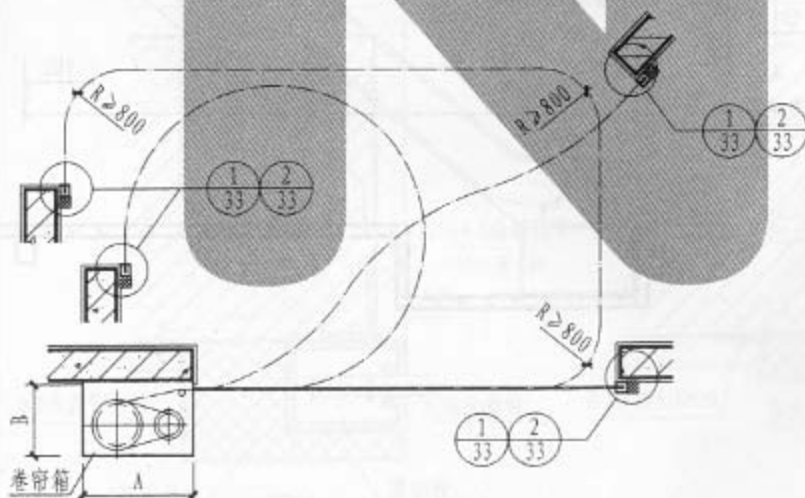
FJM04侧向钢防火卷帘(梁下)立面图



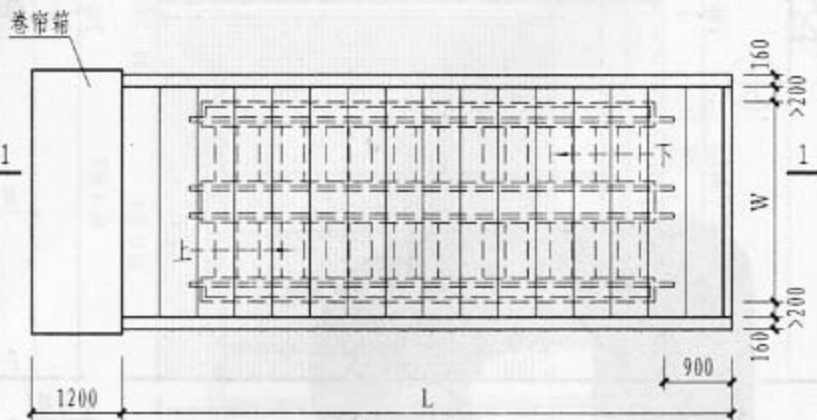
FJM04侧向钢防火卷帘(板下)立面图

- 注: 1. FJM04 侧向钢防火卷帘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。
2. 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。洞口最大尺寸宽为40000, 高为6000, 为缩短启闭时间, 洞口宽度宜 ≤ 24000 , 当洞口宽度 > 24000 时, 应优先选用两樘对开的卷帘。

洞口宽度W	卷帘箱长度A	卷帘箱宽度B
8000	1100	900
16000	1300	1100
24000	1500	1200
32000	1700	1400
40000	2000	1600



FJM04侧向钢防火卷帘平面图



FJM05水平钢防火卷帘平面图

注: 1. FJM05 水平钢防火卷帘适用于自动扶梯或其他水平洞口的水平防火隔断。可减少隔断面积, 节省工程造价。

2. 技术性能指标

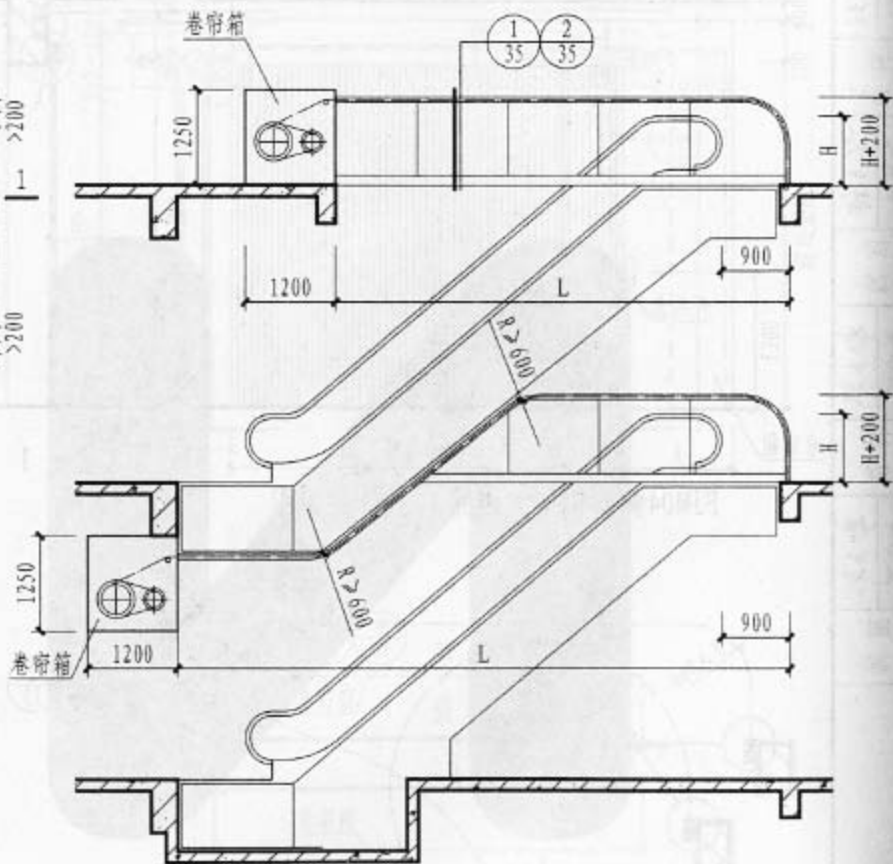
最大洞口宽度: ≤ 5000

最大洞口长度: ≤ 16000

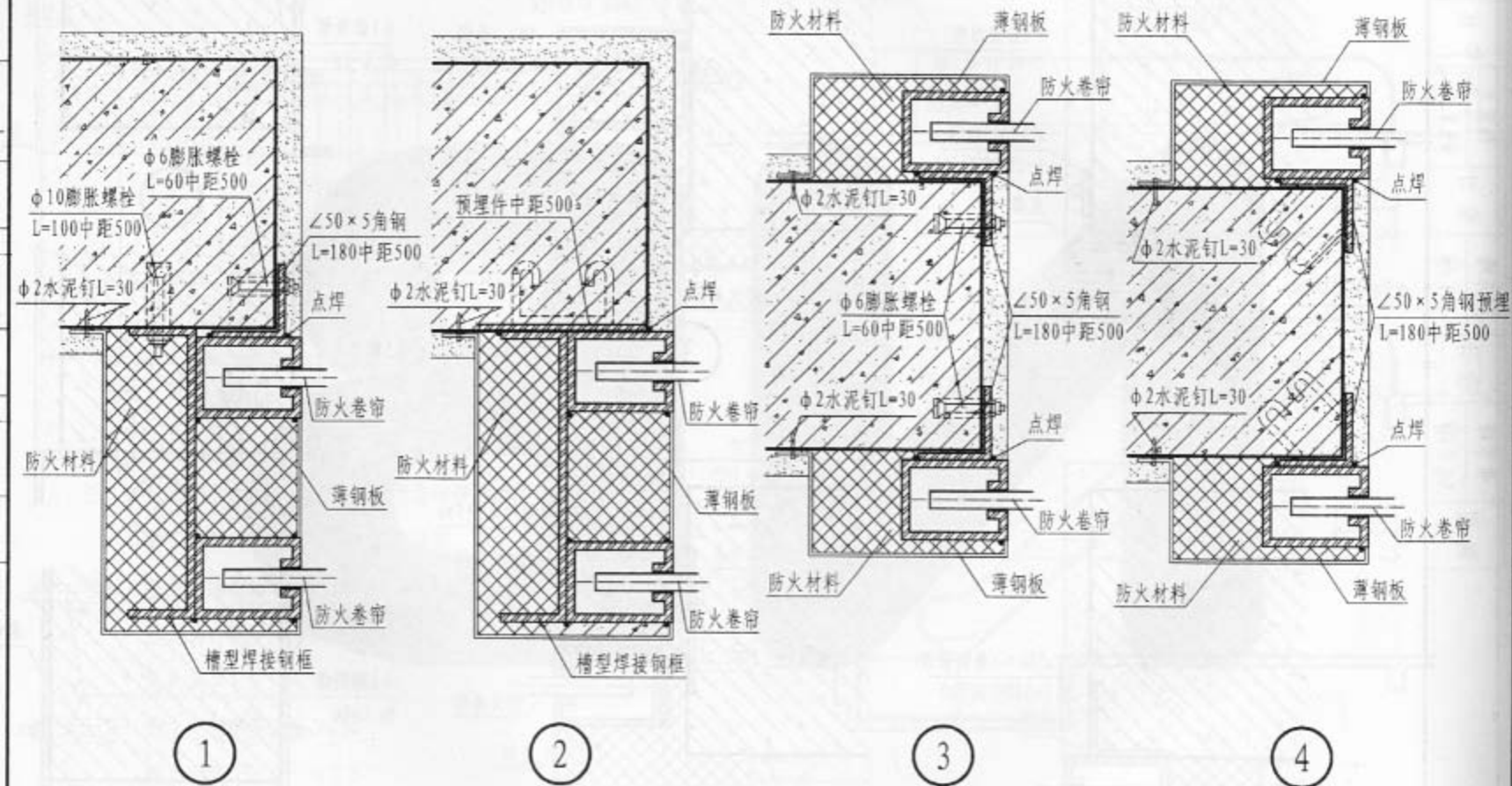
最小弯曲半径: $R \geq 600$

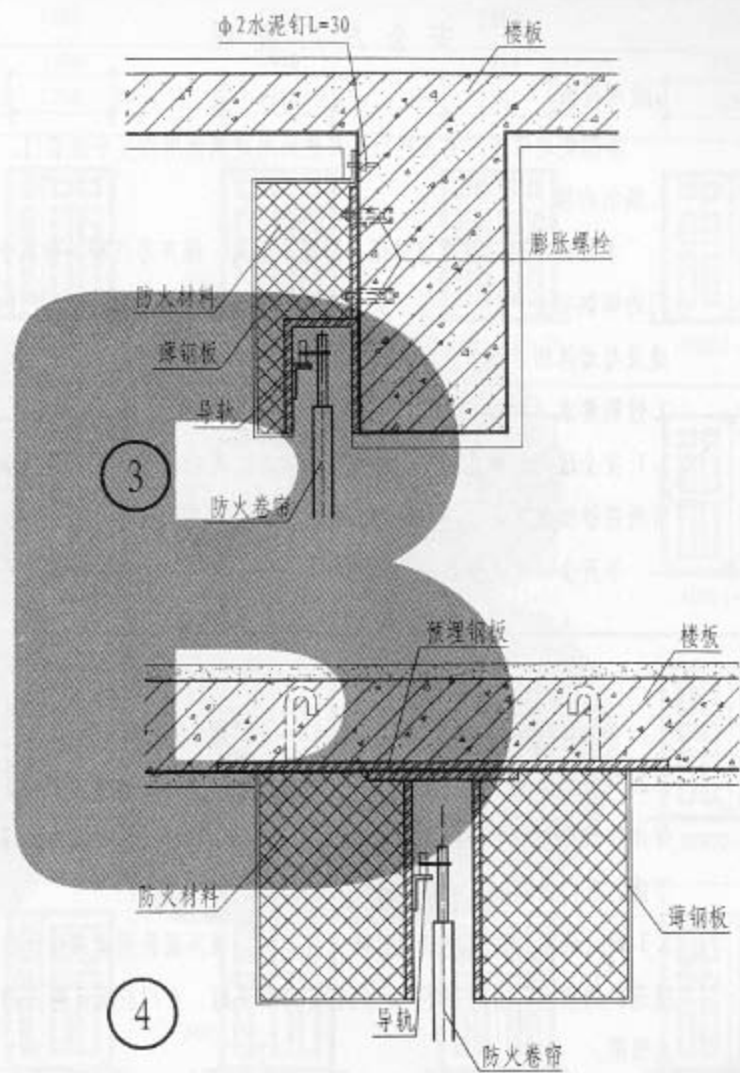
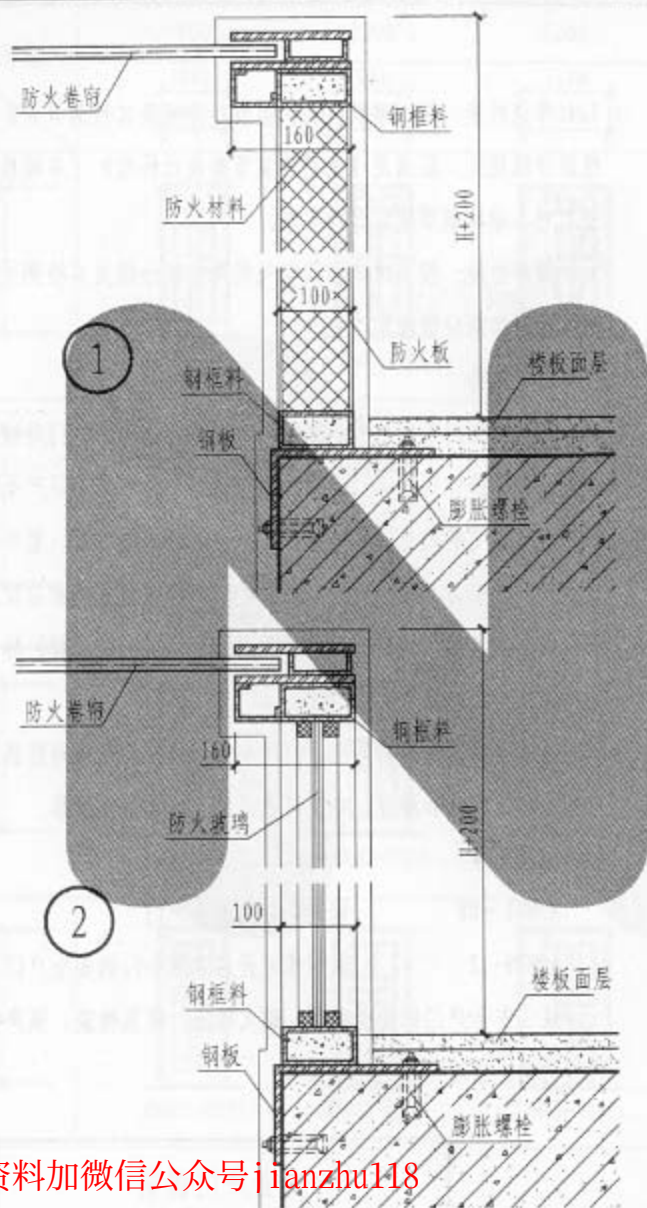
耐火极限 (h): > 3.0

3. L 为扶梯长, W 为扶梯宽度, H 为扶梯扶手高度。



1-1





安全户门说明

1. 适用范围

本图集适用于住宅入户门及其他民用建筑使用的安全防盗门。

2. 编制内容

本图集所列门型是将保温、防盗、防火、隔声等几种功能集于一门的钢制安全户门，开启方式为平开，内容为门的立面选型，门的构造及与墙体的连接节点详图。

3. 性能要求

3.1 安全级别：防盗安全门在规定的破坏工具作用下，按其最薄弱环节所能够抵抗非正常开启的净工作时间的长短分级如下

平开全封闭式防盗安全门 平开带可开启通风小门式防盗安全门

A级：15min

A级：10min

B级：30min

B级：20min

C级：45min

C级：30min

3.2 防破坏性能：防盗安全门在普通机械手工工具、便携式电动工具等相互配合作用下，在A级、B级、C级规定的净工作时间内，应该不能打开门或切割出一个穿透门体的 615cm^2 的开口。

3.3 耐火极限：按《建筑设计防火规范》、《高层民用建筑设计防火规范》的规定，当对住宅入户门有防火要求时，户门应满足防火门耐火极限。

3.4 保温性能：按《建筑外门保温性能分级及其检测方法》表1保温性能分级规定。应满足《民用建筑节能设计标准》（采暖居住建筑部分）对各地建筑节能设计的要求。

3.5 隔声性能：按《建筑用门空气隔声性能分级及其检测方法》表1空气隔声性能分级规定。

4. 材料与配件

防盗安全门钢门框的制作钢板厚度不应小于2，门扇锁具安装部位应有加强防钻钢板。门铰链在开启过程中，门体不应产生倾斜；门铰链应能承受使用普通机械手工工具对铰链实施冲击、撬切破坏时传给铰链的冲击力和撬拔力矩，在规定时间内铰链应无断裂现象。防盗安全门上安装的门锁最低应符合GA/T 73《机械防盗锁》标准中A级别机械防盗锁的技术要求。

所有金属构件表面均应进行防腐蚀处理，漆层应有防锈底漆。漆层表面应无气泡和漆渣，电镀层色泽均匀，镀层无脱落。

5. 门型及代号

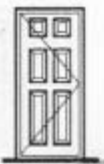
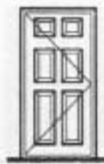
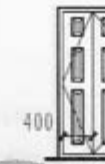
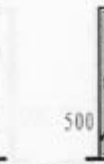
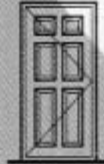
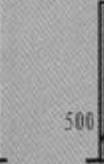
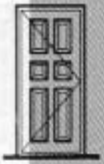
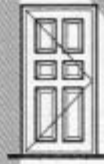
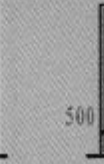
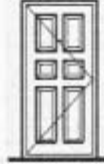
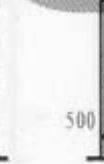
AHM01-08

钢制全封闭安全户门

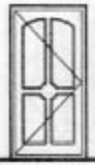
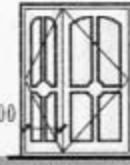
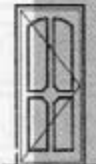
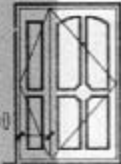
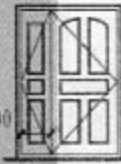
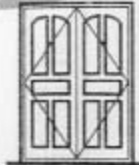
AHM09-12

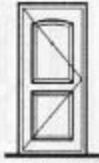
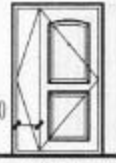
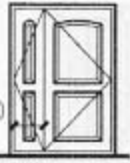
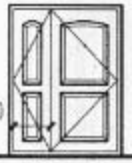
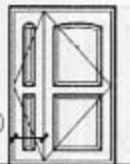
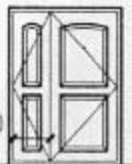
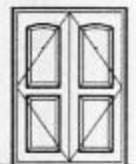
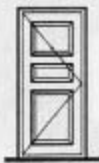
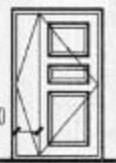
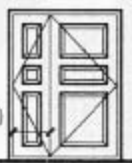
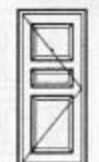
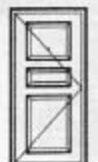
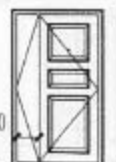
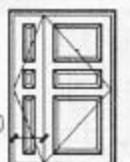
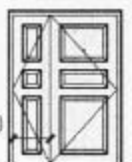
钢制带可开启通风小门的安全户门

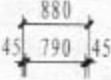
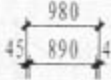
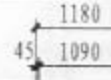
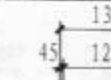
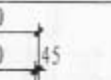
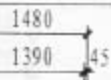
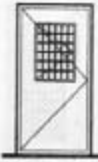
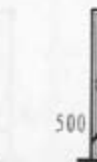
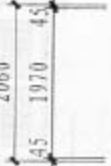
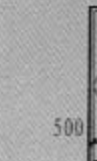
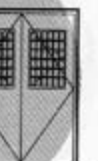
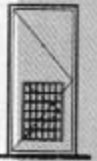
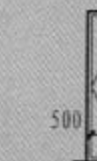
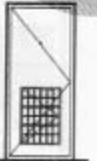
注：安全户门的安全级别、耐火极限、保温性能、隔声性能由工程设计者根据规范确定，并标明。

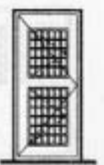
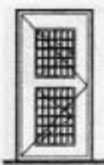
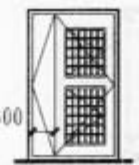
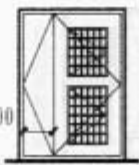
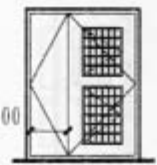
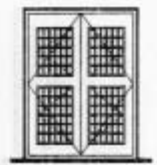
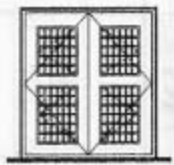
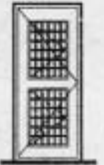
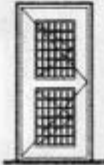
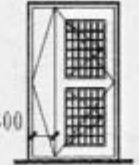
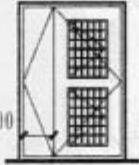
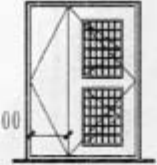
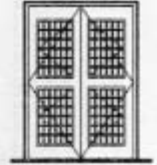
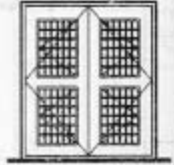
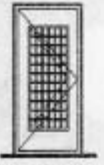
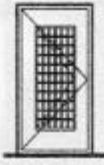
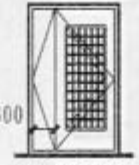
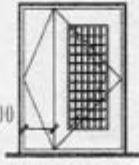
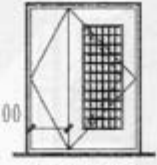
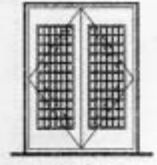
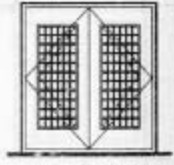
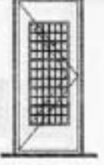
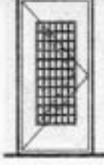
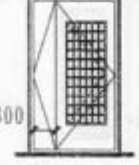
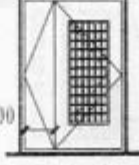
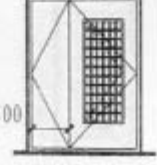
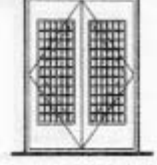
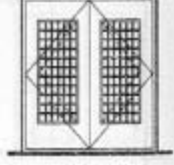
洞宽 洞高		900	1000	1200	1400	1500	1500	1800
		880 45 790 45	980 45 890 45	1180 45 1090 45	1380 45 1290 45	1480 45 1390 45	1480 45 1390 45	1780 45 1690 45
2000	1960 45 1870 45	 AHM01-0920	 AHM01-1020	 300 AHM01-1220	 400 AHM01-1420	 500 AHM01-1520	 AHM01-1520	 AHM01-1820
2100	2060 45 1970 45	 AHM01-0921	 AHM01-1021	 300 AHM01-1221	 400 AHM01-1421	 500 AHM01-1521	 AHM01-1521	 AHM01-1821
2000	1960 45 1870 45	 AHM02-0920	 AHM02-1020	 300 AHM02-1220	 400 AHM02-1420	 500 AHM02-1520	 AHM02-1520	 AHM02-1820
2100	2060 45 1970 45	 AHM02-0921	 AHM02-1021	 300 AHM02-1221	 400 AHM02-1421	 500 AHM02-1521	 AHM02-1521	 AHM02-1821

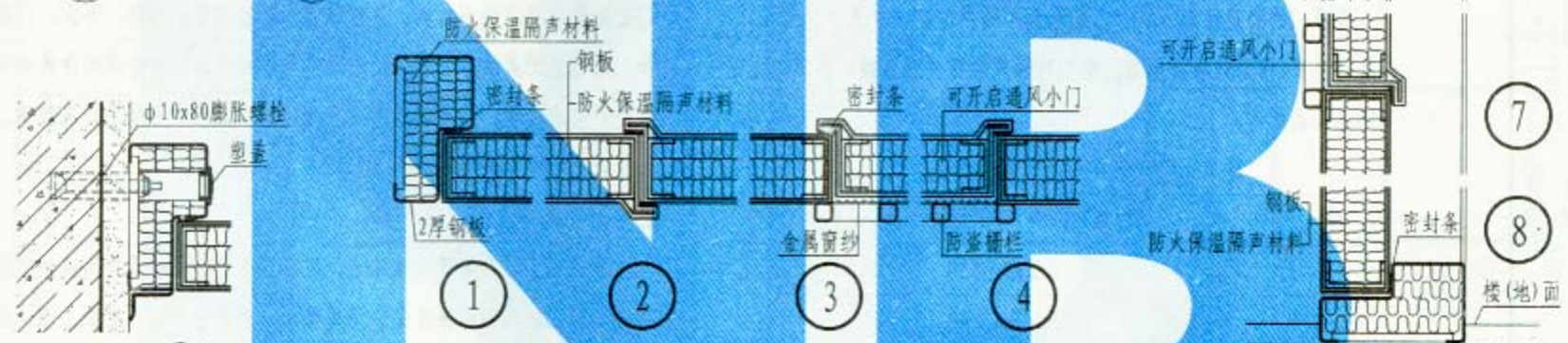
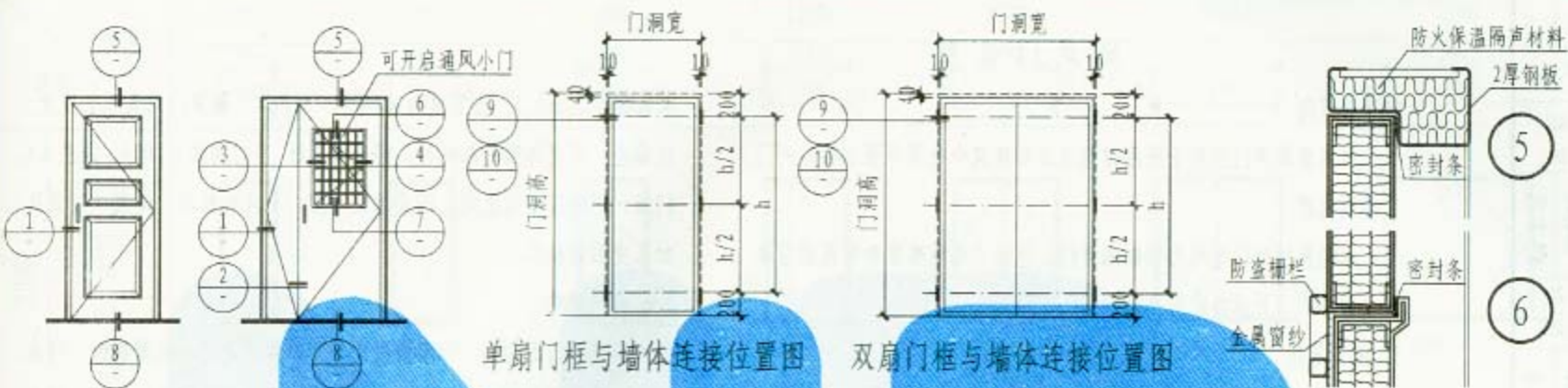
洞高 \ 洞宽		900	1000	1200	1400	1500	1500	1800
2000		 AHM03-0920	 AHM03-1020	 AHM03-1220	 AHM03-1420	 AHM03-1520	 AHM03-15:20	 AHM03-1820
		 AHM03-0921	 AHM03-1021	 AHM03-1221	 AHM03-1421	 AHM03-1521	 AHM03-15:21	 AHM03-1821
2000		 AHM04-0920	 AHM04-1020	 AHM04-1220	 AHM04-1420	 AHM04-1520	 AHM04-15:20	 AHM04-1820
		 AHM04-0921	 AHM04-1021	 AHM04-1221	 AHM04-1421	 AHM04-1521	 AHM04-15:21	 AHM04-1821

洞宽 洞高		900	1000	1200	1400	1500	1500	1800
		880 45 790 45	980 45 890 45	1180 45 1090 45	1380 45 1290 45	1480 45 1390 45	1480 45 1390 45	1780 45 1690 45
2000	1900 45 1900 45	 AHM05-0920	 AHM05-1020	 AHM05-1220	 AHM05-1420	 AHM05-1520	 AHM05-1520	 AHM05-1820
2100	2090 45 2000 45	 AHM05-0921	 AHM05-1021	 AHM05-1221	 AHM05-1421	 AHM05-1521	 AHM05-1521	 AHM05-1821
2000	1900 45 1900 45	 AHM06-0920	 AHM06-1020	 AHM06-1220	 AHM06-1420	 AHM06-1520	 AHM06-1520	 AHM06-1820
2100	2090 45 2000 45	 AHM06-0921	 AHM06-1021	 AHM06-1221	 AHM06-1421	 AHM06-1521	 AHM06-1521	 AHM06-1821

洞宽 洞高		900	1000	1200	1400	1500	1500	1800
		880 790 45	980 890 45	1180 1090 45	1380 1290 45	1480 1390 45	1480 1390 45	1780 1690 45
2000	1960 1870 45	 AHM07-0920	 AHM07-1020	 AHM07-1220	 AHM07-1420	 AHM07-1520	 AHM07-15:20	 AHM07-1820
2100	2060 1970 45	 AHM07-0921	 AHM07-1021	 AHM07-1221	 AHM07-1421	 AHM07-1521	 AHM07-15:21	 AHM07-1821
2000	1960 1870 45	 AHM08-0920	 AHM08-1020	 AHM08-1220	 AHM08-1420	 AHM08-1520	 AHM08-15:20	 AHM08-1820
2100	2060 1970 45	 AHM08-0921	 AHM08-1021	 AHM08-1221	 AHM08-1421	 AHM08-1521	 AHM08-15:21	 AHM08-1821

洞宽 \ 洞高		900	1000	1200	1400	1500	1500	1800
								
2000		 AHM09-0920	 AHM09-1020	 AHM09-1220	 AHM09-1420	 AHM09-1520	 AHM09-15120	 AHM09-1820
		 AHM09-0921	 AHM09-1021	 AHM09-1221	 AHM09-1421	 AHM09-1521	 AHM09-15121	 AHM09-1821
2000		 AHM10-0920	 AHM10-1020	 AHM10-1220	 AHM10-1420	 AHM10-1520	 AHM10-15120	 AHM10-1820
		 AHM10-0921	 AHM10-1021	 AHM10-1221	 AHM10-1421	 AHM10-1521	 AHM10-15121	 AHM10-1821

洞宽 洞高		900	1000	1200	1400	1500	1500	1800
		880 45 790 45	980 45 890 45	1180 45 1090 45	1380 45 1290 45	1480 45 1390 45	1480 45 1390 45	1780 45 1690 45
2000	1960 45 1870 45	 AHM11-0920	 AHM11-1020	 AHM11-1220	 AHM11-1420	 AHM11-1520	 AHM11-1520	 AHM11-1820
	2060 45 1970 45	 AHM11-0921	 AHM11-1021	 AHM11-1221	 AHM11-1421	 AHM11-1521	 AHM11-1521	 AHM11-1821
2000	1960 45 1870 45	 AHM12-0920	 AHM12-1020	 AHM12-1220	 AHM12-1420	 AHM12-1520	 AHM12-1520	 AHM12-1820
	2060 45 1970 45	 AHM12-0921	 AHM12-1021	 AHM12-1221	 AHM12-1421	 AHM12-1521	 AHM12-1521	 AHM12-1821



注：1. 本图为参考详图，各生产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。

2. 连接适用墙体：
- (1) 钢筋混凝土墙
 - (2) 混凝土空心砌块墙（门两侧的空心砌块用混凝土填实，或做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）
 - (3) 烧结砖砌体墙
 - (4) 其他轻型隔墙（门两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）

隔声门说明

1. 适用范围

本图集隔声门适用于民用建筑及工业建筑中有隔声要求的房间门。

2. 编制内容

本图集所列门型均为钢制隔声门，包括不带观察窗和带观察窗两种立面形式。开启方式为平开门。

3. 隔声等级

隔声门的隔声性能等级以门的空气声隔声性能，单值评价量—计权隔声量 R_w 作为分级指标值。空气声隔声性能共分六级，各级的上、下限值如表所示：

建筑用门空气声隔声性能分级表

等 级	计权隔声量 R_w 值范围 (dB)
I	$R_w \geq 45$
II	$45 > R_w \geq 40$
III	$40 > R_w \geq 35$
IV	$35 > R_w \geq 30$
V	$30 > R_w \geq 25$
VI	$25 > R_w \geq 20$

4. 技术要求

隔声门的门扇、门框的宽度、高度允许偏差应符合规定：当宽度

≤ 1500 时， ± 1.5 ；当宽度 > 1500 时， $\pm \frac{3.0}{1.0}$ 。隔声门对角线长度允许偏差：当对角线 ≤ 2000 时，偏差 ≤ 3.0 ；当对角线 > 2000 ，偏差 ≤ 4 。门扇、门框应密封良好，四角组装牢固，不应有松动、锤痕、破裂及加工变形等缺陷。

5. 材料和配件

钢隔声门的门框、门扇面板及其加固件应采用冷轧薄钢板。门扇、门框截面内填满隔声材料。各种零部件安装位置应准确、牢固，门扇及门锁应启闭灵活，应满足使用及安全等要求。所有金属构件表面均应进行防腐处理。门上窗根据隔声性能等级要求，可采用单层玻璃、双层玻璃、中空玻璃等。

6. 安装要求

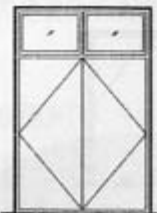
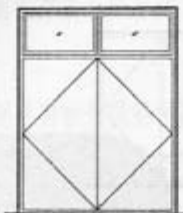
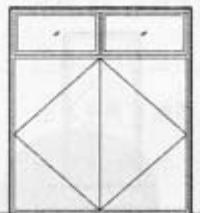
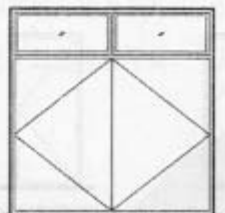
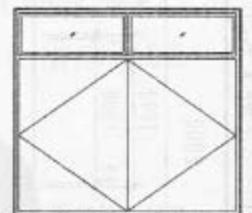
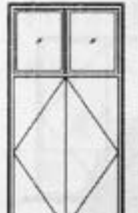
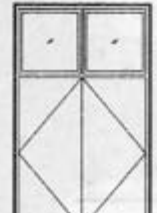
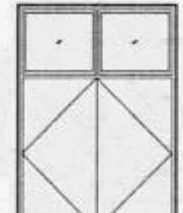
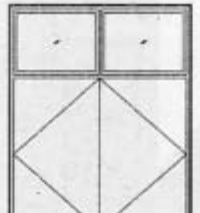
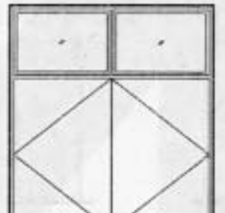
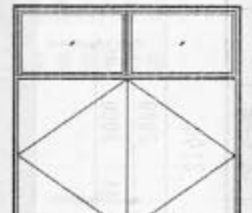
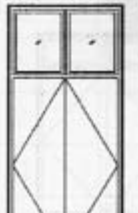
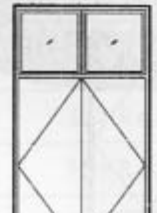
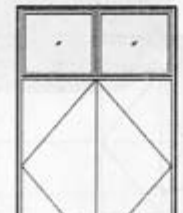
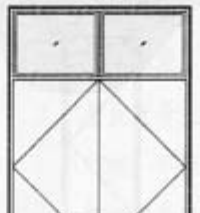
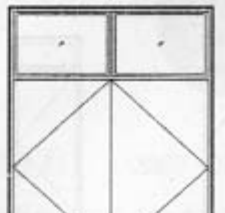
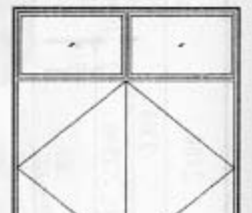
隔声门安装在建筑物墙体上，应与墙内埋件焊接连接，或用膨胀螺栓安装，但其锚固强度必须满足要求。墙体应为钢筋混凝土墙，如系轻型砌块墙，则在洞口两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块。

7. 门型及代号

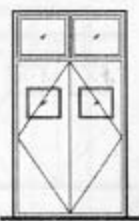
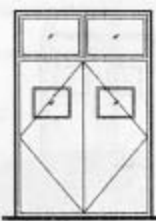
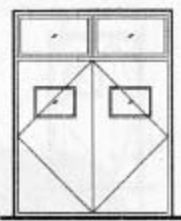
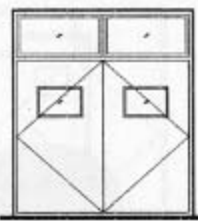
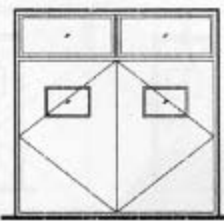
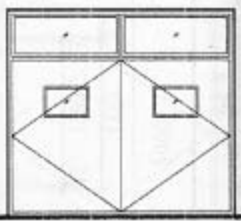
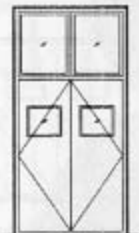
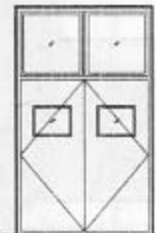
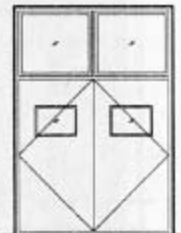
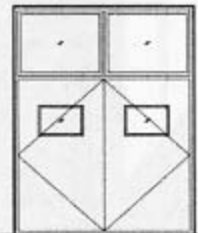
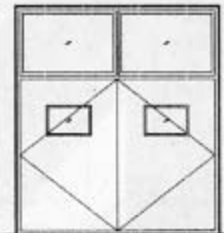
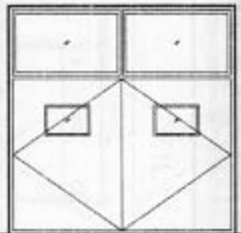
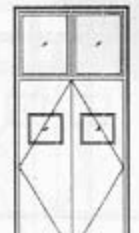
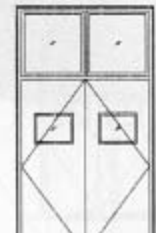
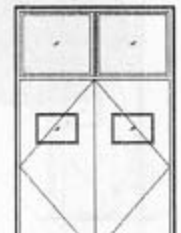
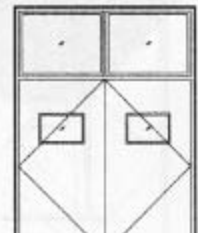
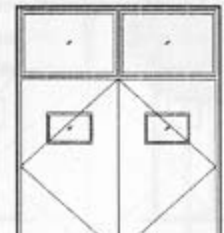
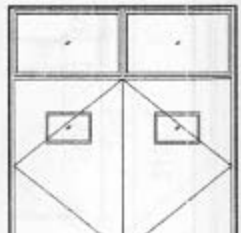
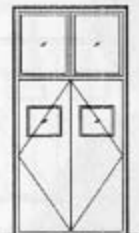
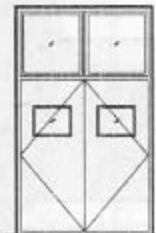
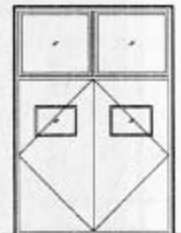
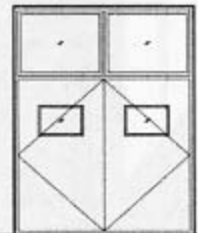
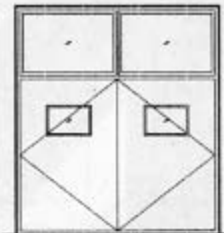
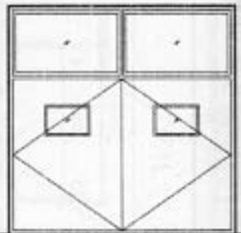
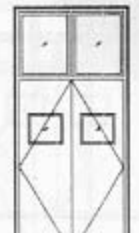
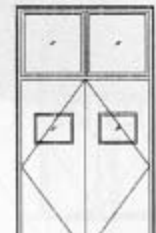
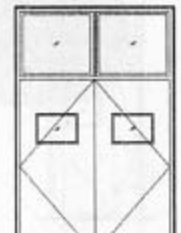
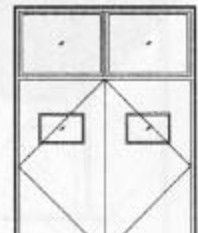
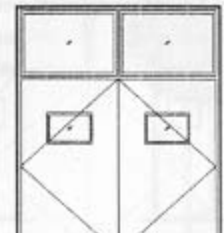
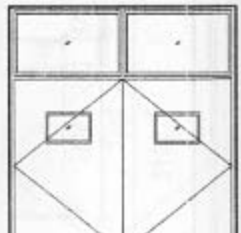
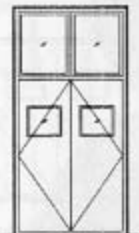
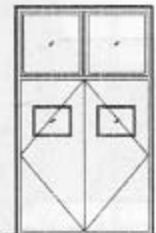
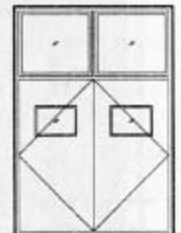
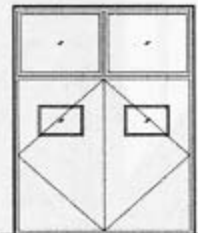
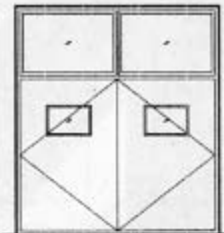
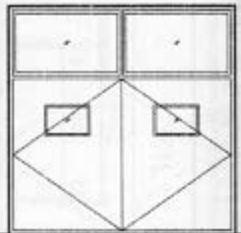
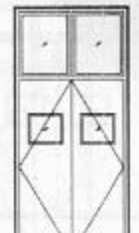
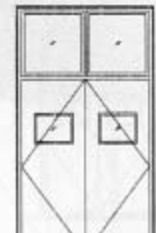
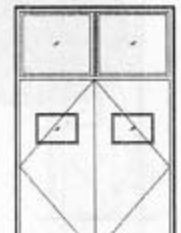
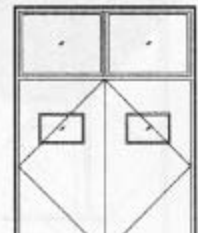
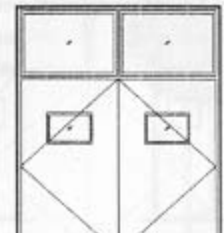
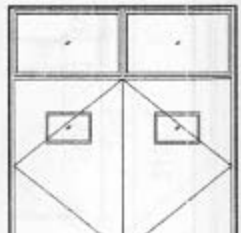
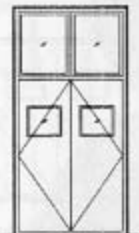
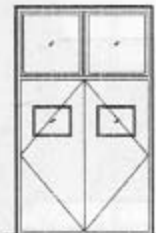
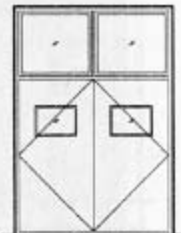
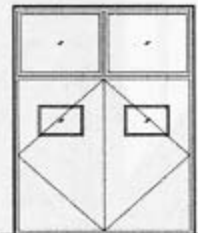
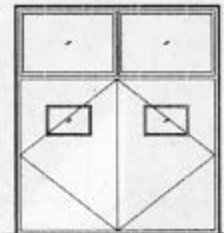
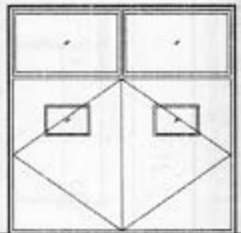
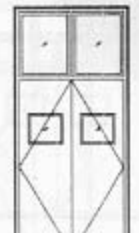
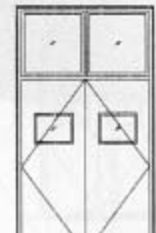
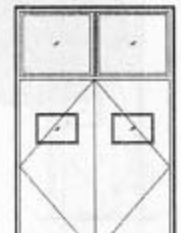
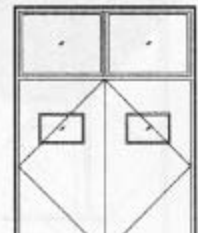
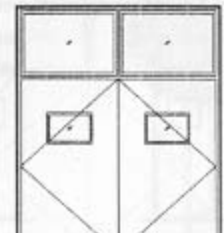
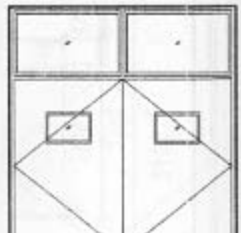
GSM01 不带观察窗隔声门 GSM02~03 带观察窗隔声门

注：隔声门的隔声性能等级由工程设计者确定，并标明。

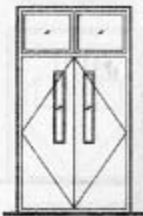
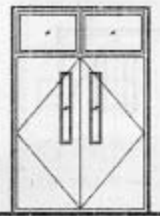
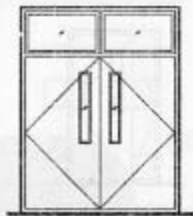
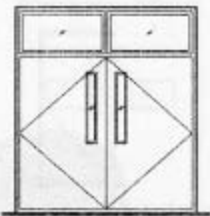
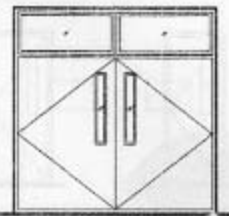
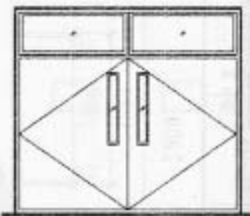
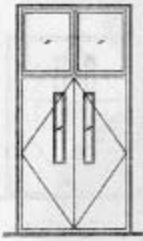
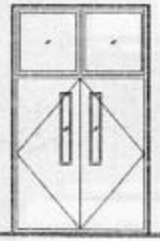
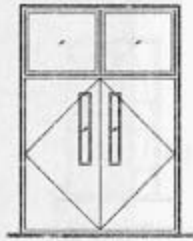
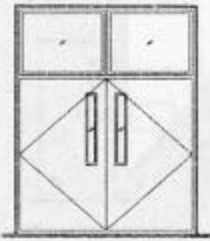
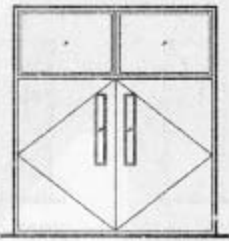
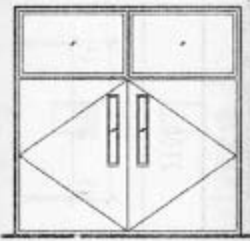
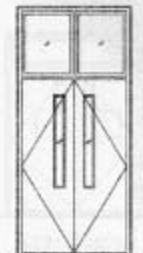
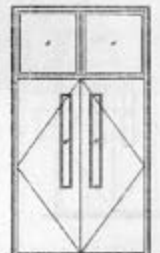
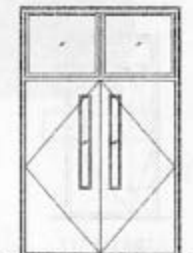
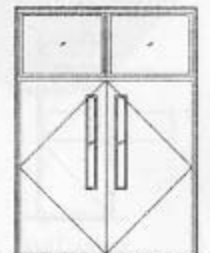
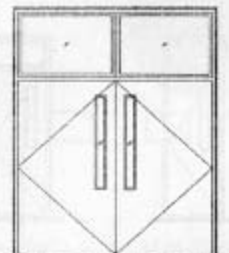
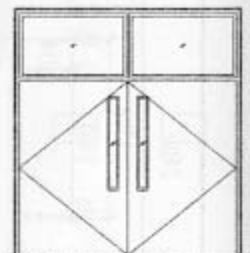
洞宽 洞高		800	900	1000	1200	1500	1800	2100
2000		 GSM01-0820	 GSM01-0920	 GSM01-1020	 GSM01-1220	 GSM01-1520	 GSM01-1820	 GSM01-2120
2100		 GSM01-0821	 GSM01-0921	 GSM01-1021	 GSM01-1221	 GSM01-1521	 GSM01-1821	 GSM01-2121
2400		 GSM01-0824	 GSM01-0924	 GSM01-1024	 GSM01-1224	 GSM01-1524	 GSM01-1824	 GSM01-2124

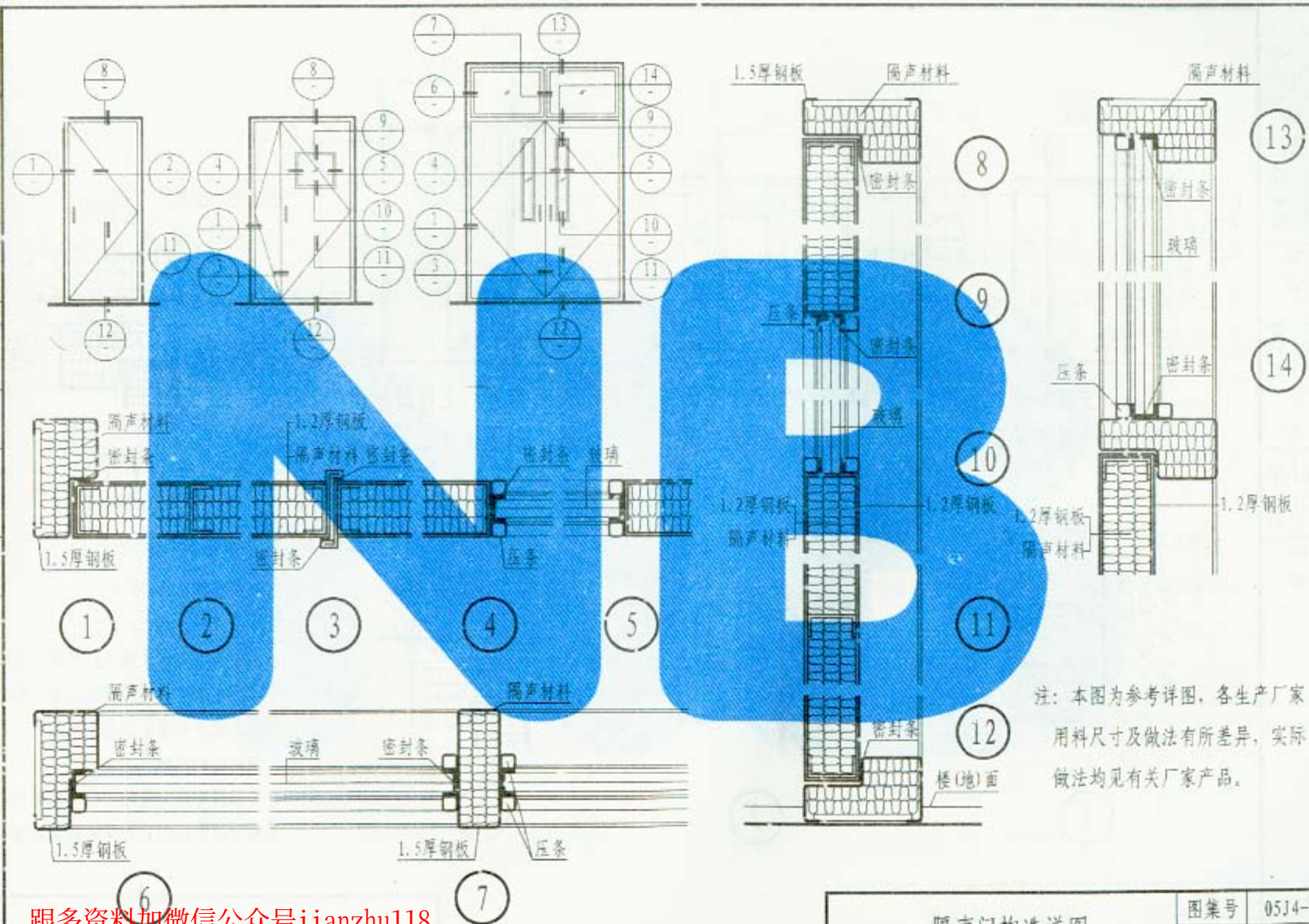
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		1480 1390	1780 1690	2080 1990	2380 2290	2680 2590	2980 2890
2700	2690 2000 45						
		GSM01-1527	GSM01-1827	GSM01-2127	GSM01-2427	GSM01-2727	GSM01-3027
3000	2990 2000 45						
		GSM01-1530	GSM01-1830	GSM01-2130	GSM01-2430	GSM01-2730	GSM01-3030
3300	3290 2300 45						
		GSM01-1533	GSM01-1833	GSM01-2133	GSM01-2433	GSM01-2733	GSM01-3033

洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
2000		 GSM02-0820	 GSM02-0920	 GSM02-1020	 GSM02-1220	 GSM02-1520	 GSM02-1820	 GSM02-2120
2100		 GSM02-0821	 GSM02-0921	 GSM02-1021	 GSM02-1221	 GSM02-1521	 GSM02-1821	 GSM02-2121
2400		 GSM02-0824	 GSM02-0924	 GSM02-1024	 GSM02-1224	 GSM02-1524	 GSM02-1824	 GSM02-2124

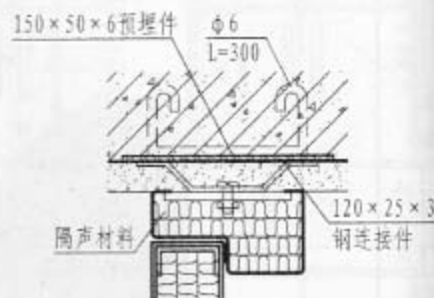
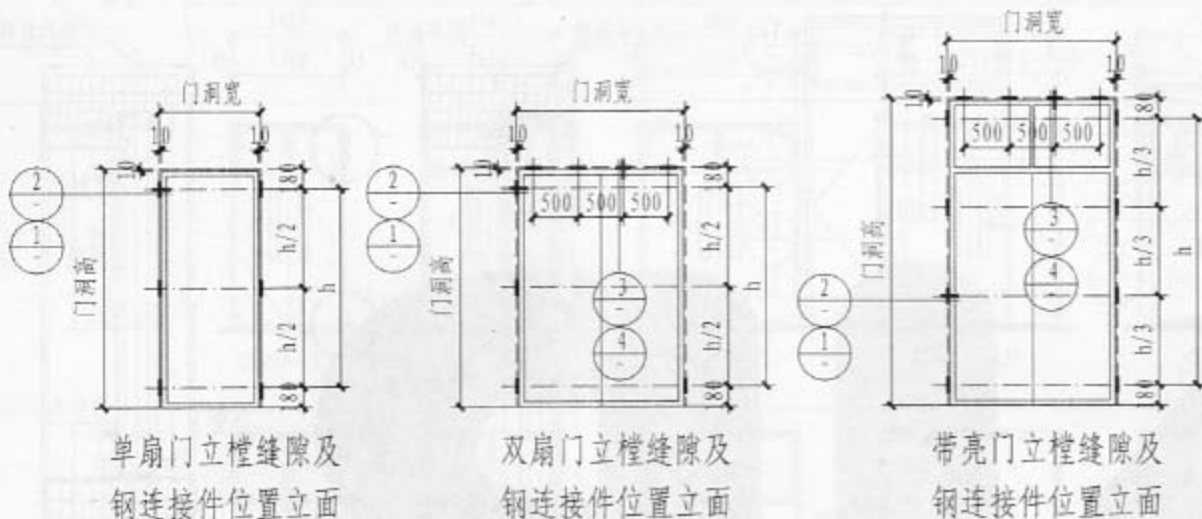
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2700	2690 2000 45 558						
		GSM02-1527	GSM02-1827	GSM02-2127	GSM02-2427	GSM02-2727	GSM02-3027
							
		GSM02-1530	GSM02-1830	GSM02-2130	GSM02-2430	GSM02-2730	GSM02-3030
							
		GSM02-1533	GSM02-1833	GSM02-2133	GSM02-2433	GSM02-2733	GSM02-3033
3000	2990 2000 45 858						
		GSM02-1530	GSM02-1830	GSM02-2130	GSM02-2430	GSM02-2730	GSM02-3030
							
		GSM02-1533	GSM02-1833	GSM02-2133	GSM02-2433	GSM02-2733	GSM02-3033
							
		GSM02-1530	GSM02-1830	GSM02-2130	GSM02-2430	GSM02-2730	GSM02-3030
3300	3290 2300 45 858						
		GSM02-1533	GSM02-1833	GSM02-2133	GSM02-2433	GSM02-2733	GSM02-3033
							
		GSM02-1530	GSM02-1830	GSM02-2130	GSM02-2430	GSM02-2730	GSM02-3030
							
		GSM02-1533	GSM02-1833	GSM02-2133	GSM02-2433	GSM02-2733	GSM02-3033

洞宽 洞高	800	900	1000	1200	1500	1800	2100
2000	 GSM03-0820	 GSM03-0920	 GSM03-1020	 GSM03-1220	 GSM03-1520	 GSM03-1820	 GSM03-2120
2100	 GSM03-0821	 GSM03-0921	 GSM03-1021	 GSM03-1221	 GSM03-1521	 GSM03-1821	 GSM03-2121
2400	 GSM03-0824	 GSM03-0924	 GSM03-1024	 GSM03-1224	 GSM03-1524	 GSM03-1824	 GSM03-2124

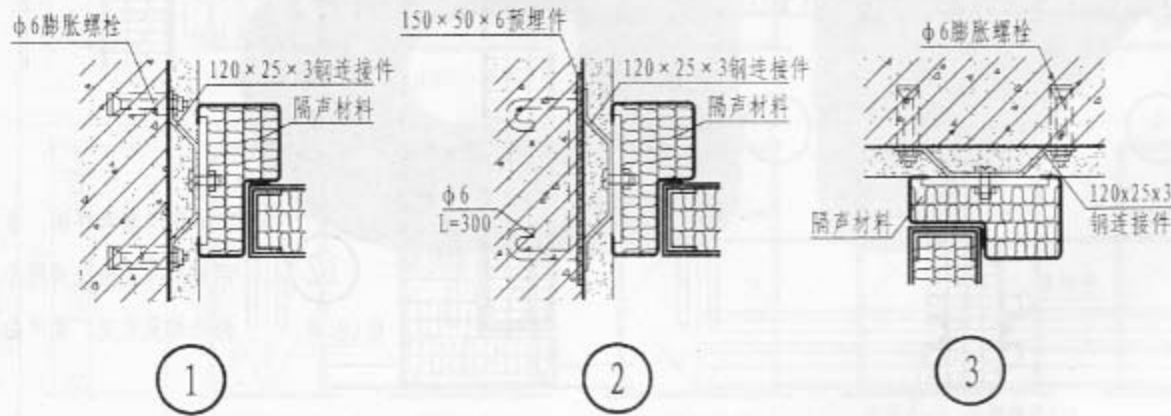
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洞高		1480 1390 45	1780 1690 45	2080 1990 45	2380 2290 45	2680 2590 45	2980 2890 45
		45	45	45	45	45	45
2700	2690 42 45 558						
		GSM03-1527	GSM03-1827	GSM03-2127	GSM03-2427	GSM03-2727	GSM03-3027
3000	2990 42 45 858						
		GSM03-1530	GSM03-1830	GSM03-2130	GSM03-2430	GSM03-2730	GSM03-3030
3300	3290 42 45 858						
		GSM03-1533	GSM03-1833	GSM03-2133	GSM03-2433	GSM03-2733	GSM03-3033



注: 本图为参考详图, 各生产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。



4



注：适用墙体

1. 钢筋混凝土墙
2. 混凝土空心砌块墙（门两侧的空心砌块用混凝土填实，或做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）
3. 烧结砖砌体墙
4. 其他轻型防火隔墙（门两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块）

防 X 射线门说明

1. 适用范围

防 X 射线门适用于有 x 射线防护要求的房间。如：医院中诊断 X 射线机、C T 扫描机等；科研、工业 X 射线无损检测设备机房等。医院伽玛刀、钴 60 治疗机及工业 γ 射线探伤等具有 γ 射线源的建筑，可根据计算参照使用。

2. 编制内容

本图集所列防 X 射线门门型为平开形式。内容为门的立面选型，门的构造及与墙体的连接节点详图。

3. 材料与配件

3.1 防 X 射线门防护材料采用铅板，厚度为 1~8。铅板厚度 1~3 时为木门，铅板厚度 4~8 时为钢制门。防 X 射线门的铅板、铅玻璃厚度由

工程设计者经过计算确定，并在图纸中标明。

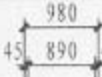
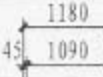
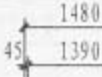
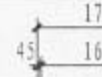
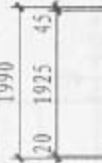
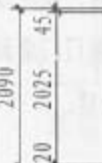
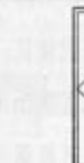
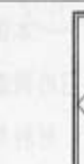
3.2 木门木材选用一、二等红白松木或材质相似的木材，须经过常规干燥处理，其含水率不应大于当地的平衡含水率。钢制门门扇面板采用 1.5 冷轧钢板。所有金属构件表面均应进行防腐蚀处理。

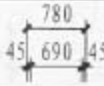
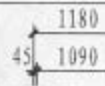
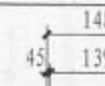
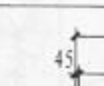
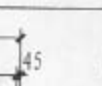
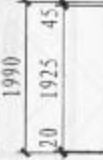
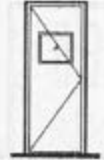
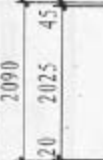
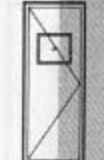
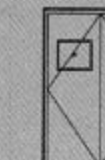
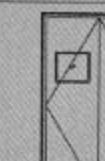
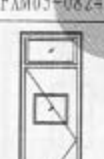
4. 安装

防 X 射线门安装，应与墙内埋件焊接连接或用膨胀螺栓安装，墙体应为钢筋混凝土墙和烧结砖砌体墙。

5. 门型及代号

FXM01~FXM03 防 X 射线木门 FXM04~FXM06 防 X 射线钢门

洞宽 洞高		800		900		1000		1200		1500		1800		2100	
															
2000															
	FXM01-0820 FXM04-0820		FXM01-0920 FXM04-0920		FXM01-1020 FXM04-1020		FXM01-1220 FXM04-1220		FXM01-1520 FXM04-1520		FXM01-1820 FXM04-1820		FXM01-2120 FXM04-2120		
2100															
	FXM01-0821 FXM04-0821		FXM01-0921 FXM04-0921		FXM01-1021 FXM04-1021		FXM01-1221 FXM04-1221		FXM01-1521 FXM04-1521		FXM01-1821 FXM04-1821		FXM01-2121 FXM04-2121		
2400															
	FXM01-0824 FXM04-0824		FXM01-0924 FXM04-0924		FXM01-1024 FXM04-1024		FXM01-1224 FXM04-1224		FXM01-1524 FXM04-1524		FXM01-1824 FXM04-1824		FXM01-2124 FXM04-2124		
2400															
	FXM011-0824 FXM041-0824		FXM011-0924 FXM041-0924		FXM011-1024 FXM041-1024		FXM011-1224 FXM041-1224		FXM011-1524 FXM041-1524		FXM011-1824 FXM041-1824		FXM011-2124 FXM041-2124		

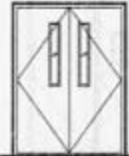
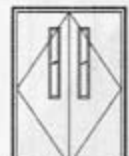
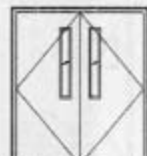
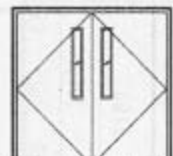
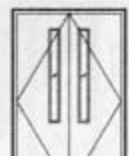
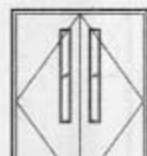
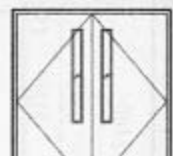
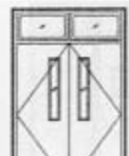
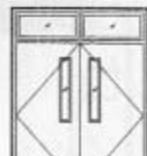
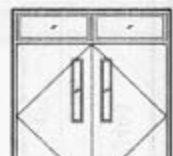
洞宽 洞高		洞宽						
		800	900	1000	1200	1500	1800	2100
								
2000								
		FXM02-0820 FXM05-0820	FXM02-0920 FXM05-0920	FXM02-1020 FXM05-1020	FXM02-1220 FXM05-1220	FXM02-1520 FXM05-1520	FXM02-1820 FXM05-1820	FXM02-2120 FXM05-2120
2100								
		FXM02-0821 FXM05-0821	FXM02-0921 FXM05-0921	FXM02-1021 FXM05-1021	FXM02-1221 FXM05-1221	FXM02-1521 FXM05-1521	FXM02-1821 FXM05-1821	FXM02-2121 FXM05-2121
2400								
		FXM02-0824 FXM05-0824	FXM02-0924 FXM05-0924	FXM02-1024 FXM05-1024	FXM02-1224 FXM05-1224	FXM02-1524 FXM05-1524	FXM02-1824 FXM05-1824	FXM02-2124 FXM05-2124
2400								
		FXM021-0824 FXM051-0824	FXM021-0924 FXM051-0924	FXM021-1024 FXM051-1024	FXM021-1224 FXM051-1224	FXM021-1524 FXM051-1524	FXM021-1824 FXM051-1824	FXM021-2124 FXM051-2124

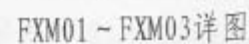
跟多资料加微信公众号jianzhu118

FXM02、FXM05防X射线门选用图

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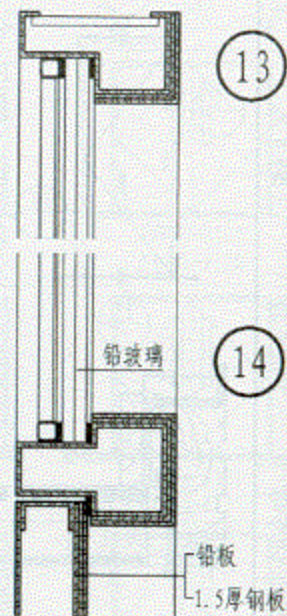
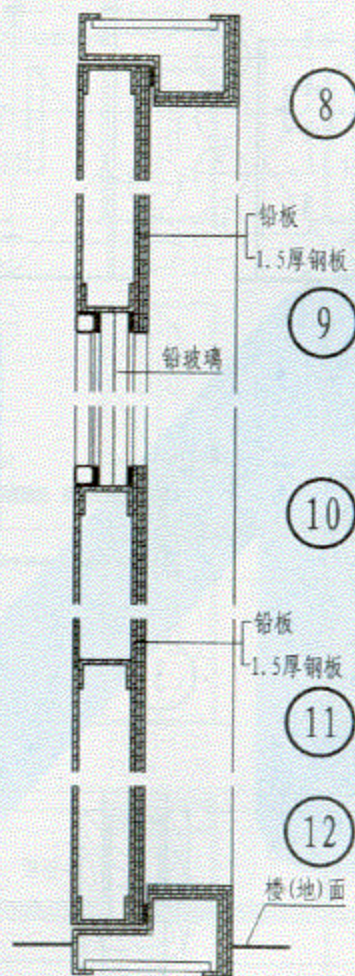
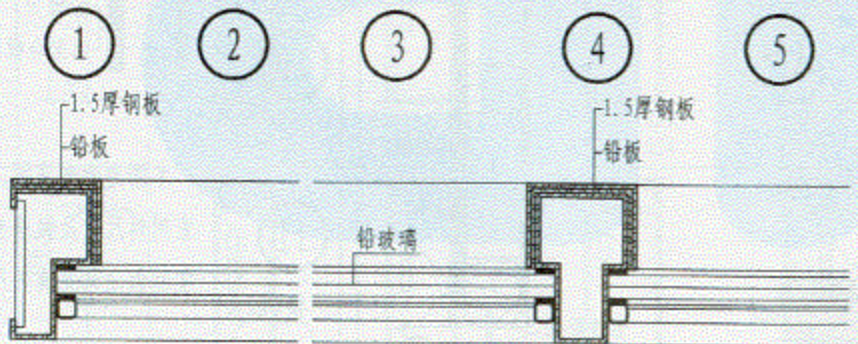
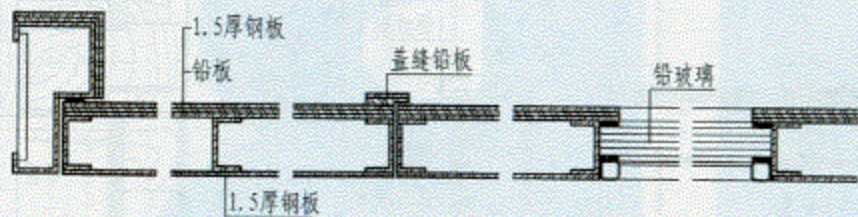
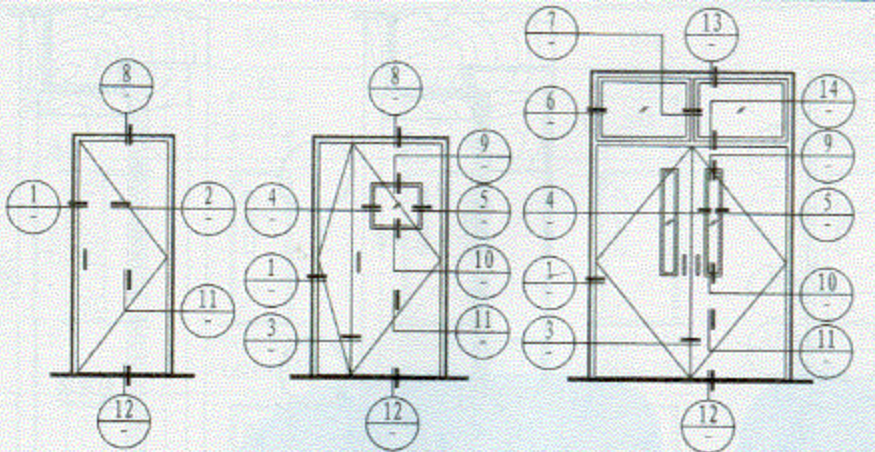
洞宽		800	900	1000	1200	1500	1800	2100
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2000	1990 20 1925 45	 FXM03-0820 FXM06-0820	 FXM03-0920 FXM06-0920	 FXM03-1020 FXM06-1020	 FXM03-1220 FXM06-1220	 FXM03-1520 FXM06-1520	 FXM03-1820 FXM06-1820	 FXM03-2120 FXM06-2120
2100	2090 20 2015 45	 FXM03-0821 FXM06-0821	 FXM03-0921 FXM06-0921	 FXM03-1021 FXM06-1021	 FXM03-1221 FXM06-1221	 FXM03-1521 FXM06-1521	 FXM03-1821 FXM06-1821	 FXM03-2121 FXM06-2121
2400	2390 20 2325 45	 FXM03-0824 FXM06-0824	 FXM03-0924 FXM06-0924	 FXM03-1024 FXM06-1024	 FXM03-1224 FXM06-1224	 FXM03-1524 FXM06-1524	 FXM03-1824 FXM06-1824	 FXM03-2124 FXM06-2124
2400	2390 20 1925 45 358	 FXM031-0824 FXM061-0824	 FXM031-0924 FXM061-0924	 FXM031-1024 FXM061-1024	 FXM031-1224 FXM061-1224	 FXM031-1524 FXM061-1524	 FXM031-1824 FXM061-1824	 FXM031-2124 FXM061-2124



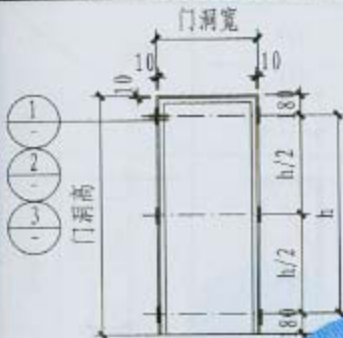
注: 本图为参考详图, 各生产厂家用料尺寸及做法有所差异, 实际做法均见有关厂家产品。

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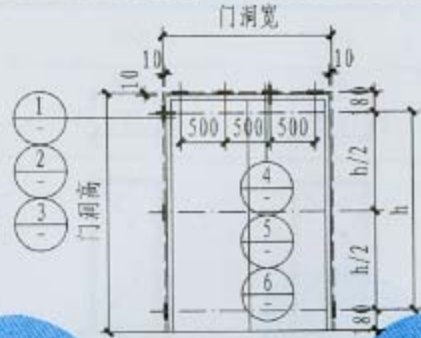
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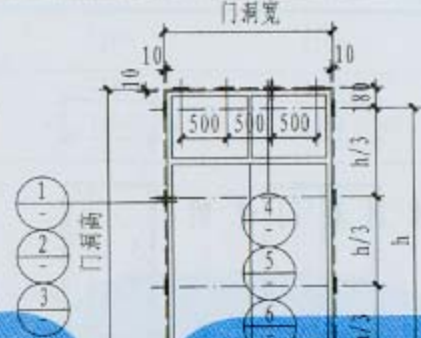
注: 本图为参考详图, 各生产厂家用料尺寸及做法有所差异, 实际做法均见有关厂家产品。



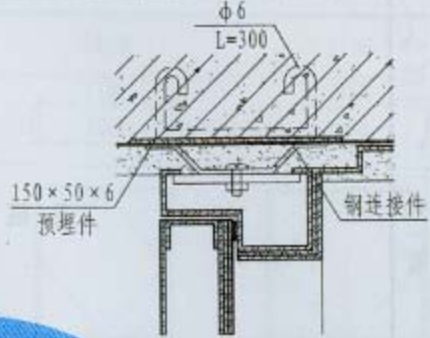
单扇门立樘缝隙及
钢连接件位置立面



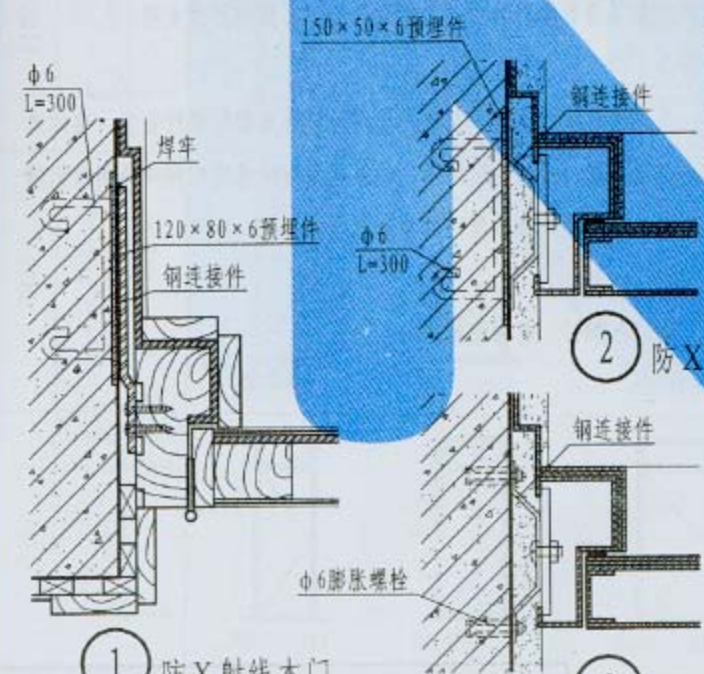
双扇门立樘缝隙及
钢连接件位置立面



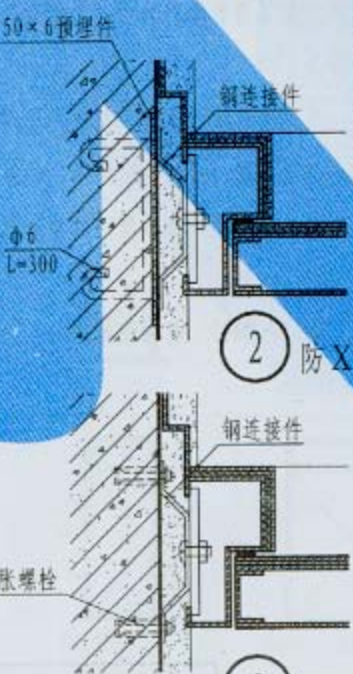
带亮门立樘缝隙及
钢连接件位置立面



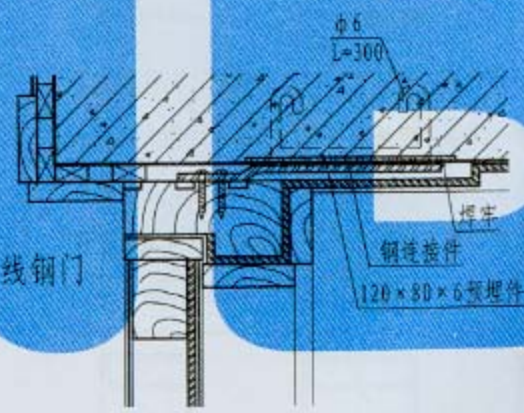
5 防X射线钢门



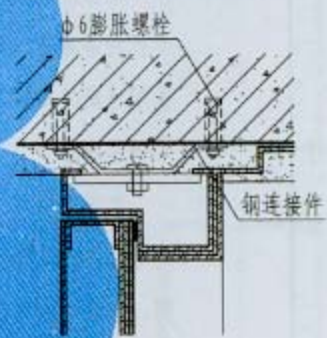
1 防X射线木门



2 防X射线钢门



4 防X射线木门



6 防X射线钢门

注：适用墙体
a. 钢筋混凝土墙
b. 烧结砖砌体墙

跟多资料加微信公众号jianzhu118

3 防X射线钢门

防X射线门洞口与门框连接详图	图集号	05J4-2
	页次	59

电磁波屏蔽门说明

1. 适用范围

电磁波屏蔽门适用于为隔绝(减弱)室内或室外电磁场和电磁波干扰的屏蔽室。如:信息保密机房、仪器测量调试实验室、微波暗室、医院核磁共振室等。

2. 编制内容

本图集所列门型为平开形式。内容为门的立面选型、门的构造及门与墙体的连接节点详图。本图集电磁波屏蔽门立面及详图为一例,供设计人员选用。由于屏蔽工程具有专业性和严格性,电磁波屏蔽门应按不同技术经济指标选购专业厂家产品,并采用专业施工队伍进行施工。

3. 材料配件

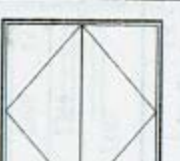
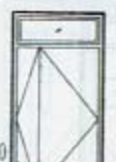
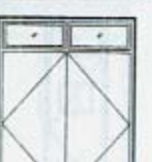
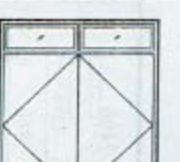
屏蔽层材料采用镀锌钢板,门缝采用插刀屏蔽做法。钢构件除已按规定做了防护涂料的可不另作处理外,必须作防锈处理。

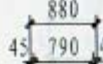
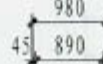
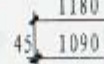
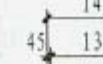
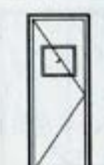
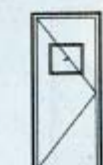
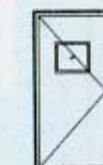
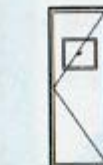
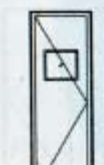
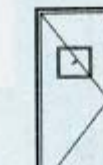
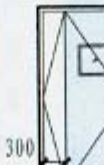
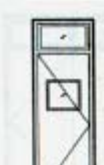
4. 安装

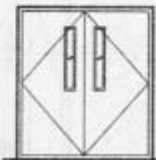
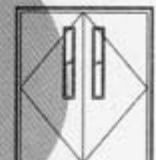
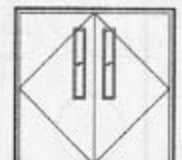
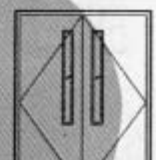
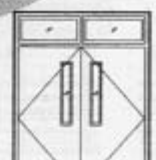
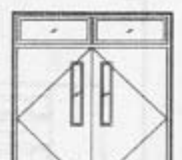
电磁波屏蔽门安装应与墙内埋件焊接或用膨胀螺栓安装,墙体为钢筋混凝土墙、烧结砖砌体墙,如系轻型砌块墙则在洞口两侧做钢筋混凝土构造柱或加带预埋件的预制混凝土砌块。

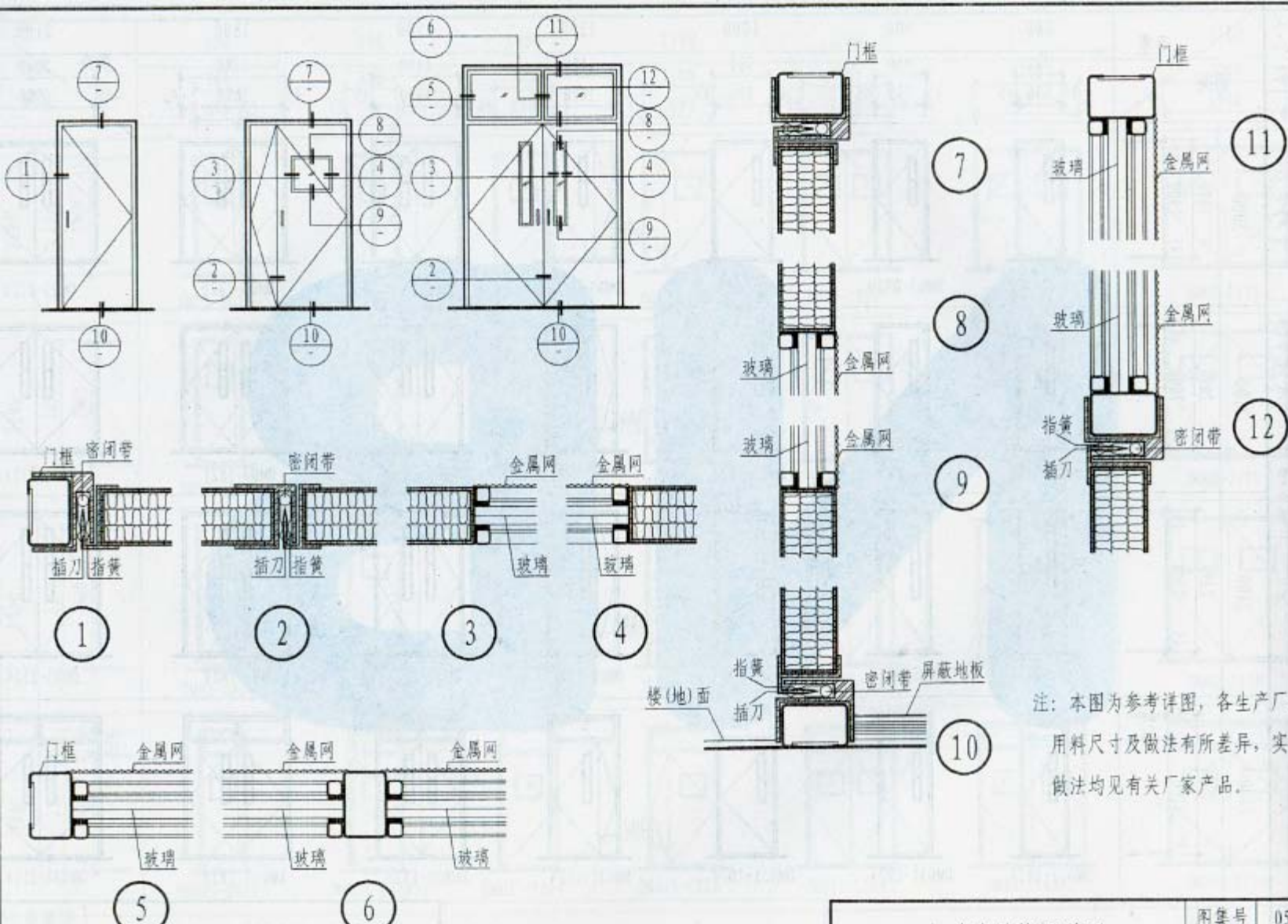
5. 门型及代号

DM01~DM03 电磁波屏蔽门

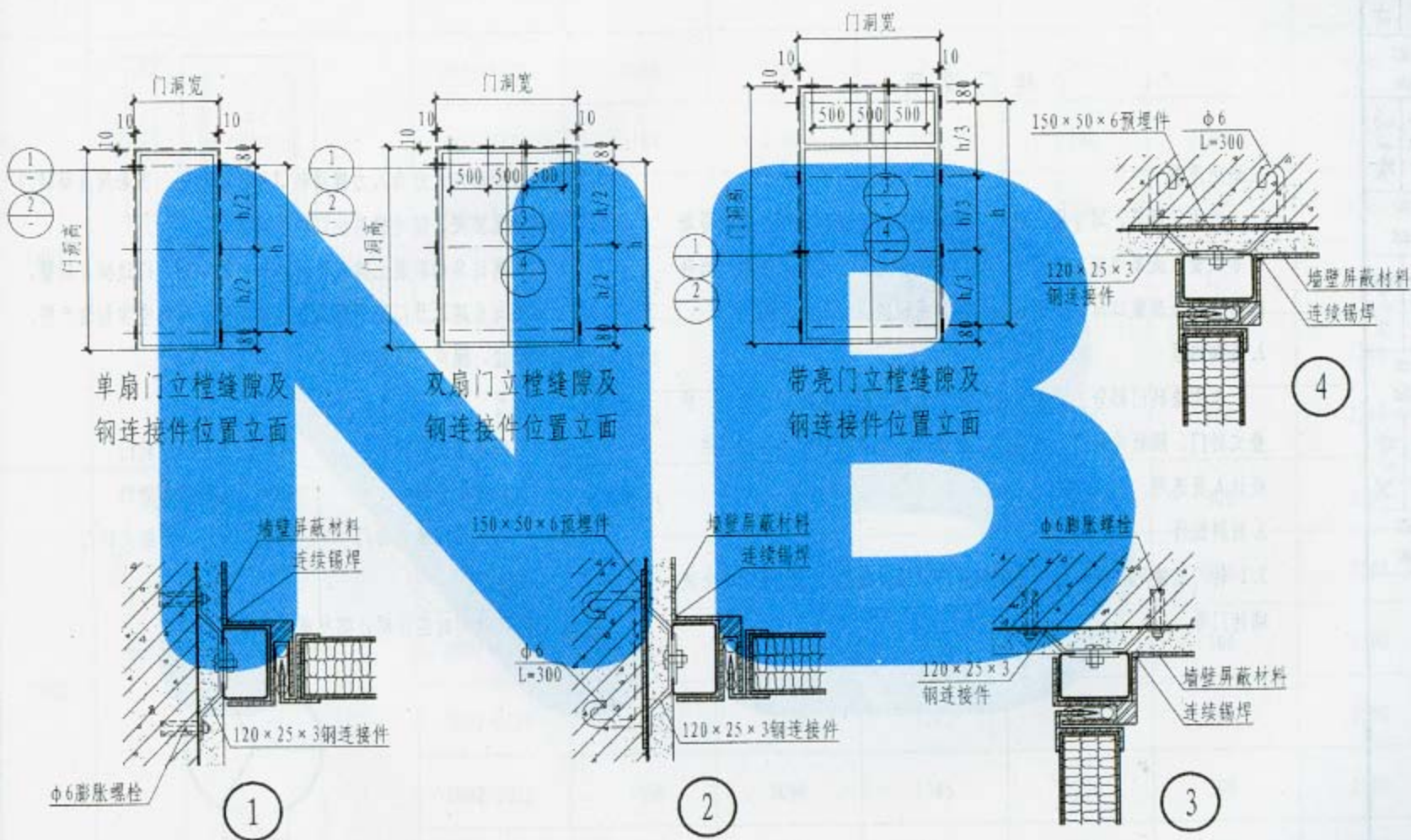
洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
		780 45 690 45	880 45 790 45	980 45 890 45	1180 45 1090 45	1480 45 1390 45	1780 45 1690 45	2080 45 1990 45
2000	1990 45 1900 45	 DM01-0820	 DM01-0920	 DM01-1020	 DM01-1220	 DM01-1520	 DM01-1820	 DM01-2120
2100	2090 45 2000 45	 DM01-0821	 DM01-0921	 DM01-1021	 DM01-1221	 DM01-1521	 DM01-1821	 DM01-2121
2400	2390 45 2300 45	 DM01-0824	 DM01-0924	 DM01-1024	 DM01-1224	 DM01-1524	 DM01-1824	 DM01-2124
2400	2390 45 1900 45 42 45 45	 DM011-0824	 DM011-0924	 DM011-1024	 DM011-1224	 DM011-1524	 DM011-1824	 DM011-2124

洞宽 \ 洞高		800	900	1000	1200	1500	1800	2100
								
洞高	2000							
	2100							
	2400							
	2400							

洞宽		800	900	1000	1200	1500	1800	2100
洞高		780 45 690 45	880 45 790 45	980 45 890 45	1180 45 1090 45	1480 45 1390 45	1780 45 1690 45	2080 45 1990 45
2000	1990 45 1900 45	 DM03-0820	 DM03-0920	 DM03-1020	 DM03-1220	 DM03-1520	 DM03-1820	 DM03-2120
2100	2090 45 2000 45	 DM03-0821	 DM03-0921	 DM03-1021	 DM03-1221	 DM03-1521	 DM03-1821	 DM03-2121
2400	2390 45 2300 45	 DM03-0824	 DM03-0924	 DM03-1024	 DM03-1224	 DM03-1524	 DM03-1824	 DM03-2124
2400	2390 45 1900 45 358	 DM031-0824	 DM031-0924	 DM031-1024	 DM031-1224	 DM031-1524	 DM031-1824	 DM031-2124



注：本图为参考详图，各生产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。



转 门 说 明

1. 适用范围

适用于酒店、写字楼、机场、购物中心、医院、银行、剧院等场所非大量人流集中出入的部分。转门不能作为安全疏散门使用，当转门设在安全疏散口时，必须在转门两侧另设供安全疏散用的门。

2. 编制内容

本图集转门部分主要表示转门的立面和平面，包括普通转门、折叠式转门、隔断式转门三种型式，根据门扇数量共分为六种门型供设计人员选用。

3. 材料配件

3.1 转门按使用材料可分为不锈钢转门、铝合金转门、木转门、全玻璃转门等。

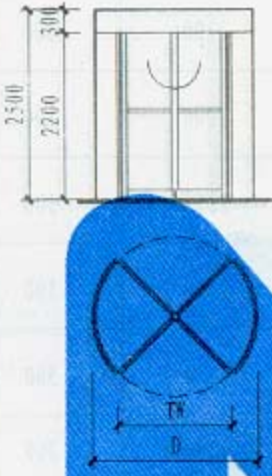
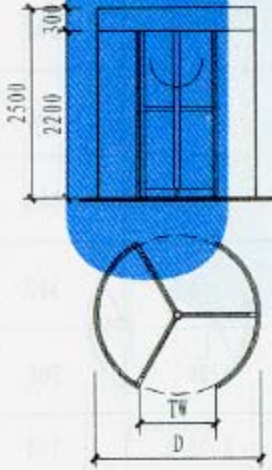
3.2 转门按驱动方式分为人力推动转门和自动转门。当采用自动转门时，必须设置防夹、防冲撞系统以保证安全。

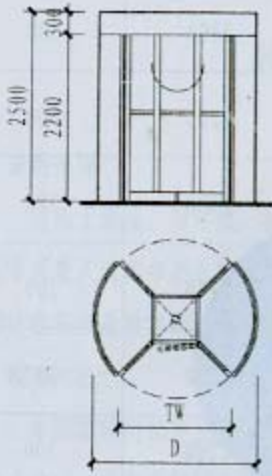
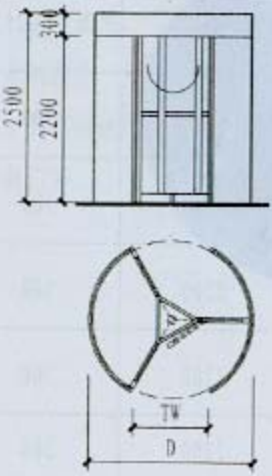
3.3 转门四周边角均应装上橡胶密封条和特制毛刷，门边梃与转壁、门扇上冒头与吊顶以及门扇下冒头与地坪表面之间的空隙封堵严密，以提高其防尘、隔声、节能等效果。

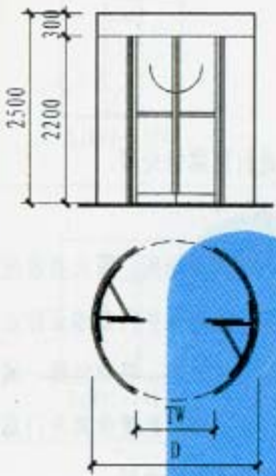
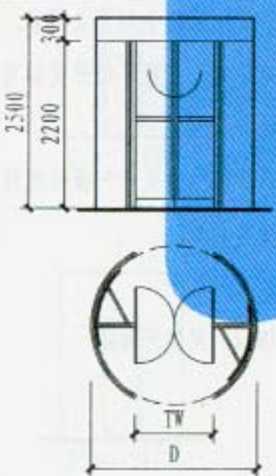
4. 门型及代号

ZM01 四扇普通转门	ZM02 三扇普通转门
ZM03 四扇折叠转门	ZM04 三扇折叠转门
ZM05 平滑门隔断式转门	ZM06 平开门隔断式转门

注：设计人在选用时应注明注明材质和驱动方式。

编号	立面和平面	型 号	外径D	内径	通道宽度TW	入口净高度	顶盖高度	总高度
ZM01		ZM01-1825	1888	1800	1215	2200	300	2500
		ZM01-2125	2188	2100	1415	2200	300	2500
		ZM01-2425	2488	2400	1620	2200	300	2500
		ZM01-2725	2788	2700	1825	2200	300	2500
		ZM01-3025	3088	3000	2025	2200	300	2500
		ZM01-3625	3688	3600	2430	2200	300	2500
ZM02		ZM02-1825	1888	1800	830	2200	300	2500
		ZM02-2125	2188	2100	970	2200	300	2500
		ZM02-2425	2488	2400	1105	2200	300	2500
		ZM02-2725	2788	2700	1245	2200	300	2500
		ZM02-3025	3088	3000	1385	2200	300	2500
		ZM02-3625	3688	3600	1660	2200	300	2500

编号	立面和平面	型 号	外径D	内径	通道宽度TW	入口净高度	顶盖高度	总高度
ZM03		ZM03-3625	3688	3600	2430	2200	300	2500
		ZM03-3925	3988	3900	2635	2200	300	2500
		ZM03-4225	4288	4200	2835	2200	300	2500
		ZM03-4825	4888	4800	3240	2200	300	2500
		ZM03-5425	5488	5400	3645	2200	300	2500
		ZM03-6025	6088	6000	4050	2200	300	2500
ZM04		ZM04-3625	3688	3600	1660	2200	300	2500
		ZM04-3925	3988	3900	1800	2200	300	2500
		ZM04-4225	4288	4200	1940	2200	300	2500
		ZM04-4825	4888	4800	2215	2200	300	2500
		ZM04-5425	5488	5400	2490	2200	300	2500
		ZM04-6025	6088	6000	2770	2200	300	2500

编号	立面和平面	型 号	外径D	内径	通道宽度TW	入口净高度	顶盖高度	总高度
ZM05		ZM05-3025	3088	3000	1400	2200	300	2500
		ZM05-3625	3688	3600	1700	2200	300	2500
		ZM05-4225	4288	4200	2000	2200	300	2500
		ZM05-4825	4888	4800	2300	2200	300	2500
ZM06		ZM06-3025	3088	3000	1400	2200	300	2500
		ZM06-3625	3688	3600	1700	2200	300	2500
		ZM06-4225	4288	4200	2000	2200	300	2500
		ZM06-4825	4888	4800	2300	2200	300	2500

升降门说明

1. 适用范围

升降门适用于民用建筑及工业建筑,如厂房、车库、仓库等建筑。

2. 编制内容

升降门是门扇开启后移至门洞上方,不占用下部空间,门扇有配重组件平衡门扇重量,减少开关门扇阻力。开关方式为电动和手动两用。根据需要可加装电动无线遥控装置遥控开关门扇。

门扇按是否保温分为一般门扇和保温门扇,由工程设计者根据保温要求确定选用,并在图纸中标明。

本图集编制内容包括:门的立面选型,门的一般构造及门与墙体的连接节点详图等。

3. 材料和配件

保温门扇面材料选用彩色金属绝热材料夹心板,一般门型门扇面采用压型钢板。门扇骨架材料为冷轧方钢管及热轧角钢、槽钢、扁钢,门扇骨架采用电弧焊接。门扇与骨架采用点焊或螺栓、铆钉连接。门

扇、五金零件及轨道等表面均应进行防腐蚀处理。

4. 储存运输与安装

4.1 门扇及配件储存于干燥无腐蚀性物资场所,露天存放防雨防潮。

门扇运输应垫平捆牢避免挤压变形,注意保护门扇漆面防止擦伤。

4.2 将门扇导轮装入导轨中,安装好滑轮组,将钢丝绳一端连接门上端吊环绕过滑轮槽,一端与配重连接,调节配重使其与门扇重量平衡,调至门扇上下移动可以停于任意位置为好。

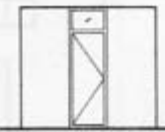
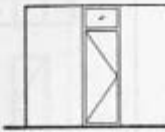
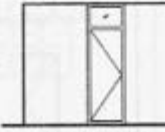
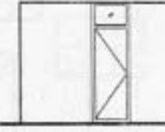
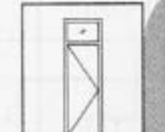
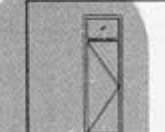
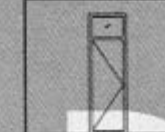
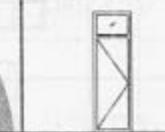
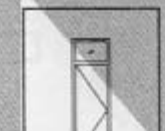
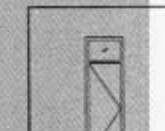
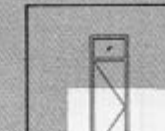
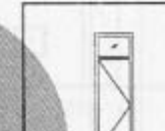
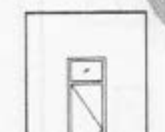
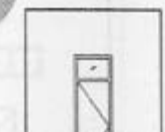
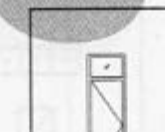
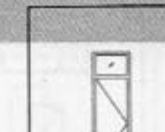
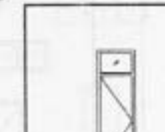
4.3 初步安装好后先不接通电动装置,试用手动开关门扇,应能灵活开关,如有阻卡应排除直至能正常运转。调好手动开关后可接通电源进行电动开关调试,直至开关顺畅自如。

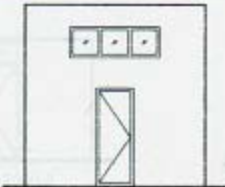
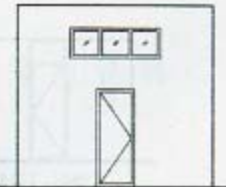
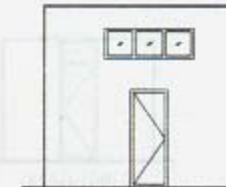
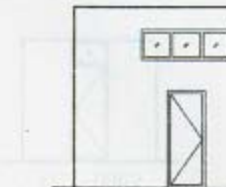
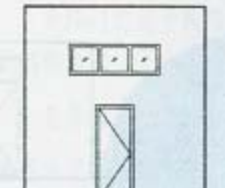
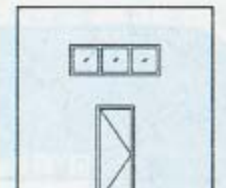
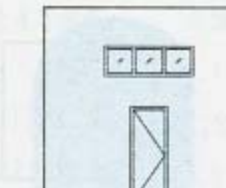
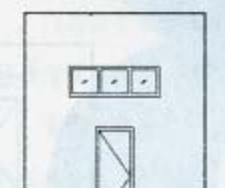
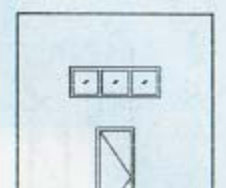
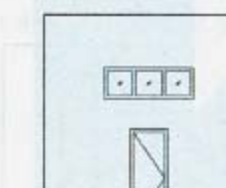
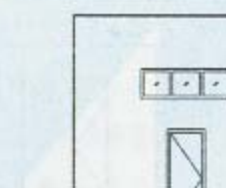
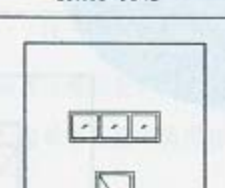
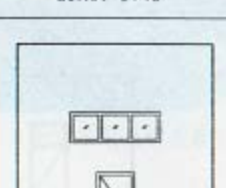
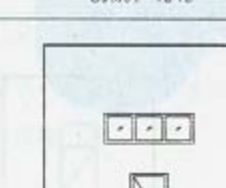
4.4 电气控制部分安装及接线要严格按照有关电气操作规程操作并妥善接好保护地线,检查无误方可接通电源。

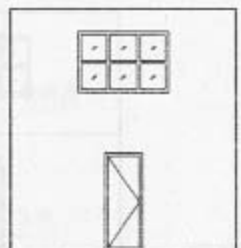
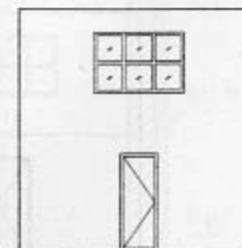
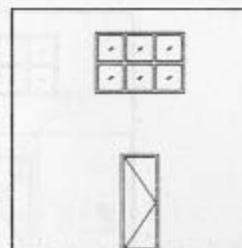
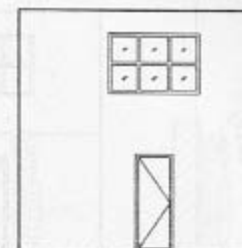
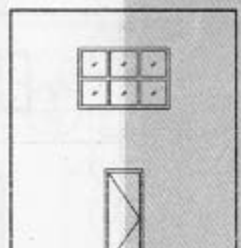
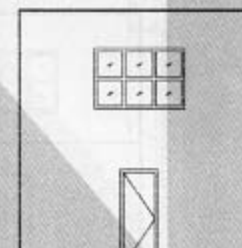
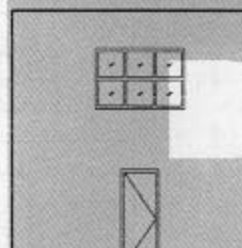
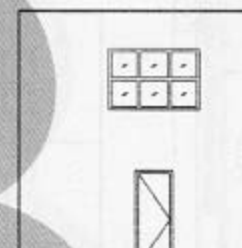
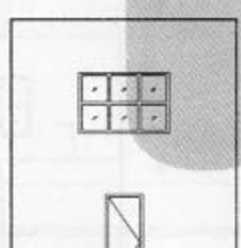
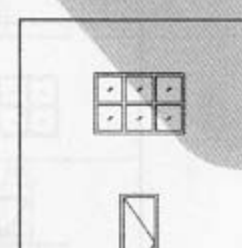
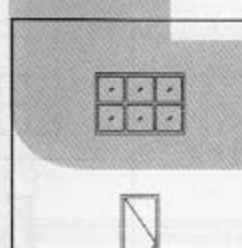
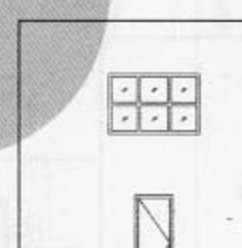
5. 门型及代号

SJM01 单扇升降门

SJM02 双扇升降门

洞宽	2400	2700	3000	3300	3600
2400	 SJM01-2424	 SJM01-2724	 SJM01-3024	 SJM01-3324	 SJM01-3624
2700	 SJM01-2427	 SJM01-2727	 SJM01-3027	 SJM01-3327	 SJM01-3627
3000	 SJM01-2430	 SJM01-2730	 SJM01-3030	 SJM01-3330	 SJM01-3630
3300	 SJM01-2433	 SJM01-2733	 SJM01-3033	 SJM01-3333	 SJM01-3633

洞宽 洞高	3600	3900	4200	4500	4800
3600	 SJM01-3636	 SJM01-3936	 SJM01-4236	 SJM01-4536	 SJM01-4836
3900	 SJM01-3639	 SJM01-3939	 SJM01-4239	 SJM01-4539	 SJM01-4839
4200	 SJM01-3642	 SJM01-3942	 SJM01-4242	 SJM01-4542	 SJM01-4842
4500	 SJM01-3645	 SJM01-3945	 SJM01-4245	 SJM01-4545	 SJM01-4845

洞宽	4500	4800	5100	5400
4800	 SJM01-4548	 SJM01-4848	 SJM01-5148	 SJM01-5448
5100	 SJM01-4551	 SJM01-4851	 SJM01-5151	 SJM01-5451
5400	 SJM01-4554	 SJM01-4854	 SJM01-5154	 SJM01-5454

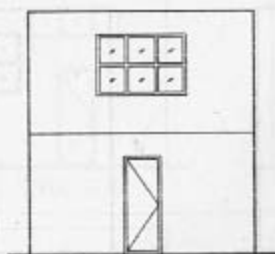
4500

4800

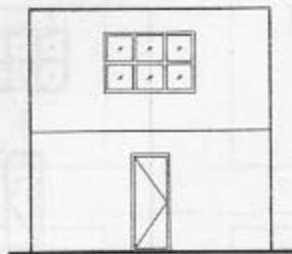
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5400

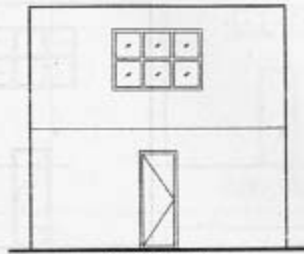
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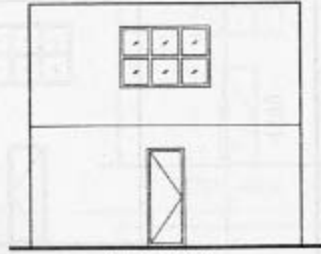
SJM02-4548



SJM02-4848

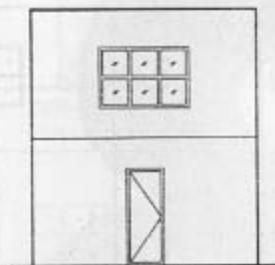


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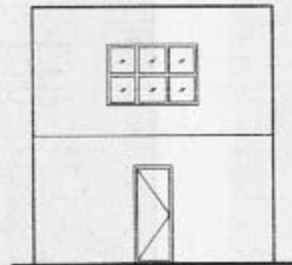


SJM02-5448

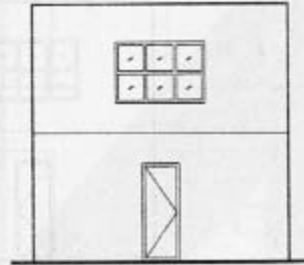
5100



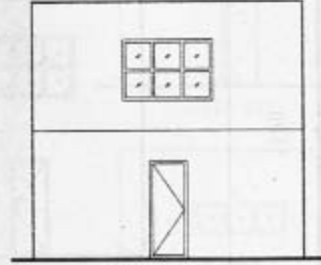
SJM02-4551



SJM02-4851

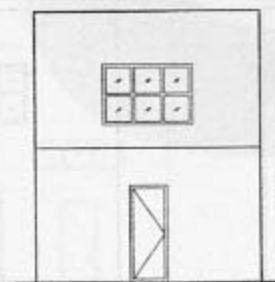


SJM02-5151

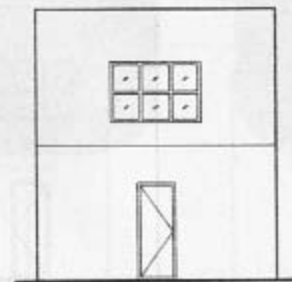


SJM02-5451

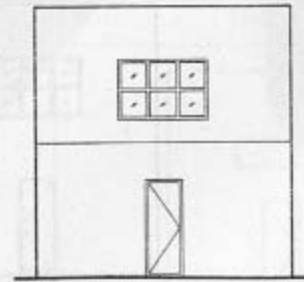
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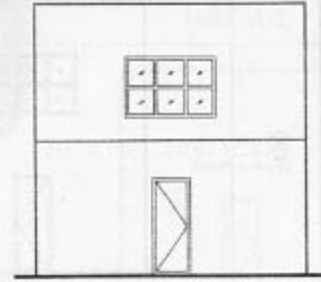
SJM02-4554



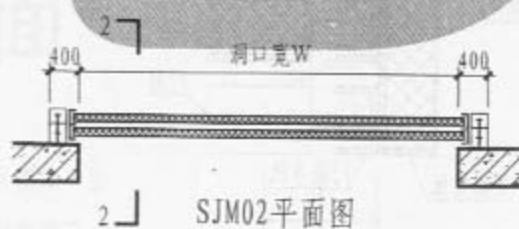
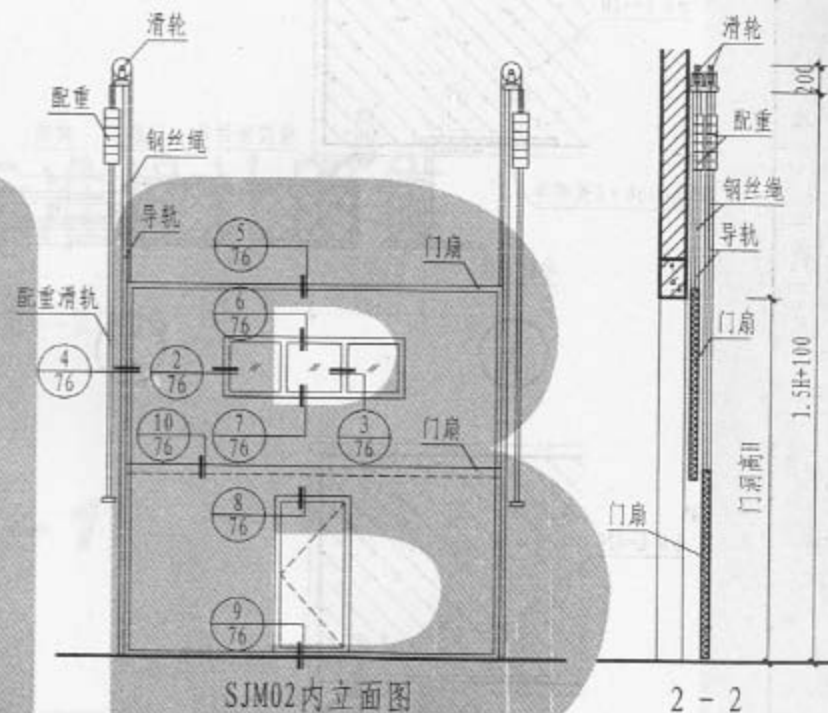
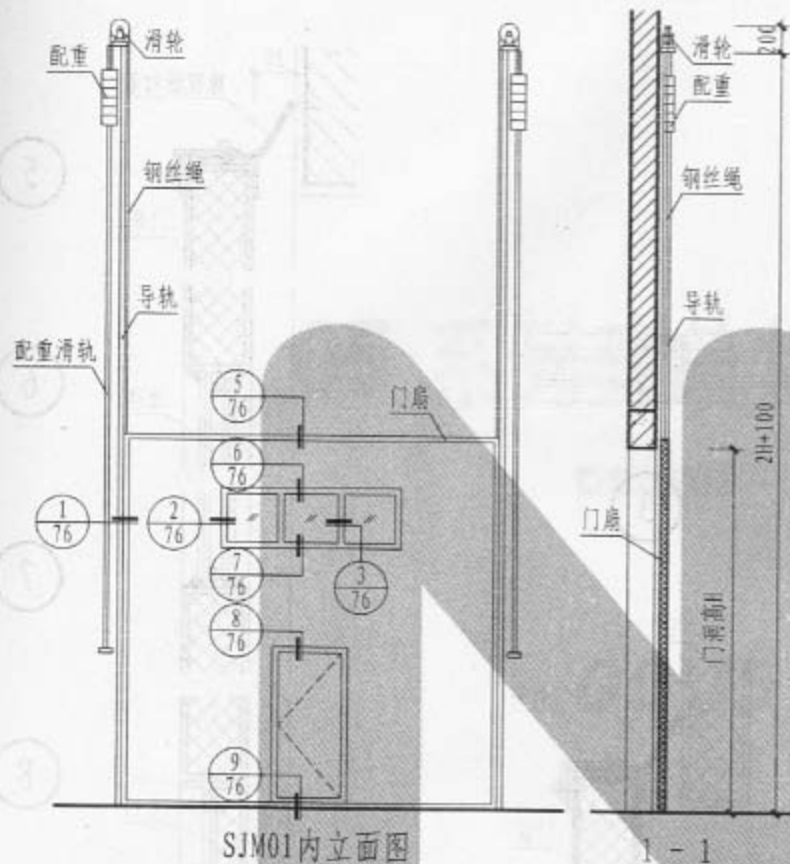
SJM02-4854

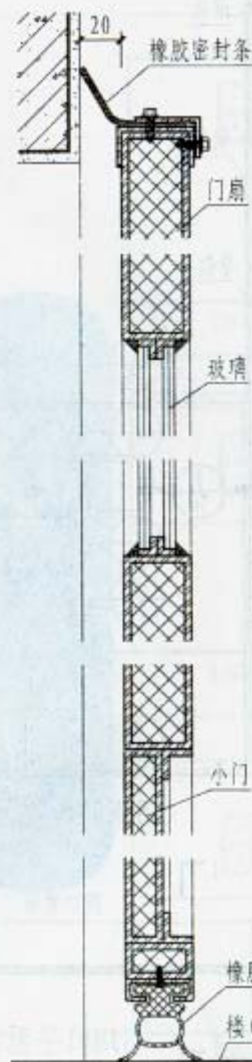
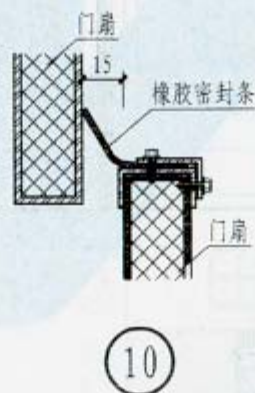
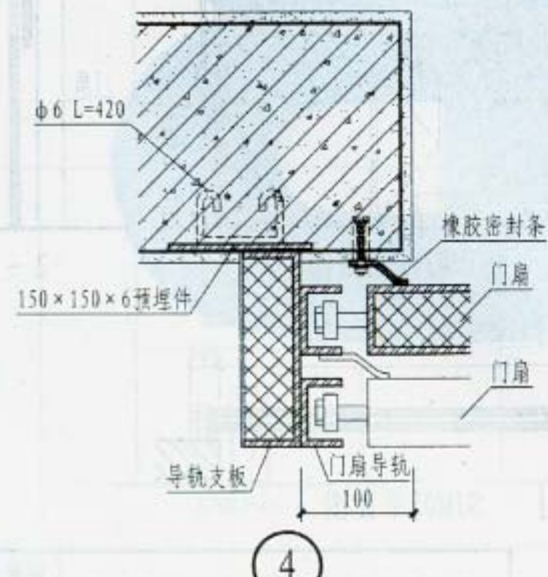
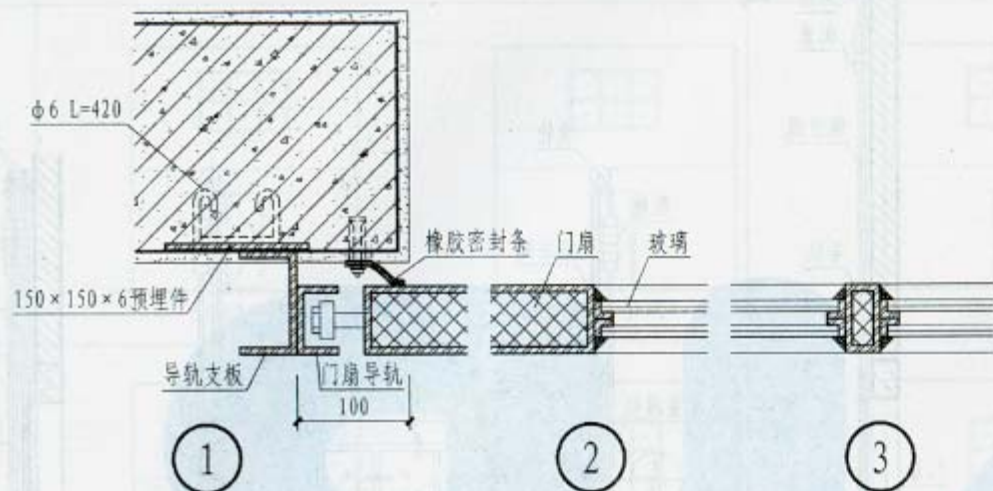


SJM02-5154



SJM02-5454





注：本图为保温门扇参考详图，各生产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。