

实腹钢门窗 32 系列

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主编单位 中国建筑标准设计研究院 统一编号 GJBT-770
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设计负责人 孙钢男

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说 明

1. 编制依据

1.1 本图集是根据建设部建质[2004]46号《二00四年国家建筑标准设计编制工作计划》中有关项目要求进行编制的。

1.2 主要依据标准:

普通碳素结构钢技术条件	GB/T 700
热轧窗框钢	GB 2597
建筑门窗术语	GB 5823-86
建筑门窗洞口尺寸系列	GB 5824-86
平开钢门基本尺寸系列	GB 5826.1-86
平开钢窗基本尺寸系列	GB 5826.3-86
实腹钢窗检验规则	GB/T 5827.1-86
实腹钢门	GB 9156-88
实腹钢纱门窗检验规则	GB 9157-88

2. 适用范围

2.1 本图集适用于一般工业建筑及辅助建筑。用于潮湿或有腐蚀环境时,应选用抗腐蚀性强的涂料涂装,并加强使用时的维护。

2.2 供建筑设计选用、加工定货和施工安装使用。五金零件由钢窗制造厂统一配套供应。

2.3 本图集组合窗拼樘料抗风压强度值不大于0.70kPa,挠度控制在跨度的1/160以内。基本中悬窗和基本固定窗的抗风压强度适用于0.70kPa,选用时应按地区风压值和所处高度核算后确定。基本平开窗抗风压强度的适用范围见下表。

洞宽 (mm) \ 洞高 (mm)	600	900	1200	1500	1800
600	≤ 4.50kPa				
900					
1200		≤ 4.00kPa			
1500		≤ 3.50kPa			≤ 3.00kPa
1800			≤ 3.00kPa		
2100				≤ 2.50kPa	

基本平开窗的抗风压强度是按3mm厚玻璃所能承受的抗风压强度综合计算后,按下限列出的。供设计选用时参考。

2.4 本图集的门窗洞口安装缝隙尺寸已标注在各门窗型立面上;工程设计遇墙面饰面材料厚度超过该范围时,由工程设计调整。

3. 设计选型及窗型编号

3.1 本图集所示立面均由室外向室内立视。

3.2 类型名称与代号

类型代号	类型名称	类型代号	类型名称
GC	固定窗	PM	镶玻璃钢板门
SC	上悬窗		钢板门
CC	中悬窗		百页钢板门
PC	单层平开窗	CM	连窗门
	双层平开窗	HC	组合窗
	双层平开窗(带气窗)	FC	配套专用窗
LC	立转窗	FM	配套专用门

说 明

图集号

04J602-1

审核

郭景

设计

李力

校对

孙钢男

设计

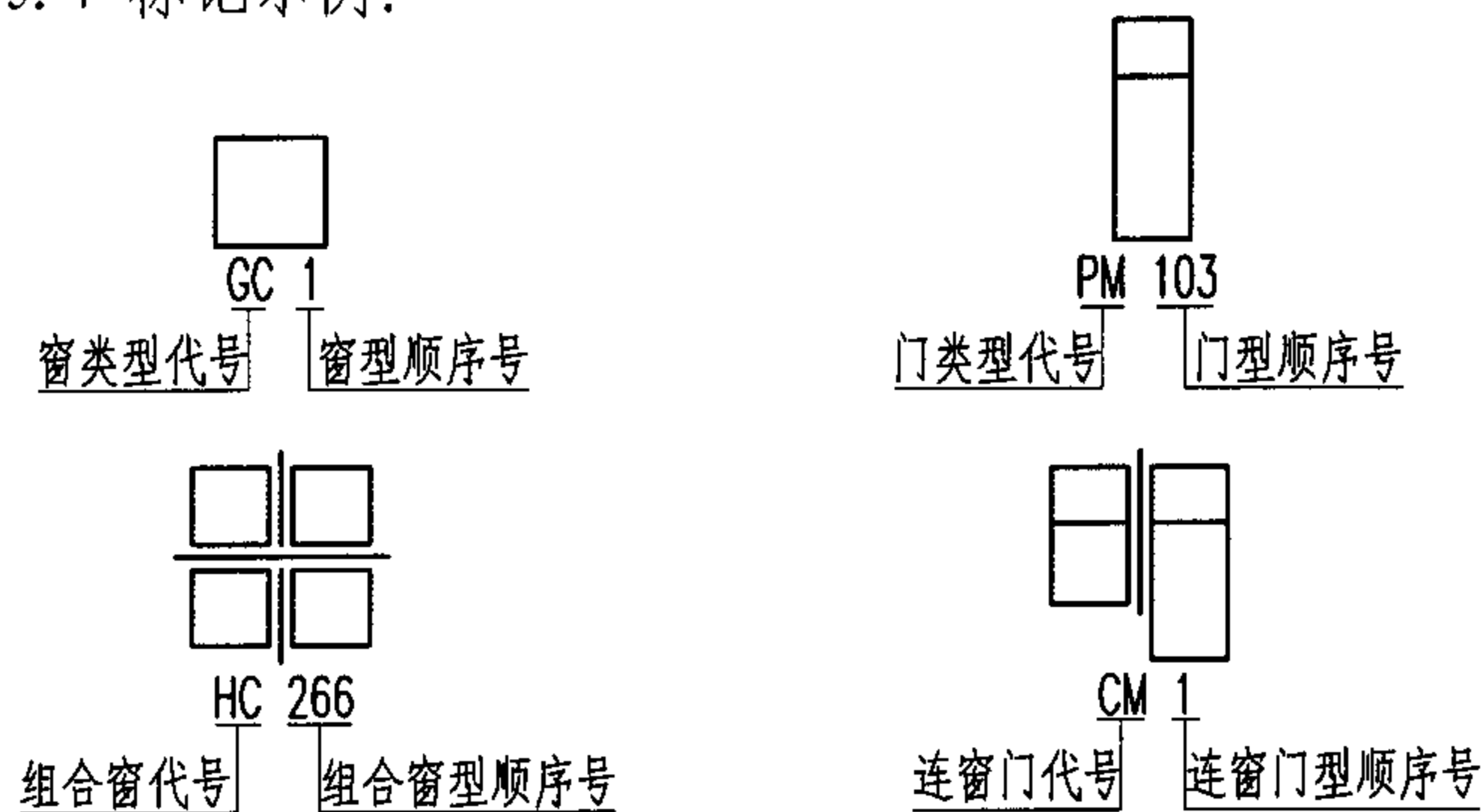
孙钢男

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3.3 门窗规格的编号由门窗类型代号, 门窗类型顺序号所组成。

3.4 标记示例:

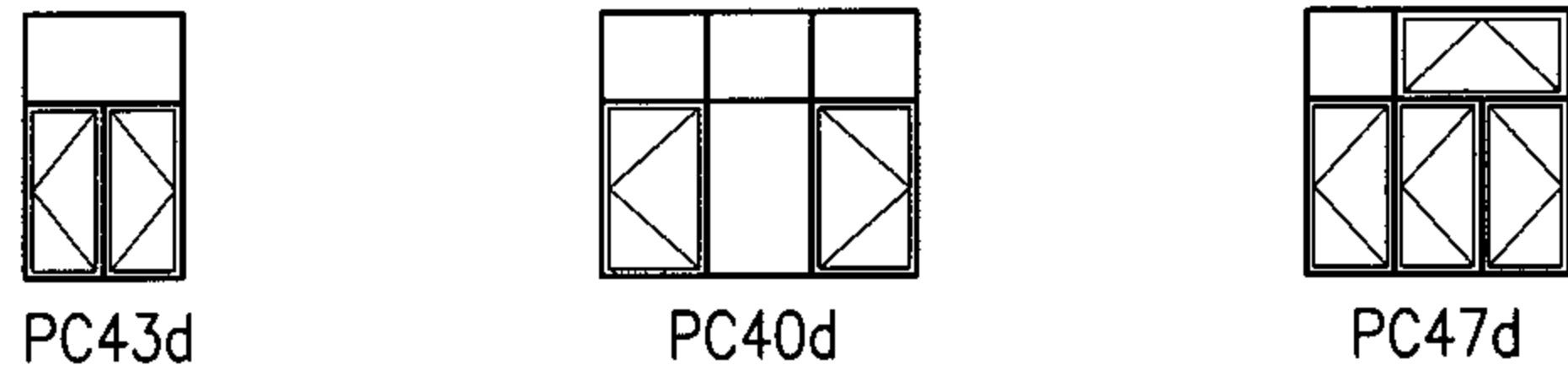


3.5 基本门窗立面右上角数字为该门窗耗钢理论重量Kg/樘, 它不包括安装铁脚、五金件的重量。

3.6 代号为FC、FM的门窗类型为配套专用门窗, 不宜单独使用。

3.7 钢门窗带纱扇时, 在窗型顺序号后面加注符号"S", 如PC62S; 并在门窗表中注明纱窗开启形式, 未加说明时均按固定式纱窗配套。

3.8 除LC立转窗外, 其余窗型均为小玻璃, 如采用大玻璃时, 在窗型顺序号后面加注符号"d"即按取消窗芯制作。如下图所示:



3.9 平开窗采用大玻璃带纱窗时, 在窗型顺序号后面加注符号"d·S", 如PC62d·S。

3.10 本图集单层平开窗为外开窗型, 如需采用内开窗型时, 在工程门窗表或订货单中注明"内开"和"上悬腰窗改为固定", 并注明是否增加披水板。

3.11 本图集的内开平开门是否附设披水板, 须在工程门窗表或订货单中注明, 未注明者均按无披水板制作。

3.12 镶配玻璃一般使用玻璃弹簧销和油灰, 如选压条或其他方法镶配时, 在门窗表或订货单中注明。

3.13 门窗一般采用为3~4mm厚玻璃, 使用大玻璃时为5mm厚玻璃。如需使用玻璃纤维增强聚酯采光板和其它采光材料时, 在门窗表或订货单中注明。

3.14 选用本图集的各类型钢门, 应注明有槛或无槛。未注明者均按有门槛制作。

3.15 各类基本门窗、连窗门和组合窗的安装铁脚位置、数量均以本图集立面图中的规定为准。

3.16 本图集的组合窗和连窗门如不满足工程项目要求时, 设计者可选用本图集的基本门窗和配套用门窗另行组合。应绘制组合窗立面图并注明所选用的基本窗和配套用门窗型号及拼樘料。拼樘料的选择应在允许跨度, 允许间距内。详见第42页。

3.17 工程设计中需使用带型窗时, 可参照本图集的基本窗按带型组合窗示意图的要求进行设计, 并绘制带形窗组合立面图。

3.18 选用本图集的基本窗、组合窗、门及连窗门时, 只需在门窗表中列出门窗的编号、樘数、洞口尺寸和注明特殊要求即可。

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审核	郭 景	郭 景	校对	李 力	李 力	设计	孙钢男	孙钢男	页 4

4. 加工制作和检验规则

- 4.1 本图集各类型基本窗或门制作的型材应符合GB2597和GB/T700的规定。
- 4.2 钢门窗加工装配后，应除油除锈，表面涂防锈底漆一道，漆层应薄厚均匀，不应有明显堆漆、漏漆等缺陷。
- 4.3 钢门窗加工、装配的成品质量，应符合GB/T5827.1-86和GB9156-88的规定，钢纱门窗加工和装配质量应符合GB9157的规定。

5. 标志、包扎、运输、贮存

- 5.1 钢门窗出厂时，应签发出厂合格证明书，每捆(箱)均应挂合格标牌。
- 5.2 装运起吊和装卸时，不可穿入窗梃或窗芯起吊和扛抬。应轻起轻放，防止造成变形。需经长途运输的钢门窗，应在门窗框四周和合页处以及窗扇中间衬垫木块，并用铅丝捆扎牢固，以免损坏零件和防止构件变形。
- 5.3 在施工现场堆放时，必须用垫块垫平，立放角度不小于70°，避免与腐蚀性物质接触，露天堆放时应采取防潮和防雨措施。

6. 安装

- 6.1 安装前应逐樘进行检查，发现门窗框变形或窗角、窗梃、窗芯有脱焊、松动等现象，均需校正修复后方可进行安装。

- 6.2 钢门窗应装置在预砌的墙洞内，不可边砌边装，安装时在门或窗角与窗梃处用木楔固定。
- 6.3 门窗安装时，必须校正前后、左右的垂直度和水平度，并按设计要求调整门窗安装高度和内墙面的距离，组合窗及双层窗要做到横平竖直、高低一致、里外一致。检查无误后，将铁脚用螺钉紧固在门窗框上并与墙体连接。
- 6.4 门窗安装粉饰后，必须进行门窗开启的校正工作。使扇框与窗梃关闭严密、启闭灵活、无阻滞回弹现象后，方可安装五金零件。所安装的五金零件要求位置准确、使用灵活、松紧适宜，安装螺钉不允许有松动现象。
- 6.5 必须将门窗表面的砂浆、尘土、油污和锈斑清除洁净后，涂刷防锈底漆一道。
- 6.6 安装玻璃时，先嵌2~3mm厚优质油灰的底灰后，再镶配玻璃，玻璃宽高切割尺寸各缩小6mm，镶配后用玻璃弹簧销卡牢嵌满油灰，达到密实平整。
- 6.7 玻璃安装后方可涂面漆两道。油漆品种、颜色由工程设计定。

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审核	郭景	邵	校对	李力	李	设计	孙钢男	页	5

洞口	600	900	1200	1500	1800	铁脚位置	洞口	600	900	1200	1500	铁脚位置
600						180 213 180	600					180 213 180
900						180 513 180	900					180 513 180
1200						180 813 180	1200					180 813 180
1500						180 552 180	1500					180 552 180
1800						180 696 180	1800					180 696 180
2100						180 561 180	2100					180 561 180
铁脚位置	180 213 180	180 513 180	180 813 180	180 552 552 180	180 696 696 180		铁脚位置	180 213 180	180 513 180	180 813 180	180 552 552 180	
							GC固定窗 SC上悬窗 CC中悬窗				图集号	04J602-1
							审核 郭景 李力 设计 孙钢男 陈钢男				页	7

洞口	600	900	1200	1500	1800	铁脚位置
600	 PC1 PC2	 PC3 PC4	 PC5 PC6	 PC7 PC8		180 213 180
900	 PC9 PC10	 PC11 PC12	 PC13 PC14	 PC15 PC16		180 513 180
1200	 PC17 PC18	 PC19 PC20	 PC21 PC22	 PC23 PC24		180 813 180
1500	 PC25 PC26	 PC27 PC28	 PC29 PC30	 PC31 PC32		180 1552 552 180
铁脚位置	180 213 180	180 513 180	180 813 180	180 552 552 180	180 696 696 180	

PC单层平开窗(一)

图集号

04J602-1

审核 郭景

校对 李力

设计 孙钢男

设计 孙钢男

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洞口	600		900	1200	1500		1800		铁脚位置	
1500										180 552 552 180
		PC49	PC50	PC51	PC52	PC53	PC54	PC55	PC56	
		PC57	PC58	PC59	PC60	PC61	PC62	PC63	PC64	
1800										180 696 696 180
		PC65	PC66	PC67	PC68	PC69	PC70	PC71	PC72	
		PC73	PC74	PC75	PC76	PC77	PC78	PC79	PC80	
铁脚位置										180 696 696 180
		PC81	PC82	PC83	PC84	PC85	PC86	PC87	PC88	
					PC单层平开窗(二)				图集号	04J602-1
					审核 郭景 李力 孙钢男				页	9

洞口	600		900	1200			1500	1800	铁脚位置
1800									
2100									
铁脚位置	180 213 180		180 513 180	180 813 180			180 552 552 180	180 696 696 180	
PC双层平开窗(二)								图集号	04J602-1
审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤								页	12

洞口	600	900	1200	1500	1800	铁脚位置
1200	 PC301 PC302	 PC303	 PC304	 PC305	 PC306	180 813 180
1500	 PC307 PC308	 PC309	 PC310	 PC311	 PC312	180 552 552 180
1800	 PC313 PC314	 PC315	 PC316	 PC317	 PC318	180 696 696 180
铁脚位置	180 213 180	180 513 180	180 813 180	180 552 552 180	180 696 696 180	

注：本图集中的小气窗全部用平合页。

PC双层平开窗(带气窗)

图集号

04J602-1

审核

孙钢男

孙钢男

校对

李力

李力

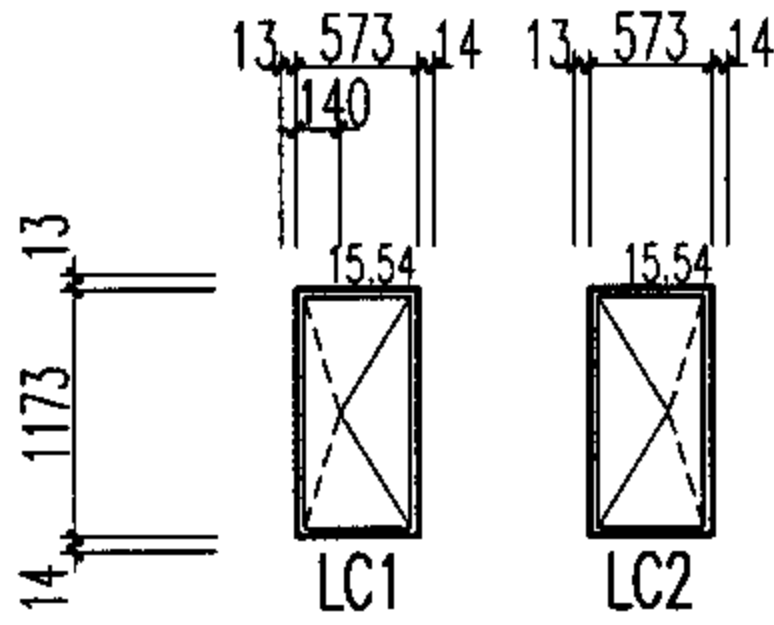
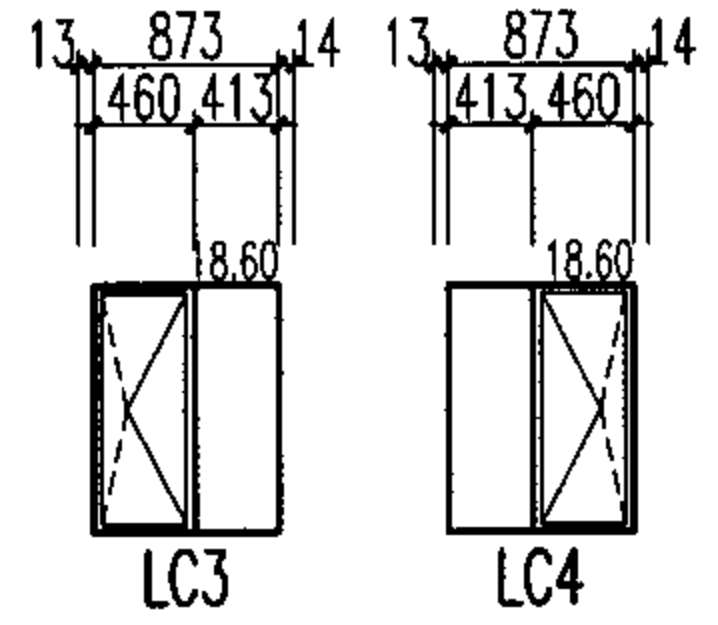
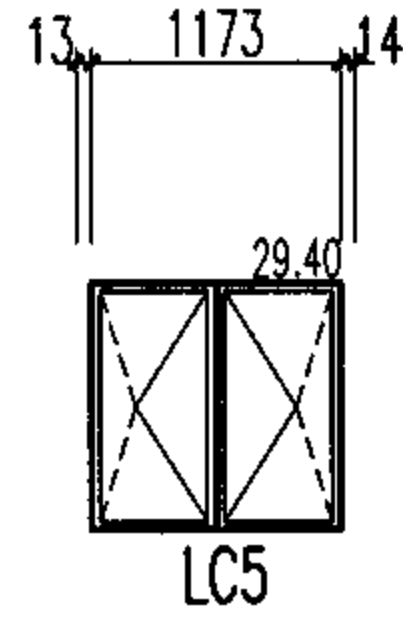
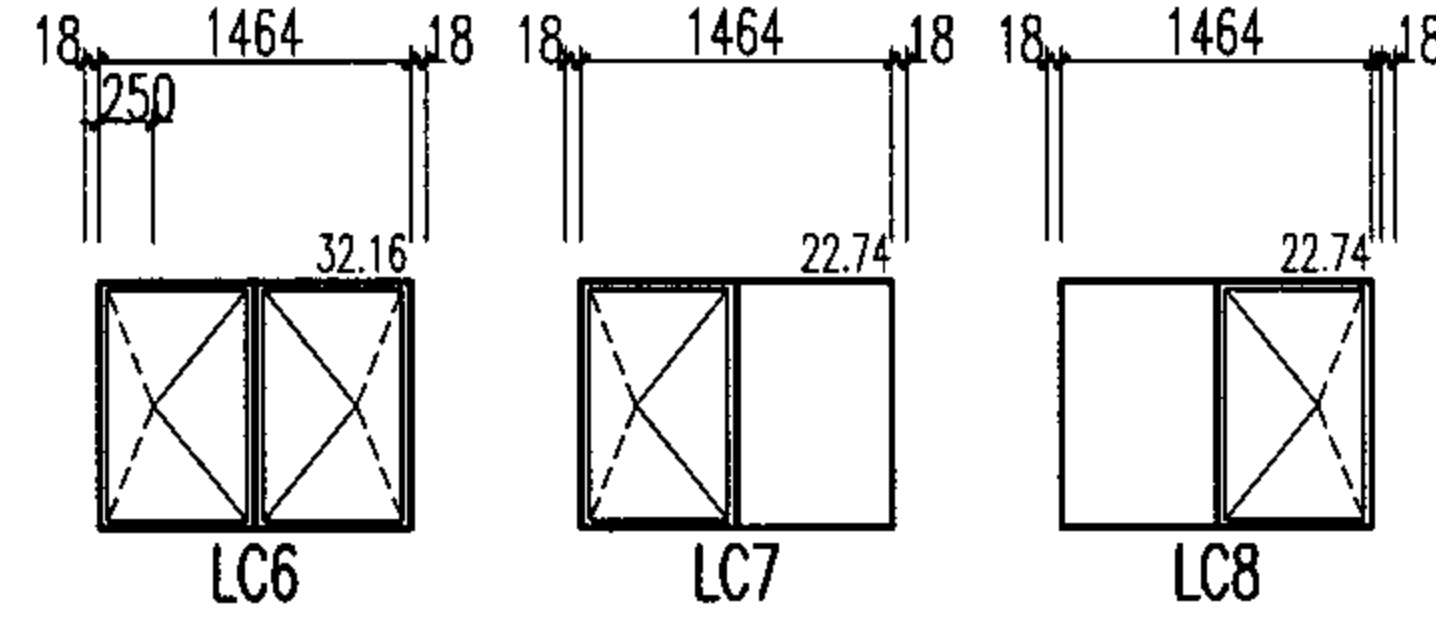
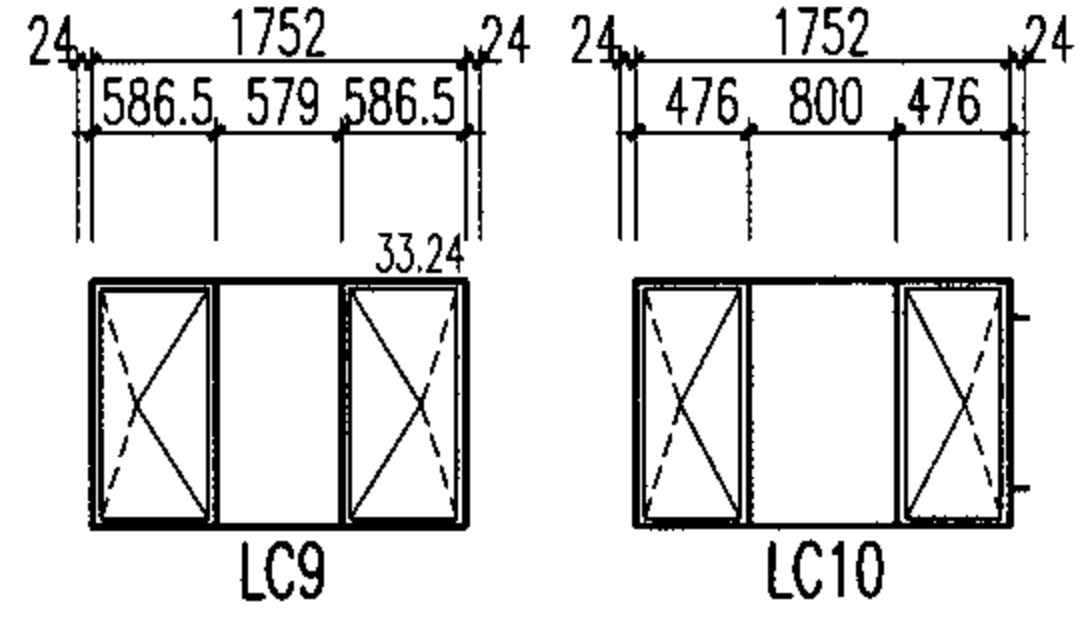
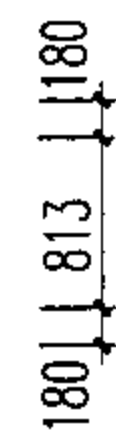
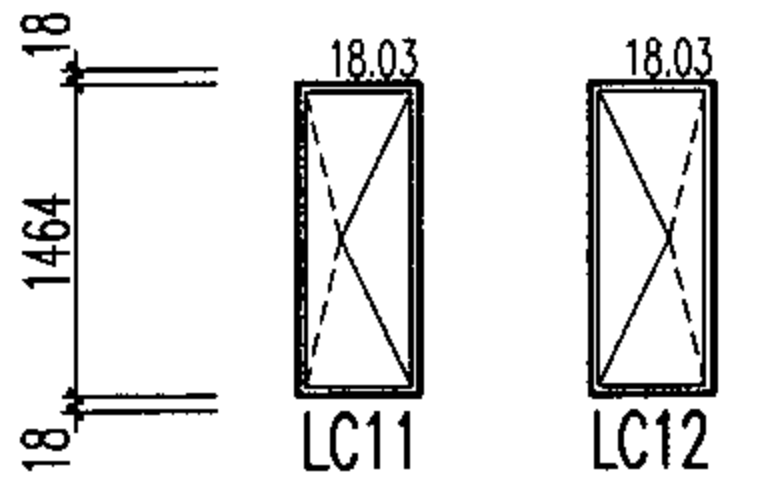
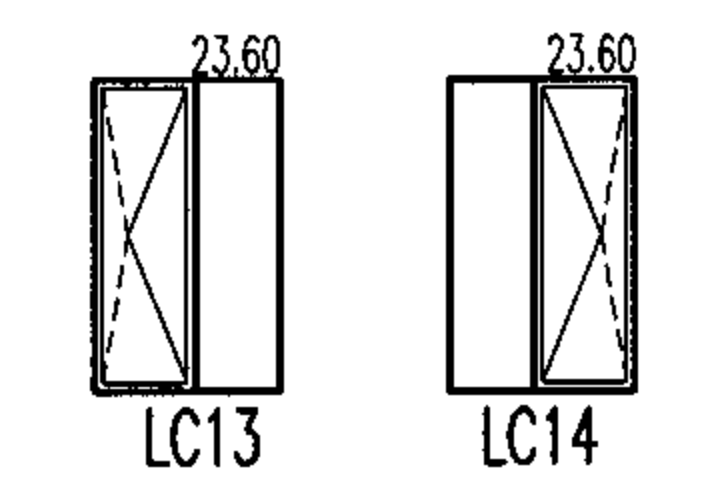
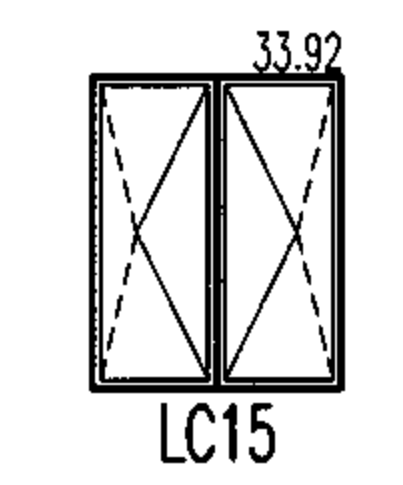
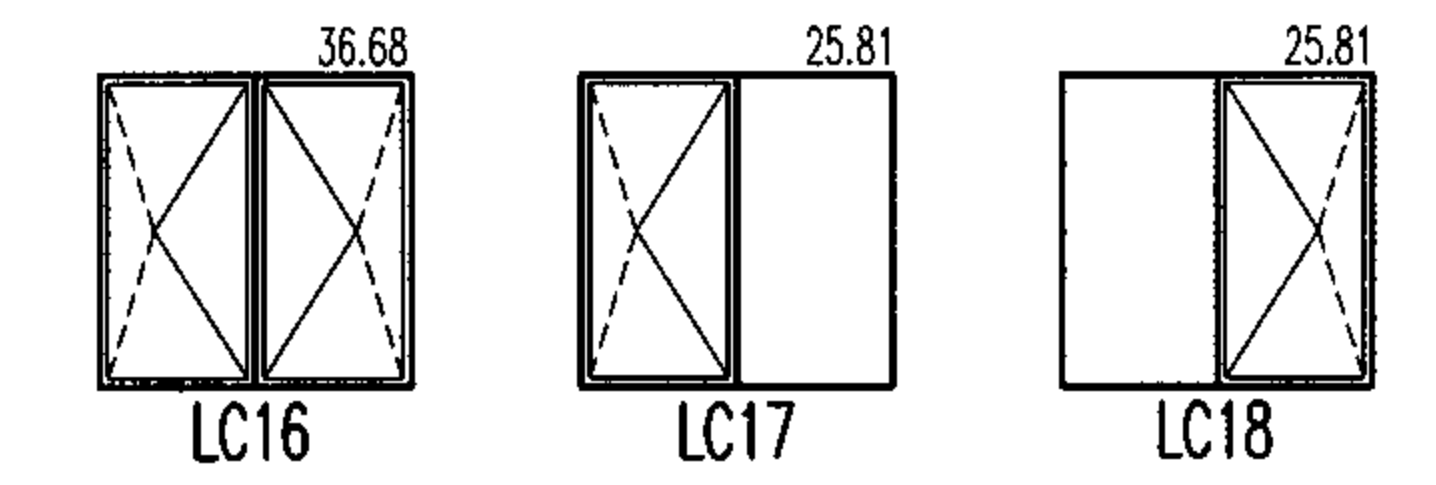
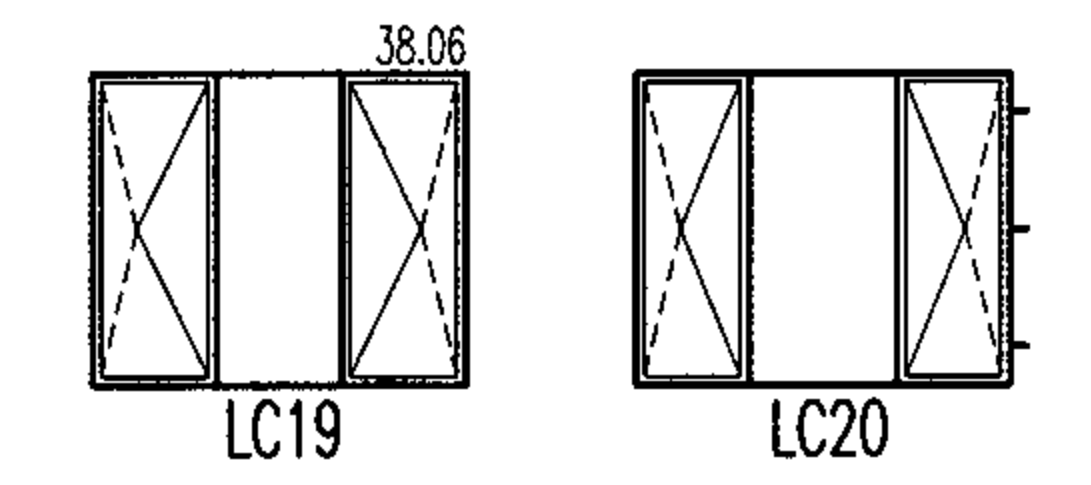
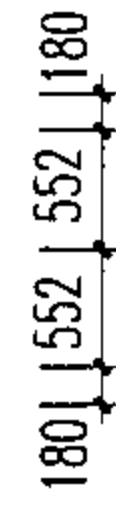
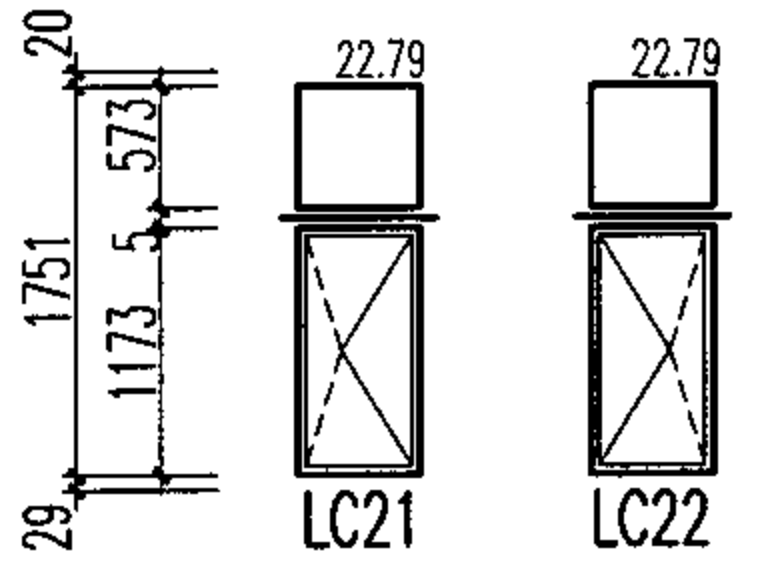
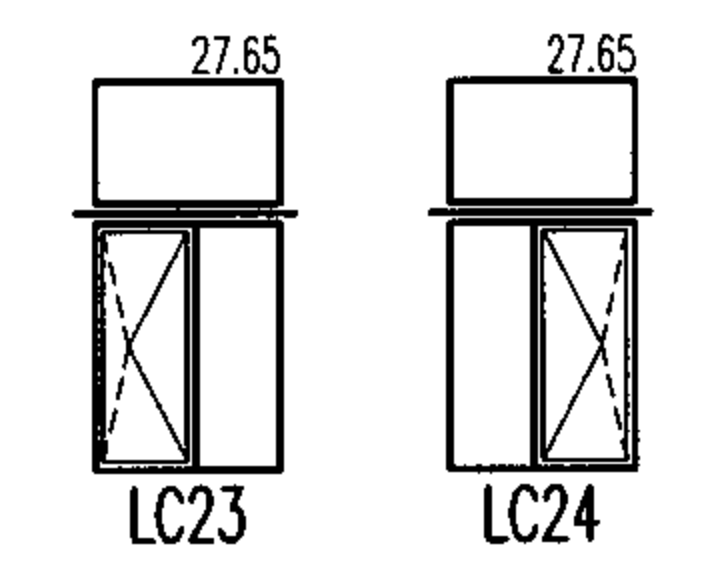
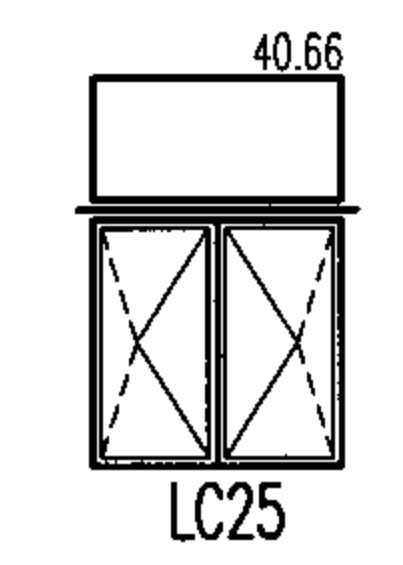
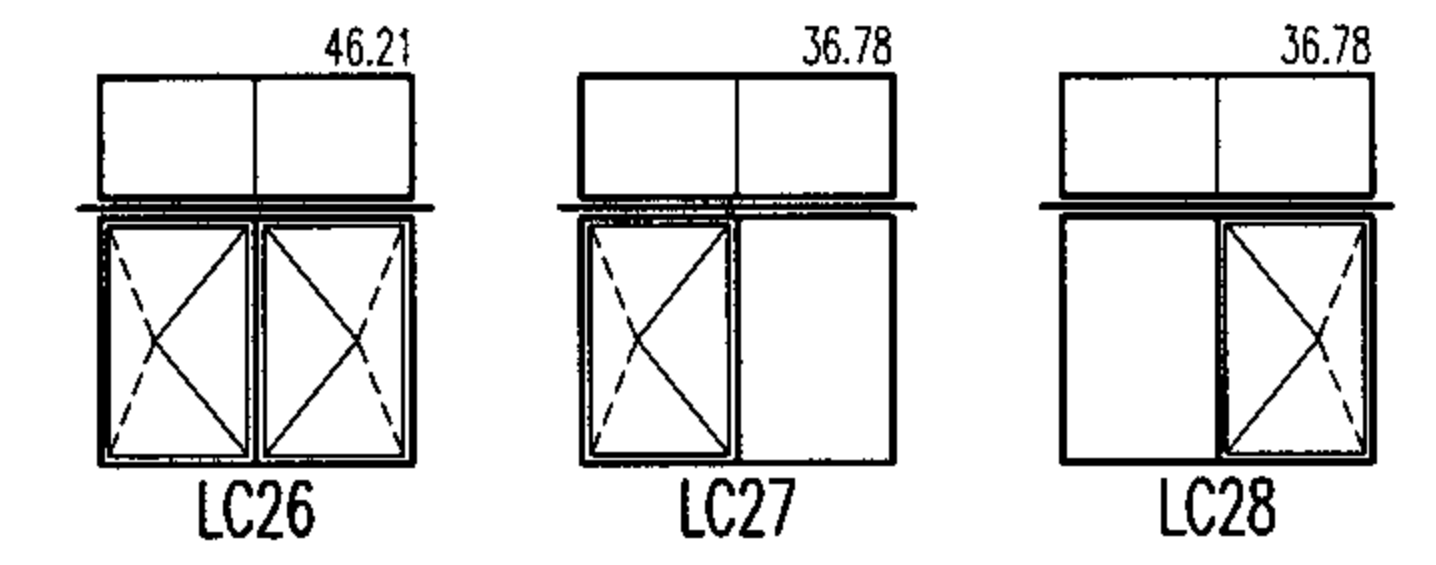
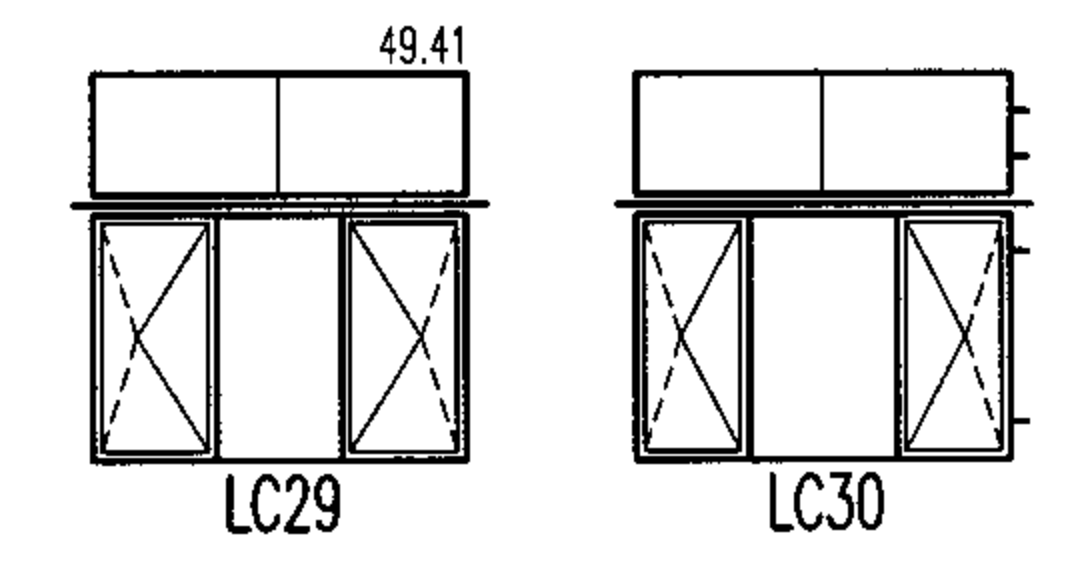
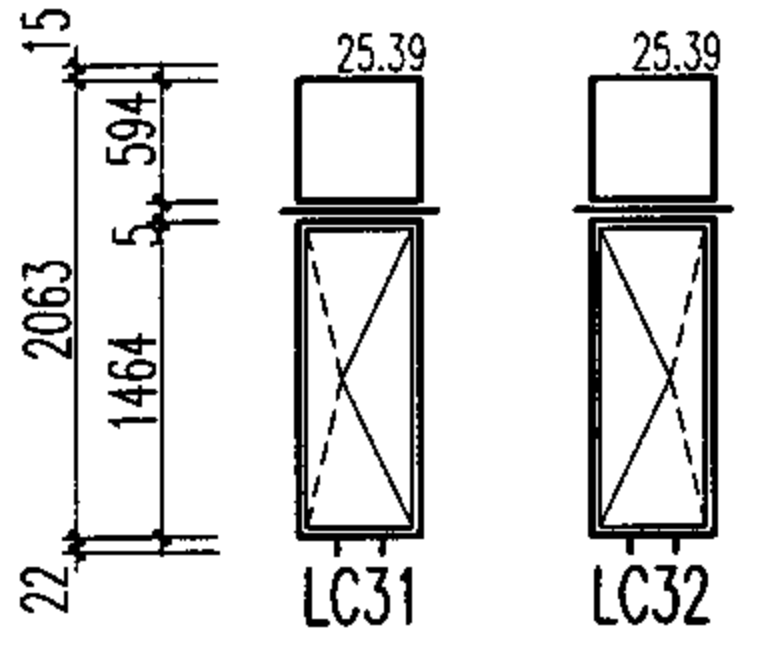
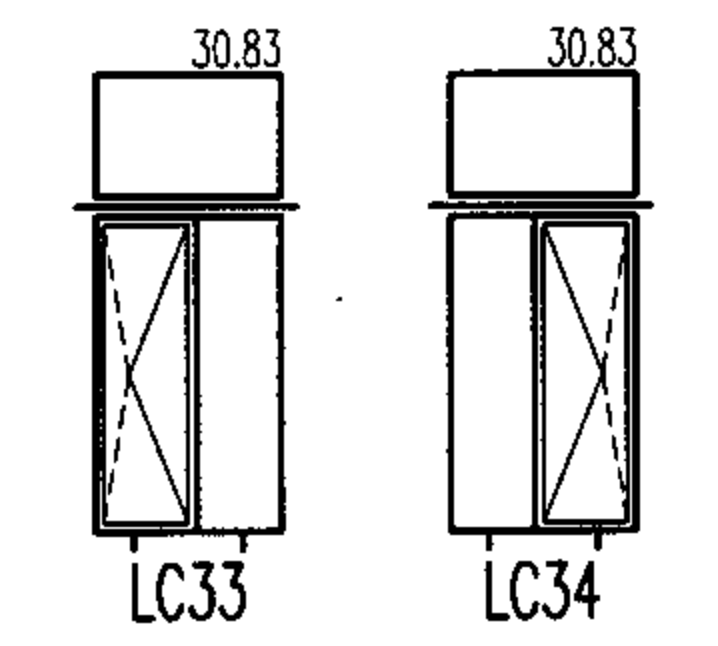
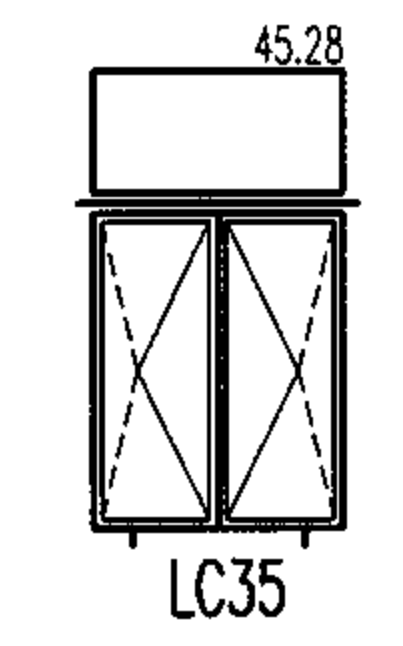
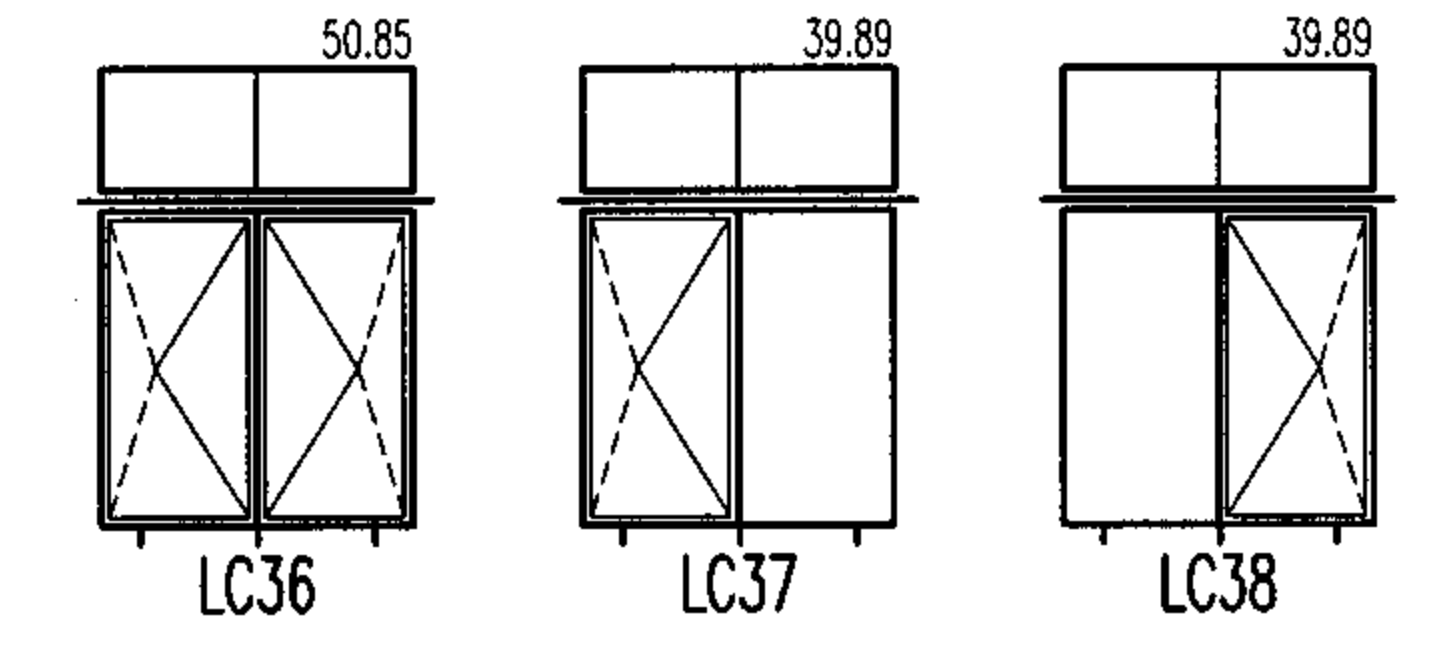
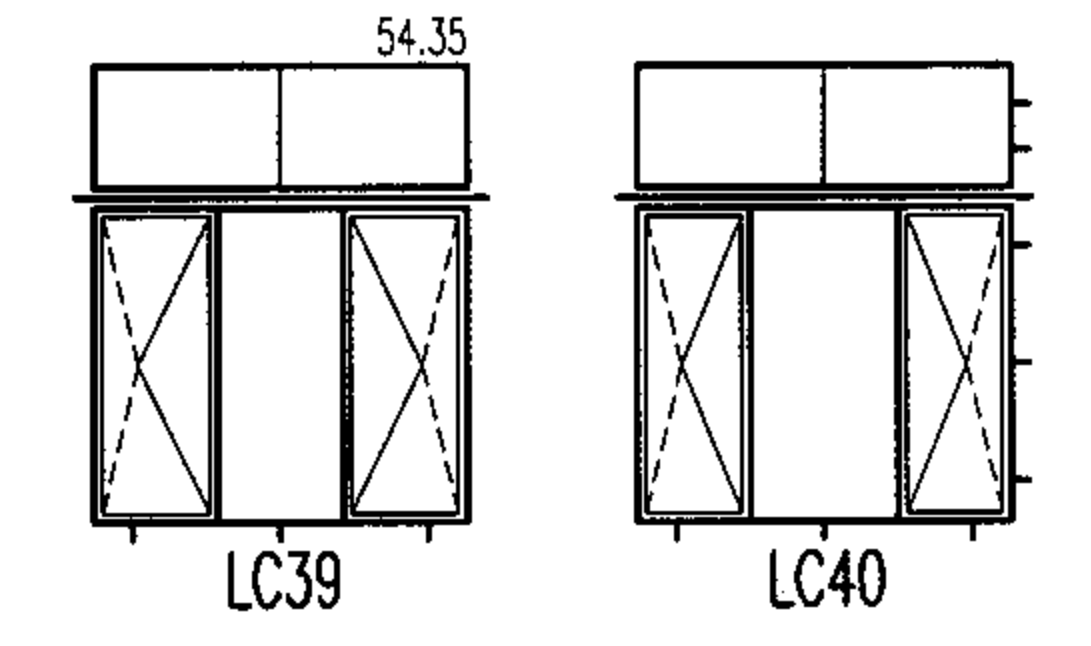
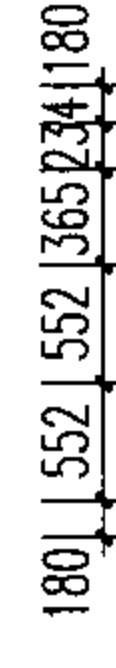
设计

刘坤

刘坤

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洞口	600	900	1200	1500	1800	铁脚位置
1200						
1500						
1800						
2100						
铁脚位置	180 213 180	180 513 180	180 813 180	180 552 552 180	180 696 696 180	

注：仅1500mm洞口宽度的立转窗，窗扇圆芯铰链中心位置距离外框250mm。
其余窗扇圆芯铰链中心位置距离外框140mm。

LC立转窗

图集号

04J602-1

审核 郭景

设计 孙钢男

校对 李力

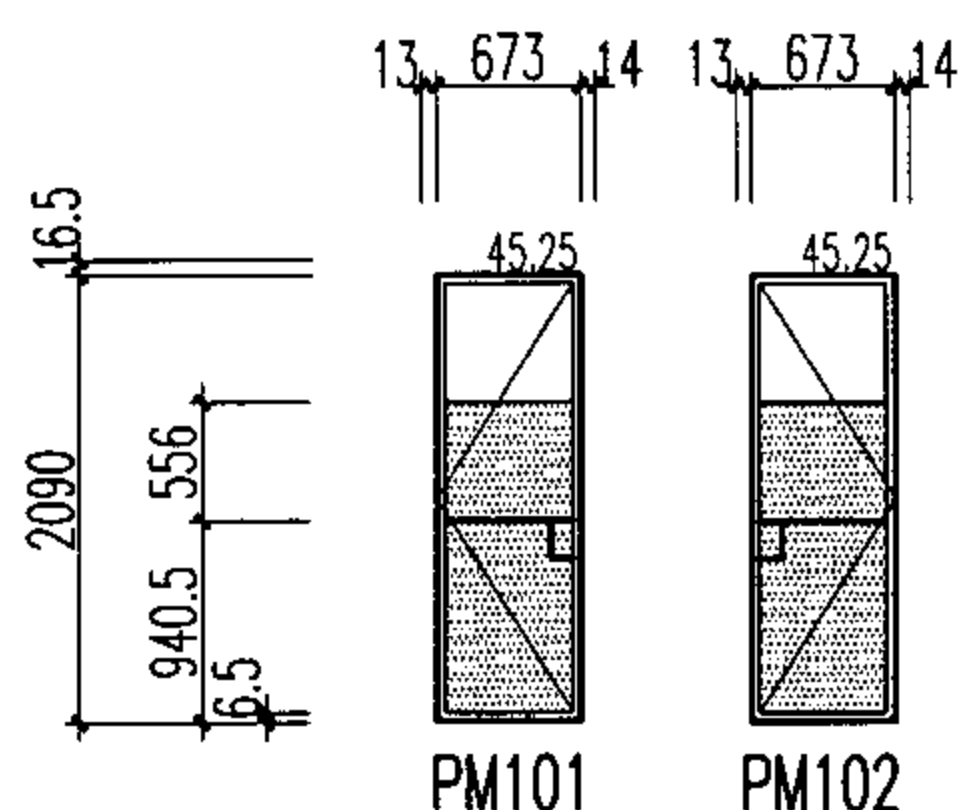
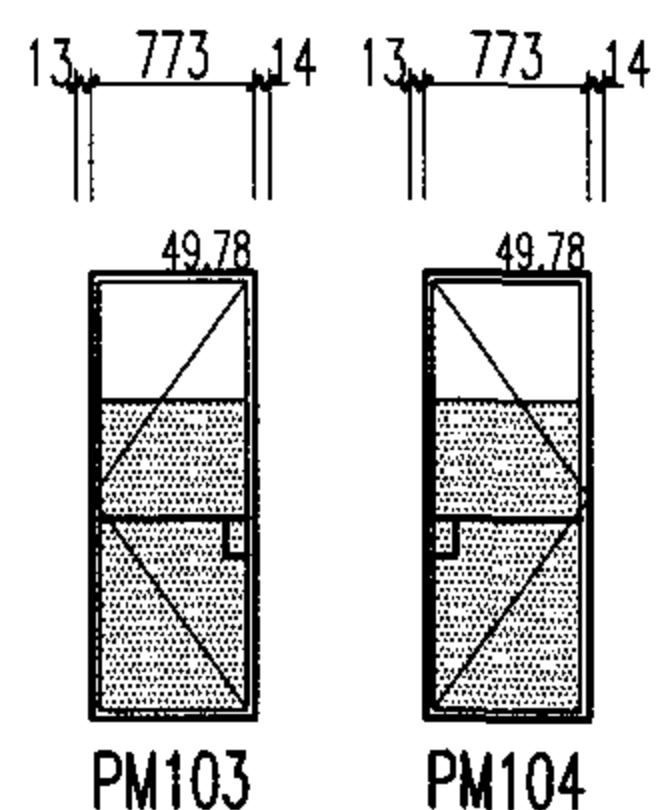
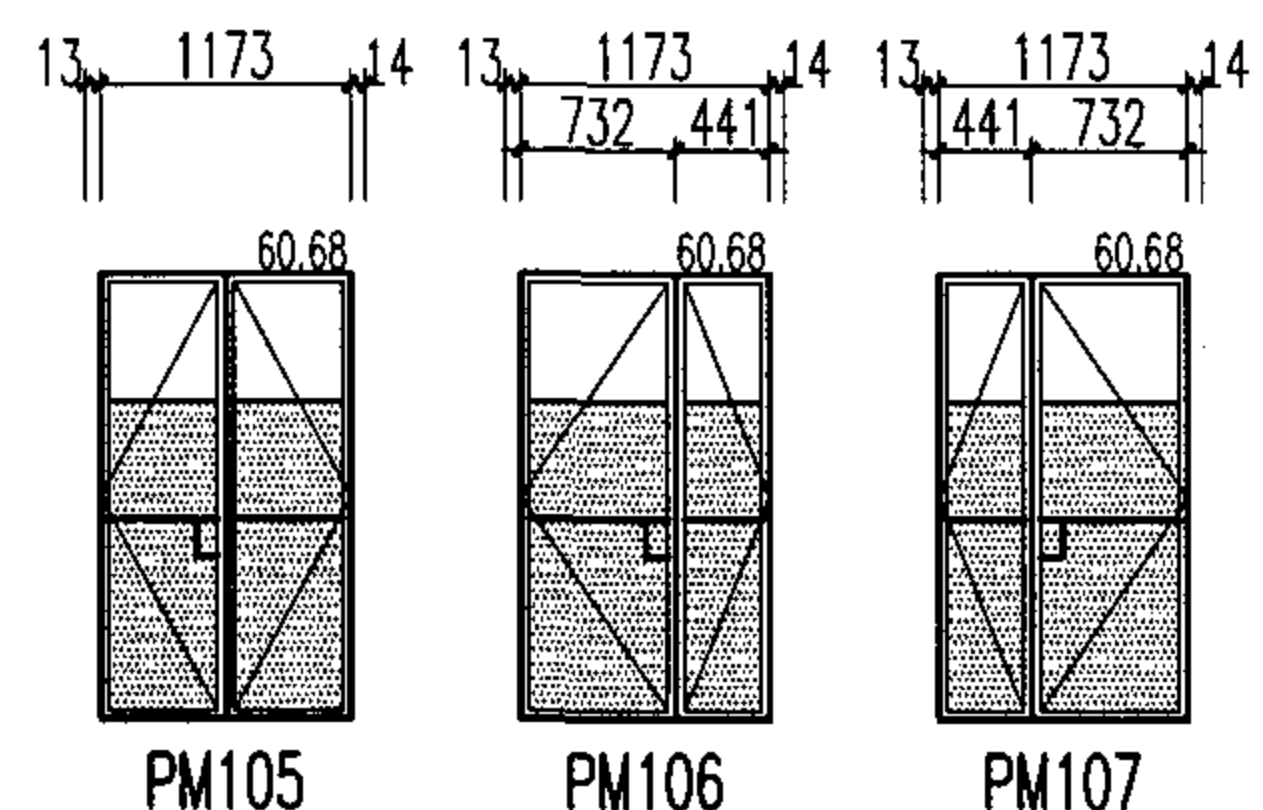
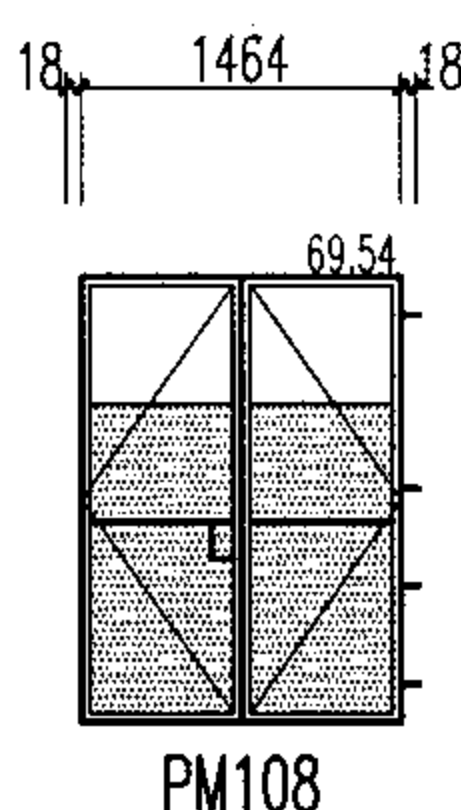
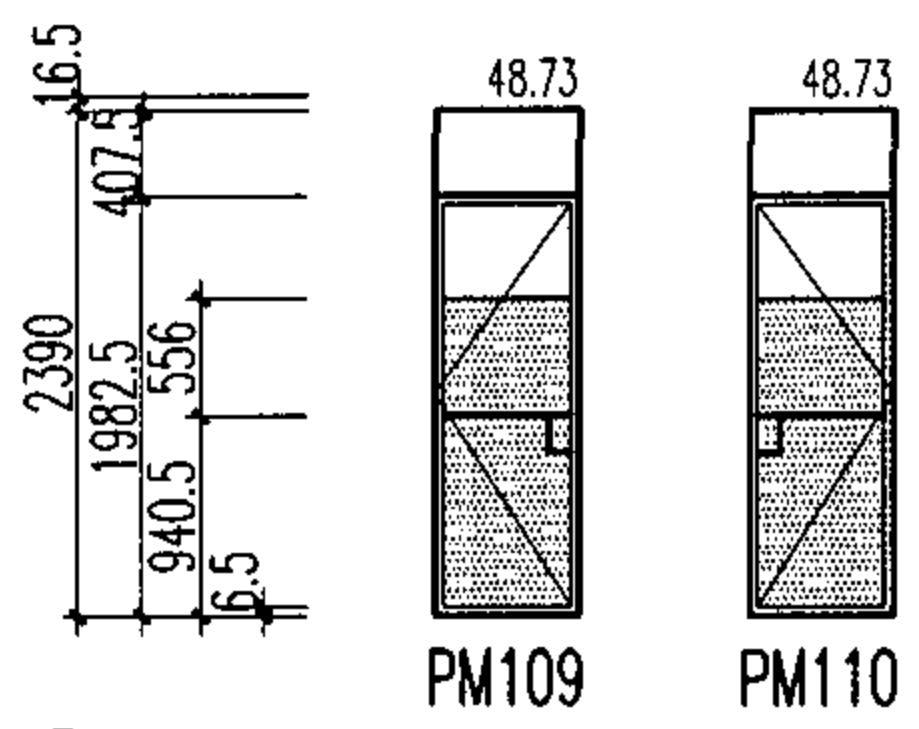
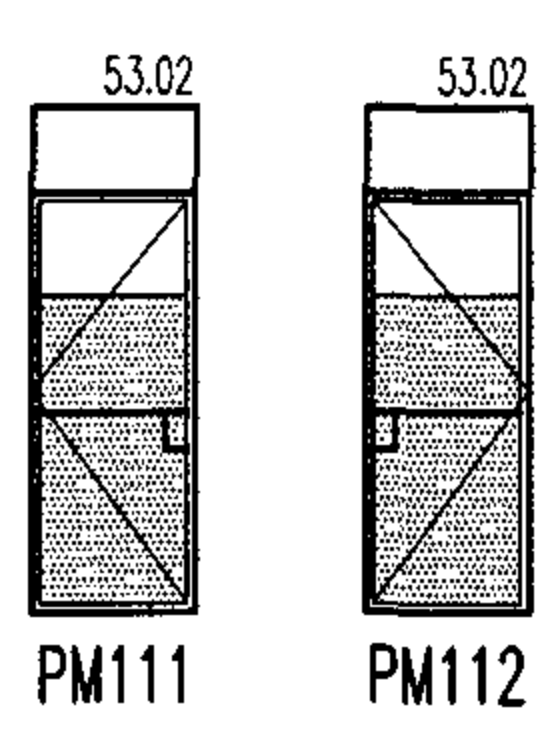
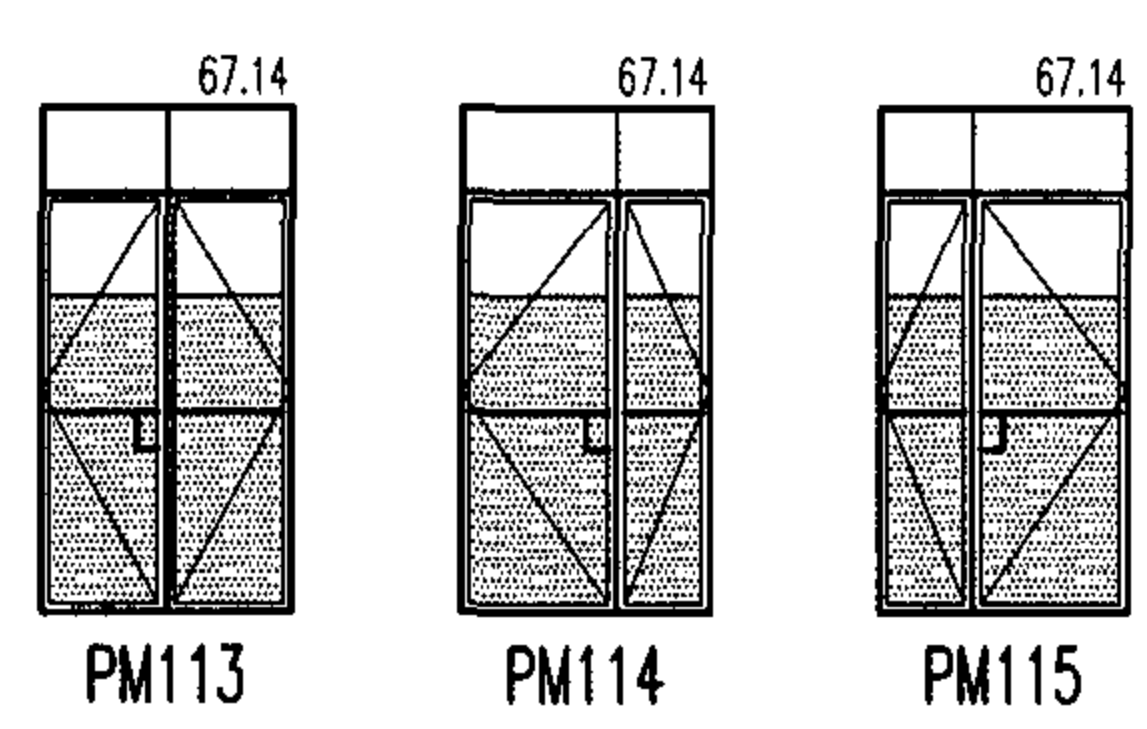
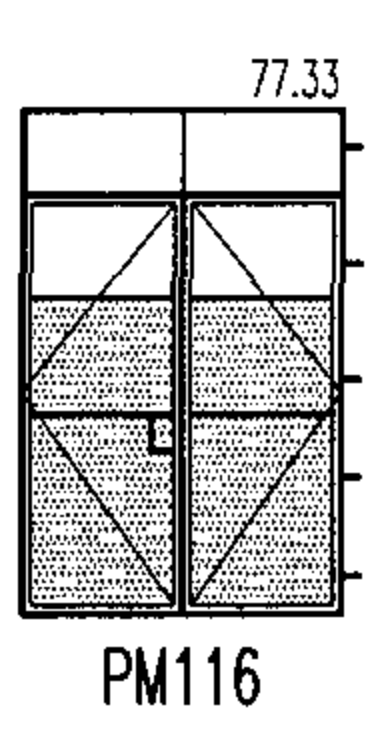
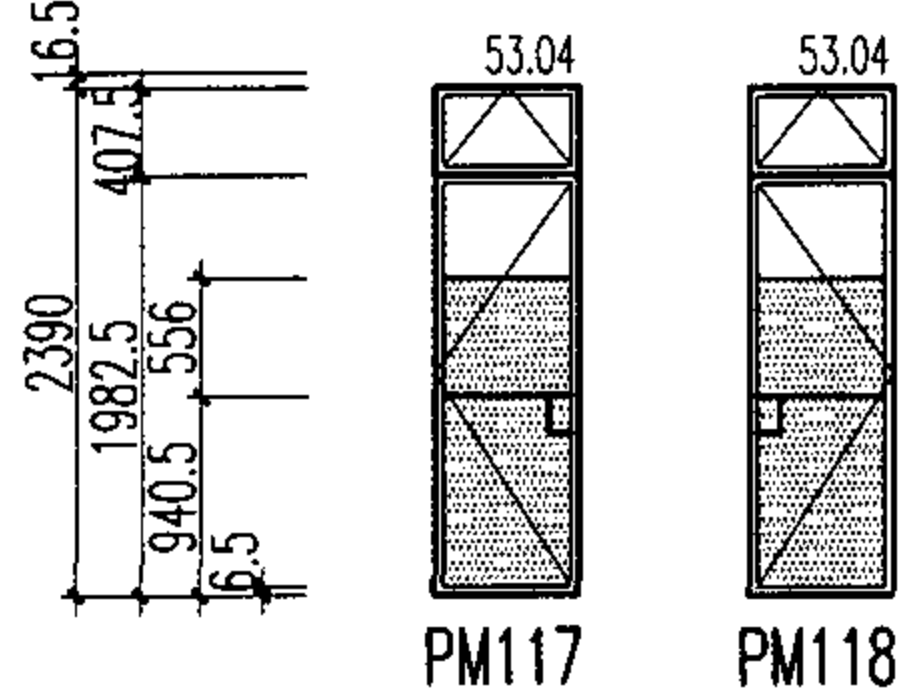
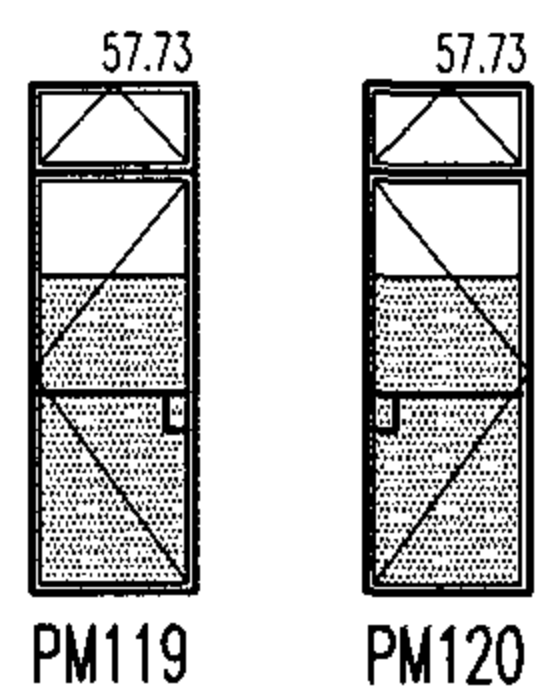
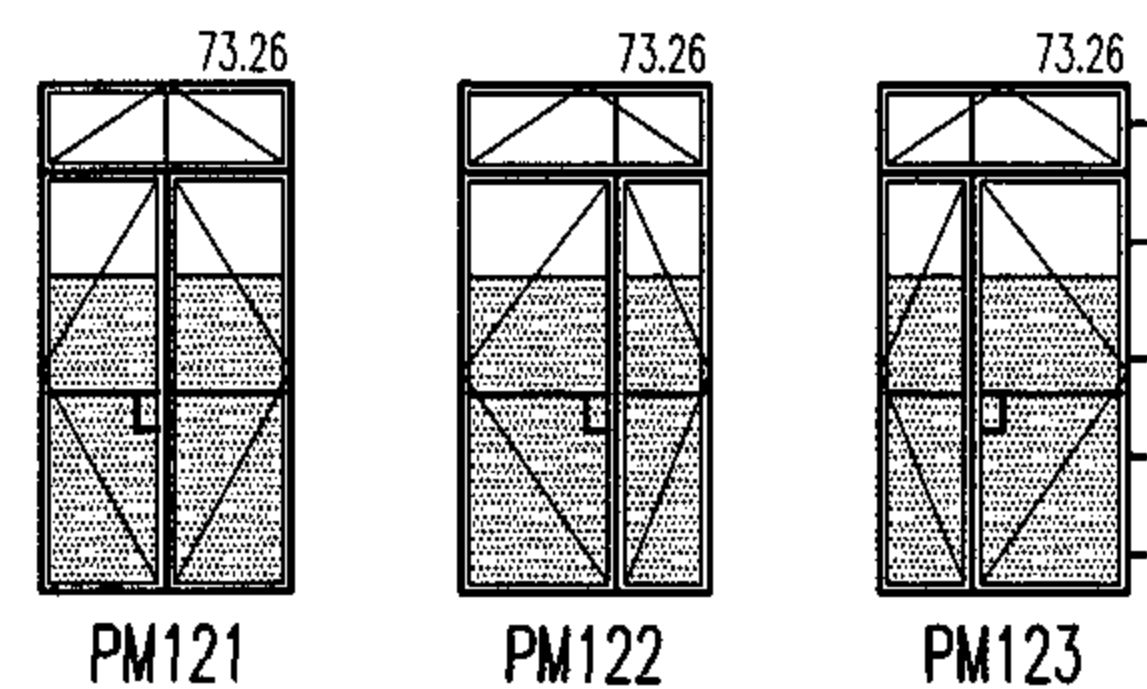
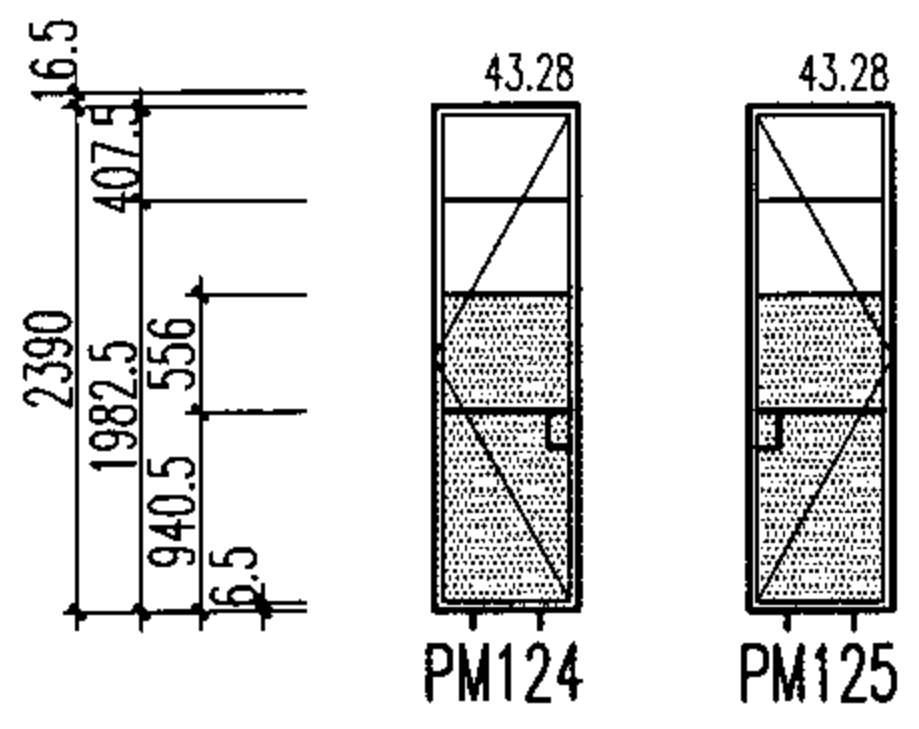
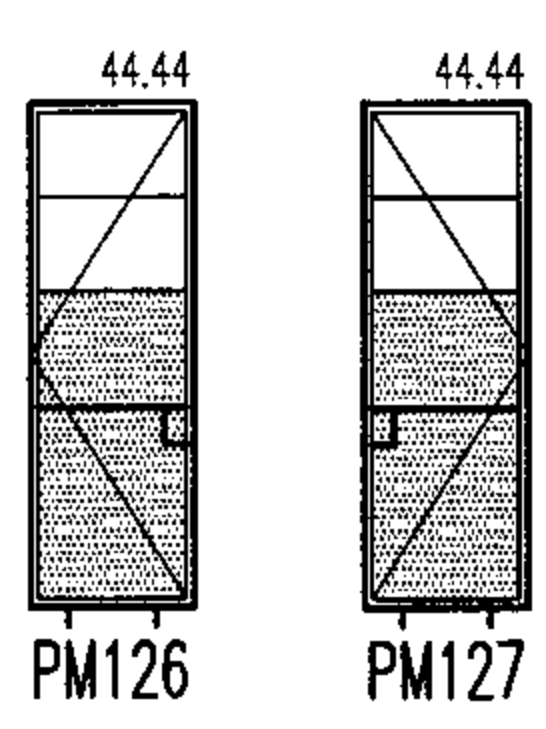
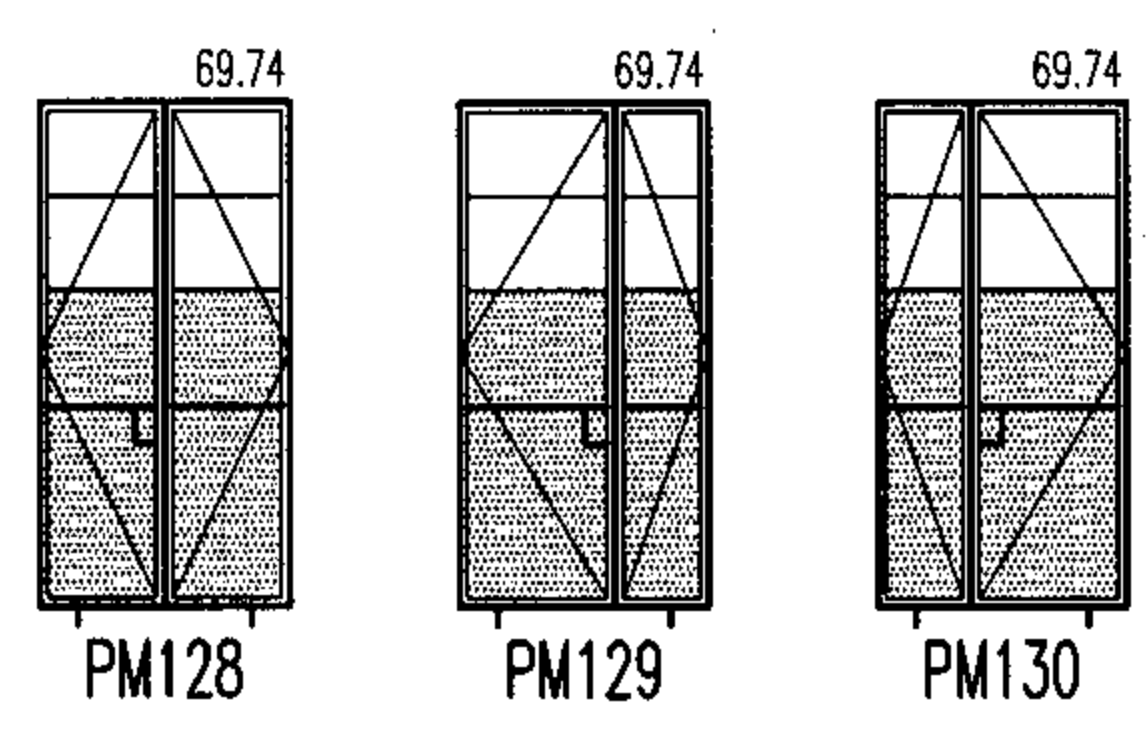
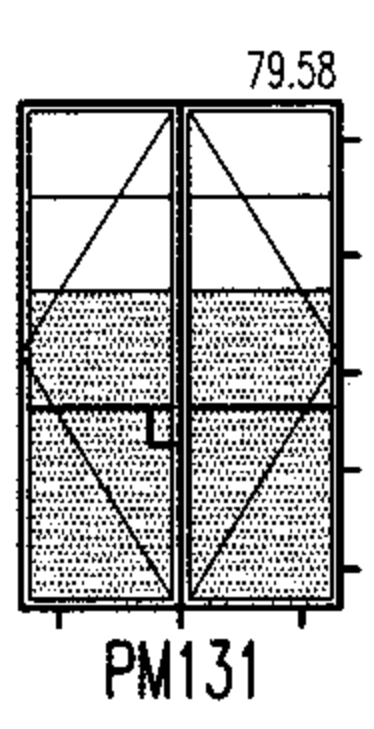
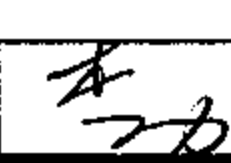
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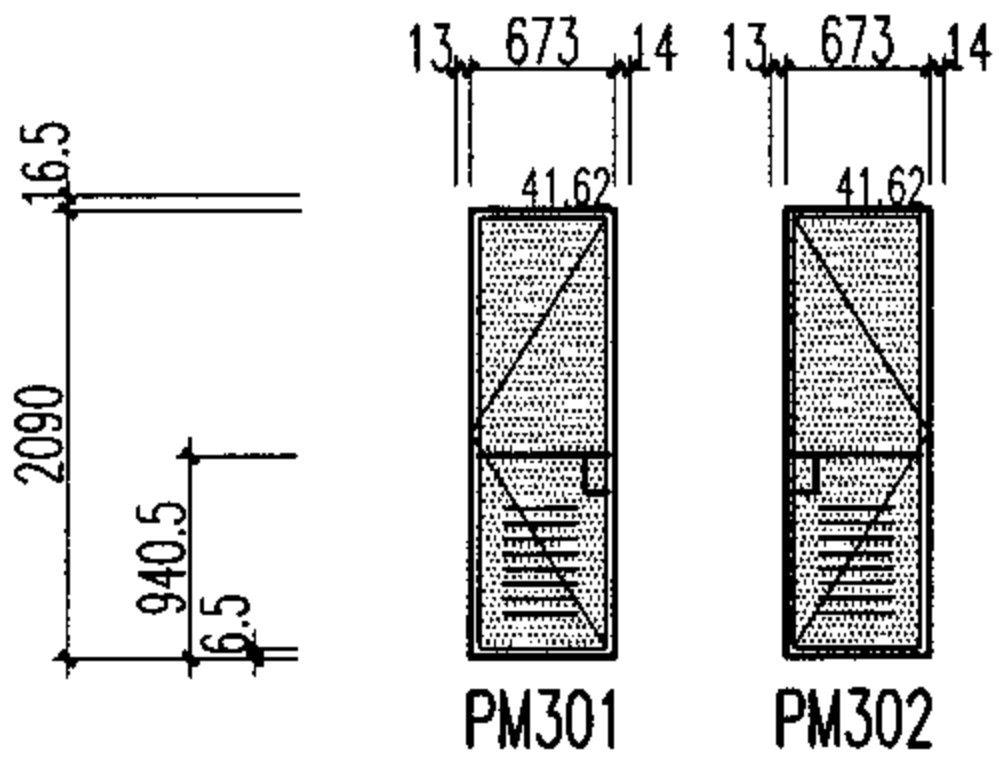
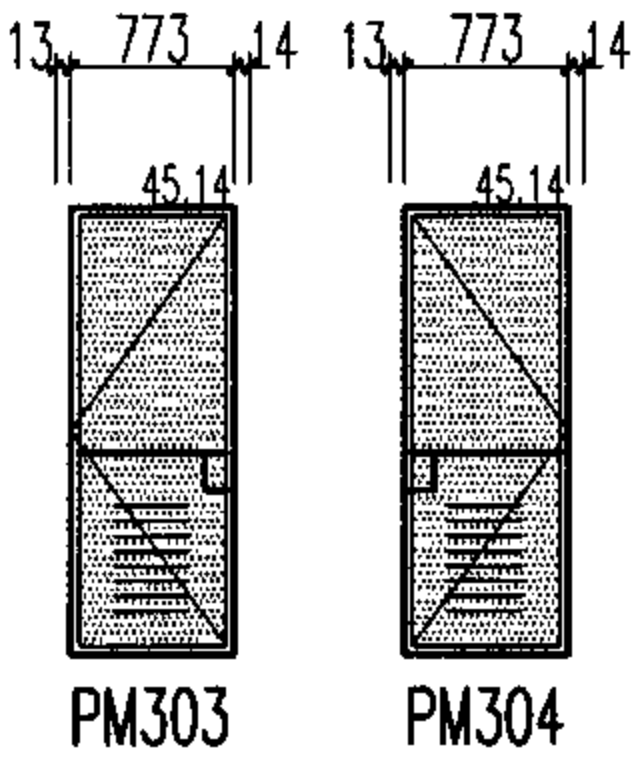
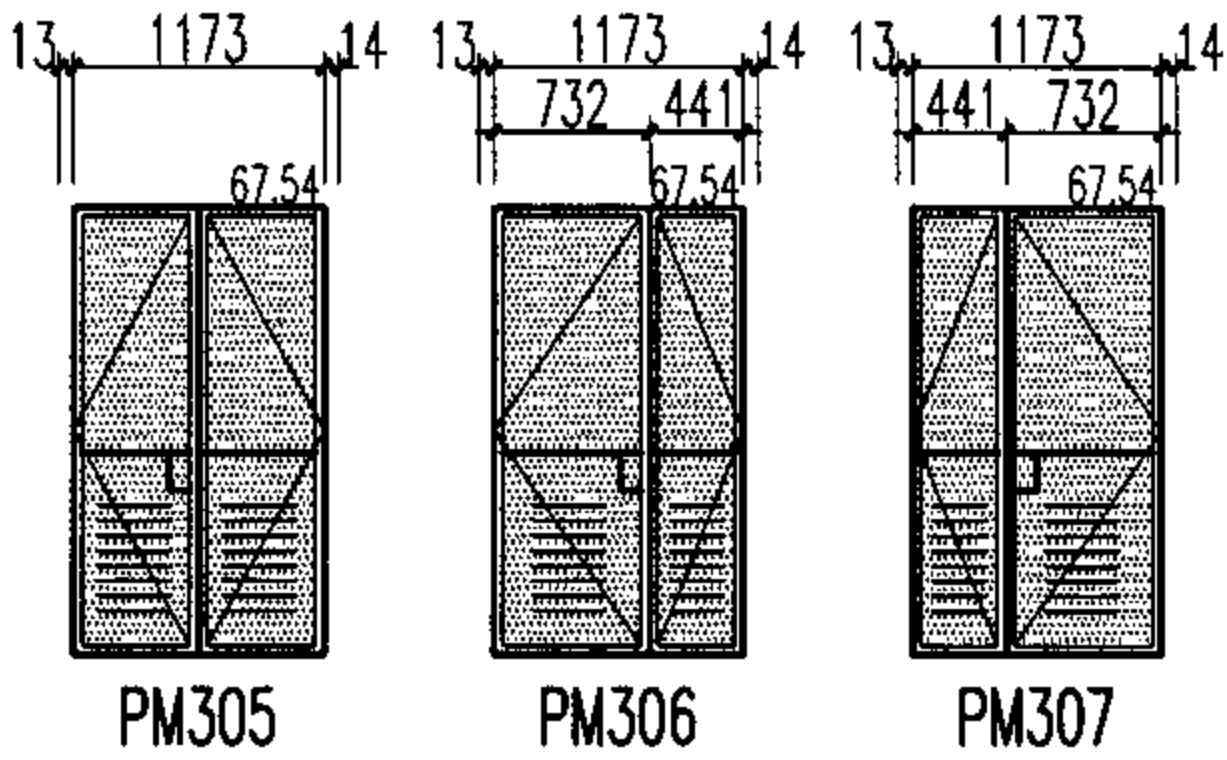
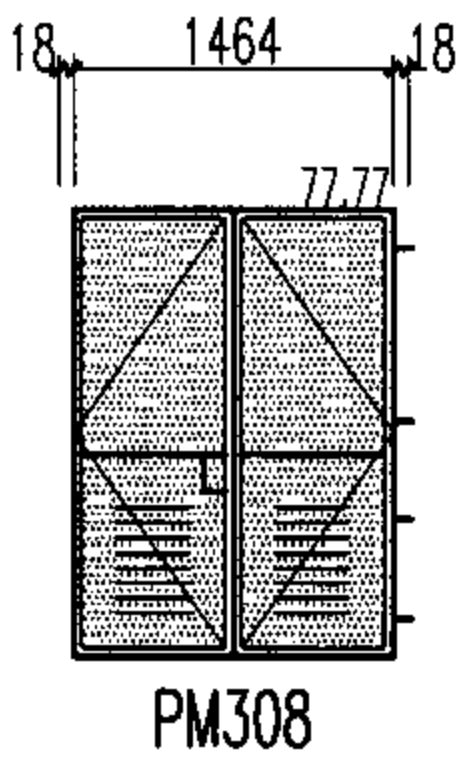
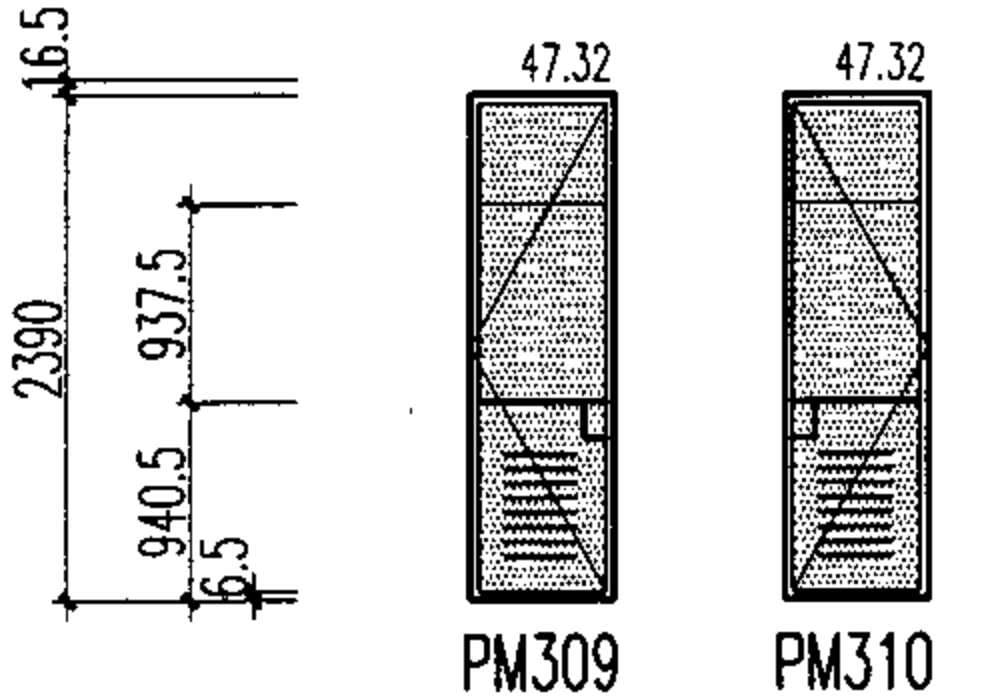
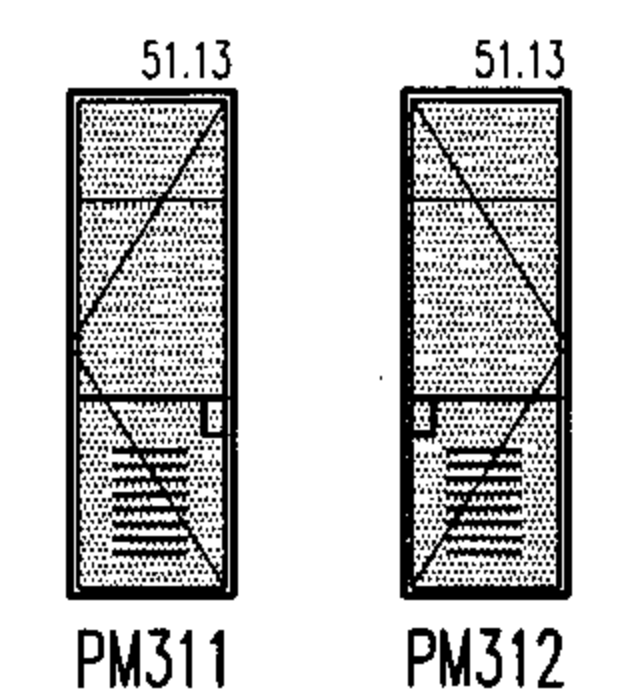
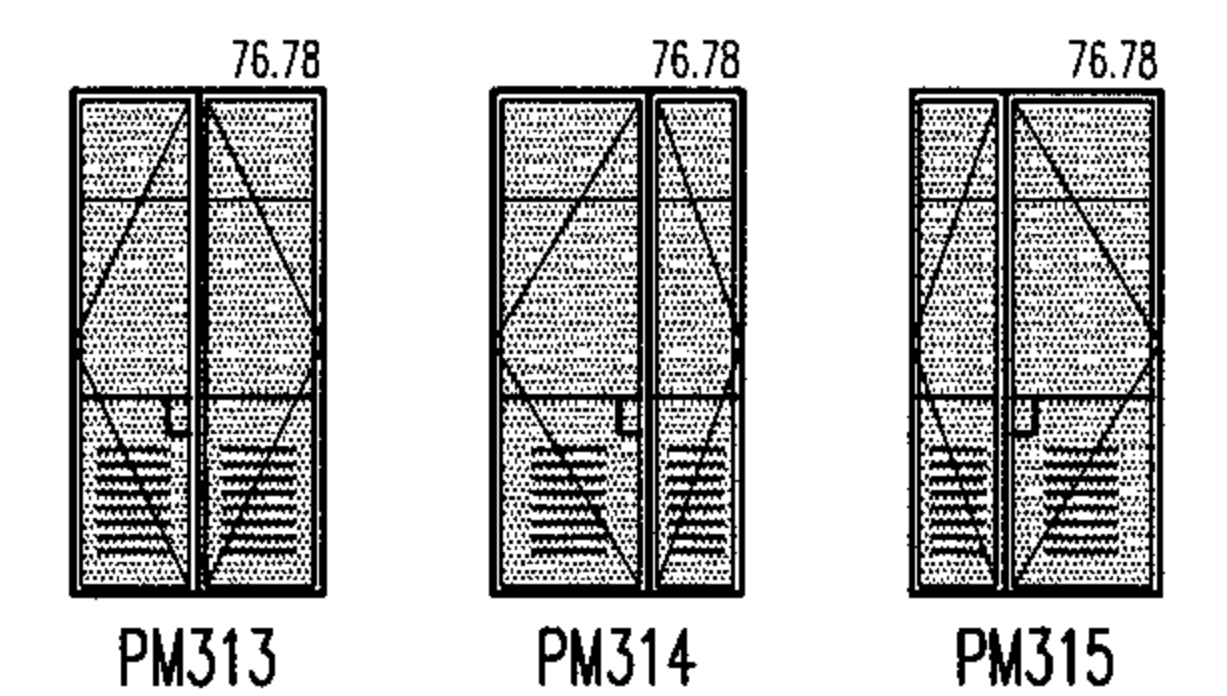
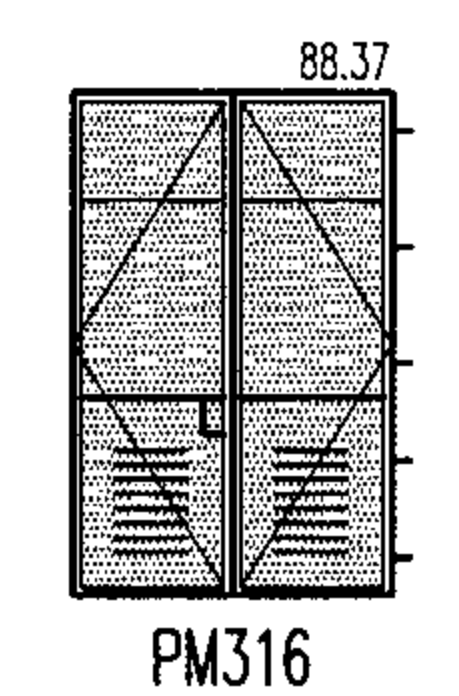
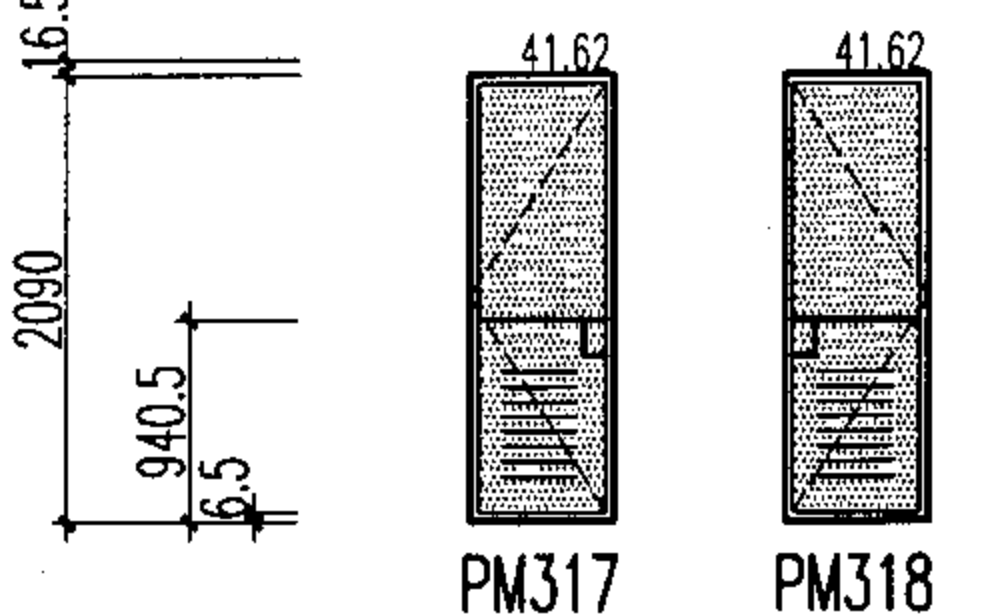
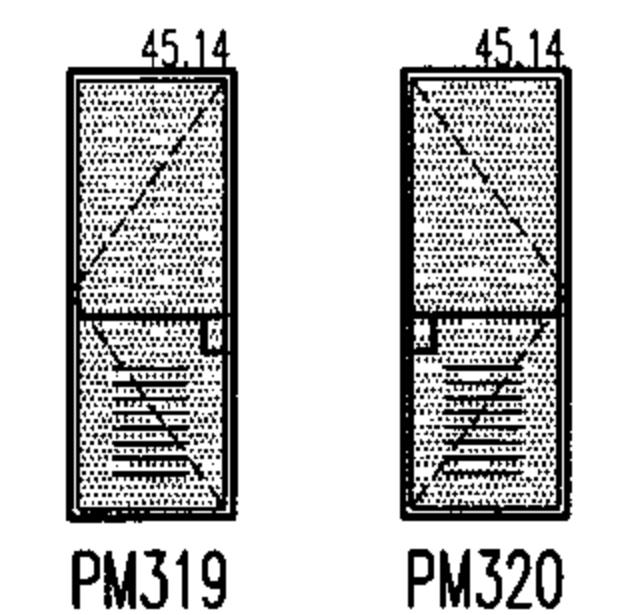
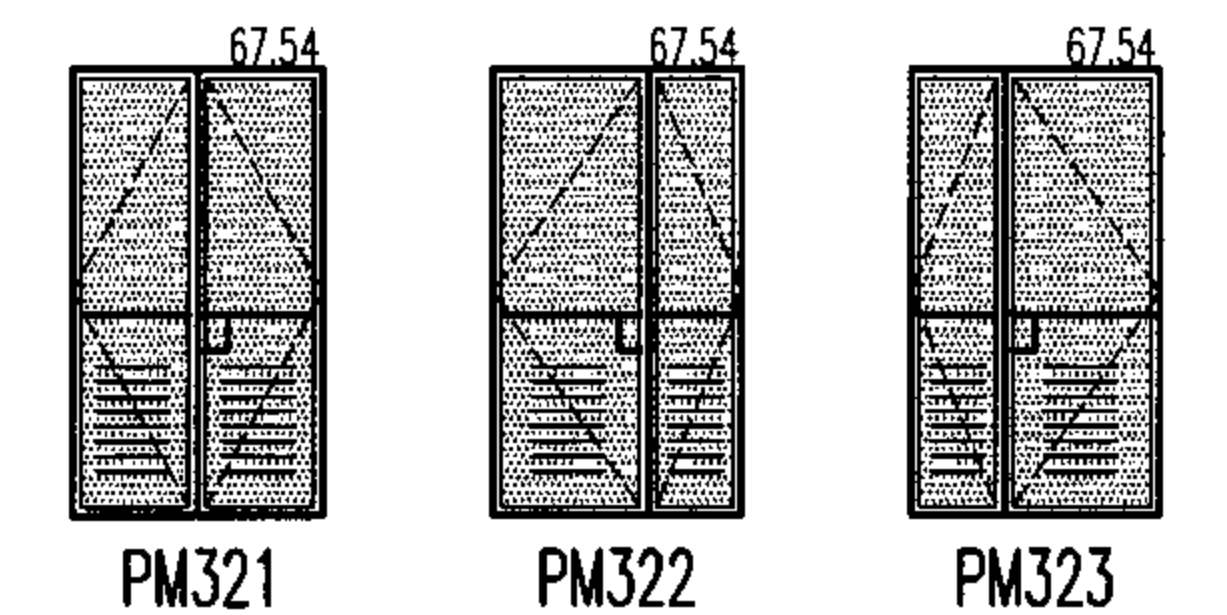
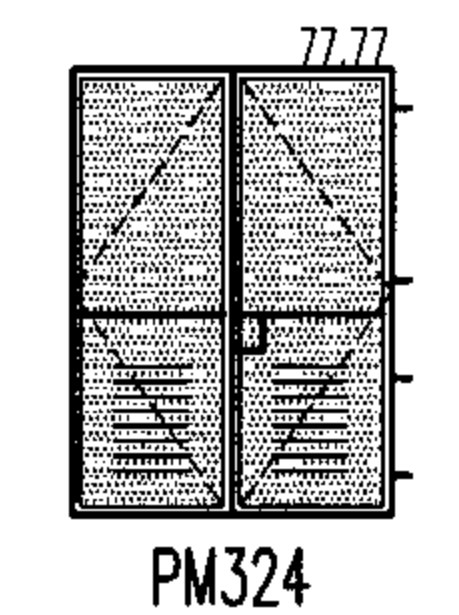
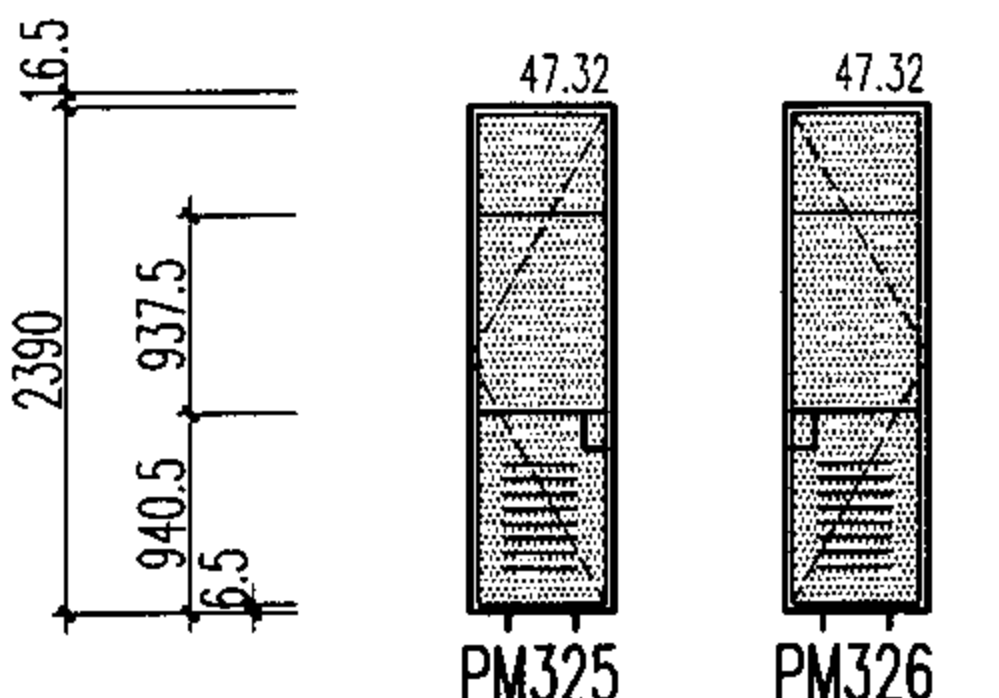
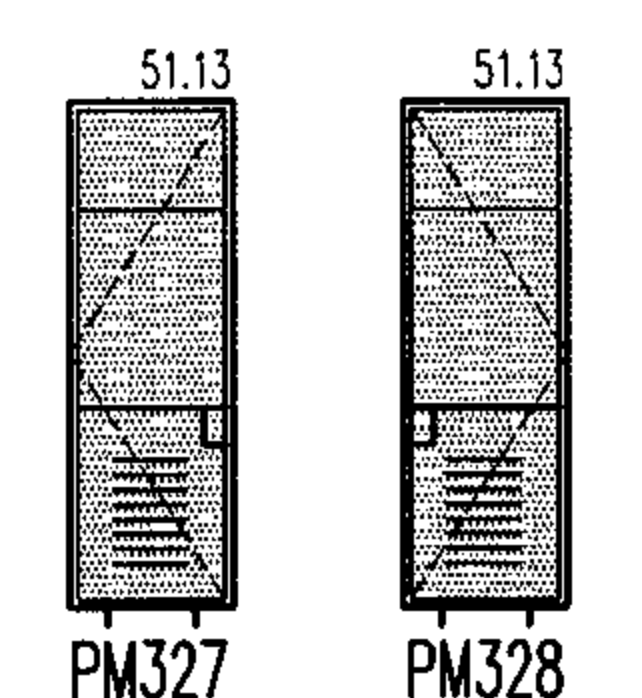
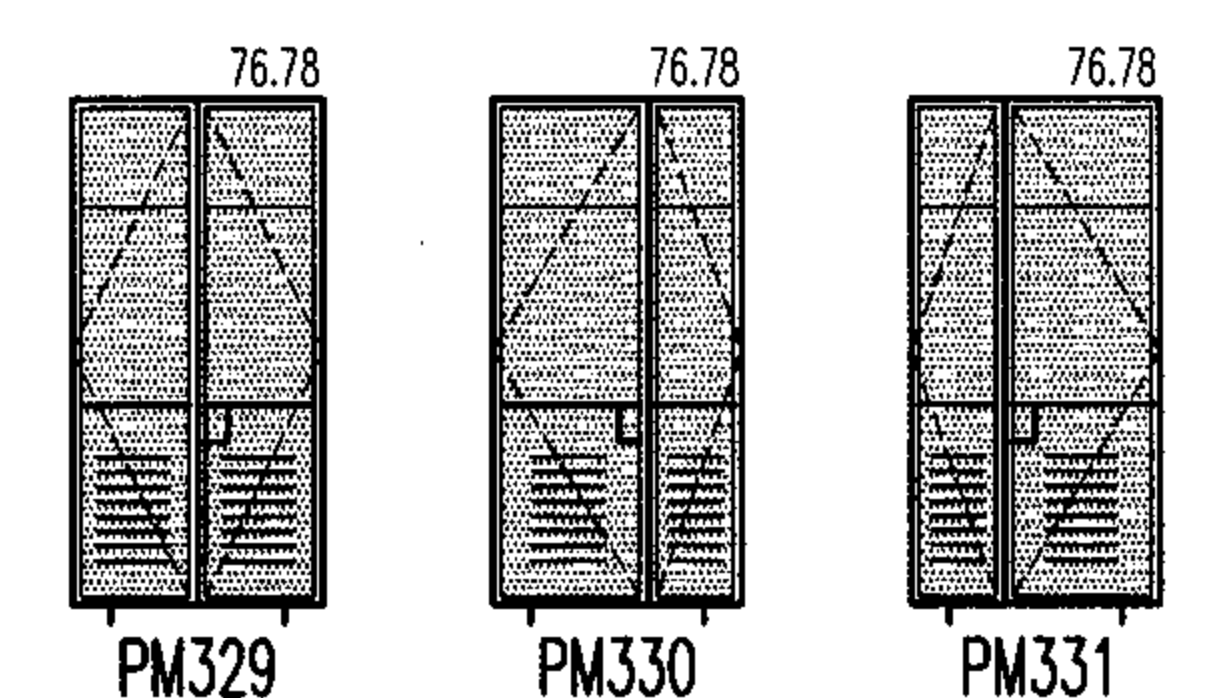
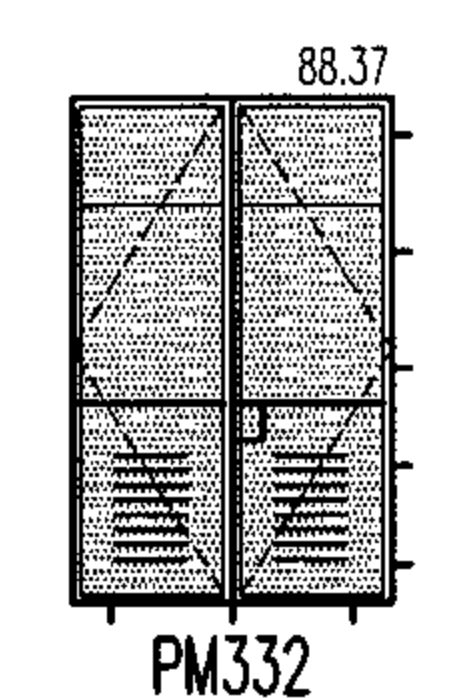
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洞口	700	800	1200	1500	铁脚位置
2100	 PM101 PM102	 PM103 PM104	 PM105 PM106 PM107	 PM108	180 458.5 458.5 813 180
2400	 PM109 PM110	 PM111 PM112	 PM113 PM114 PM115	 PM116	180 463 463 552 552 180
	 PM117 PM118	 PM119 PM120	 PM121 PM122 PM123		
	 PM124 PM125	 PM126 PM127	 PM128 PM129 PM130	 PM131	
铁脚位置	180 513 180	180 513 180	180 813 180	180 552 552 180	
PM镶玻璃钢板门				图集号	04J602-1
审核 郭景  校对 李力  设计 孙钢男 				页	15

洞口		700		800		1200			1500			铁脚位置			
2100												180 458.5 458.5 813 180			
		PM132	PM133	PM134	PM135	PM136	PM137	PM138	PM139						
		2400												180 463 463 552 552 180	
				PM140	PM141	PM142	PM143	PM144	PM145	PM146	PM147				
													180 463 463 552 552 180		
	PM148			PM149	PM150	PM151	PM152	PM153	PM154	PM155					
											180 552 552 180				
		PM156	PM157	PM158	PM159	PM160	PM161	PM162							
铁脚位置		180 313 180		180 513 180		180 813 180			180 552 552 180						
PM镶玻璃钢板门(内开)										图集号		04J602-1			
审核 郭景										校对 李力	设计 孙钢男	页	16		

洞口	700	800	1200	1500	铁脚位置
2100 外开	13 673 14 41.62 PM201 13 673 14 41.62 PM202	13 773 14 45.14 PM203 13 773 14 45.14 PM204	13 1173 14 67.54 PM205 13 1173 14 67.54 PM206 13 1173 14 67.54 PM207	18 1464 18 77.77 PM208	180 458.5 813 180
2400 外开	16.5 2090 940.5 6.5 13 673 14 41.62 PM201 13 673 14 41.62 PM202	16.5 2090 940.5 6.5 13 773 14 45.14 PM203 13 773 14 45.14 PM204	16.5 2090 940.5 6.5 13 1173 14 67.54 PM205 13 1173 14 67.54 PM206 13 1173 14 67.54 PM207	16.5 2090 940.5 6.5 18 1464 18 77.77 PM208	180 463 463 552 180
2100 内开	16.5 2090 940.5 6.5 13 673 14 41.62 PM217 13 673 14 41.62 PM218	16.5 2090 940.5 6.5 13 773 14 45.14 PM219 13 773 14 45.14 PM220	16.5 2090 940.5 6.5 13 1173 14 67.54 PM221 13 1173 14 67.54 PM222 13 1173 14 67.54 PM223	16.5 2090 940.5 6.5 18 1464 18 77.77 PM224	180 468.5 458.5 813 180
2400 内开	16.5 2390 940.5 937.5 6.5 13 673 14 47.32 PM225 13 673 14 47.32 PM226	16.5 2390 940.5 937.5 6.5 13 773 14 51.51 PM227 13 773 14 51.51 PM228	16.5 2390 940.5 937.5 6.5 13 1173 14 76.78 PM229 13 1173 14 76.78 PM230 13 1173 14 76.78 PM231	16.5 2390 940.5 937.5 6.5 18 1464 18 88.37 PM232	180 463 463 552 552 180
铁脚位置	180 313 180	180 413 180	180 813 180	180 552 552 180	
PM钢板门(外开、内开)					图集号
审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤					页
					04J602-1
					17

洞口	700	800	1200	1500	铁脚位置
2100 外开	 PM301 PM302	 PM303 PM304	 PM305 PM306 PM307	 PM308	180 458.5 458.5 813 180
2400 外开	 PM309 PM310	 PM311 PM312	 PM313 PM314 PM315	 PM316	180 463 463 552 552 180
2100 内开	 PM317 PM318	 PM319 PM320	 PM321 PM322 PM323	 PM324	180 458.5 458.5 813 180
2400 内开	 PM325 PM326	 PM327 PM328	 PM329 PM330 PM331	 PM332	180 463 463 552 552 180
铁脚位置	180 313 180	180 413 180	180 813 180	180 552 552 180	

PM百叶钢板门(外开、内开)

审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

洞口	1500	1800				2100		
2100	25 1450 25 673 4 773 2090 16.5 1173 10.5 6.5 CM1 CM2	25 1450 25 773 4 673 2090 16.5 1173 10.5 6.5 CM1 CM2	25 1749 26 1023 3 723 2090 16.5 1173 10.5 6.5 CM3 CM4	25 1749 26 723 3 1023 2090 16.5 1173 10.5 6.5 CM3 CM4	25 1750 25 973 4 773 2090 16.5 1173 10.5 6.5 CM5 CM6	25 1750 25 773 4 973 2090 16.5 1173 10.5 6.5 CM5 CM6	25 2050 25 1273 4 773 2090 16.5 1173 10.5 6.5 CM7 CM8	25 2050 25 773 4 1273 2090 16.5 1173 10.5 6.5 CM7 CM8
2400	25 1450 25 673 4 773 2390 16.5 1464 19.5 6.5 CM9 CM10	25 1450 25 773 4 673 2390 16.5 1464 19.5 6.5 CM9 CM10	25 1749 26 1023 3 723 2390 16.5 1464 19.5 6.5 CM11 CM12	25 1749 26 723 3 1023 2390 16.5 1464 19.5 6.5 CM11 CM12	25 1750 25 973 4 773 2390 16.5 1464 19.5 6.5 CM13 CM14	25 1750 25 773 4 973 2390 16.5 1464 19.5 6.5 CM13 CM14	25 2050 25 1273 4 773 2390 16.5 1464 19.5 6.5 CM15 CM16	25 2050 25 773 4 1273 2390 16.5 1464 19.5 6.5 CM15 CM16
2700	25 1450 25 673 4 773 2689 17.5 1752 30.5 6.5 CM17 CM18	25 1450 25 773 4 673 2689 17.5 1752 30.5 6.5 CM17 CM18	25 1749 26 1023 3 723 2689 17.5 1752 30.5 6.5 CM19 CM20	25 1749 26 723 3 1023 2689 17.5 1752 30.5 6.5 CM19 CM20	25 1750 25 973 4 773 2689 17.5 1752 30.5 6.5 CM21 CM22	25 1750 25 773 4 973 2689 17.5 1752 30.5 6.5 CM21 CM22	25 2050 25 1273 4 773 2689 17.5 1752 30.5 6.5 CM23 CM24	25 2050 25 773 4 1273 2689 17.5 1752 30.5 6.5 CM23 CM24
3000	25 1450 25 673 4 773 2989 17.5 2043 39.5 6.5 CM25 CM26	25 1450 25 773 4 673 2989 17.5 2043 39.5 6.5 CM25 CM26	25 1749 26 1023 3 723 2989 17.5 2043 39.5 6.5 CM27 CM28	25 1749 26 723 3 1023 2989 17.5 2043 39.5 6.5 CM27 CM28	25 1750 25 973 4 773 2989 17.5 2043 39.5 6.5 CM29 CM30	25 1750 25 773 4 973 2989 17.5 2043 39.5 6.5 CM29 CM30	25 2050 25 1273 4 773 2989 17.5 2043 39.5 6.5 CM31 CM32	25 2050 25 773 4 1273 2989 17.5 2043 39.5 6.5 CM31 CM32

2090

16.5

1173

10.5

6.5

CM3

CM4

CM连窗门（一）

图集号 04J602-1

审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

洞口	2400	3000
2100	CM33 CM34 CM35	CM36 CM37 CM38
2400	CM39 CM40 CM41	CM42 CM43 CM44
2700	CM45 CM46 CM47	CM48 CM49 CM50
3000	CM51 CM52 CM53	CM54 CM55 CM56

CM连窗门（二）

图集号 04J602-1

审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

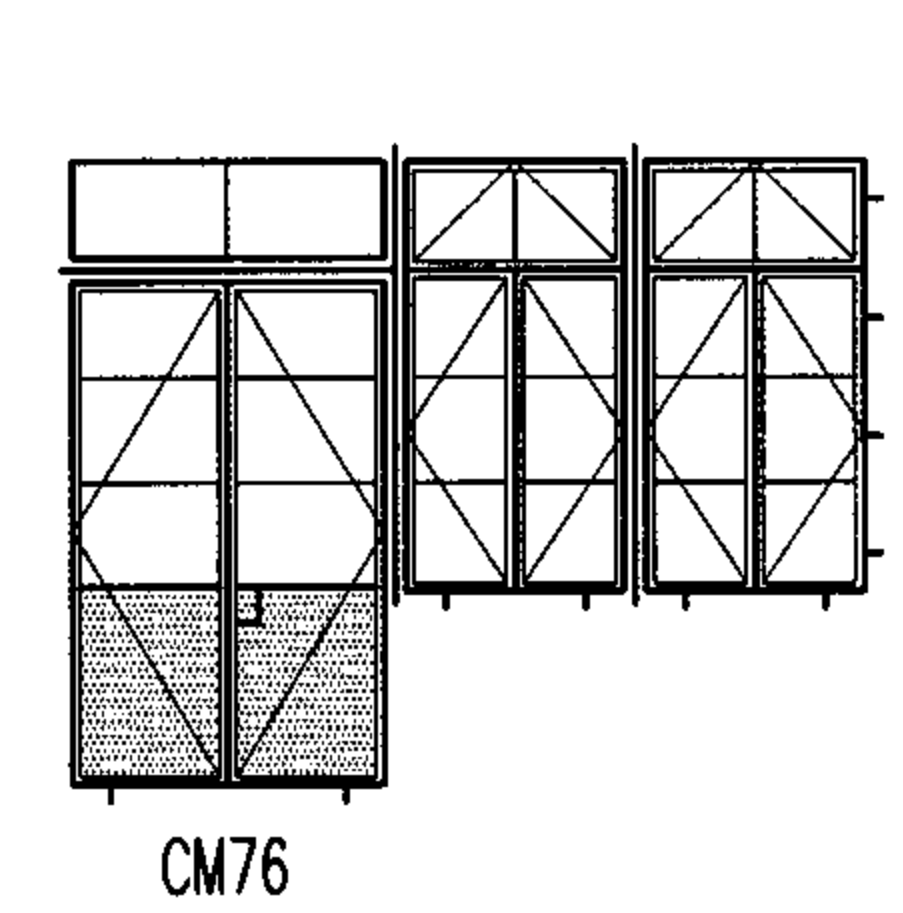
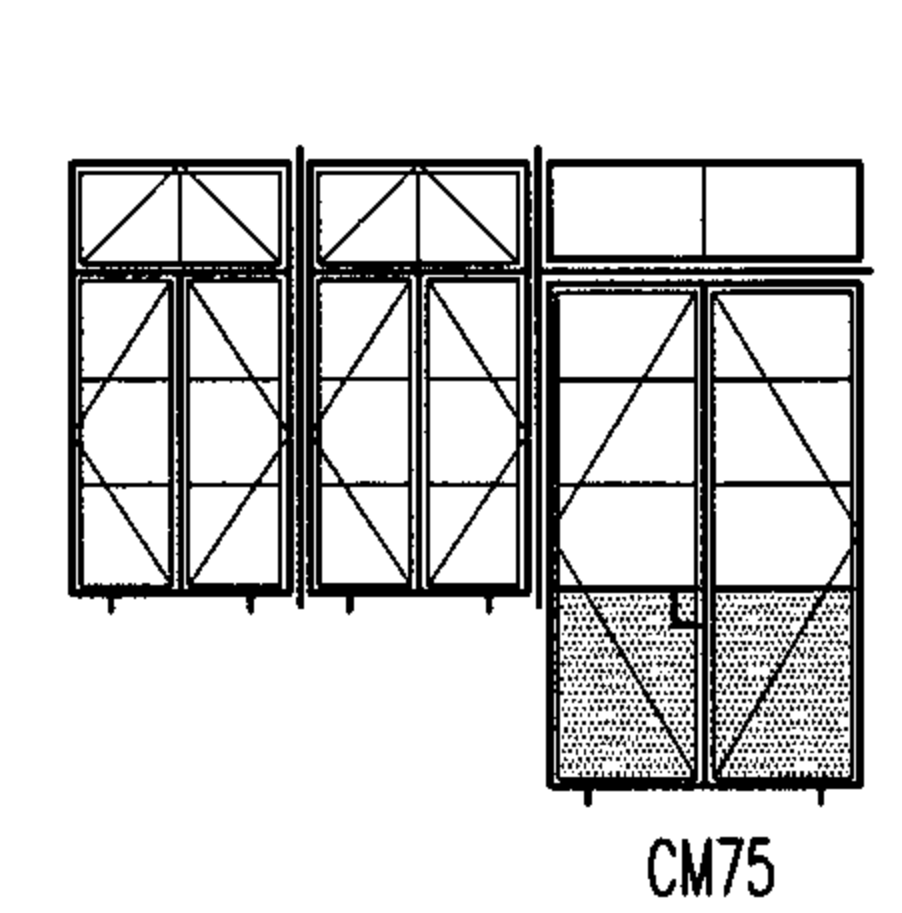
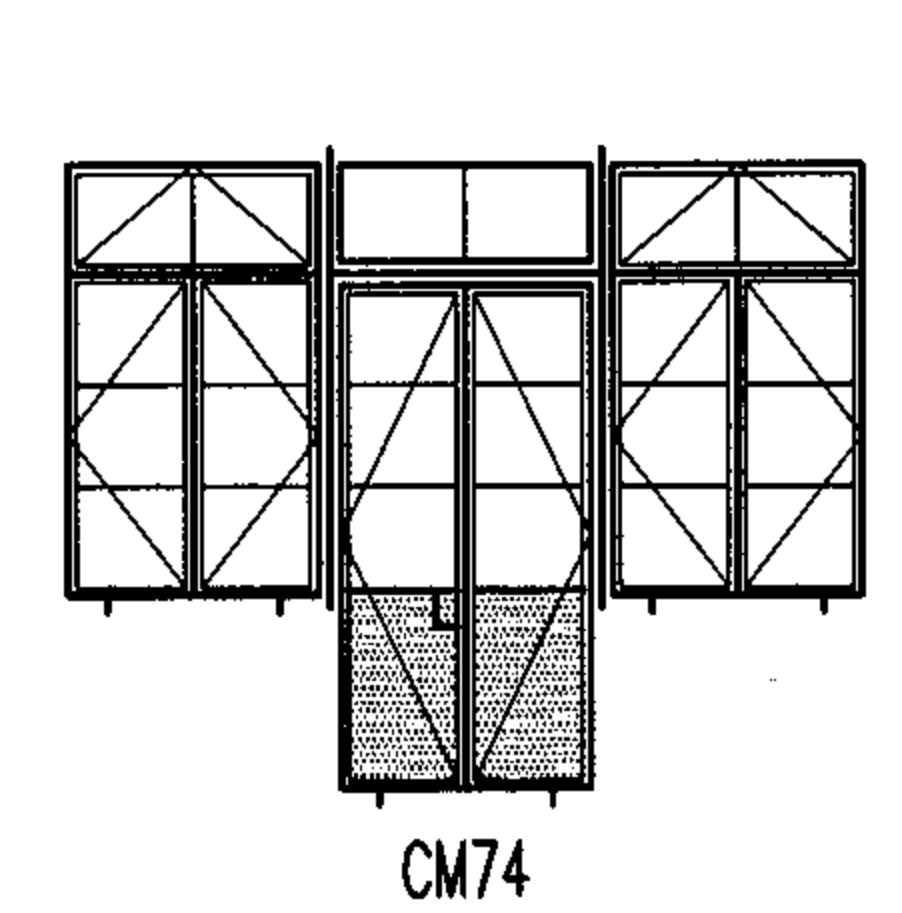
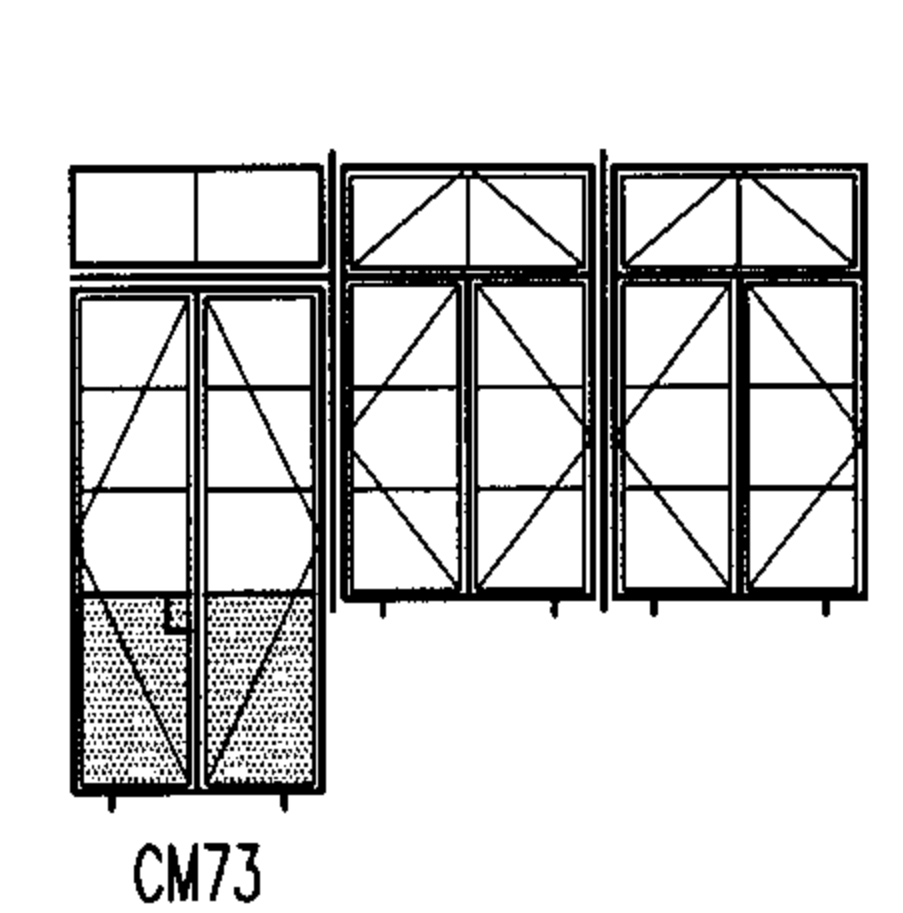
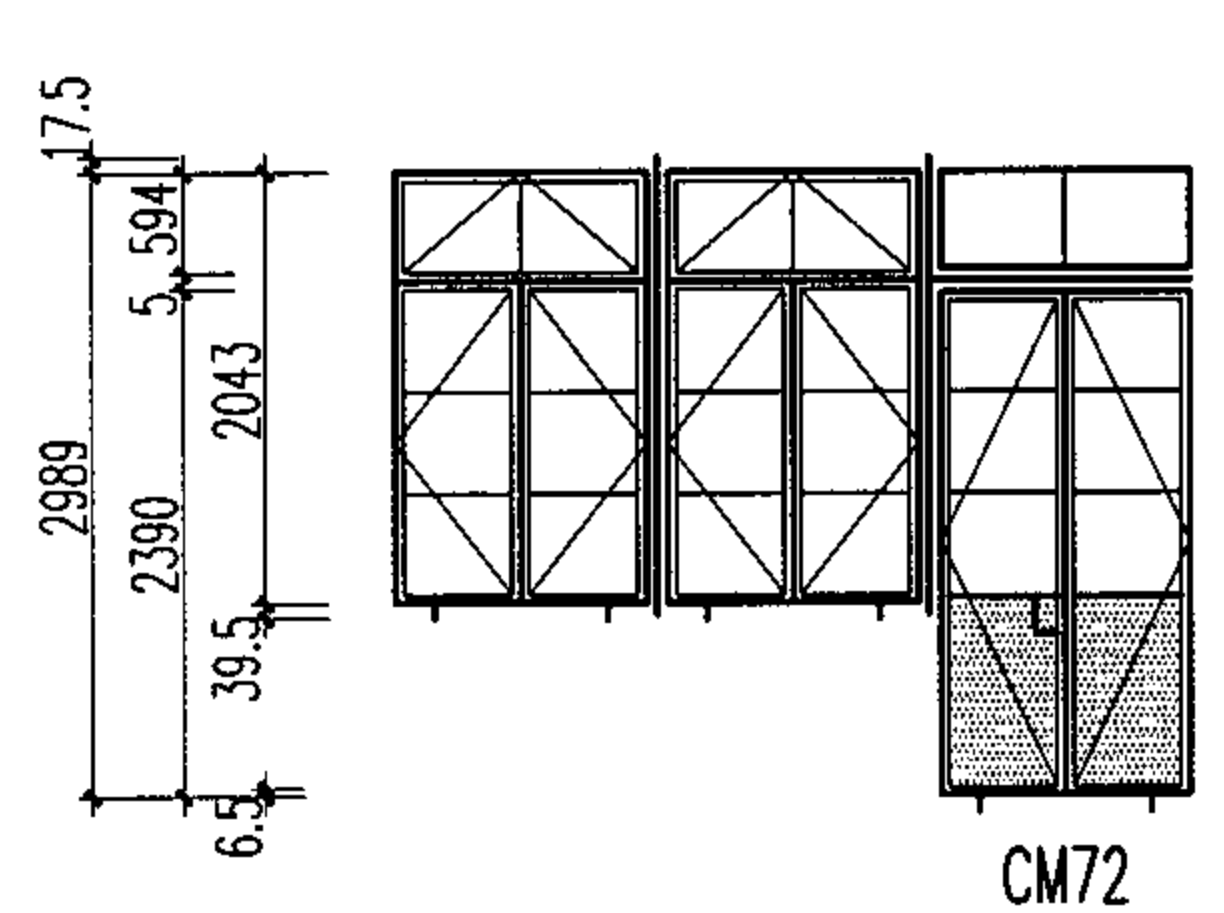
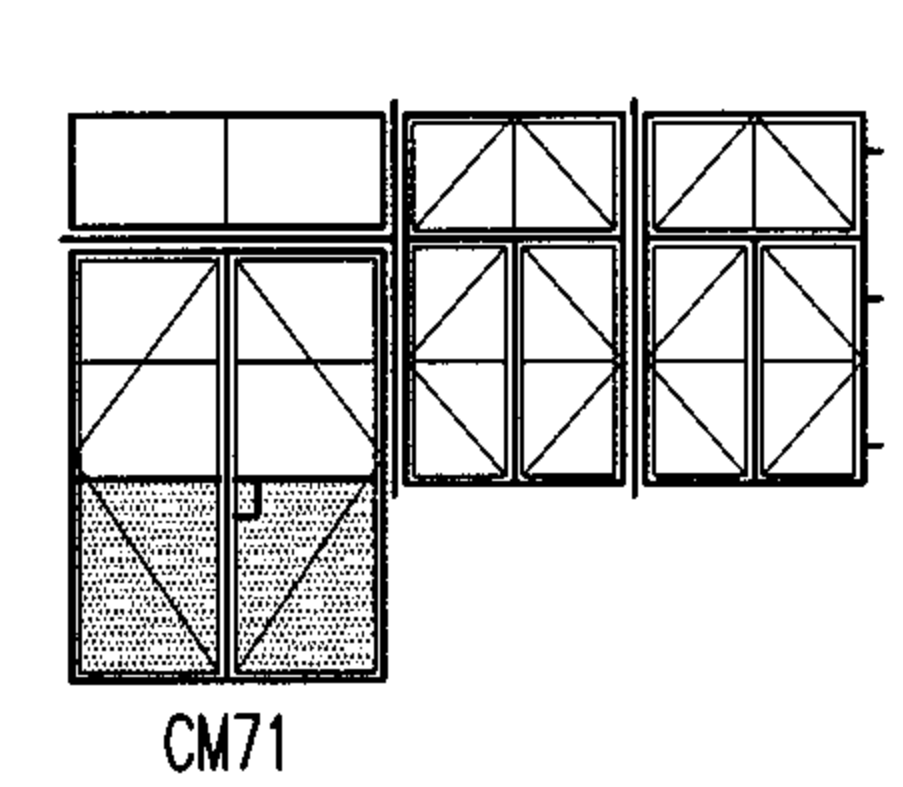
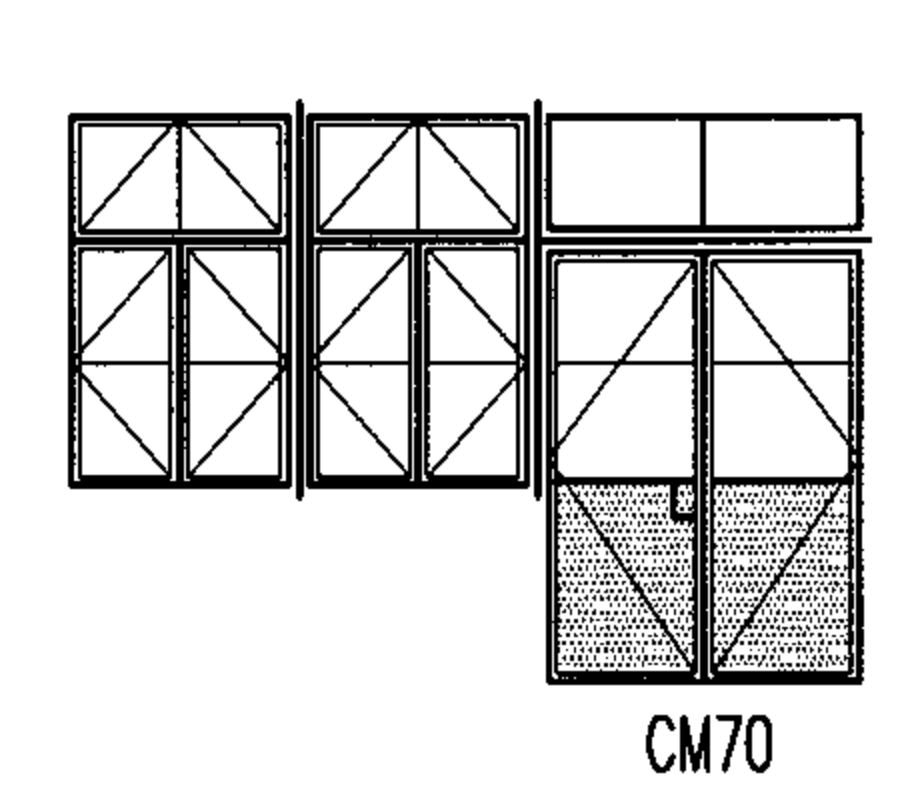
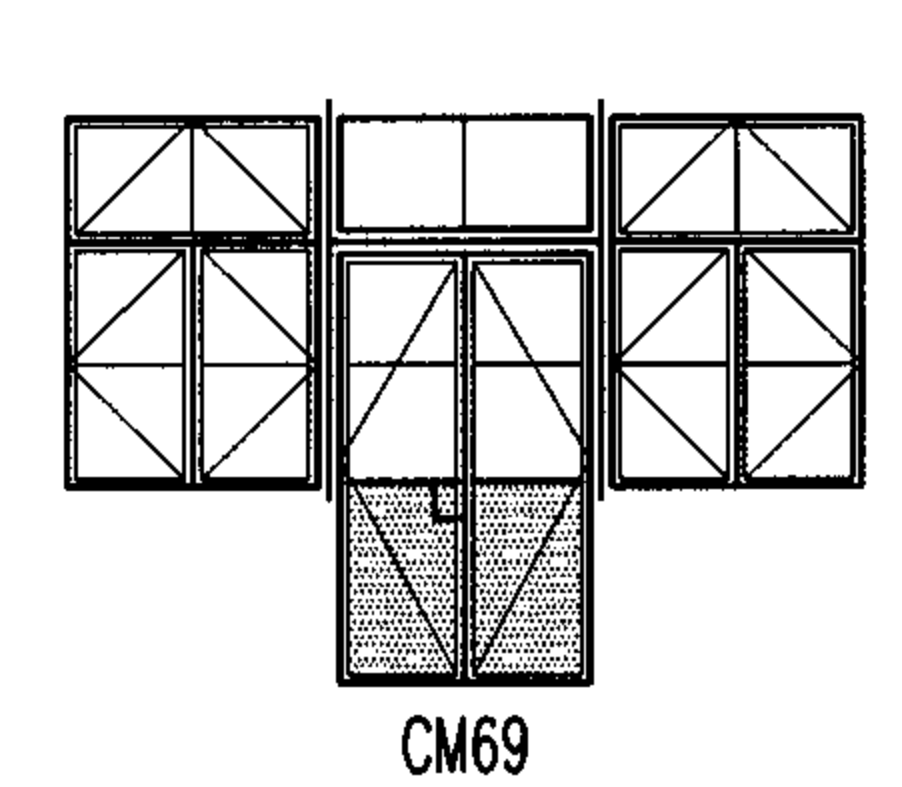
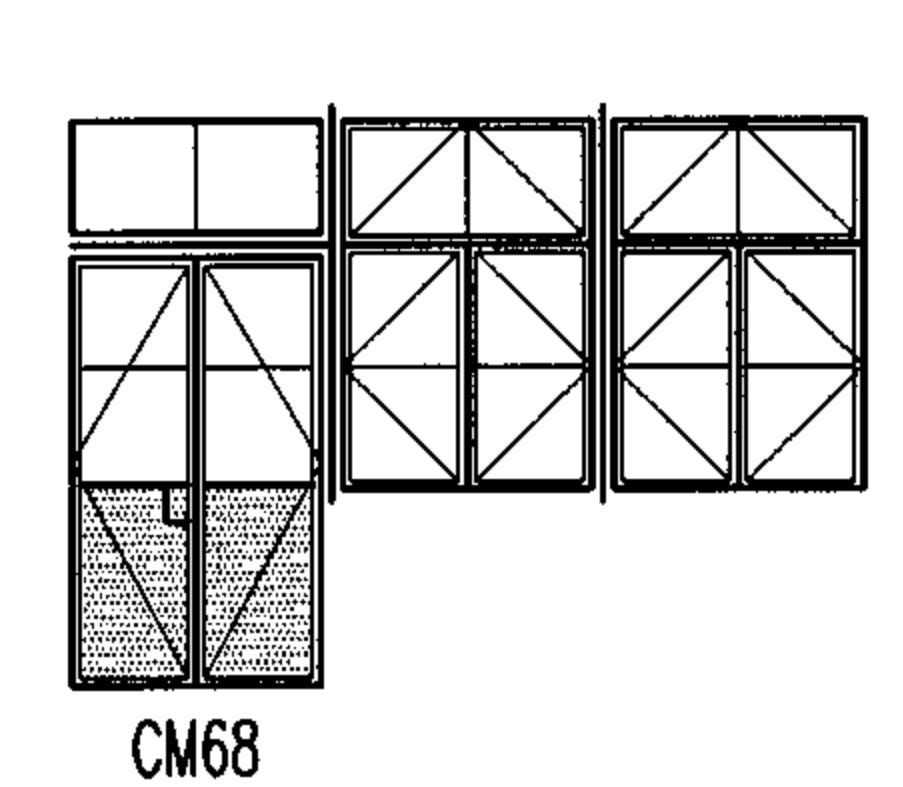
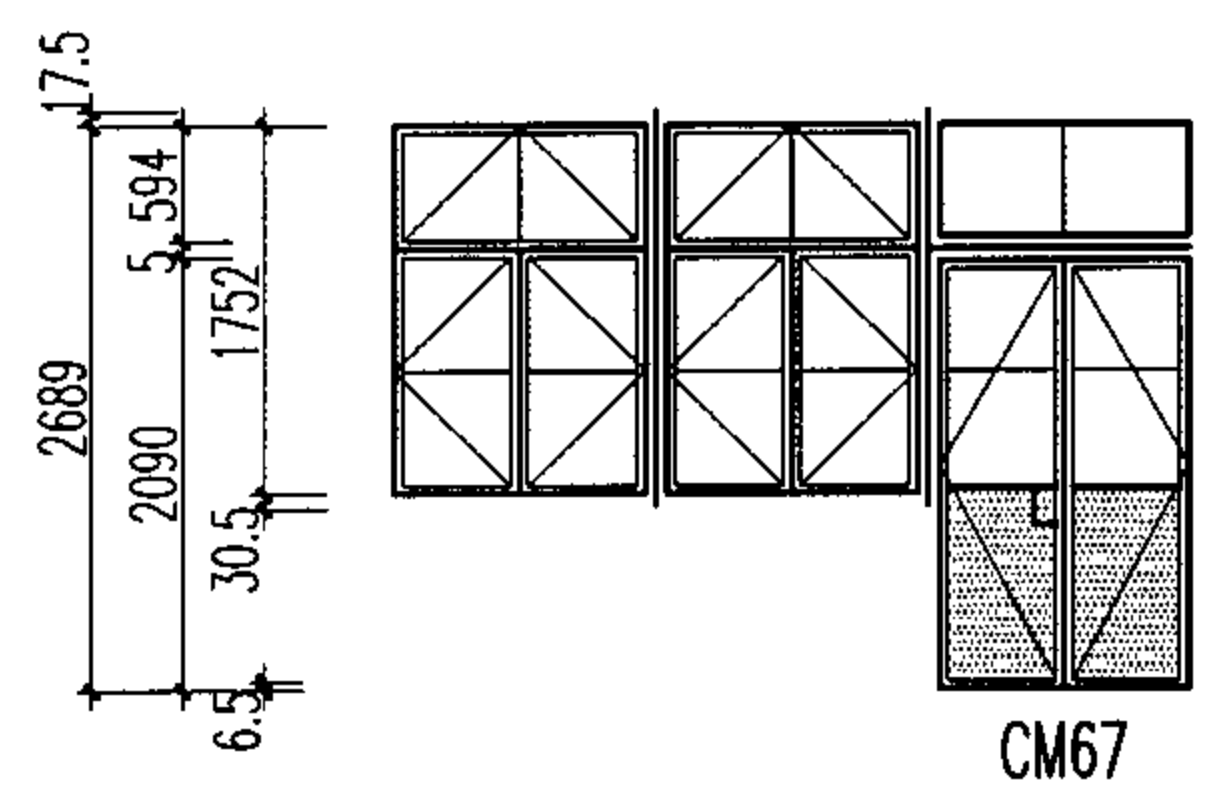
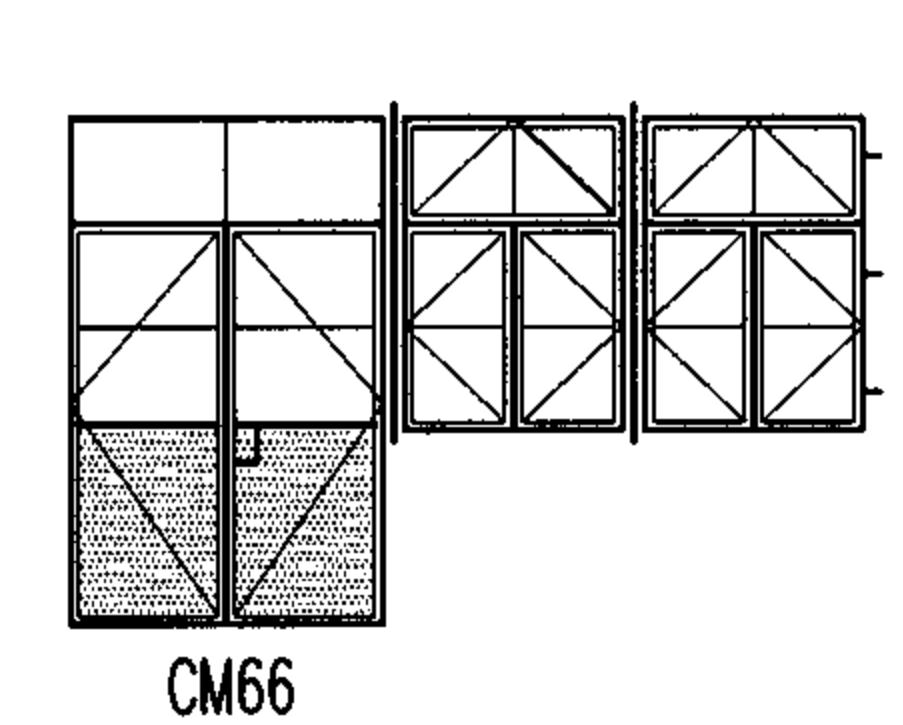
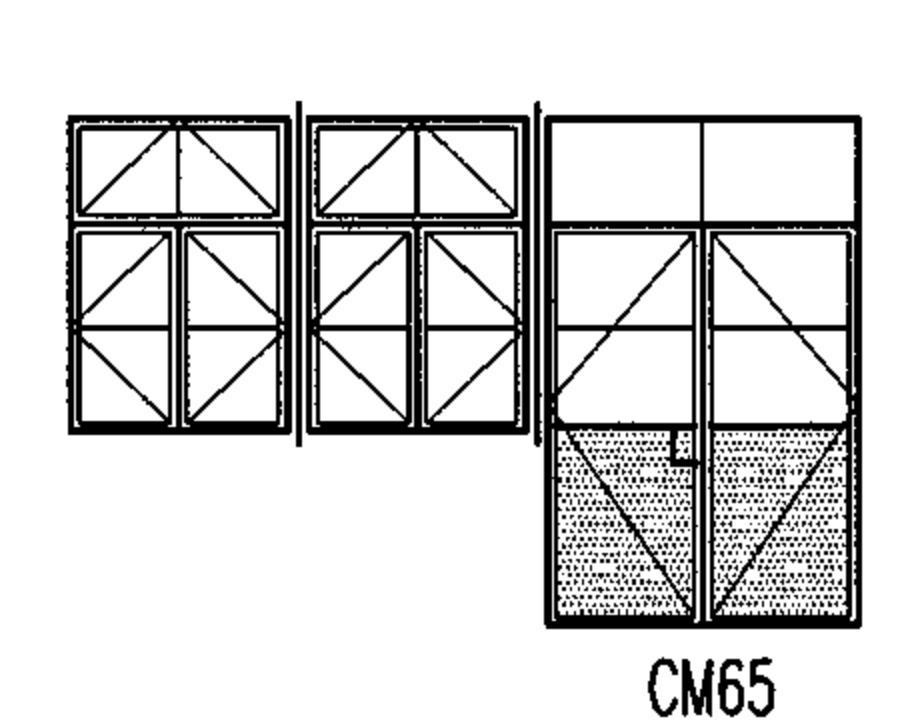
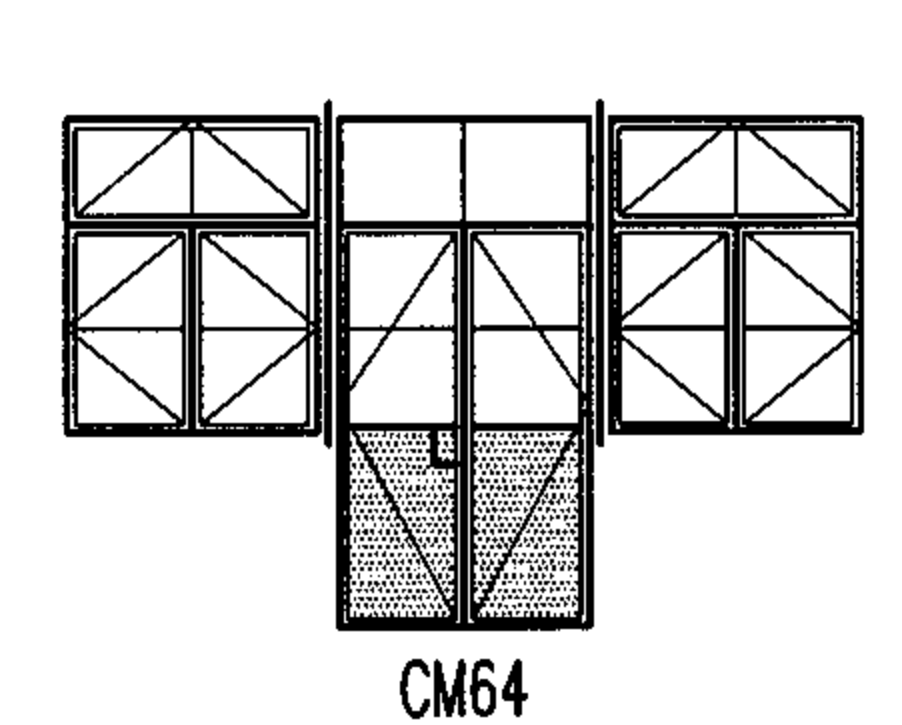
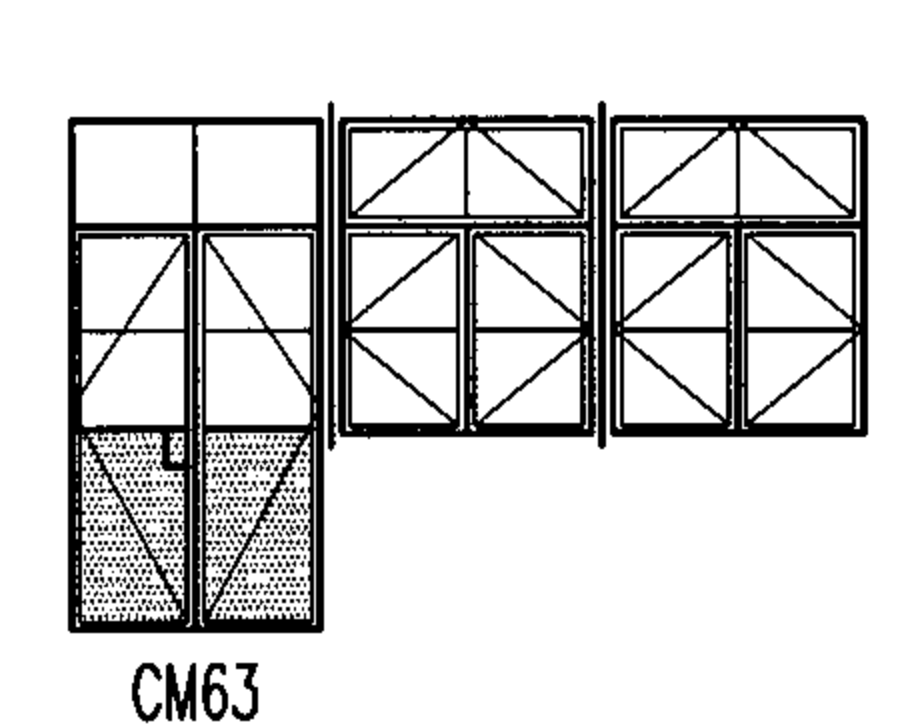
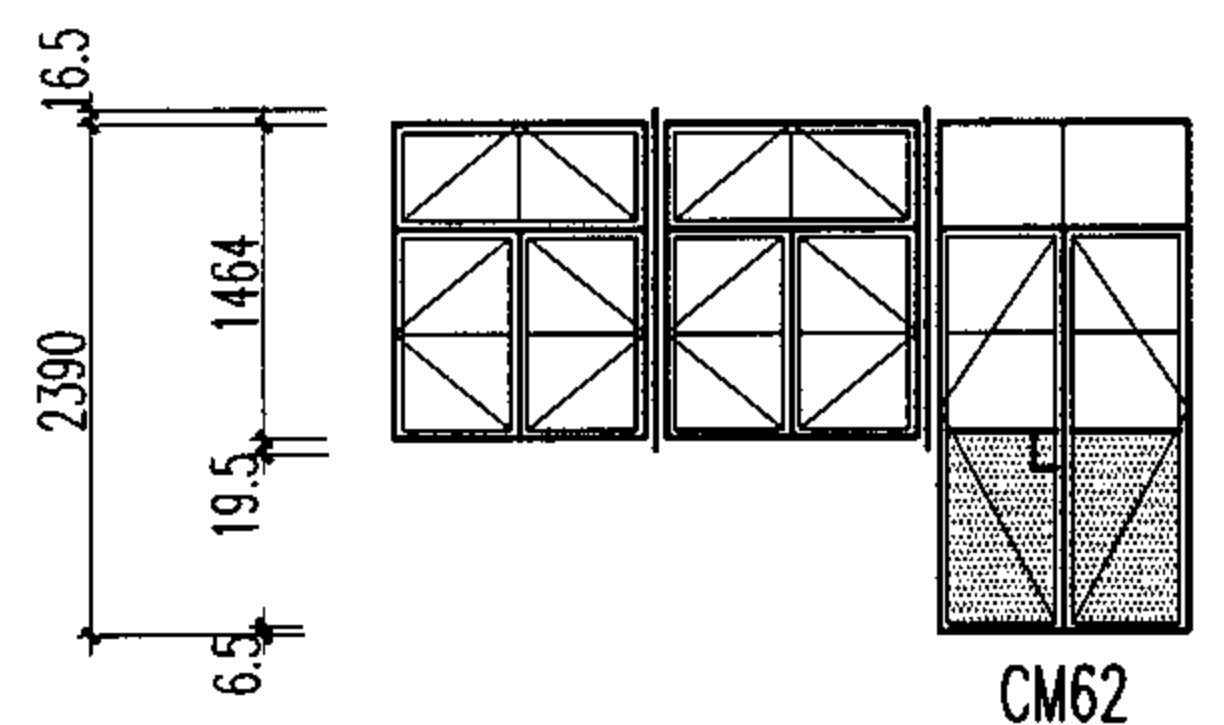
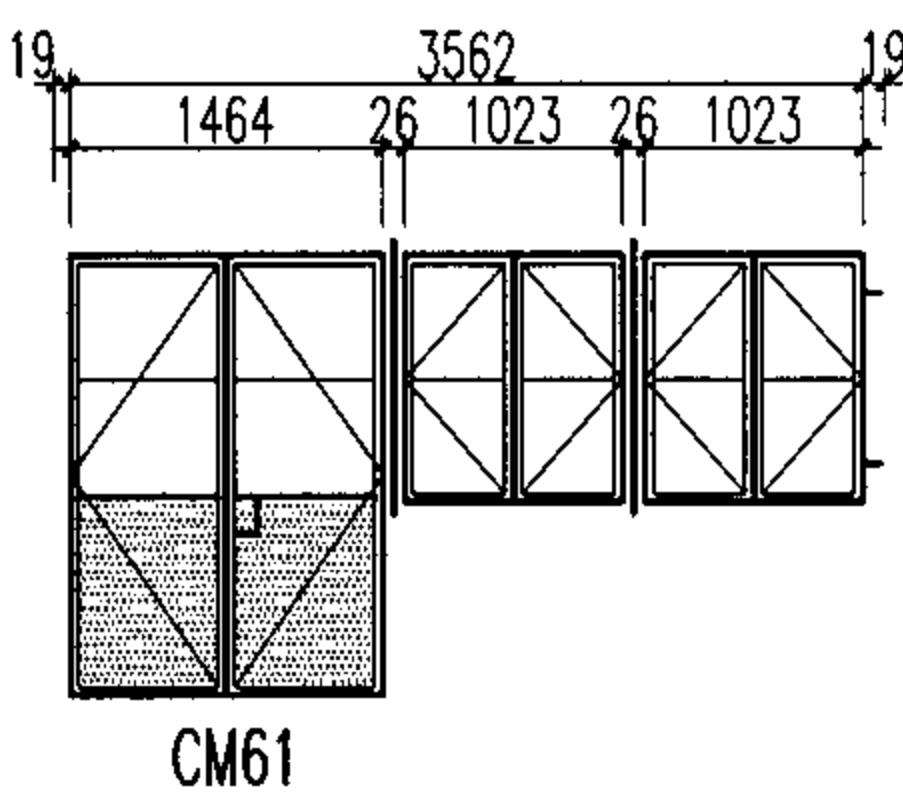
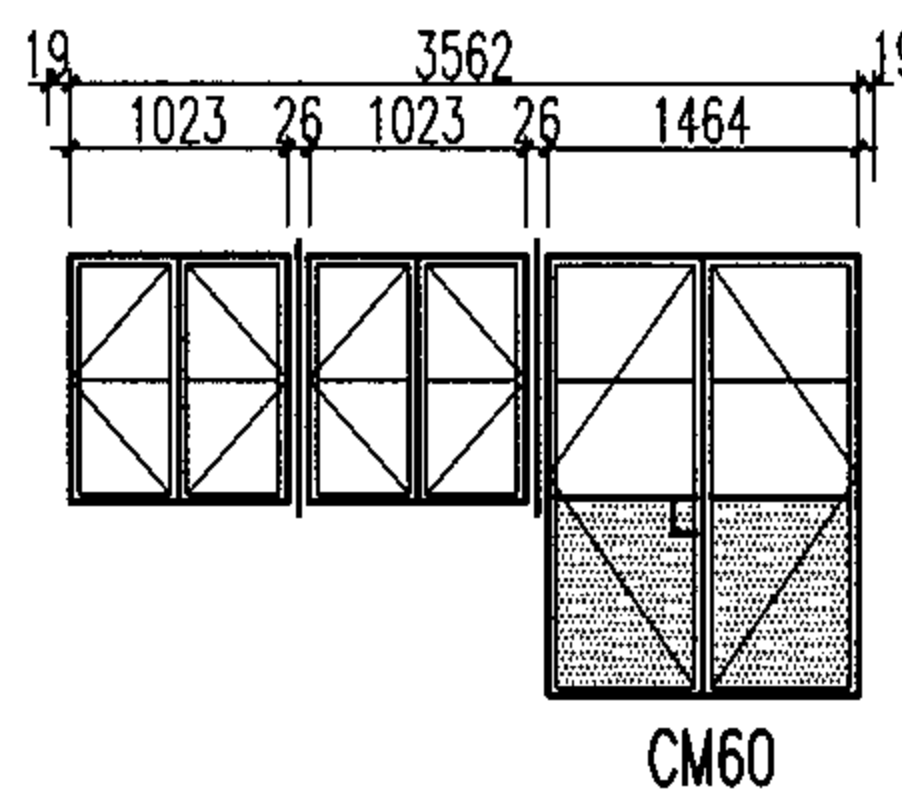
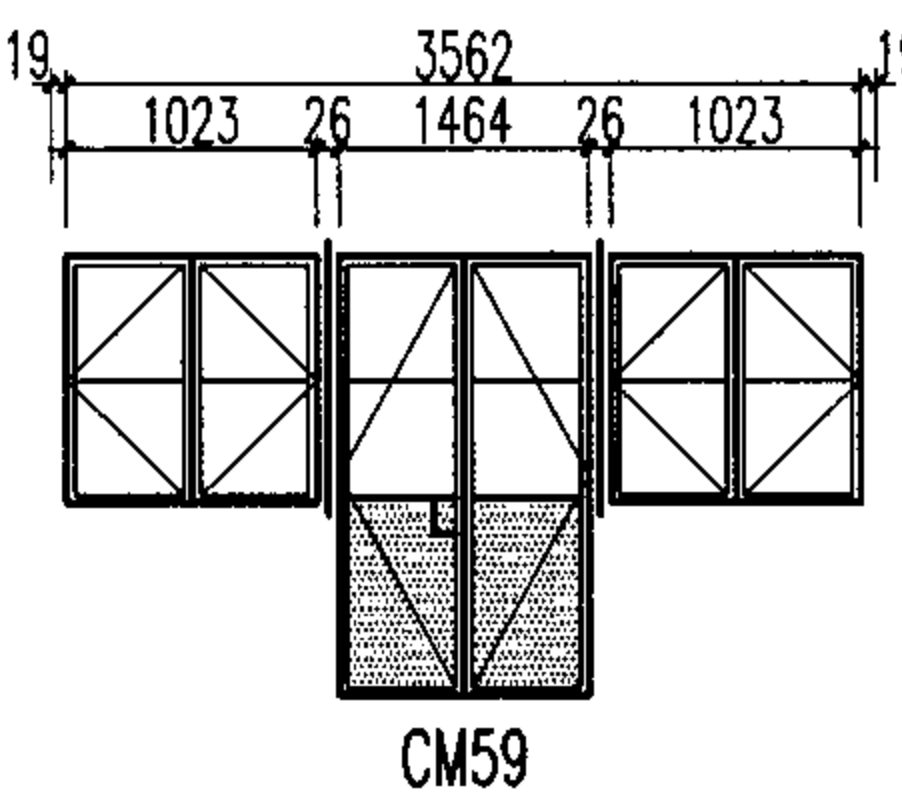
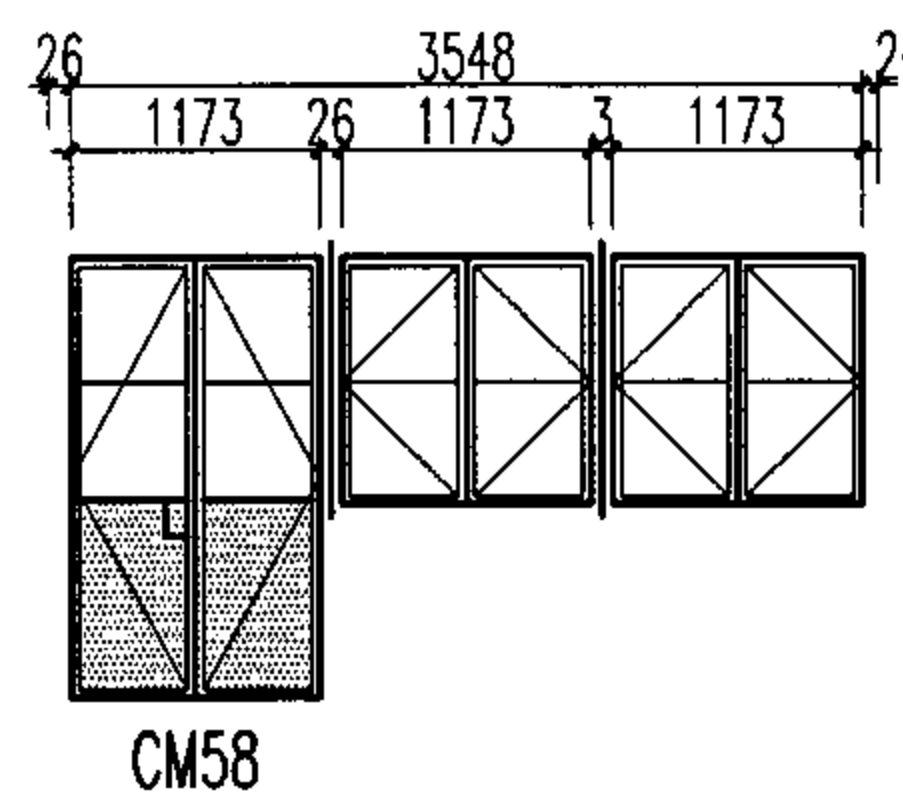
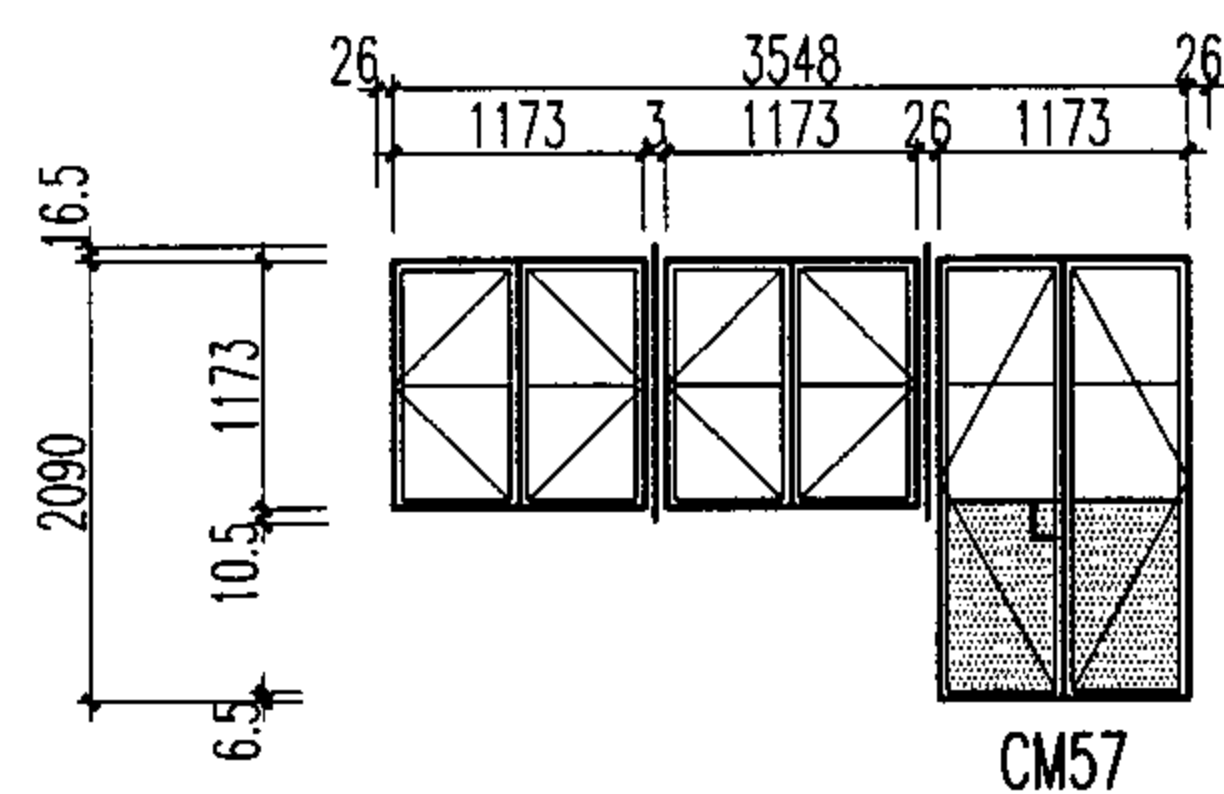
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2100

2400

2700

3000



CM连窗门 (三)

图集号

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审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

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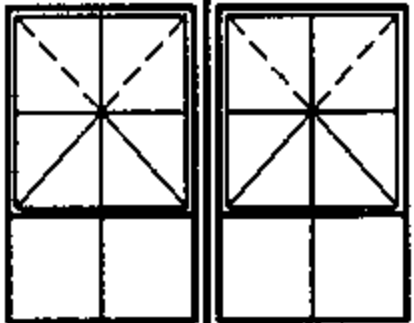
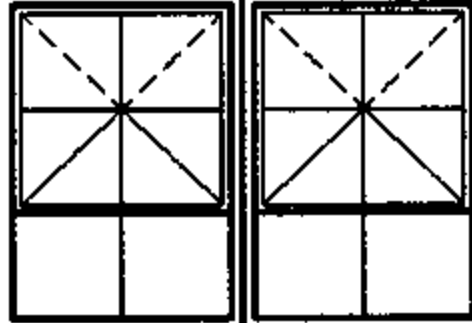
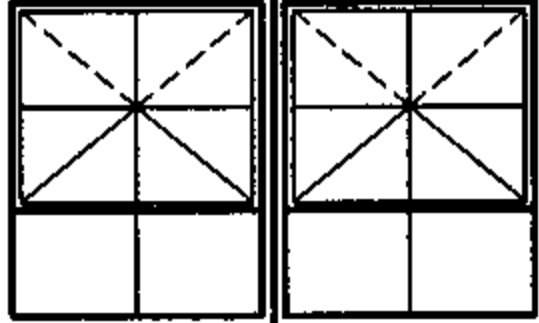
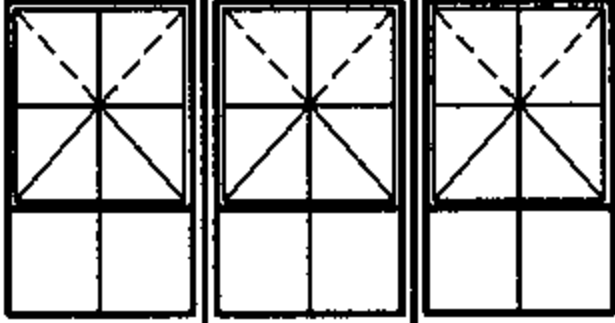
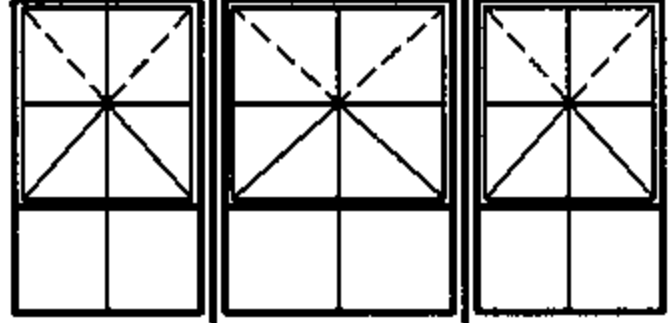
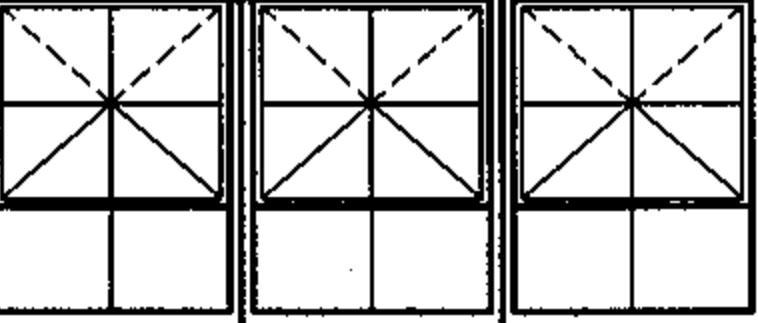
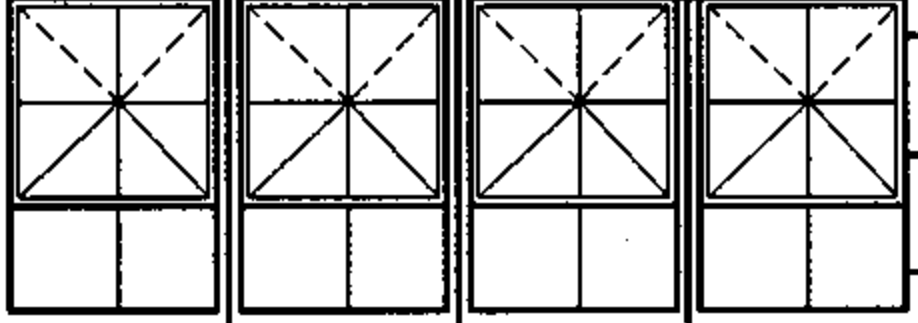
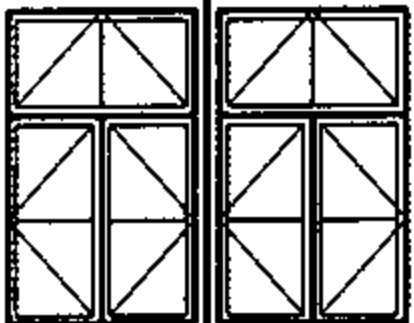
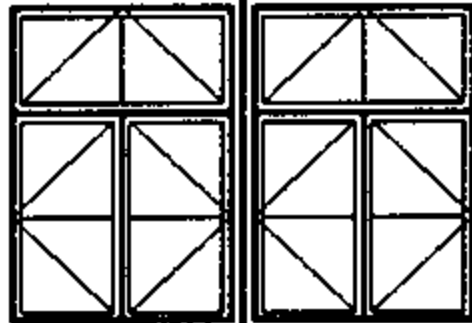
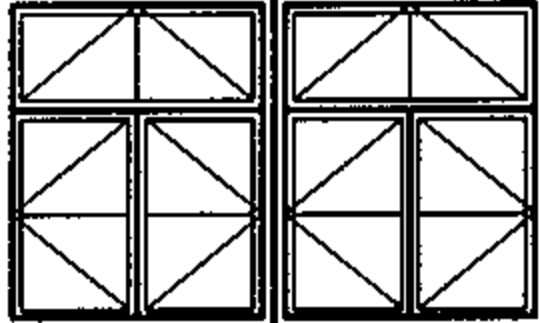
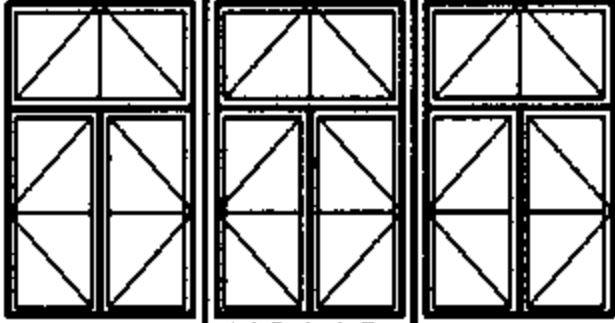
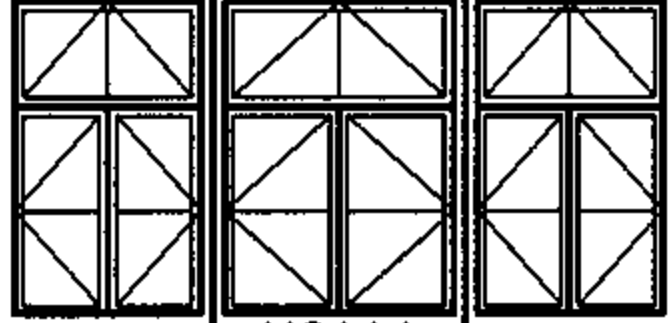
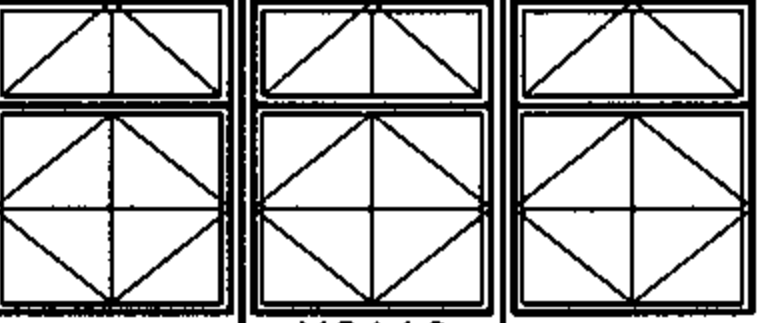
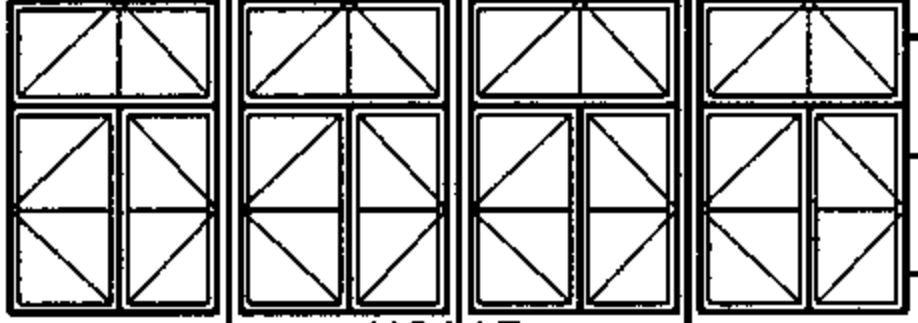
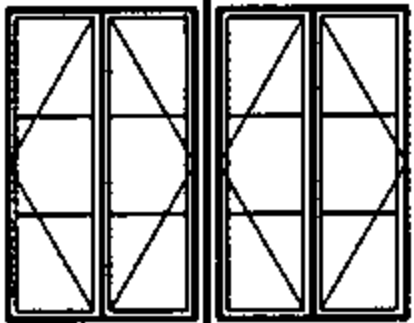
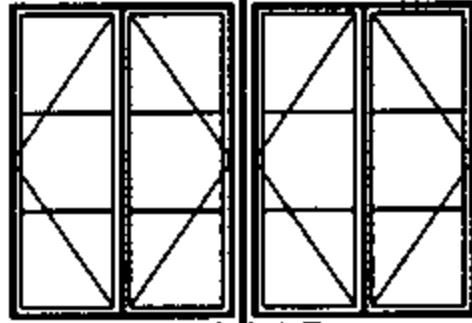
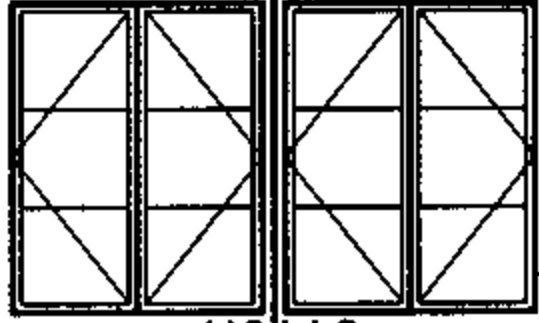
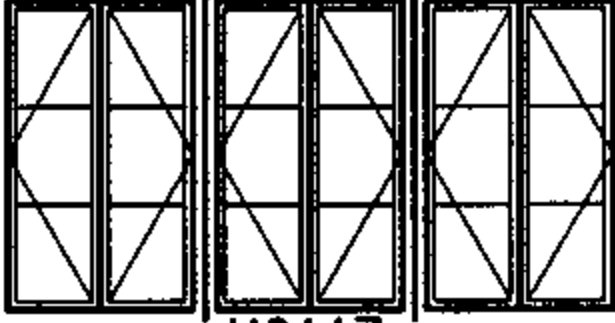
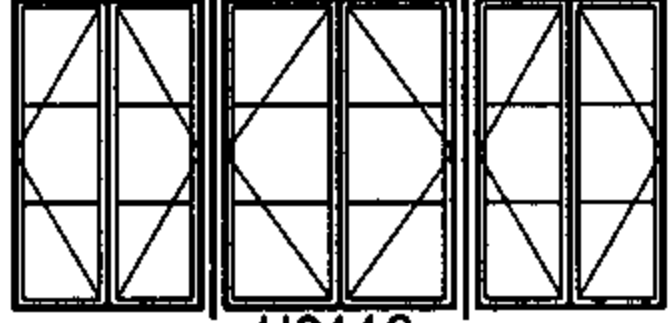
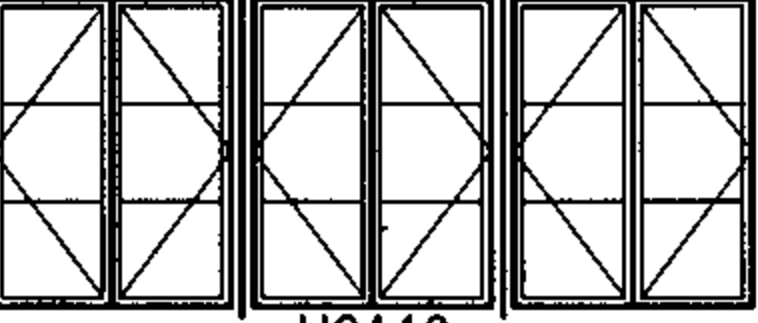
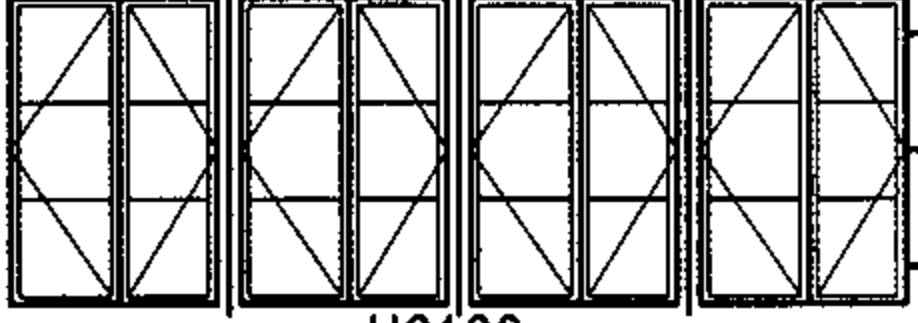
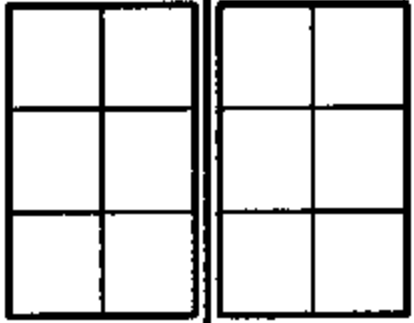
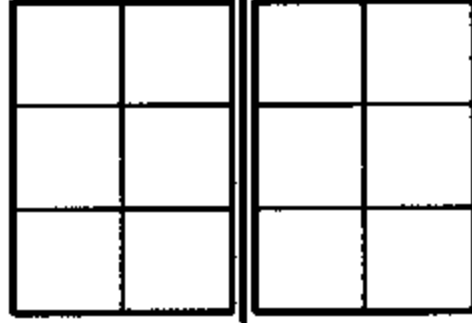
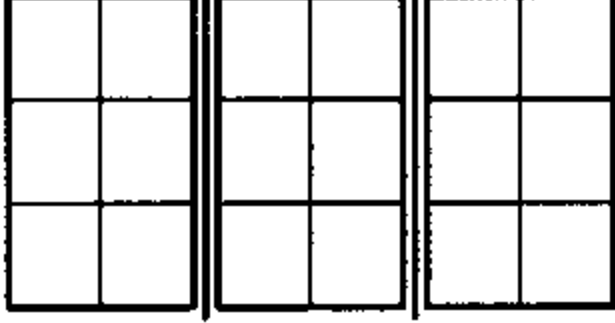
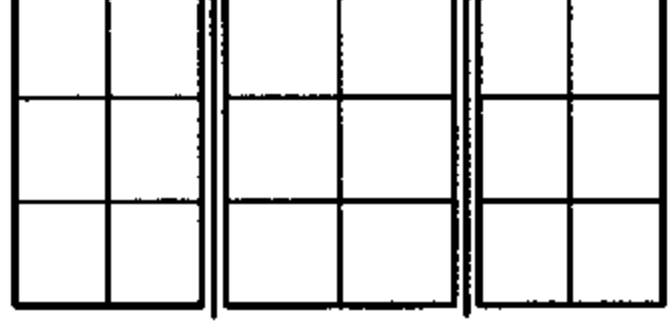
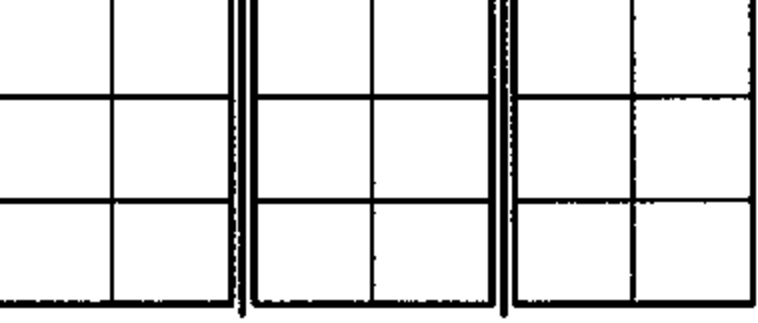
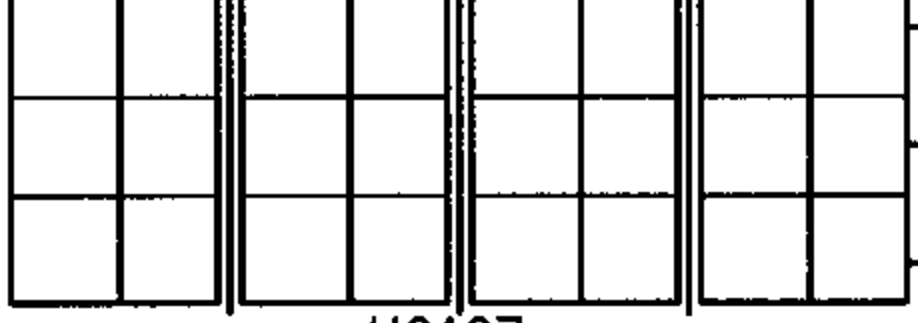
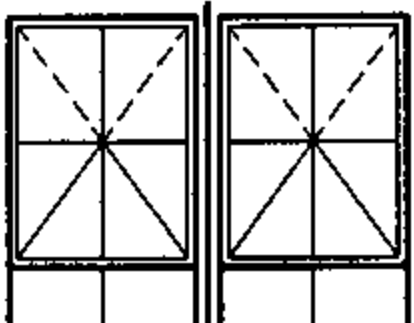
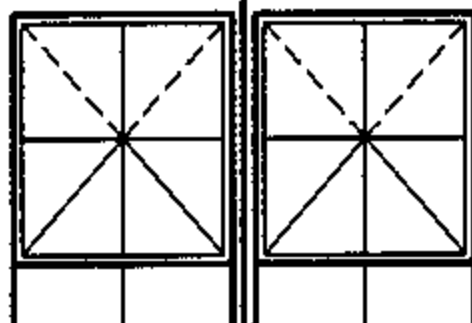
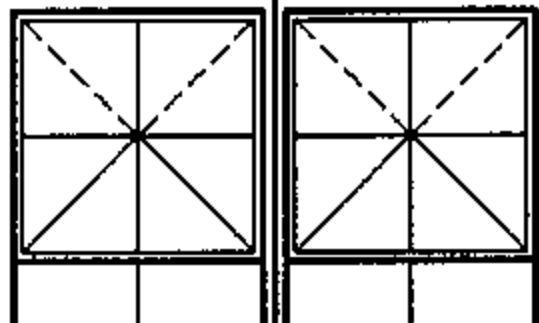
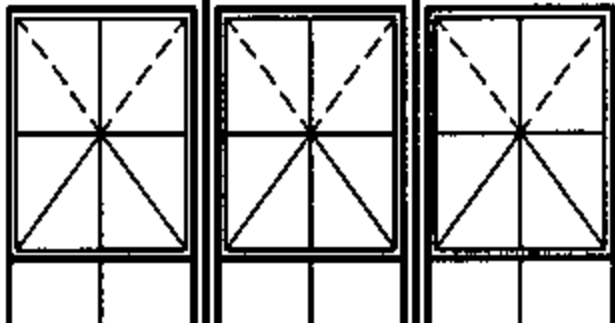
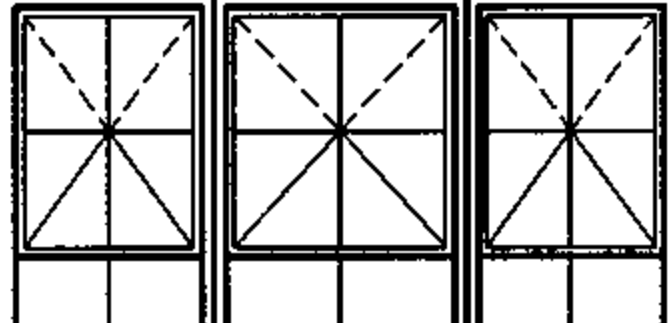
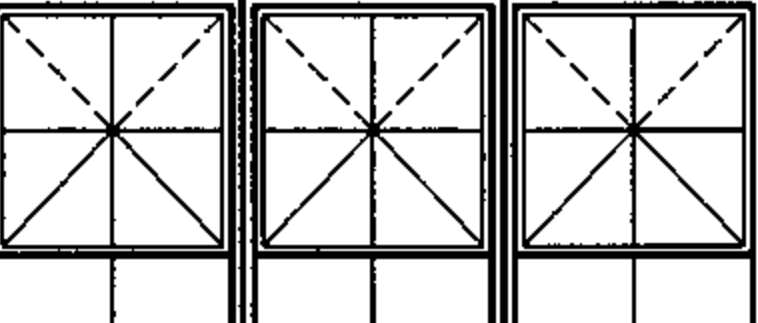
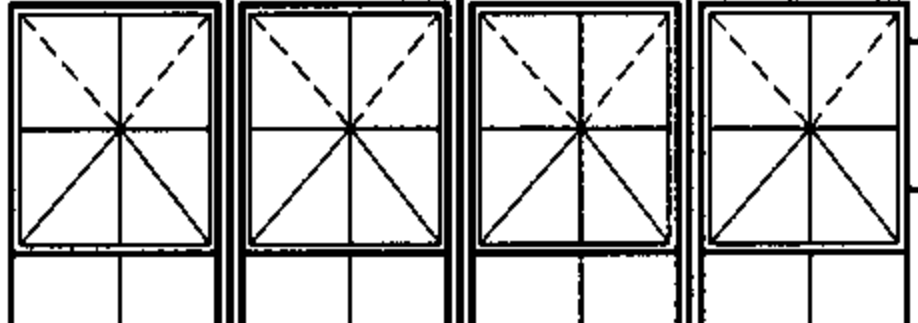
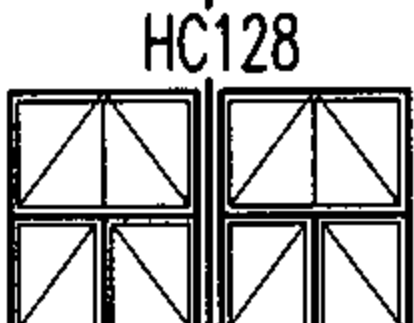
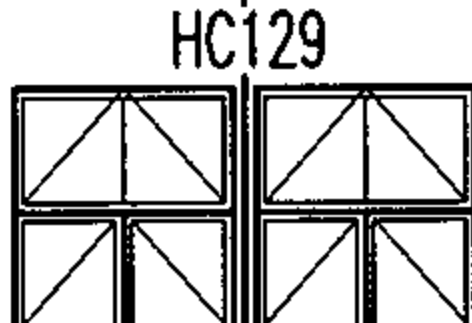
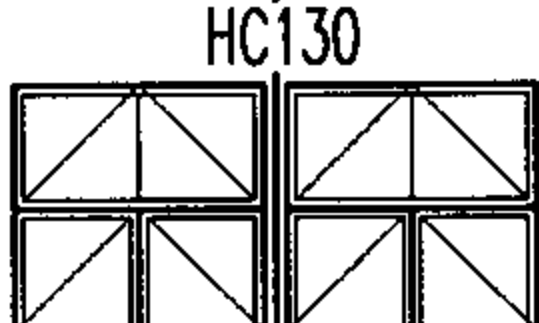
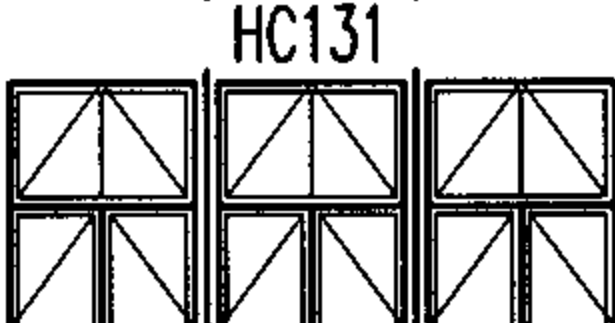
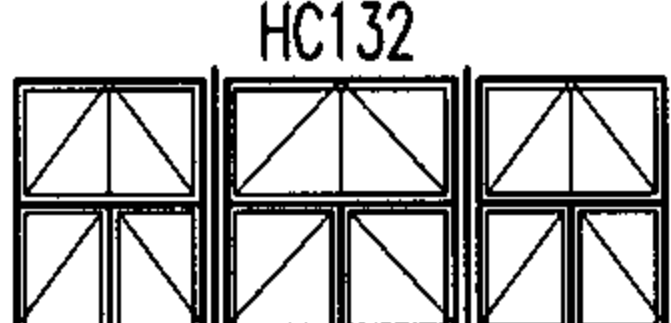
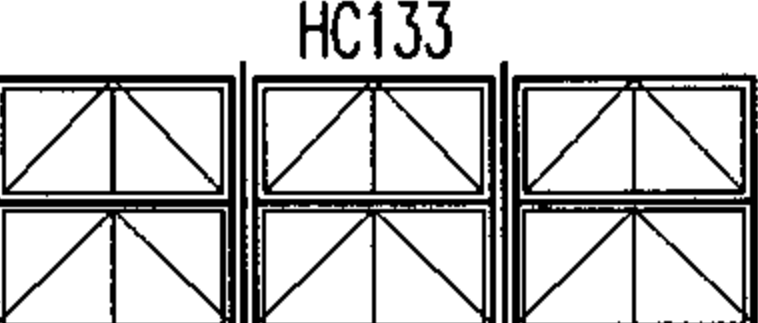
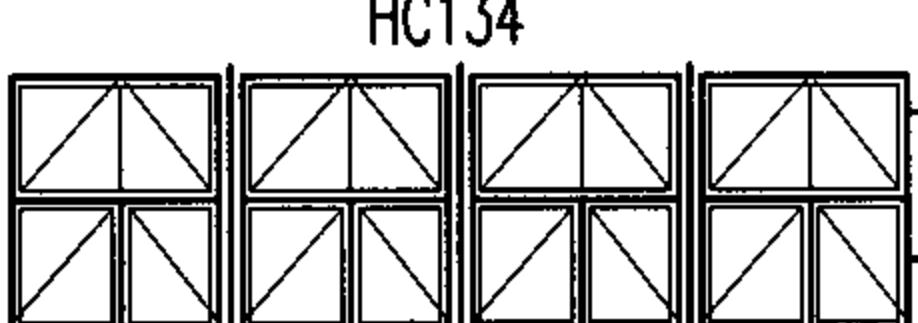
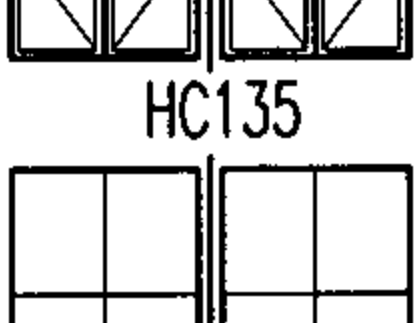
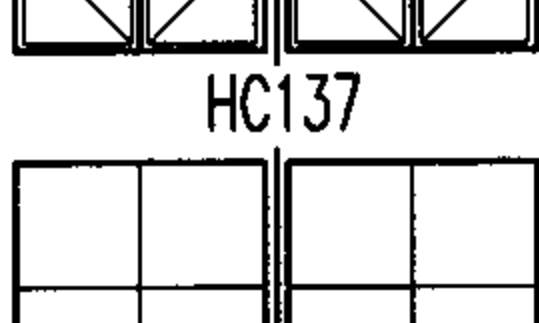
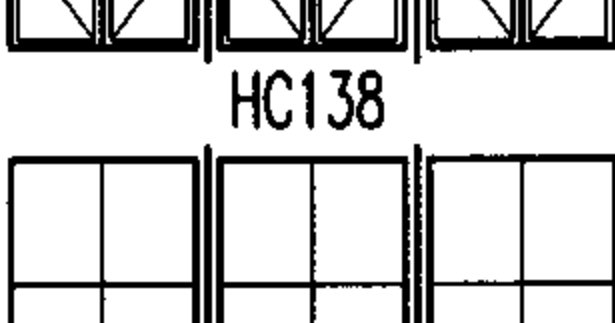
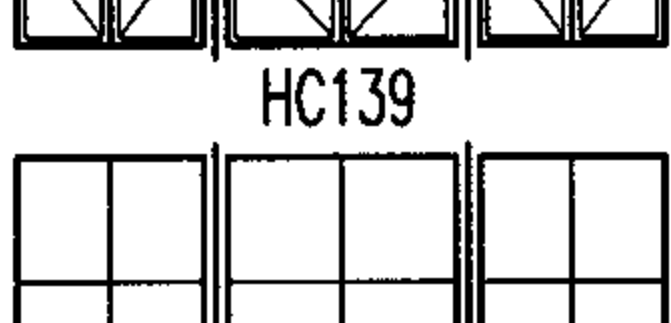
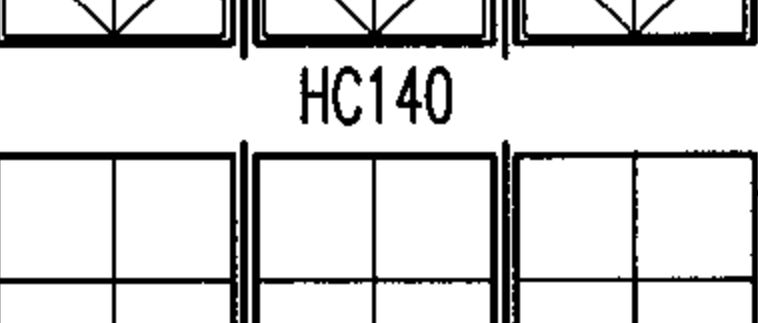
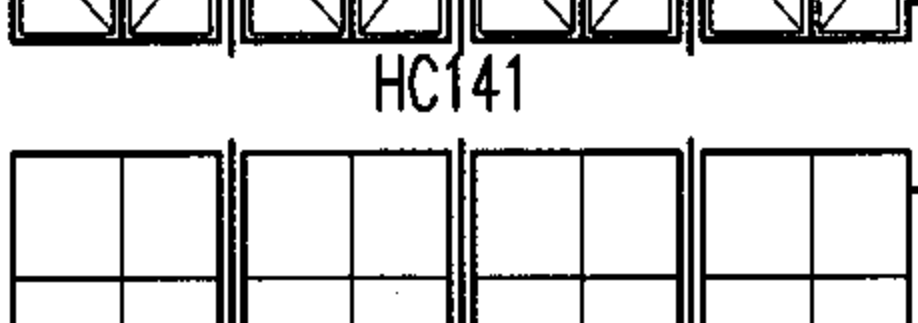
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900	 HC8	 HC9	 HC10	 HC11	 HC12	 HC13	 HC14
1200	 HC15	 HC16	 HC17	 HC18	 HC19	 HC20	 HC21
	 HC22	 HC23	 HC24	 HC25	 HC26	 HC27	 HC28
	 HC29	 HC30	 HC31	 HC32	 HC33	 HC34	 HC35
	 HC36	 HC37	 HC38	 HC39	 HC40	 HC41	 HC42
	 HC43	 HC44	 HC45	 HC46	 HC47	 HC48	 HC49
	 HC50	 HC51	 HC52	 HC53	 HC54	 HC55	 HC56
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HC组合窗(一)

图集号 04J602-1

审核 郭景 郭景 校对 李力 李力 设计 孙钢男 孙钢男

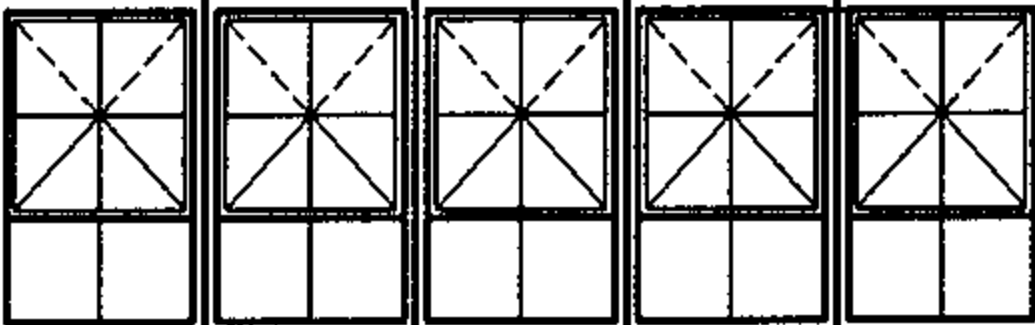
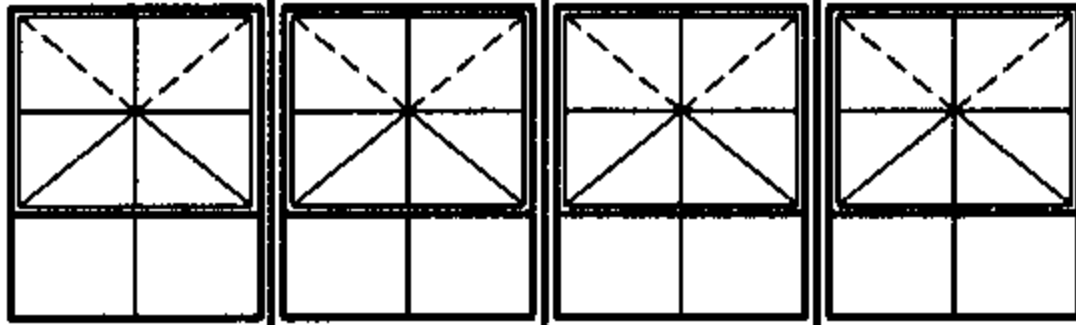
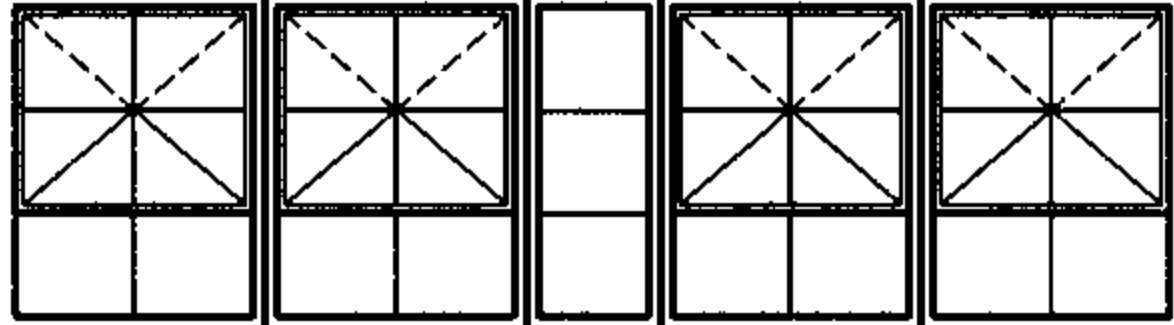
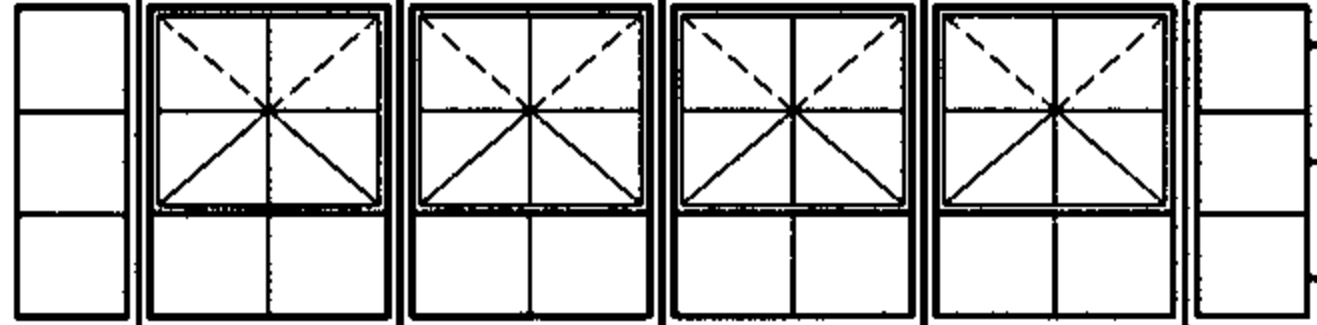
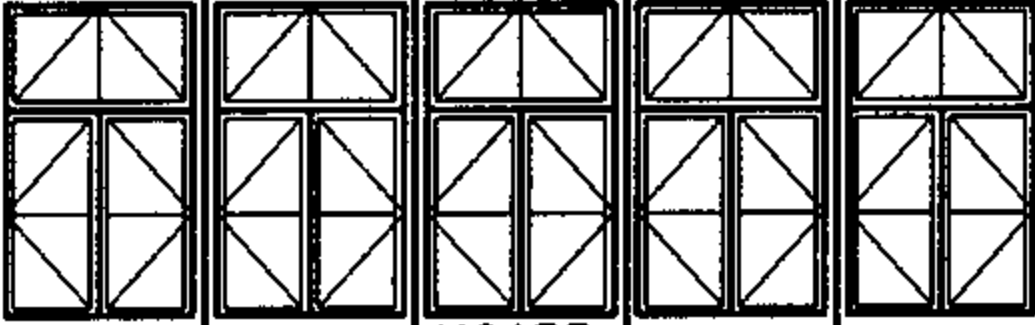
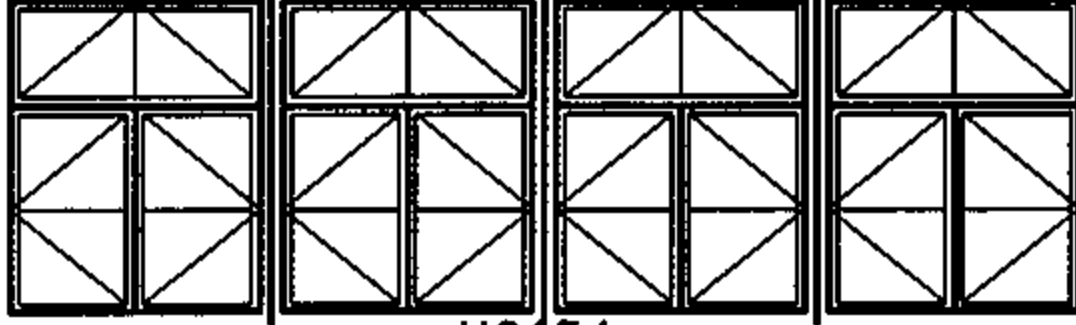
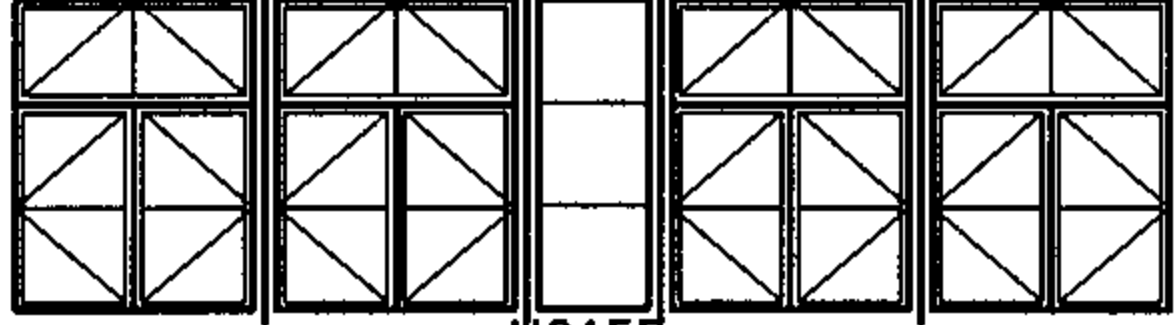
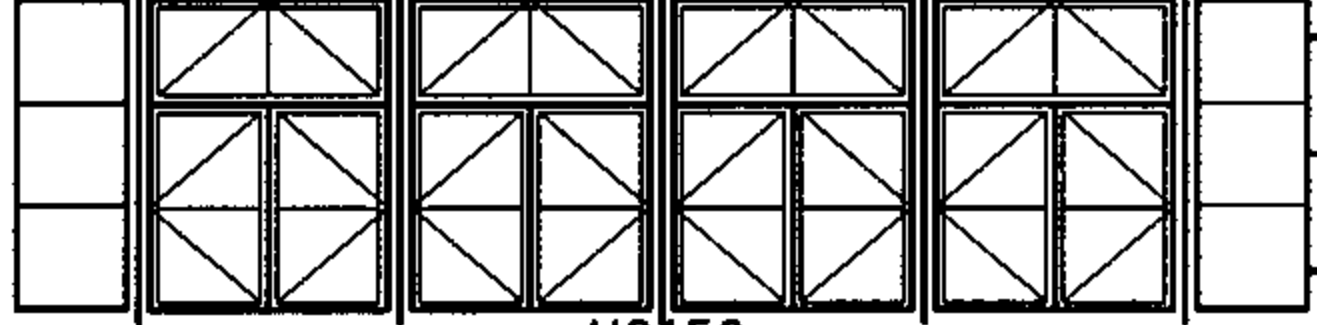
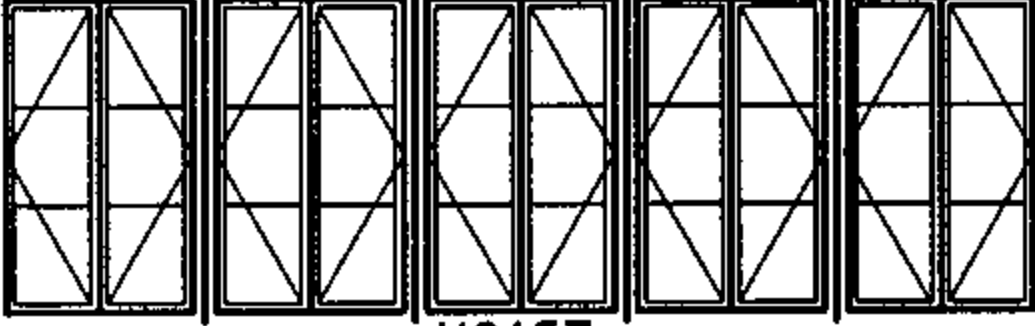
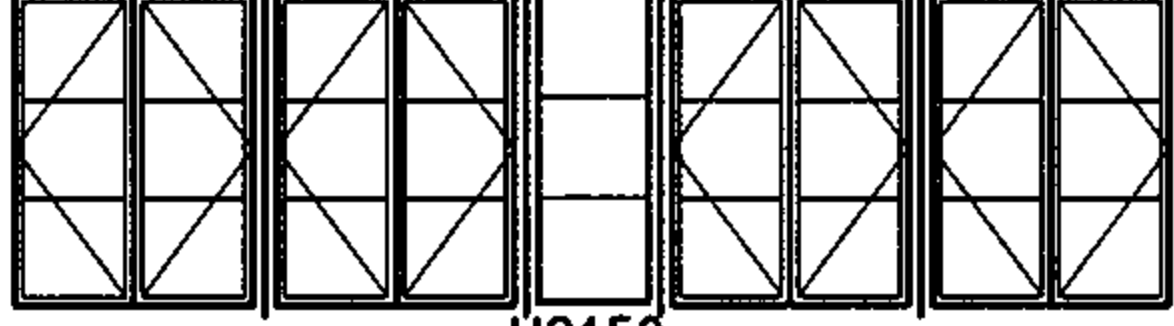
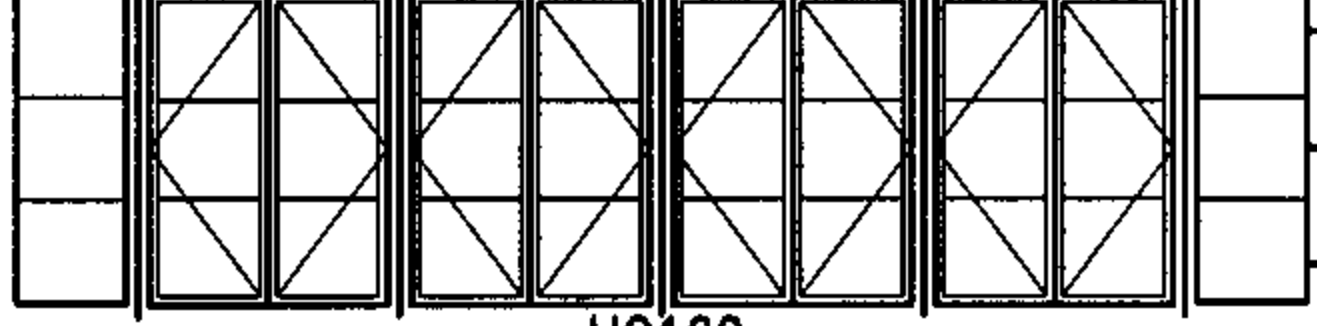
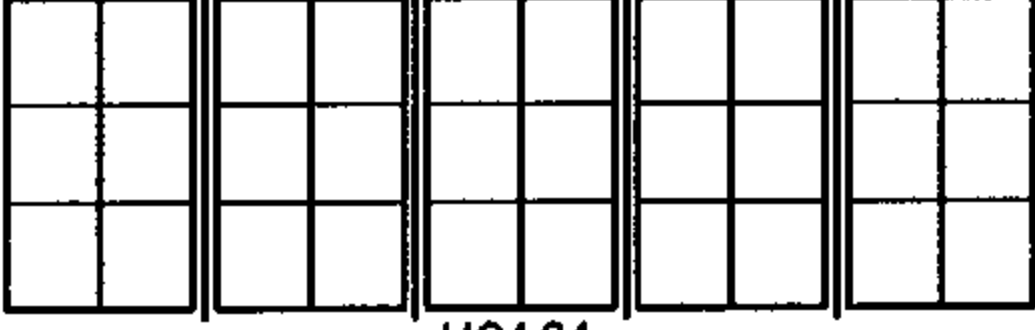
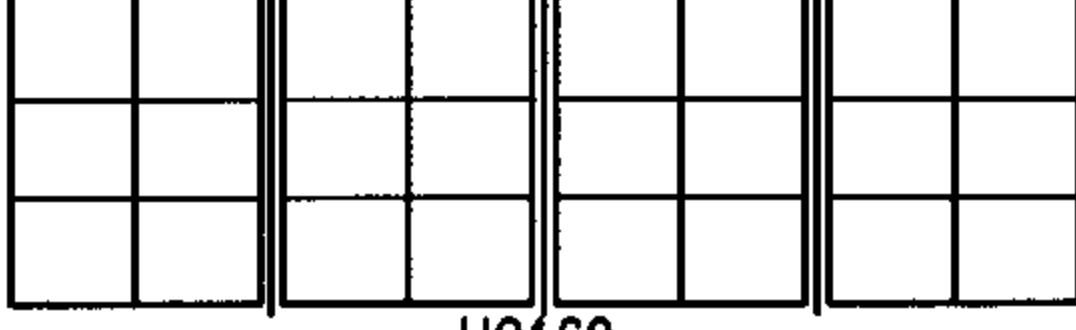
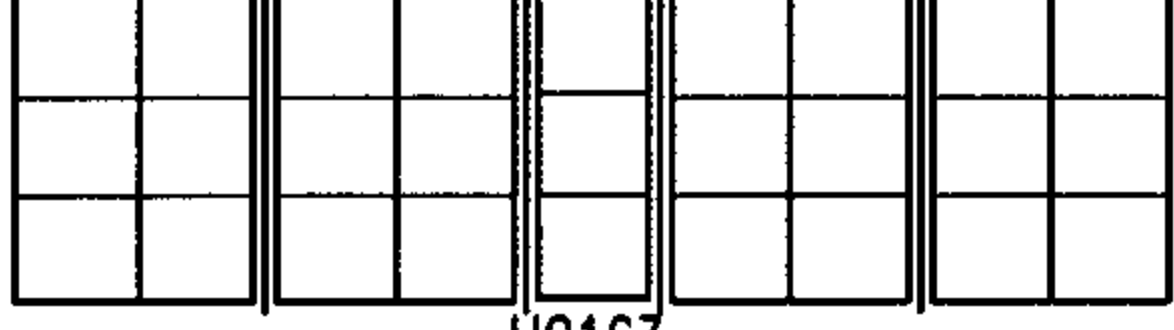
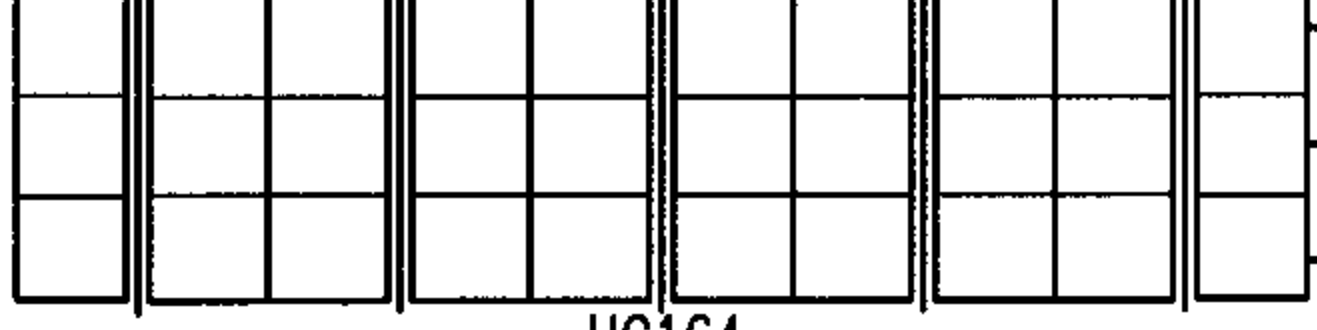
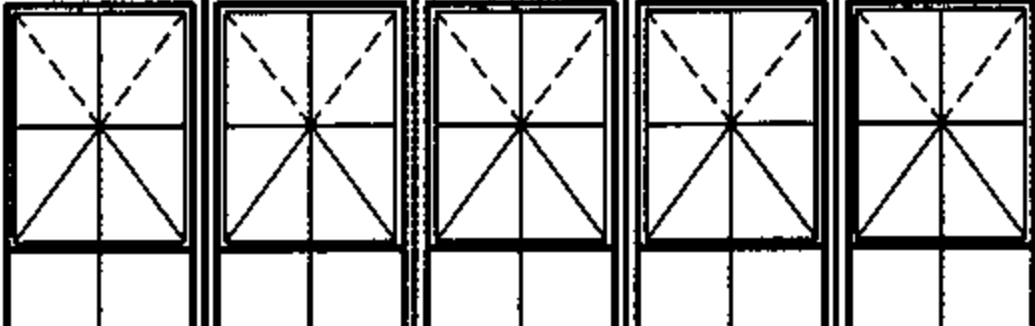
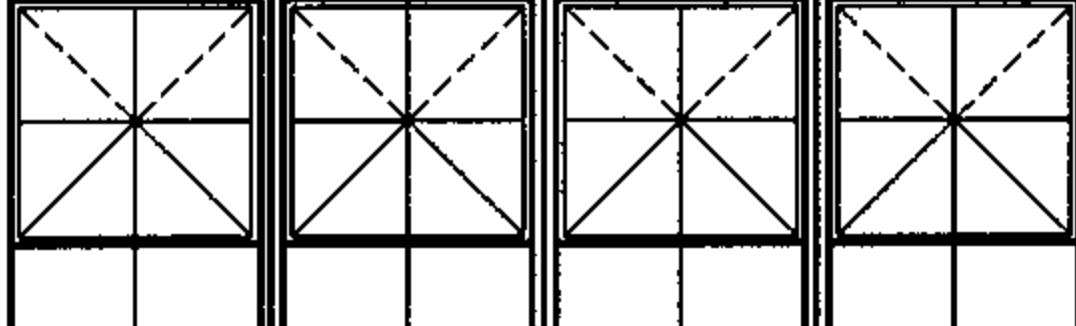
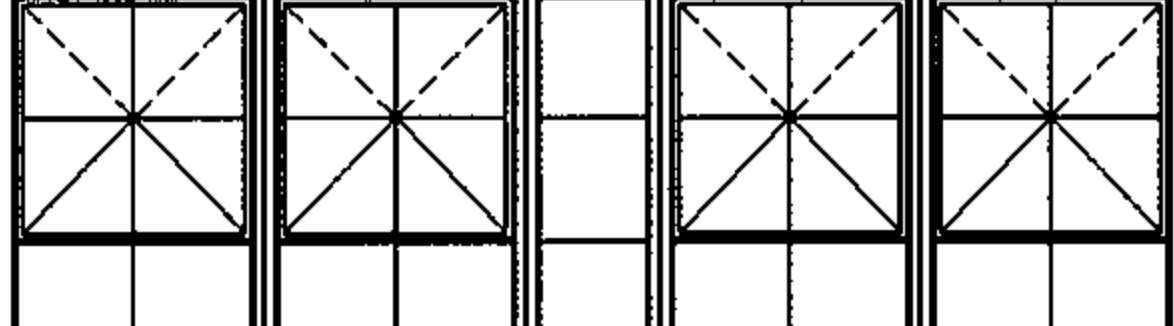
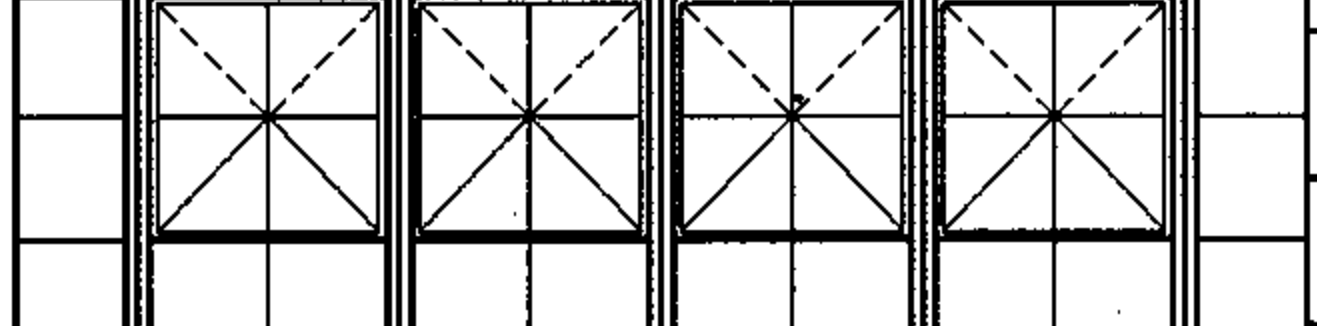
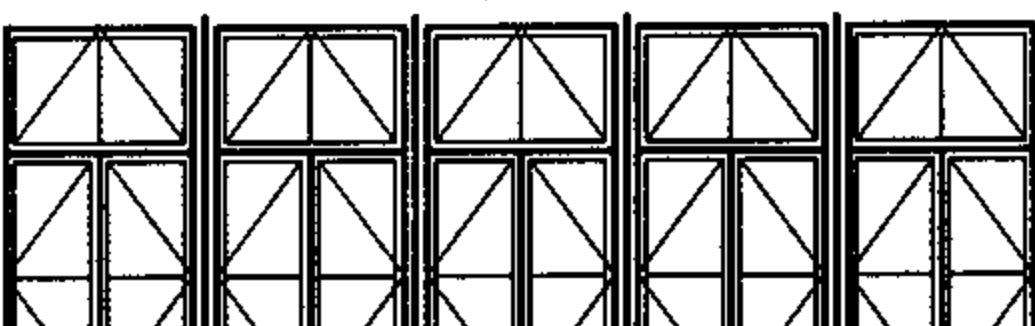
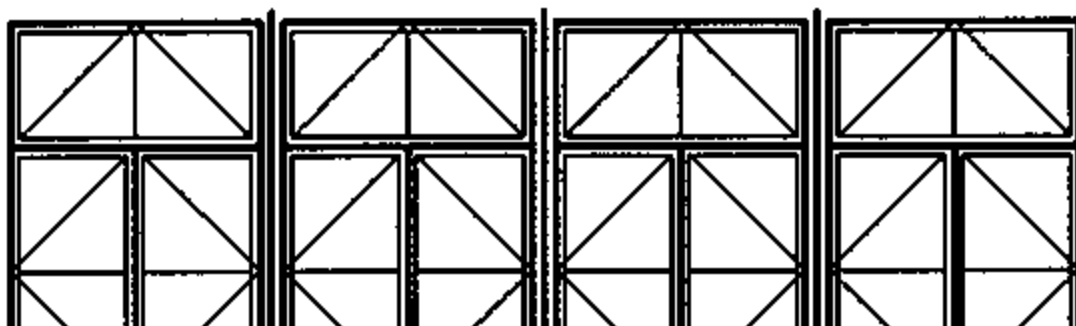
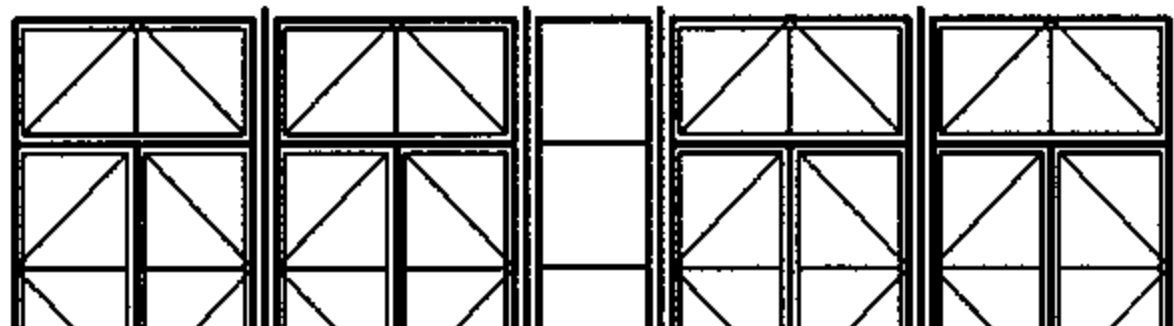
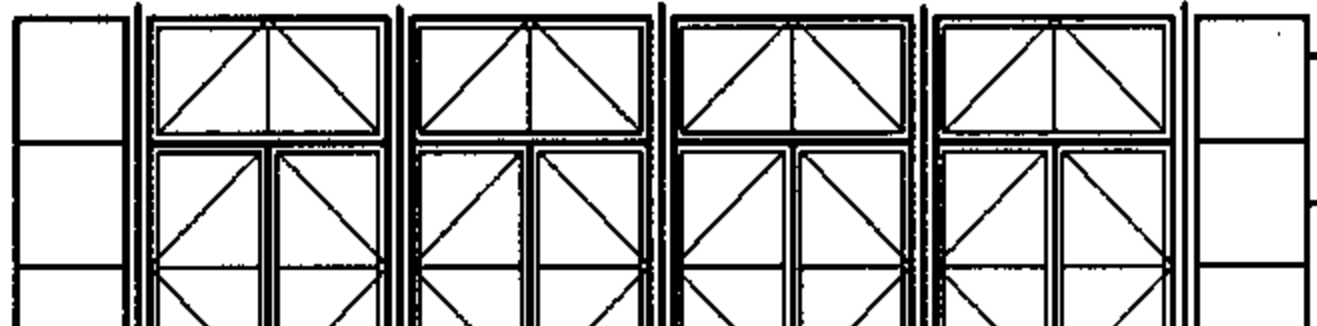
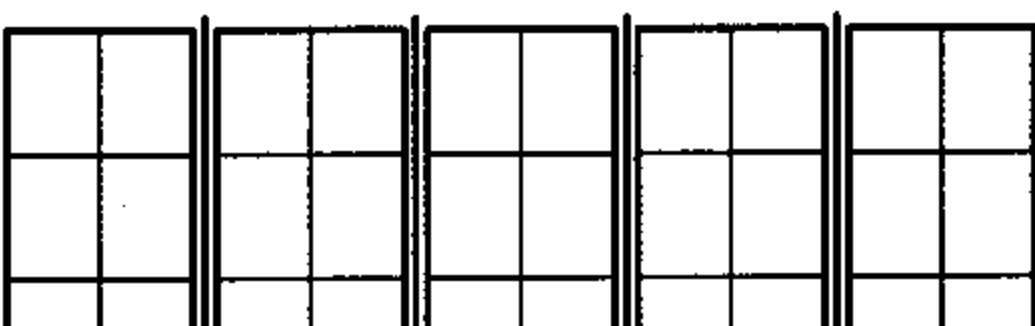
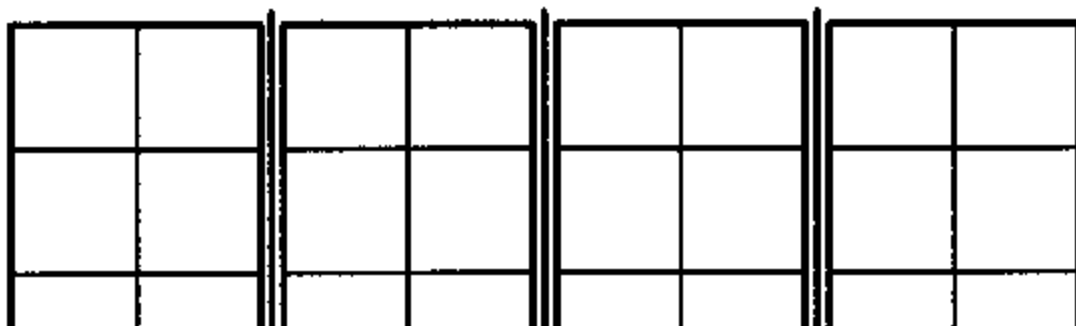
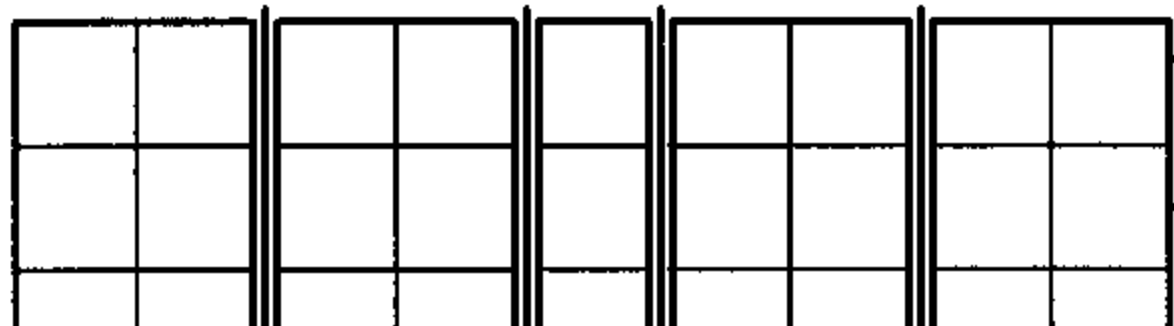
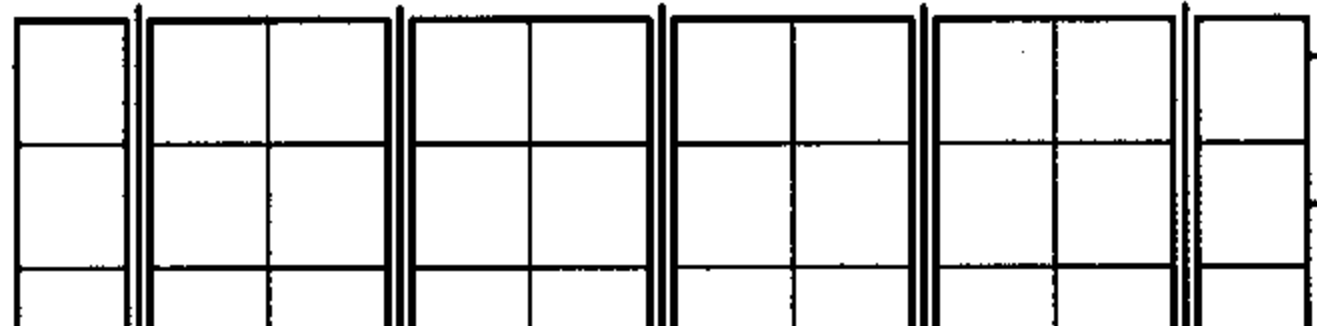
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	14	HC72	HC73	HC74	HC75
	13	HC76	HC77	HC78	HC79
	14	H80	HC81	HC82	HC83
	13	HC84	HC85	HC86	HC87
	14	HC88	HC89	HC90	HC91
	13	HC92	HC93	HC94	HC95
	14	HC96	HC97	HC98	HC99
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		审核 郭景 郭景 校对 李力 李力 设计 孙钢男 孙钢男			
		图集号 04J602-1 页 23			

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1800	 HC107	 HC108	 HC109	 HC110	 HC111	 HC112	 HC113
	 HC114	 HC115	 HC116	 HC117	 HC118	 HC119	 HC120
	 HC121	 HC122	 HC123	 HC124	 HC125	 HC126	 HC127
	 HC128	 HC129	 HC130	 HC131	 HC132	 HC133	 HC134
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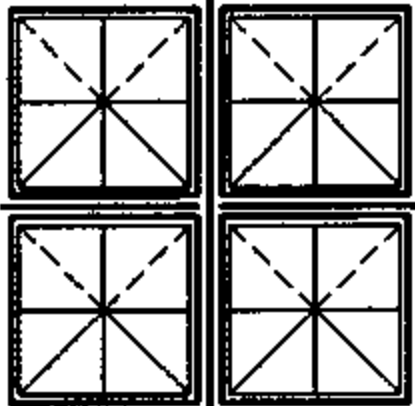
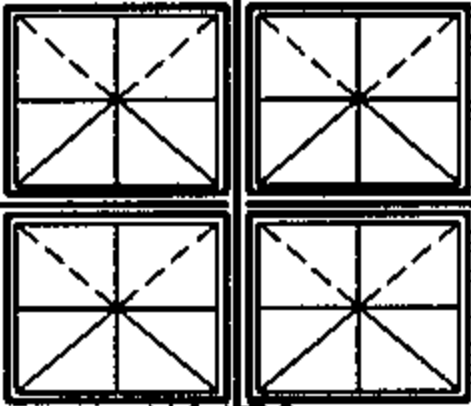
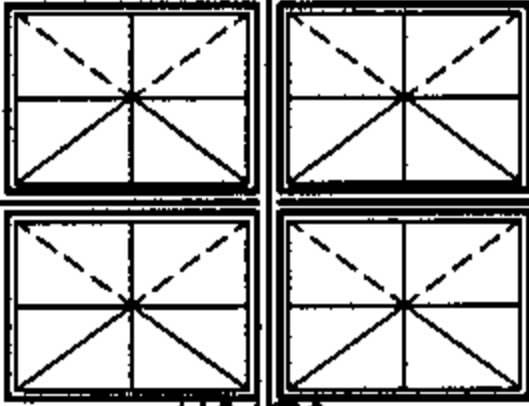
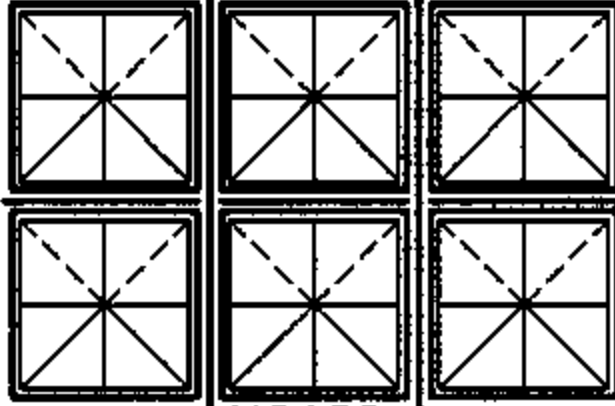
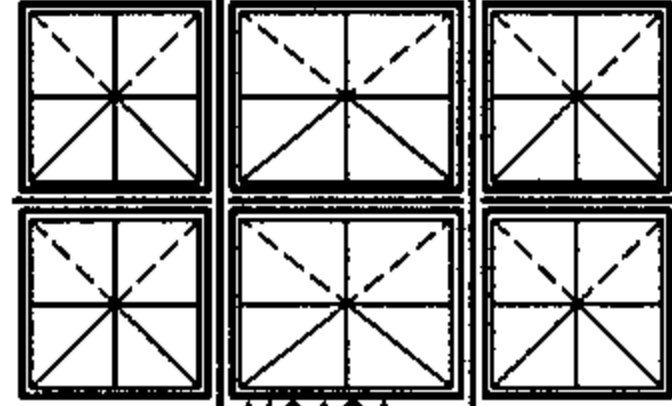
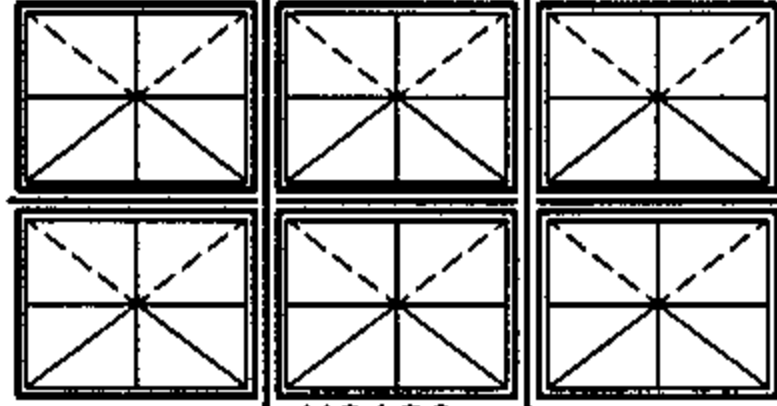
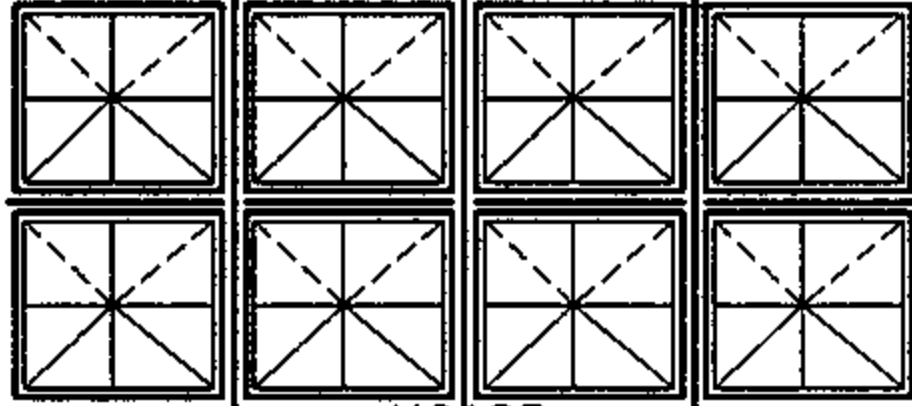
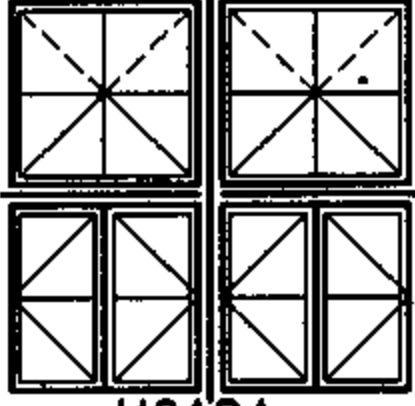
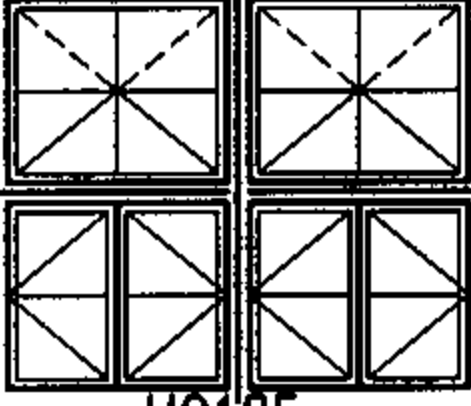
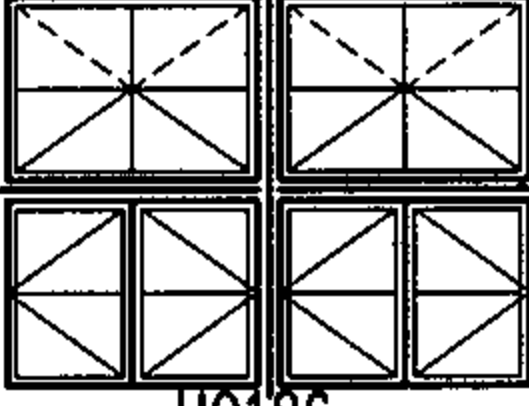
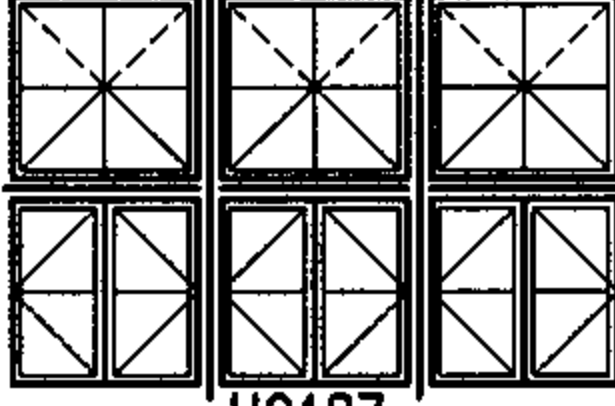
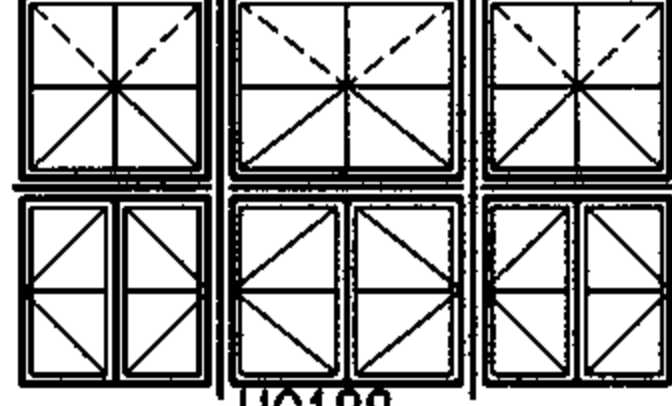
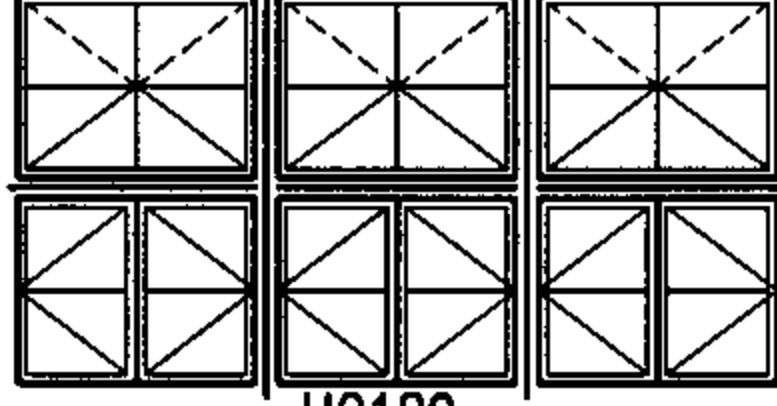
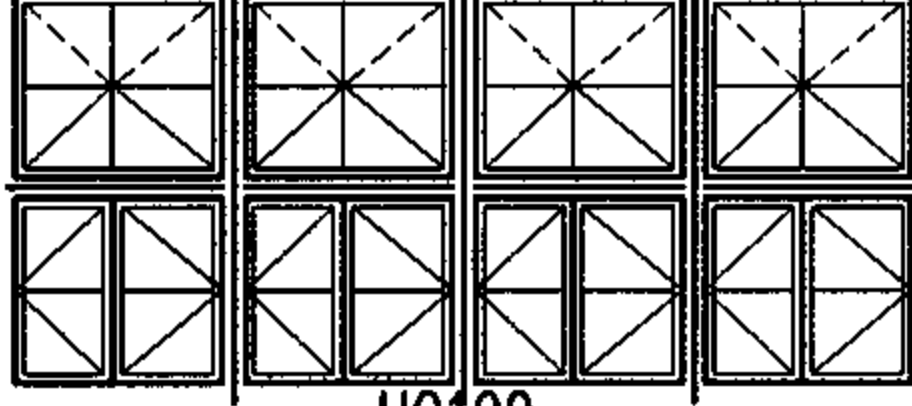
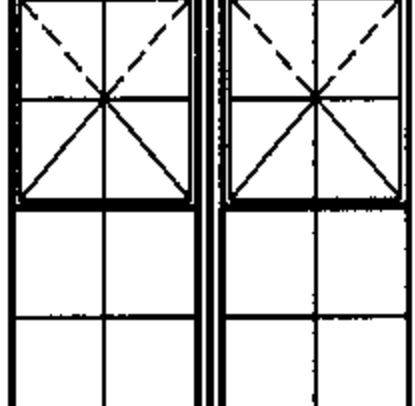
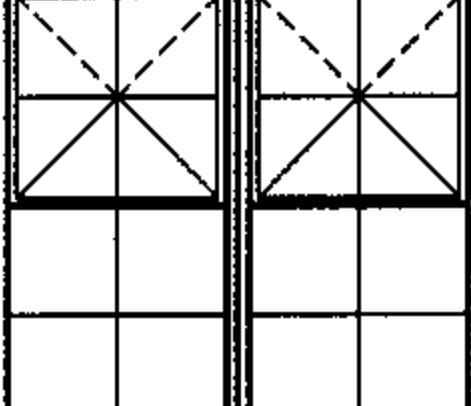
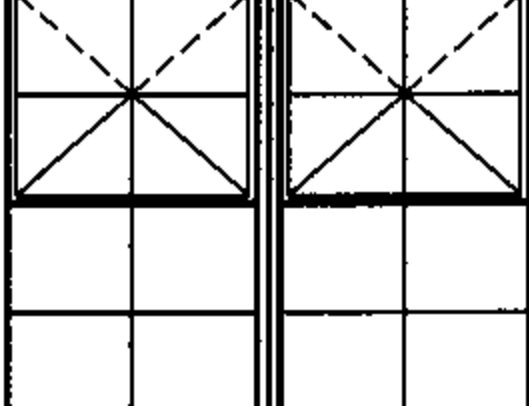
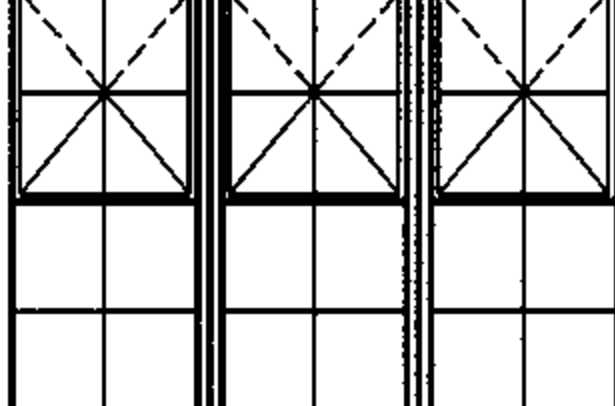
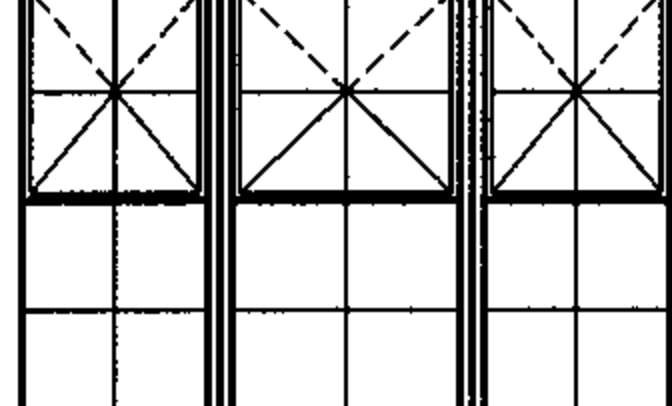
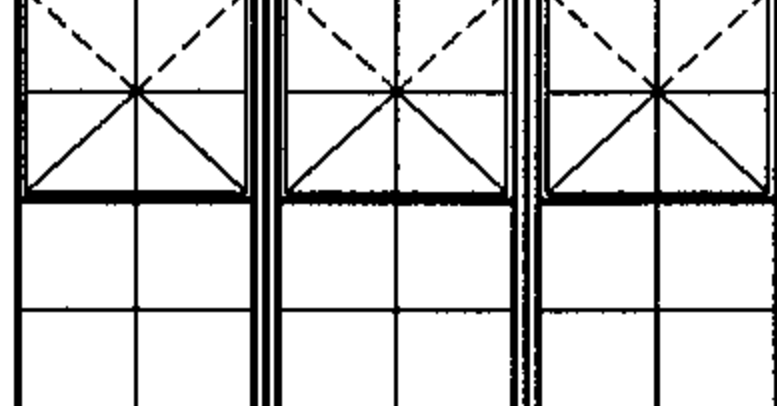
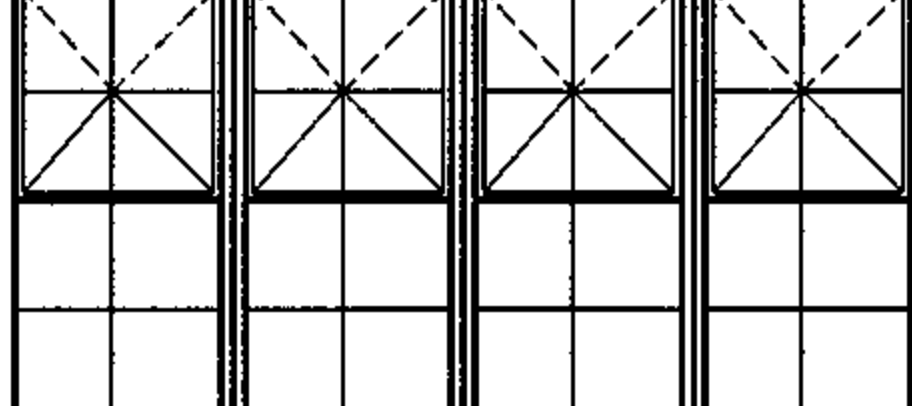
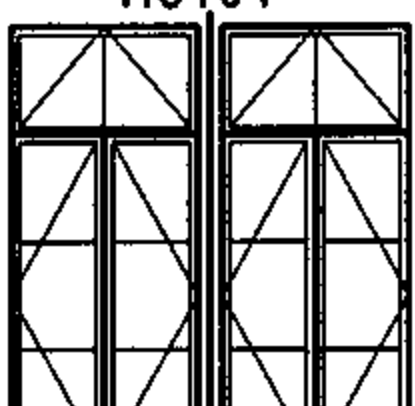
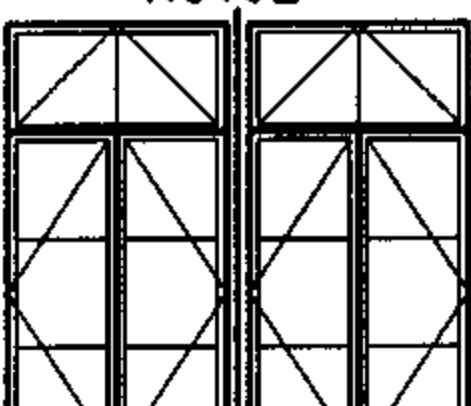
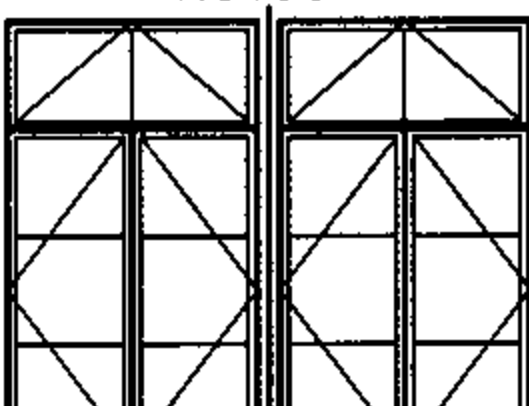
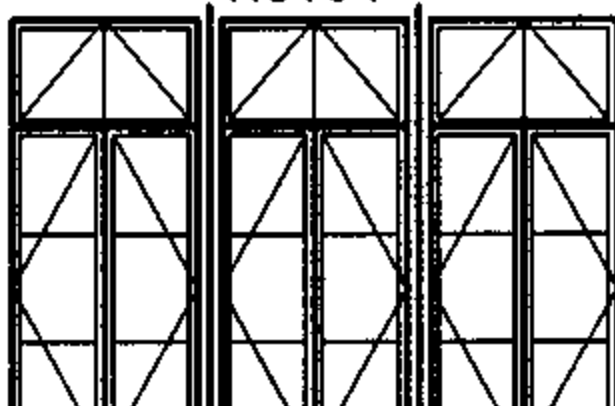
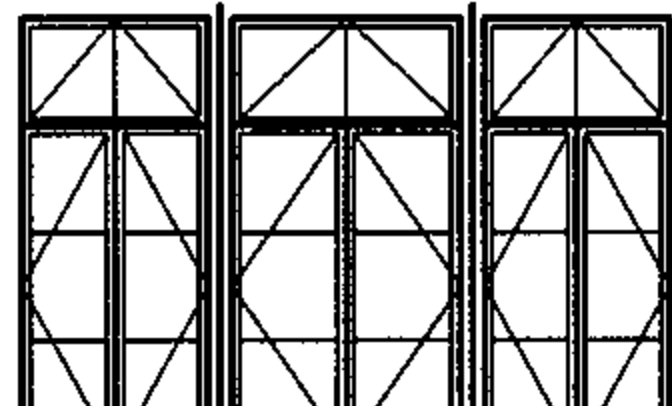
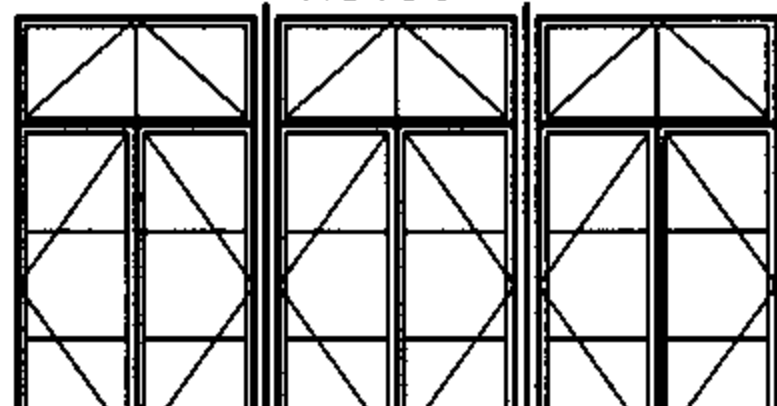
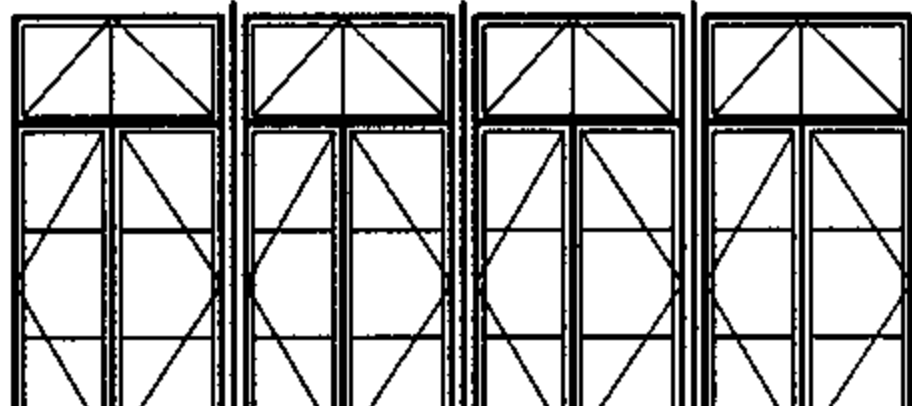
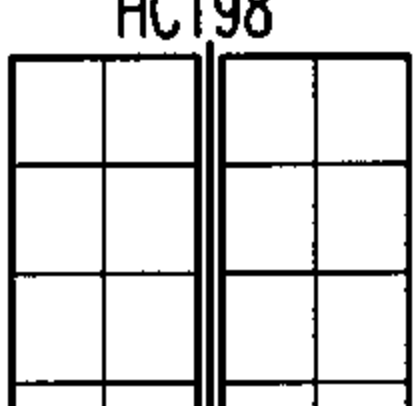
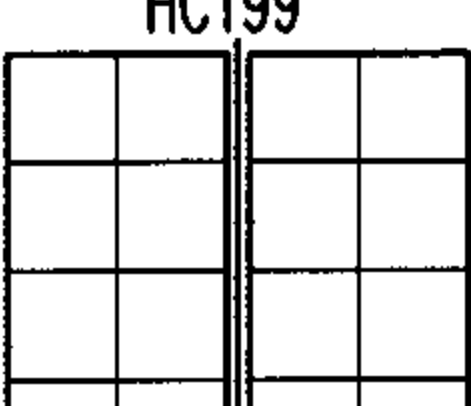
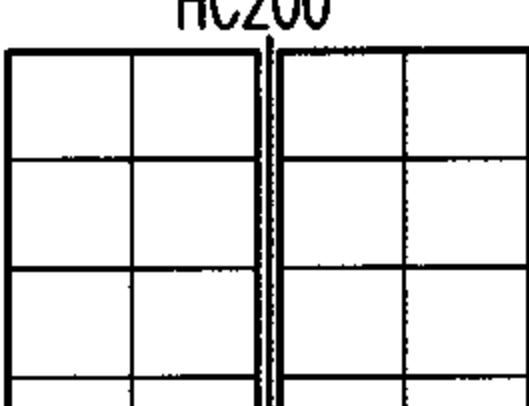
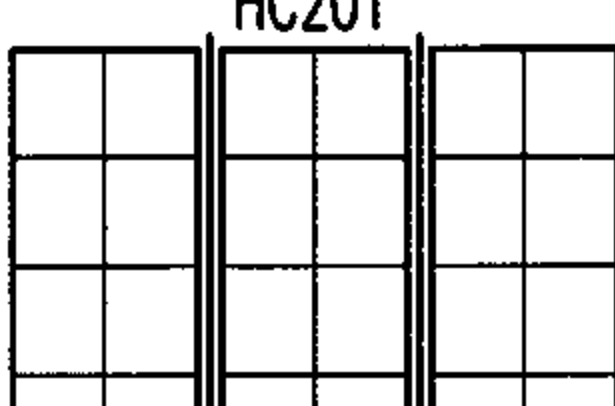
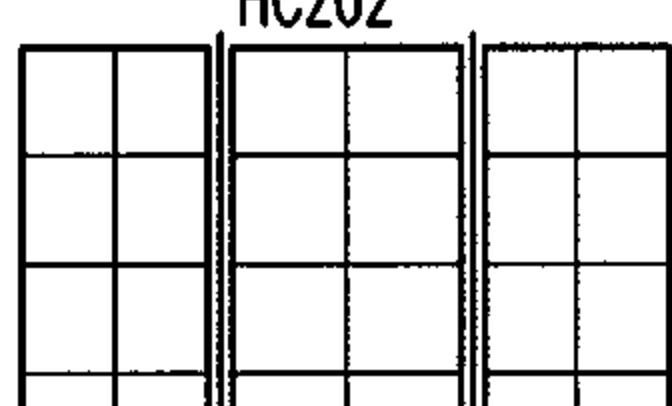
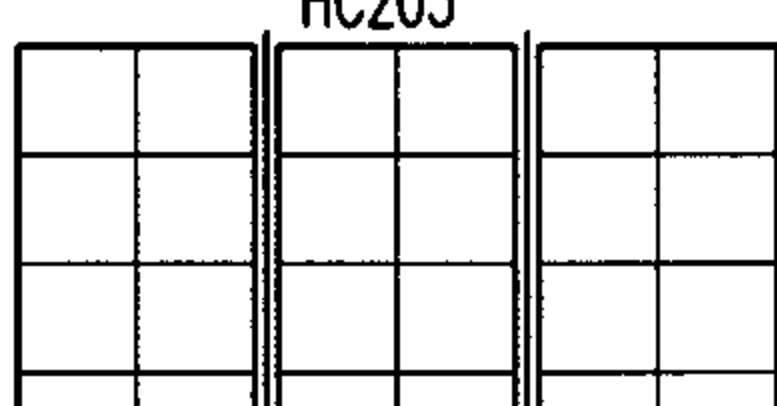
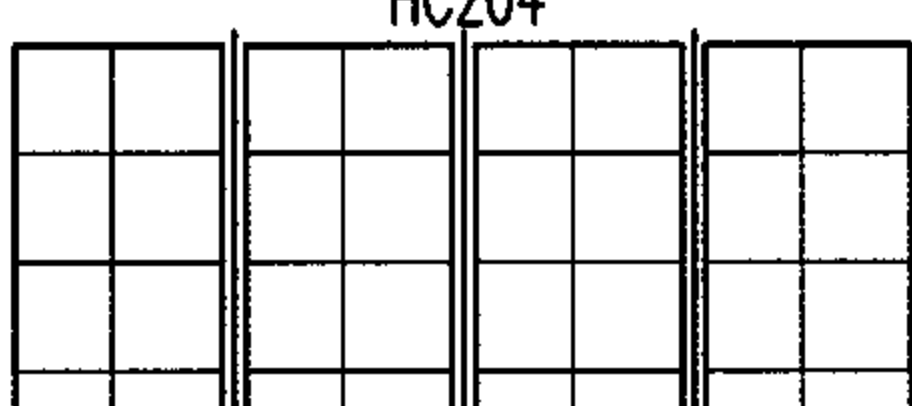
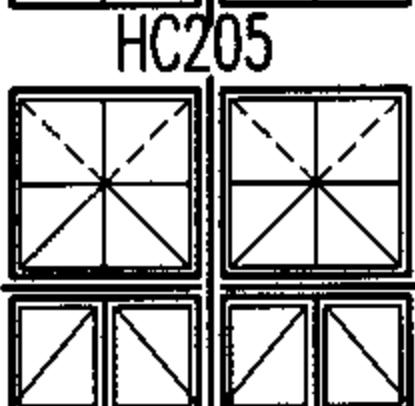
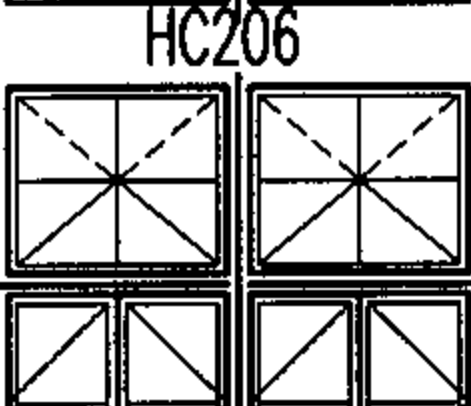
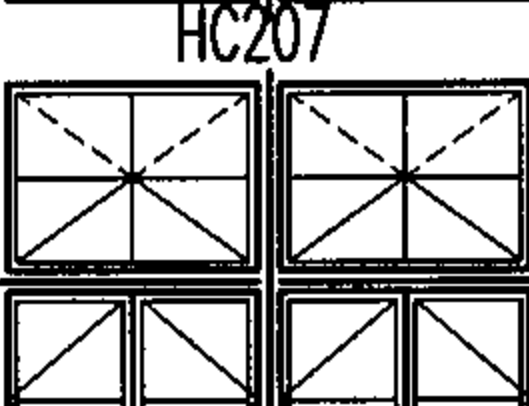
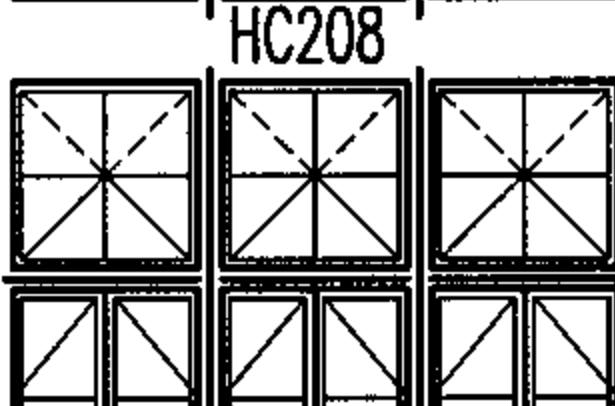
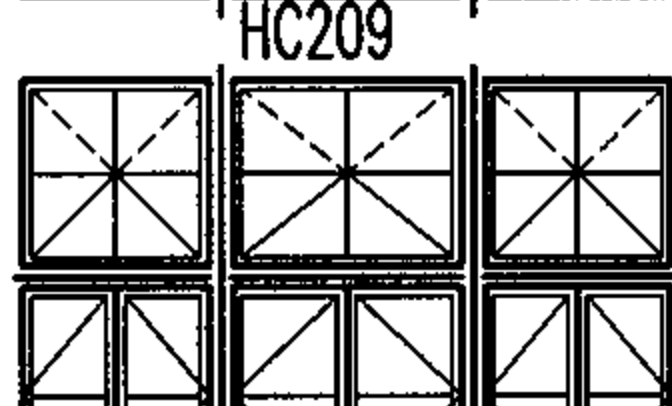
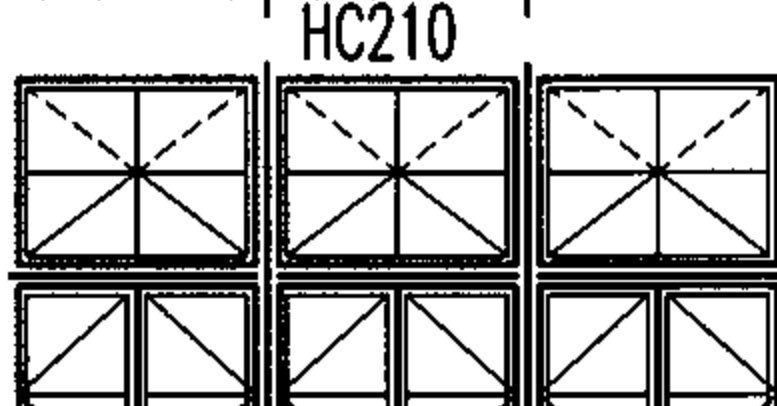
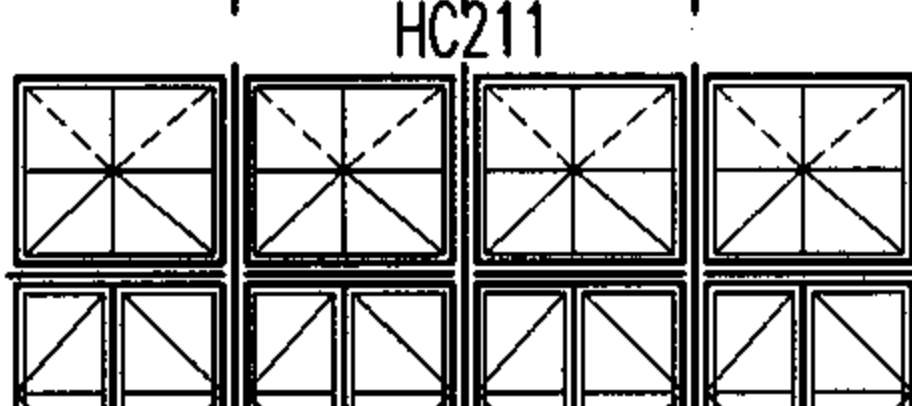
HC组合窗(三)

图集号 04J602-1

审核 郭景 李力 设计 孙钢男 孙钢男

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1500	18	15 4469 16 873 26 873 26 873 26 873 26 873  HC149	15 4770 15 1173 26 1173 26 1173 26 1173  HC150	15 5369 16 1173 26 1173 26 573 26 1173 26 1173  HC151	16 5968 16 573 26 1173 26 1173 26 1173 26 1173 26 573  HC152
		18 1464 18  HC153	18 1464 18  HC154	18 1464 18  HC155	18 1464 18  HC156
		18 1464 18  HC157	18 1464 18  HC158	18 1464 18  HC159	18 1464 18  HC160
		18 1464 18  HC161	18 1464 18  HC162	18 1464 18  HC163	18 1464 18  HC164
	28	20 1752 28  HC165	20 1752 28  HC166	20 1752 28  HC167	20 1752 28  HC168
		20 1752 28  HC169	20 1752 28  HC170	20 1752 28  HC171	20 1752 28  HC172
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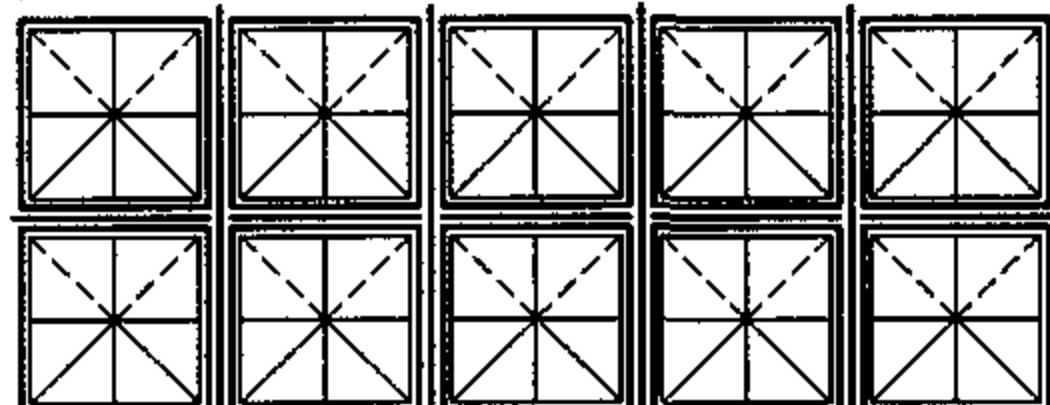
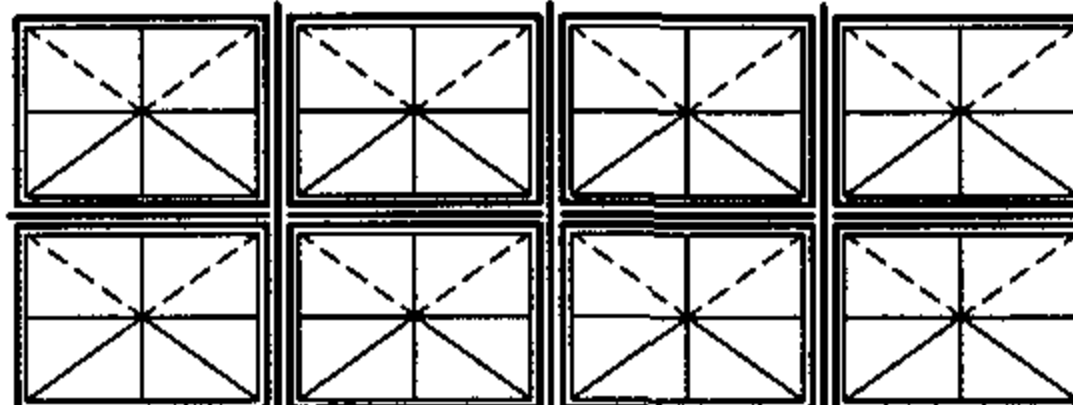
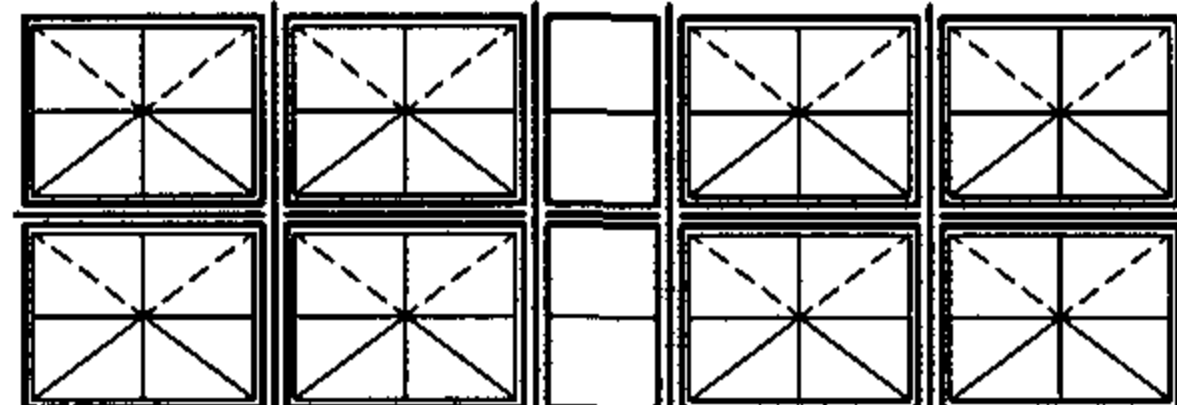
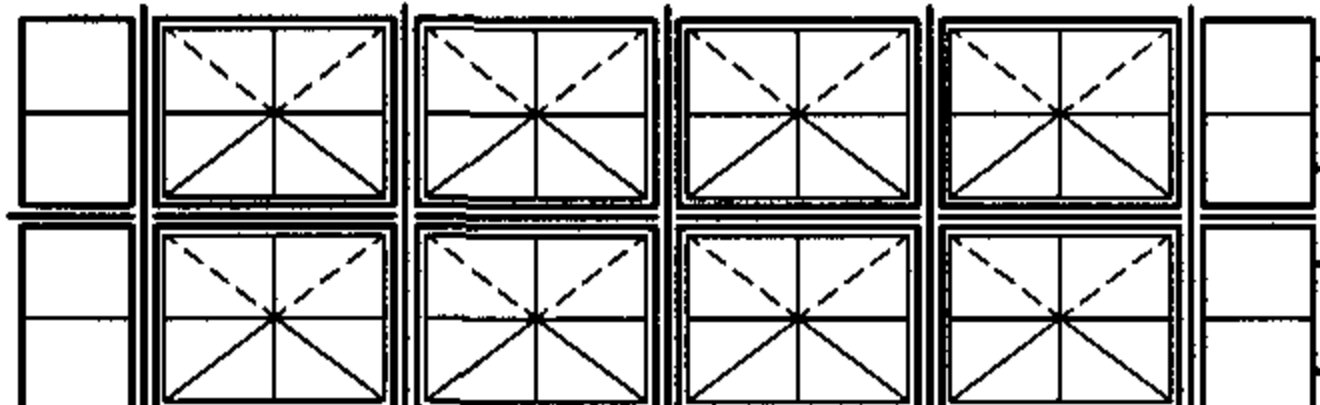
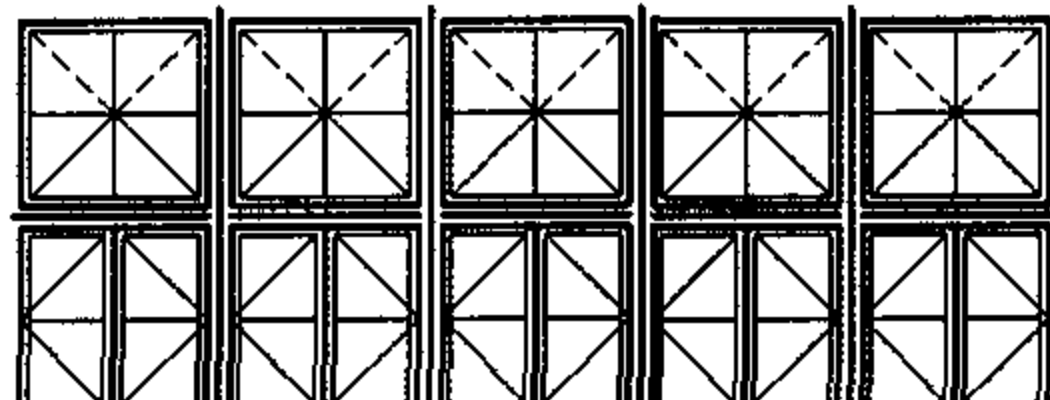
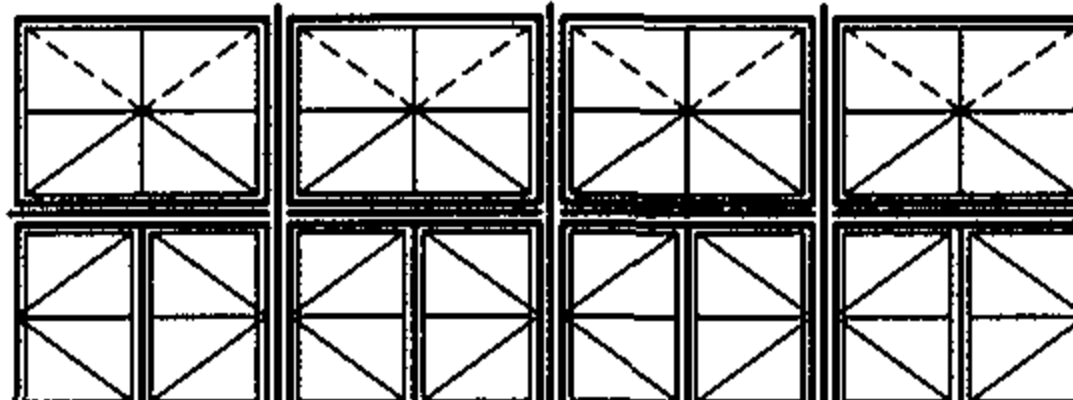
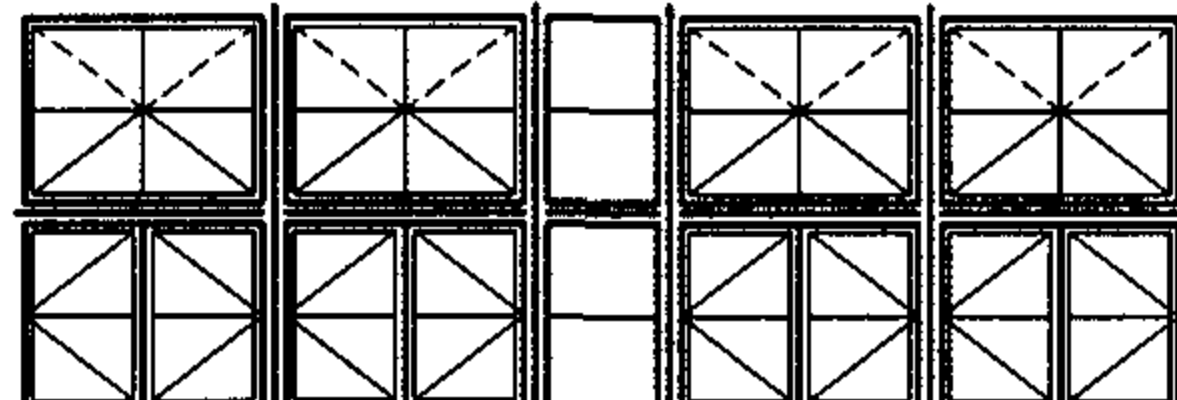
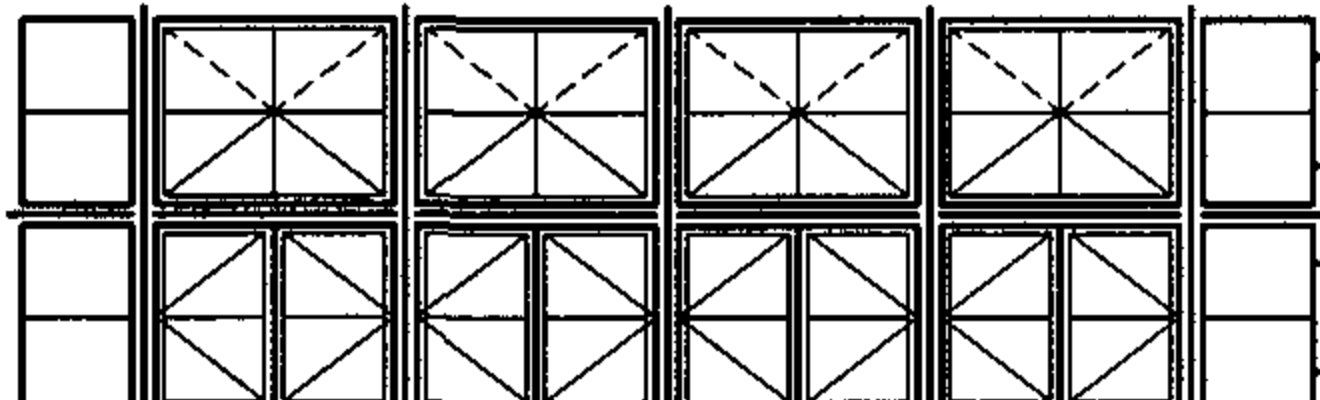
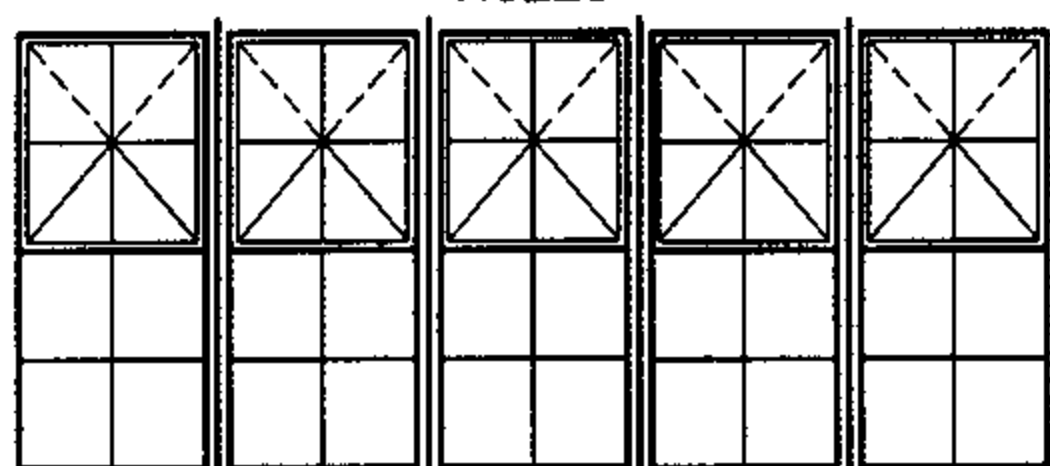
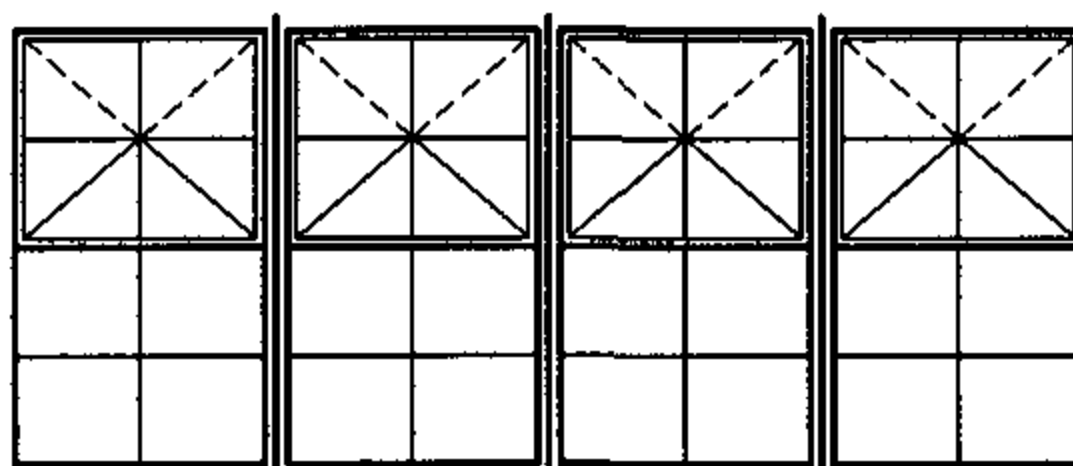
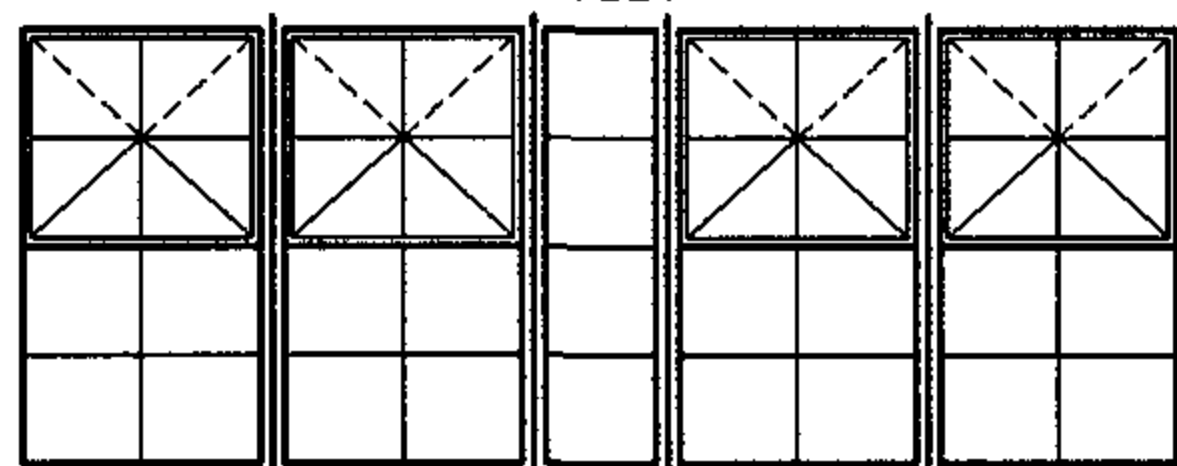
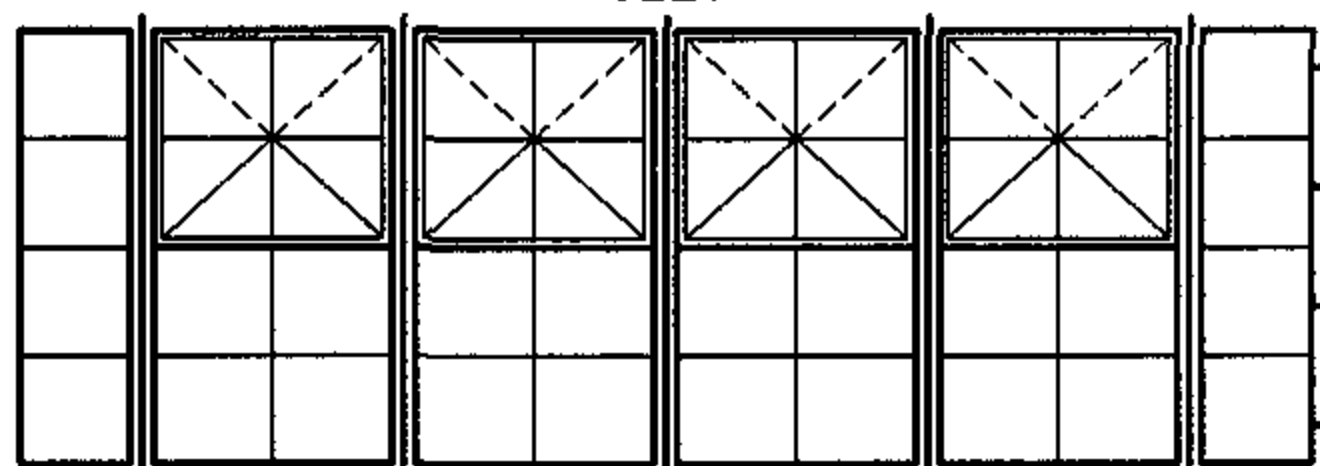
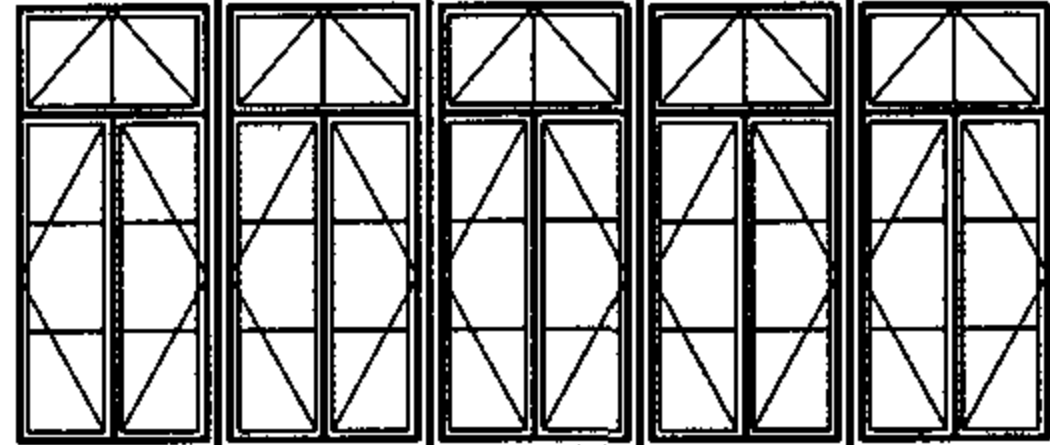
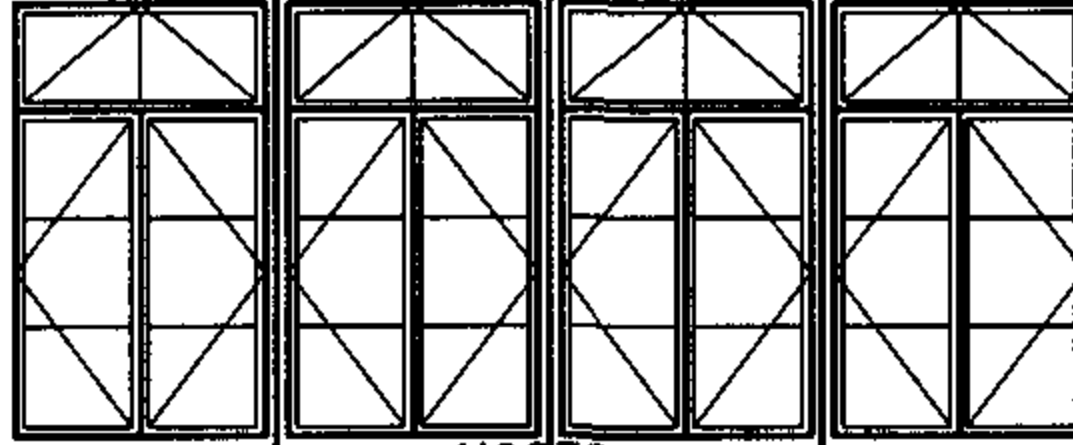
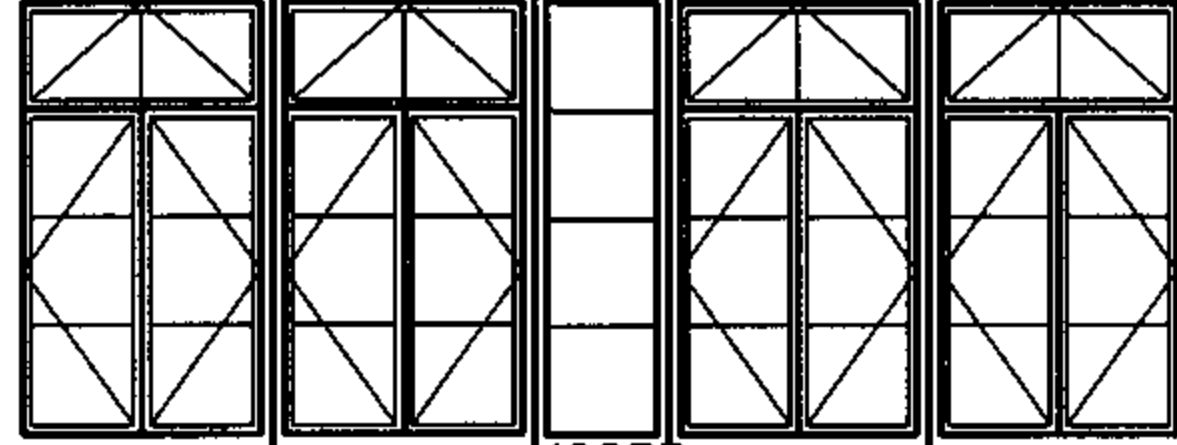
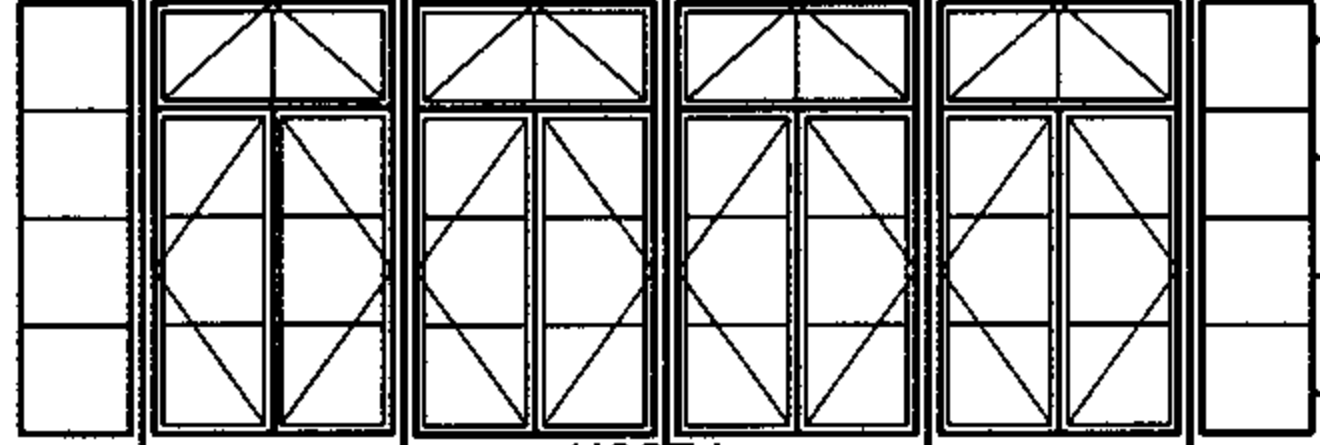
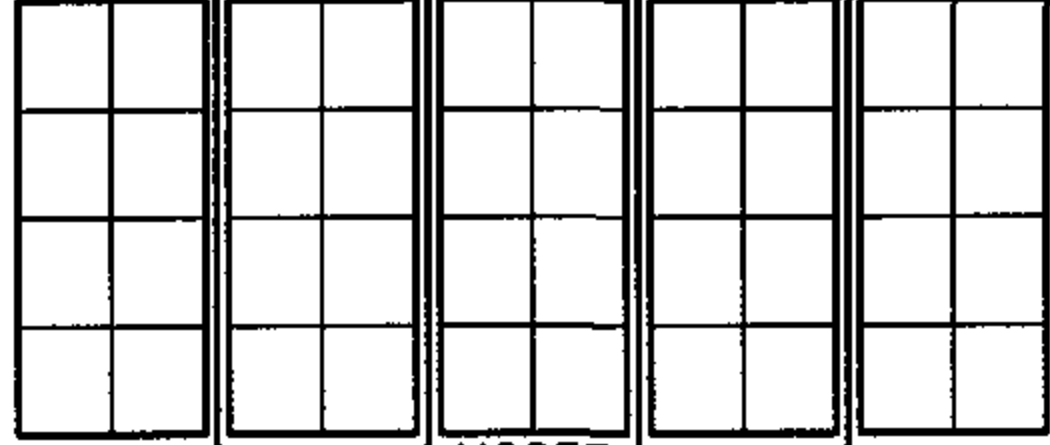
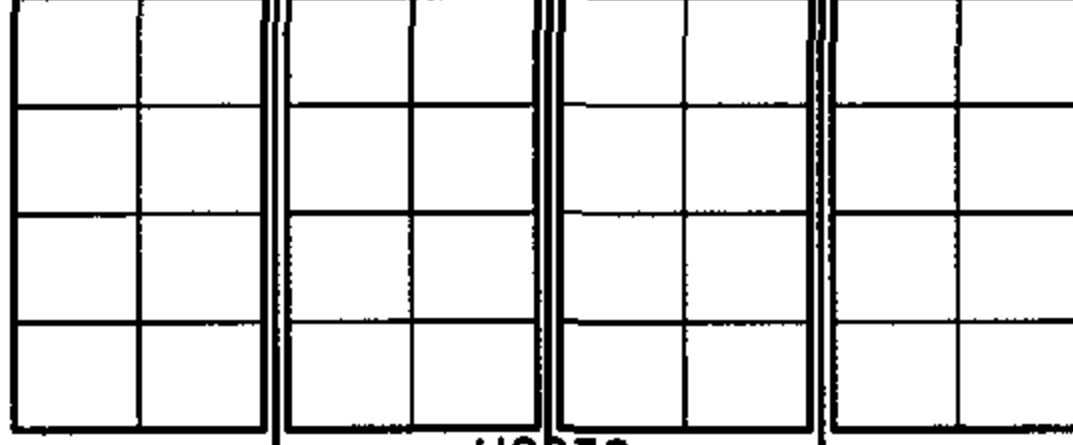
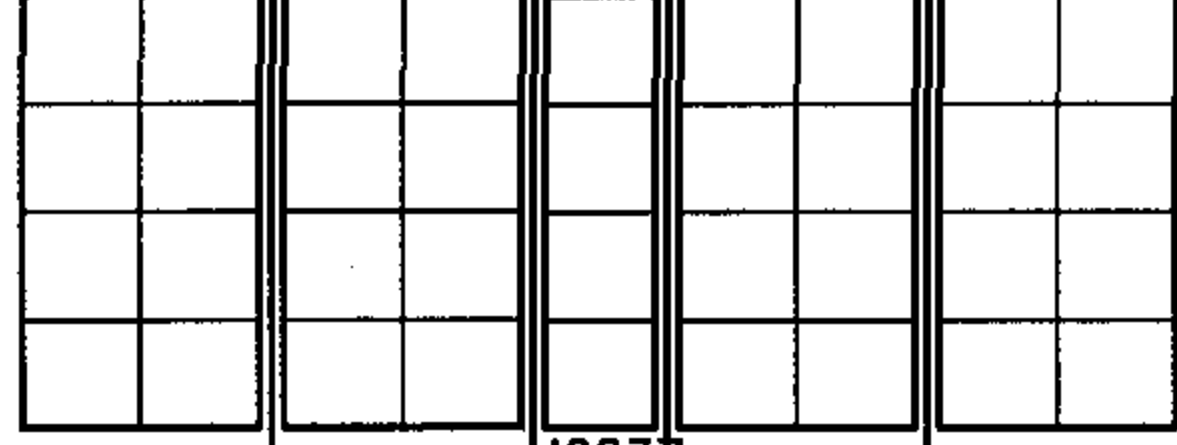
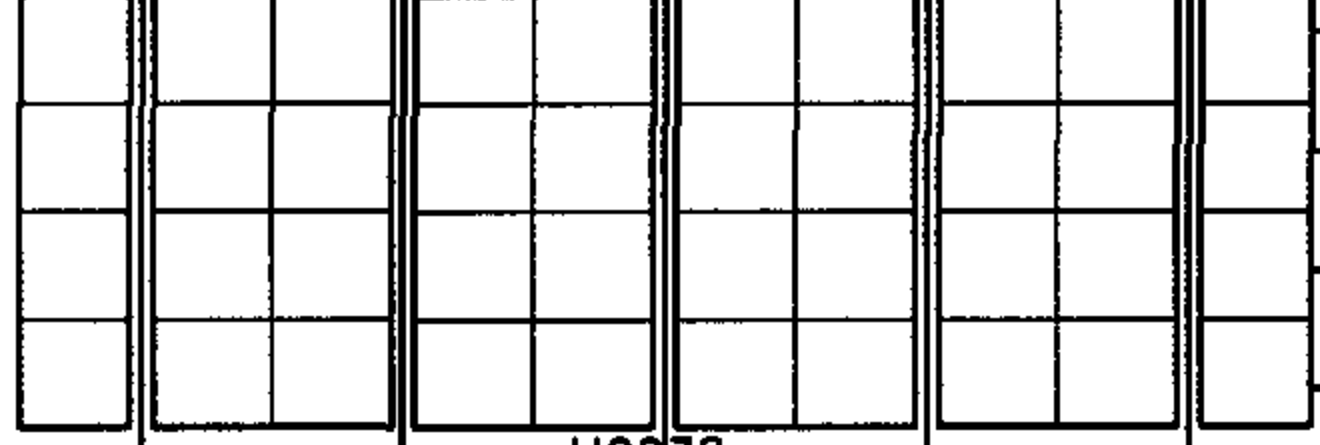
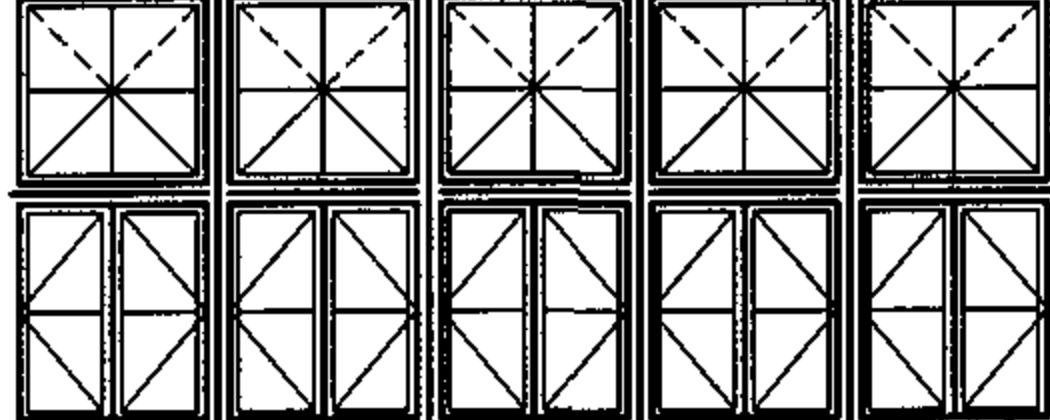
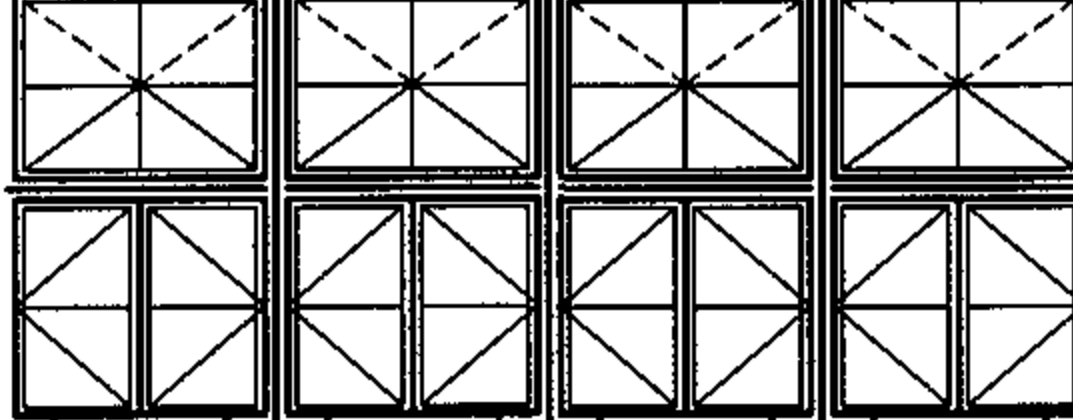
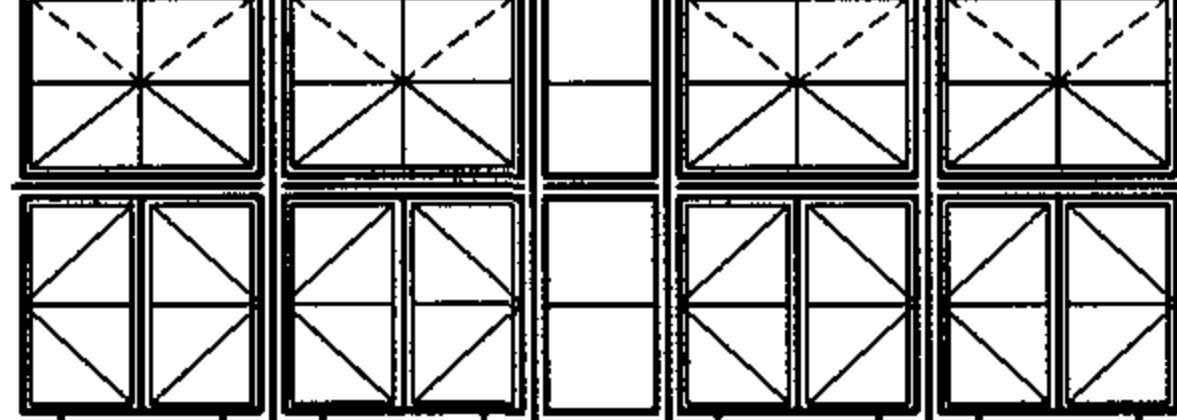
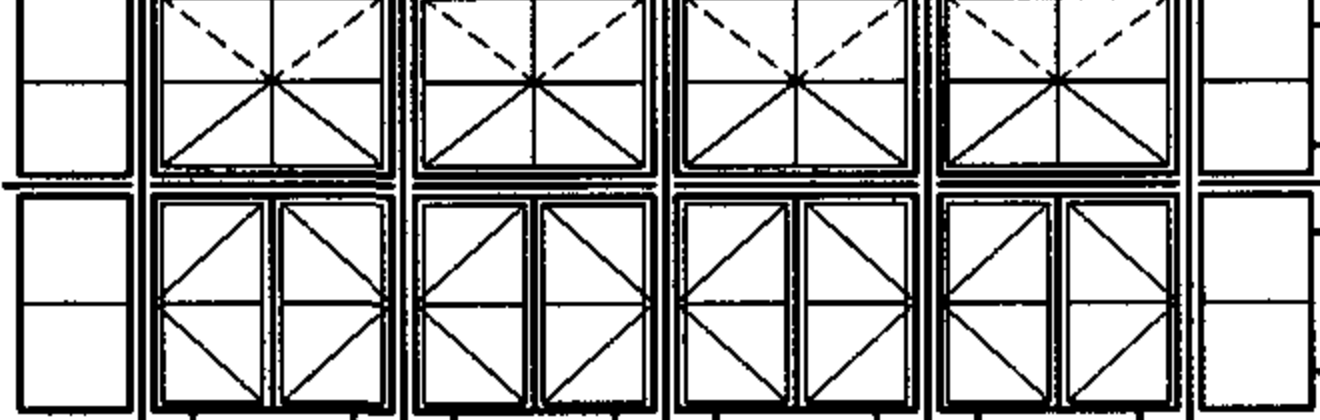
HC组合窗(四)										图集号	04J602-1
审核	郭景	邵	校对	李力	李	设计	孙钢男	徐钢男	页	25	

洞口	1800	2100	2400	2700	3000	3600	4200
1800	25 1749 26 25 873 3 873  HC177	26 25 2049 26 25 1023 3 1023  HC178	26 14 2349 26 14 1173 3 1173  HC179	15 14 2671 15 14 873 26 873 26 873  HC180	15 14 2971 15 14 873 26 1173 26 873  HC181	15 15 3571 15 15 1173 26 1173 26 1173  HC182	15 15 4170 15 15 1023 26 1023 26 1023 26 1023 26 1023  HC183
2100	20 1751 29 873 5 873  HC184	20 1751 29 873 5 873  HC185	20 1751 29 873 5 873  HC186	20 1751 29 873 5 873  HC187	20 1751 29 873 5 873  HC188	20 1751 29 873 5 873  HC189	20 1751 29 873 5 873  HC190
	20 2043 37 2043  HC191	20 2043 37 2043  HC192	20 2043 37 2043  HC193	20 2043 37 2043  HC194	20 2043 37 2043  HC195	20 2043 37 2043  HC196	20 2043 37 2043  HC197
	20 2043 37 2043  HC198	20 2043 37 2043  HC199	20 2043 37 2043  HC200	20 2043 37 2043  HC201	20 2043 37 2043  HC202	20 2043 37 2043  HC203	20 2043 37 2043  HC204
	20 2043 37 2043  HC205	20 2043 37 2043  HC206	20 2043 37 2043  HC207	20 2043 37 2043  HC208	20 2043 37 2043  HC209	20 2043 37 2043  HC210	20 2043 37 2043  HC211
	29 2051 1173 5 873  HC212	29 2051 1173 5 873  HC213	29 2051 1173 5 873  HC214	29 2051 1173 5 873  HC215	29 2051 1173 5 873  HC216	29 2051 1173 5 873  HC217	29 2051 1173 5 873  HC218

HC组合窗(五)

图集号 04J602-1

审核 郭景 校对 李力 设计 孙钢男 陈钢男

洞口		4500	4800	5400	6000	
1800		15 4469 16 873 26 873 26 873 26 873 26 873  HC219	15 4770 15 1173 26 1173 26 1173 26 1173  HC220	15 5369 16 1173 26 1173 26 573 26 1173 26 1173  HC221	16 5968 16 573 26 1173 26 1173 26 1173 26 1173 26 573  HC222	
		31 1749 20 873 5 873  HC223	29 1751 20 873 5 873  HC224	29 1751 20 873 5 873  HC225	29 1751 20 873 5 873  HC226	
	2100	20 2043 37  HC227	20 2043 37  HC228	20 2043 37  HC229	20 2043 37  HC230	
		20 2043 37  HC231	20 2043 37  HC232	20 2043 37  HC233	20 2043 37  HC234	
		20 2043 37  HC235	20 2043 37  HC236	20 2043 37  HC237	20 2043 37  HC238	
		29 2051 20 1173 5 873  HC239	29 2051 20 1173 5 873  HC240	29 2051 20 1173 5 873  HC241	29 2051 20 1173 5 873  HC242	
HC组合窗(六)						
审核 郭景 设计 孙钢男 校对 李力				图集号	04J602-1	
				页	27	

洞口	1800	2100	2400	2700	3000	3600	4200
2400	 HC243	 HC244	 HC245	 HC246	 HC247	 HC248	 HC249
	 HC250	 HC251	 HC252	 HC253	 HC254	 HC255	 HC256
	 HC257	 HC258	 HC259	 HC260	 HC261	 HC262	 HC263
	 HC264	 HC265	 HC266	 HC267	 HC268	 HC269	 HC270

HC组合窗(七)

图集号 04J602-1

审核 郭景 校对 李力 设计 孙钢男 孙钢男

洞口	4500	4800	5400	6000
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	20 2349 31 1173 3 1173 HC275	20 2349 31 1173 3 1173 HC276	20 2349 31 1173 3 1173 HC277	20 2349 31 1173 3 1173 HC278
	20 2349 31 1173 3 1173 HC279	20 2349 31 1173 3 1173 HC280	20 2349 31 1173 3 1173 HC281	20 2349 31 1173 3 1173 HC282
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20

2349

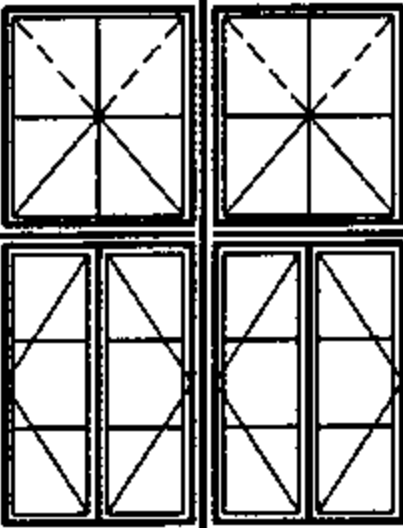
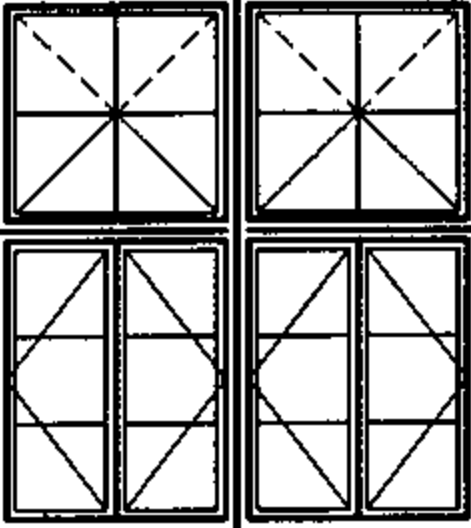
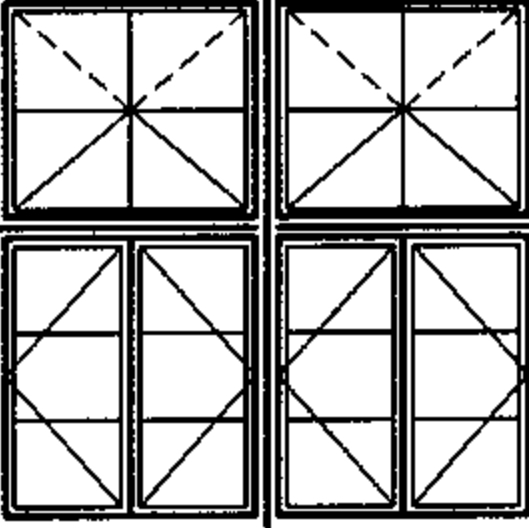
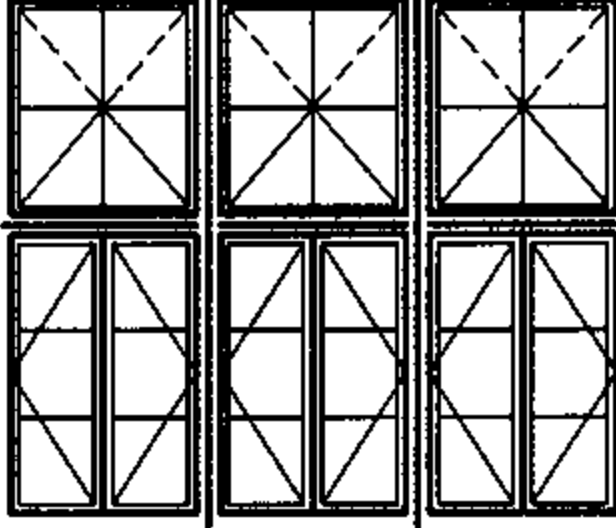
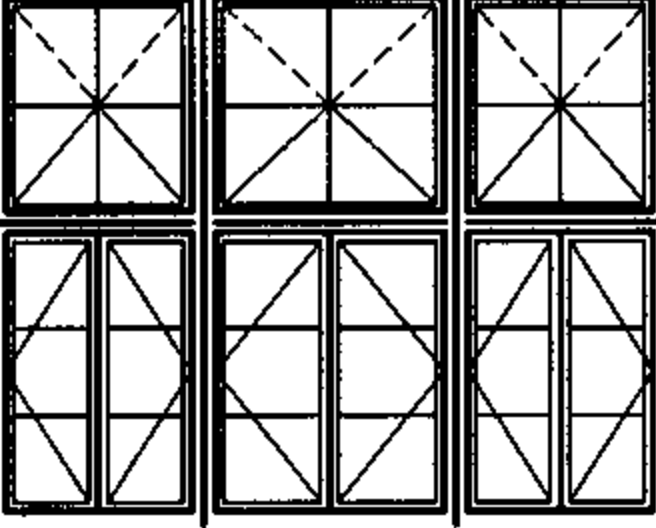
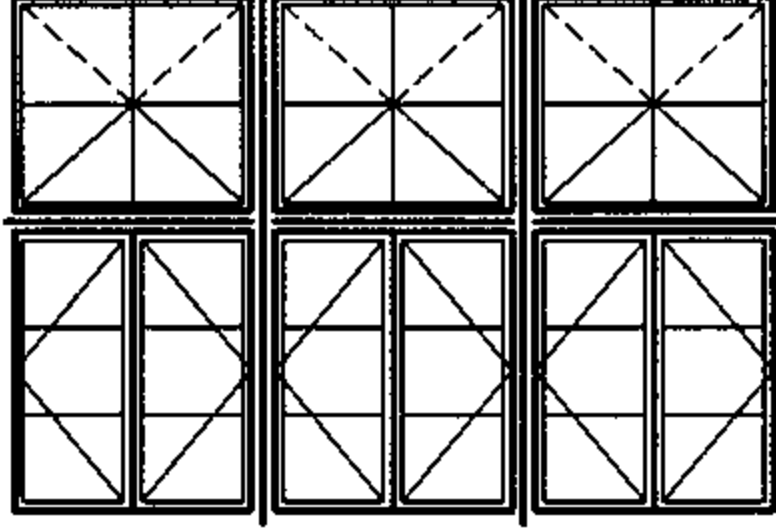
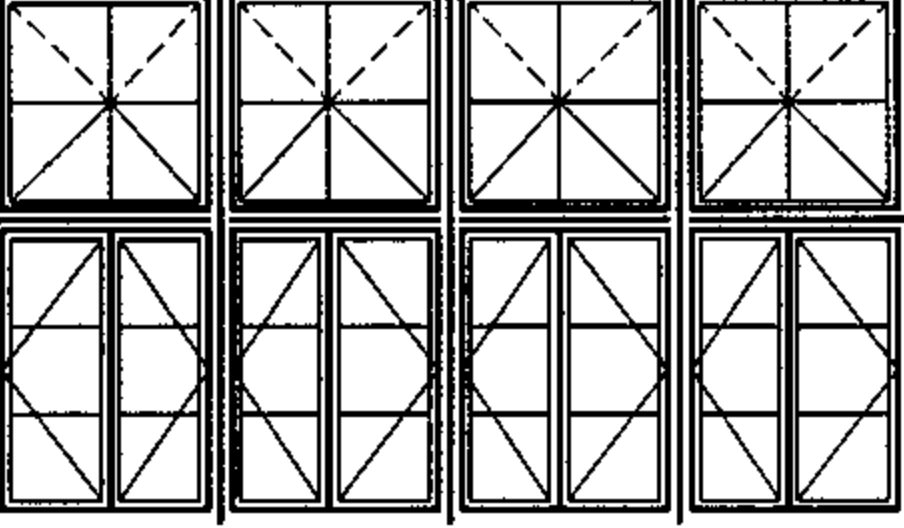
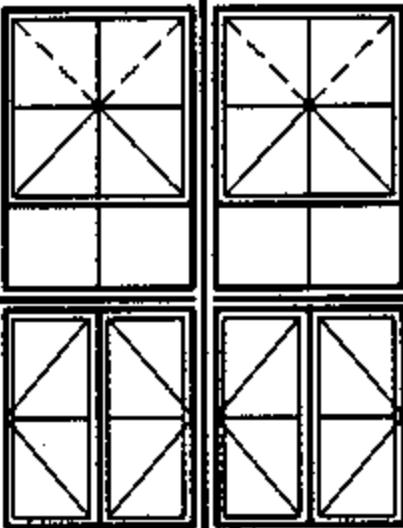
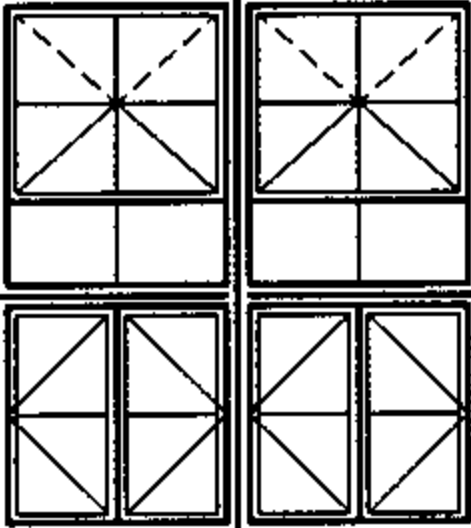
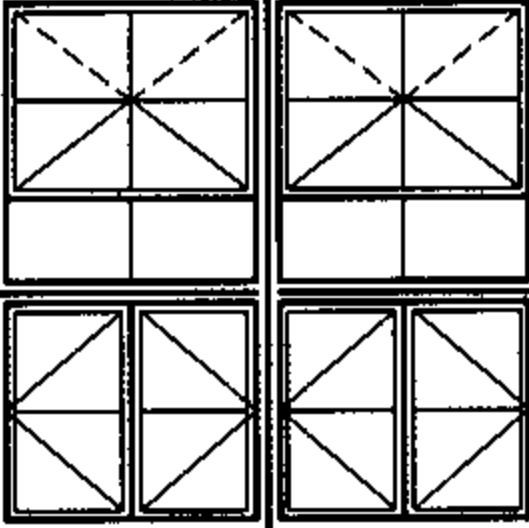
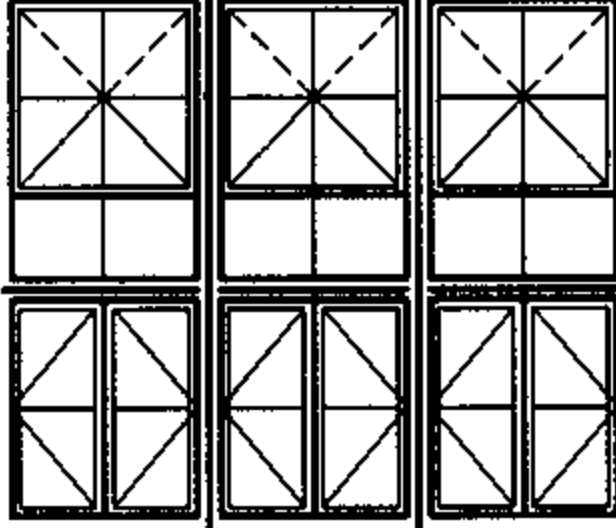
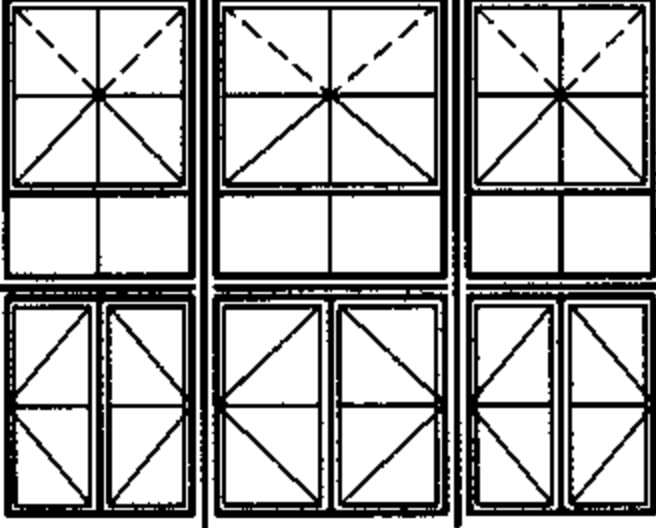
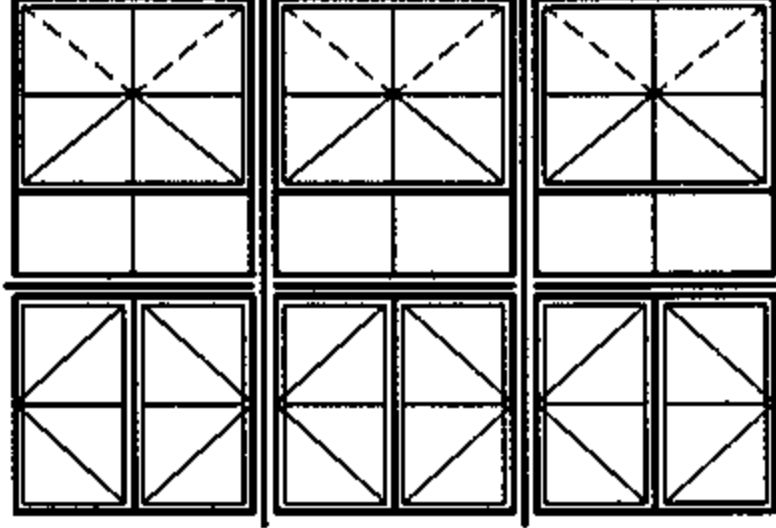
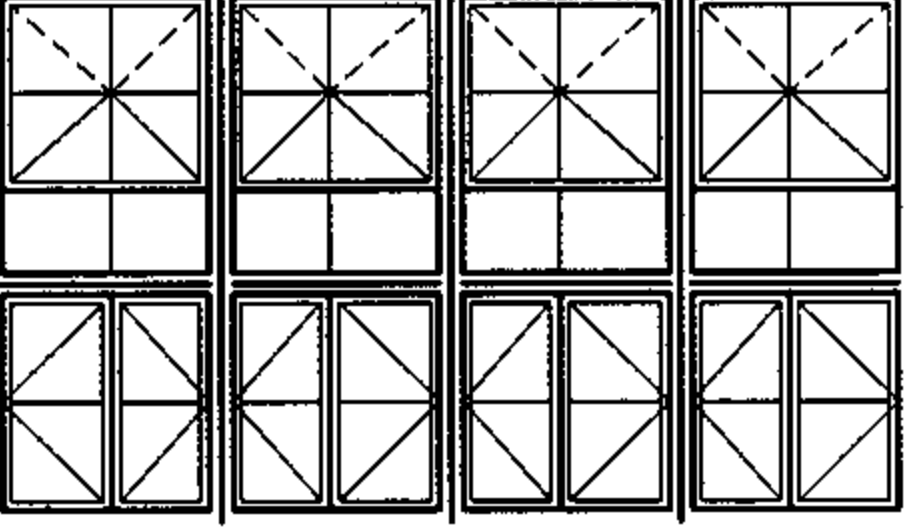
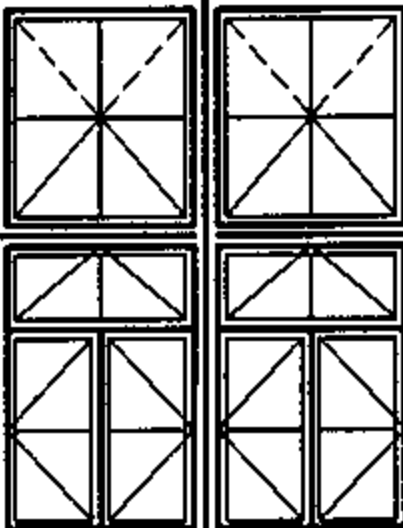
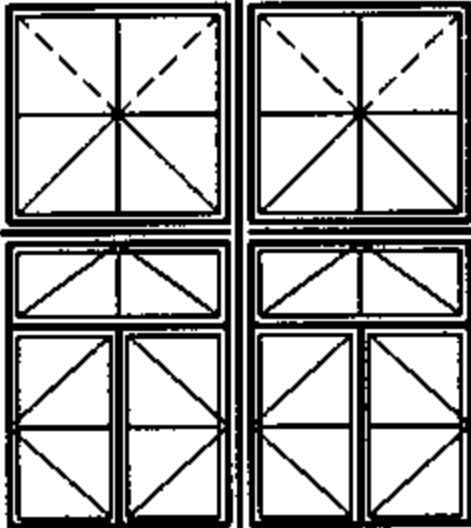
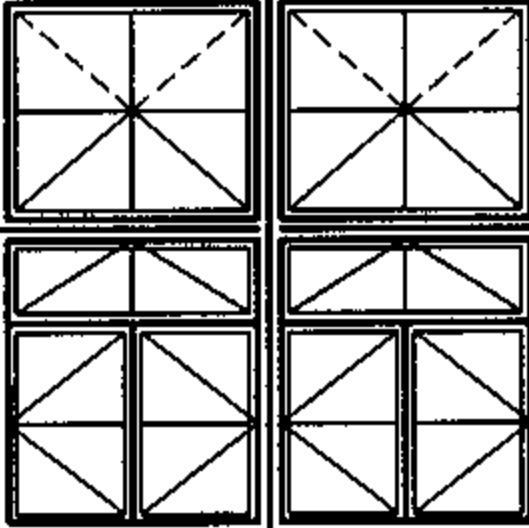
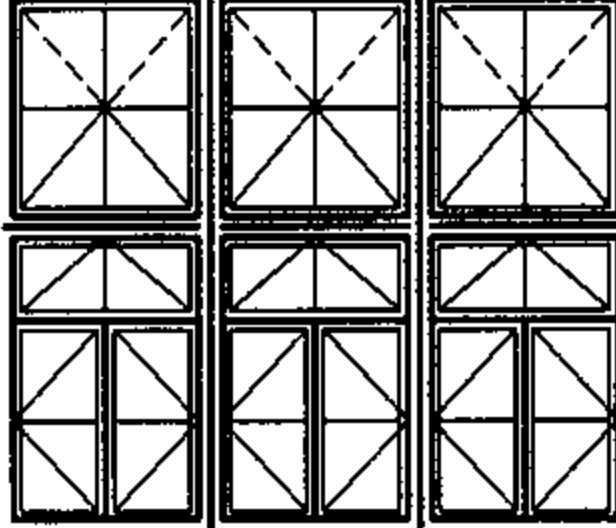
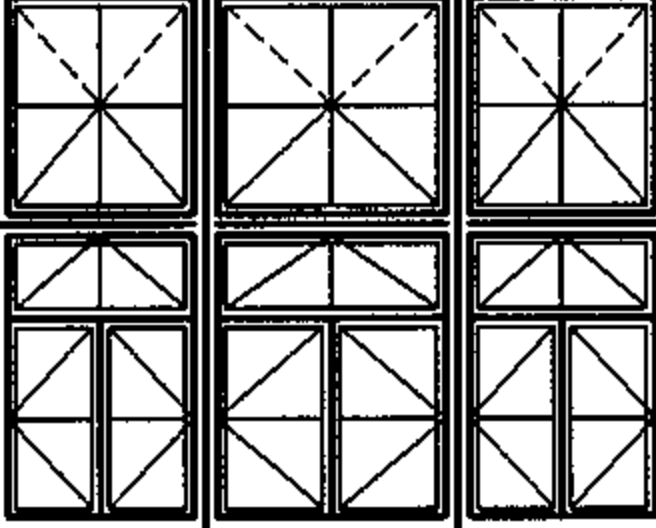
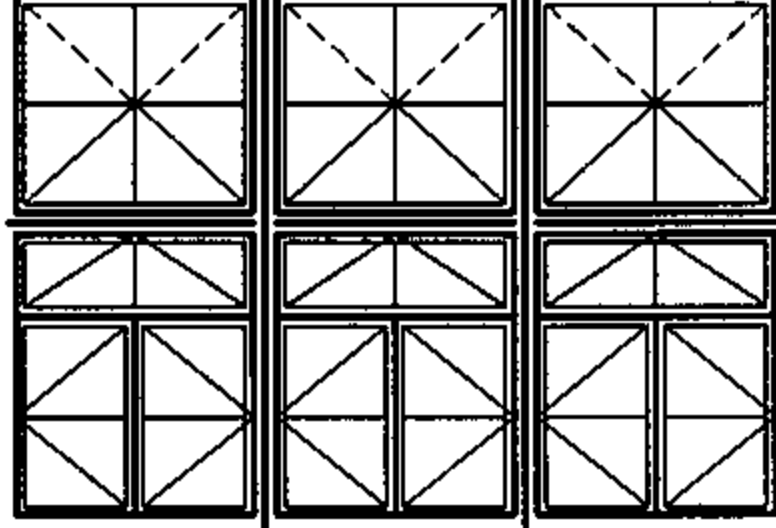
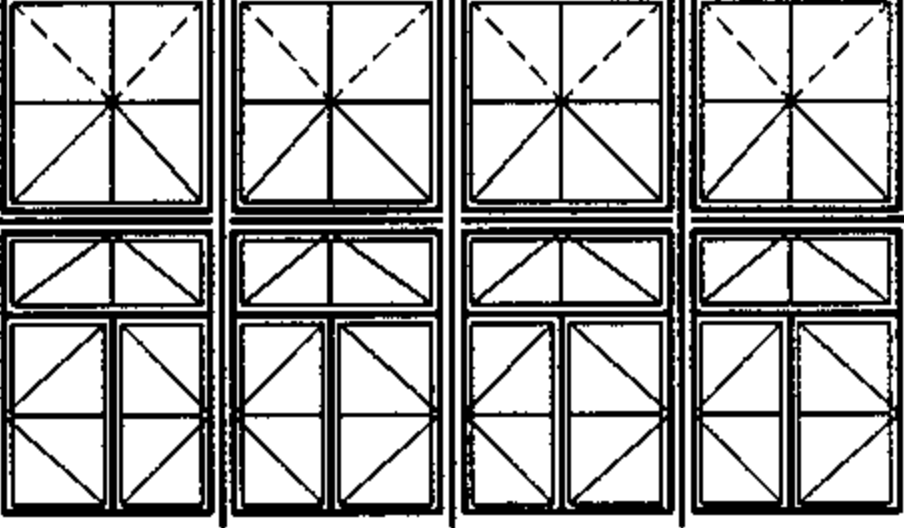
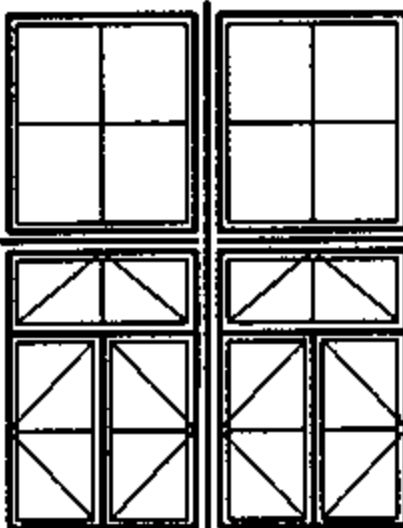
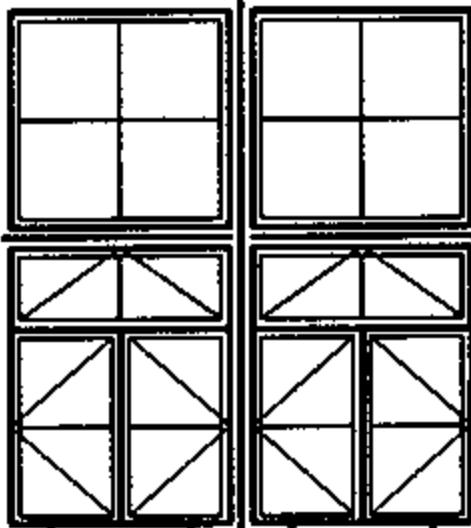
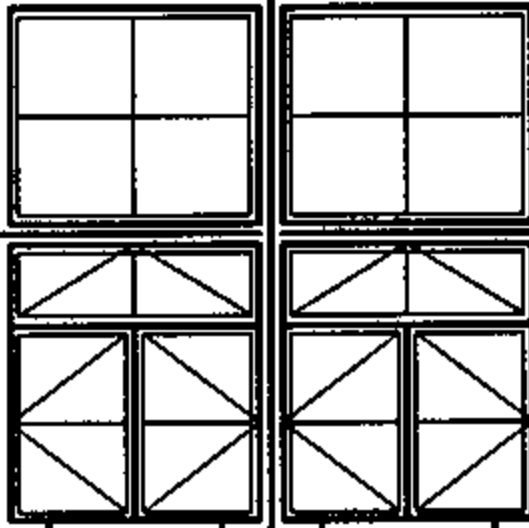
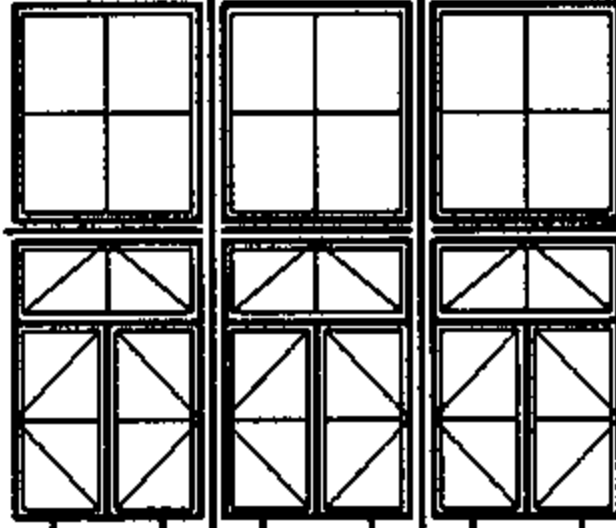
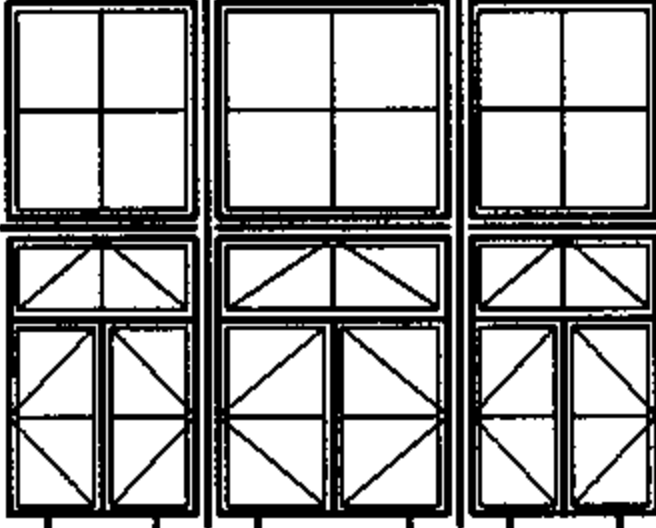
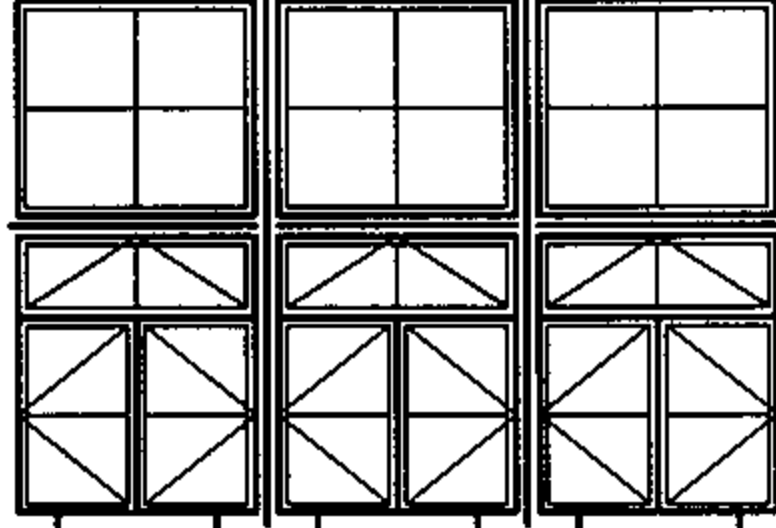
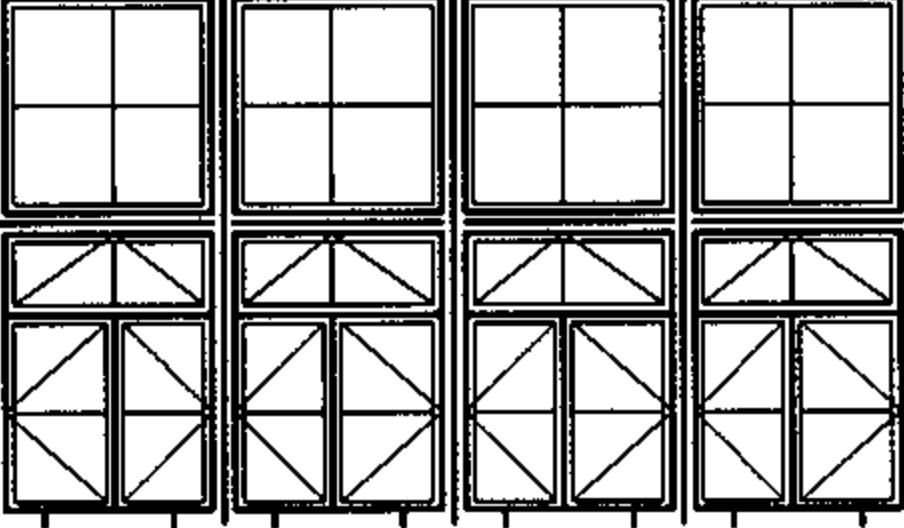
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HC272

HC组合窗(八)

图集号 04J602-1

审核 郭景 郭景 校对 李力 李力 设计 孙钢男 孙钢男

洞口	1800	2100	2400	2700	3000	3600	4200
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	20 2642 38  HC294	20 2642 38  HC295	20 2642 38  HC296	20 2642 38  HC297	20 2642 38  HC298	20 2642 38  HC299	20 2642 38  HC300
	20 2642 38  HC301	20 2642 38  HC302	20 2642 38  HC303	20 2642 38  HC304	20 2642 38  HC305	20 2642 38  HC306	20 2642 38  HC307
	20 2642 38  HC308	20 2642 38  HC309	20 2642 38  HC310	20 2642 38  HC311	20 2642 38  HC312	20 2642 38  HC313	20 2642 38  HC314

HC组合窗(九)

图集号

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审核 郭景

校对 李力

设计 孙钢男

孙钢男

页

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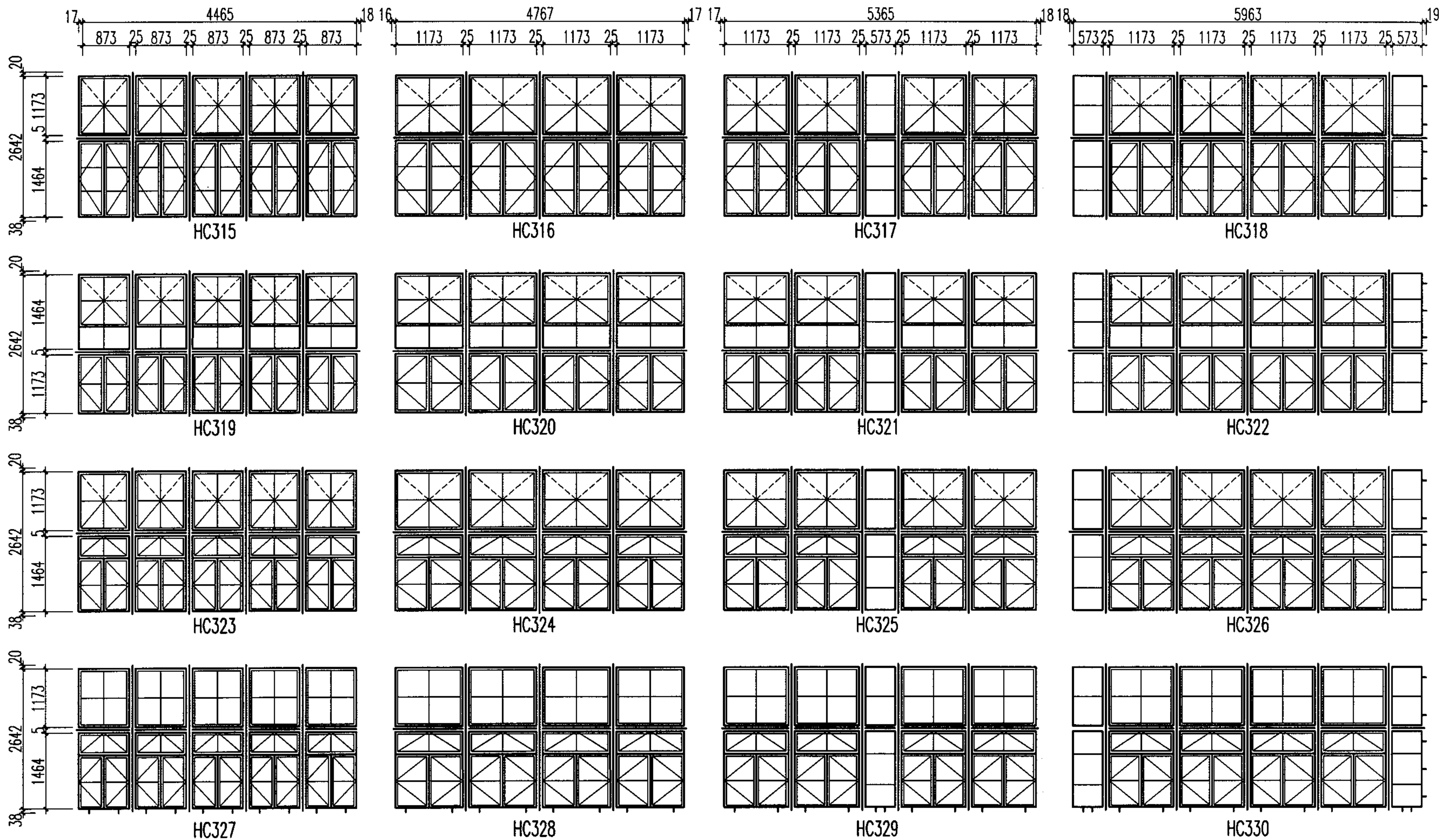
4500

4800

5400

6000

2700



HC组合窗(十)

图集号

04J602-1

审核 郭景

设计

校对 李力

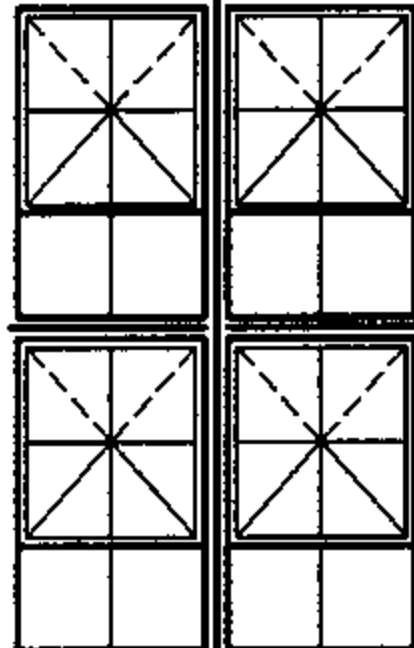
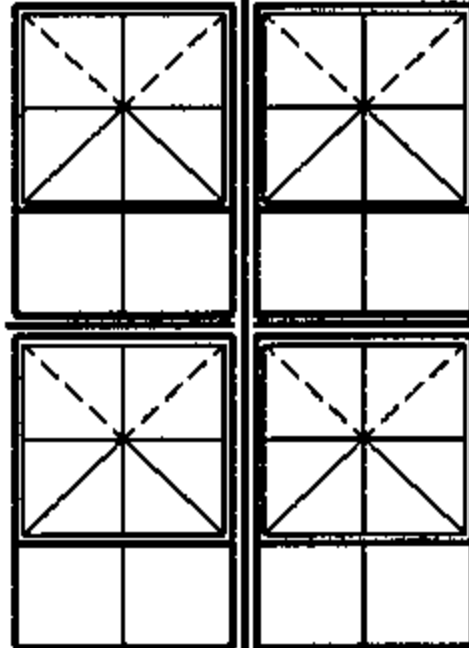
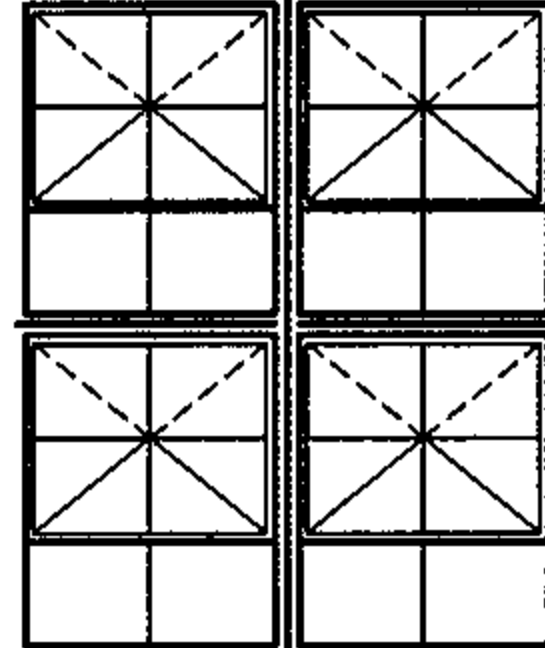
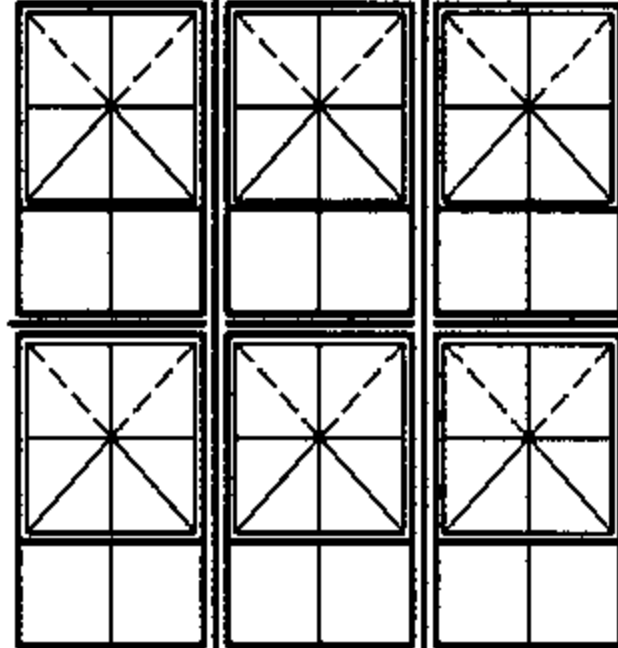
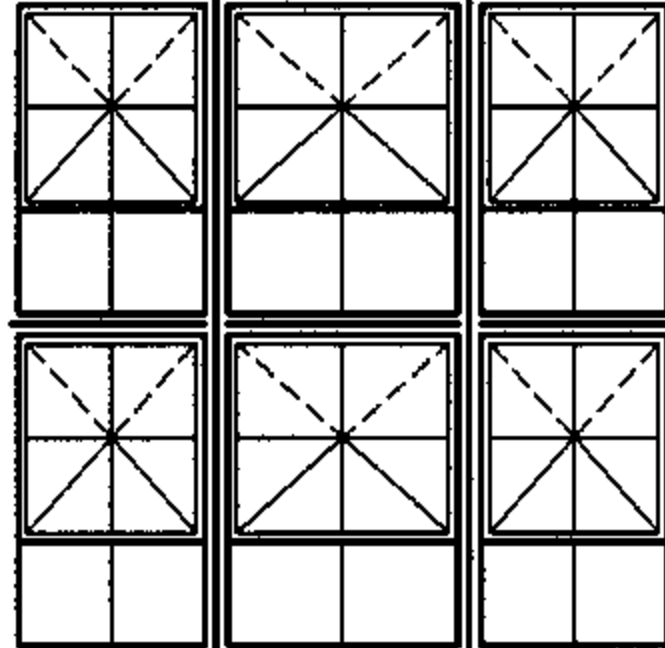
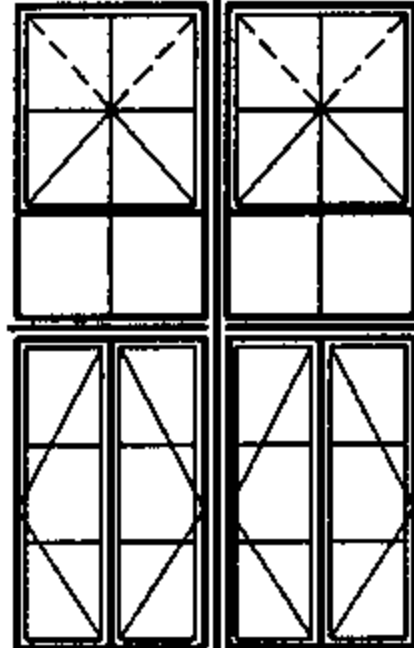
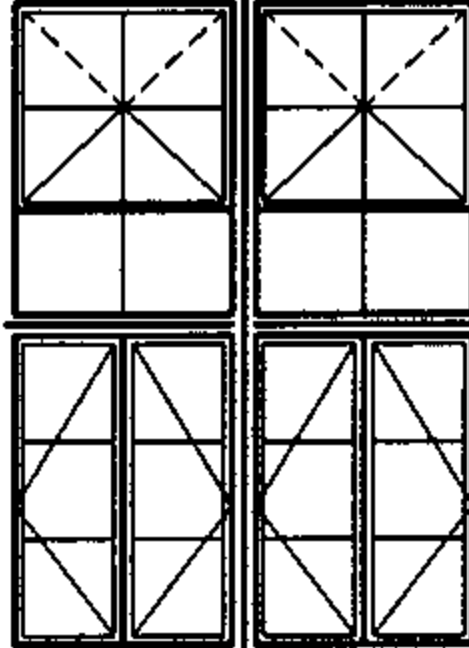
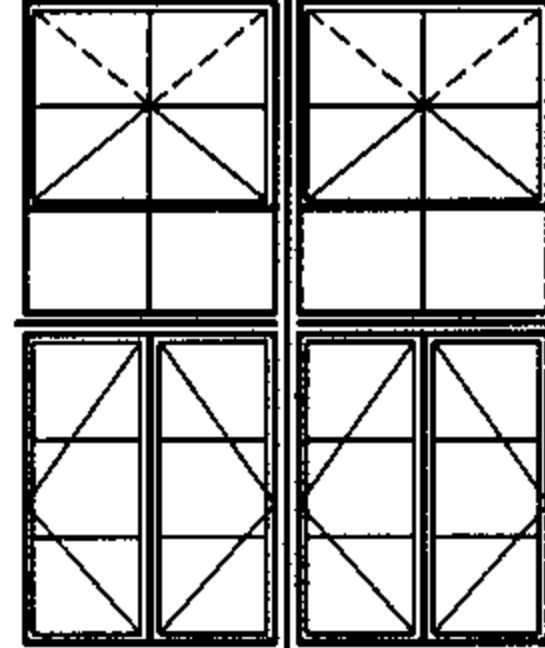
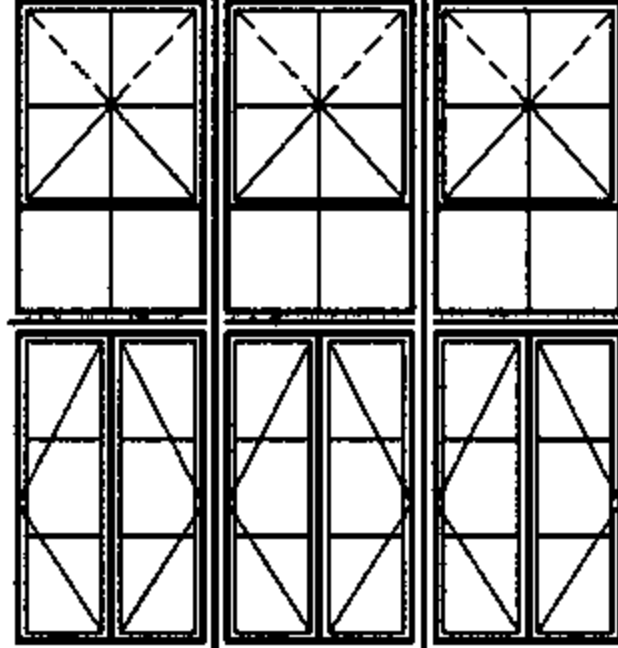
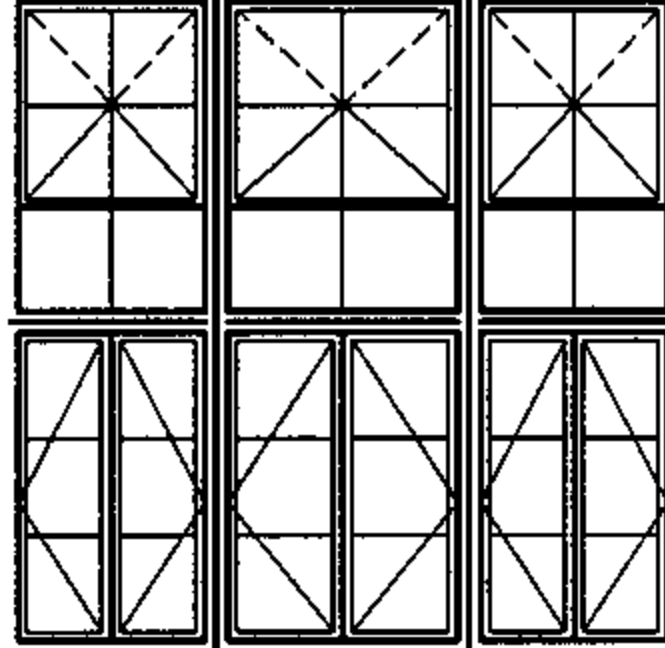
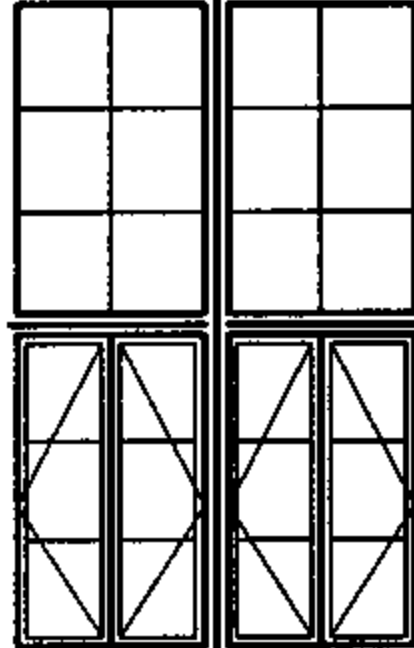
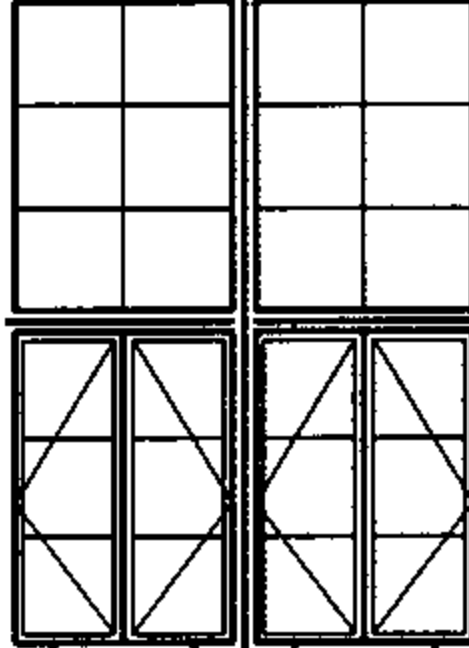
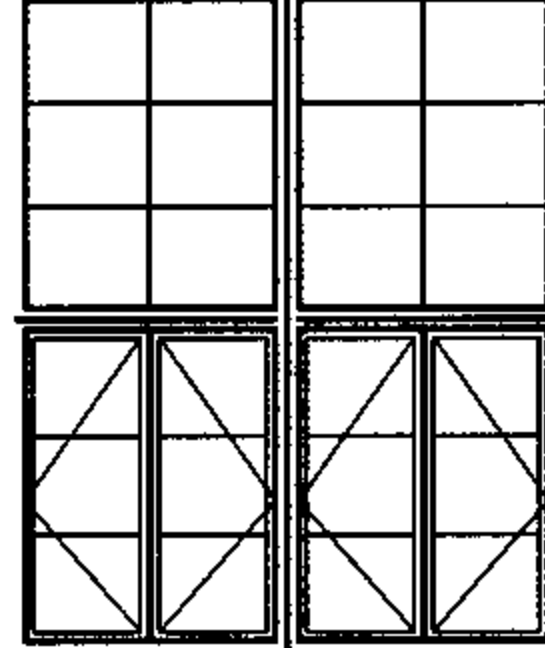
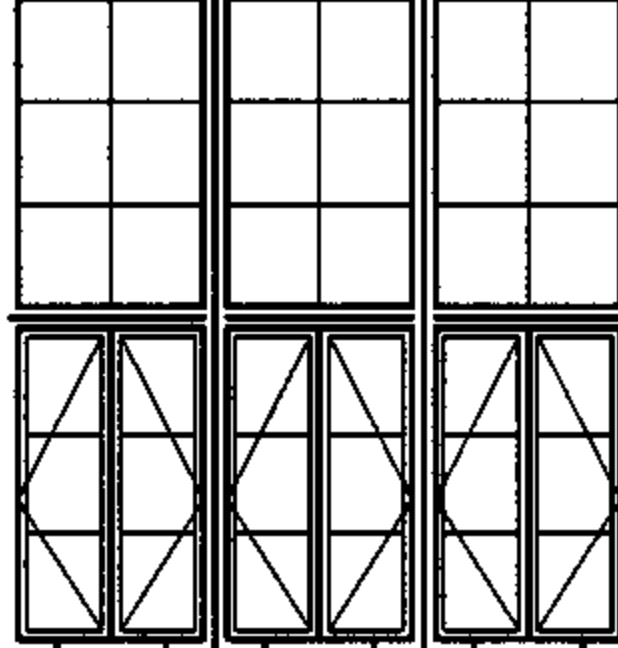
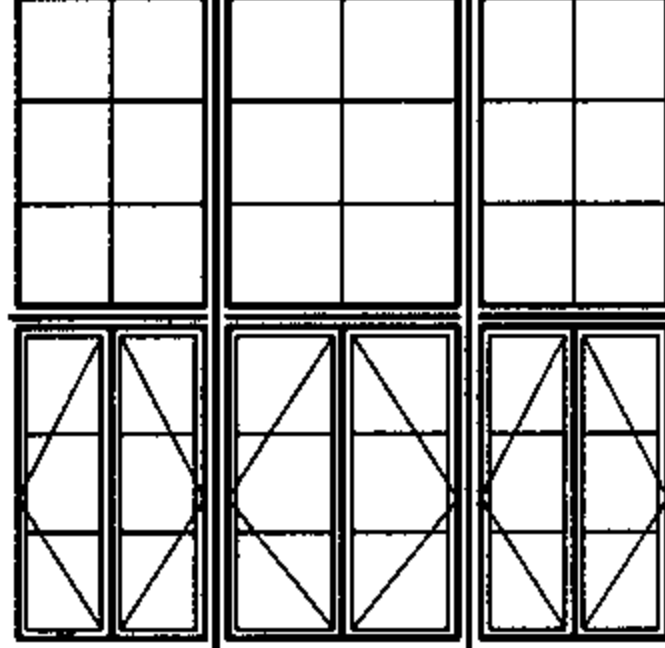
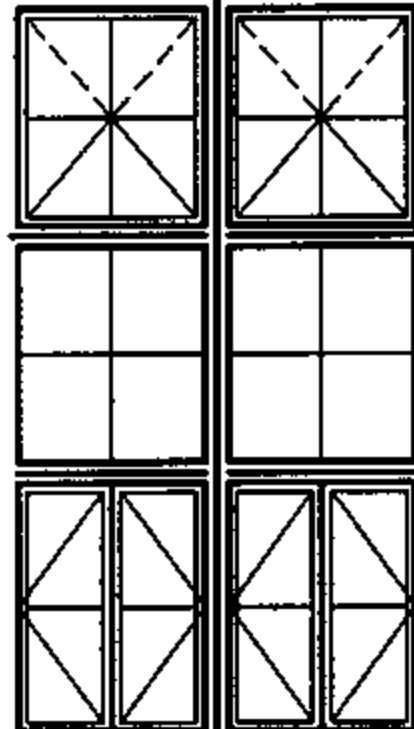
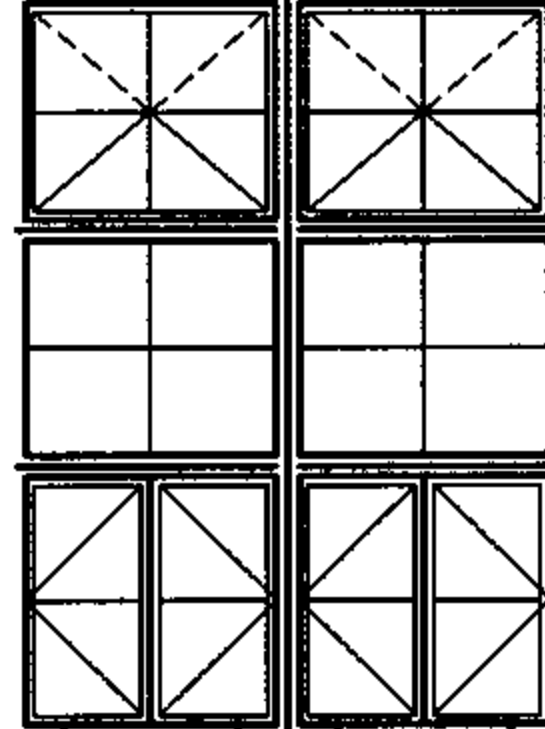
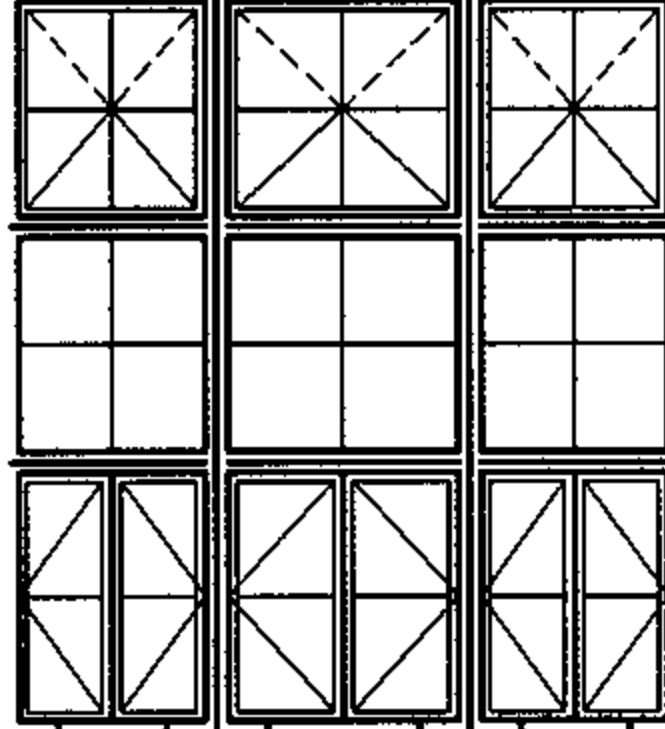
设计

孙钢男

设计

页

31

洞口		1800	2100	2400	2700	3000
3000	18	25174926 8733873  HC331	25204926 102331023  HC332	25234926 117331173  HC333	14267115 8732687326873  HC334	14297115 87326117326873  HC335
		1819 1464351464  HC336	1819 1464351464  HC337	1819 1464351464  HC338	1819 1464351464  HC339	1819 1464351464  HC340
		1819 1464351464  HC341	1819 1464351464  HC342	1819 1464351464  HC343	1819 1464351464  HC344	1819 1464351464  HC345
		2119 117331173  HC346		2119 117331173  HC347		2119 117331173  HC348
		3600				

HC组合窗(十一)						图集号	04J602-1
审核	郭景	设计	孙钢男	校对	李力	页	32

洞口

3600

4200

4500

4800

3000

3600

HC组合窗(十二)

图集号

04J602-1

审核	郭景		校对	李力		设计	孙钢男	
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33

洞口		1800	2400	3000	3600		
3600		25 1749 26 873 3 873 20 3539 35 1752 41 HC387	25 2349 26 1173 3 1173 HC388	14 2971 15 873 26 1173 26 873 HC389	14 3571 15 1173 26 1173 26 1173 HC390	14 3571 15 1173 26 1173 26 1173 HC391	
		HC392	HC393	HC394	HC395	HC396	
		HC397	HC398	HC399	HC400	HC401	
	HC组合窗(十三)					图集号	04J602-1
	审核 郭景 设计 孙钢男					页	34

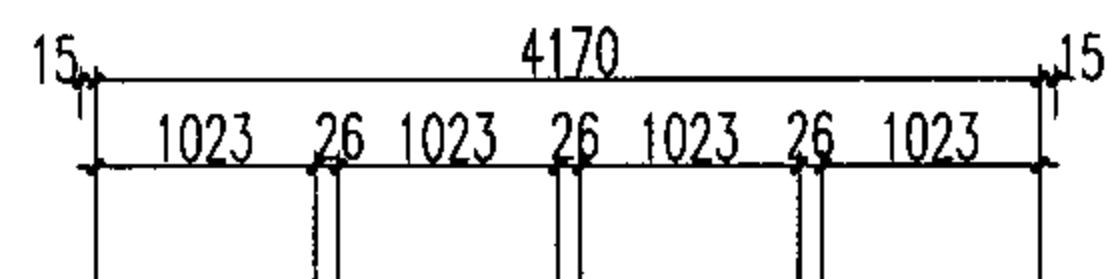
HC388

洞口

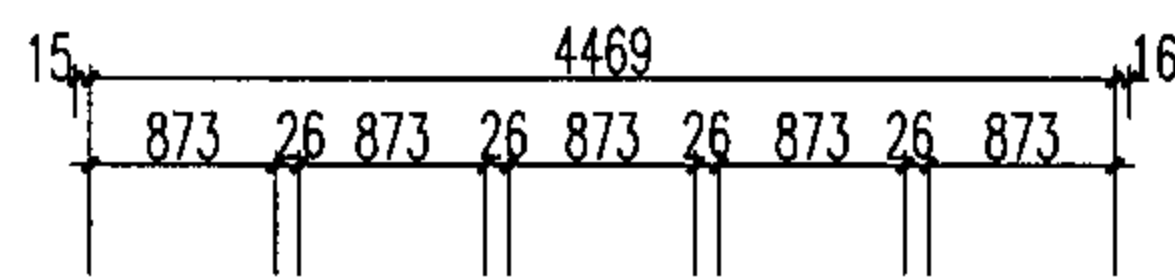
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4500

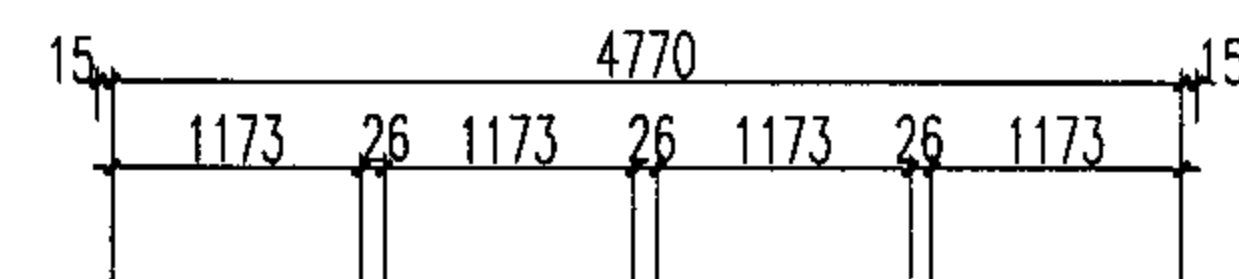
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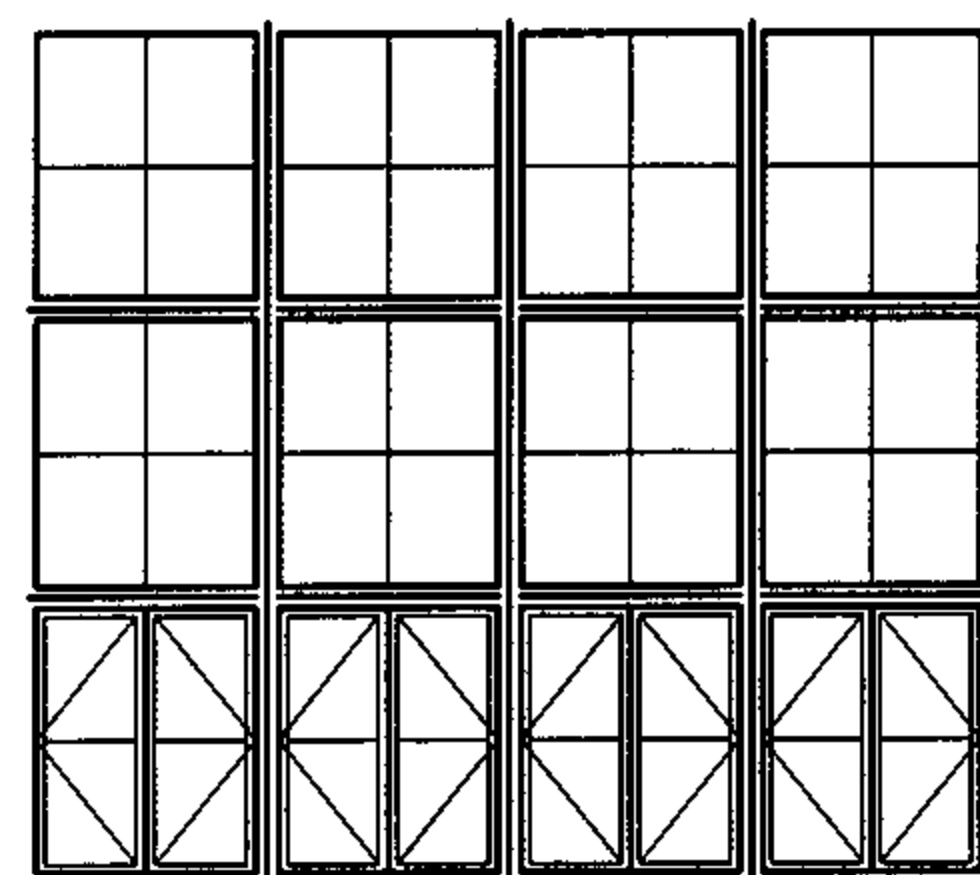
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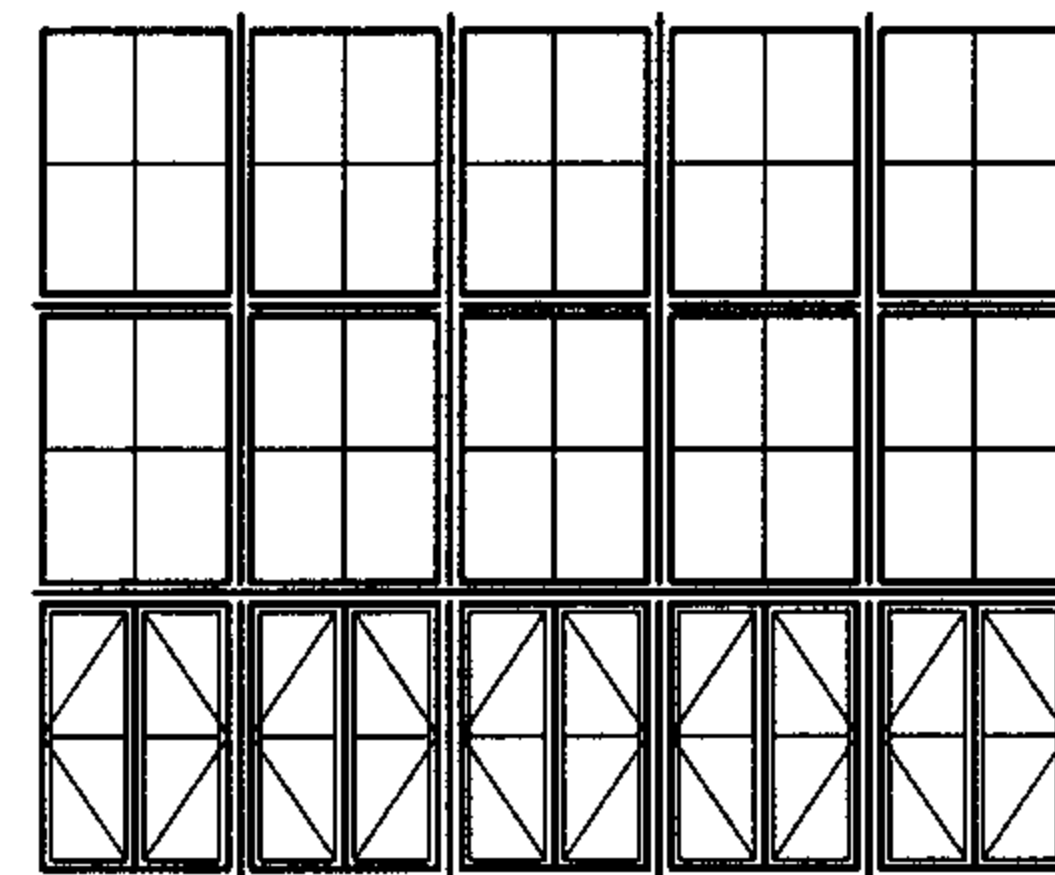
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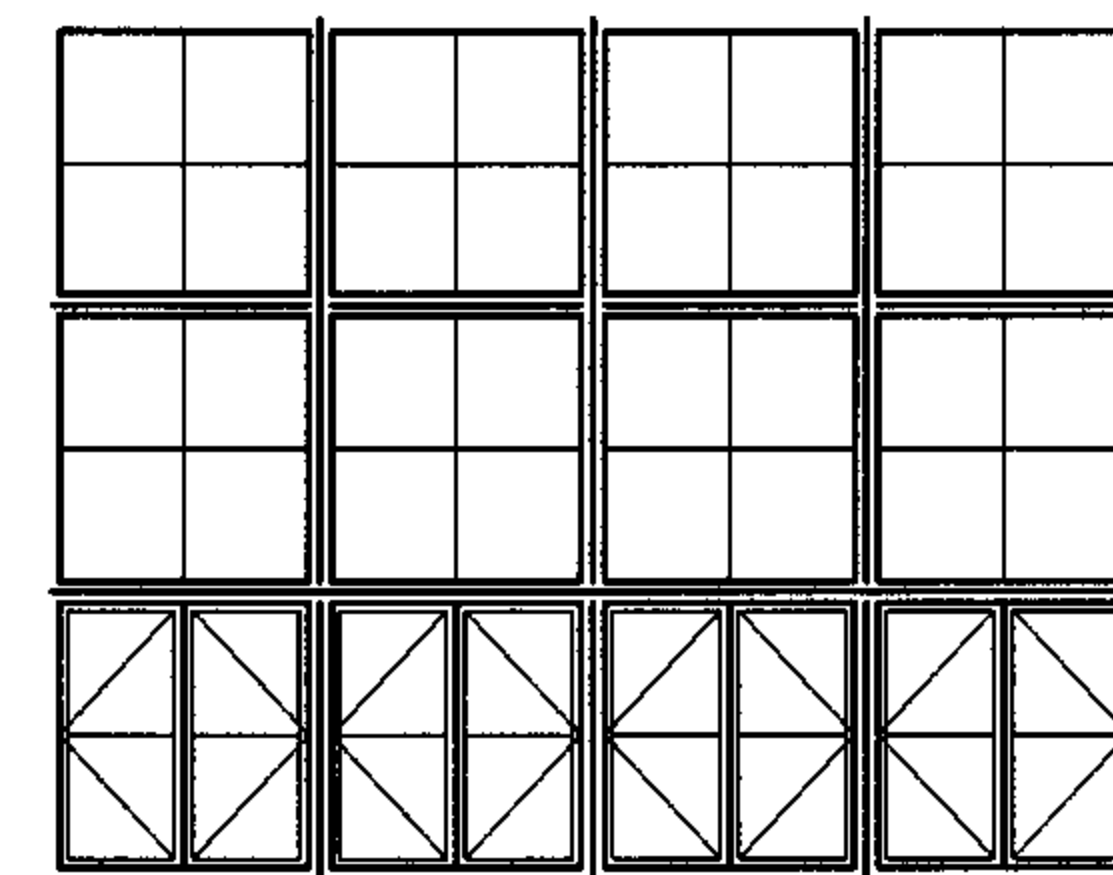
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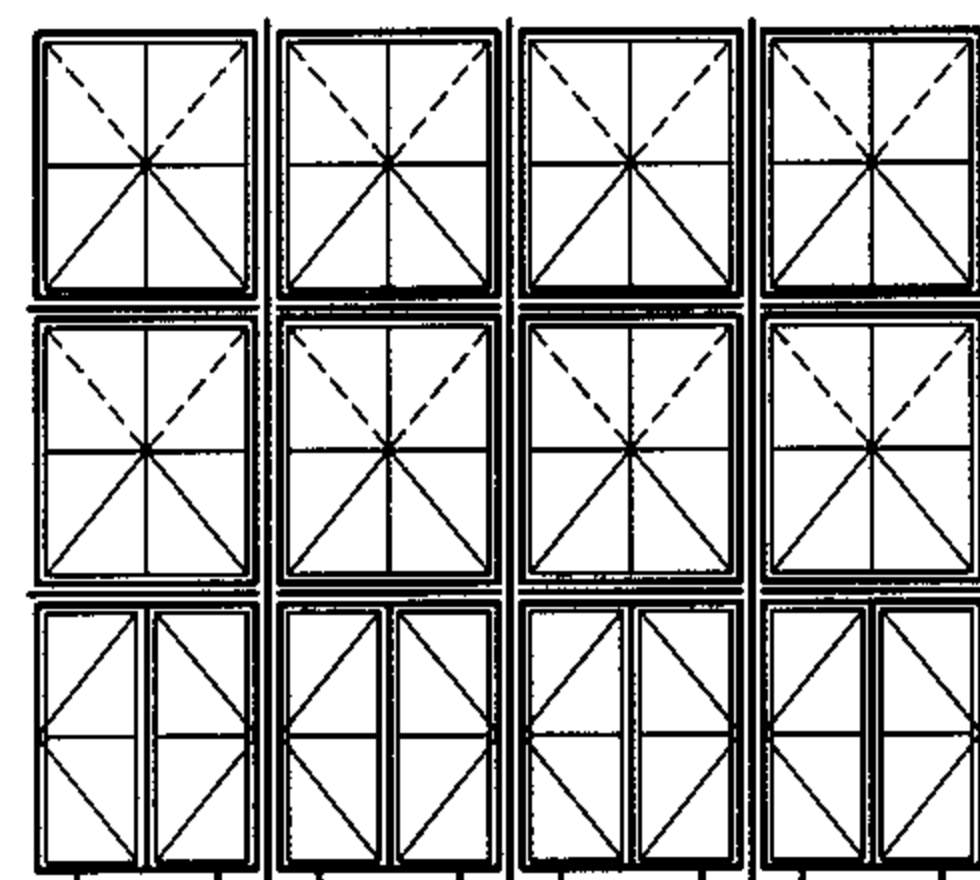
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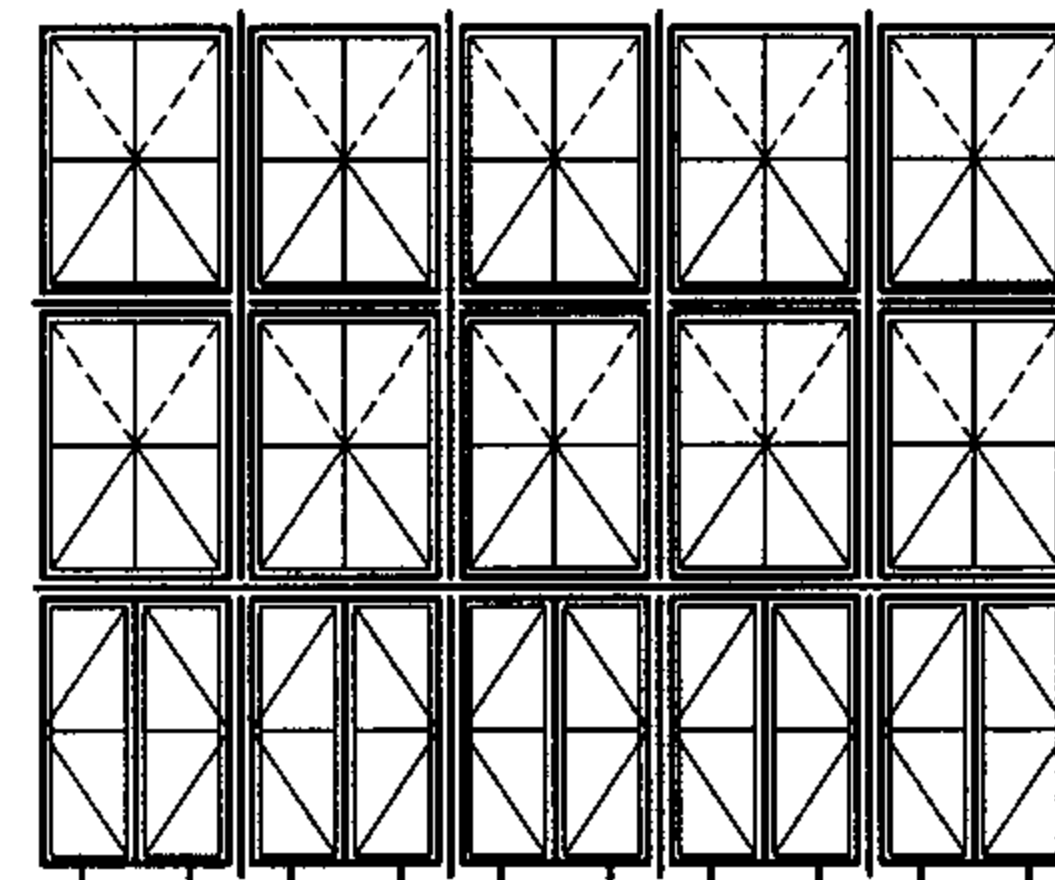
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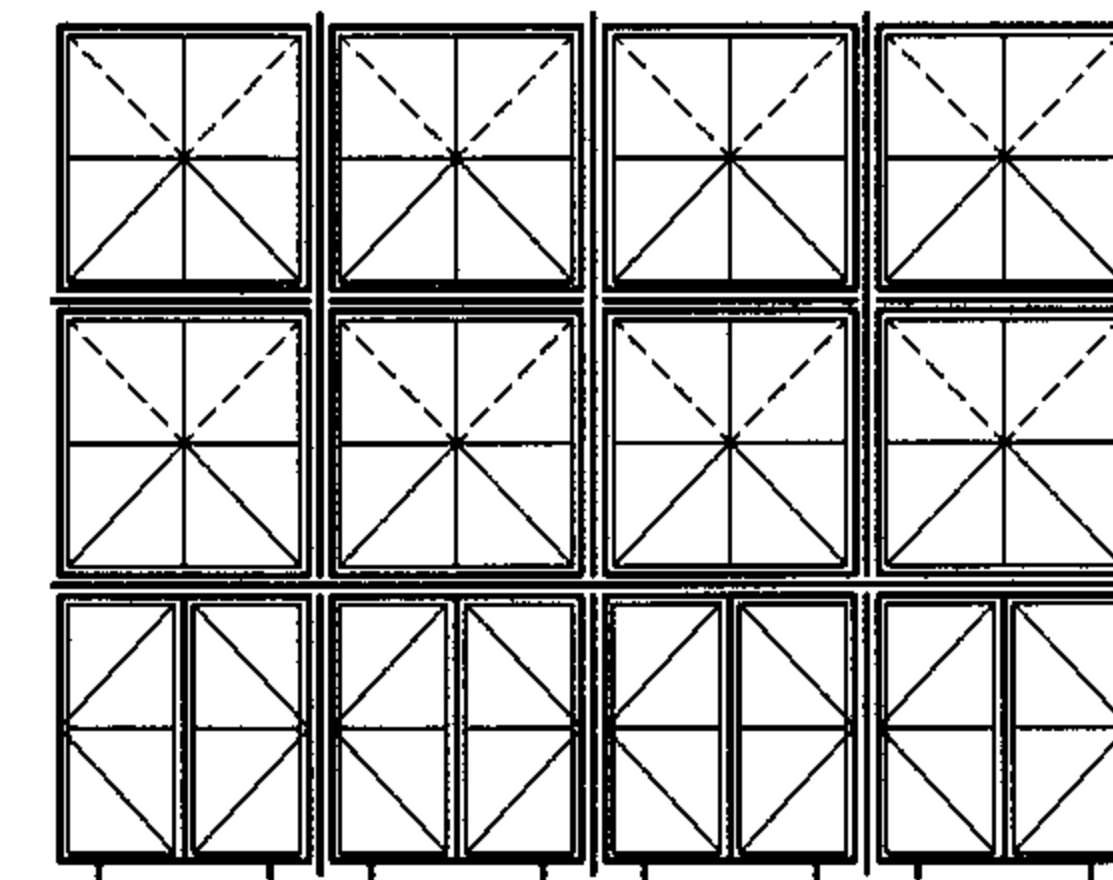
HC407



HC408



HC409

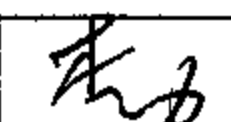
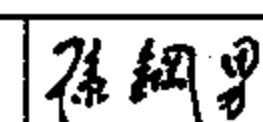


HC410

HC组合窗(十四)

图集号

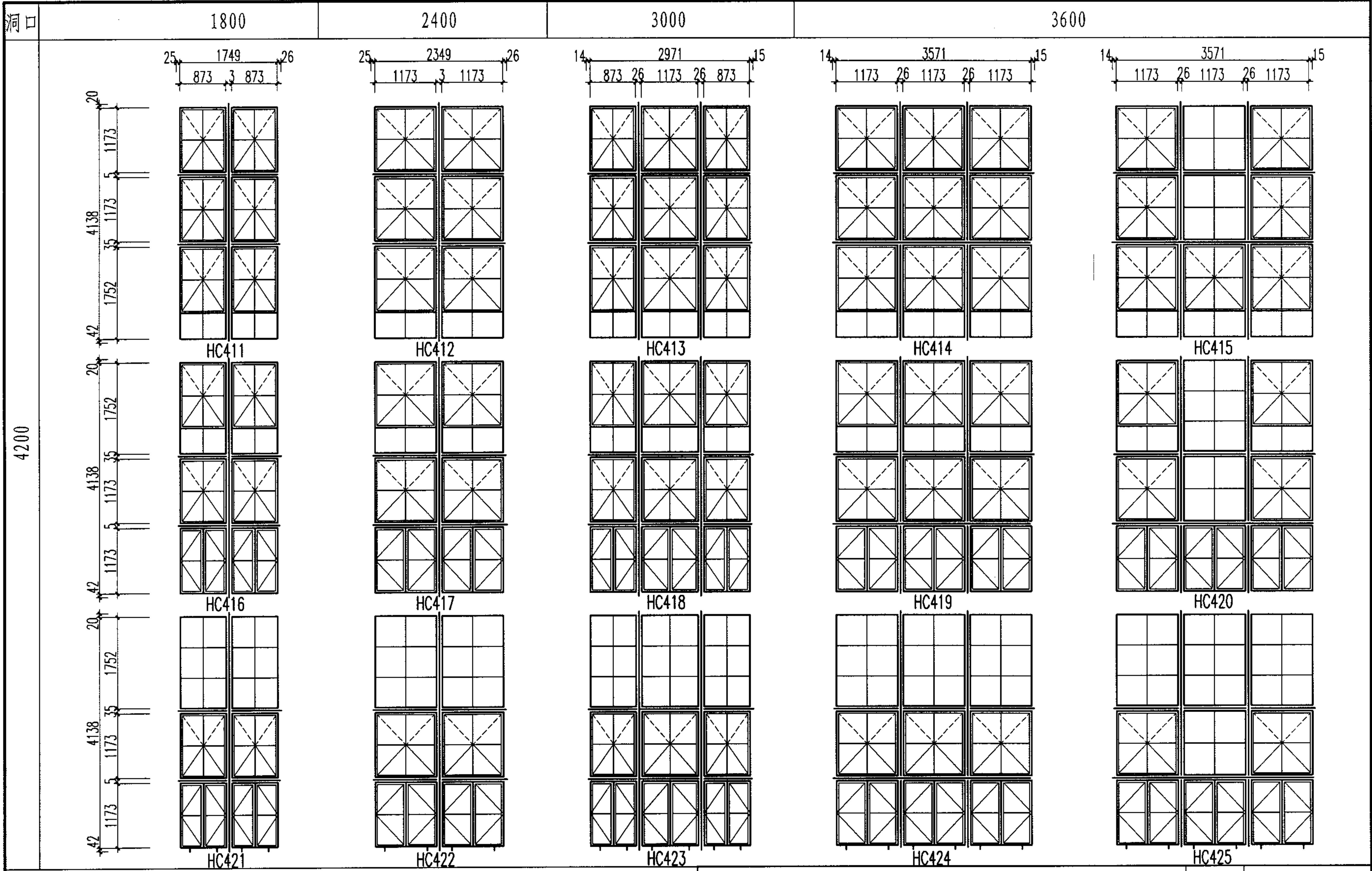
04J602-1

 审核 郭景  校对 李力  设计 孙钢男 

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35

3600



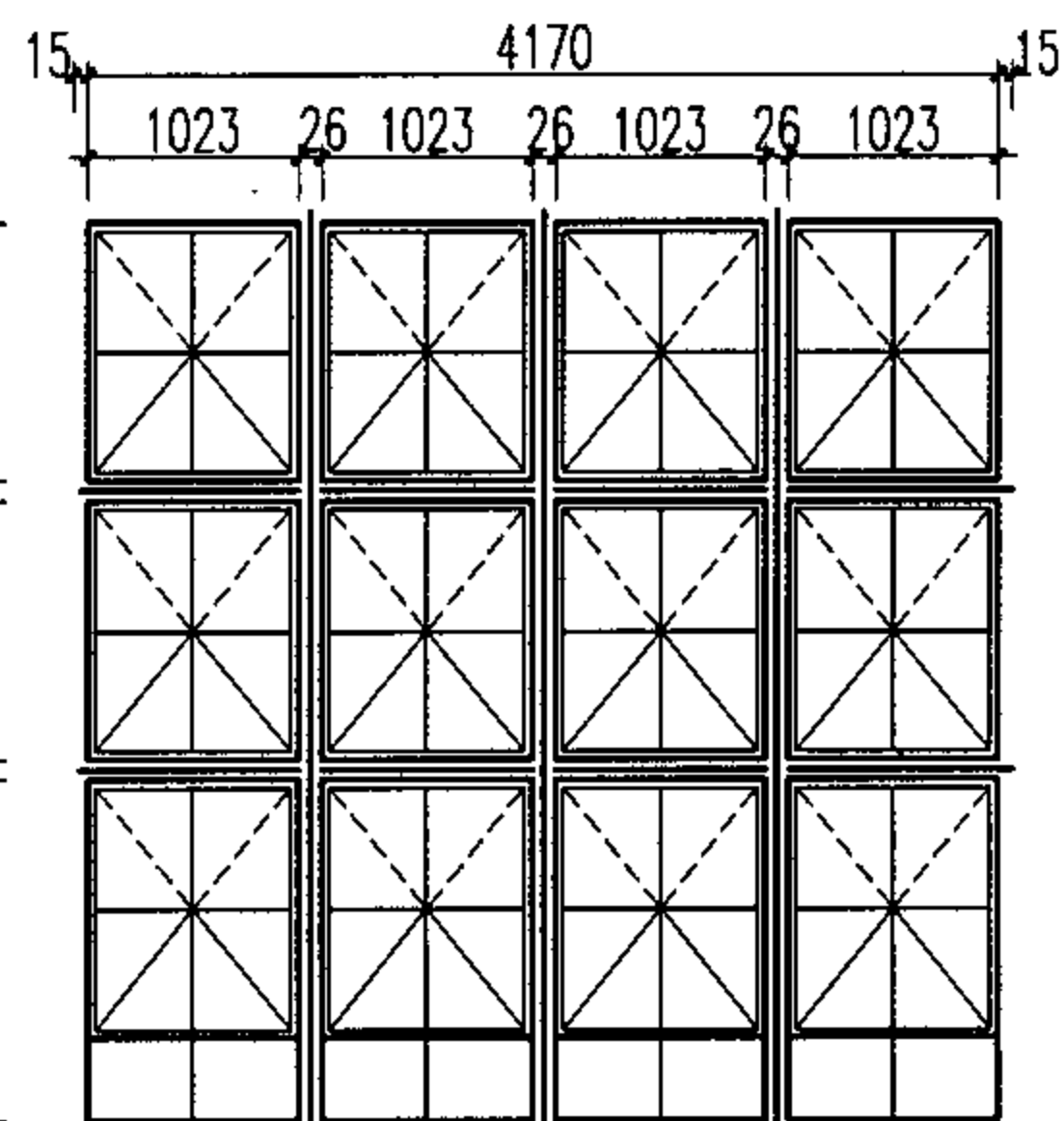
HC组合窗(十五)

图集号 04J602-1

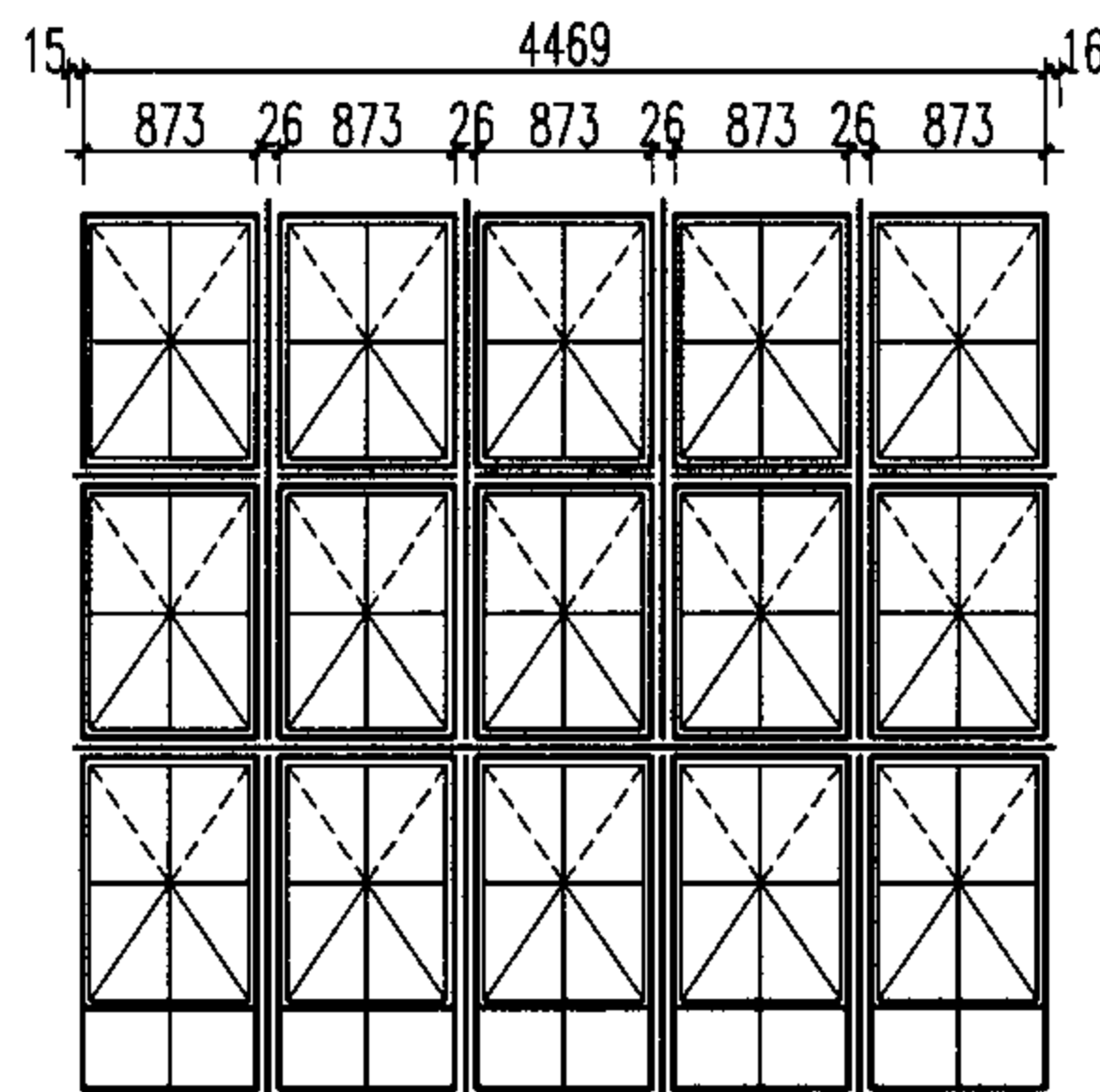
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4500

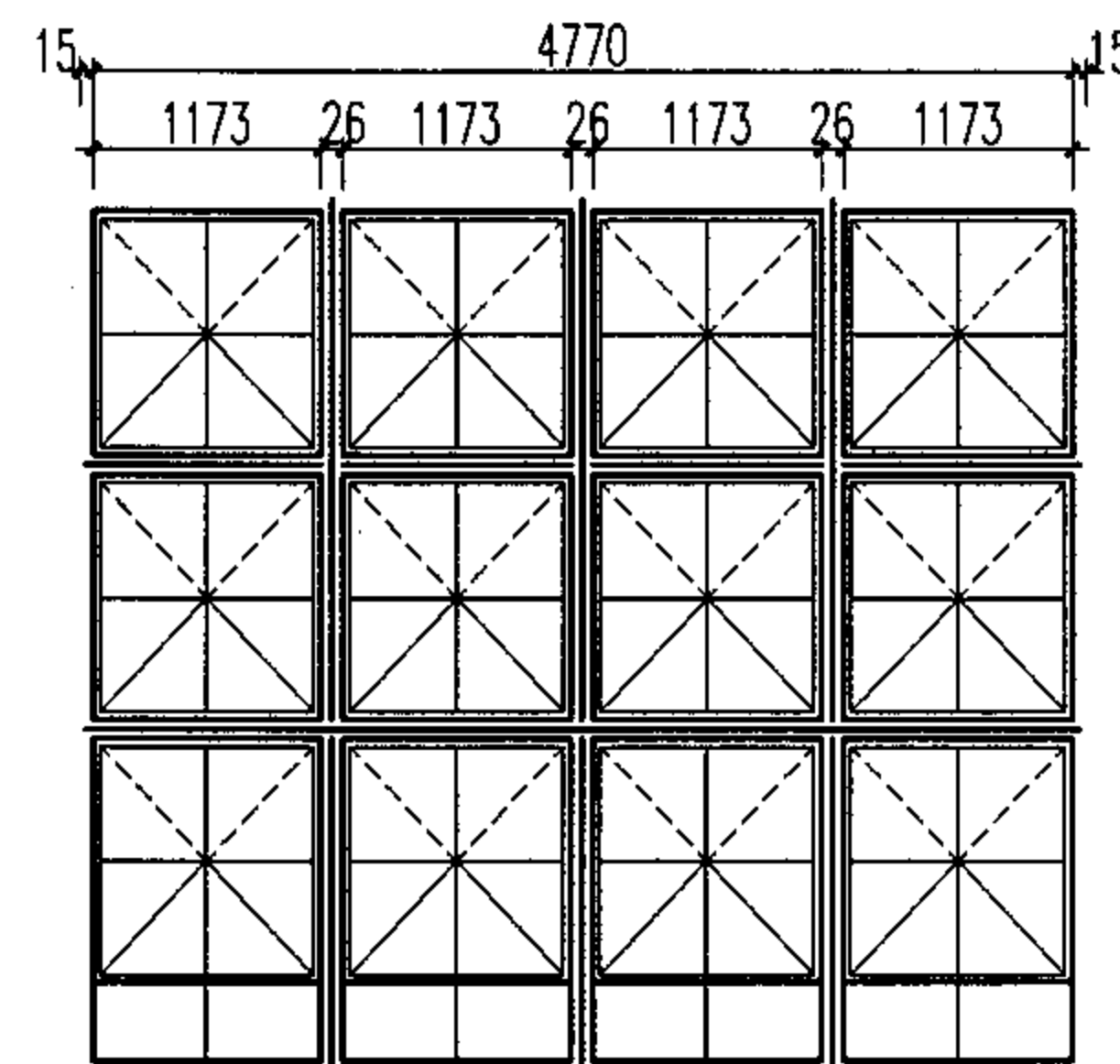
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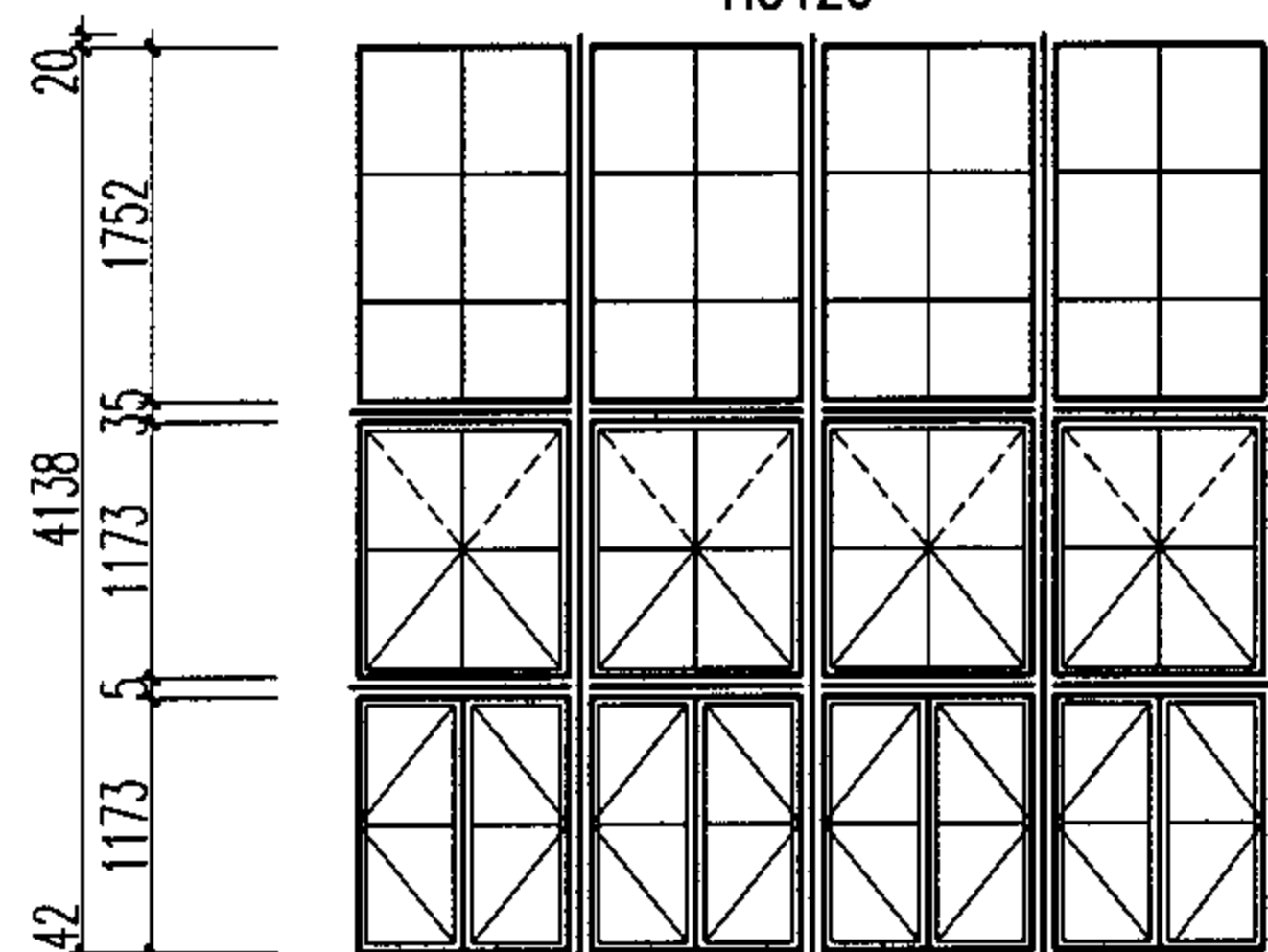
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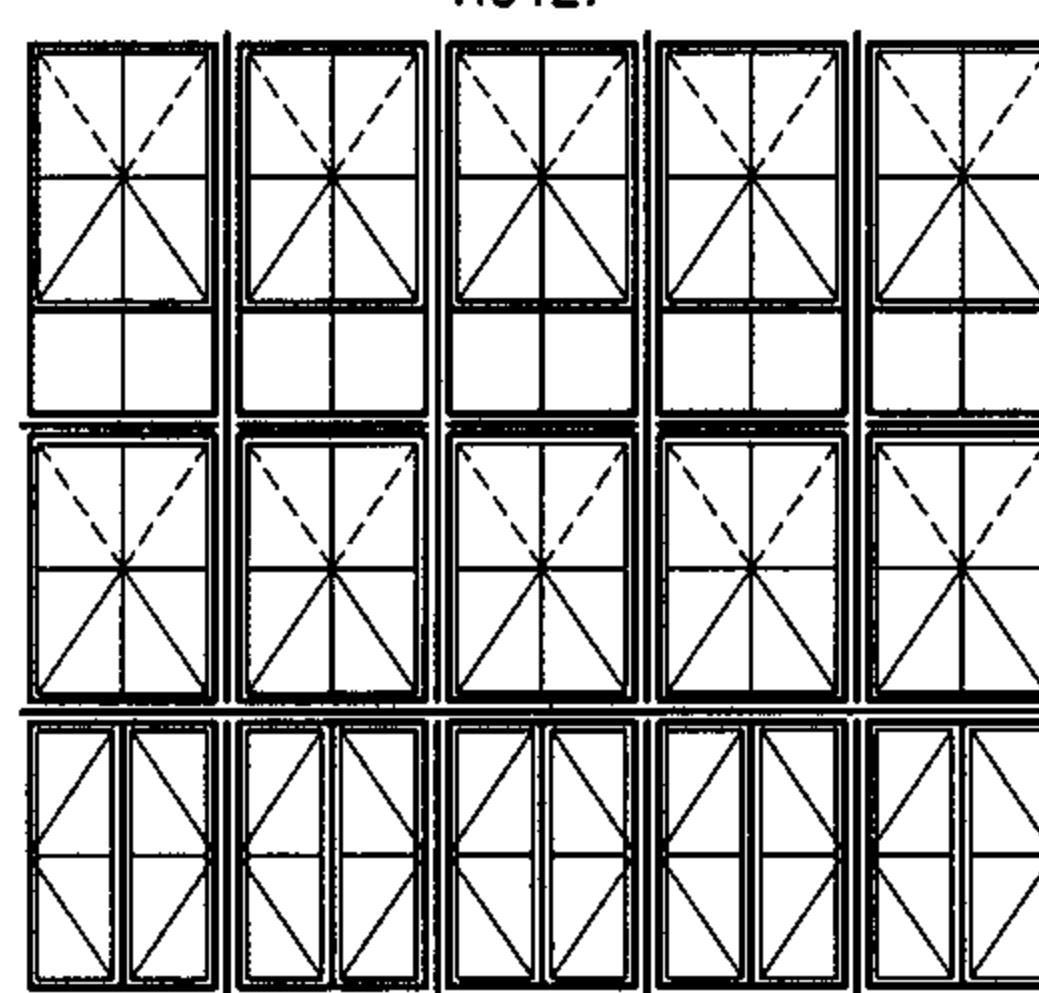
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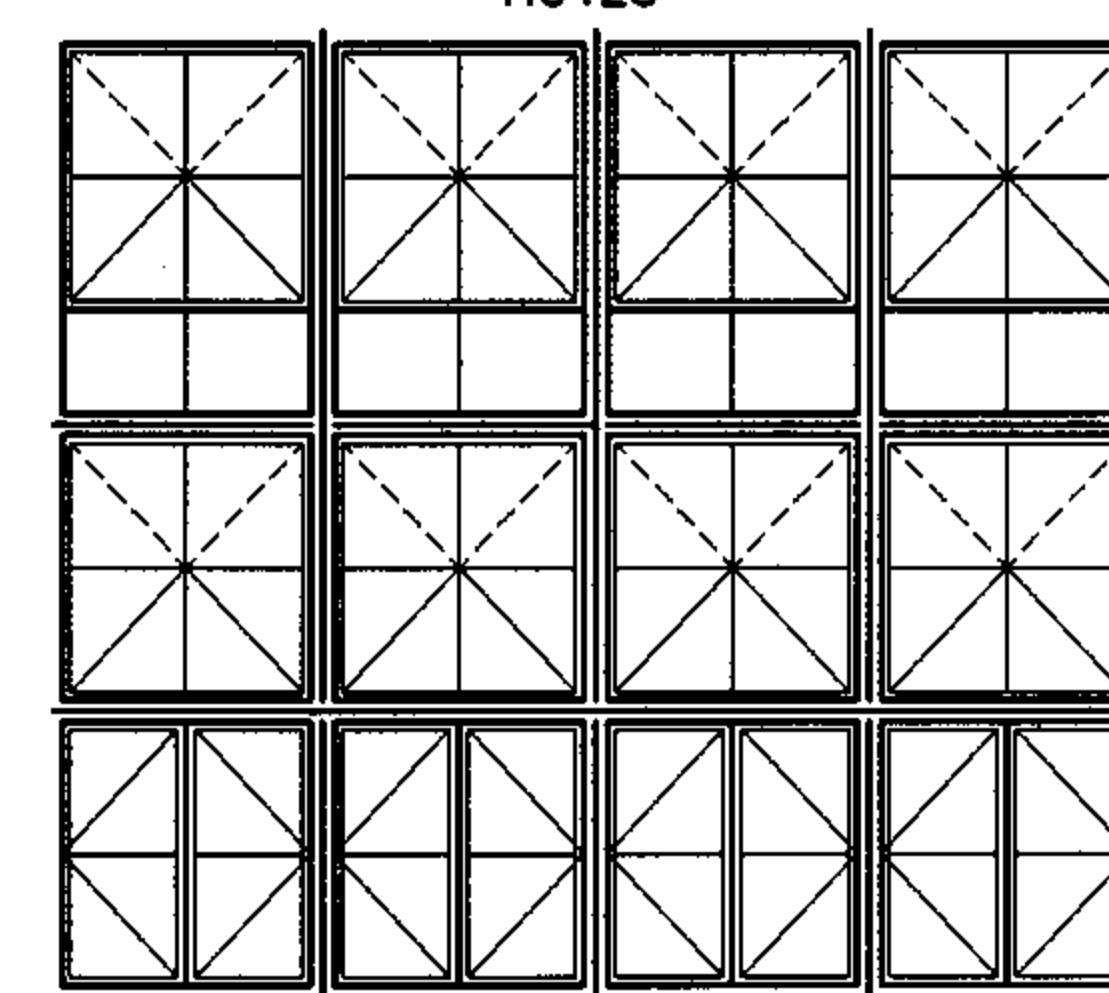
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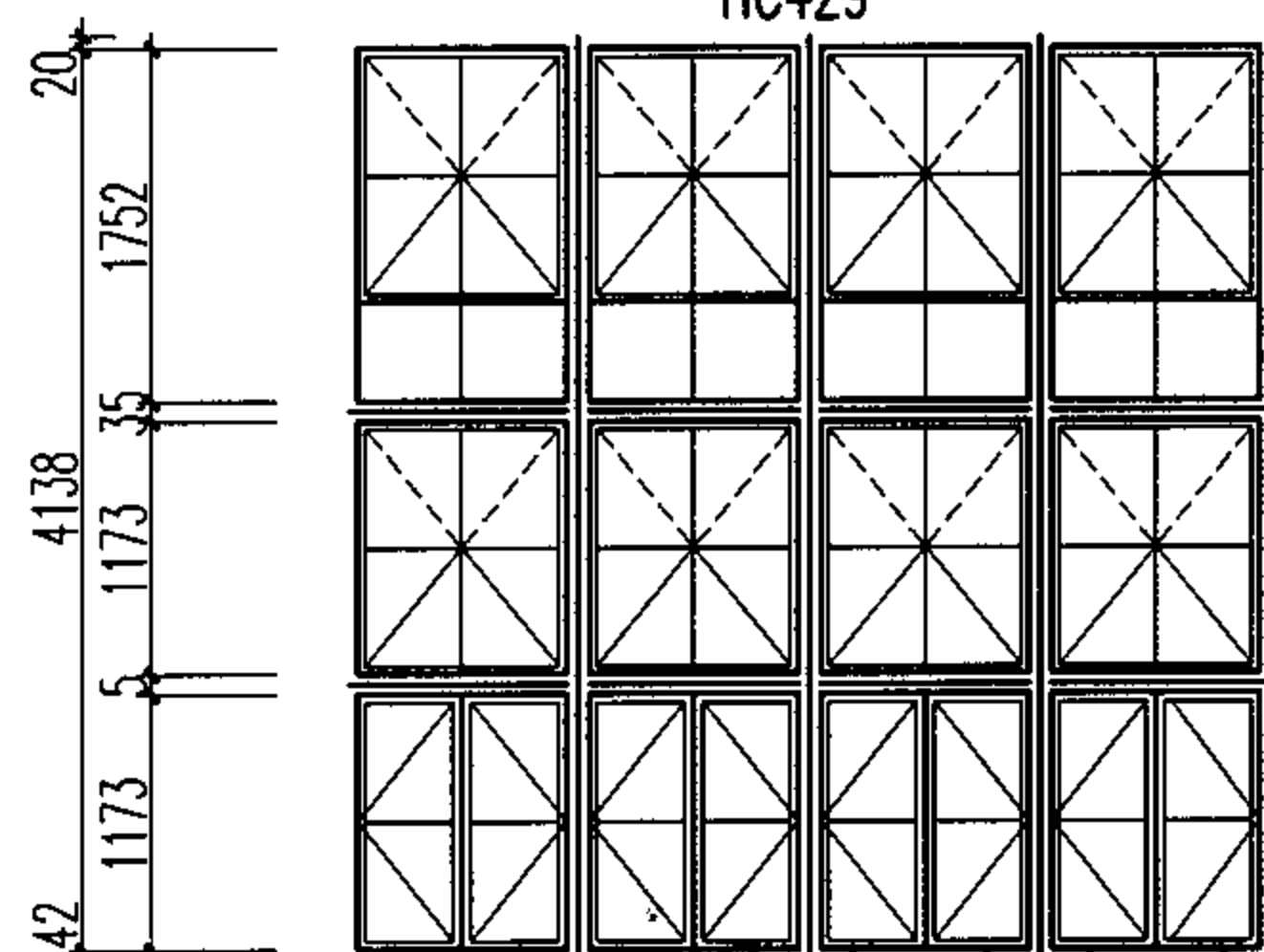
HC429



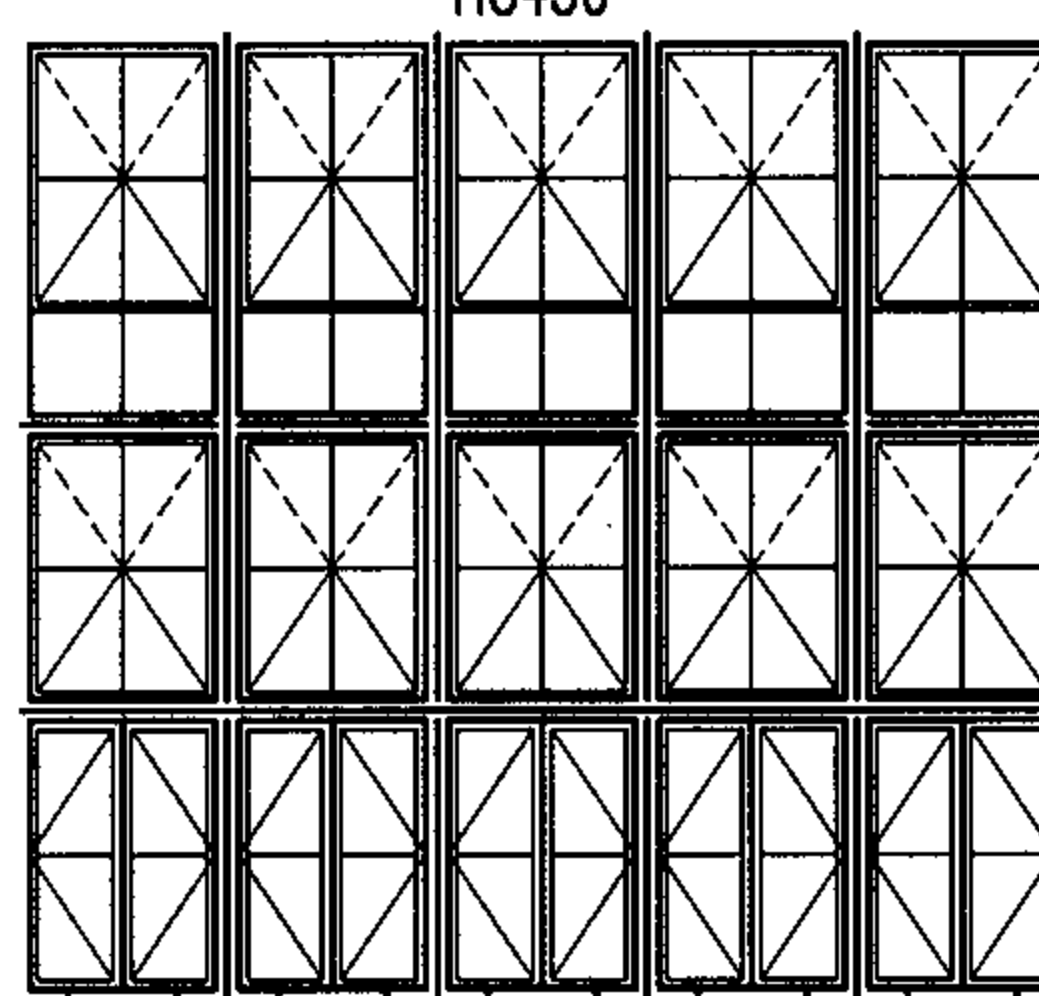
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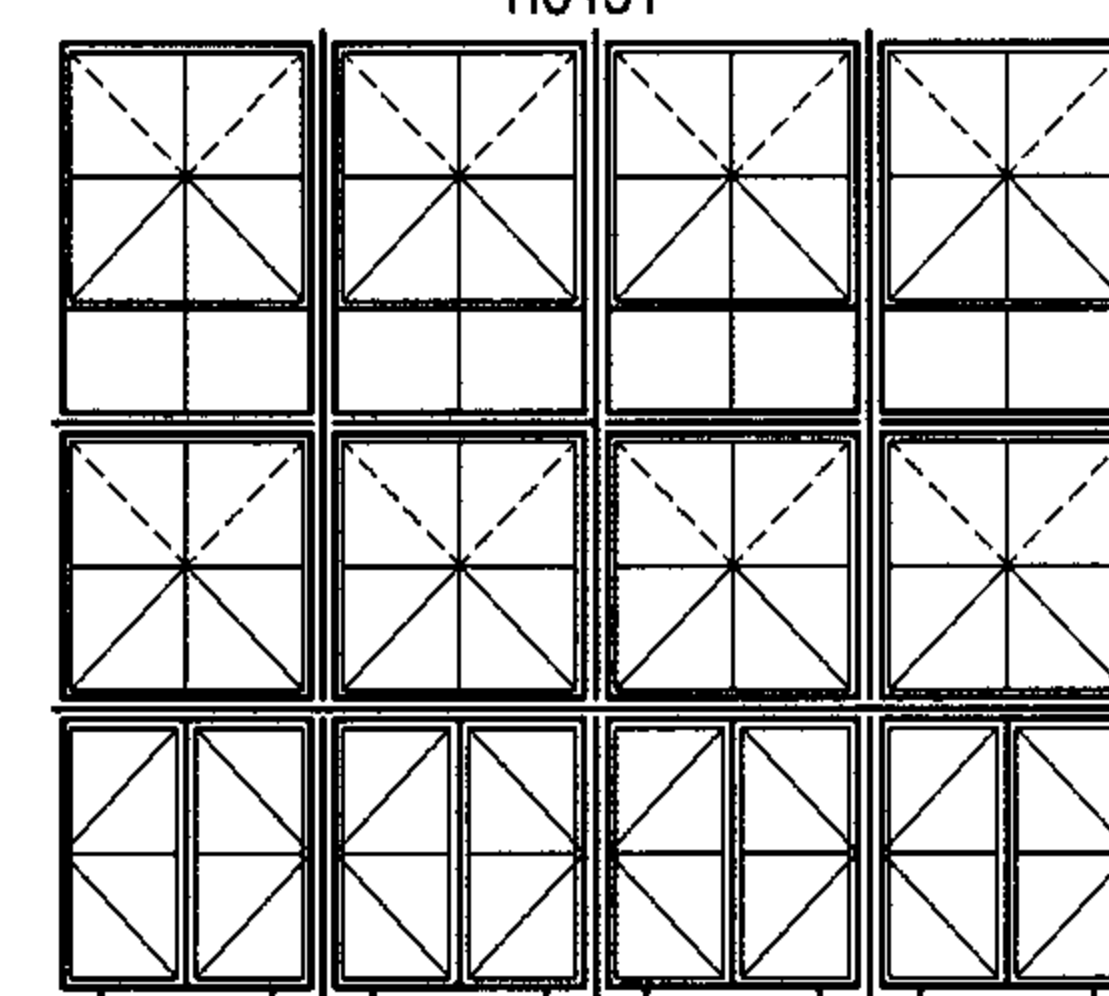
HC431



HC432



HC433

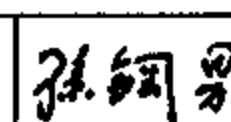


HC434

HC组合窗(十六)

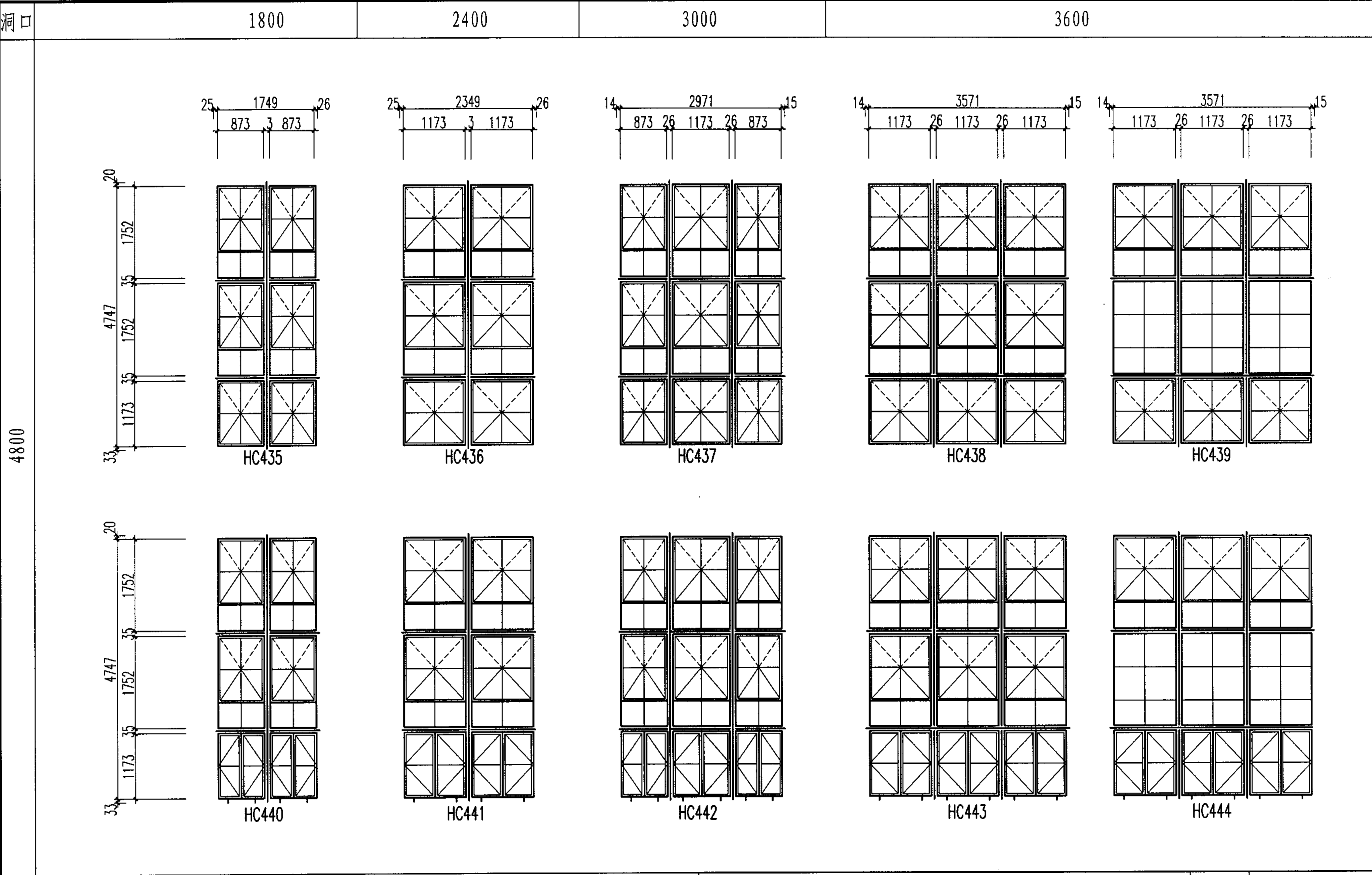
图集号

04J602-1

 审核 郭景  校对 李力  设计 孙钢男 

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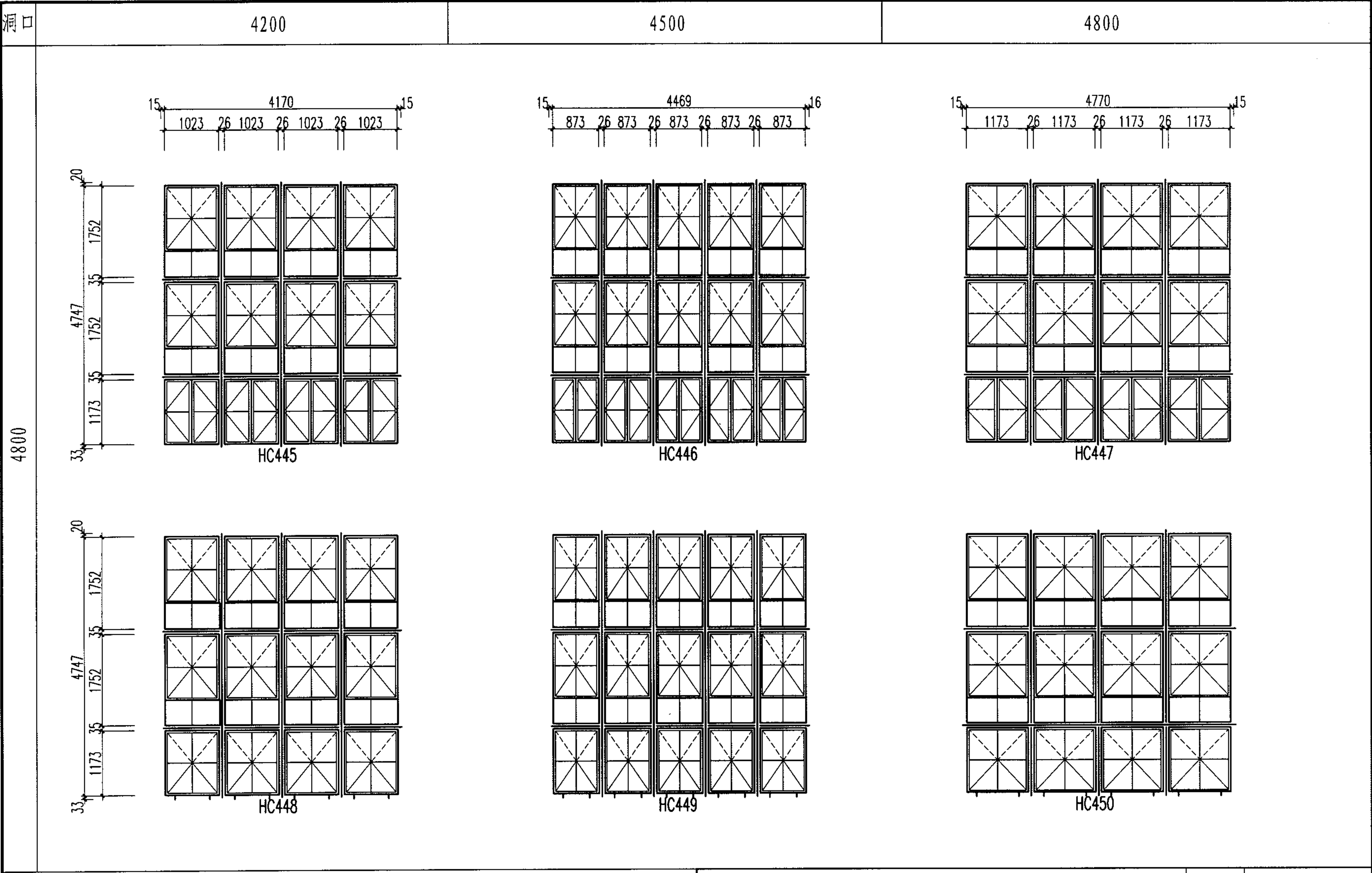


HC组合窗(十七)

图集号 04J602-1

审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

页 38



HC组合窗(十八)

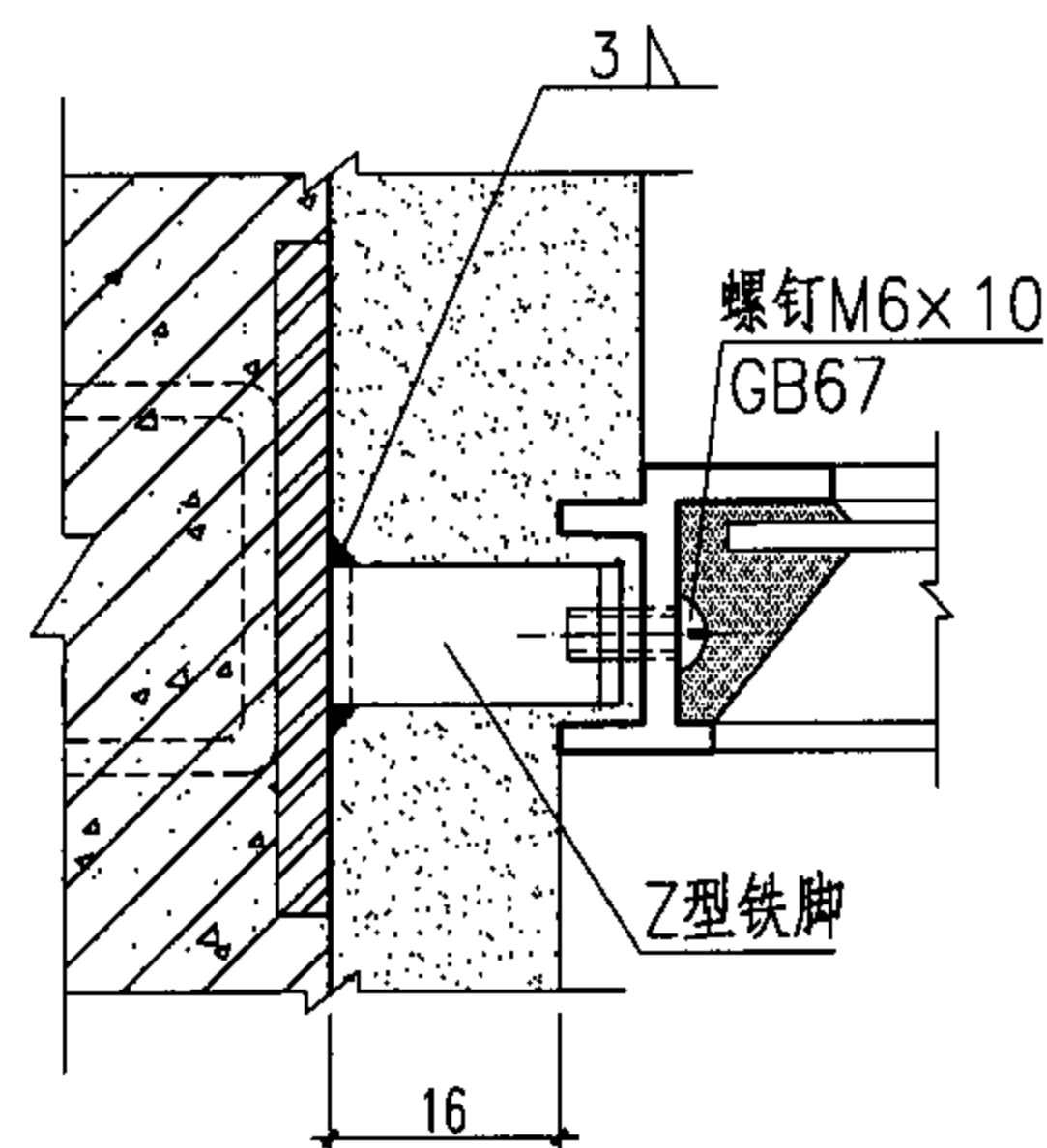
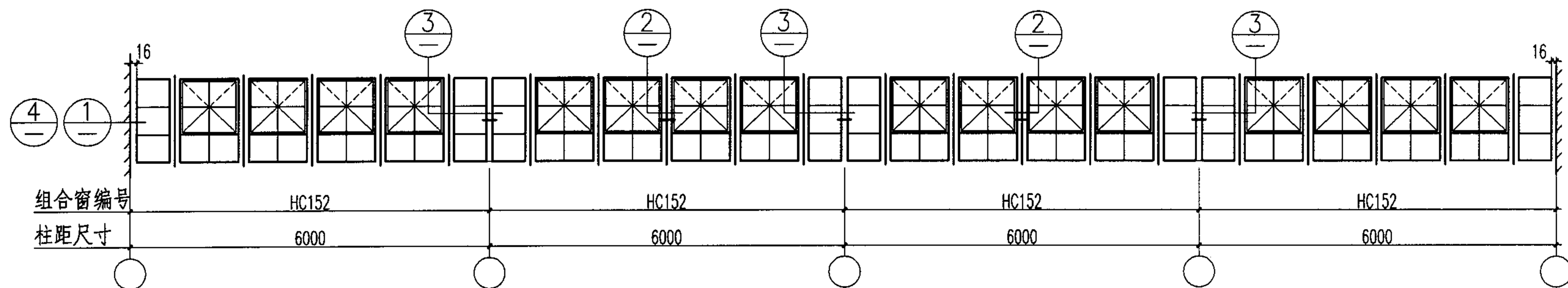
图集号

04J602-1

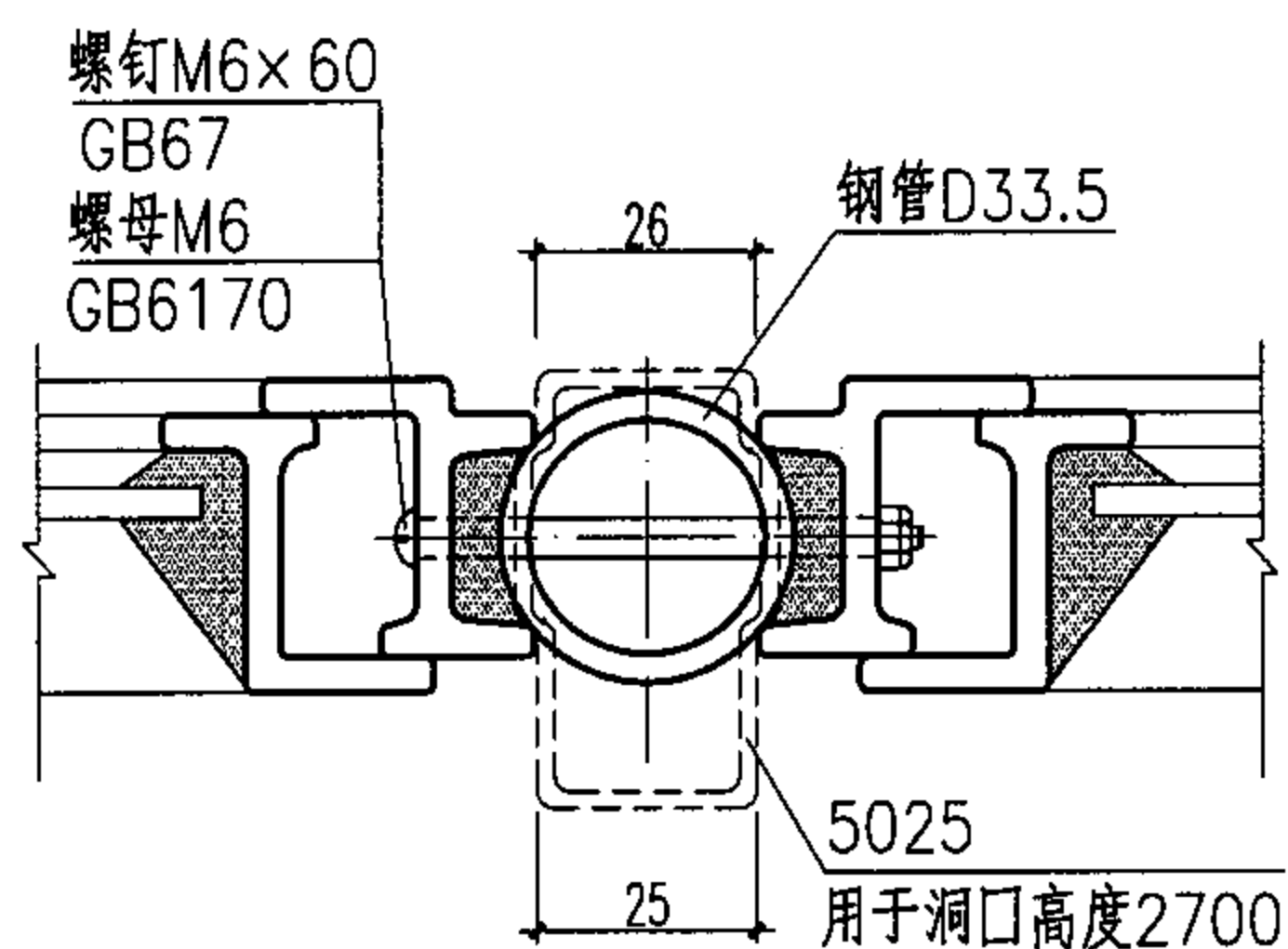
审核 孙钢男 孙钢男 校对 李力 李力 设计 刘坤 刘坤

页

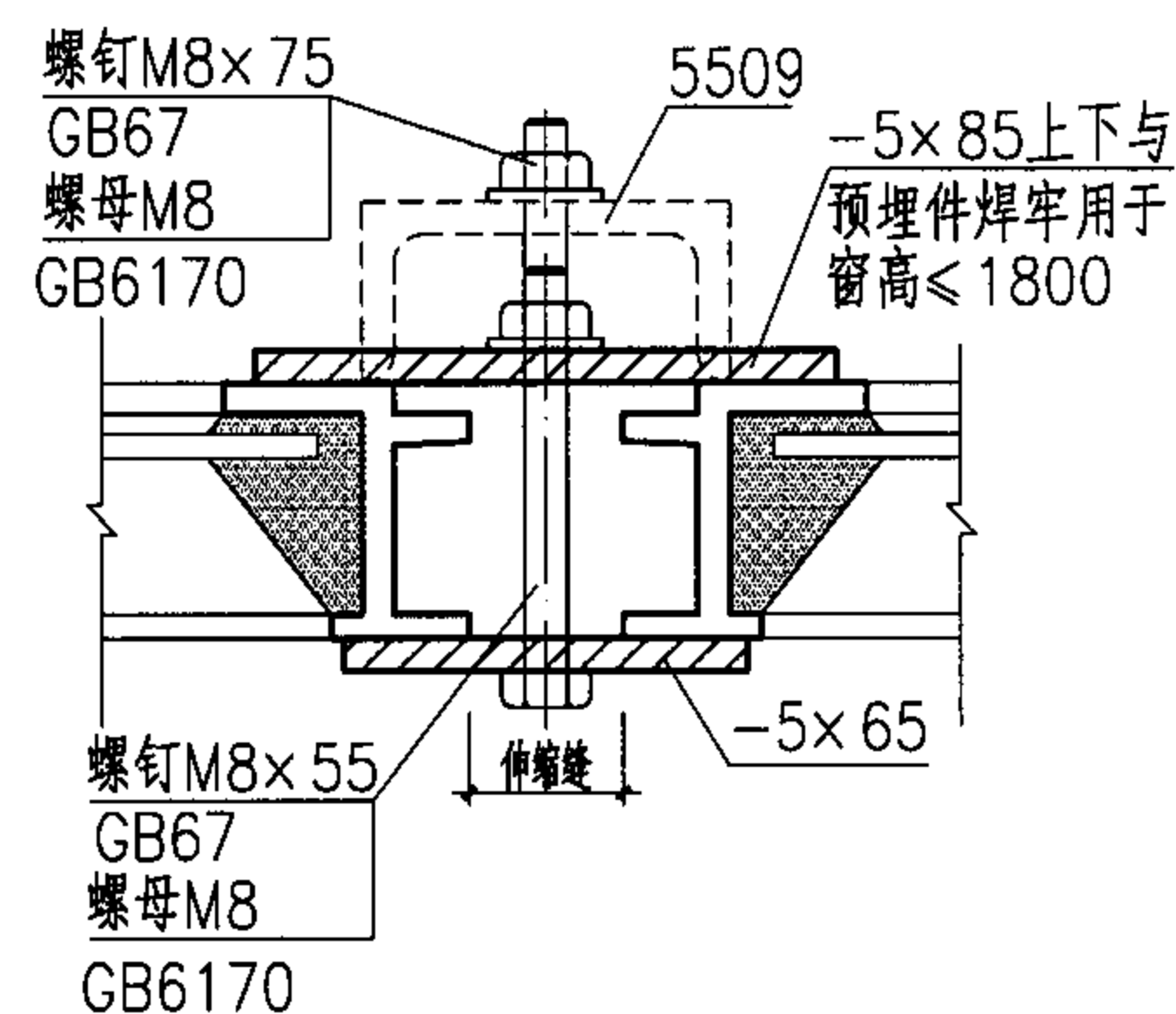
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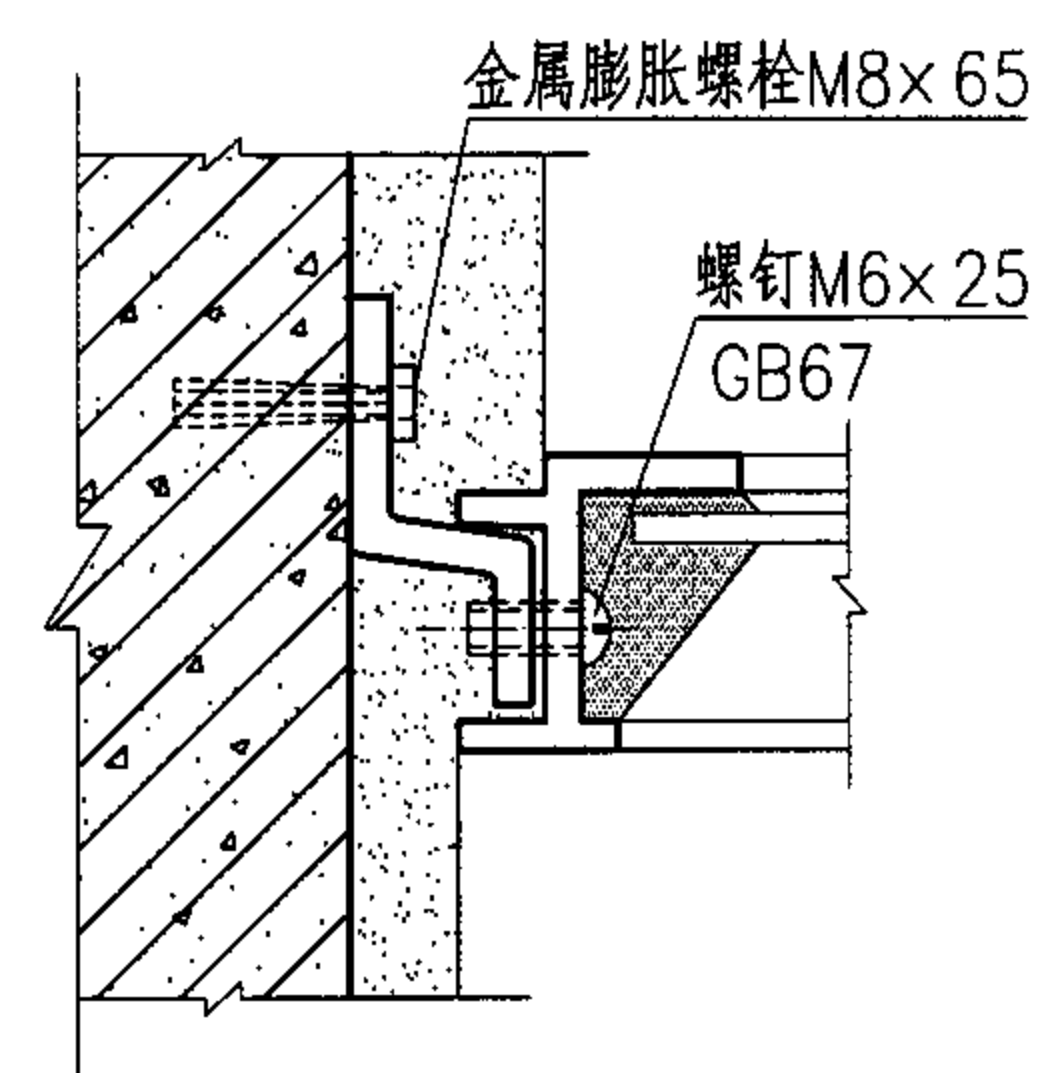
1



2



3



4

带形窗组合示意图

图集号

04J602-1

审核 郭景 邵 校对 李力 设计 孙钢男 陈钢男

页

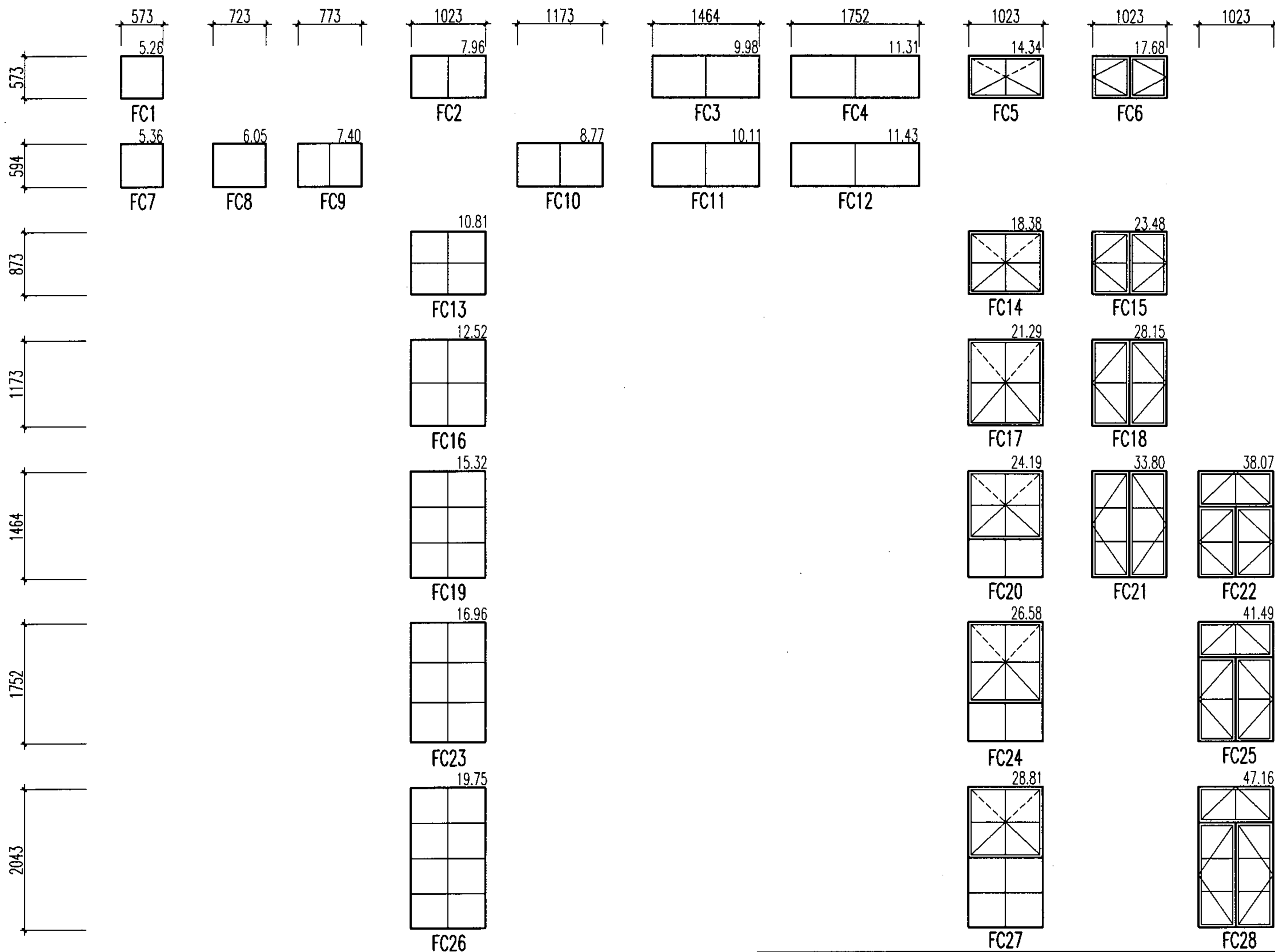
40

固 定 窗

中悬窗

平开窗

平开门



说明:

1. 本页钢门窗不做单独选用, 仅供制作厂配制组合窗用。
2. 配套用门窗加工要求及铁脚位置与本图集配套基本门窗相同。

FC、FM配套用门窗立面

图集号

04J602-1

审核	郭景		校对	李力		设计	孙钢男	
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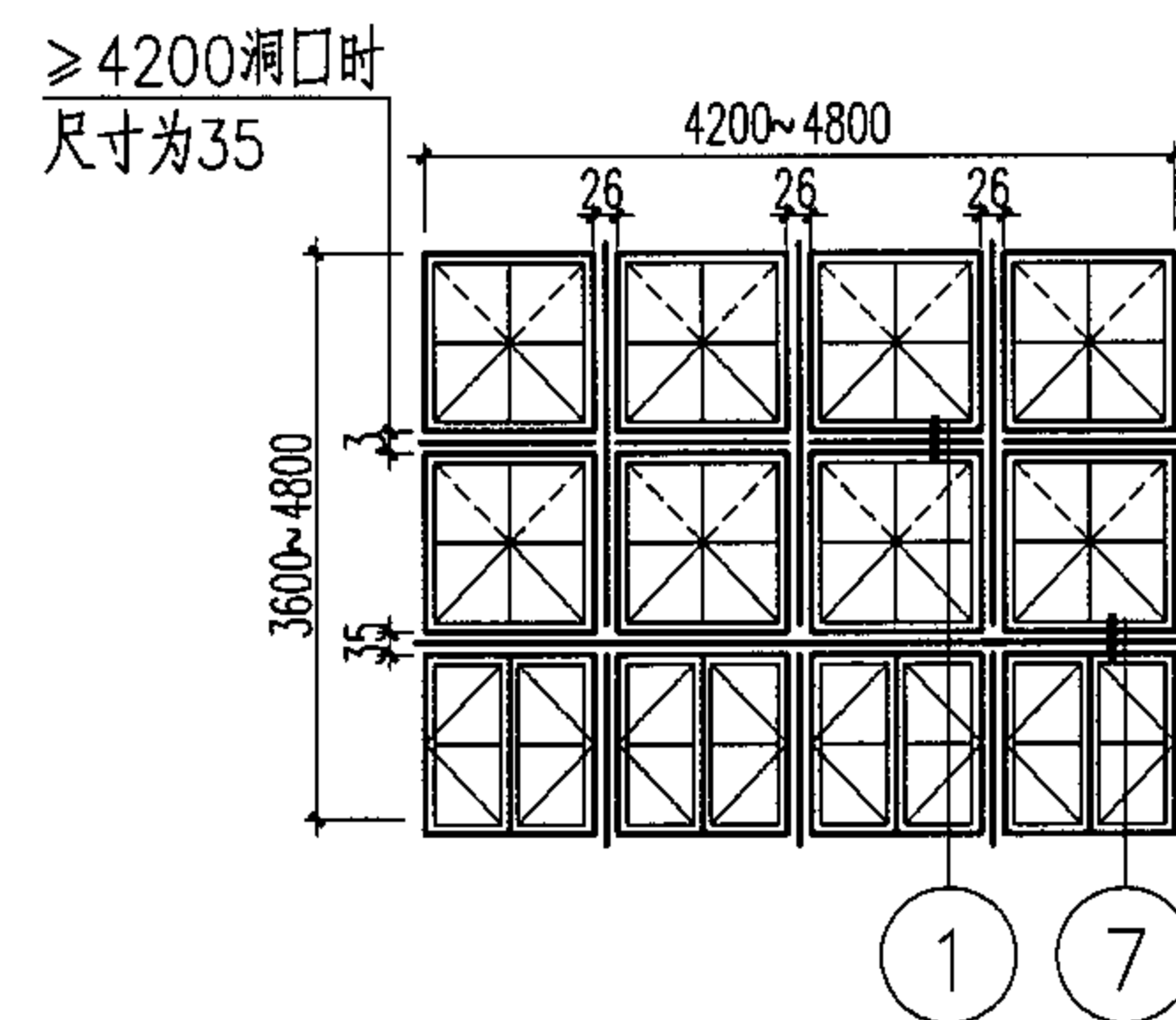
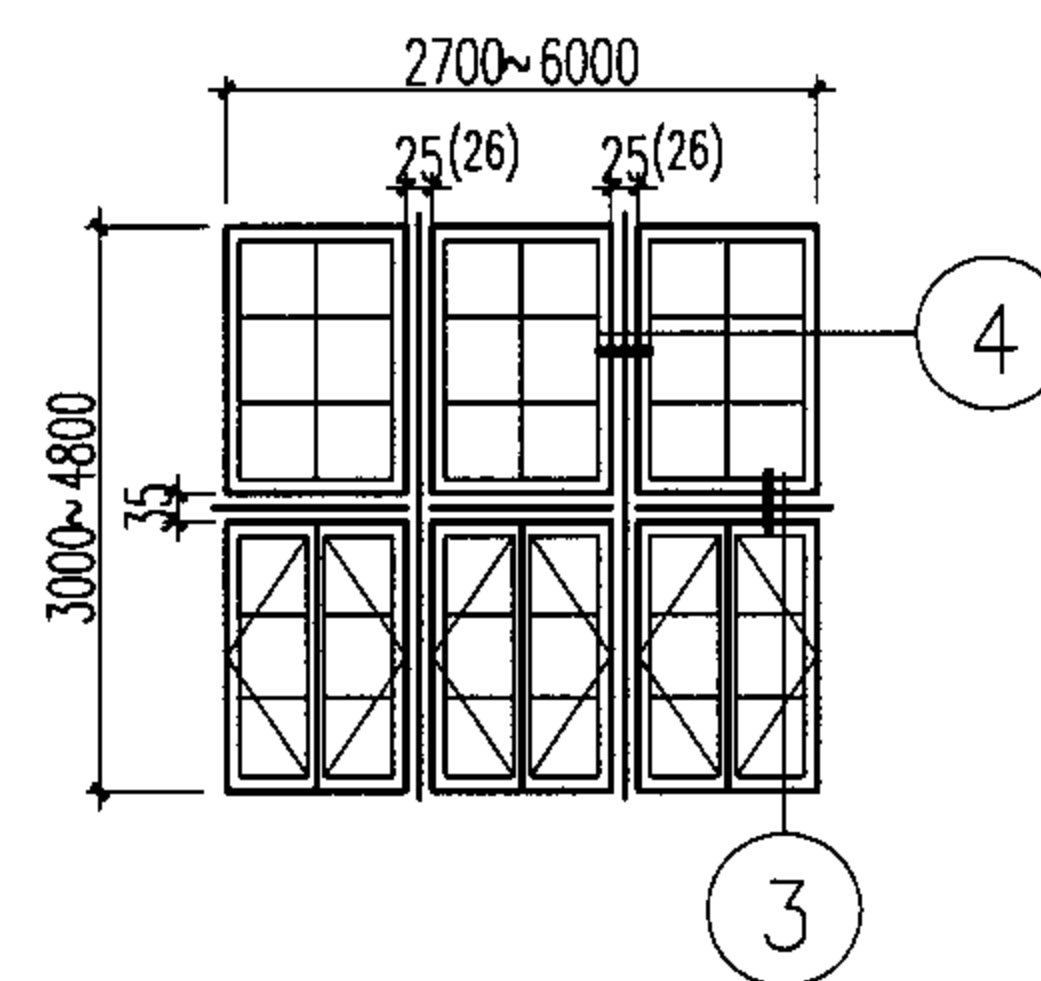
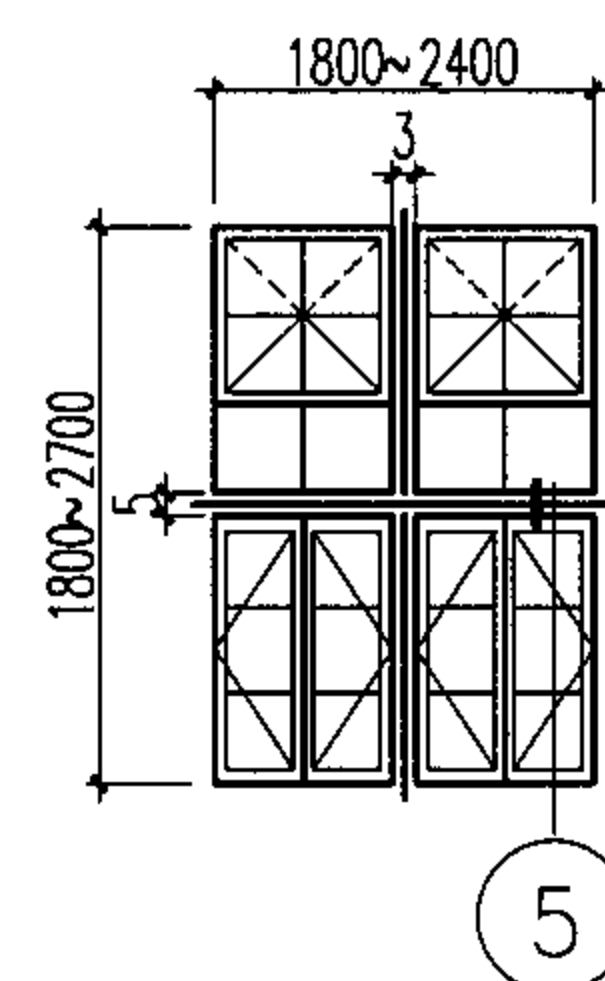
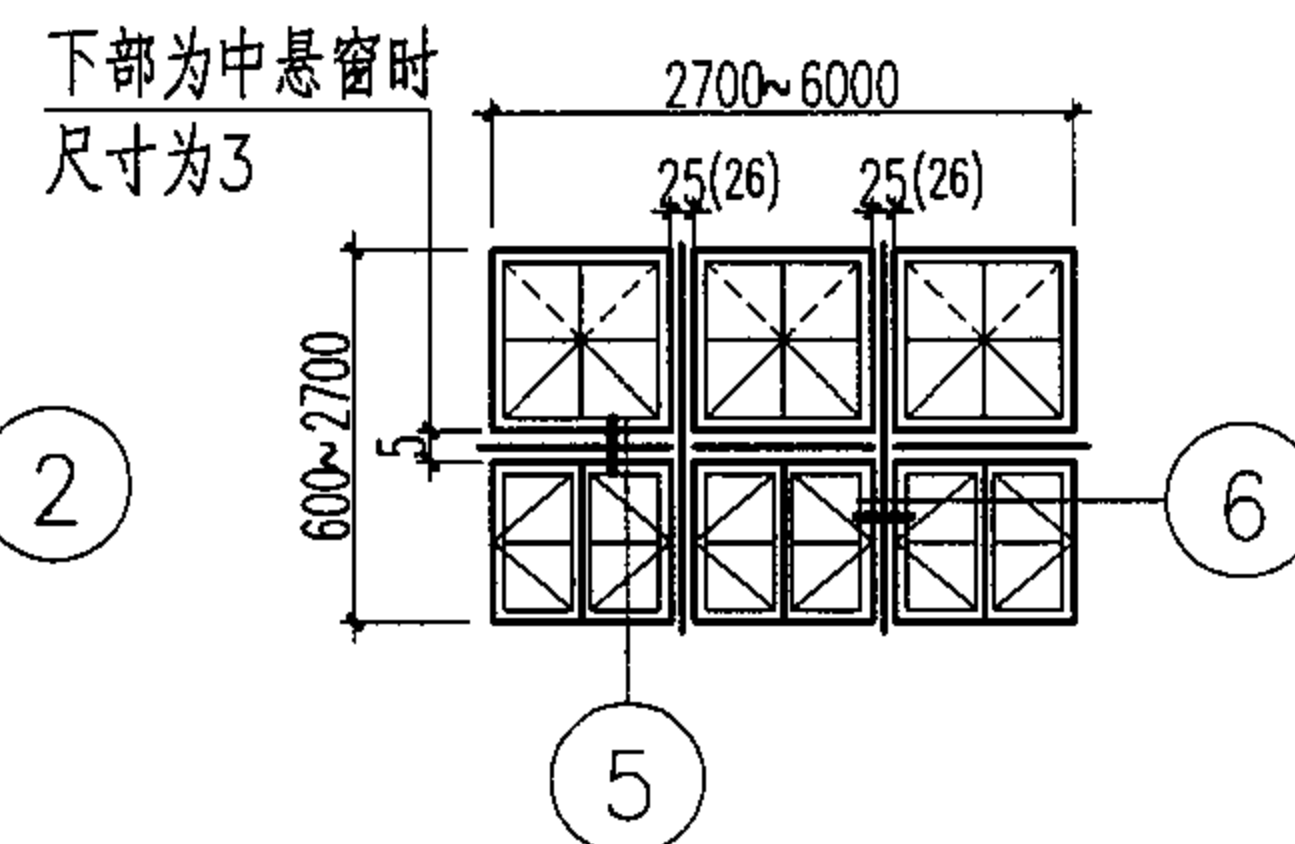
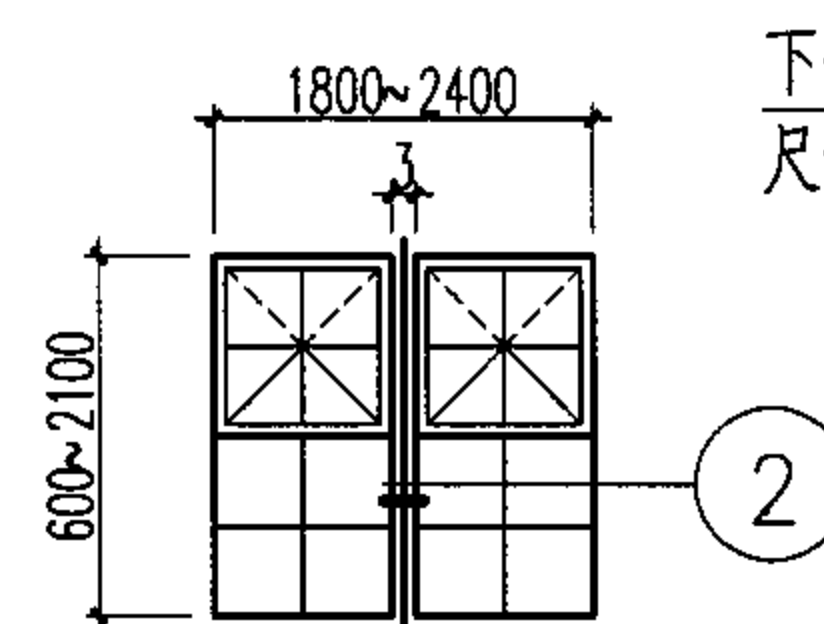
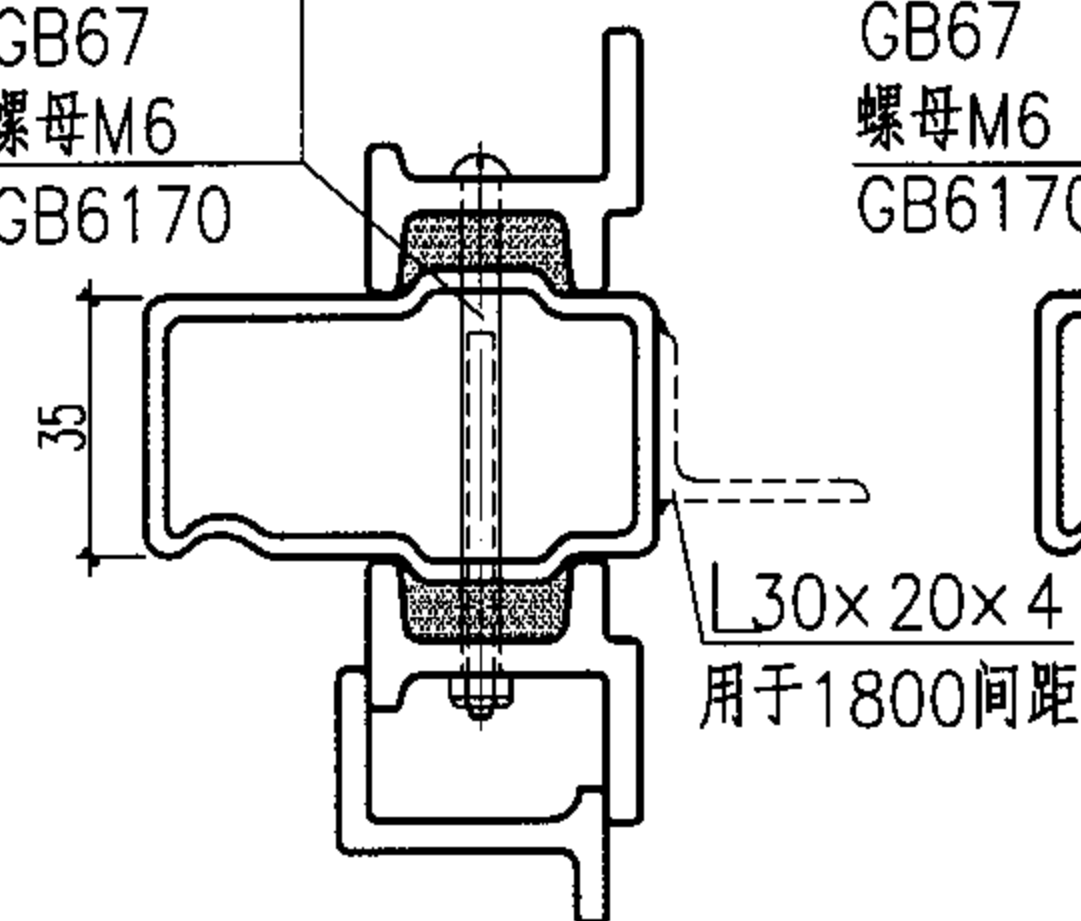
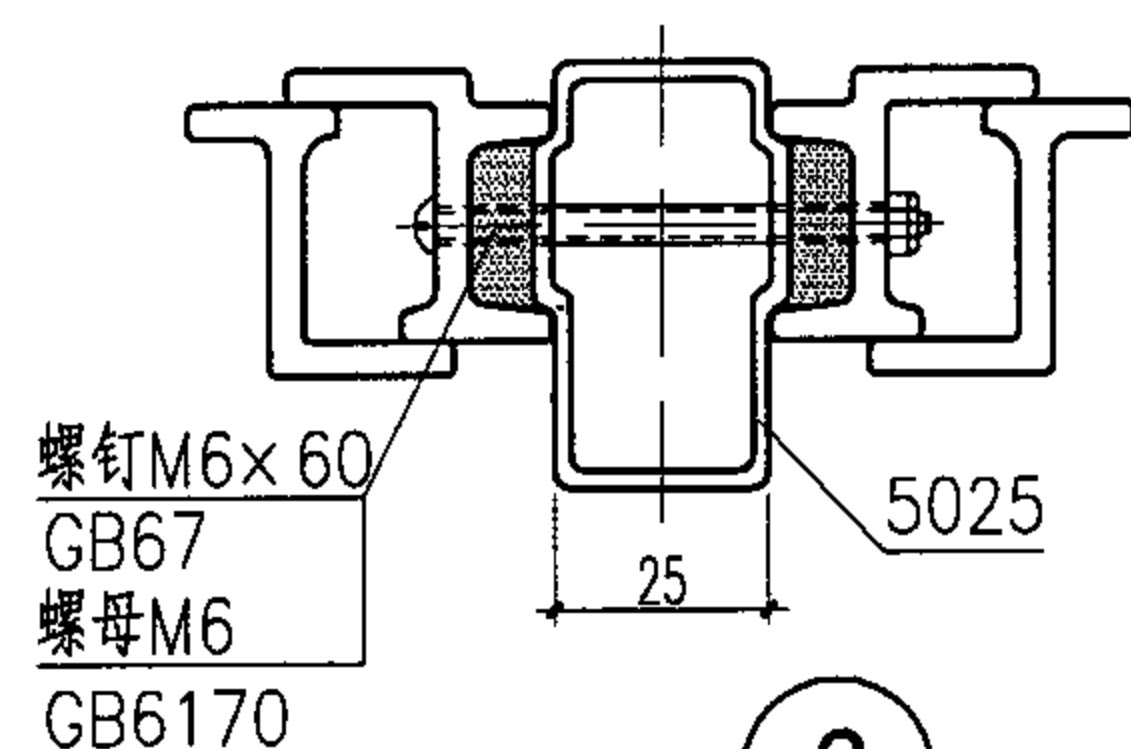
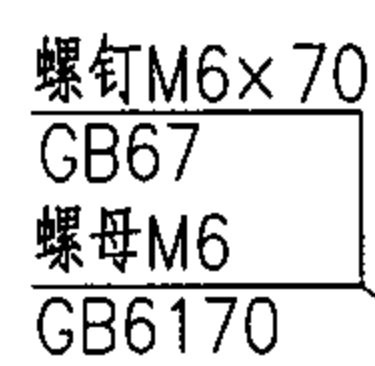
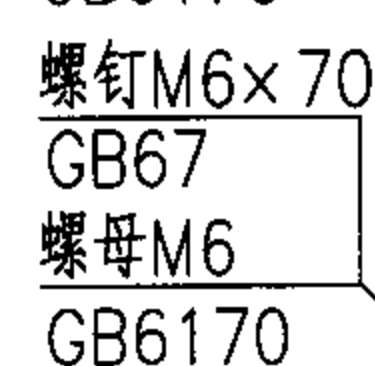
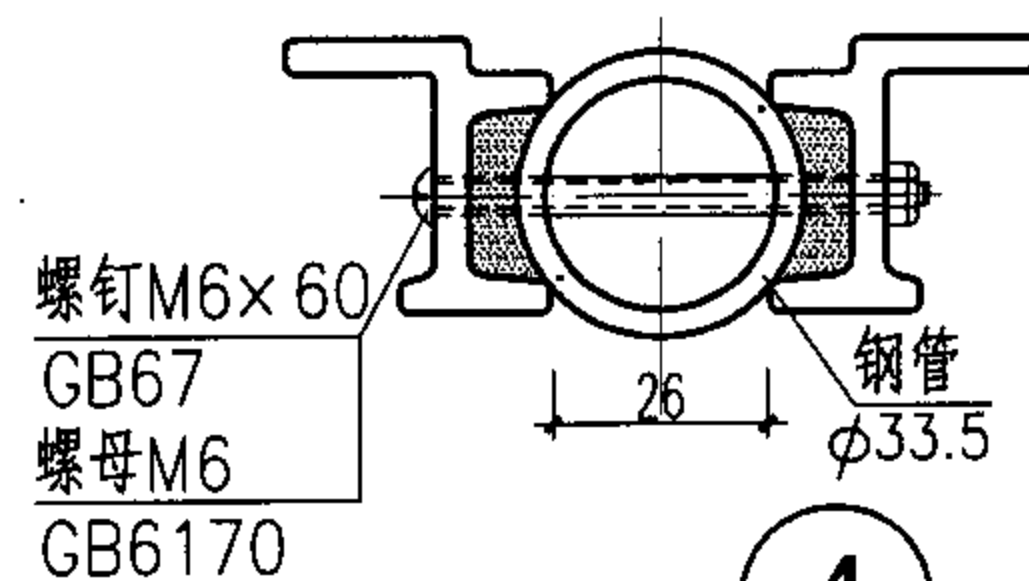
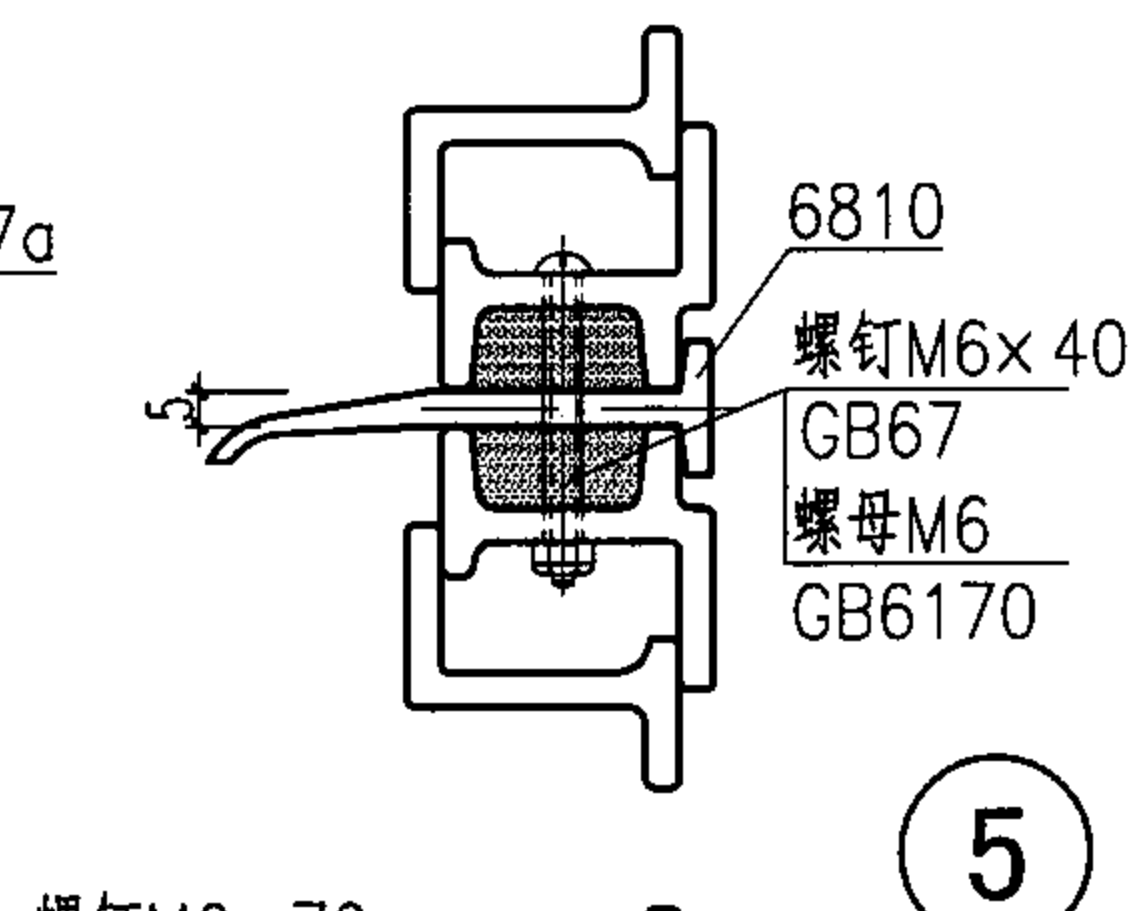
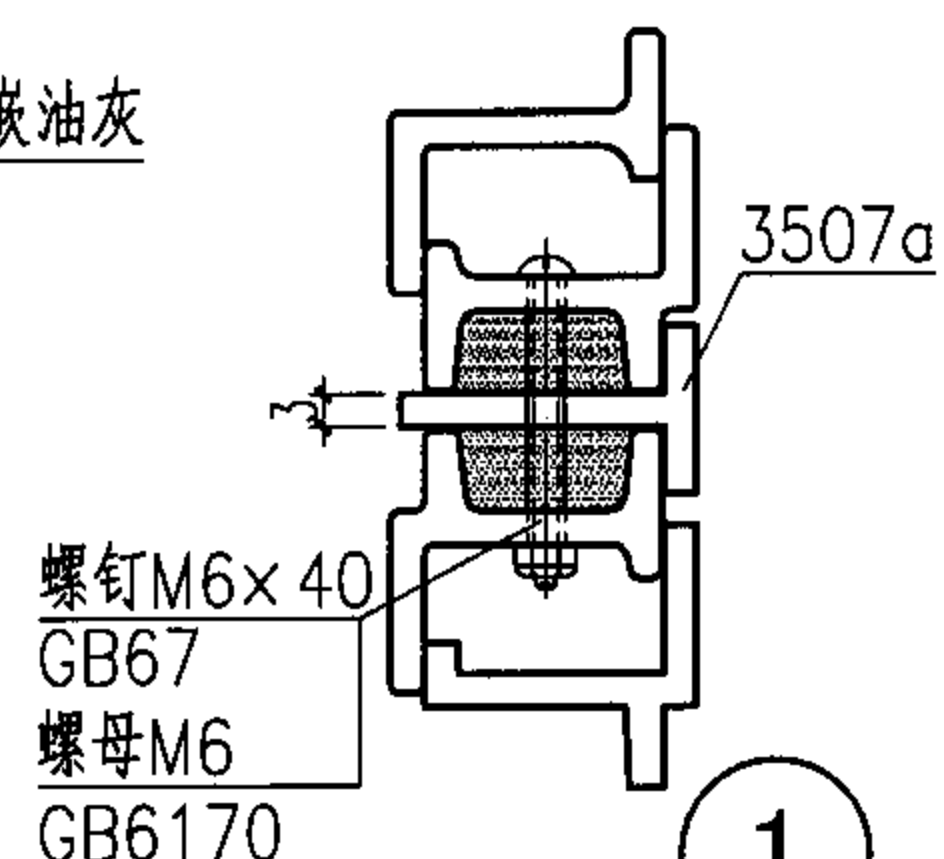
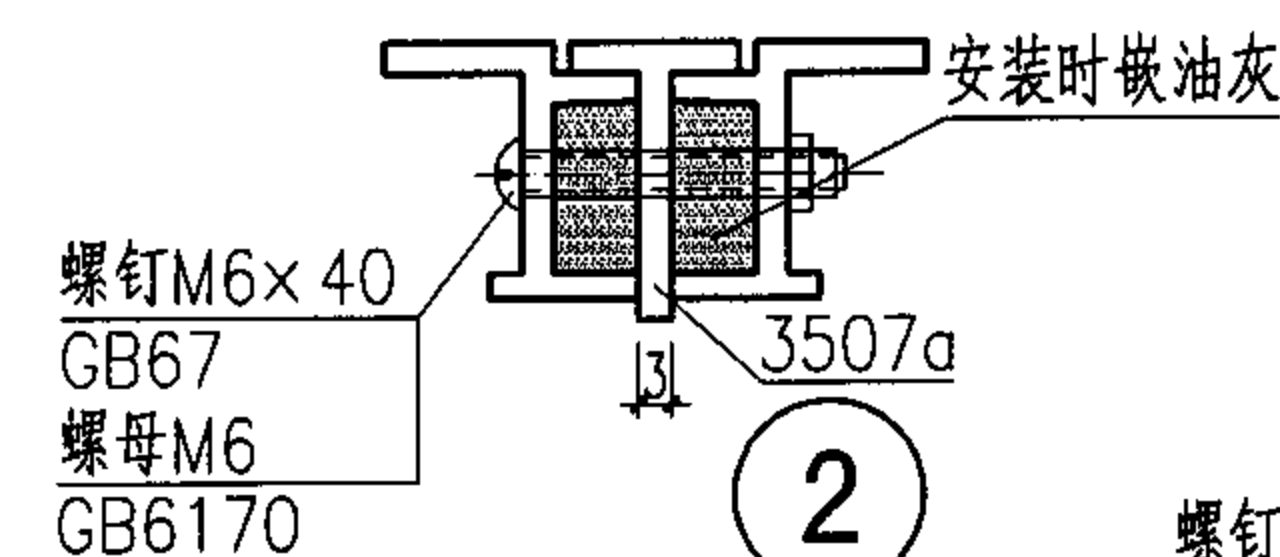
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拼樘料选用表

允许跨度	允许间距	材料代号	拼缝尺寸
2400	1200	3507a	3
2400	1500	$\phi 33.5$ $\triangle$	26
2400	1500	6810 $\circ$	5
2700	1500	5025 $\triangle$	25
3600	1500	6035 $\circ$	35
3600	1800	6035 $\circ$ +L30 $\times$ 20 $\times$ 4	35
4800	1800	2 $\times$ 6035 $\circ$	35

注：带“ $\circ$ ”者为竖向组合构件，带“ $\triangle$ ”者为横向组合构件，其余构件竖向、横向组合均可使用。



组合窗拼装节点、拼樘料选用表

图集号

04J602-1

审核 郭景

设计 孙钢男

校对 李力

设计 孙钢男

设计 孙钢男

设计 孙钢男

设计 孙钢男

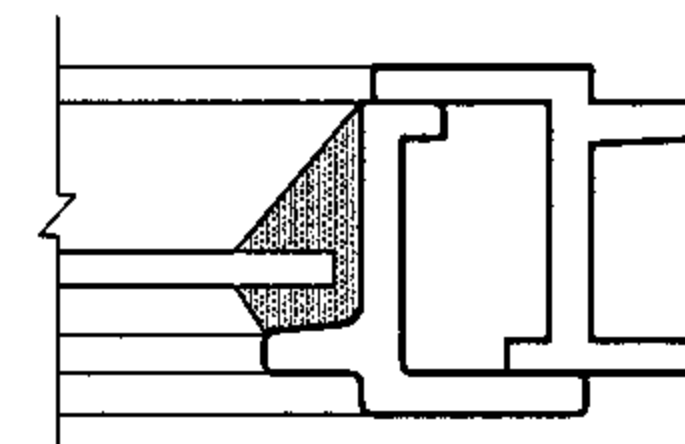
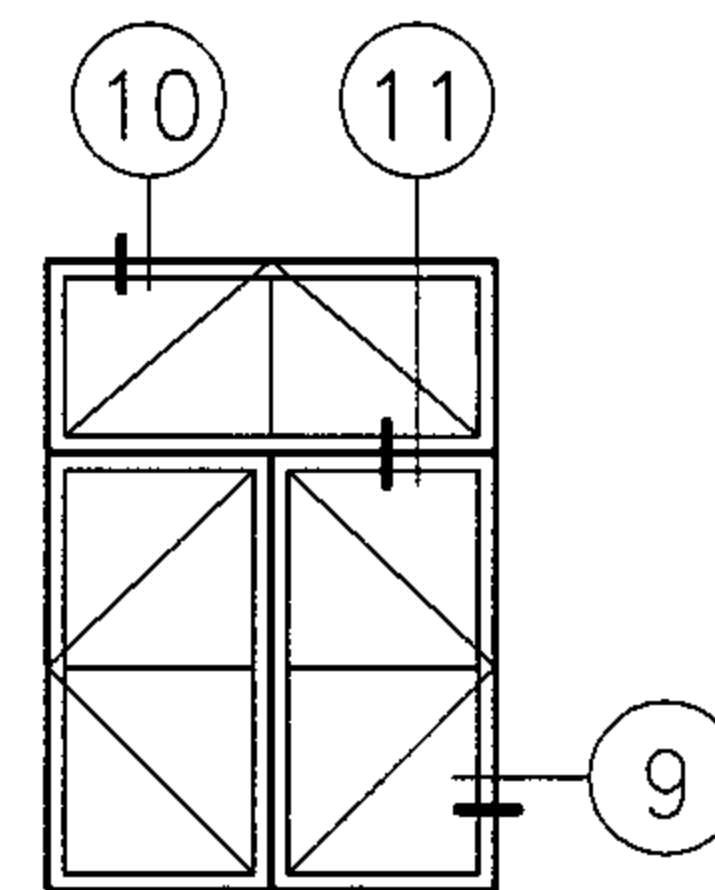
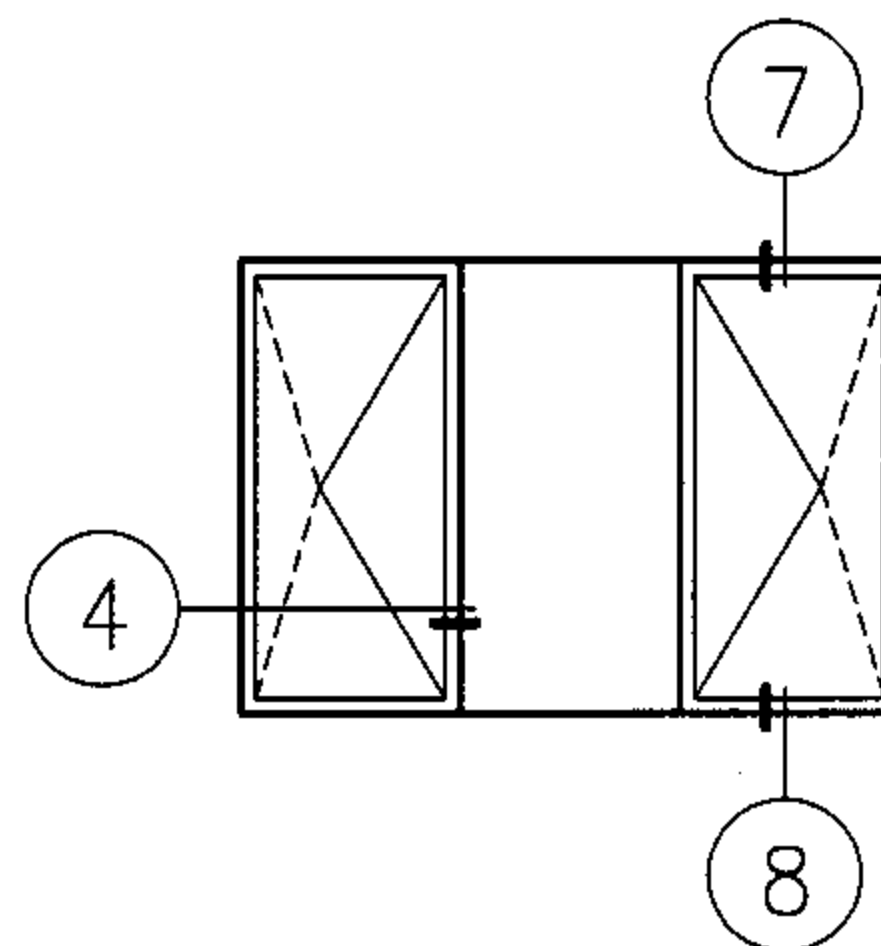
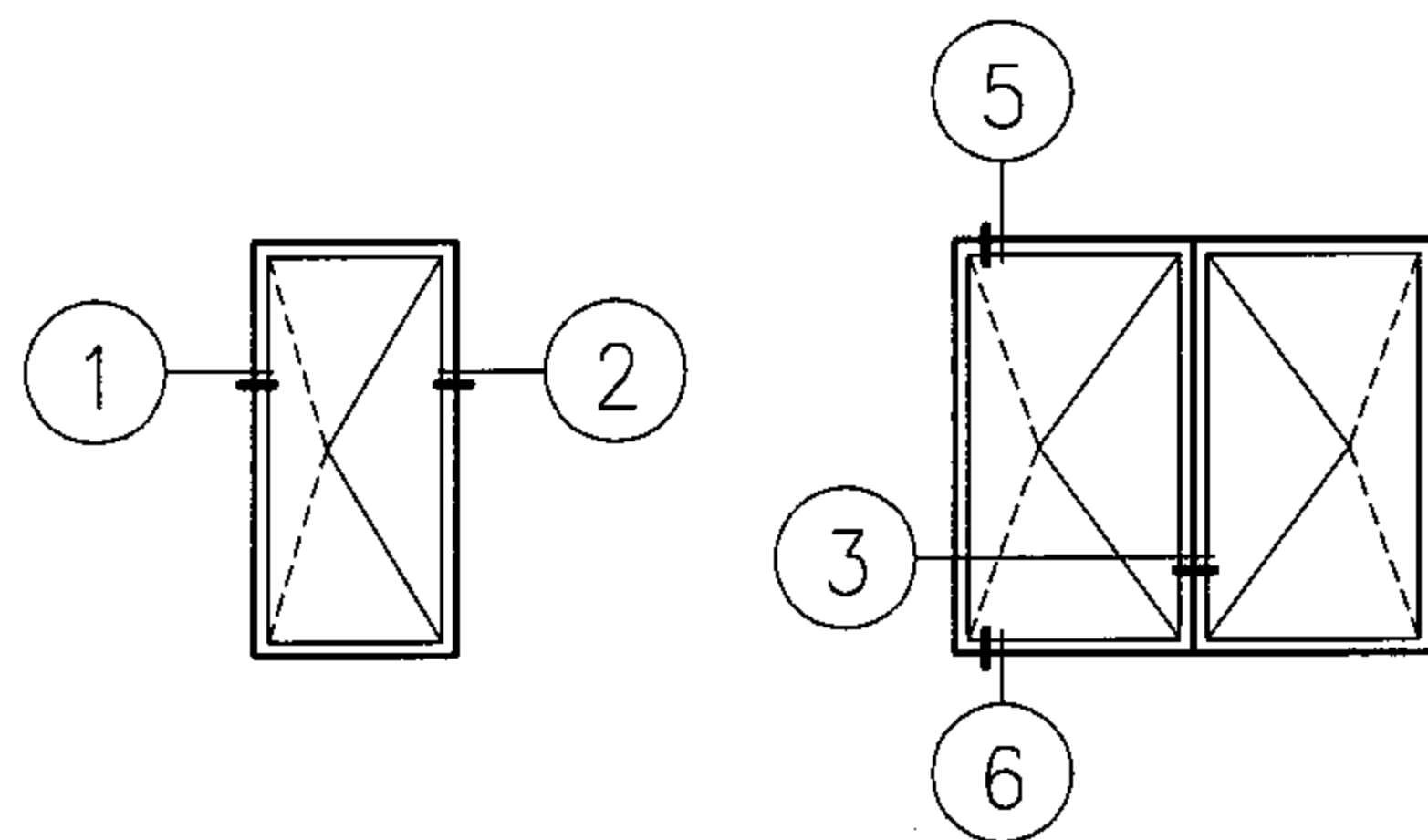
设计 孙钢男

设计 孙钢男

设计 孙钢男

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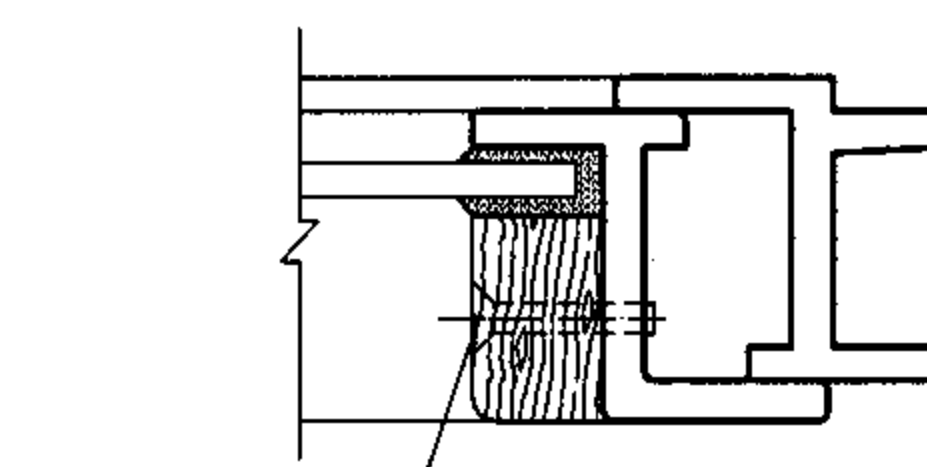
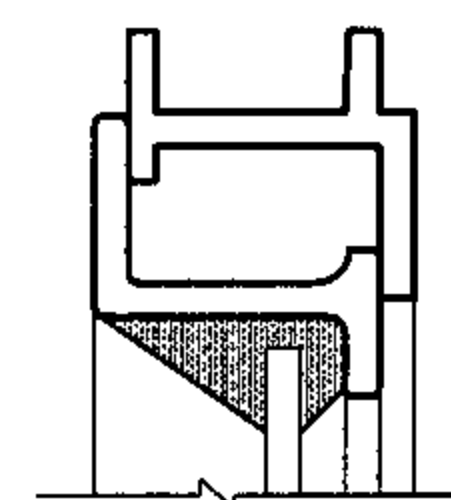
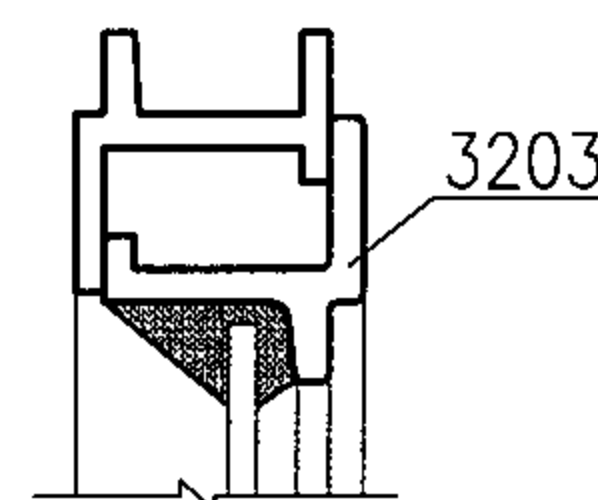
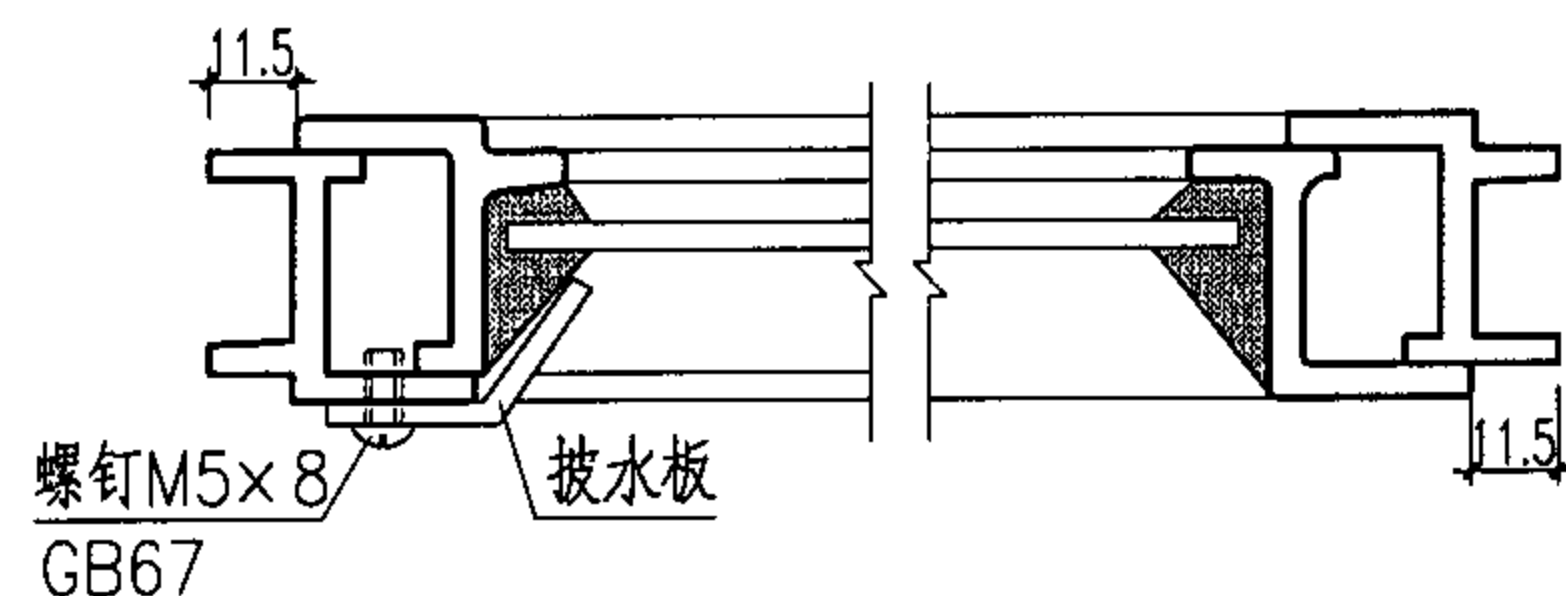
42



立转窗

内配玻璃窗

9



1

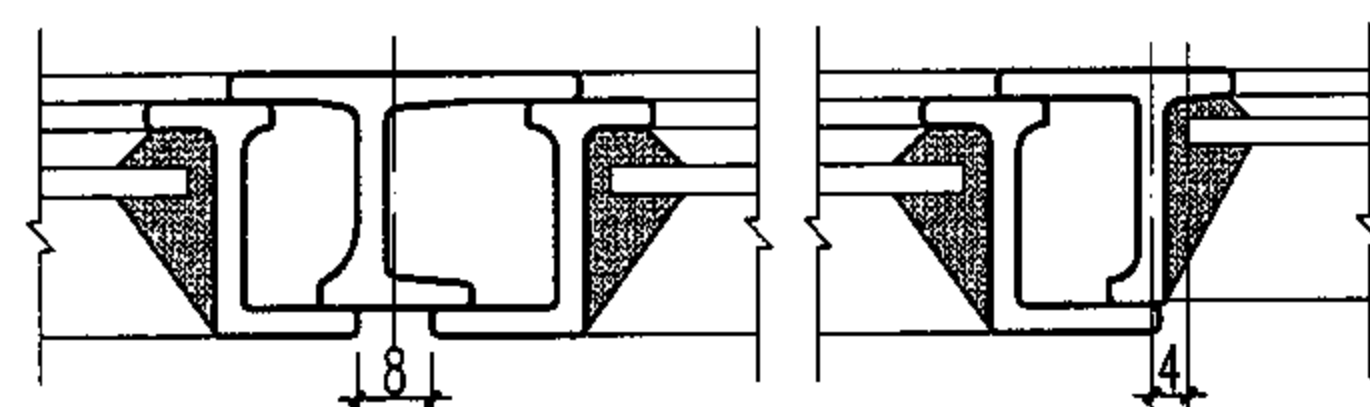
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5

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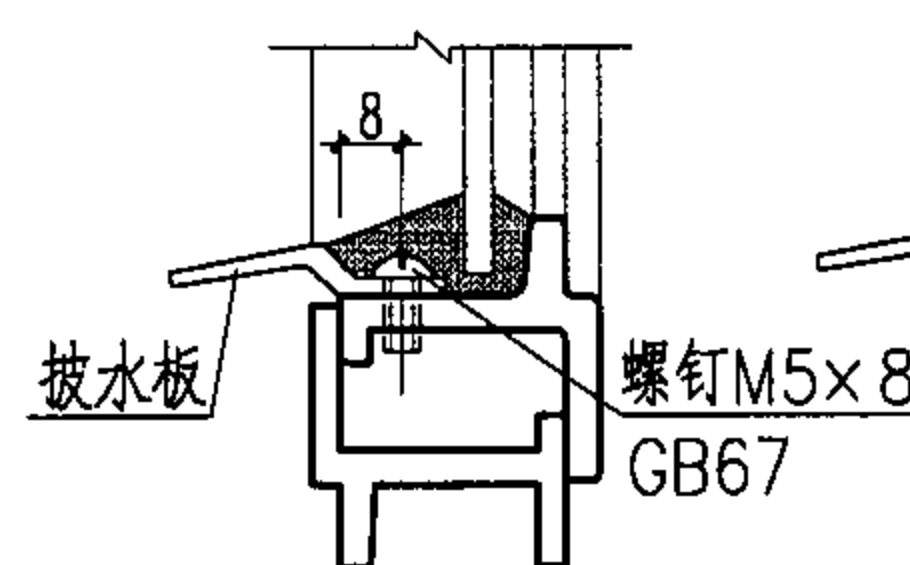
10

A 木压条

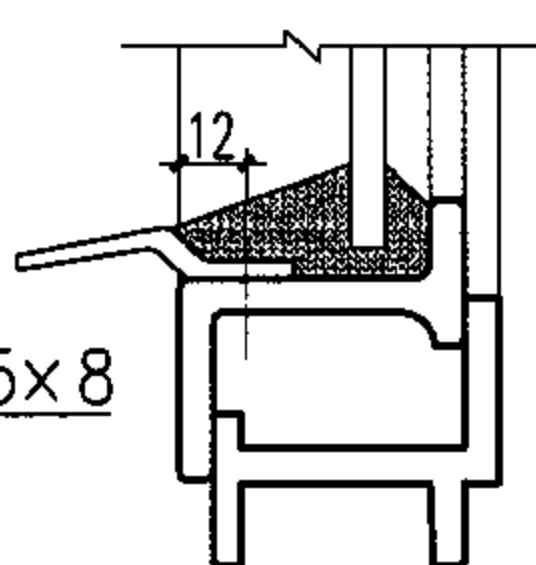


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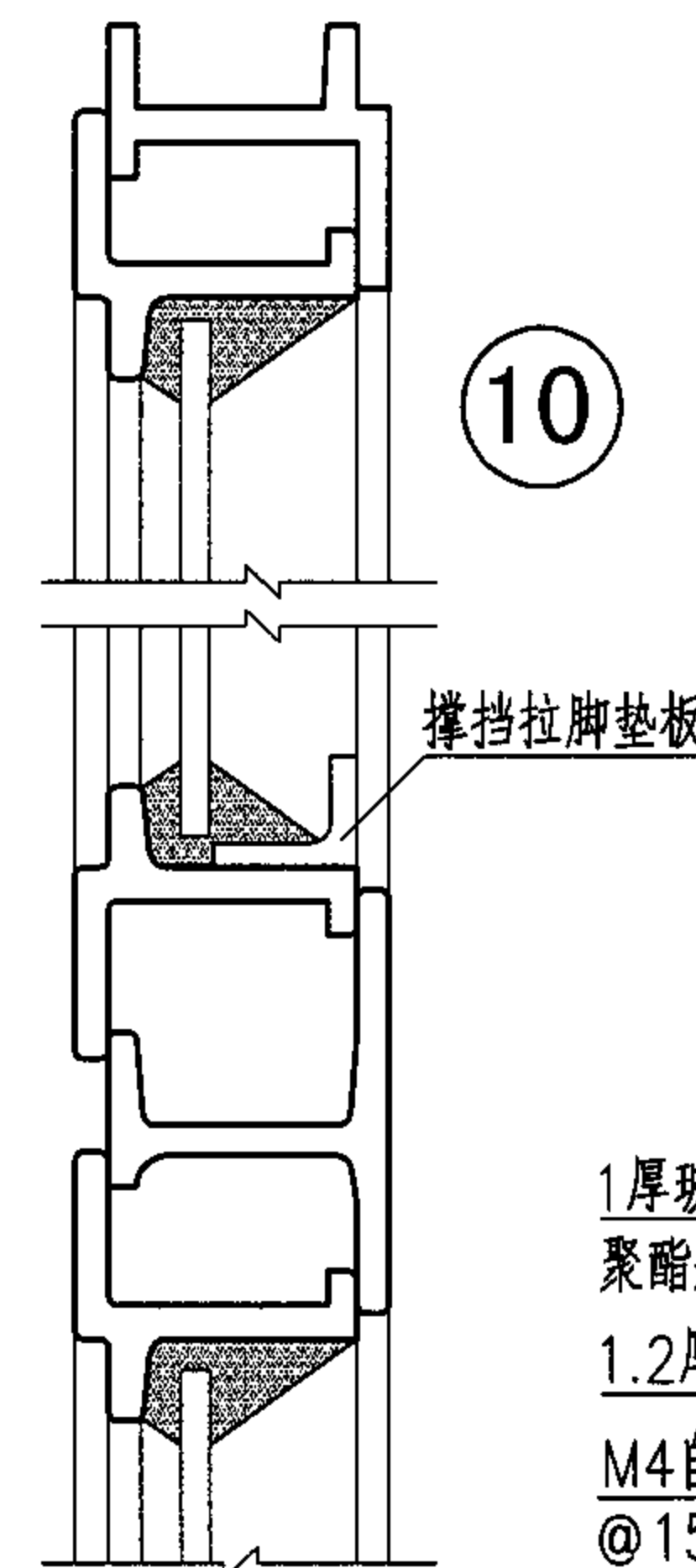
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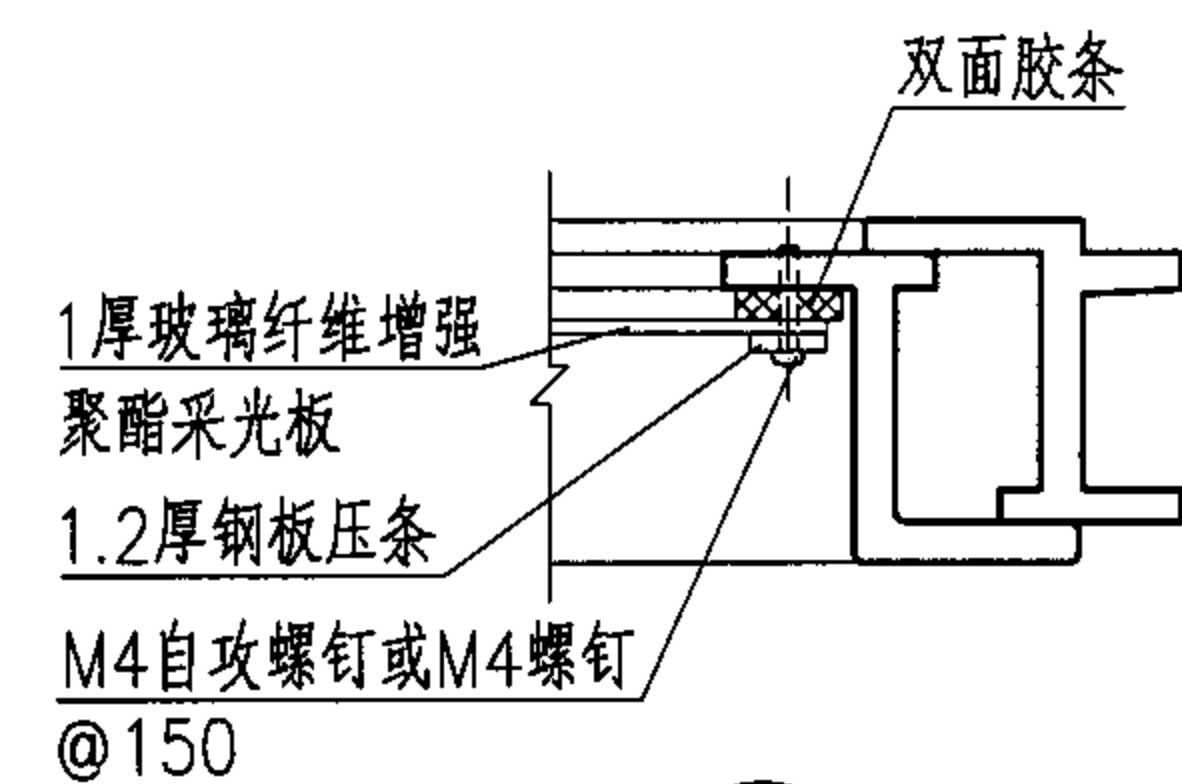
6



8



11



B 钢板压条

- 注：1.采用内配玻璃、木压条、玻璃纤维增强聚酯采光板、钢板压条时，需在门窗表中注明。
- 2.采用玻璃纤维增强聚酯采光板时，要注明透光率、氧指数等要求。
- 3.玻璃纤维增强聚酯采光板安装孔应比螺钉直径大1.5毫米。

立转窗、内配玻璃、木压条、钢板压条节点图

图集号

04J602-1

审核 郭景

设计 孙钢男

校对 李力

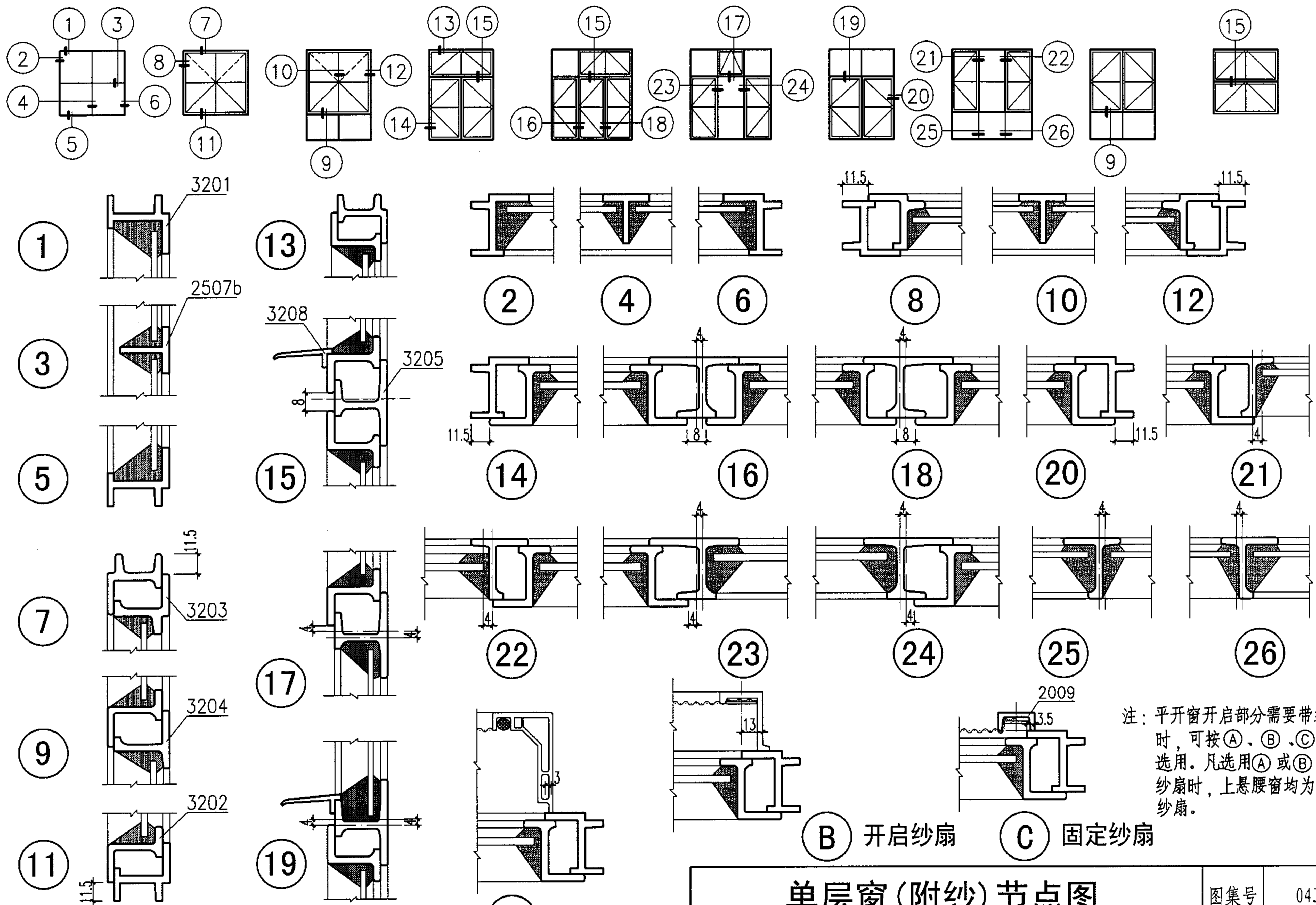
设计 孙钢男

设计 孙钢男

设计 孙钢男

页

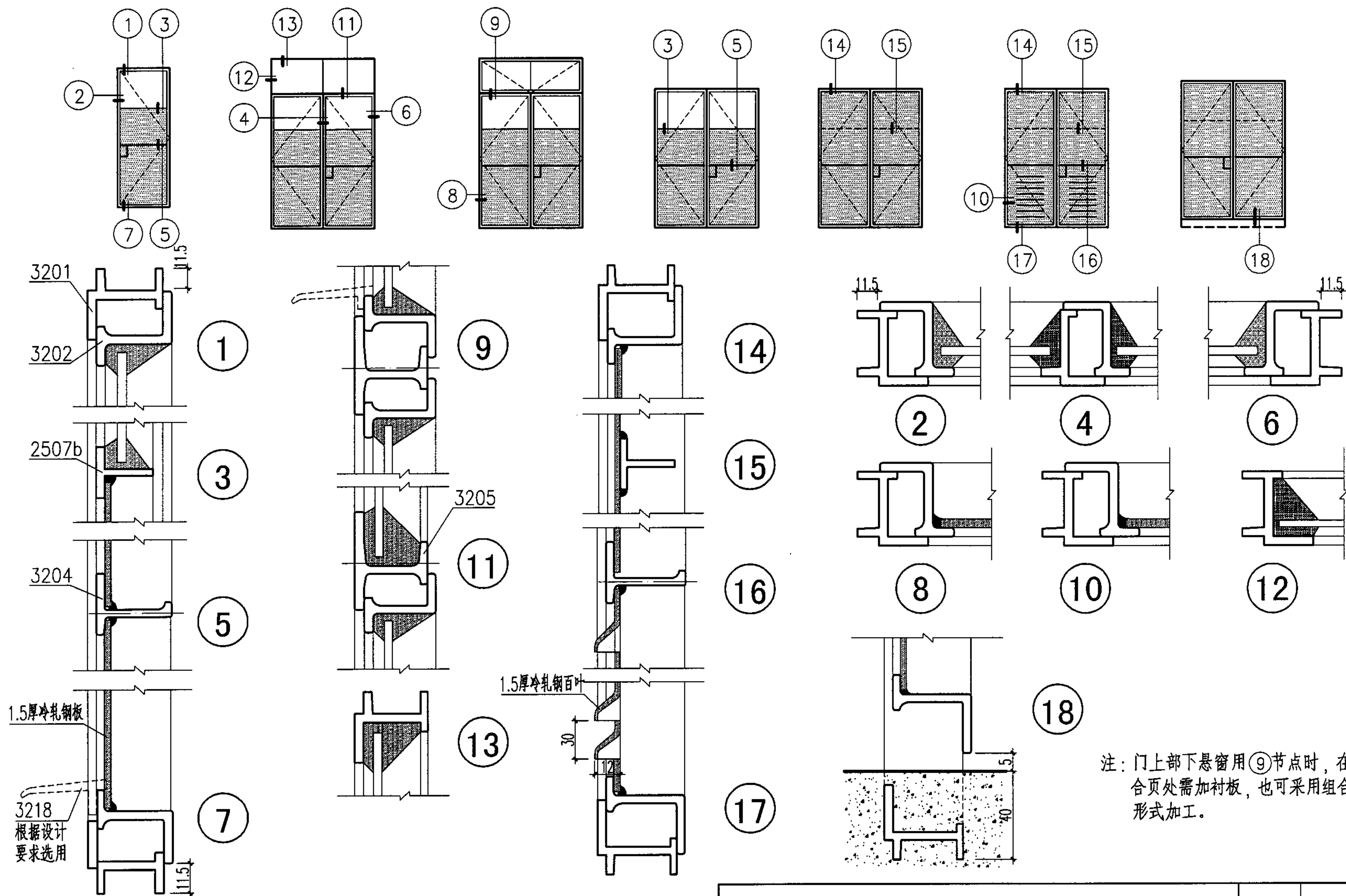
43



注：平开窗开启部分需要带纱扇时，可按①、②、③节点选用。凡选用①或②开启纱扇时，上悬窗均为固定纱扇。

① 开启纱扇 ② 固定纱扇

单层窗(附纱)节点图						图集号	04J602-1
审核	郭景	设计	李力	孙钢男	孙钢男	页	44



内开门节点图

图集号

04J602-1

审核 郭景

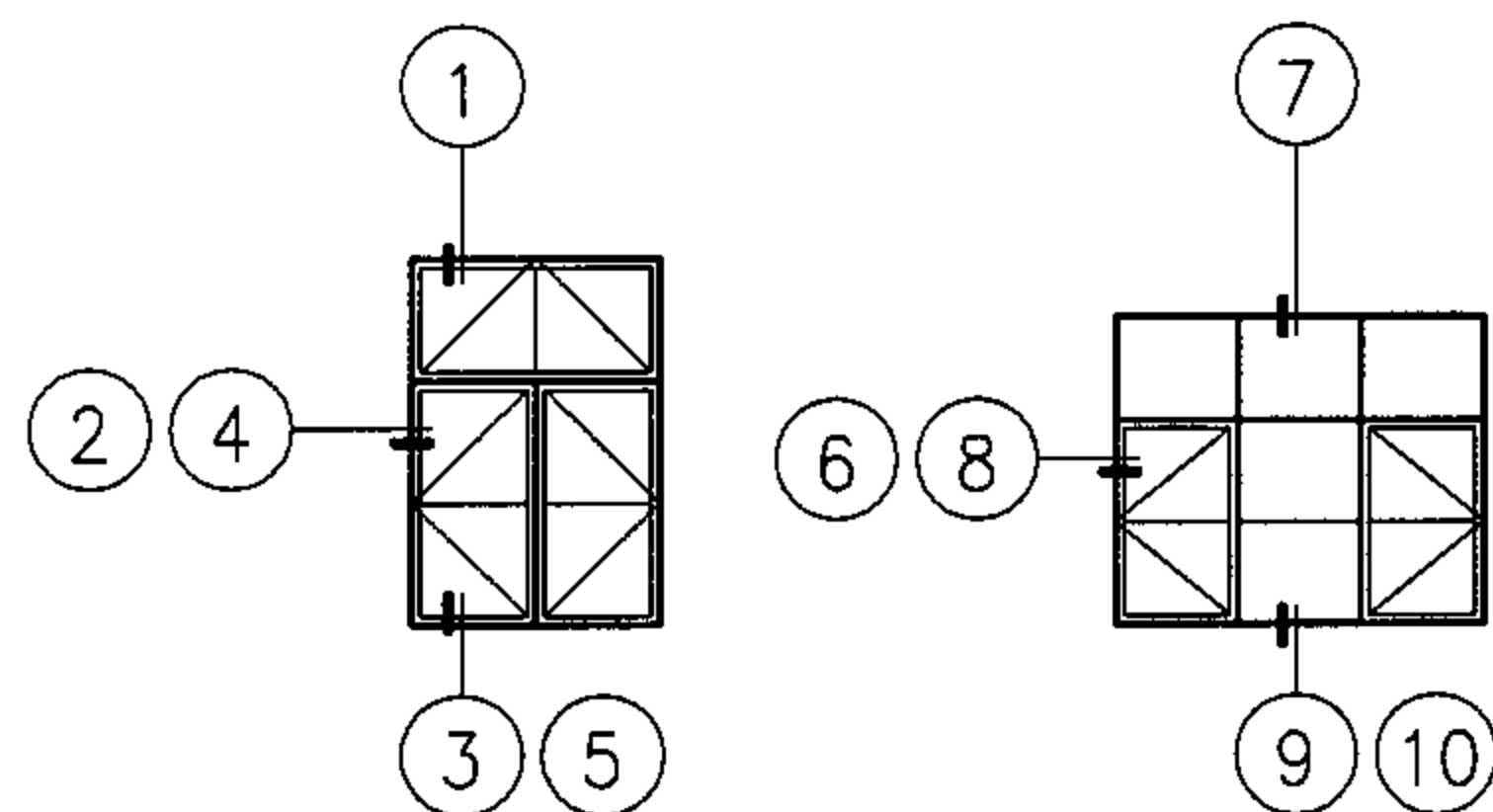
校对 李力

设计 孙钢男

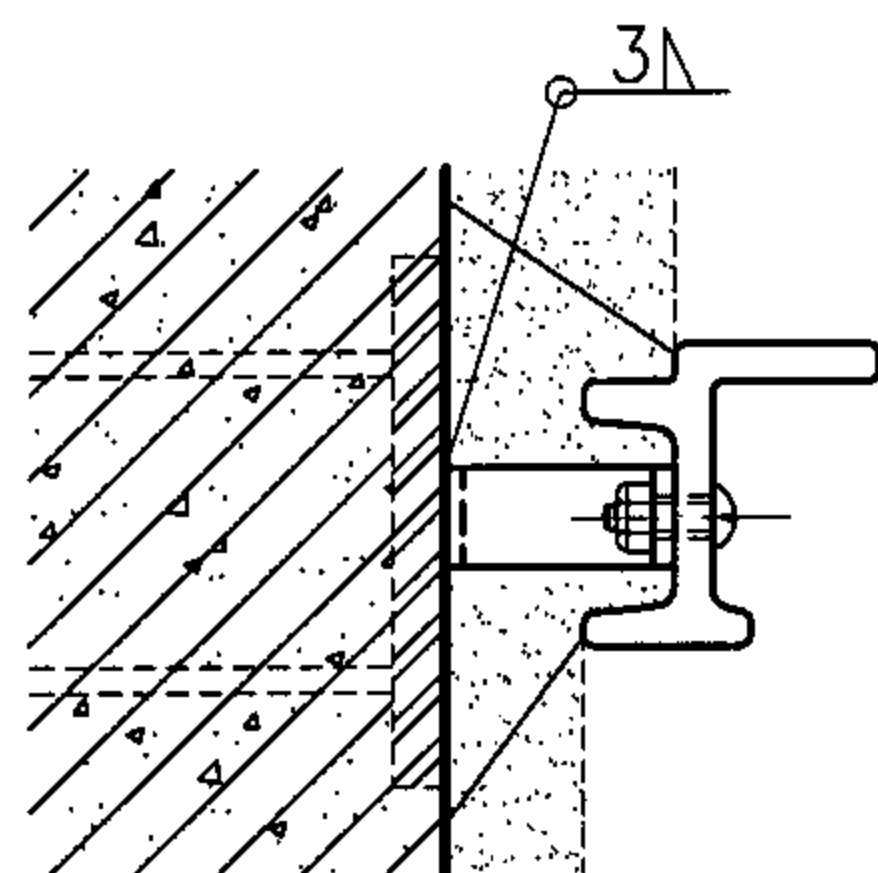
孙钢男

页

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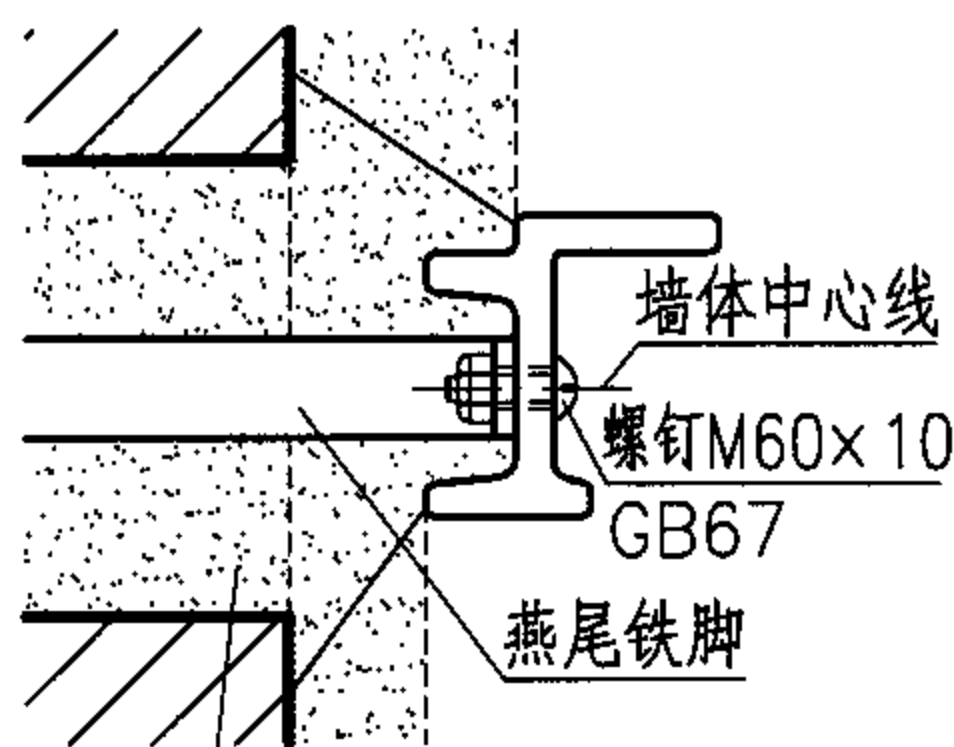


基本窗立面示意



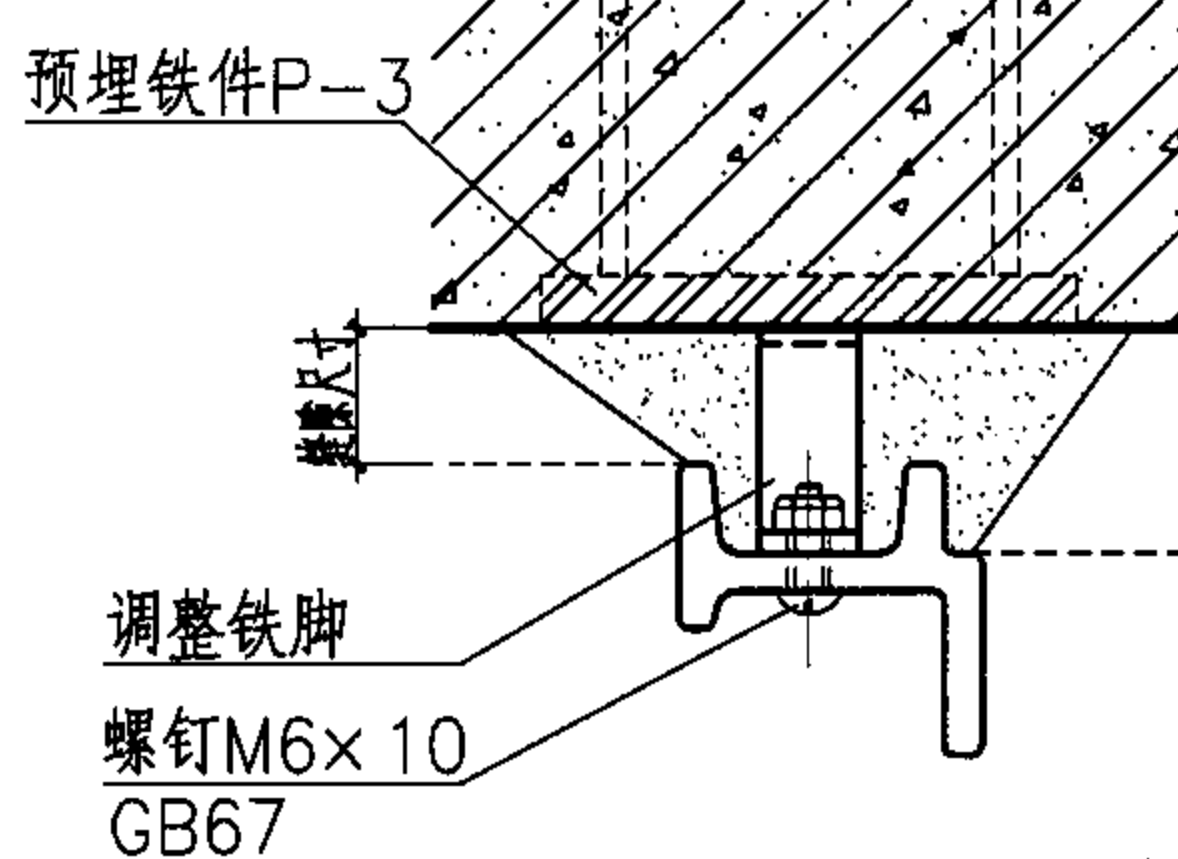
2

孔60×60深100
填1:2水泥砂浆



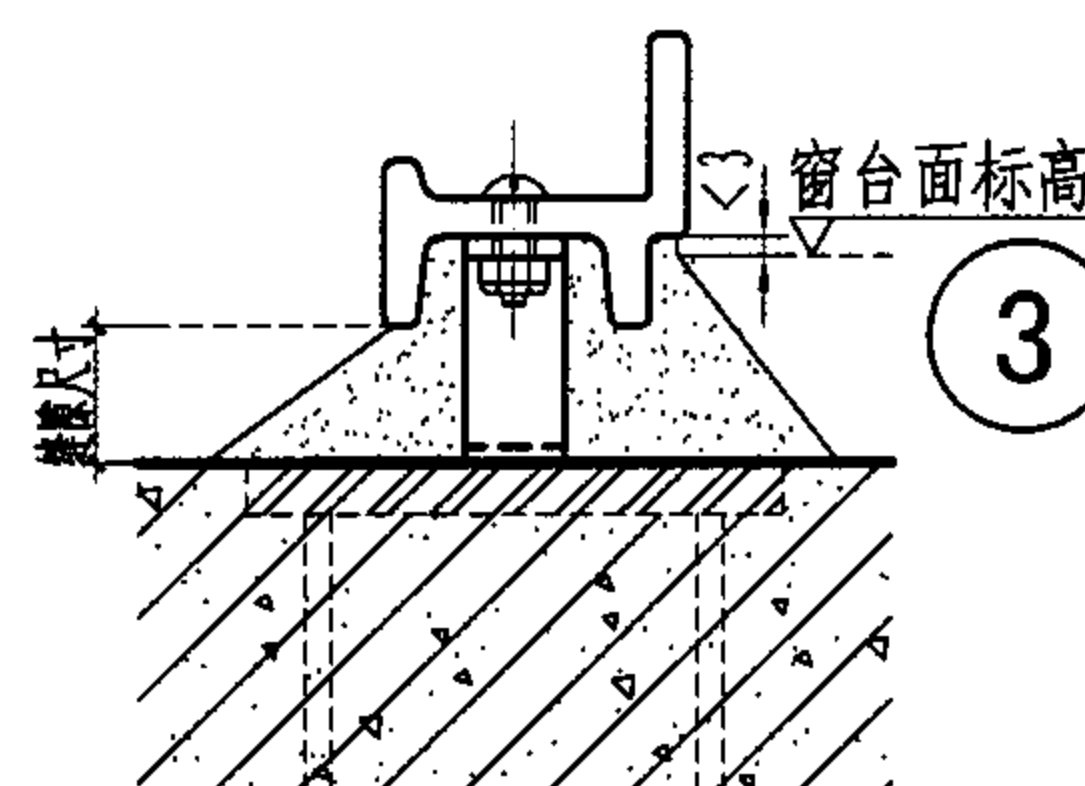
4

墙体中心线
螺钉M60×10
GB67
燕尾铁脚



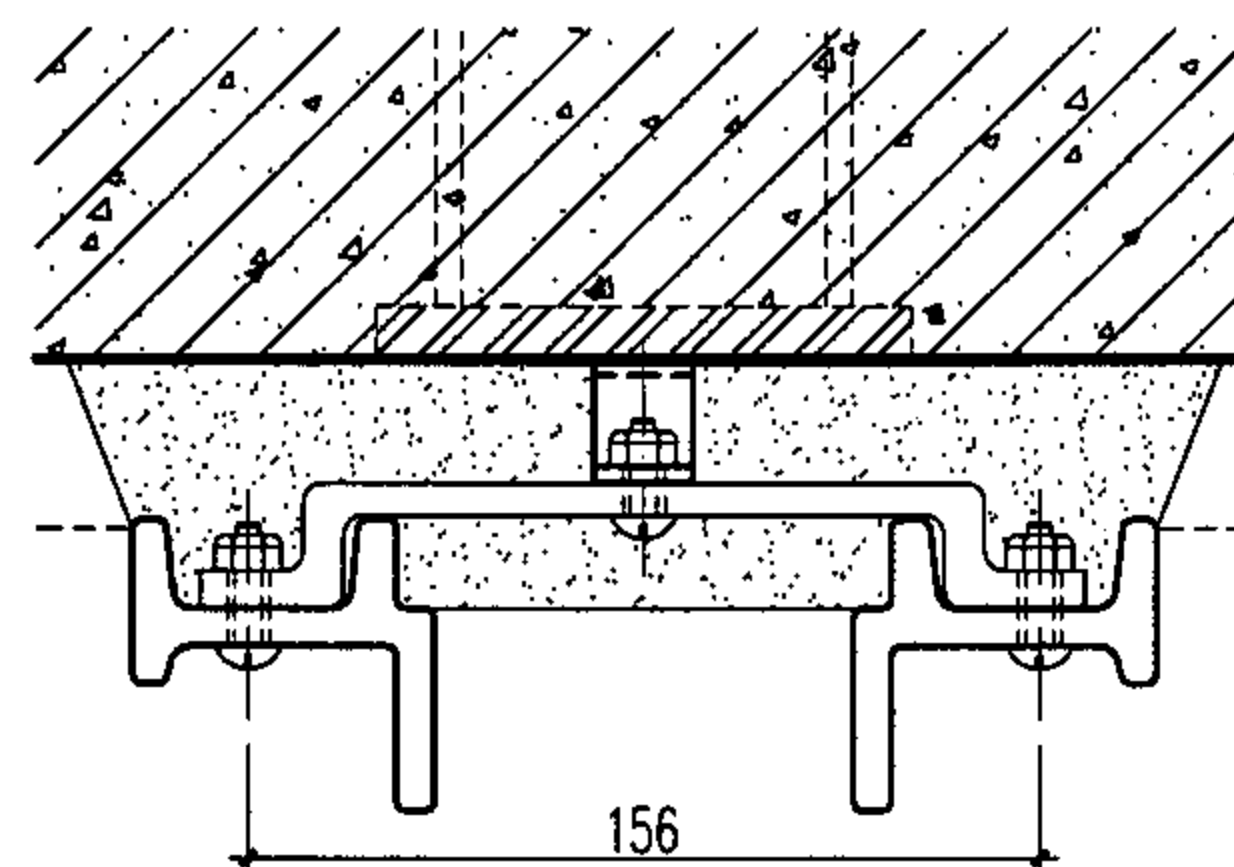
1

预埋铁件P-3
调整铁脚
螺钉M6×10
GB67

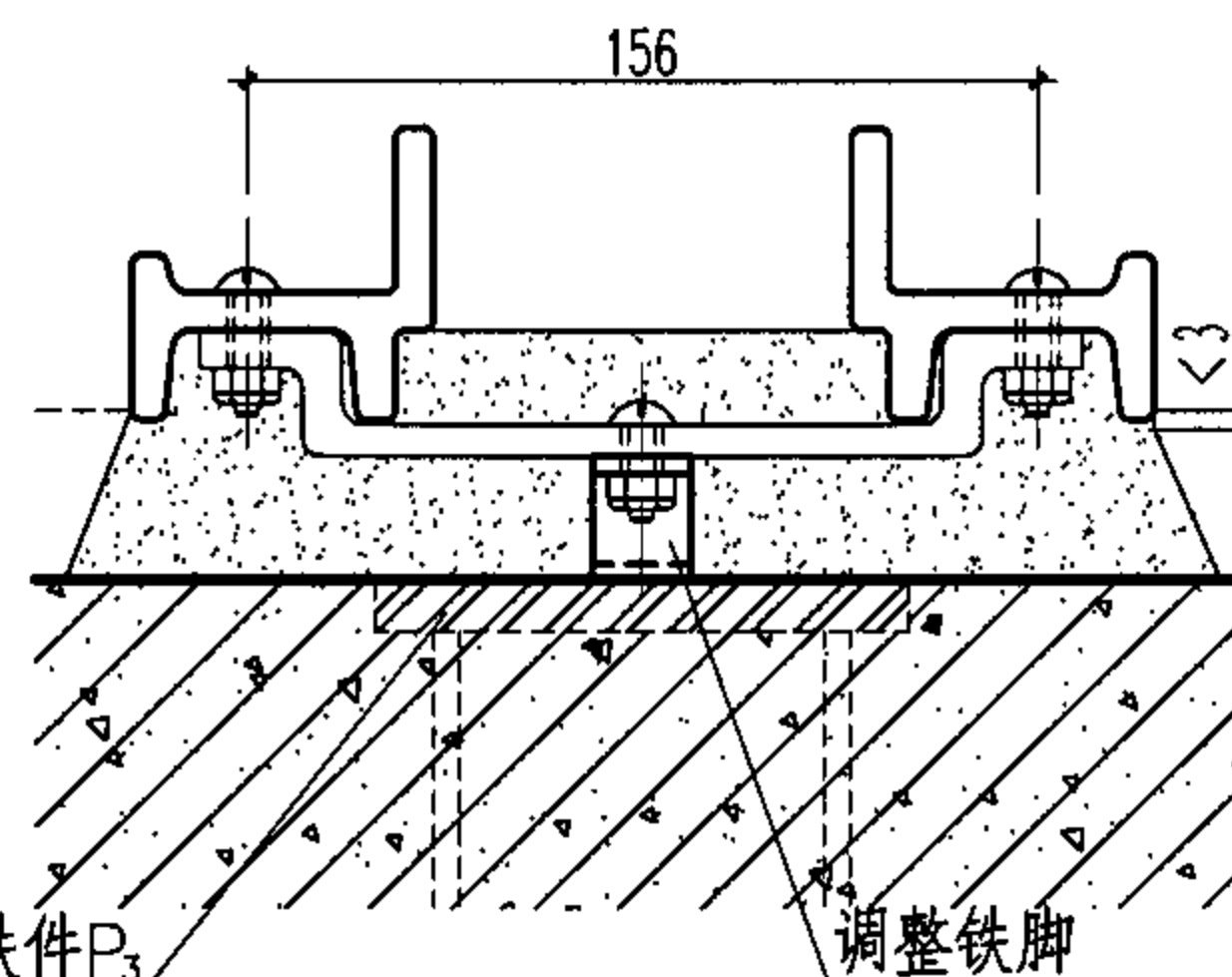


3

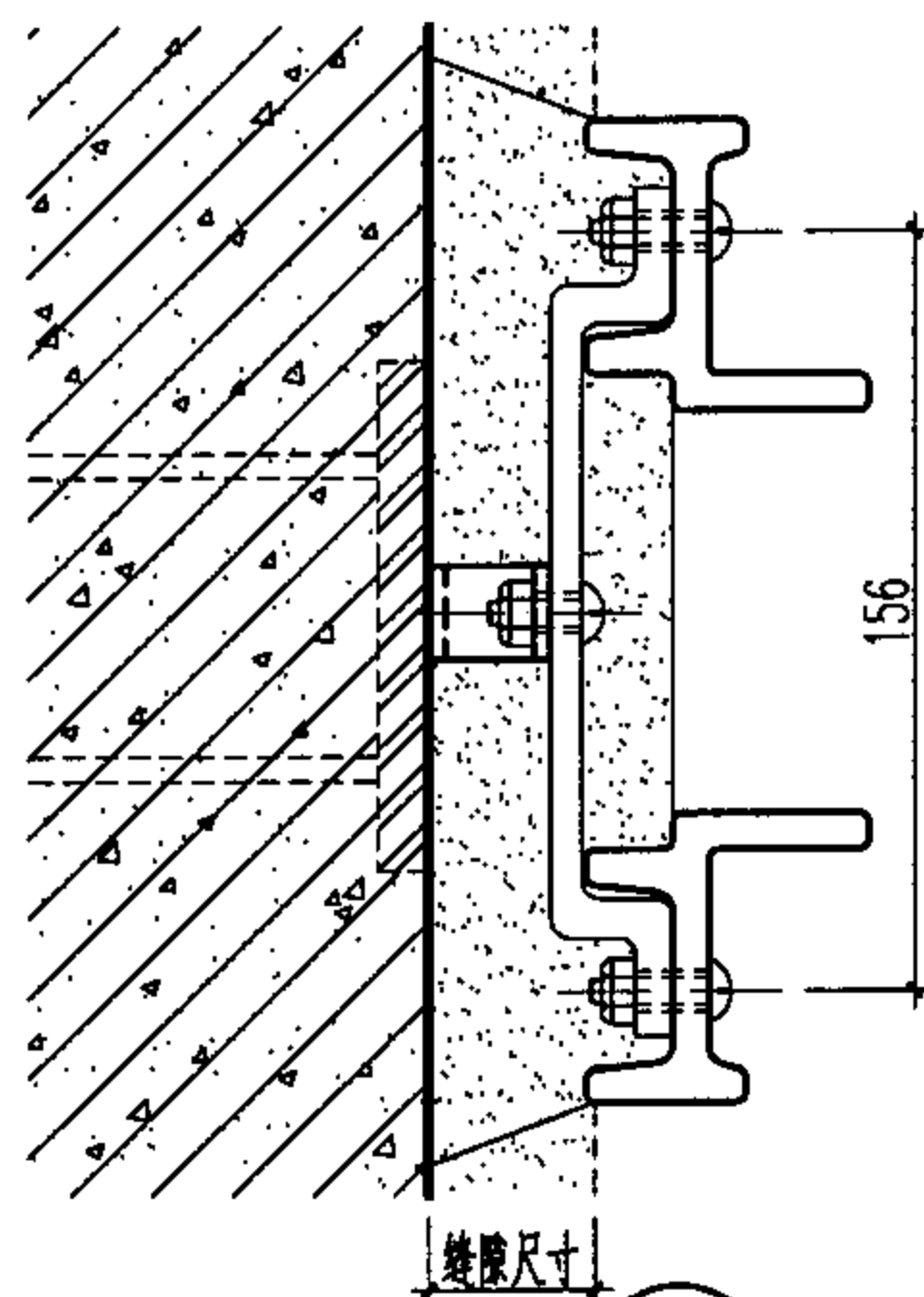
窗台面标高



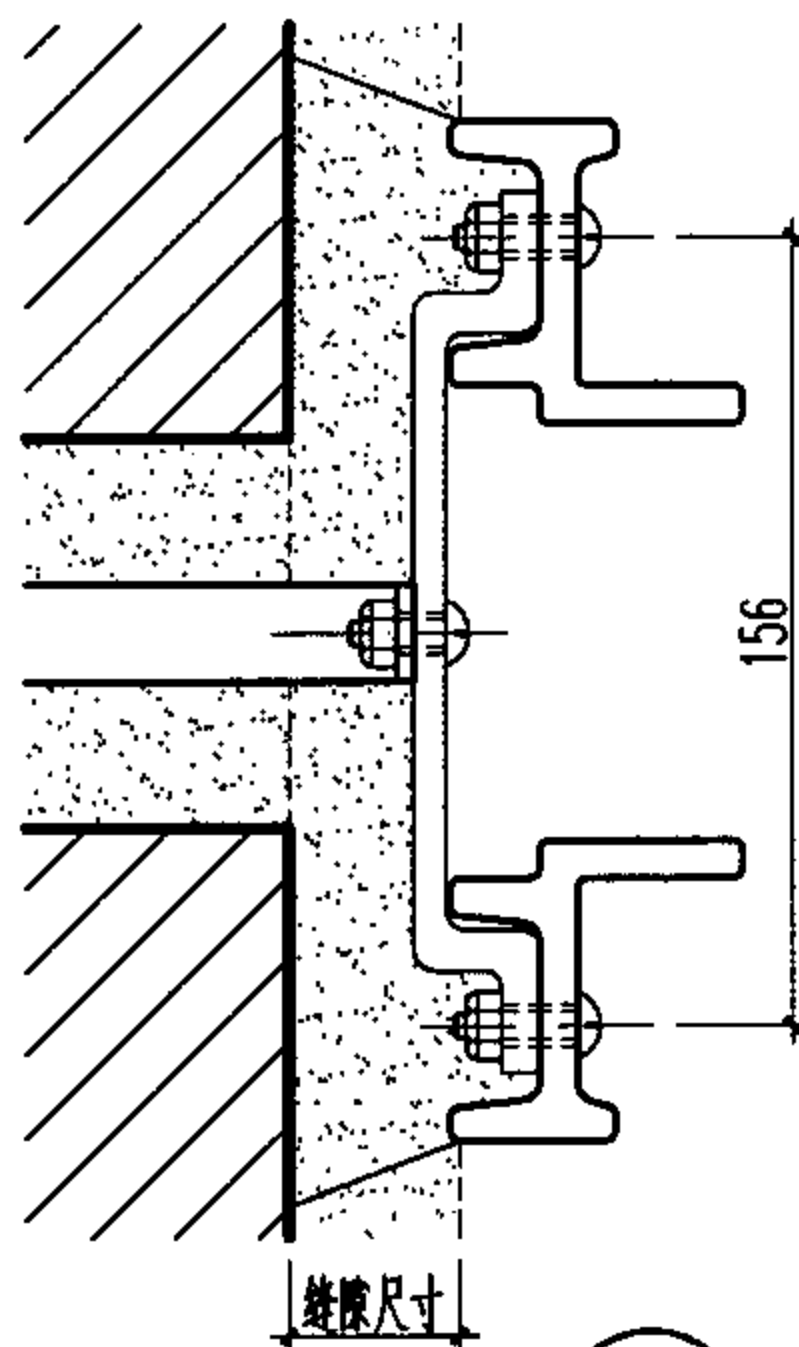
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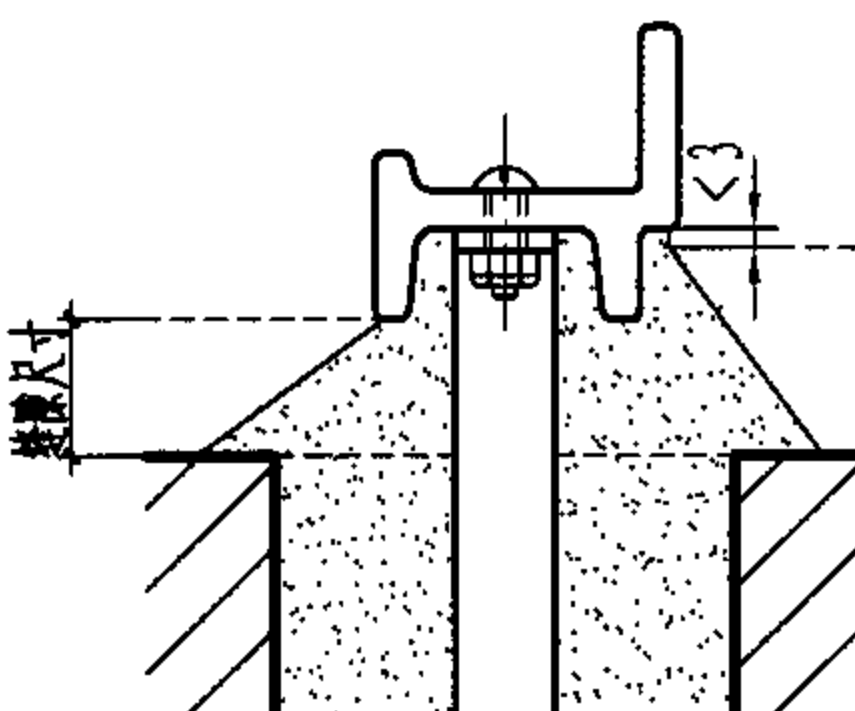
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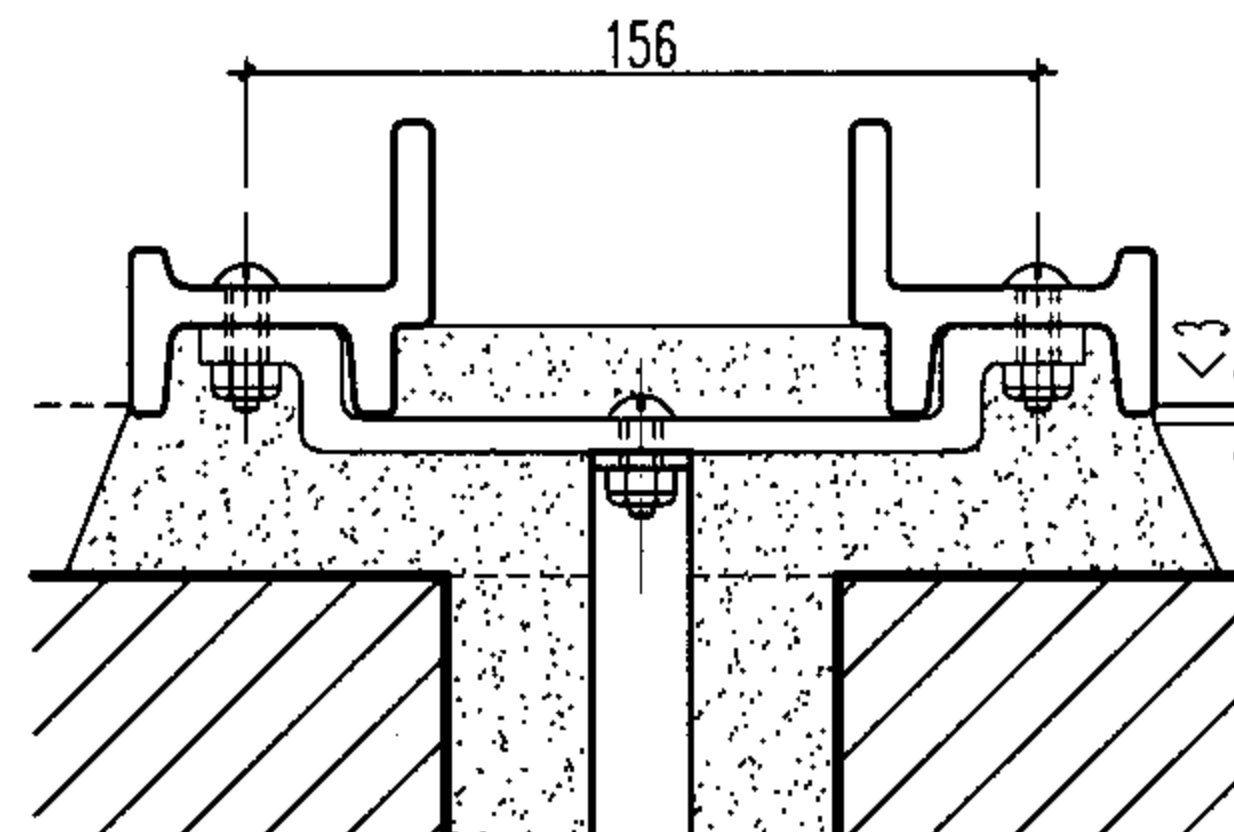
6



8



5



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注: 1. 预埋铁件P-3见48页。

2. 窗棂铁脚与墙体安装也可采用金属膨胀螺栓 $\geq M8 \times 65$ 。

窗棂铁脚安装图

图集号

04J602-1

审核 郭景

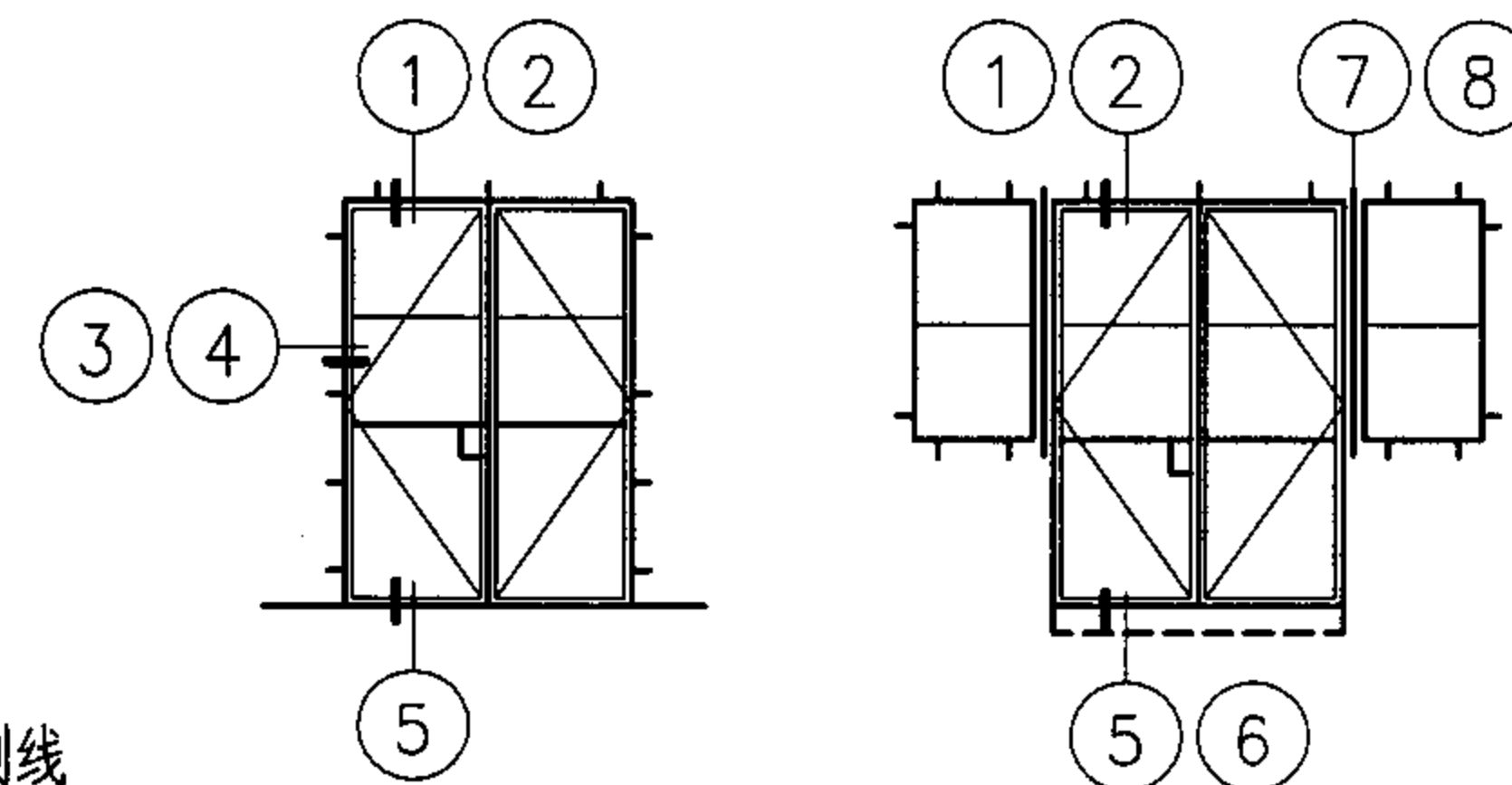
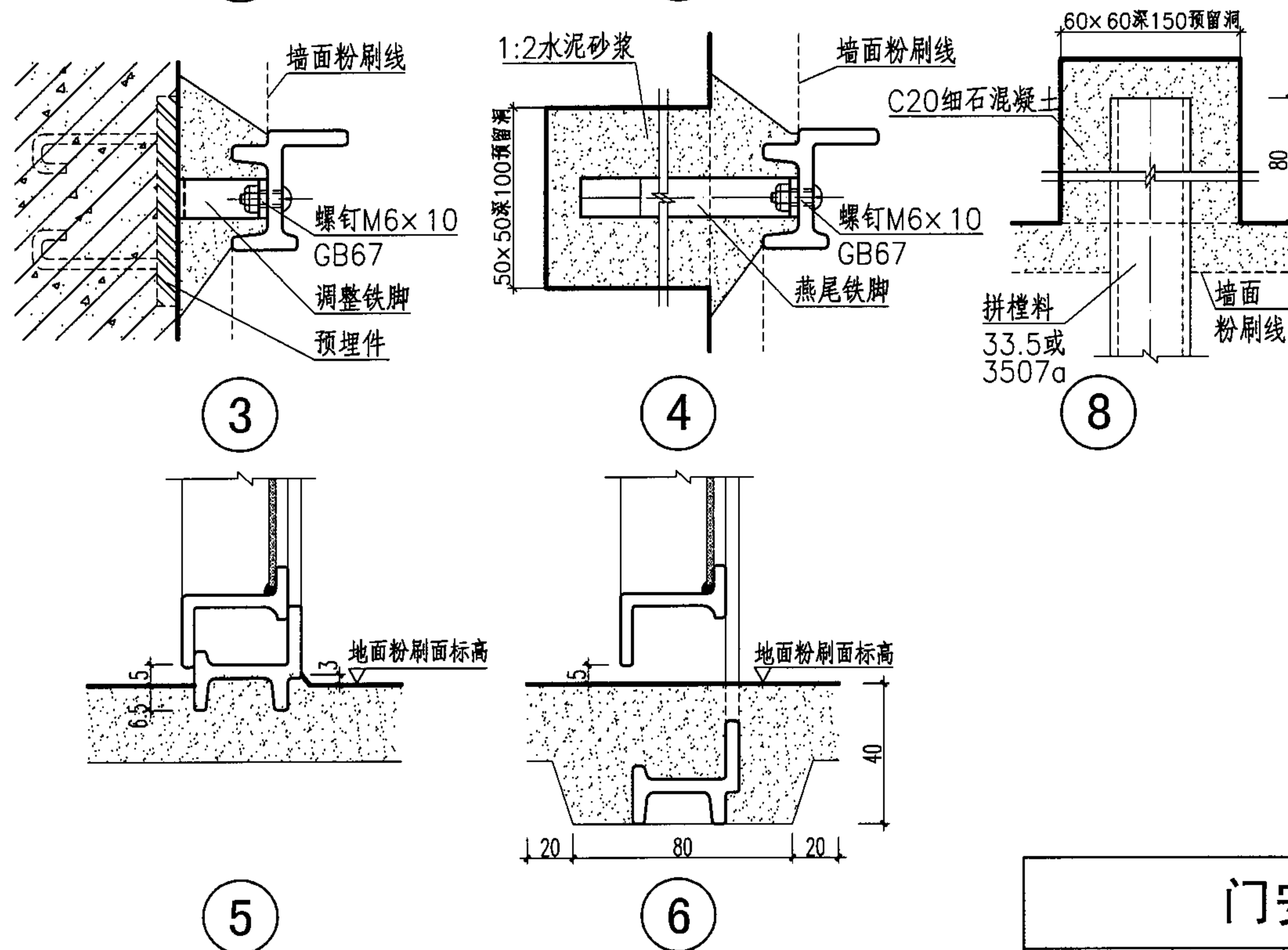
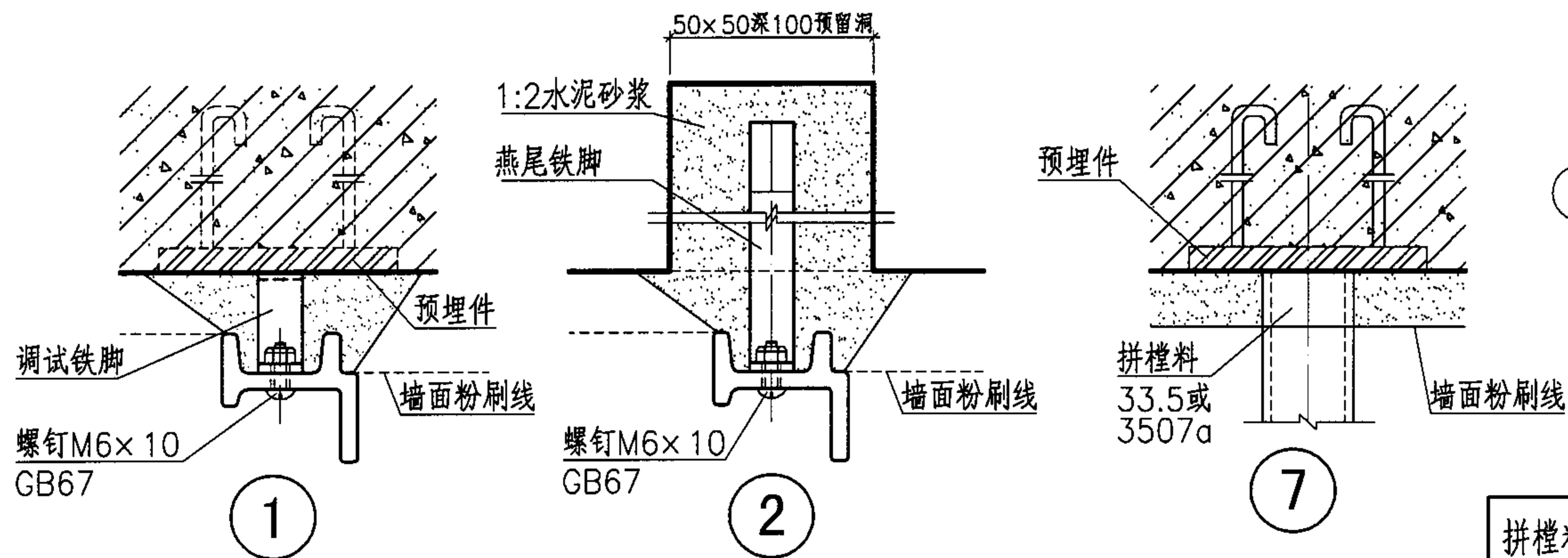
校对 李力

设计 孙钢男

孙钢男

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预埋件选用表

拼樘料 (代号)	预埋件 (编号)	钢板尺寸(mm)			锚筋尺寸(mm)		锚筋位置 C
		宽 a	长 b	厚 s	根数 直径	锚固长度 l	
3507a	M-1	80	80	6	2 ϕ 8	100	15
6810	M-1	80	80	6	2 ϕ 8	100	15
ϕ 33.5	M-1	80	80	6	2 ϕ 8	100	15
5025	M-2	100	100	6	2 ϕ 8	100	20
预埋件示意图							

附注：1. 钢材采用Q235-B。
2. 采用接触焊或电弧焊，焊缝高度6mm。
3. 锚筋断料长度为锚固长度加50mm。

门安装节点详图

图集号

04J602-1

审核 郭景

设计 孙钢男

校对 李力

设计 孙钢男

设计 孙钢男

设计 孙钢男

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主编单位	中国建筑标准设计研究院	孙钢男	010-88361155-207
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以下企业为本图集协编单位，在图集编制过程中，提供了相关的技术资料，对图集的编制工作给予了很大的支持，特表示感谢。

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