未增塑聚氯乙烯（PVC-U）塑料门窗

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目　　录

目录……1
总说明……2
门窗性能指标……7
系列门窗特点……8

索引图

内平开窗立面图……10
外平开窗立面图……13
上悬窗立面图……16
内平开下悬窗立面图……17
推拉窗立面图……19
平开组合窗立面图……32
内平开下悬组合窗立面图……35
推拉组合窗立面图……36
内平开门立面图……39
外平开门立面图……42
推拉门立面图……45

安装节点图

基本门窗安装节点图……51
基本窗与节能墙体(带外保温)安装节点图……54
组合窗拼接安装节点图……57

门窗构造示意图

60F内平开窗构造图……58
60外平开窗构造图……59
88推拉窗构造图……60
60内平开门构造图……61
60F外平开门构造图……62
62推拉门构造图……63

相关技术资料页

总　说　明

1　编制依据

1.1 根据建设部建设[1998]13号文“关于印发《一九九八年国家建筑标准设计编制工作计划》的通知”进行编制的。

1.2 依据的标准、规范:

《未增塑聚氯乙烯（PVC-U）塑料门》	JG/T 180
《未增塑聚氯乙烯（PVC-U）塑料窗》	JG/T 140
《塑料门窗安装及验收规程》	JGJ 103
《门窗用未增塑聚氯乙烯（PVC-U）型材》	GB/T 8814
《民用建筑节能设计标准（采暖居住建筑部分）》	JGJ 26
《公共建筑节能设计标准》	GB 50189
《夏热冬冷地区居住建筑节能设计标准》	JGJ 134
《夏热冬暖地区居住建筑节能设计标准》	JGJ 75
《既有采暖居住建筑节能改造技术规程》	JGJ 129
《民用建筑隔声设计规范》	GBJ 118
《建筑物防雷设计规范》（2000版）	GB 50057
《建筑外窗抗风压性能分级及检测方法》	GB 7106
《建筑玻璃应用技术规程》	JGJ 113
《建筑门窗术语》	GB 5823
《建筑门窗洞口尺寸系列》	GB 5824
《建筑装饰装修工程质量验收规范》	GB 50210
《建筑采光设计标准》	GB/T 50033

2　适用范围

本图集适用于民用建筑和一般工业建筑的普通门窗。

3　图集内容

3.1 门窗索引立面示意图;

3.2 基本门窗安装节点图、组合窗拼接安装节点;

3.3 内外平开窗、内外平开门、推拉门、推拉窗的基本构造节点示意图,供设计人员参考。

4　设计规定

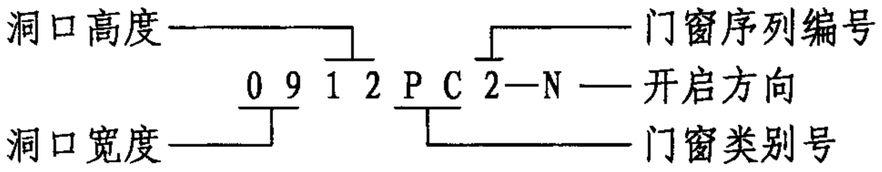
4.1 未增塑聚氯乙烯塑料门窗是由塑料型材内腔加装增强型钢，经焊接加工制成的，主要包括平开窗、推拉窗、上悬窗、下悬组合窗、推拉组合窗、平开门、推拉门等,其名称与代号见表4.1 规定:

表4.1　门窗代号

名称	代号	名称	代号
平开	P	内开	N
推拉	T	外开	W
悬窗	X	上悬	U
窗	C	下悬	D
门	M	上推	U
组合	Z	下推	D

4.2 标记与示例

4.2.1 基本门窗标记方法



例如：0912PC2-N表示洞口宽为0.9m、高为1.2m内向平开窗。

4.2.2 组合门窗表示方法

例如：2412PC-Z表示洞口宽为2.4m、高为1.2m组合平开窗。

4.3 基本门窗和组合门窗的洞口尺寸应符合《建筑门窗洞口尺寸系列》GB 5824的要求。门窗构造尺寸由门窗生产厂家按建筑工程实际需要进行调整。

4.4 基本门窗是以单樘构件组合而成。组合门窗是以单樘门窗加拼樘料组合而成的条窗、带窗以及门连窗等。

4.5 门窗系列是以门框、窗框的型材系列尺寸区分。

4.6 门窗外立面图均为由室外向室内立视，门窗的五金配件由厂家配置。

4.7 本图集的尺寸单位均为毫米（mm），线密度单位为千克每米（kg/m）。

4.8 门窗设计应遵守现行国家标准与行业标准的规定。

5 物理性能指标

门窗的差异性主要表现在型材及五金配件、组装加工的精密程度、物理性能的等级、型材表面的处理等方面。门窗的物理性能应根据工程所在地区、工程性质和工程设计的具体要求，按建筑外窗（门）的抗风压性能、气密性、水密性、保温性、隔声性能及采光性能六大性能指标选用，具体见表5-1～表5-6。

表5-1 建筑外窗（门）抗风压性能分级表

分级代号	1	2	3	4	5	6	7	8	* · *
P_3 (kPa)	1.0≤ P_3< 1.5	1.5≤ P_3< 2.0	2.0≤ P_3< 2.5	2.5≤ P_3< 3.0	3.1≤ P_3< 3.5	3.5≤ P_3< 4.0	4.0≤ P_3< 4.5	4.5≤ P_3< 5.0	P_3≥ 5.0

注：表中* · *表示用≥5.0 kPa 的具体值取代分级代号。

表5-2 建筑外窗（门）气密性能分级表

分级代号	3	4	5
单位缝长分级指标值q_1 [m^3 /（m · h）]	2.5≥ q_1> 1.5	1.5≥ q_1> 0.5	q_1≤ 0.5
单位面积分级指标值q_2 [m^3 /（m^2 · h）]	7.5≥ q_1> 4.5	4.5≥ q_1> 1.5	q_1≤ 1.5

表5-3 建筑外窗（门）水密性能分级表

分级代号	1	2	3	4	5	****
分级指标值ΔP（Pa）	100≤ ΔP< 150	150≤ ΔP< 250	250≤ ΔP< 350	350≤ ΔP< 500	500≤ ΔP< 700	ΔP≥ 700

注：表中****表示用≥700 Pa 的具体值取代分级代号。

表中****级窗适用于热带风暴和台风袭击地区的建筑。

表5-4　建筑外窗（门）保温性能分级表

分级代号	7	8	9	10
分级指标值K [W/(m²·K)]	3.0≥K>2.5	2.5≥K>2.0	2.0≥K>1.5	K≤1.5

表5-5 建筑外窗（门）空气声隔声性能分级表（计权隔声量）

分级代号	2	3	4	5	6
分级指标R_w（dB）	25≤R_w<30	30≤R_w<35	35≤R_w<30	40≤R_w<45	R_w≥45

表5-6　建筑外窗采光性能分级表

分级代号	1	2	3	4	5
分级指标T_r	0.2≤T_r<0.3	0.3≤T_r<0.4	0.4≤T_r<0.5	0.5≤T_r<0.6	T_r≥0.6

6　技术要求

6.1 门窗型材选用应符合《门窗用未增塑聚氯乙烯(PVC-U)型材》GB/T 8814的规定。

6.2 门窗所用的增强型钢应符合《碳素结构钢和低合金结构钢热轧厚钢板和钢带》GB/T 3274和《通用冷弯开口型钢尺寸、外形重量及允许偏差》GB/T 6723的规定。

6.3 窗用密封条应符合《建筑门窗用密封胶条》JG/T 187规定。

6.4 门窗所用玻璃主要采用单层玻璃、中空玻璃和夹层玻璃。单层玻璃厚度为4mm、5mm、6mm、8mm；夹层玻璃厚度为4mm+4mm、5mm+5mm、6mm+6mm；中空玻璃厚度为4mm+A+4mm、5mm+A+5mm、6mm+A+6mm（A=6mm、9mm、12mm、15mm）。玻璃的安装应符合《建筑玻璃应用技术规程》JGJ 113的规定。当采用镀膜玻璃时，镀膜玻璃应装在玻璃的最外层，单面镀膜层应朝向室内。

6.5 门窗的力学性能应符合《未增塑聚氯乙烯（PVC-U）塑料门》JG/T 180和《未增塑聚氯乙烯（PVC-U）塑料窗》JG/T 140的要求。具体见表6.6-1～6.6-4。

6.6 门窗表面应光洁、无气泡和裂缝，门窗框装饰表面不应有明显的损伤，能在-40℃～70℃的环境温度下正常使用。应用彩色共挤和彩色覆膜等先进的表面装饰技术，具有很强的装饰性。

6.7 门窗构件按《建筑防雷设计规范》GB 50057（2000年版）规定与主体结构的防雷系统连接。

6.8 门窗产品的尺寸允许偏差应符合《未增塑聚氯乙烯(PVC-U)塑料门》JG/T 180和《未增塑聚氯乙烯(PVC-U)塑料窗》JG/T 140的要求。

7.　安装施工

7.1 门窗应采用预留洞口法安装，不能直接与水泥砂浆接触，应按《塑料门窗安装及验收规程》JGJ 103的规定施工。

7.2 门窗框与洞口之间的间隙内腔应采用发泡聚氨酯、闭孔泡沫塑料、发泡聚苯乙烯等弹性材料分层填塞，填塞不宜过紧。对于保温、隔声等级要求较高的工程，应采用相应的隔热、隔声材料填塞。填塞后，撤掉临时固定用木楔或垫块，其空隙也应用闭孔弹性材料填塞。

7.3 门窗与墙体通过窗附框和连接件与墙体相连接；连接件焊接连接，适用于钢结构；连接件射钉连接，适用于钢筋混凝土墙体；连接件金属膨胀螺栓连接，适用于钢筋混凝土墙体或砖墙；连接件与预埋件连接，适用于钢筋混凝土和轻质墙体。

表6.6-1　推拉窗的力学性能

项目	技术要求			
开关力	推拉窗	不大于100N	上下推拉窗	不大于135N
弯曲	在300N力作用下，允许有不影响使用的残余变形，试件不损坏，仍保持使用功能			
扭曲	在200N作用力下，允许有不影响使用的残余变形，试件不损坏			
开关疲劳	经不少于10000次的开关试验，试件及五金配件不损坏，其固定处及玻璃压条不松脱			
焊接角破坏力	窗框焊接角的最小破坏力计算值不应小于2500N，窗扇焊接角的最小破坏力计算值不应小于1400N，且实测值均应大于计算值			

注：无凸出把手的推拉窗不做扭曲试验。

表6.6-2　推拉门的力学性能

项目	技术要求
开关力	不大于100N
弯曲	在300N力作用下，允许有不影响使用的残余变形，试件不损坏，仍保持使用功能
扭曲	在200N 作用力下，允许有不影响使用的残余变形，试件不损坏
开关疲劳	经不少于100000次的开关试验，试件及五金配件不损坏，其固定处及玻璃压条不松脱
焊接角破坏力	门框焊接角的最小破坏力计算值不应小于3000N，门扇焊接角的最小破坏力计算值不应小于4000N，且实测值均应大于计算值
软物撞击	无破损，开关功能正常
硬物撞击	无破损

注：无凸出把手的推拉门不做扭曲试验。全玻门不检测软、硬物撞击性能。

表6.6-3 平开门、平开下悬门、推拉下悬门的力学性能

项目	技术要求
锁紧器(执手)开关力	不大于100N（力矩不大于10N·m）
开关力	不大于80N
悬端吊重	在500N作用力下，残余变形不大于2mm，试件不损坏，仍保持使用功能
翘曲	在300N作用力下，允许有不影响使用的残余变形，试件不损坏，仍保持使用功能
开关疲劳	经不少于100000次的开关试验，试件及五金配件不损坏，其固定处及玻璃压条不松脱，仍保持使用功能
大力关闭	经模拟7级风连续开关10次，试件不损坏，仍保持开关功能
焊接角破坏力	门框焊接角的最小破坏力的计算值不应小于3000N，门扇焊接角的最小破坏力的计算值不应小于6000N，且实测值均应大于计算值
垂直荷载强度	对门扇施加30kg荷载，门扇卸荷后的下垂量不应大于2mm
软物撞击	无破损，开关功能正常
硬物撞击	无破损

注：1. 垂直荷载强度适用于平开门、地弹簧门。
2. 全玻门不检测软、硬物撞击性能。

表6.6-4 平开窗、平开下悬窗、上悬窗、中悬窗、下悬窗的力学性能

项目	技术要求			
锁紧器(执手)的开关力	不大于80N（力矩不大于10N·m）			
开关力	平合页	不大于80N	摩擦铰链	不小于30N 不大于80N
悬端吊重	在500N作用力下，残余变形不大于2mm，试件不损坏，仍保持使用功能			
翘曲	在300N作用力下，允许有不影响使用的残余变形，试件不损坏，仍保持使用功能			
开关疲劳	经不少于10000次的开关试验，试件及五金配件不损坏，其固定处及玻璃压条不松脱，仍保持使用功能			
大力关闭	经模拟7级风连续开关10次，试件不损坏，仍保持开关功能			
焊接角破坏力	窗框焊接角的最小破坏力的计算值不应小于2000N，窗扇焊接角的最小破坏力的计算值不应小于2500N，且实测值均应大于计算值			
窗撑试验	在200N力作用下，不允许位移，连接处型材不破裂			
开启限位装置(制动器)受力	在10N力作用下，开启10次，试件不损坏			

注：大力关闭只检测平开窗和上悬窗。

7.4 门窗固定用连接件尺寸应不小于140mm×20mm×1.5mm（长×宽×厚），焊接板尺寸应不小于80mm×80mm×5mm（长×宽×厚），金属膨胀螺栓应不小于M6mm×65mm，射钉应不小于3.7mm×42mm。

7.5 门窗固定片的位置应距窗角、中竖框、中横框150～200mm，固定片之间的间距应小于或等于600mm，不得将固定片直接安装在中横框、中竖框的挡头上。

7.6 窗的构造尺寸应包括预留洞口与待安装窗框的间隙及墙体饰面材料的厚度，其间隙应符合表7.6的规定。

表7.6 洞口与门窗框缝隙

墙体饰面材料	洞口与窗框间隙（mm）
清水墙	≤15
水泥砂浆马赛克	15～20
贴釉面瓷砖	20～25
贴大理石或花岗岩板	40～50
外保温墙体	保温板厚度+10

7.7 门窗抹灰工程及滴水线应按《建筑装饰装修工程质量验收规范》GB 50210中的相关规定进行验收。

8 本图集的参编单位

大连实德集团有限公司

哈尔滨中大化学建材有限公司

塑料门窗性能指标（实德）

序号	型材系列	隔声性能		保温性能		抗风压性能		水密性		气密性			玻璃构成（mm）	窗框窗洞面积比（%）
		指标（dB）	等级	指标 K [W/(m²·K)]	等级	指标（kPa）	等级	指标（Pa）	等级	指标q_1 [m³/（m·h）]	指标q_2 [m³/（m²·h）]	等级		
1	60系列平开窗	32	3	1.9	9	5.0	8	333	3	0.42	1.62	4	4+12A+4	43
2	60C系列平开窗	30	3	1.9	9	4.9	8	300	3	0.41	1.58	4	4+12A+4	44
3	65系列平开窗	32	3	2.0	8	4.6	8	400	4	0.45	1.41	5	5+9A+5	44
4	70系列平开窗	36	4	1.7	9	4.7	8	433	4	0.43	1.40	5	5+12A+4+9A+4	45
5	88系列推拉窗	26	2	2.2	8	2.1	3	250	3	1.21	3.83	4	4+12A+4	31
6	95系列推拉窗	25	2	2.1	8	2.9	4	250	3	1.74	4.34	4	4+12A+4	31
7	60系列平开门	30	3	2.1	8	4.7	8	270	3	1.05	3.28	4	4+12A+4	41
8	62系列推拉门	25	2	2.2	8	3.2	5	220	2	1.43	3.83	4	4+12A+4	38

注：1. 60、60C、65、70系列平开窗为1170mm×1470mm，上带300mm亮子内对开窗；
2. 88、95系列推拉窗为1470mm×1470mm双推拉窗；
3. 60系列平开门为870mm×2070mm内开门；
4. 62系列推拉门为1470mm×1870mm双推拉门；
5. 窗选用壁厚1.5mm增强型钢，门选用壁厚2.0mm增强型钢；
6. 测试地点：国家建筑工程质量监督检验中心。

塑料门窗性能指标（中大）

序号	型材系列	隔声性能		保温性能		抗风压性能		水密性		气密性			玻璃构成（mm）	窗框窗洞面积比（%）
		指标（dB）	等级	指标 K [W/(m²·K)]	等级	指标（kPa）	等级	指标（Pa）	等级	指标 q_1 [m³/（m·h）]	指标 q_2 [m³/（m²·h）]	等级		
1	60F系列平开窗	30	3	2.1	8	4.9	8	420	4	0.4	1.2	5	4+12A+4	32
2	60G系列平开窗	30	3	2.1	8	4.7	8	390	3	0.5	1.5	5	4+12A+4	31
3	66C系列平开窗	36	4	1.7	9	5.0	8	450	4	0.6	1.0	4	4+12A+4+12A+4	31
4	60F系列平开门	36	4	2.0	8	4.7	8	270	3	1.0	1.4	4	4+9A+4+9A+4	44
5	60G系列平开门	36	4	2.0	8	4.6	8	270	3	1.0	1.4	4	4+9A+4+9A+4	44
6	66C系列平开门	36	4	1.9	9	4.9	8	450	4	0.9	1.9	4	4+12A+4+12A+4	46

注：1. 60F、60G、66C系列平开窗为1500mm×1500mm，无上亮子，单开扇，开启扇宽度600mm；
2. 60F、60G、66C系列平开门为900mm×2000mm，无上亮子，单开扇，开启宽度900mm；
3. 窗选用壁厚1.5mm增强型钢，门选用壁厚2.0mm增强型钢；
4. 测试地点：黑龙江哈尔滨产品质量监督检验所。

门窗性能指标									图集号	07J604
审核	褚 波		校对	程先胜		设计	宗小丹		页	7

系列门窗特点

序号	型材系列	门窗品种	门　窗　特　点
1	60平开窗系列	固定窗、内平开窗、外平开窗、内平开下悬窗、上悬窗	主型材三腔结构，具有独立排水腔；可安装平开纱扇；可安装单层玻璃、双层中空玻璃，玻璃安装的最大构造尺寸为24mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接，连接材设计有挡水筋及密封胶条结构，使成窗后具有高水密性和气密性；可生产彩色型材
2	60C平开窗系列	固定窗、内平开窗、内平开下悬窗	主型材四腔结构，流线型外观设计；采用框扇半错开式设计，设计有小辟水点，提高排水性能；可安装平开纱扇；可安装双层中空玻璃、三层中空玻璃，玻璃安装的最大构造尺寸为32mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接；可生产彩色型材
3	65平开窗系列	固定窗、三密封内平开窗、双密封内平开窗、三密封外平开窗、三密封内平开下悬窗、双密封内平开下悬窗、三密封上悬窗	主型材四腔结构，流线型外观设计；采用框扇半错开式设计，三保险式排水设计，提高排水性能；独特的三密封设计提高五金件寿命及成窗性能；可安装平开纱扇；可安装双层中空玻璃、三层中空玻璃，玻璃安装的最大构造尺寸为37mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接；可生产彩色型材
4	70平开窗系列	固定窗、内平开窗、内平开下悬窗	主型材五腔高节能结构，流线型外观设计；可安装平开纱扇；可安装双层中空玻璃、三层中空玻璃，玻璃安装的最大构造尺寸为40mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接；可生产彩色型
5	88推拉窗系列	固定窗、推拉窗	主型材四腔结构，框扇均具有独立排水腔，推拉框纱扇轨道可安装铝合金扣件，提高了成窗的水密性；设计成高、中、经济型不同档次，满足不同客户需要；可安装单层玻璃、双层中空玻璃，玻璃安装的最大构造尺寸为20mm；推拉封盖、盖帽设计有软硬共挤胶条，提高成窗气密性、水密性；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接，连接材设计有挡水筋及密封胶条结构，使成窗后具有高水密性和气密性；可生产彩色型材
6	95推拉窗系列	固定窗、推拉窗	除框型材外均可通用；主型材四腔结构，框扇均具有独立排水腔；可安装推拉纱扇；可安装单层玻璃、双层中空玻璃，玻璃安装的最大构造尺寸为20mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接；可生产彩色型材
7	60平开门系列	平开门	主型材三腔结构，具有独立排水腔；可安装平开纱扇；可采用铝塑复合门下槛制作无槛平开门；可安装单层玻璃、双层中空玻璃、三层中空玻璃及门芯板，玻璃或门芯板最大构造尺寸为32mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接；可生产彩色型材
8	62推拉门系列	推拉门	主型材三腔结构，具有独立排水腔，可与77、95系列配套使用；可安装推拉纱扇，纱扇外置；可安装单层玻璃、双层中空玻璃及门芯板，玻璃或门芯板最大构造尺寸为20mm；通用连接材可组成90°、135°、180°普通型和180°加强型连接及任意角度连接；可生产彩色型材

注：本表根据大连实德集团有限公司提供的资料编制。

系列门窗特点

序号	型材系列	门窗品种	门　窗　特　点
1	60F平开窗系列	固定双玻窗、固定三玻窗、双玻双密封内平开窗、三玻双密封内平开窗、双玻双密封内平开下悬窗、三玻双密封内平开下悬窗	主型材为三腔、双玻或三玻、双密封结构设计，可满足窗的保温、隔声性能要求。主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接。辅助型材均有保温腔设计，适用于严寒、寒冷地区节能窗；还可安装平开纱扇。采用标准化和系列化功能槽口设计，与辅助型材配套，可放大门窗的使用功能；可生产共挤、覆膜、覆铝彩色型材
2	60G平开窗系列	固定双玻窗、固定三玻窗、双玻双密封内平开窗、三玻双密封内平开窗、双玻双密封内平开下悬窗	主型材为四腔、双玻或三玻、双密封结构设计，可提高门窗的保温、隔声性能要求；玻璃安装的构造尺寸为20mm、31mm，可安装双玻和三玻中空玻璃。主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接，辅助型材均有保温腔设计，适用于严寒、寒冷地区节能窗，还可安装平开纱扇。采用标准化和系列化功能槽口设计，与辅助型材配套，可放大门窗的使用功能；可生产共挤、覆膜、覆铝彩色型材
3	66C平开窗系列	固定三玻窗、三玻三密封内平开窗、三玻三密封内平开下悬窗	主型材为五腔、三玻、三密封结构设计，可进一步提高窗的保温、隔声性能要求；玻璃安装的构造尺寸为37mm；可安装三玻中空玻璃。主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接，辅助型材均有保温腔设计，适用于严寒、寒冷地区节能窗；还可安装平开纱扇。采用欧洲标准五金件槽口设计，适用于各类标准的内平开、内平开下悬五金件；采用标准化和系列化功能槽口设计，与辅助型材配套，可放大窗的使用功能；可生产共挤、覆膜、覆铝彩色型材
4	60F平开门系列	双玻双密封外开门、外平开下悬门、三玻双密封外开门、外平开下悬门	主型材为三腔、双玻或三玻、双密封结构设计，可满足门的保温、隔声性能要求；玻璃安装的构造尺寸为20mm、31mm；可安装双玻和三玻中空玻璃。主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接，辅助型材均有保温腔设计，适用于严寒、寒冷地区节能门；采用欧洲标准五金件槽口设计，适用于各类标准的内平开、内平开下悬五金件；采用标准化和系列化功能槽口设计，与辅助型材配套，可放大门的使用功能；可生产共挤、覆膜、覆铝彩色型材
5	60G平开门系列	双玻双密封外开门、外平开下悬门、三玻双密封外开门、外平开下悬门	主型材为三腔、双玻或三玻、双密封结构设计，可满足门窗的保温、隔声性能要求；玻璃安装的构造尺寸为20mm、31mm；可安装双玻和三玻中空玻璃。主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接，辅助型材均有保温腔设计，适用于严寒、寒冷地区节能门。采用欧洲标准五金件槽口设计，适用于各类标准的内平开、内平开下悬五金件；采用标准化和系列化功能槽口设计，与辅助型材配套，可放大门的使用功能；可生产共挤、覆膜、覆铝彩色型材
6	66C平开门系列	三玻三密封外开门、外平开下悬门	主型材为五腔、三玻、三密封结构设计，可进一步提高门的保温、隔声性能要求；玻璃安装构造尺寸为37mm，可安装三玻中空玻璃；主型材与辅助型材连接可组成90°、135°、180°及任意角度普通型组合，还可做180°增强连接，辅助型材均有保温腔设计，适用于严寒、寒冷地区节能门。采用欧洲标准五金件槽口设计，适用于各类标准内平开、内平开下悬五金件；采用标准化和系列化功能槽口设计，与辅助型材配套，可放大门的使用功能；可生产共挤、覆膜、覆铝彩色型材

注：本表根据哈尔滨中大化学建材有限公司提供的资料编制。

洞口	600	900	1200
600	570 × 570 0606PC-N	870 × 870 0906PC-N	1170 × 1170 1206PC1-N 1206PC2-N
900	570 × 870 0609PC-N	870 × 870 0909PC-N	1170 × 870 1209PC1-N 1209PC2-N
1200	570 × 1170 0612PC-N	870 × 1170 0912PC-N	1170 × 1170 1212PC1-N 1212PC2-N
1400	570 × (400+400+570) 0614PC1-N 0614PC2-N 0614PC3-N	870 × (400+400+570) 0914PC1-N 0914PC2-N 0914PC3-N	1170 × (400+400+570) 1214PC1-N 1214PC2-N 1214PC3-N 1214PC4-N 1214PC5-N 1214PC6-N
1500	570 × (500+500+470) 0615PC1-N 0615PC2-N 0615PC3-N	870 × (500+500+470) 0915PC1-N 0915PC2-N 0915PC3-N	1170 × (500+500+470) 1215PC1-N 1215PC2-N 1215PC3-N 1215PC4-N 1215PC5-N 1215PC6-N
1800	570 × (600+600+570) 0618PC1-N 0618PC2-N	870 × (600+600+570) 0918PC1-N 0918PC2-N	1170 × (600+600+570) 1218PC1-N 1218PC2-N 1218PC3-N 1218PC4-N
2100	570 × (600+600+870) 0621PC1-N 0621PC2-N	870 × (600+600+870) 0921PC1-N 0921PC2-N	1170 × (600+600+870) 1221PC1-N 1221PC2-N 1221PC3-N 1221PC4-N

内平开窗立面图

图集号	07J604
页	10

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

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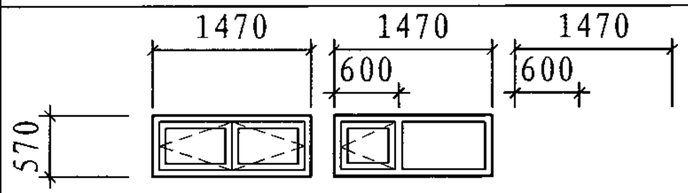
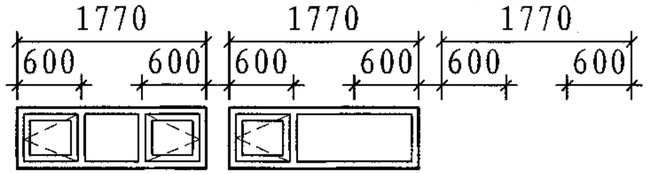
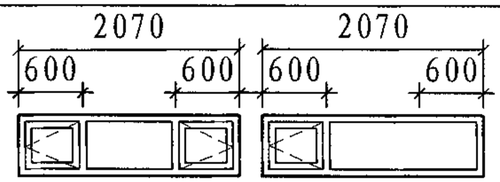
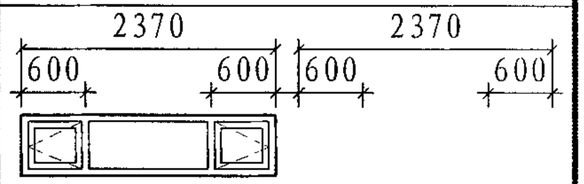
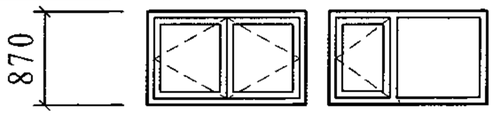
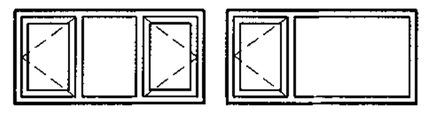
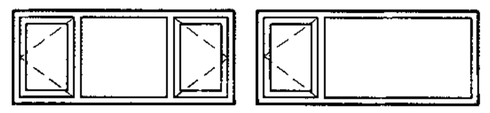
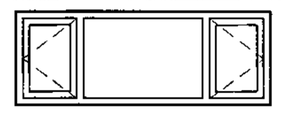
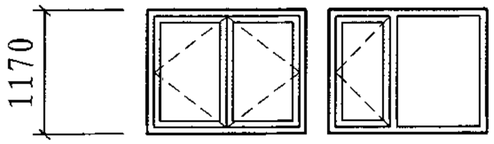
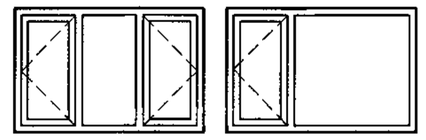
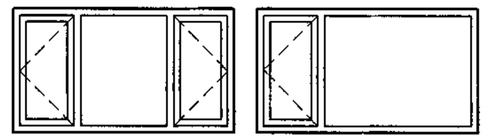
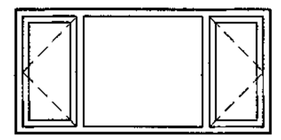
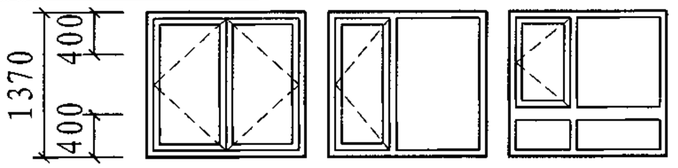
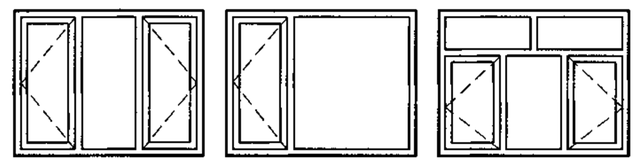
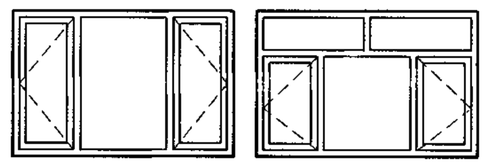
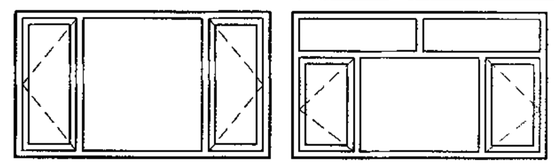
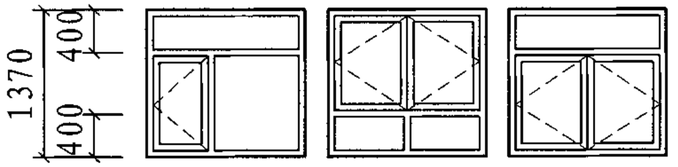
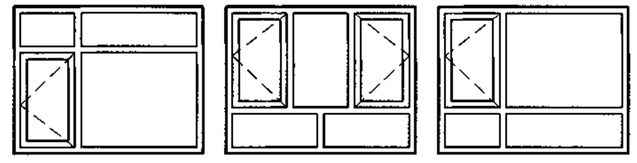
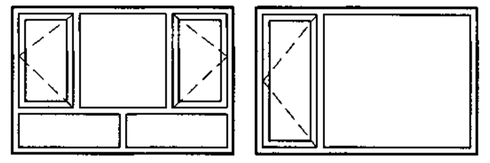
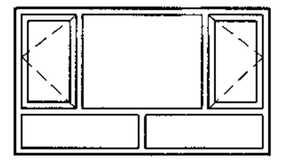
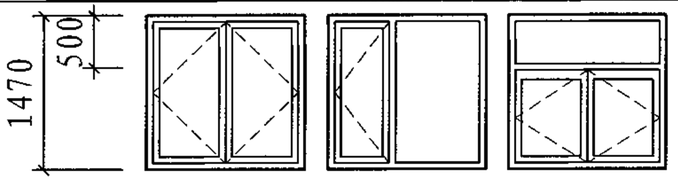
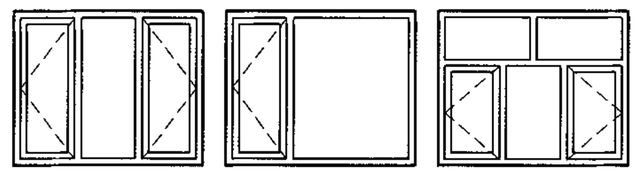
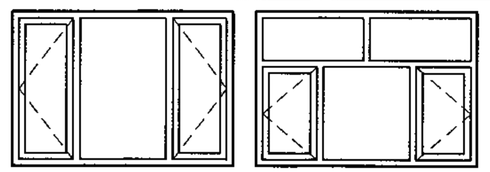
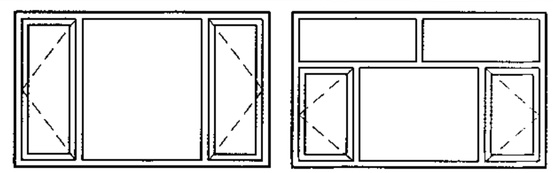
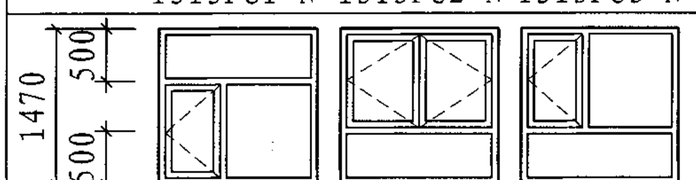
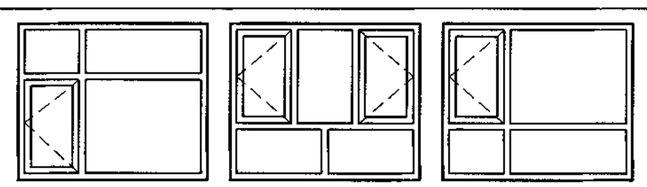
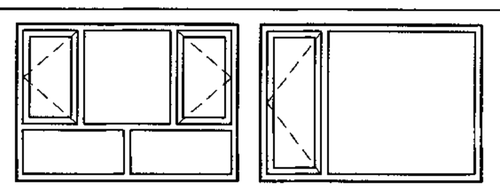
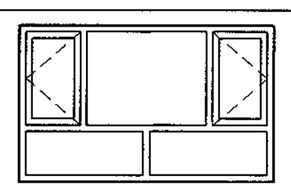
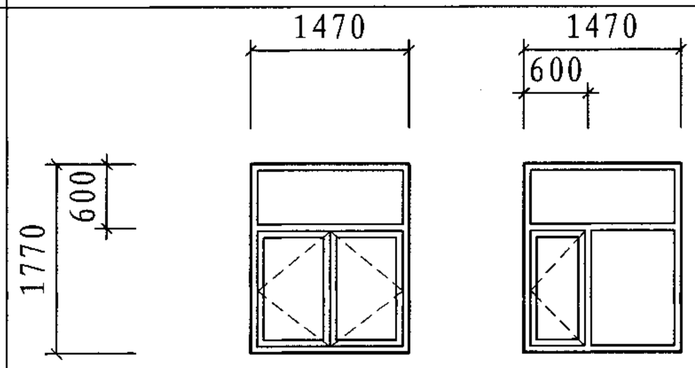
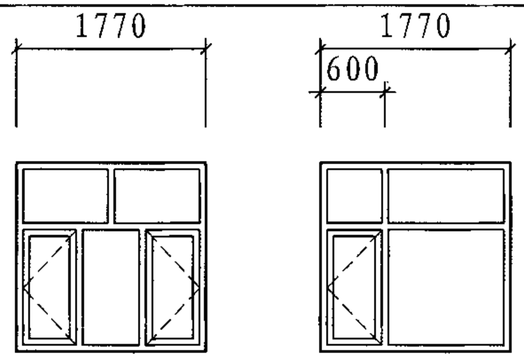
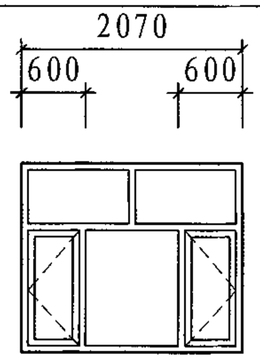
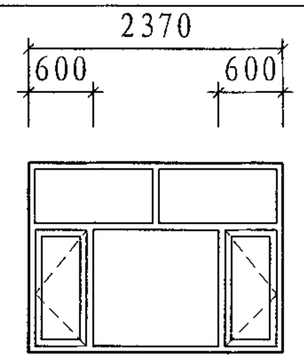
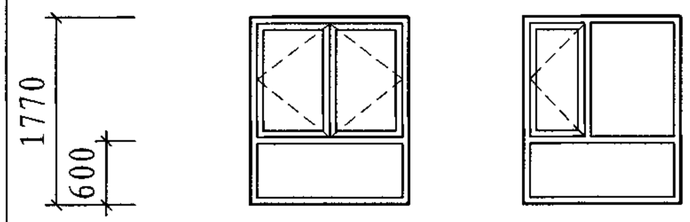
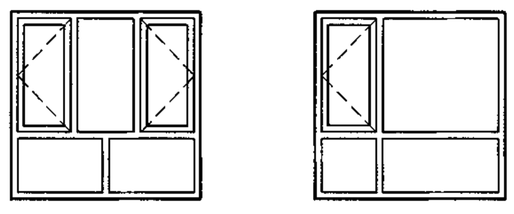
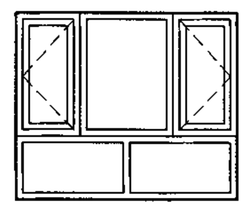
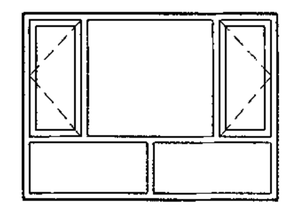
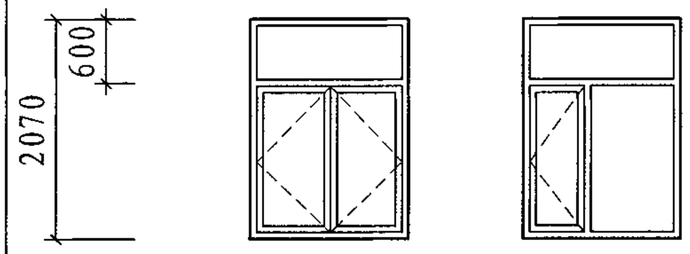
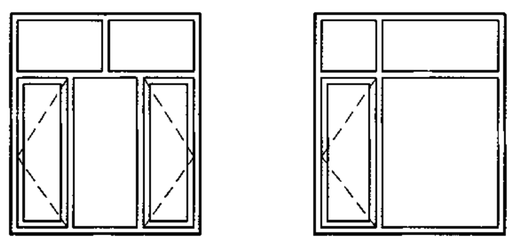
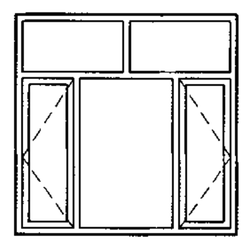
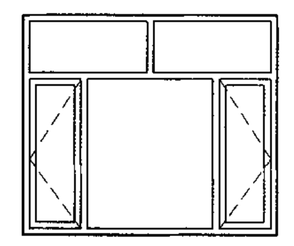
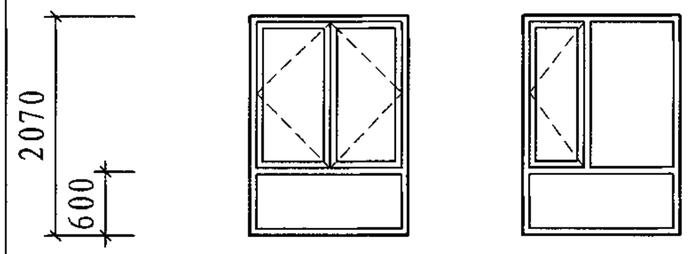
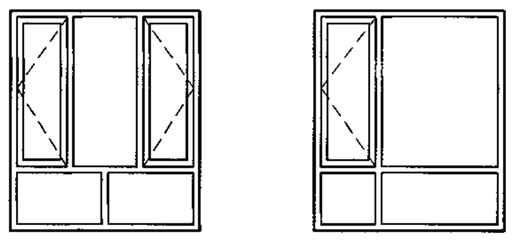
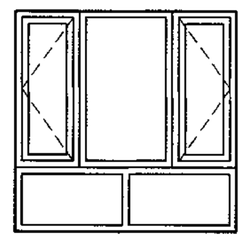
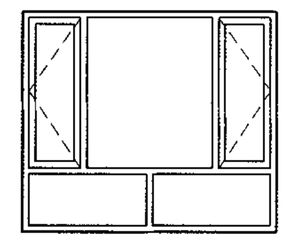
600	 1506PC1-N 1506PC2-N	 1806PC1-N 1806PC2-N	 2106PC1-N 2106PC2-N	 2406PC-N
900	 1509PC1-N 1509PC2-N	 1809PC1-N 1809PC2-N	 2109PC1-N 2109PC2-N	 2409PC-N
1200	 1512PC1-N 1512PC2-N	 1812PC1-N 1812PC2-N	 2112PC1-N 2112PC2-N	 2412PC-N
1400	 1514PC1-N 1514PC2-N 1514PC3-N	 1814PC1-N 1814PC2-N 1814PC3-N	 2114PC1-N 2114PC2-N	 2414PC1-N 2414PC2-N
	 1514PC4-N 1514PC5-N 1514PC6-N	 1814PC4-N 1814PC5-N 1814PC6-N	 2114PC3-N 2114PC4-N	 2414PC3-N
1500	 1515PC1-N 1515PC2-N 1515PC3-N	 1815PC1-N 1815PC2-N 1815PC3-N	 2115PC1-N 2115PC2-N	 2415PC1-N 2415PC2-N
	 1515PC4-N 1515PC5-N 1515PC6-N	 1815PC4-N 1815PC5-N 1815PC6-N	 2115PC3-N 2115PC4-N	 2415PC3-N

内平开窗立面图

图集号	07J604
页	11

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	1500	1800	2100	2400
1800	 1518PC1-N　1518PC2-N	 1818PC1-N　1818PC2-N	 2118PC1-N	 2418PC1-N
	 1518PC3-N　1518PC4-N	 1818PC3-N　1818PC4-N	 2118PC2-N	 2418PC2-N
2100	 1521PC1-N　1521PC2-N	 1821PC1-N　1821PC2-N	 2121PC1-N	 2418PC1-N
	 1521PC3-N　1521PC4-N	 1821PC3-N　1821PC4-N	 2121PC2-N	 2418PC2-N

内平开窗立面图

图集号	07J604
页	12

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	600	900	1200
600	570 570 570 570 0606PC-W	870 870 870 0906PC-W	1170 1170 1170 1170 1170 1170 1206PC1-W 1206PC2-W
900	870 0609PC-W	0909PC-W	1209PC1-W 1209PC2-W
1200	1170 0612PC-W	0912PC-W	1212PC1-W 1212PC2-W
1400	1370 400 400 0614PC1-W 0614PC2-W 0614PC3-W	0914PC1-W 0914PC2-W 0914PC3-W	1214PC1-W 1214PC2-W 1214PC3-W 1214PC4-W 1214PC5-W 1214PC6-W
1500	1470 500 500 0615PC1-W 0615PC2-W 0615PC3-W	0915PC1-W 0915PC2-W 0915PC3-W	1215PC1-W 1215PC2-W 1215PC3-W 1215PC4-W 1215PC5-W 1215PC6-W
1800	1770 600 600 0618PC1-W 0618PC2-W	0918PC1-W 0918PC2-W	1218PC1-W 1218PC2-W 1218PC3-W 1218PC4-W
2100	2070 600 600 0621PC1-W 0621PC2-W	0921PC2-W 0921PC2-W	1221PC1-W 1221PC2-W 1221PC3-W 1221PC4-W

外平开窗立面图

图集号	07J604
页	13

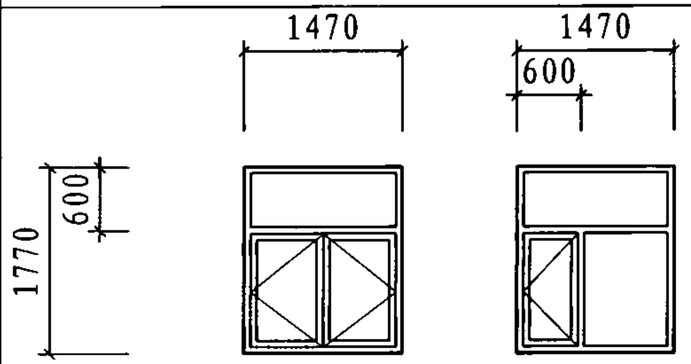
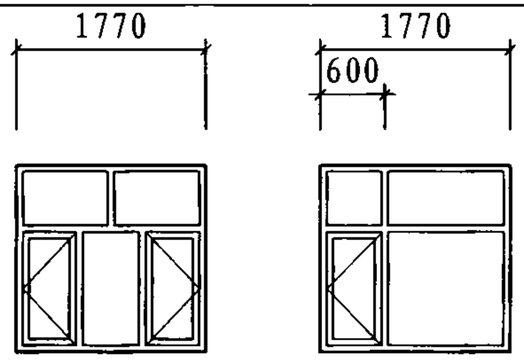
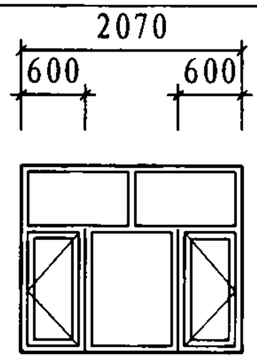
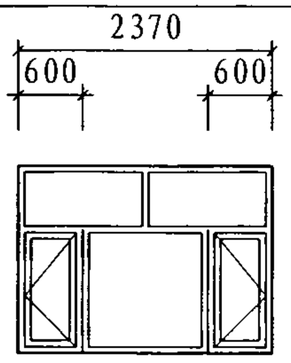
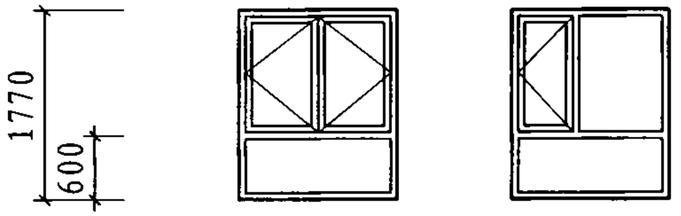
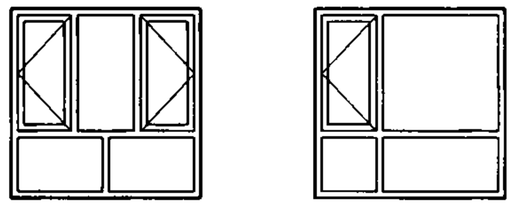
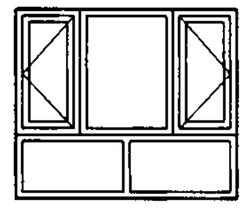
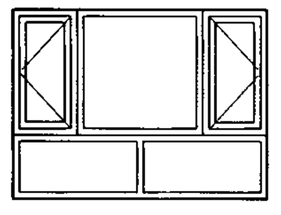
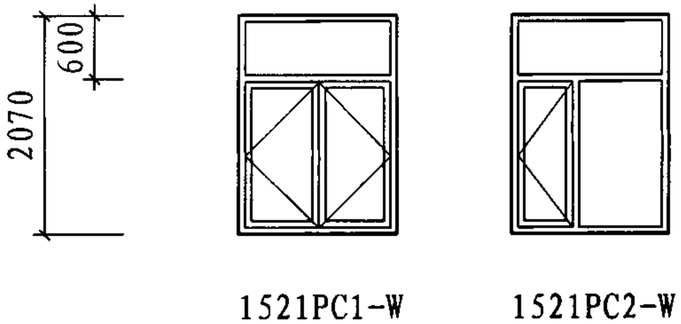
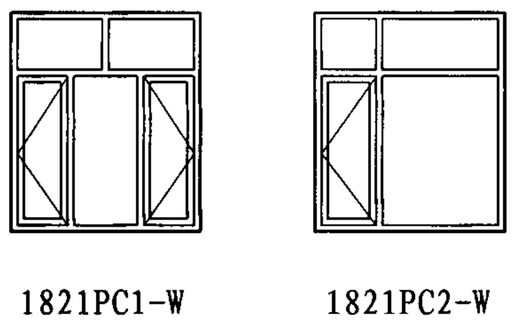
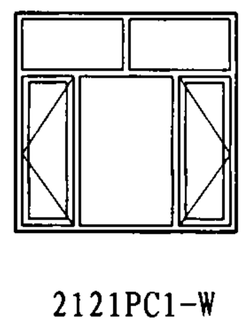
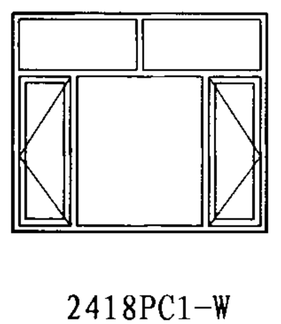
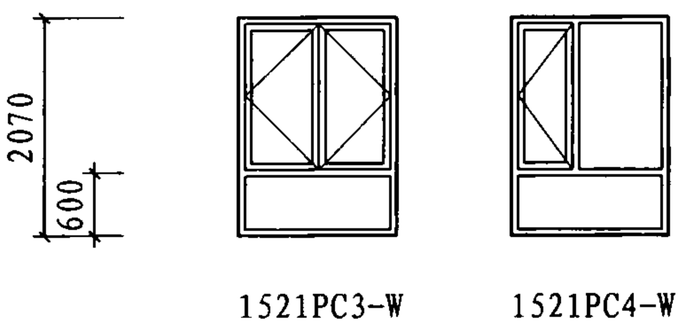
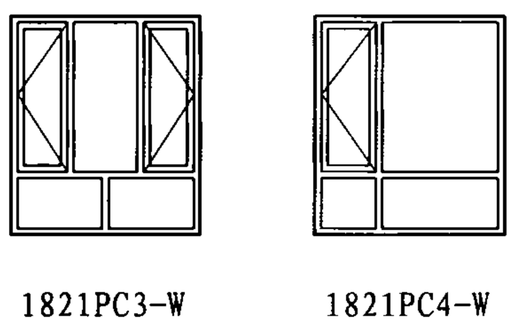
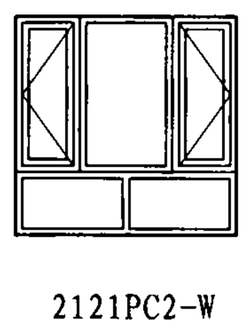
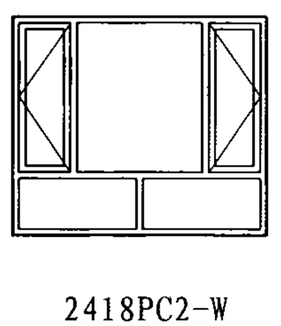
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	1500	1800	2100	2400
600	1506PC1-W 1506PC2-W	1806PC1-W 1806PC2-W	2106PC1-W 2106PC2-W	2406PC-W
900	1509PC1-W 1509PC2-W	1809PC1-W 1809PC2-W	2109PC1-W 2109PC2-W	2409PC-W
1200	1512PC1-W 1512PC2-W	1812PC1-W 1812PC2-W	2112PC1-W 2112PC2-W	2412PC-W
1400	1514PC1-W 1514PC2-W 1514PC3-W	1814PC1-W 1814PC2-W 1814PC3-W	2114PC1-W 2114PC2-W	2414PC1-W 2414PC2-W
	1514PC4-W 1514PC5-W 1514PC6-W	1814PC4-W 1814PC5-W 1814PC6-W	2114PC3-W 2114PC4-W	2414PC3-W
1500	1515PC1-W 1515PC2-W 1515PC3-W	1815PC1-W 1815PC2-W 1815PC3-W	2115PC1-W 2115PC2-W	2415PC1-W 2415PC2-W
	1515PC4-W 1515PC5-W 1515PC6-W	1815PC4-W 1815PC5-W 1815PC6-W	2115PC3-W 2115PC4-W	2415PC3-W

外平开窗立面图

图集号	07J604
页	14

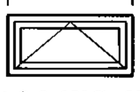
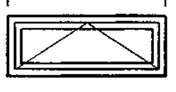
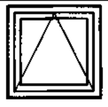
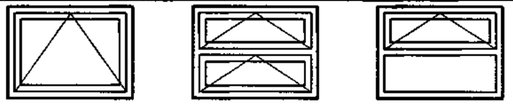
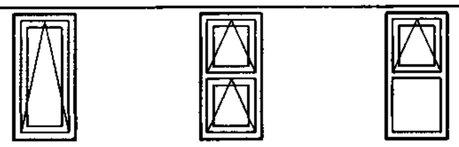
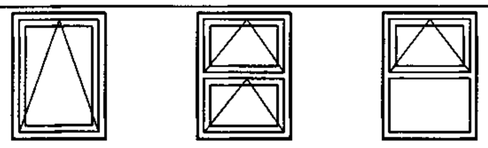
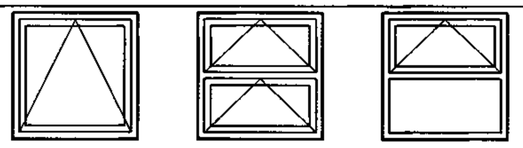
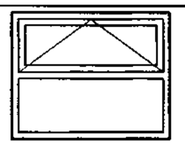
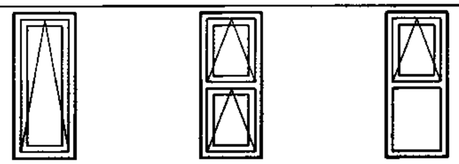
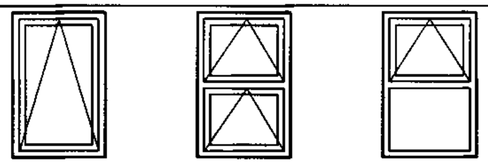
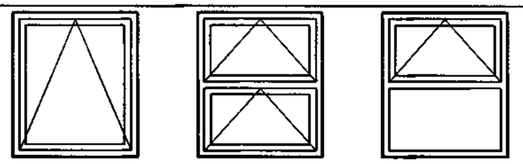
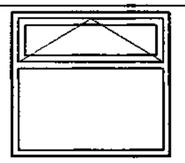
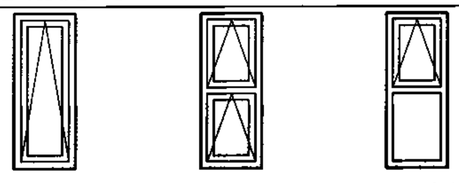
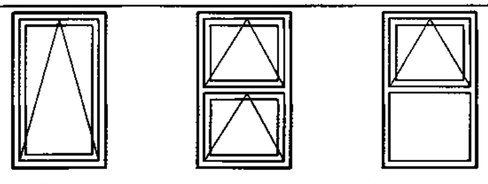
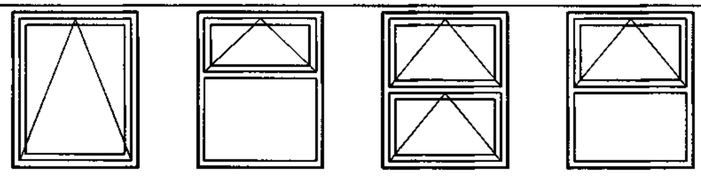
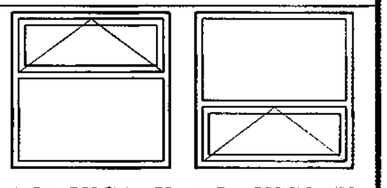
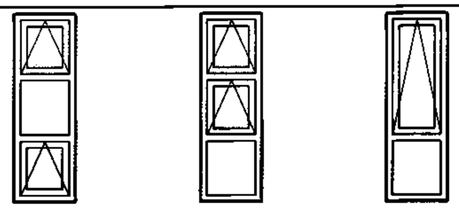
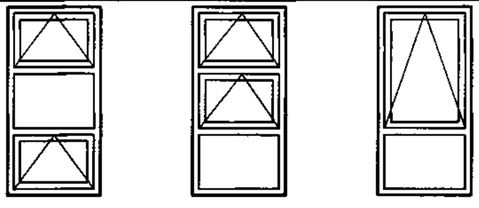
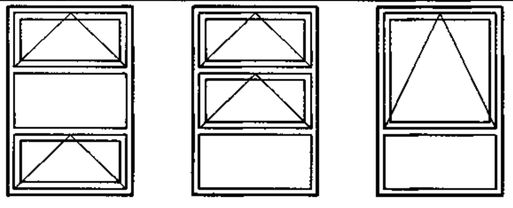
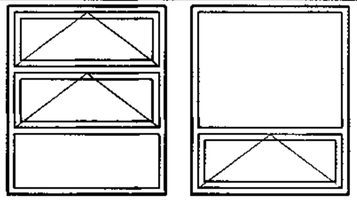
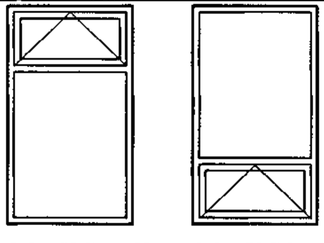
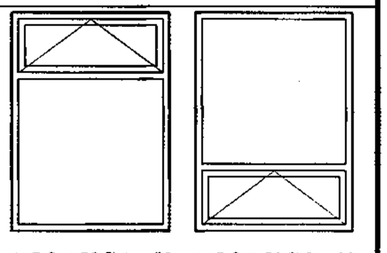
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	1500	1800	2100	2400
1800	 1518PC1-W　1518PC2-W	 1818PC1-W　1818PC2-W	 2118PC1-W	 2418PC1-W
	 1518PC3-W　1518PC4-W	 1818PC3-W　1818PC4-W	 2118PC2-W	 2418PC2-W
2100	 1521PC1-W　1521PC2-W	 1821PC1-W　1821PC2-W	 2121PC1-W	 2418PC1-W
	 1521PC3-W　1521PC4-W	 1821PC3-W　1821PC4-W	 2121PC2-W	 2418PC2-W

外平开窗立面图

图集号	07J604
页	15

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	600	900	1200	1500
600	570 570 570 570 0606XC-U	870 870 870 0906XC-U	1170 1170 1170 1170  1206XC-U	1470 1470  1506XC-U
900	870 0609XC-U	 0909XC-U	 1209XC1-U 1209XC2-U 1209XC3-U	 1509XC-U
1200	1170  0612XC1-U 0612XC2-U 0612XC3-U	 0912XC1-U 0912XC2-U 0912XC3-U	 1212XC1-U 1212XC2-U 1212XC3-U	 1512XC-U
1400	1170 500  0614XC1-U 0614XC2-U 0614XC3-U	 0914XC1-U 0914XC2-U 0914XC3-U	 1214XC1-U 1214XC2-U 1214XC3-U	 1514XC-U
1500	1470 600 600  0615XC1-U 0615XC2-U 0615XC3-U	 0915XC1-U 0915XC2-U 0915XC3-U	 1215XC1-U 1215XC2-U 1215XC3-U 1215XC4-U	 1515XC1-U 1515XC2-U
1800	1770 600  0618XC1-U 0618XC2-U 0618XC3-U	 0918XC1-U 0918XC2-U 0918XC3-U	 1218XC1-U 1218XC2-U 1218XC3-U	 1518XC1-U 1518XC2-U
2100	2070 600 600		 1221XC1-U 1221XC2-U	 1521XC1-U 1521XC2-U

上悬窗立面图

图集号	07J604
页	16

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	600	900	1200			1500		
900	827 × 870	870 × 870	1170 × 870	1170 × 870	1170 × 870	1470 × 870	1470 × 870	1470 × 870
	0609PXC-D	0909PXC-D	1209PXC1-D	1209PXC2-D	1209PXC3-D	1509PXC1-D	1509PXC2-D	1509PXC3-D
1200	1170							
	0612PXC-D	0912PXC-D	1212PXC1-D	1212PXC2-D	1212PXC3-D	1512PXC1-D	1512PXC2-D	1512PXC3-D
1400	1170							
	0614PXC-D	0914PXC-D	1214PXC1-D	1214PXC2-D	1214PXC3-D	1514PXC1-D	1514PXC2-D	1514PXC3-D
1500	1470 (500)							
	0615PXC-D	0915PXC-D	1215PXC1-D	1215PXC2-D	1215PXC3-D	1515PXC1-D	1515PXC2-D	1515PXC3-D
1800	1770 (600)							
		0918PXC-D	1218PXC1-D	1218PXC2-D	1218PXC3-D	1518PXC1-D	1518PXC2-D	1518PXC3-D
2100	2070 (600)							
		0921PXC-D	1221PXC1-D	1221PXC2-D	1221PXC3-D	1521PXC1-D	1521PXC2-D	1521PXC3-D

内平开下悬窗立面图

图集号	07J604
页	17

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	1800			2100		
900	1770 × 870	1770 × 870	1770 × 870	2070 × 870	2070 × 870	2070 × 870
	1809PXC1-D	1809PXC2-D	1809PXC3-D	2109PXC1-D	2109PXC2-D	2109PXC3-D
1200	1770 × 1170	1770 × 1170	1770 × 1170	2070 × 1170	2070 × 1170	2070 × 1170
	1812PXC1-D	1812PXC2-D	1812PXC3-D	2112PXC1-D	2112PXC2-D	2112PXC3-D
1400	1770 × 1370	1770 × 1370	1770 × 1370	2070 × 1370	2070 × 1370	2070 × 1370
	1814PXC1-D	1814PXC2-D	1814PXC3-D	2114PXC1-D	2114PXC2-D	2114PXC3-D
1500	1770 × 1470 (500)	1770 × 1470 (500)	1770 × 1470 (500)	2070 × 1470 (500)	2070 × 1470 (500)	2070 × 1470 (500)
	1815PXC1-D	1815PXC2-D	1815PXC3-D	2115PXC1-D	2115PXC2-D	2115PXC3-D
1800	1770 × 1770 (600)	1770 × 1770 (600)	1770 × 1770 (600)	2070 × 1770 (600)	2070 × 1770 (600)	2070 × 1770 (600)
	1818PXC1-D	1818PXC2-D	1818PXC3-D	2118PXC1-D	2118PXC2-D	2118PXC3-D
2100	1770 × 2070 (600)	1770 × 2070 (600)	1770 × 2070 (600)	2070 × 2070 (600)	2070 × 2070 (600)	2070 × 2070 (600)
	1821PXC1-D	1821PXC2-D	1821PXC3-D	2121PXC1-D	2121PXC2-D	2121PXC3-D

内平开下悬窗立面图

图集号	07J604
页	18

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	900				1200					
	870	870	870	870	1470	1170	1170	1170	1170	1170
600	570									
	0906TC1	0906TC2			1206TC1	1206TC2				
900	870									
	0909TC1	0909TC2			1209TC1	1209TC2				
1200	1170 (400 400)									
	0912TC1	0912TC2	0912TC3	0912TC4	1212TC1	1212TC2	1212TC3	1212TC4	1212TC5	1212TC6
1400	1370 (400 400)									
	0914TC1	0914TC2	0914TC3	0914TC4	1214TC1	1214TC2	1214TC3	1214TC4	1214TC5	1214TC6
1500	1470 (500 500)									
	0915TC1	0915TC2	0915TC3	0915TC4	1215TC1	1215TC2	1215TC3	1215TC4	1215TC5	1215TC6
1800	1770 (600 600)									
	0918TC1	0918TC2	0918TC3	0918TC4	1218TC1	1218TC2	1218TC3	1218TC4		
2100	2070 (600 600)									
	0921TC1	0921TC2	0921TC3	0921TC4	1221TC1	1221TC2	1221TC3	1221TC4		

推拉窗立面图

图集号	07J604
页	19

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	1500								
	1470	1470	1470	1470	1470	1470	1470	1470	1470
			600			500			500
600	570								
	1506TC1	1506TC2	1506TC3						
900	870								
	1509TC1	1509TC2	1509TC3						
1200	1170 (400 400)								
	1512TC1	1512TC2	1512TC3	1512TC4	1512TC5	1512TC6	1512TC7	1512TC8	1512TC9
1400	1370 (400 400)								
	1514TC1	1514YC2	1514TC3	1514TC4	1514TC5	1514TC6	1514TC7	1514TC8	1514TC9
1500	1470 (500 500)								
	1515TC1	1515TC2	1515TC3	1515TC4	1515TC5	1515TC6	1515TC7	1515TC8	1515TC9
1800	1770 (600 600)								
	1518TC1	1518TC2	1518TC3	1518TC4	1518TC5	1518TC6			
2100	2070 (600 600)								
	1521TC1	1521TC2	1521TC3	1521TC4	1521TC5	1521TC6			

推拉窗立面图

图集号	07J604
页	20

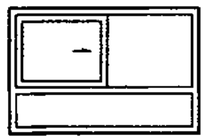
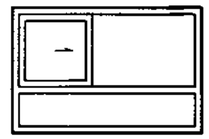
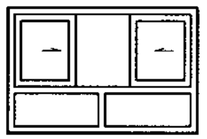
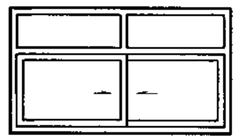
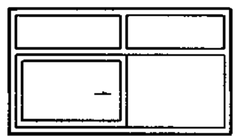
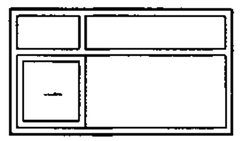
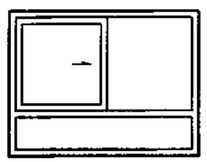
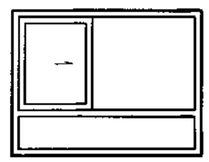
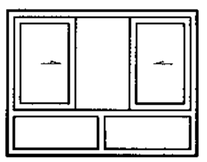
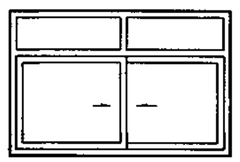
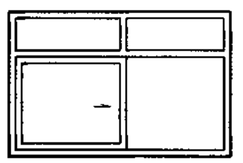
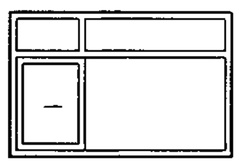
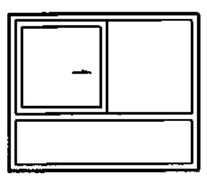
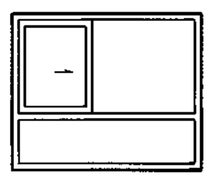
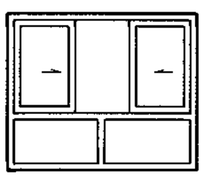
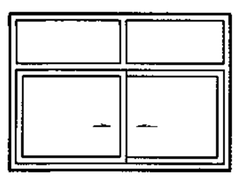
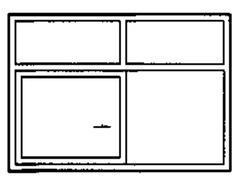
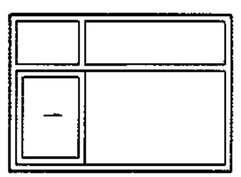
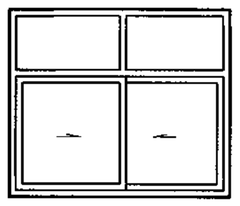
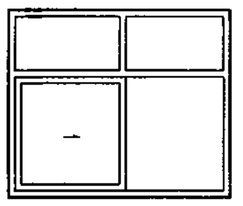
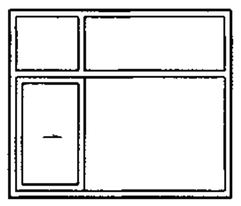
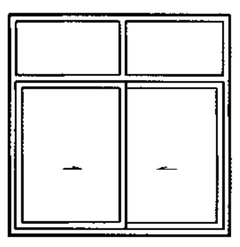
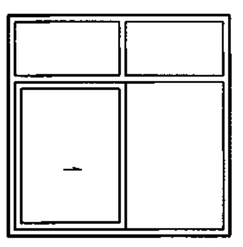
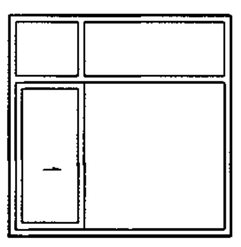
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	1800							
	1770	1770	1770	1770	1770	1770	1770	1770
			750				600	
600	570							
	1806TC1	1806TC2	1806TC3	1806TC4				
900	870							
	1809TC1	1809TC2	1809TC3	1809TC4				
1200	1170 400							
	1812TC1	1812TC2	1812TC3	1812TC4	1812TC5	1812TC6	1812TC7	1812TC8
1400	1370 400							
	1814TC1	1814TC2	1814TC3	1814TC4	1814TC5	1814TC6	1814TC7	1814TC8
1500	1470 500							
	1815TC1	1815TC2	1815TC3	1815TC4	1815TC5	1815TC6	1815TC7	1815TC8
1800	1770 600 600							
	1818TC1	1818TC2	1818TC3	1818TC4	1818TC5	1818TC6	1818TC7	1818TC8
2100	2070 600 600							
	1821TC1	1821TC2	1821TC3	1821TC4	1821TC5	1821TC6	1821TC7	1821TC8

推拉窗立面图

图集号	07J604
页	21

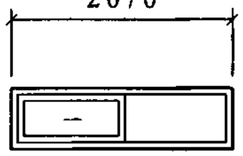
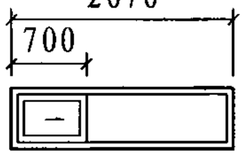
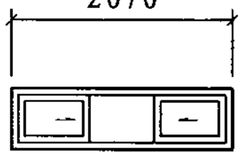
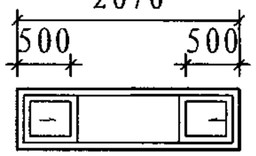
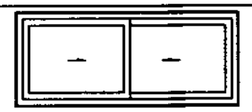
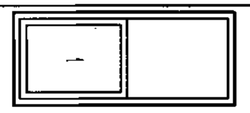
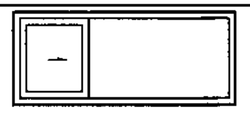
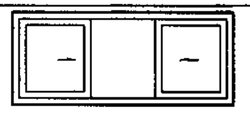
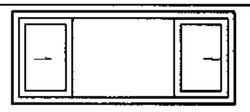
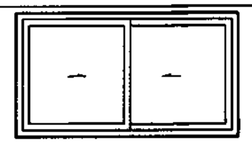
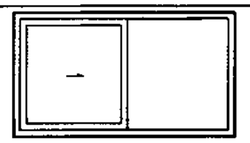
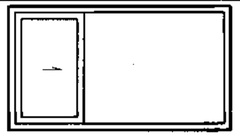
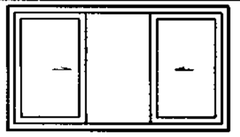
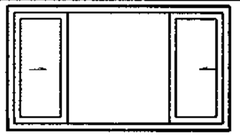
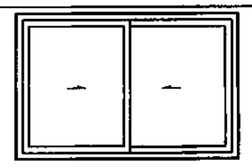
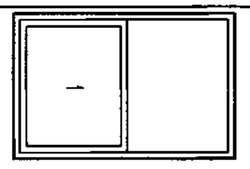
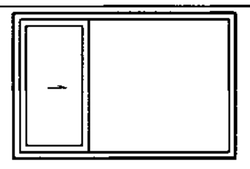
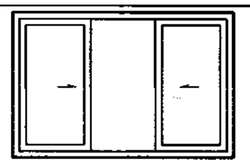
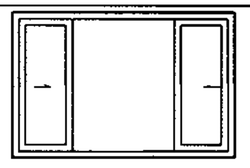
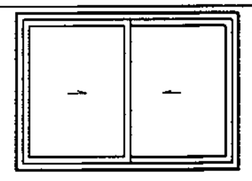
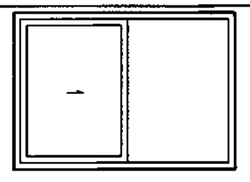
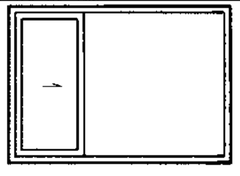
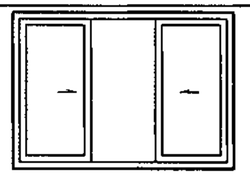
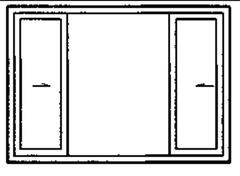
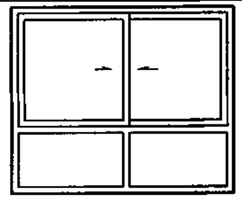
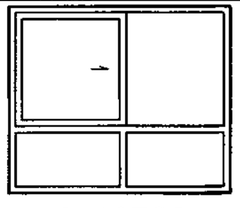
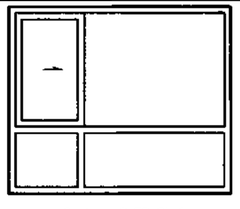
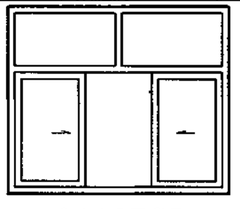
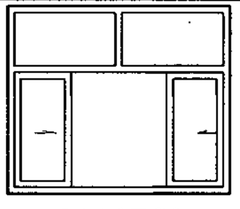
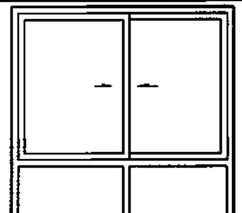
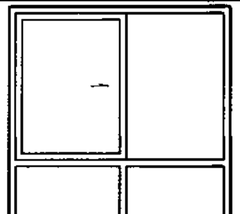
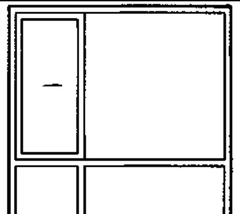
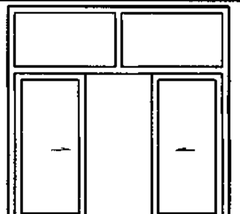
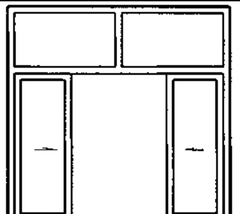
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	1800				2100		
1200	1770 1170 400 400 1812TC9	1770  1812TC10	1770 600  1812TC11	1770  1812TC12	2070  2112TC1	2070  2112TC2	2070 700  2112TC3
1400	1370 400 400 1814TC9	 1814TC10	 1814TC11	 1814TC12	 2114TC1	 2114TC2	 2114TC3
1500	1470 500 500 1815TC9	 1815TC10	 1815TC11	 1815TC12	 2115TC1	 2115TC2	 2115TC3
1800	1770 600 				 2118TC1	 2118TC2	 2118TC3
2100	2070 600 				 2121TC1	 2121TC2	 2121TC3

推拉窗立面图

图集号	07J604
页	22

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2100				
600	2070 540 2106TC1	2070  2106TC2	2070 700  2106TC3	2070  2106TC4	2070 500 500  2106TC5
900	840  2109TC1	 2109TC2	 2109TC3	 2109TC4	 2109TC5
1200	1170  2112TC4	 2112TC5	 2112TC6	 2112TC7	 2112TC8
1400	1370  2114TC4	 2114TC5	 2114TC6	 2114TC7	 2114TC8
1500	1470  2115TC4	 2115TC5	 2115TC6	 2115TC7	 2115TC8
1800	1770 600  2118TC4	 2118TC5	 2118TC6	 2118TC7	 2118TC8
2100	2070 600  2121TC4	 2121TC5	 2121TC6	 2121TC7	 2121TC8

推拉窗立面图

图集号	07J604
页	23

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2100						
1200	2070 1170 (400 / 400)	2070 500 / 500	2070	2070	2070 700	2070	2070 500 / 500
	2112TC9	2112TC10	2112TC11	2112TC12	2112TC13	2112TC14	2112TC15
1400	1370 (400 / 400)						
	2114TC9	2114TC10	2114TC11	2114TC12	2114TC13	2114TC14	2114TC15
1500	1470 (500 / 500)						
	2115TC9	2115TC10	2115TC11	2115TC12	2115TC13	2115TC14	2115TC15
1800	1770 (600 / 600)						
	2118TC9	2118TC10	2118TC11	2118TC12	2118TC13		
2100	2070 (600)						
	2121TC9	2121TC10					

推拉窗立面图

图集号	07J604
页	24

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400					
600	2370	2370	2370 800	2370	2370 600 600	2370
	570					
	2406TC1	2406TC2	2406TC3	2406TC4	2406TC5	2406TC6
900	870					
	2409TC1	2409TC2	2409TC3	2409TC4	2409TC5	2409TC6
1200	1170					
	2412TC1	2412TC2	2412TC3	2412TC4	2412TC5	2412TC6
1400	1370					
	2414TC1	2414TC2	2414TC3	2414TC4	2414TC5	2414TC6
1500	1470					
	2415TC1	2415TC2	2415TC3	2415TC4	2415TC5	2415TC6
1800	600 1770					
	2418TC1	2418TC2	2418TC3	2418TC4	2418TC5	2418TC6
2100	600 2070					
	2421TC1	2421TC2	2421TC3	2421TC4	2421TC5	2421TC6

推拉窗立面图

图集号	07J604
页	25

审核	陈海丰		校对	张集锋		设计	张任巍	

洞口	2400					
1200	2370	2370	2370 800	2370	2370 600 600	2370
	1170 400					
	2412TC7	2412TC8	2412TC9	2412TC10	2412TC11	2412TC12
1400	1370 400					
	2414TC7	2414TC8	2414TC9	2414TC10	2414TC11	2414TC12
1500	1470 500					
	2415TC7	2415TC8	2415TC9	2415TC10	2415TC11	2415TC12
1800	1770 600					
	2418TC7	2418TC8	2418TC9	2418TC10	2418TC11	2418TC12
2100	2070 600					
	2421TC7	2421TC8	2421TC9	2421TC10	2421TC11	2421TC12

推拉窗立面图

图集号	07J604
页	26

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400				2700	
900	870				2709TC1	2709TC2
1200	1170 400	2412TC13	2412TC14	2412TC15	2712TC1	2712TC2
1400	1370 400	2414TC13	2414TC14	2414TC15	2714TC1	2714TC2
1500	1470 500	2415TC13	2415TC14	2415TC15	2715TC1	2715TC2
1800	1770 600 600	2418TC13			2718TC1	2718TC2
2100	2070 600				2721TC1	2721TC2

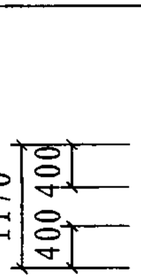
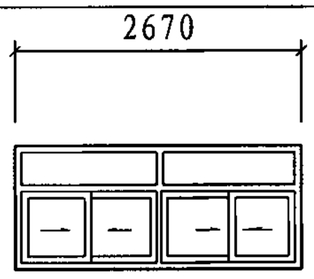
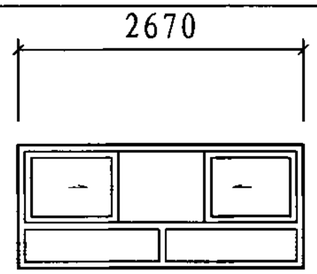
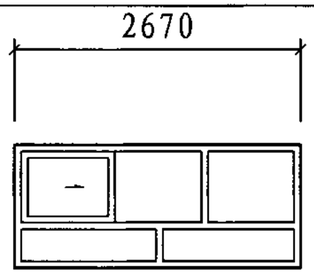
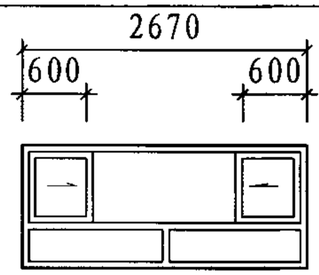
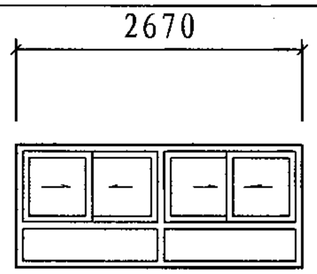
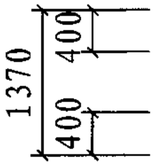
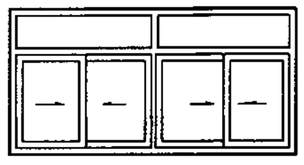
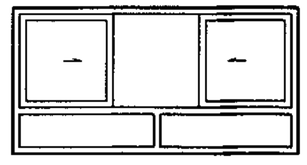
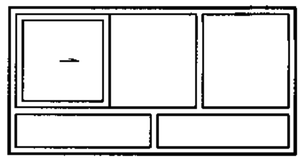
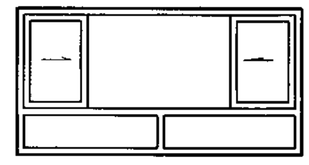
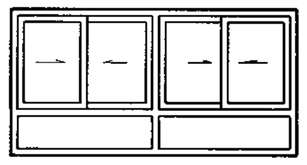
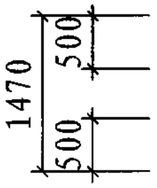
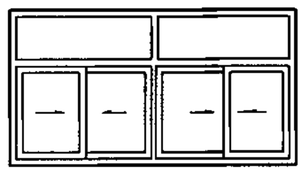
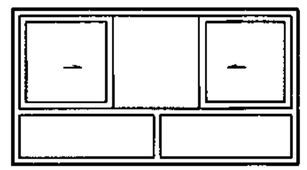
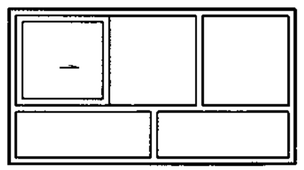
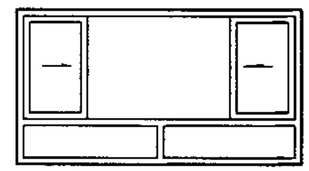
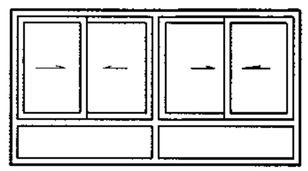
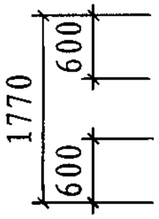
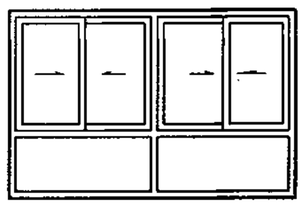
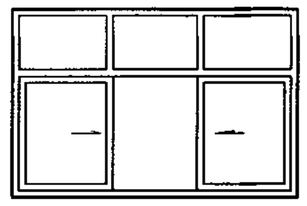
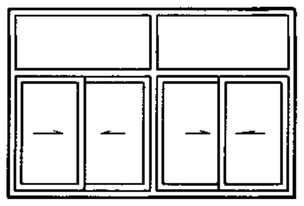
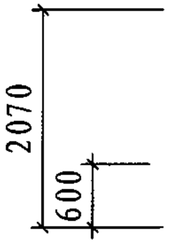
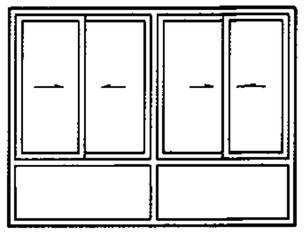
推拉窗立面图										图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍		页	27

洞口	2700				
900	2670 (700 + 700)	2670	2670	2670	2670 (700 + 700)
	870				
	2709TC3	2709TC4			
1200	1170 (400)				
	2712TC3	2712TC4	2712TC5	2712TC6	2712TC7
1400	1370 (400)				
	2714TC3	2714TC4	2714TC5	2714TC6	2714TC7
1500	1470 (500)				
	2715TC3	2715TC4	2715TC5	2715TC6	2715TC7
1800	1770 (600 + 600)				
	2718TC3	2718TC4	2718TC5	2718TC6	2718TC7
2100	2070 (600 + 600)				
	2721TC3	2721TC4	2721TC5	2721TC6	2721TC7

推拉窗立面图

图集号	07J604
页	28

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2700				
1200	  2712TC8	 2712TC9	 2712TC10	 2712TC11	 2712TC12
1400	  2714TC8	 2714TC9	 2714TC10	 2714TC11	 2714TC12
1500	  2715TC8	 2715TC9	 2715TC10	 2715TC11	 2715TC12
1800	  2718TC8	 2718TC9	 2718TC10		
2100	  2721TC8				

推拉窗立面图

图集号	07J604
页	29

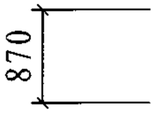
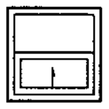
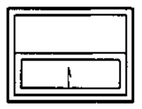
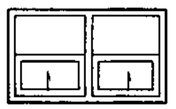
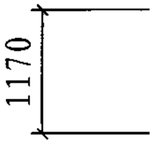
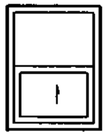
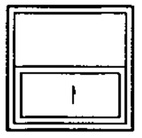
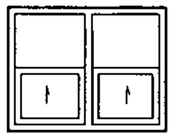
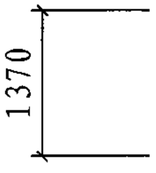
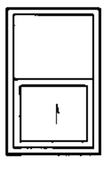
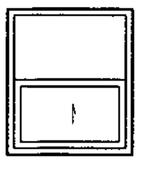
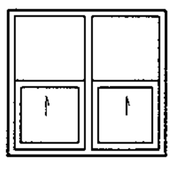
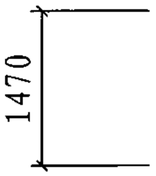
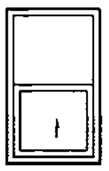
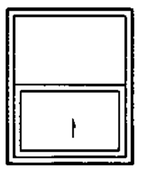
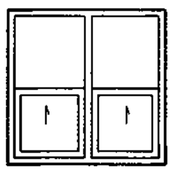
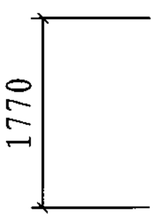
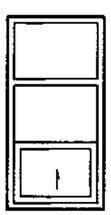
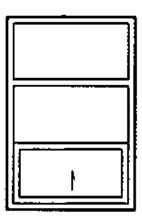
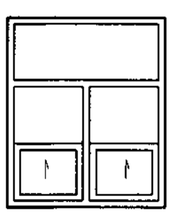
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	3000					
900	2970 (700 + 700)	2970	2970 (700 + 700)	2970	2970 (700 + 700)	2970
	870					
	3009TC1	3009TC2				
1200	1170 (400 + 400)					
	3012TC1	3012TC2	3012TC3	3012TC4	3012TC5	3012TC6
1400	1370 (400 + 400)					
	3014TC1	3014TC2	3014TC3	3014TC4	3014TC5	3014TC6
1500	1470 (400 + 400)					
	3015TC1	3015TC2	3015TC3	3015TC4	3015TC5	3015TC6
1800	1770 (600 + 600)					
	3018TC1	3018TC2	3018TC3	3018TC4	3018TC5	3018TC6
2100	2070 (600 + 600)					
	3021TC1	3021TC2	3021TC3	3021TC4		

推拉窗立面图

图集号	07J604
页	30

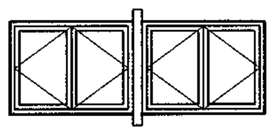
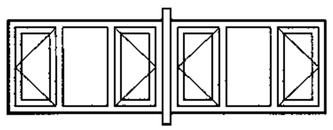
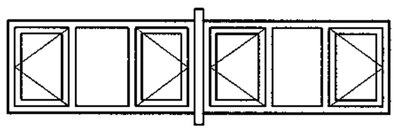
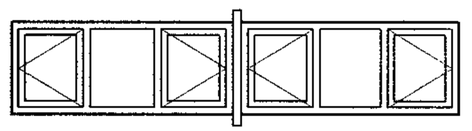
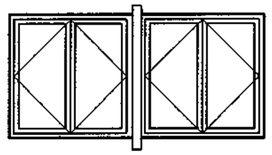
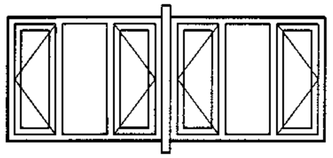
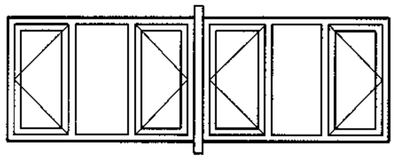
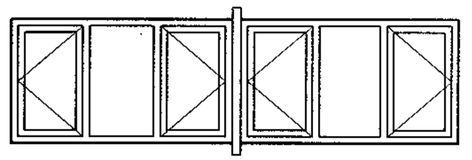
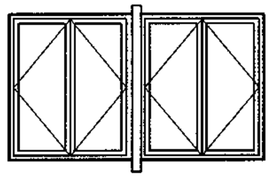
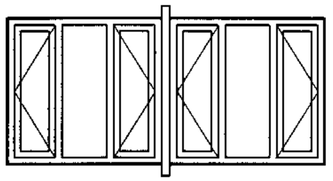
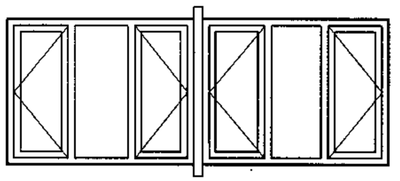
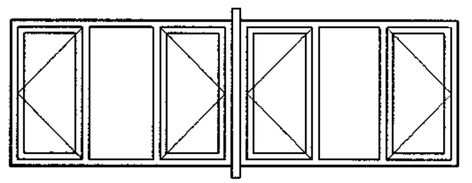
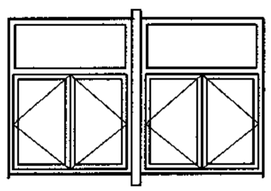
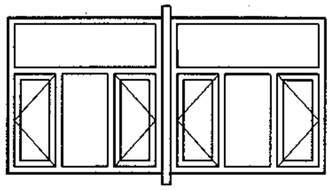
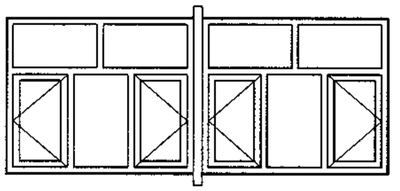
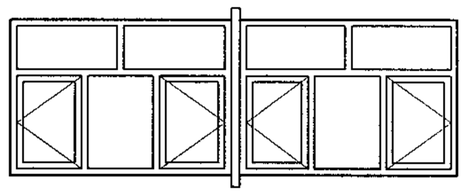
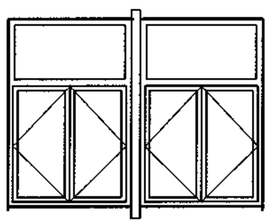
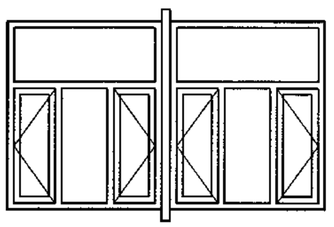
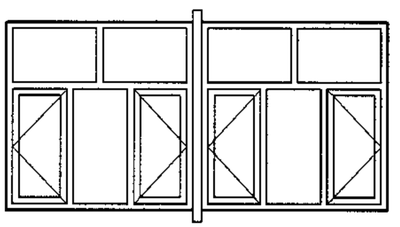
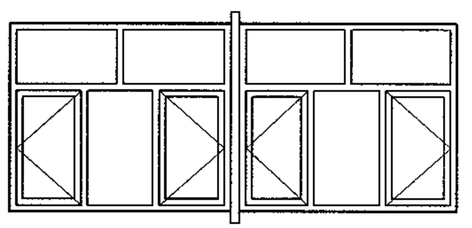
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	600	900	1200	1500
900	570 870  0609TC-U	870  0909TC-U	1170  1209TC-U	1470  1509TC-U
1200	1170  0612TC-U	 0912TC-U	 1212TC-U	 1512TC-U
1400	1370  0614TC-U	 0914TC-U	 1214TC-U	 1514TC-U
1500	1470  0615TC-U	 0915TC-U	 1215TC-U	 1515TC-U
1800	1770  0618TC-U	 0918TC-U	 1218TC-U	 1518TC-U

推拉窗立面图

图集号	07J604
页	31

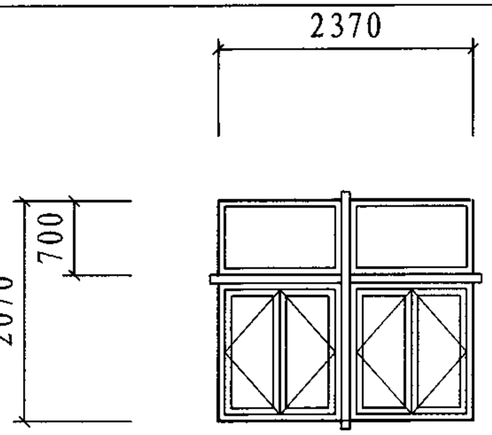
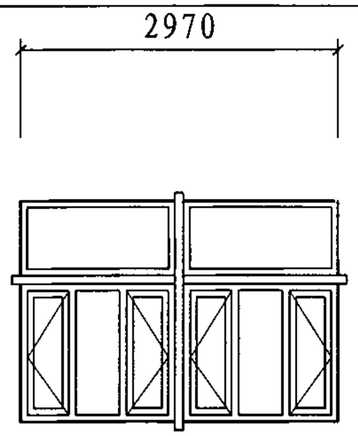
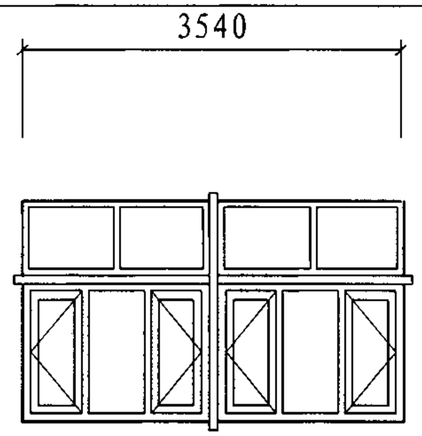
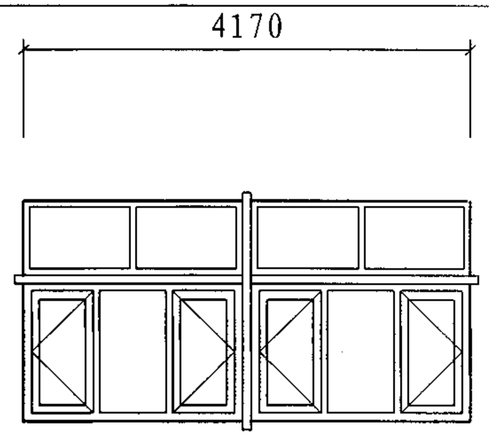
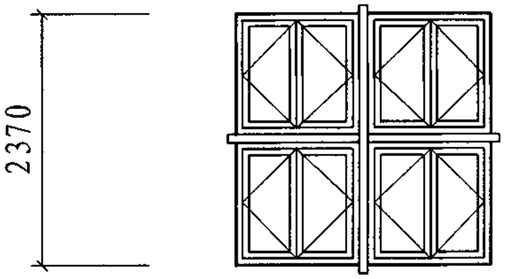
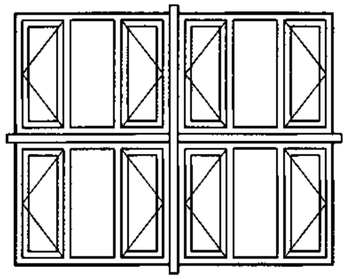
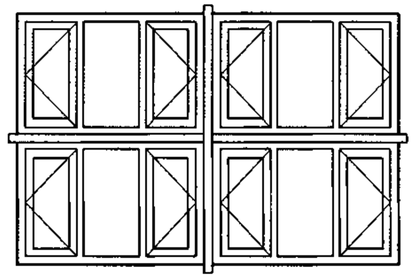
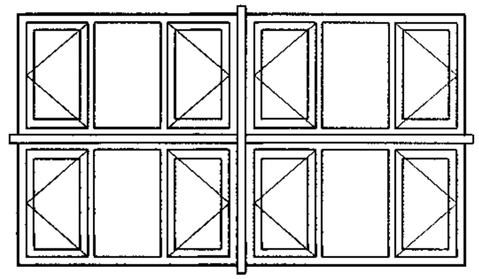
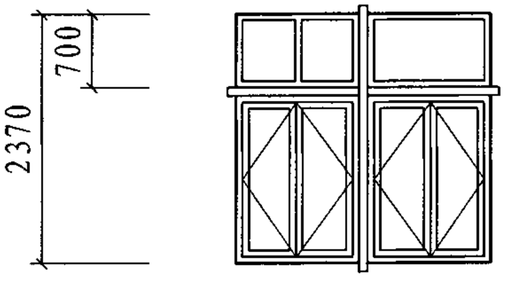
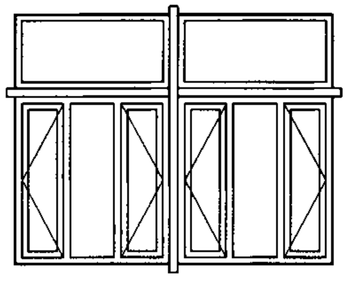
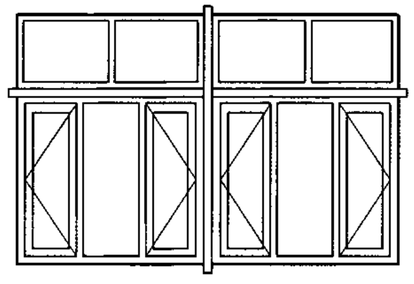
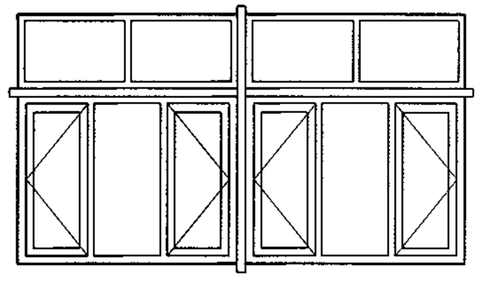
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400	3000	3600	4200
900	2370 × 870  2409PC-Z	2970  3009PC-Z	3570  3609PC-Z	4170  4209PC-Z
1200	1170  2412PC-Z	 3012PC-Z	 3612PC-Z	 4212PC-Z
1400	1370  2414PC-Z	 3014PC-Z	 3614PC-Z	 4214PC-Z
1500	1470 × 500  2415PC-Z	 3015PC-Z	 3615PC-Z	 4215PC-Z
1800	1770 × 600  2418PC-Z	 3018PC-Z	 3618PC-Z	 4218PC-Z

平开组合窗立面图

图集号	07J604
页	32

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400	3000	3600	4200
2100	 2421PC-Z	 3021PC-Z	 3621PC-Z	 4221PC-Z
2400	 2424PC1-Z	 3024PC1-Z	 3624PC1-Z	 4224PC1-Z
	 2424PC2-Z	 3024PC2-Z	 3624PC2-Z	 4224PC2-Z

平开组合窗立面图

图集号	07J604
页	33

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	4800		6000	
	4770	4770	5970	5970
900	870			
	4809PC1-Z	4809PC2-Z	6009PC1-Z	6009PC2-Z
1200	1170			
	4812PC1-Z	4812PC2-Z	6012PC1-Z	6012PC2-Z
1400	1370 500			
	4814PC1-Z	4814PC2-Z	6014PC1-Z	6014PC2-Z
1500	1470 500			
	4815PC1-Z	4815PC2-Z	6015PC1-Z	6015PC2-Z
1800	1770 600			
	4818PC1-Z	4818PC2-Z	6018PC-Z	

平开组合窗立面图

图集号	07J604
页	34

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400	3000	3600	4200	4800	6000
	2370	2970	3570	4170	4770	5970
900	870					
	2409PXC-DZ	3009PXC-DZ	3609PXC-DZ	4209PXC-DZ	4809PXC-DZ	6009PXC-DZ
1200	1170					
	2412PXC-DZ	3012PXC-DZ	3612PXC-DZ	4212PXC-DZ	4812PXC-DZ	6012PXC-DZ
1500	1470					
	2415PXC-DZ	3015PXC-DZ	3615PXC-DZ	4215PXC-DZ	4815PXC-DZ	6015PXC-DZ
1800	1770 500					
	2418PXC-DZ	3018PXC-DZ	3618PXC-DZ	4218PXC-DZ	4818PXC-DZ	6018PXC-DZ
2100	2070 600					
	2421PXC-DZ	3021PXC-DZ	3621PXC-DZ	4221PXC-DZ		
2400	2390					
	2424PXC1-DZ	3024PXC1-DZ	3624PXC1-DZ	4224PXC1-DZ		
	2390					
	2424PXC2-DZ	3024PXC2-DZ	3624PXC2-DZ	4224PXC2-DZ		

内平开下悬组合窗立面图

图集号	07J604
页	35

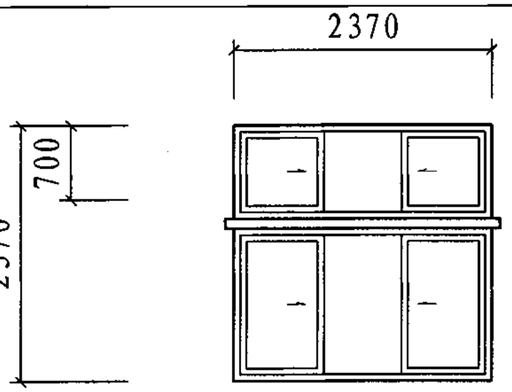
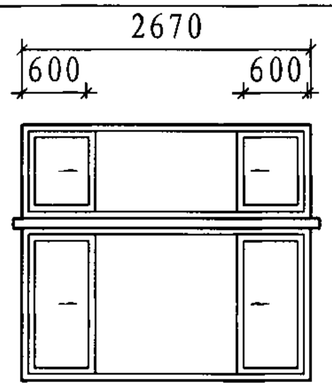
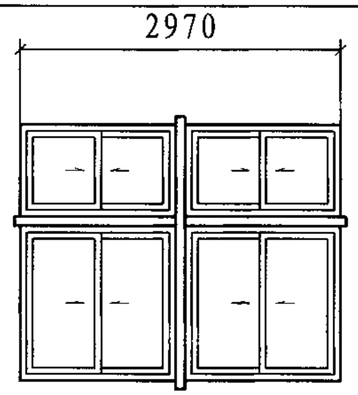
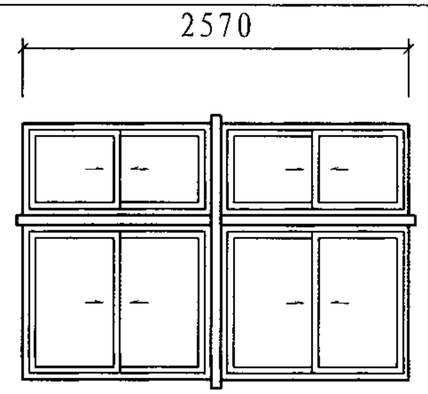
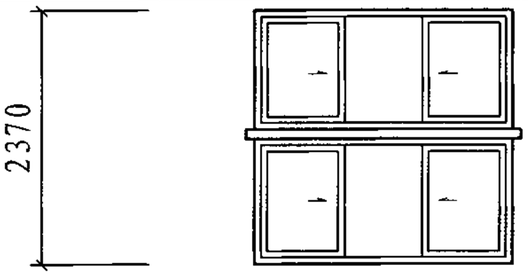
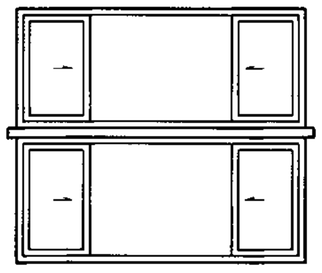
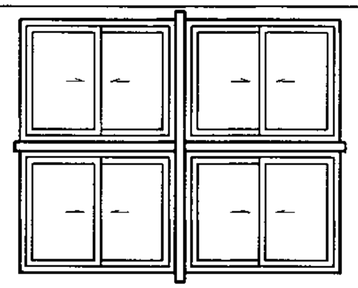
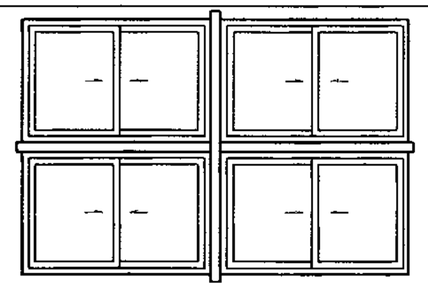
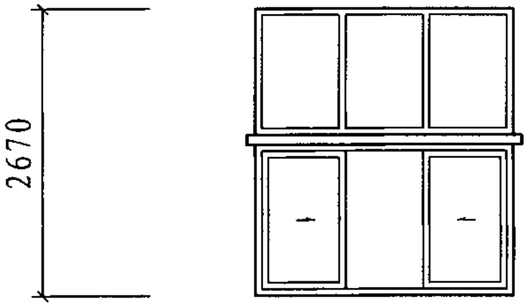
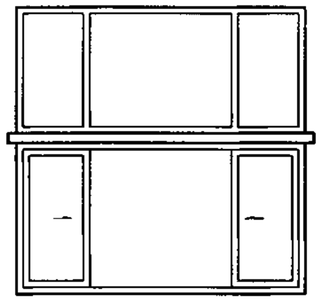
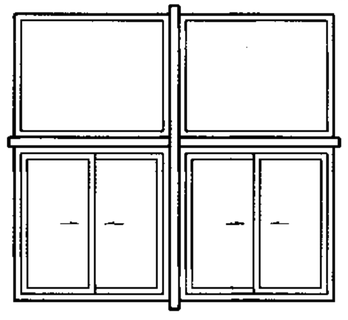
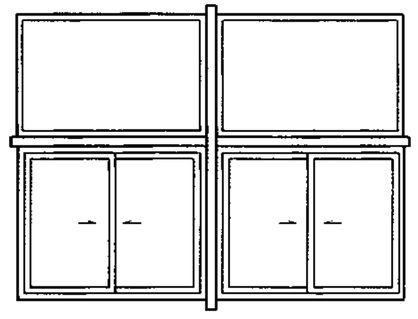
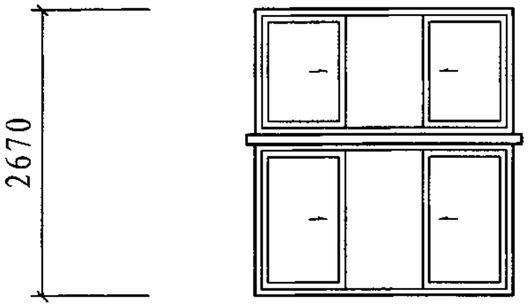
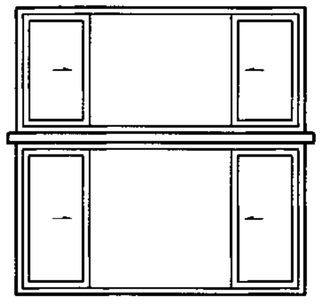
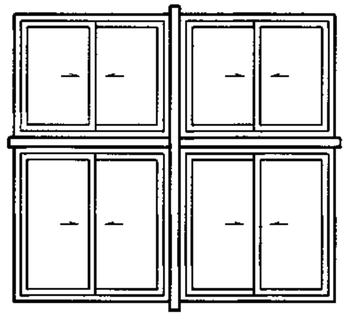
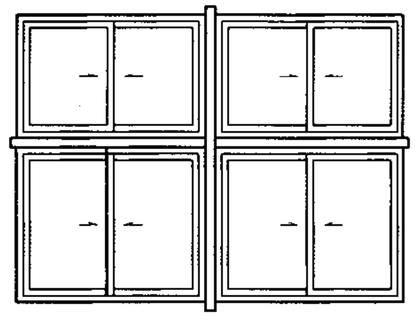
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400	2700	3000	3600	4200
1200	2370 1170	2670 600 600	2970	3570	4170
			3012TC-Z	3612TC-Z	4212TC-Z
1500	1470				
			3015TC-Z	3615TC-Z	4215TC-Z
1800	600 1770				
			3018TC-Z	3618TC-Z	4218TC-Z
2100	600 2070				
	2421TC1-Z	2721TC1-Z	3021TC1-Z	3621TC1-Z	4221TC-Z
	900 2070				
	2421TC2-Z	2721TC2-Z	3021TC2-Z	3621TC2-Z	

推拉组合窗立面图

图集号	07J604
页	36

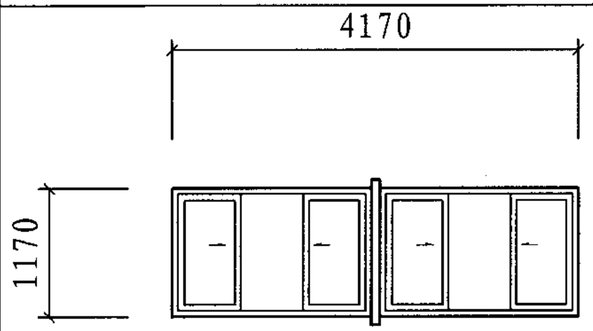
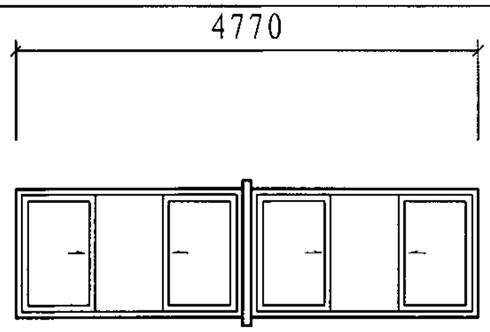
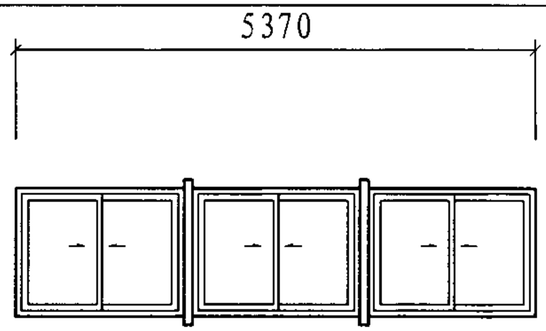
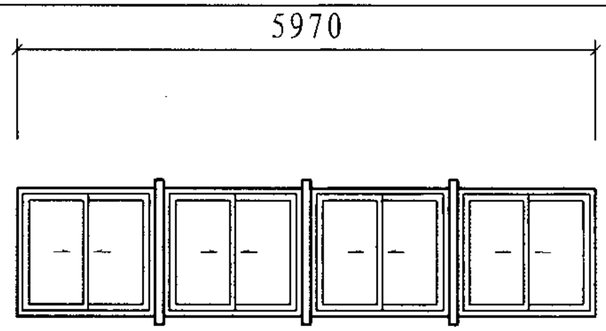
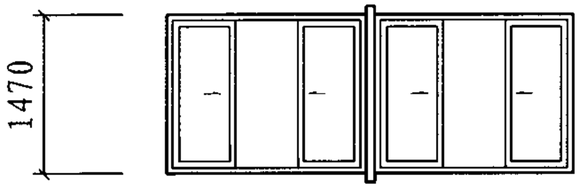
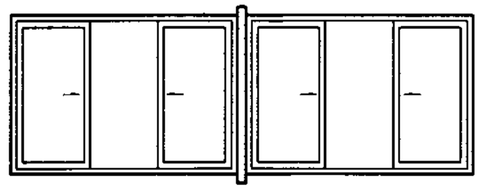
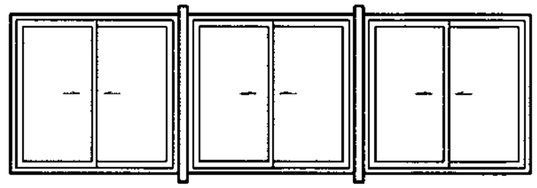
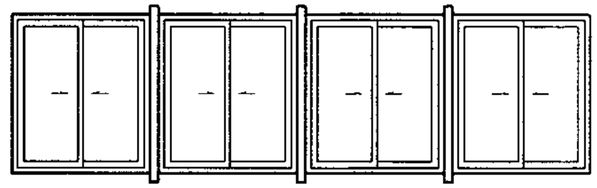
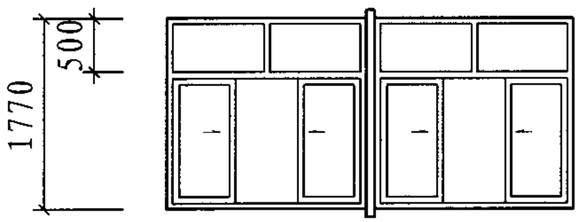
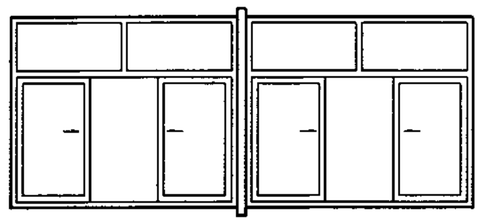
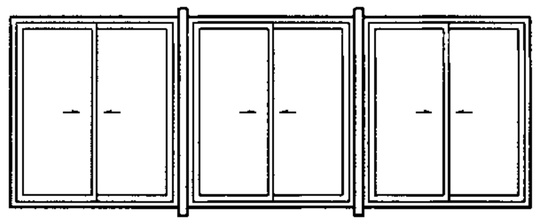
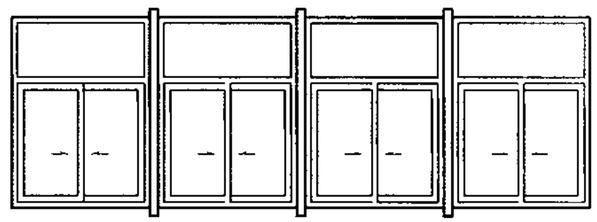
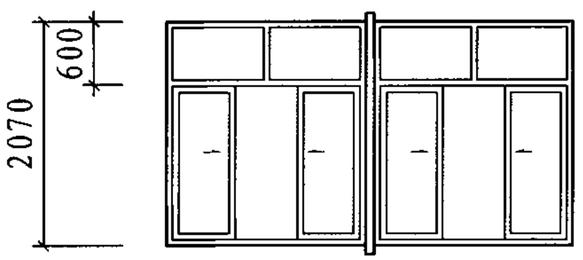
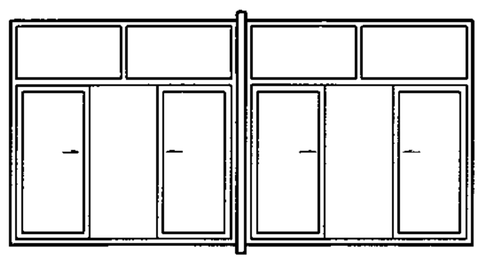
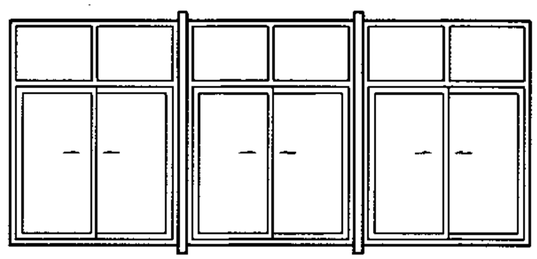
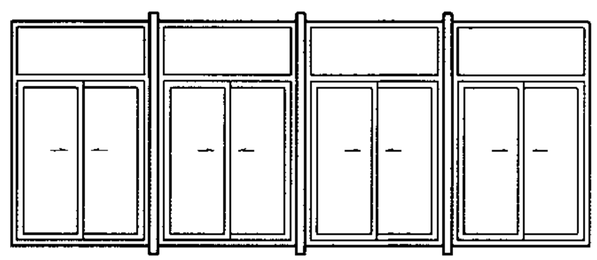
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400	2700	3000	3600
2400	 2424TC1-Z	 2724TC1-Z	 3024TC1-Z	 3624TC1-Z
	 2424TC2-Z	 2724TC2-Z	 3024TC2-Z	 3624TC2-Z
2700	 2427TC1-Z	 2727TC1-Z	 3027TC1-Z	 3627TC1-Z
	 2427TC2-Z	 2727TC2-Z	 3027TC2-Z	 3627TC2-Z

推拉组合窗立面图

图集号	07J604
页	37

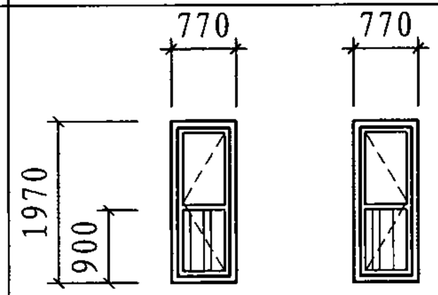
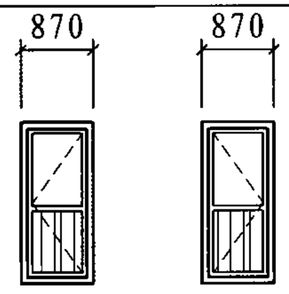
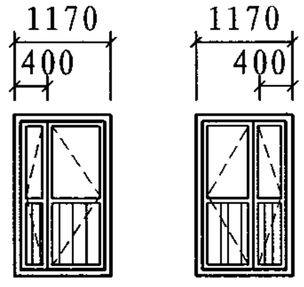
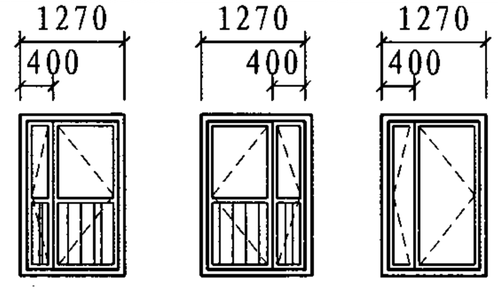
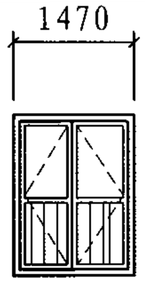
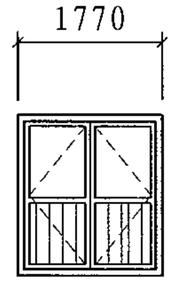
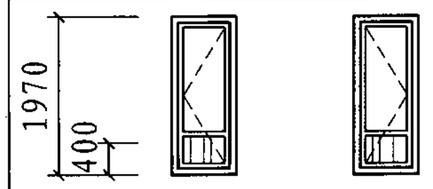
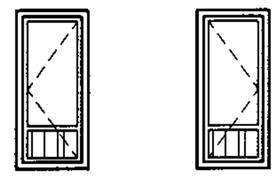
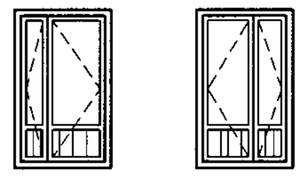
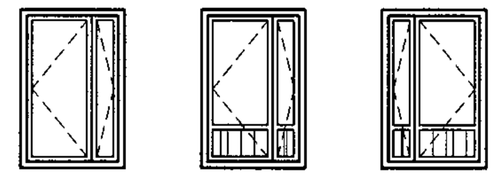
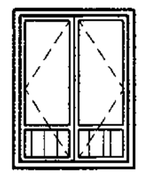
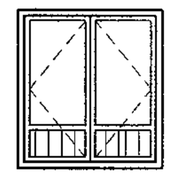
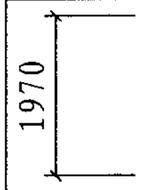
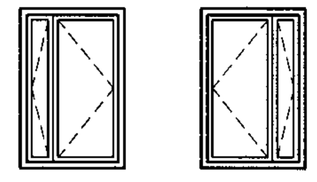
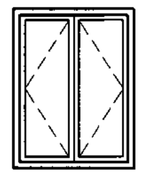
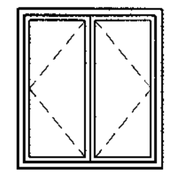
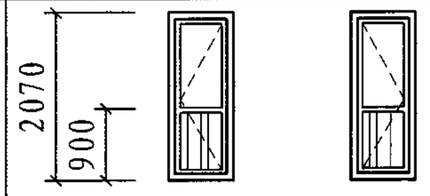
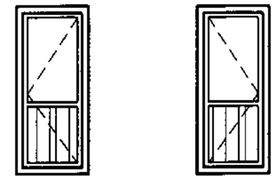
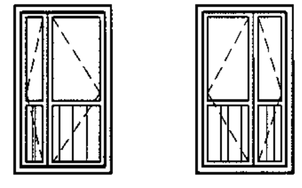
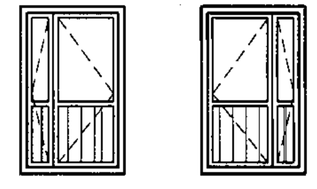
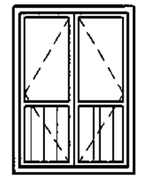
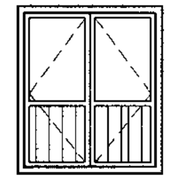
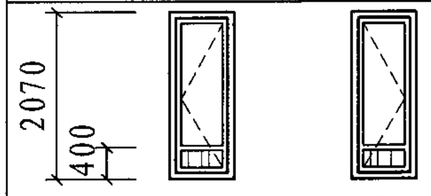
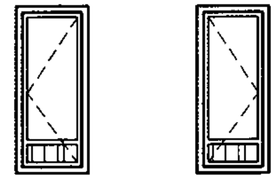
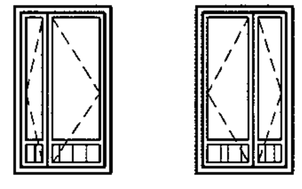
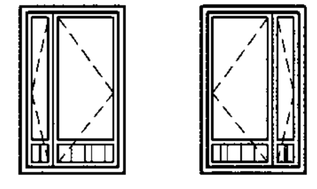
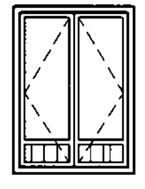
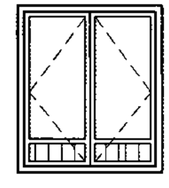
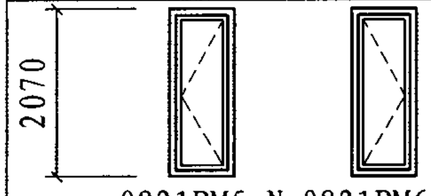
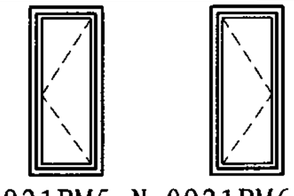
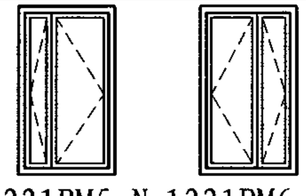
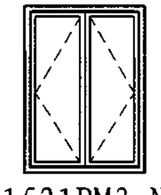
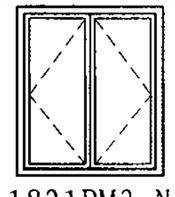
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口		4800	5400	6000
	 4212TC2-Z	 4812TC-Z	 5412TC-Z	 6012TC-Z
	 4215TC2-Z	 4815TC-Z	 5415TC-Z	 6015TC-Z
	 4218TC2-Z	 4818TC-Z	 5418TC-Z	 6018TC-Z
	 4221TC2-Z	 4821TC-Z	 5421TC-Z	 6021TC-Z

推拉组合窗立面图

图集号	07J604
页	38

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	800	900	1200	1300	1500	1800
2000	 0820PM1-N 0820PM2-N	 0920PM1-N 0920PM2-N	 1220PM1-N 1220PM2-N	 1320PM1-N 1320PM2-N 1320PM3-N	 1520PM1-N	 1820PM1-N
	 0820PM3-N 0820PM4-N	 0920PM3-N 0920PM4-N	 1220PM3-N 1220PM4-N	 1320PM4-N 1320PM5-N 1320PM6-N	 1520PM2-N	 1820PM2-N
				 1320PM7-N 1320PM8-N	 1520PM3-N	 1820PM3-N
2100	 0821PM1-N 0821PM2-N	 0921PM1-N 0921PM2-N	 1221PM1-N 1221PM2-N	 1321PM1-N 1321PM2-N	 1521PM1-N	 1821PM1-N
	 0821PM3-N 0821PM4-N	 0921PM3-N 0921PM4-N	 1221PM3-N 1221PM4-N	 1321PM3-N 1321PM4-N	 1521PM2-N	 1821PM2-N
	 0821PM5-N 0821PM6-N	 0921PM5-N 0921PM6-N	 1221PM5-N 1221PM6-N		 1521PM3-N	 1821PM3-N

内平开门立面图

图集号	07J604
页	39

审核	陈海丰	校对	张集锋	设计	张任巍

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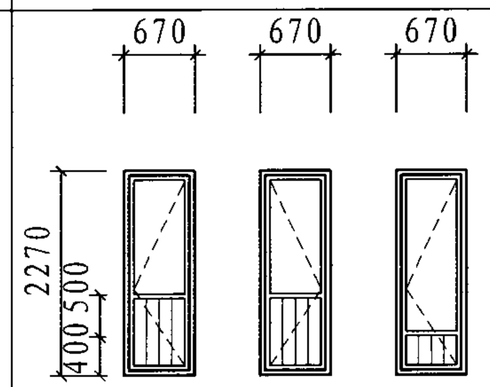
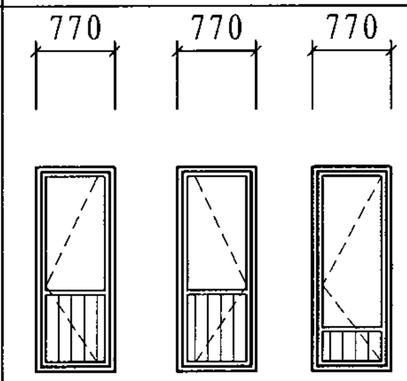
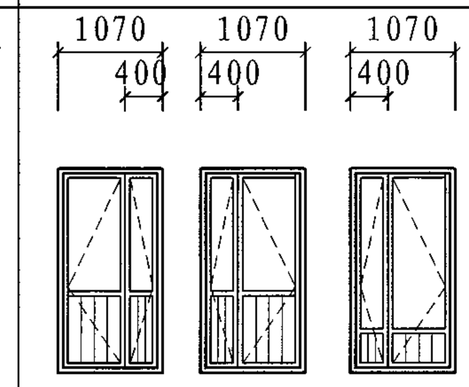
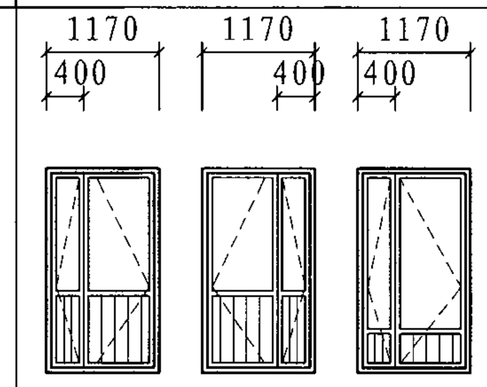
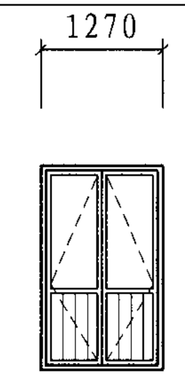
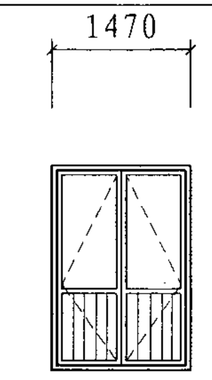
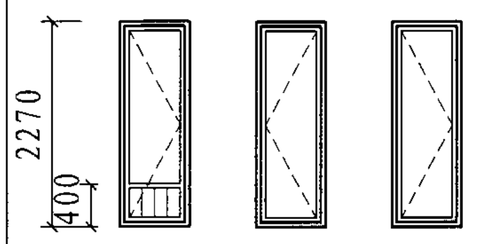
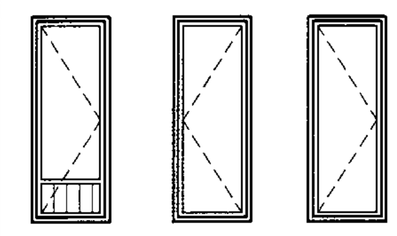
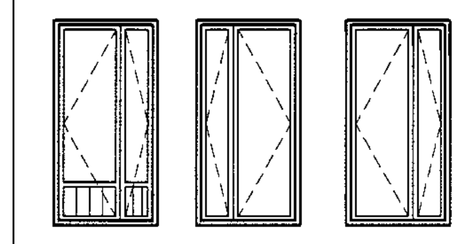
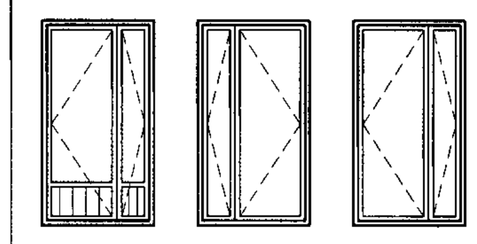
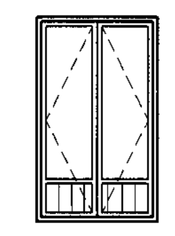
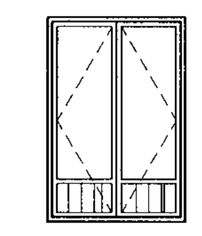
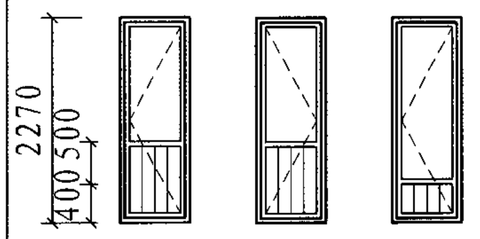
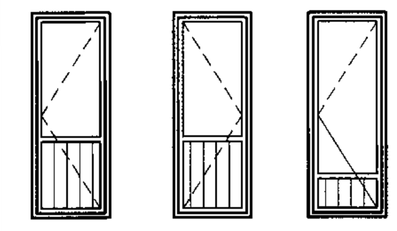
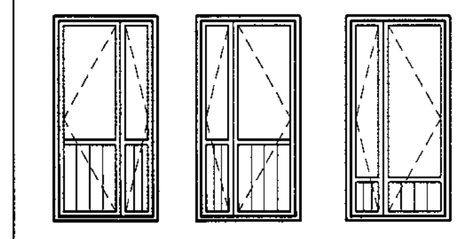
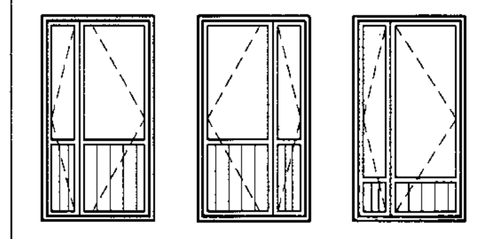
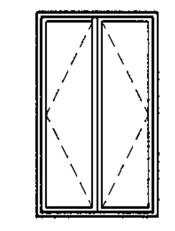
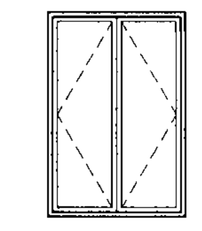
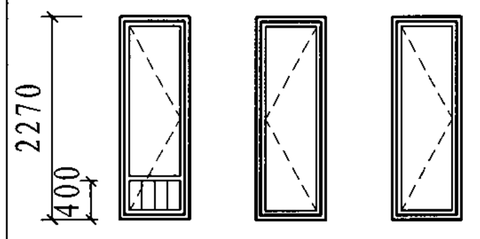
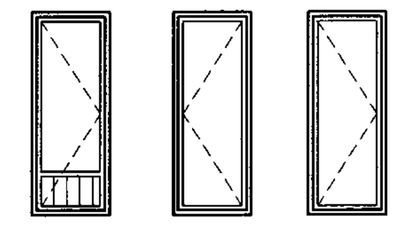
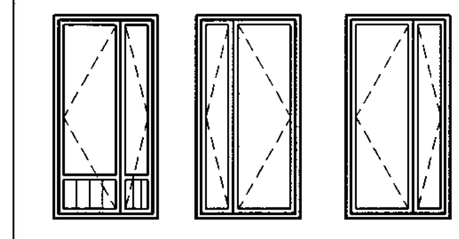
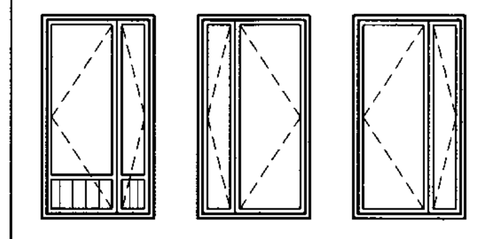
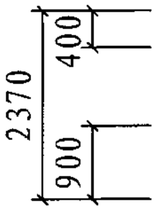
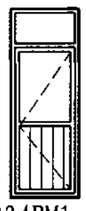
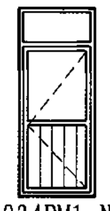
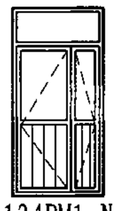
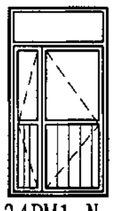
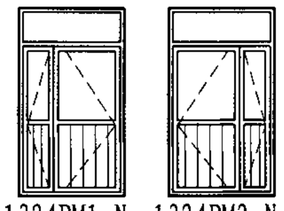
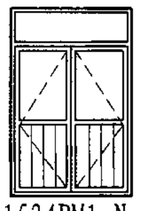
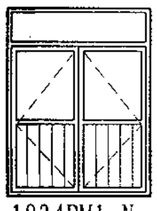
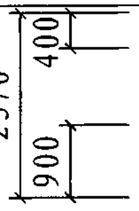
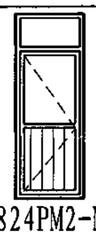
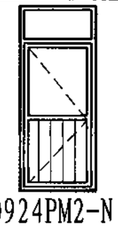
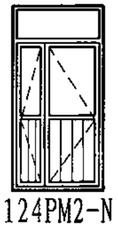
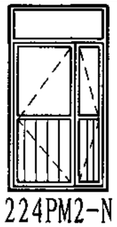
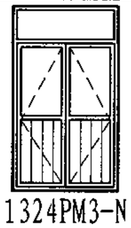
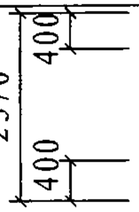
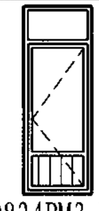
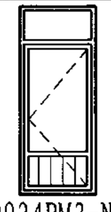
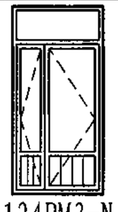
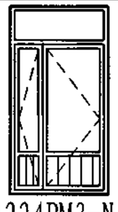
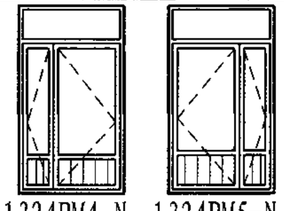
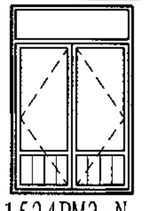
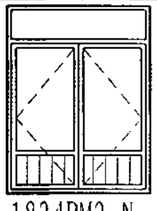
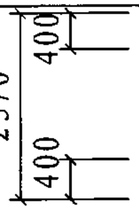
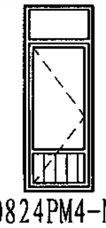
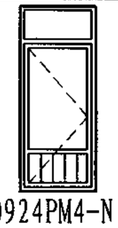
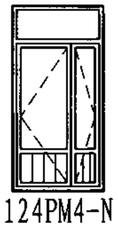
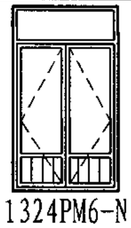
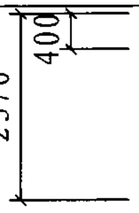
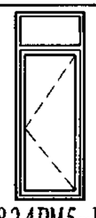
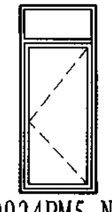
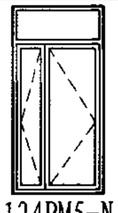
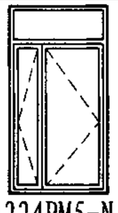
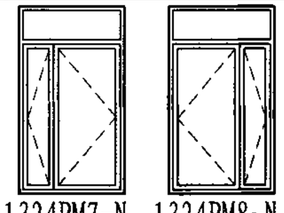
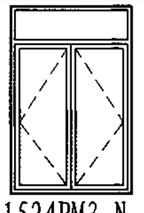
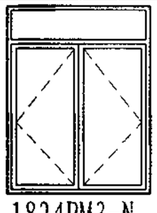
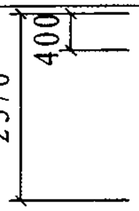
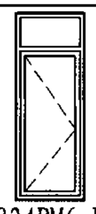
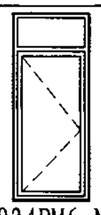
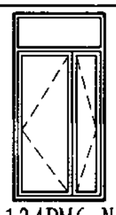
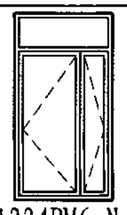
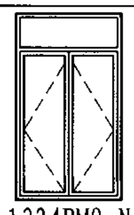
2300	 0723PM1-N 0723PM2-N 0723PM3-N	 0823PM1-N 0823PM2-N 0823PM3-N	 1123PM1-N 1123PM2-N 1123PM3-N	 1223PM1-N 1223PM2-N 1223PM3-N	 1323PM1-N	 1523PM1-N
	 0723PM4-N 0723PM5-N 0723PM6-N	 0823PM4-N 0823PM5-N 0823PM6-N	 1123PM4-N 1123PM5-N 1123PM6-N	 1223PM4-N 1223PM5-N 1223PM6-N	 1323PM2-N	 1523PM2-N
	 0723PM7-N 0723PM8-N 0723PM9-N	 0823PM7-N 0823PM8-N 0823PM9-N	 1123PM7-N 1123PM8-N 1123PM9-N	 1223PM7-N 1223PM8-N 1223PM9-N	 1323PM3-N	 1523PM3-N
	 0723PM10-N 0723PM11-N 0723PM12-N	 0823PM10-N 0823PM11-N 0823PM12-N	 1123PM10-N 1123PM11-N 1123PM12-N	 1223PM10-N 1223PM11-N 1223PM12-N		

内平开门立面图

图集号	07J604
页	40

审核	陈海丰	校对	张集锋	设计	张任巍

洞口	700	800	900	1100	1200	1300	1500	1800
2400	670 2370 400 900  0724PM1-N	770  0824PM1-N	870  0924PM1-N	1070  1124PM1-N	1170  1224PM1-N	1270 1270  1324PM1-N 1324PM2-N	1470  1524PM1-N	1770  1824PM1-N
	2370 400 900  0724PM2-N	 0824PM2-N	 0924PM2-N	 1124PM2-N	 1224PM2-N	 1324PM3-N		
	2370 400 400  0724PM3-N	 0824PM3-N	 0924PM3-N	 1124PM3-N	 1224PM3-N	 1324PM4-N 1324PM5-N	 1524PM2-N	 1824PM2-N
	2370 400 400  0724PM4-N	 0824PM4-N	 0924PM4-N	 1124PM4-N	 1224PM4-N	 1324PM6-N		
	2370 400  0724PM5-N	 0824PM5-N	 0924PM5-N	 1124PM5-N	 1224PM5-N	 1324PM7-N 1324PM8-N	 1524PM3-N	 1824PM3-N
	2370 400  0724PM6-N	 0824PM6-N	 0924PM6-N	 1124PM6-N	 1224PM6-N	 1324PM9-N		

注：上部亮子可以为固定窗，也可为上悬窗。

内平开门立面图

图集号	07J604
页	41

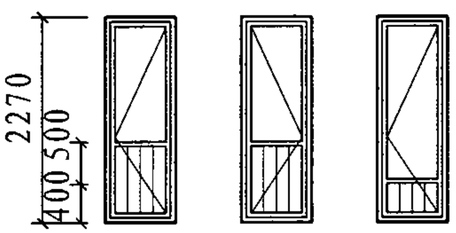
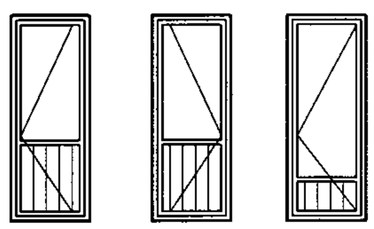
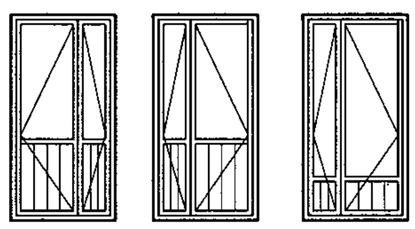
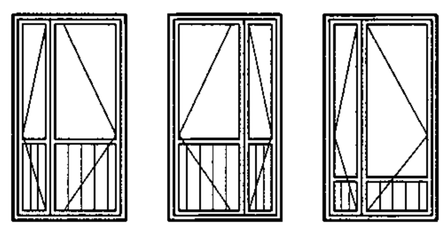
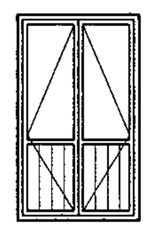
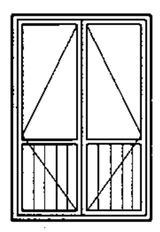
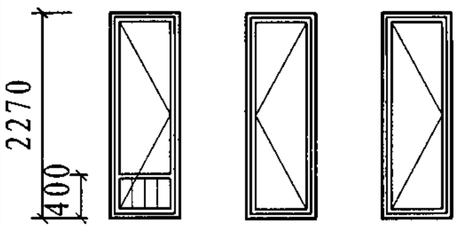
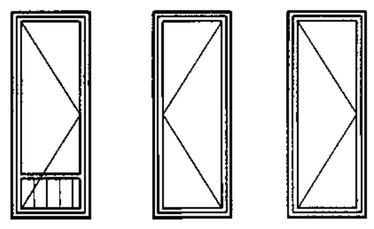
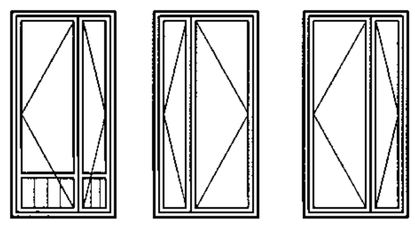
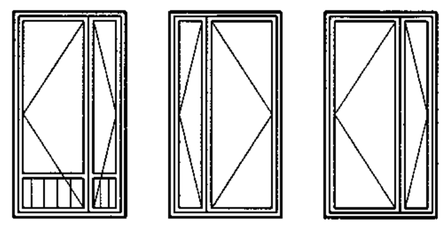
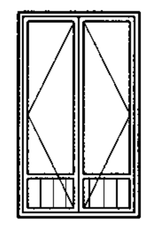
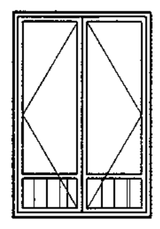
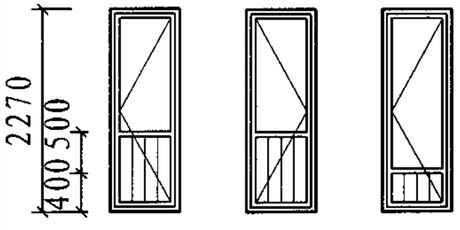
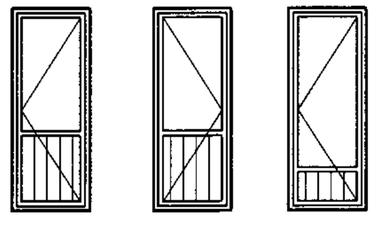
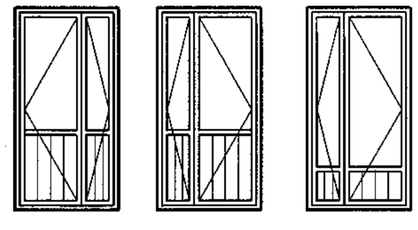
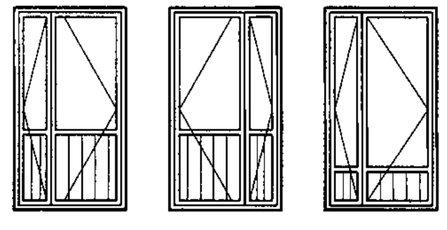
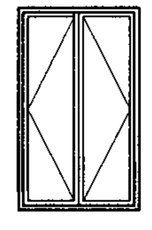
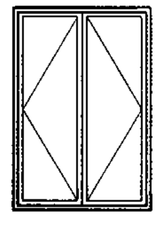
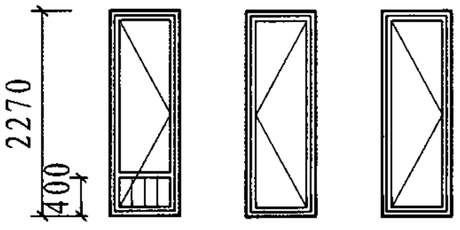
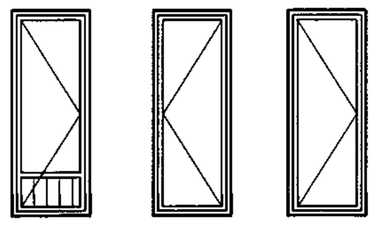
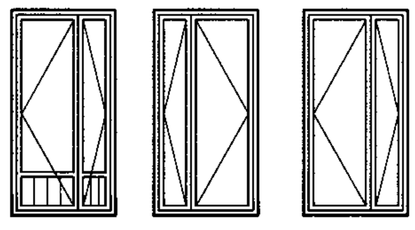
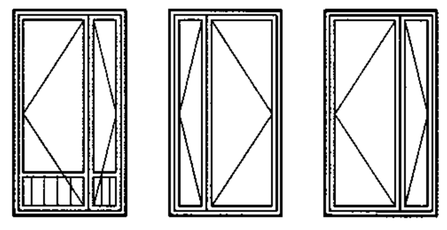
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	800	900	1200	1300	1500	1800
2000	770 770 1970 900 0820PM1-W 0820PM2-W	870 870 0920PM1-W 0920PM2-W	1170 1170 400 400 1220PM1-W 1220PM2-W	1270 1270 1270 400 400 400 1320PM1-W 1320PM2-W 1320PM3-W	1470 1520PM1-W	1770 1820PM1-W
	1970 400 0820PM3-W 0820PM4-W	0920PM3-W 0920PM4-W	1220PM3-W 1220PM4-W	1320PM4-W 1320PM5-W 1320PM6-W	1520PM2-W	1820PM2-W
	1970			1320PM7-W 1320PM8-W	1520PM3-W	1820PM3-W
2100	2070 900 0821PM1-W 0821PM2-W	0921PM1-W 0921PM2-W	1221PM1-W 1221PM2-W	1321PM1-W 1321PM2-W	1521PM1-W	1821PM1-W
	2070 400 0821PM3-W 0821PM4-W	0921PM3-W 0921PM4-W	1221PM3-W 1221PM4-W	1321PM3-W 1321PM4-W	1521PM2-W	1821PM2-W
	2070 0821PM5-W 0821PM6-W	0921PM5-W 0921PM6-W	1221PM5-W 1221PM6-W		1521PM3-W	1821PM3-W

外平开门立面图

图集号	07J604
页	42

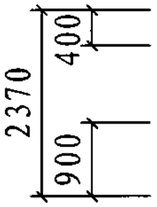
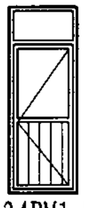
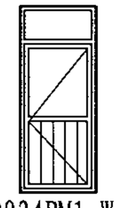
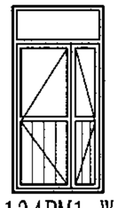
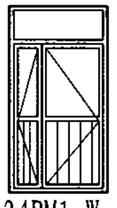
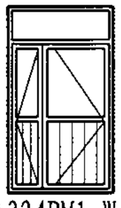
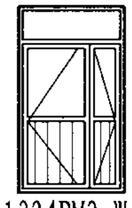
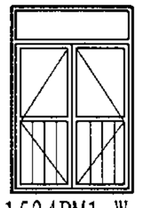
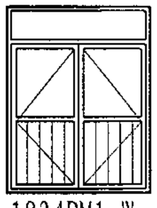
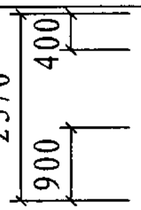
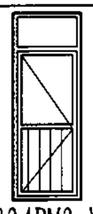
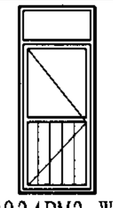
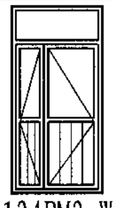
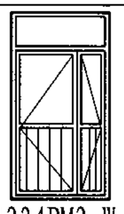
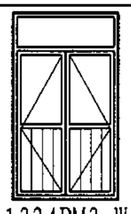
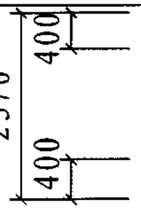
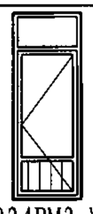
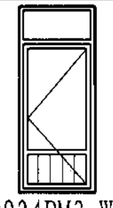
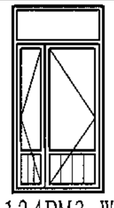
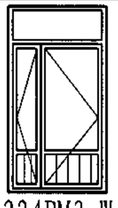
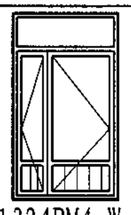
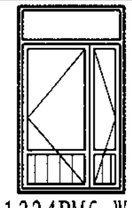
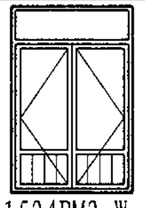
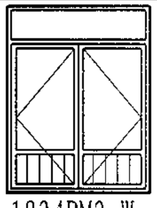
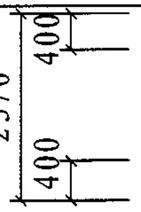
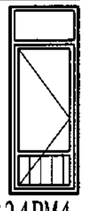
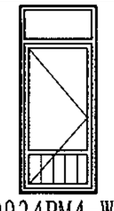
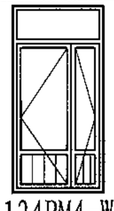
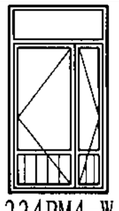
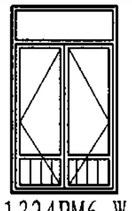
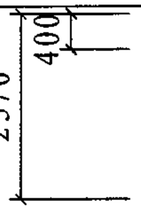
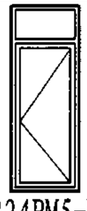
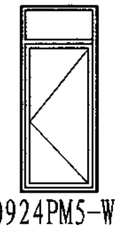
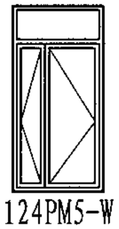
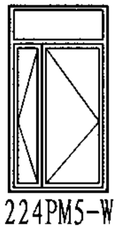
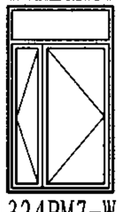
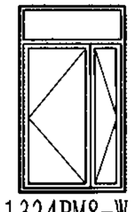
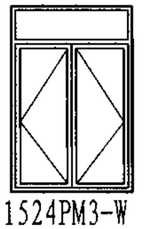
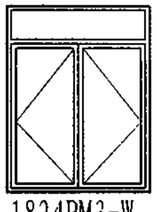
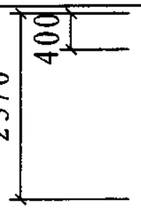
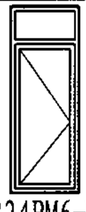
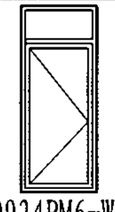
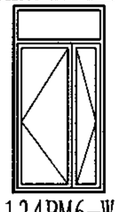
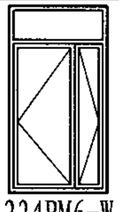
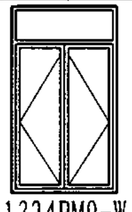
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	700	800	1100	1200	1300	1500
2300	670 670 670 2270 400 500  0723PM1-W 0723PM2-W 0723PM3-W	770 770 770  0823PM1-W 0823PM2-W 0823PM3-W	1070 1070 1070 400 400 400  1123PM1-W 1123PM2-W 1123PM3-W	1170 1170 1170 400 400 400  1223PM1-W 1223PM2-W 1223PM3-W	1270  1323PM1-W	1470  1523PM1-W
	2270 400  0723PM4-W 0723PM5-W 0723PM6-W	 0823PM4-W 0823PM5-W 0823PM6-W	 1123PM4-W 1123PM5-W 1123PM6-W	 1223PM4-W 1223PM5-W 1223PM6-W	 1323PM2-W	 1523PM2-W
	2270 400 500  0723PM7-W 0723PM8-W 0723PM9-W	 0823PM7-W 0823PM8-W 0823PM9-W	 1123PM7-W 1123PM8-W 1123PM9-W	 1223PM7-W 1223PM8-W 1223PM9-W	 1323PM3-W	 1523PM3-W
	2270 400  0723PM10-W0723PM11-W0723PM12-W	 0823PM10-W0823PM11-W0823PM12-W	 1123PM10-W 1123PM11-W 1123PM12-W	 1223PM10-W 1223PM11-W 1223PM12-W		

外平开门立面图

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

图集号	07J604
页	43

洞口	700	800	900	1100	1200	1300	1500	1800
2400	670	770	870	1070	1170	1270 1270	1470	1770
	2370 400 900  0724PM1-W	 0824PM1-W	 0924PM1-W	 1124PM1-W	 1224PM1-W	 1324PM1-W  1324PM2-W	 1524PM1-W	 1824PM1-W
	2370 400 900  0724PM2-W	 0824PM2-W	 0924PM2-W	 1124PM2-W	 1224PM2-W	 1324PM3-W		
	2370 400 400  0724PM3-W	 0824PM3-W	 0924PM3-W	 1124PM3-W	 1224PM3-W	 1324PM4-W  1324PM5-W	 1524PM2-W	 1824PM2-W
	2370 400 400  0724PM4-W	 0824PM4-W	 0924PM4-W	 1124PM4-W	 1224PM4-W	 1324PM6-W		
	2370 400  0724PM5-W	 0824PM5-W	 0924PM5-W	 1124PM5-W	 1224PM5-W	 1324PM7-W  1324PM8-W	 1524PM3-W	 1824PM3-W
	2370 400  0724PM6-W	 0824PM6-W	 0924PM6-W	 1124PM6-W	 1224PM6-W	 1324PM9-W		

注：上部亮子可以为固定窗，也可为上悬窗。

外平开门立面图

图集号	07J604
页	44

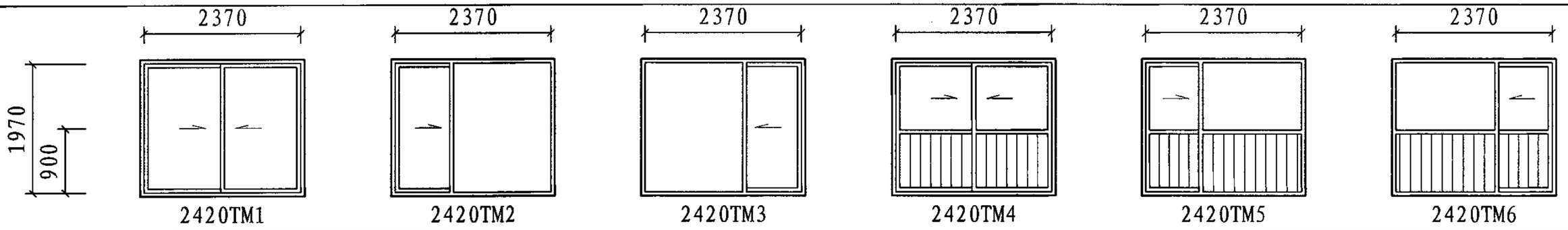
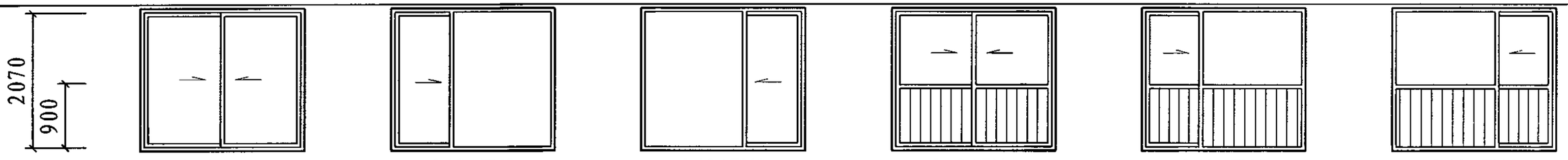
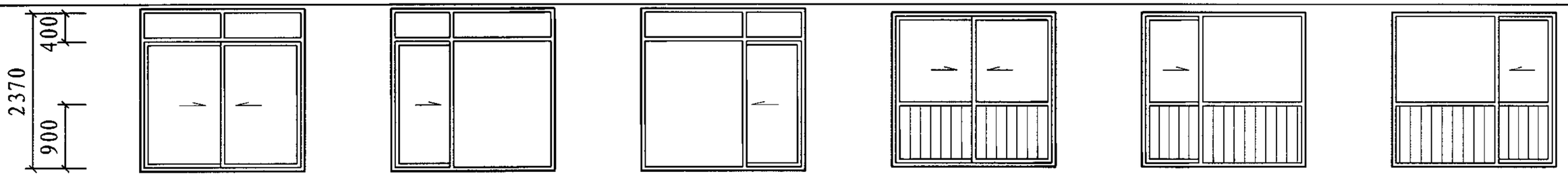
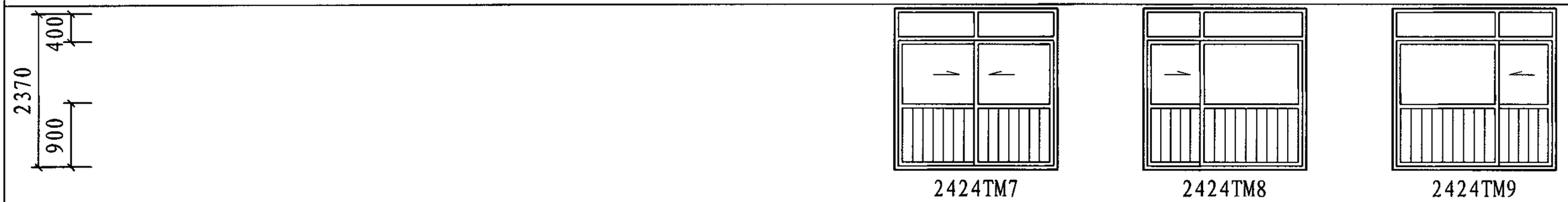
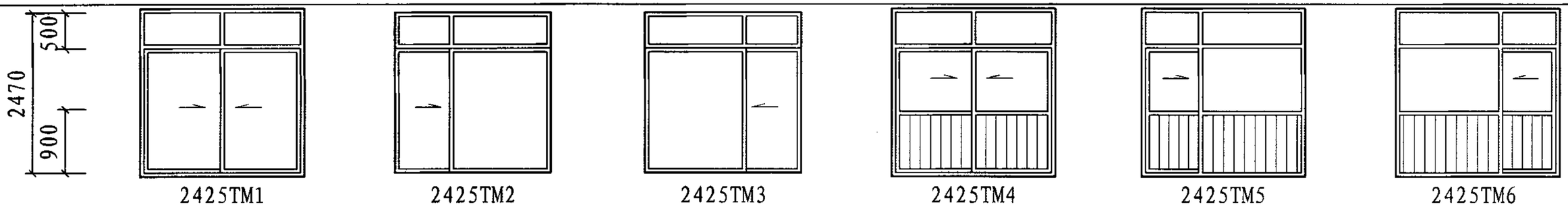
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

洞口	1500		1800		2100					
	1470	1470	1770	1770	2070	2070	2070	2070	2070	2070
2000	1970 / 900									
	1520TM1	1520TM2	1820TM1	1820TM2	2120TM1	2120TM2	2120TM3	2120TM4	2120TM5	2120TM6
2100	2070 / 900									
	1521TM1	1521TM2	1821TM1	1821TM2	2121TM1	2121TM2	2121TM3	2121TM4	2121TM5	2121TM6
2400	2370 / 400 / 900									
	1524TM1	1524TM2	1824TM1	1824TM2	2124TM1	2124TM2	2124TM3	2124TM4	2124TM5	2124TM6
	2370 / 400 / 900									
	1524TM3		1824TM3					2124TM7	2124TM8	2124TM9
2500	2470 / 500 / 900									
	1525TM1	1525TM2	1825TM1	1825TM2	2125TM1	2125TM2	2125TM3	2125TM4	2125TM5	2125TM6

推拉门立面图

图集号	07J604
页	45

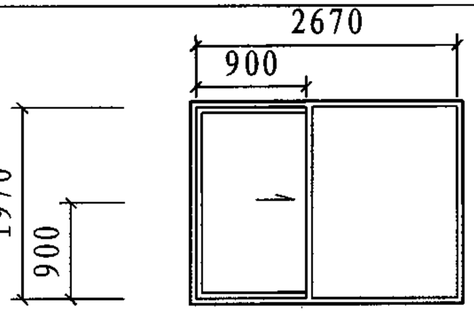
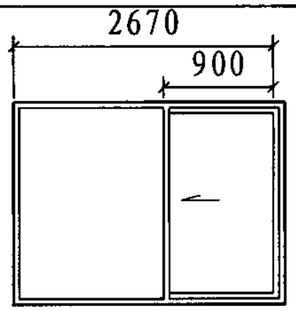
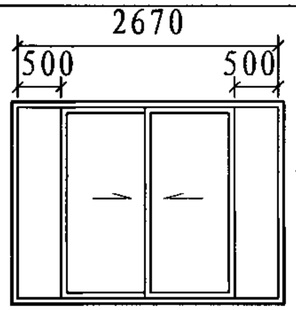
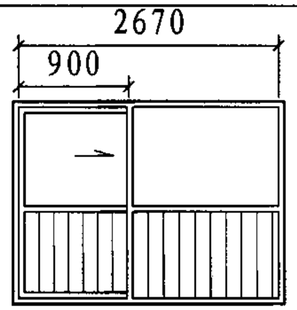
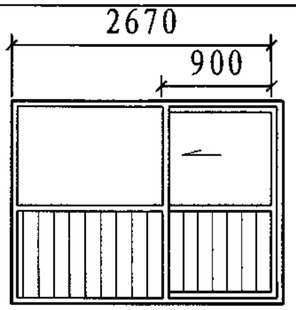
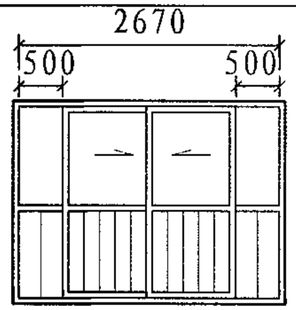
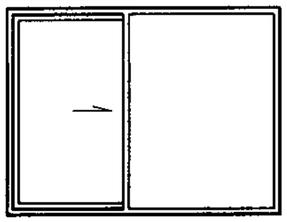
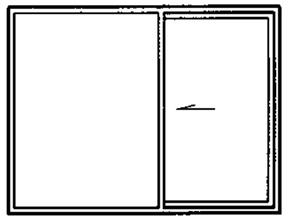
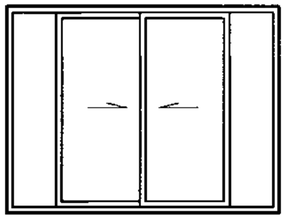
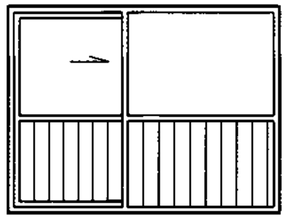
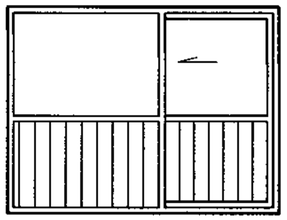
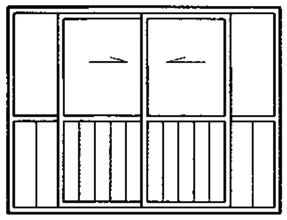
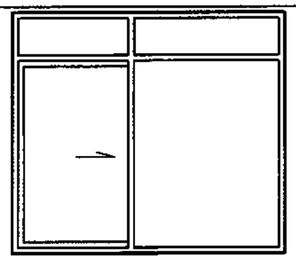
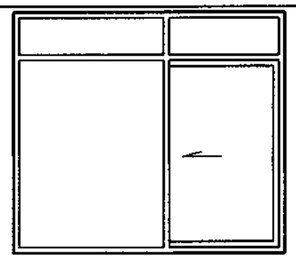
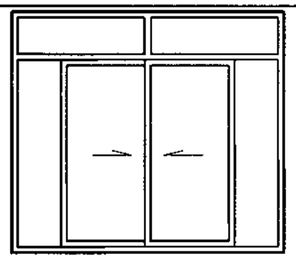
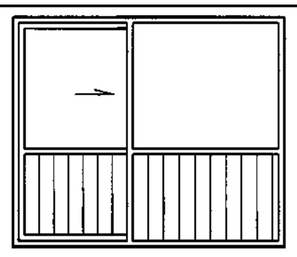
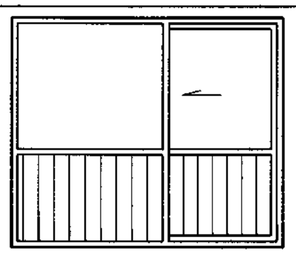
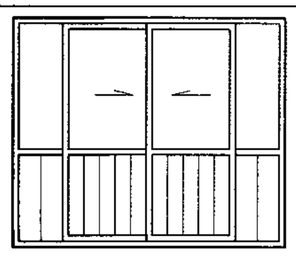
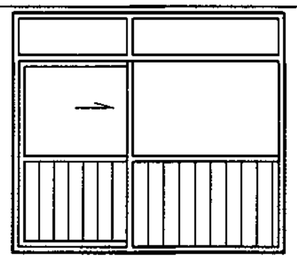
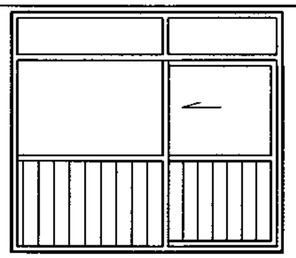
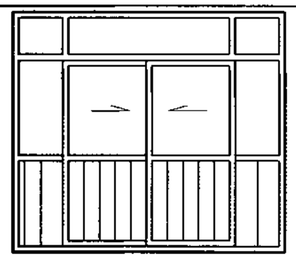
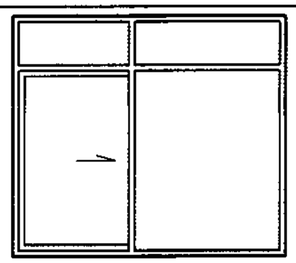
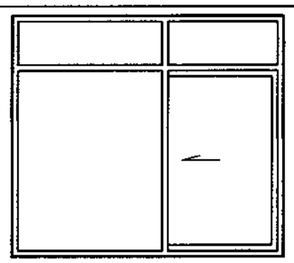
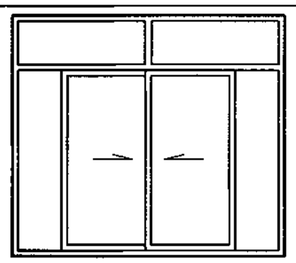
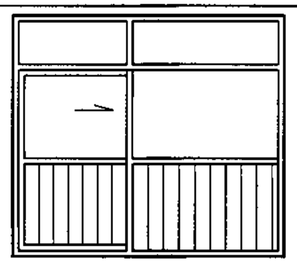
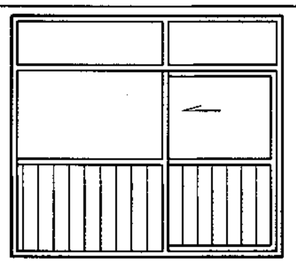
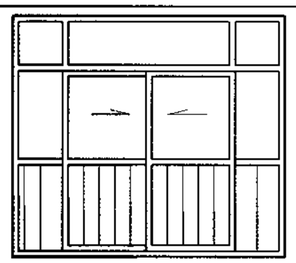
审核	陈海丰	校对	张集锋	设计	张任巍

洞口	2400
2000	
2100	
2400	 
2500	

推拉门立面图

图集号	07J604
页	46

审核	陈海丰		校对	张集锋		设计	张任巍	

洞口	2700
2000	2720TM1  2720TM2  2720TM3  2720TM4  2720TM5  2720TM6 
2100	2721TM1  2721TM2  2721TM3  2721TM4  2721TM5  2721TM6 
2400	2724TM1  2724TM2  2724TM3  2724TM4  2724TM5  2724TM6 
	2724TM9  2724TM10  2724TM11 
2500	2725TM1  2725TM2  2725TM3  2725TM4  2725TM5  2725TM6 

推拉门立面图

图集号	07J604
页	47

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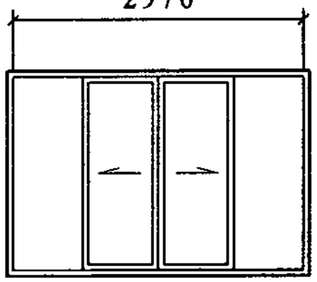
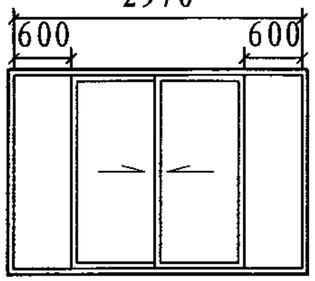
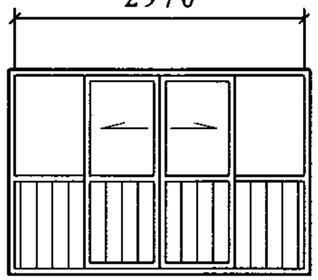
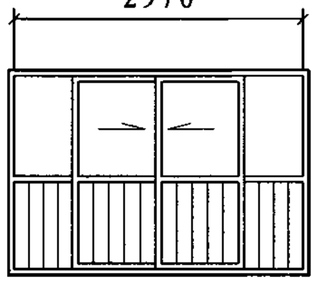
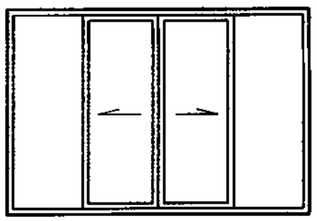
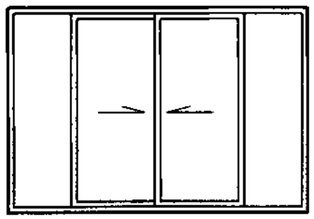
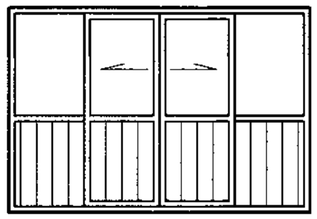
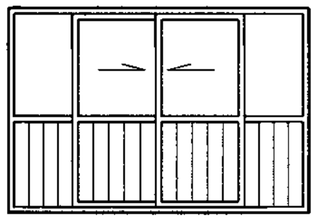
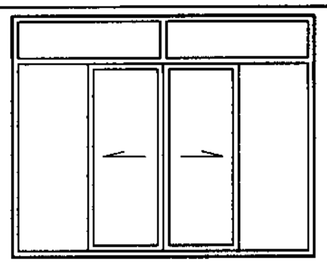
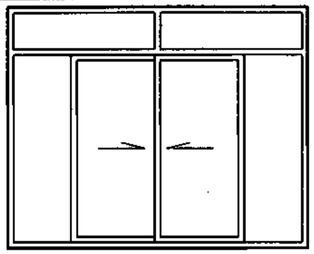
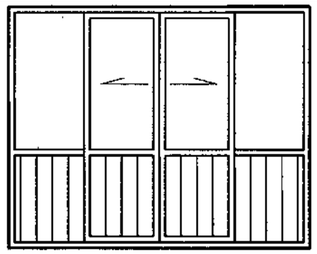
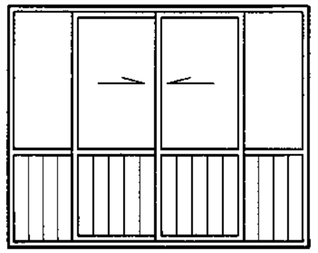
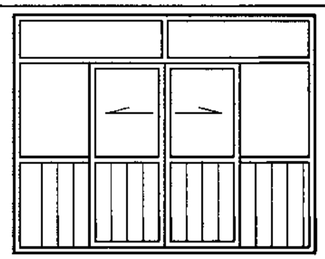
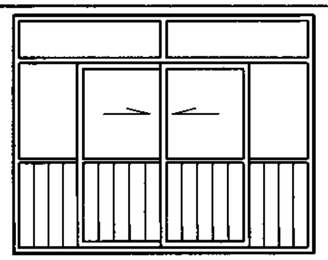
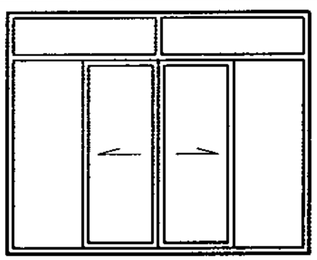
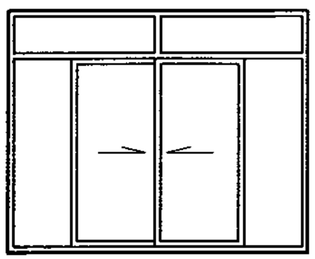
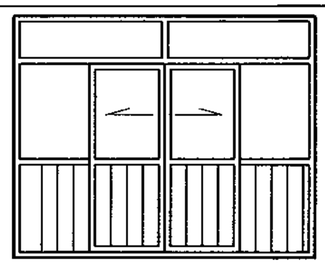
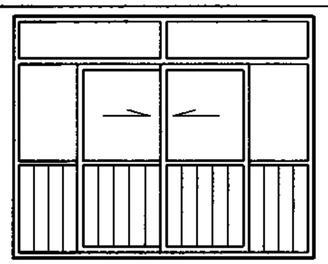
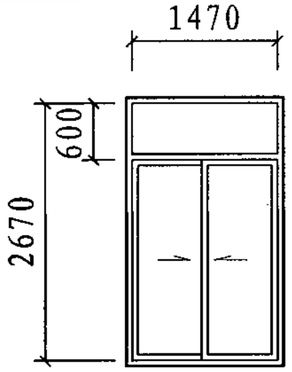
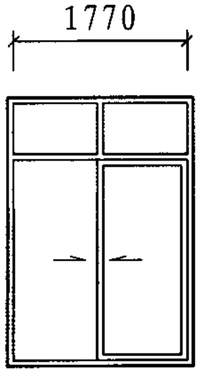
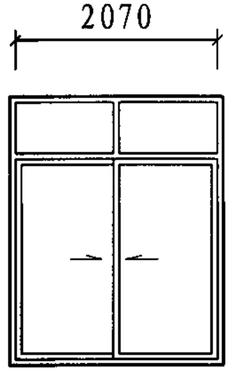
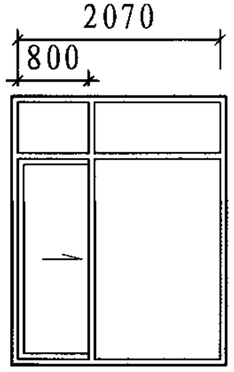
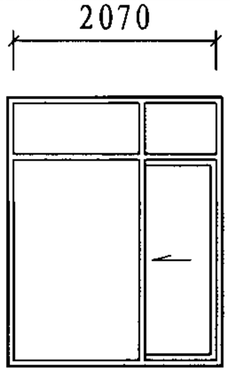
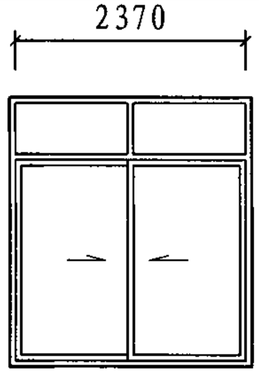
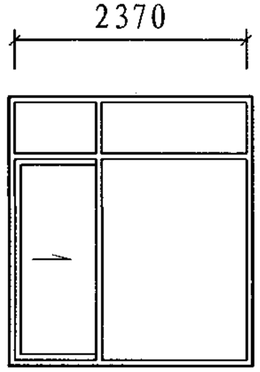
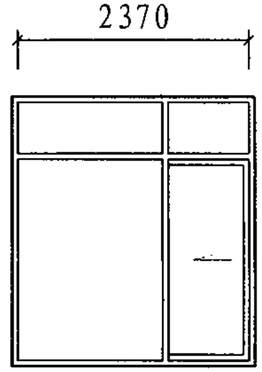
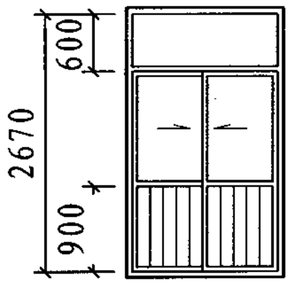
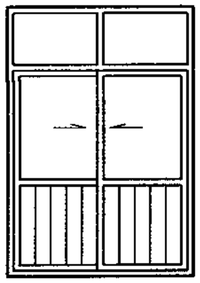
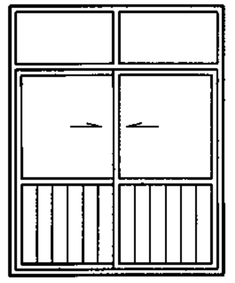
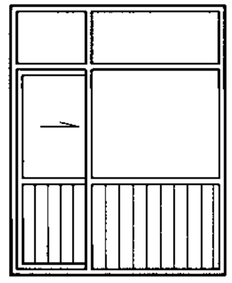
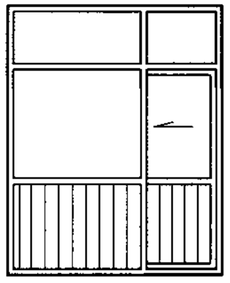
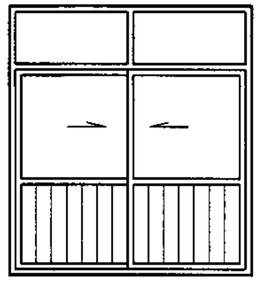
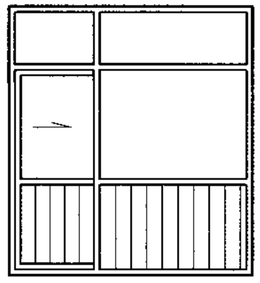
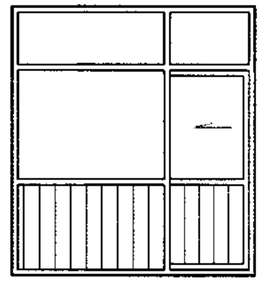
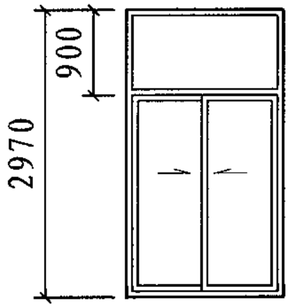
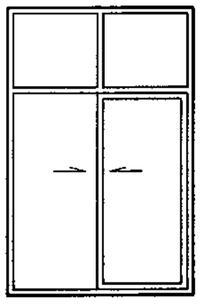
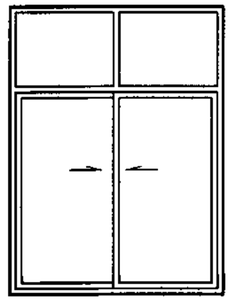
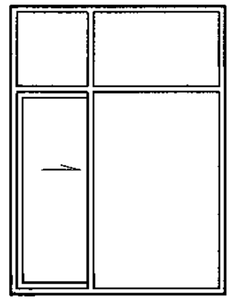
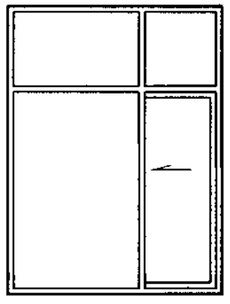
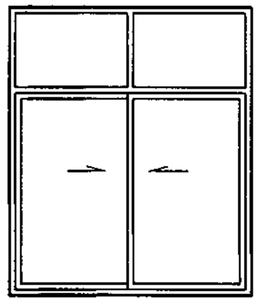
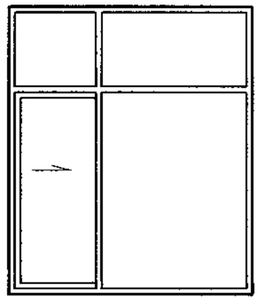
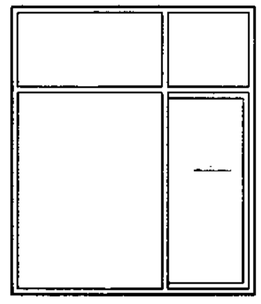
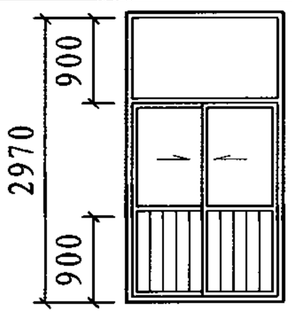
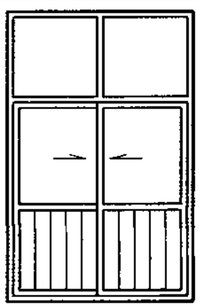
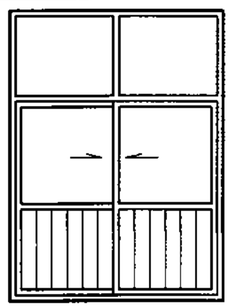
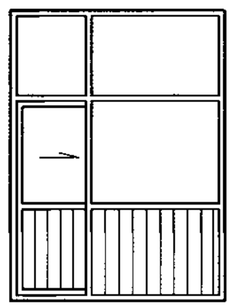
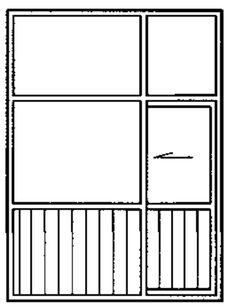
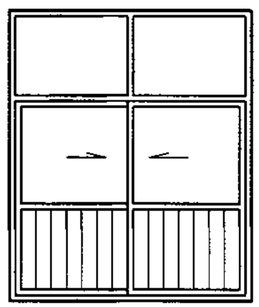
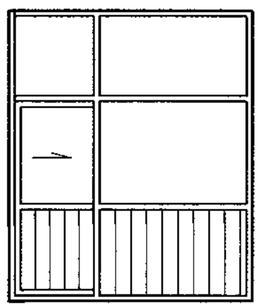
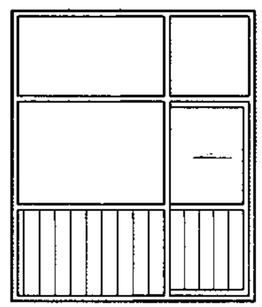
2000	1970 900  3020TM1
	 3020TM2
	 3020TM3
	 3020TM4
2100	2070 900  3021TM1
	 3021TM2
	 3021TM3
	 3021TM4
2400	2370 400 900  3024TM1
	 3024TM2
	 3024TM3
	 3024TM4
	2370 400 900  3024TM5
	 3024TM6
2500	2470 500 900  3025TM1
	 3025TM2
	 3025TM3
	 3025TM4

推拉门立面图

图集号	07J604
页	48

审核	陈海丰		校对	张集锋		设计	张任巍	

洞口	1500	1800	2100			2400		
2700	 1527TM1	 1827TM1	 2127TM1	 2127TM2	 2127TM3	 2427TM1	 2427TM2	 2427TM3
	 1527TM2	 1827TM2	 2127TM4	 2127TM5	 2127TM6	 2427TM4	 2427TM5	 2427TM6
3000	 1530TM1	 1830TM1	 2130TM1	 2130TM2	 2130TM3	 2430TM1	 2430TM2	 2430TM3
	 1530TM2	 1830TM2	 2130TM4	 2130TM5	 2130TM6	 2430TM4	 2430TM5	 2430TM6

推拉门立面图

图集号	07J604
页	49

审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍

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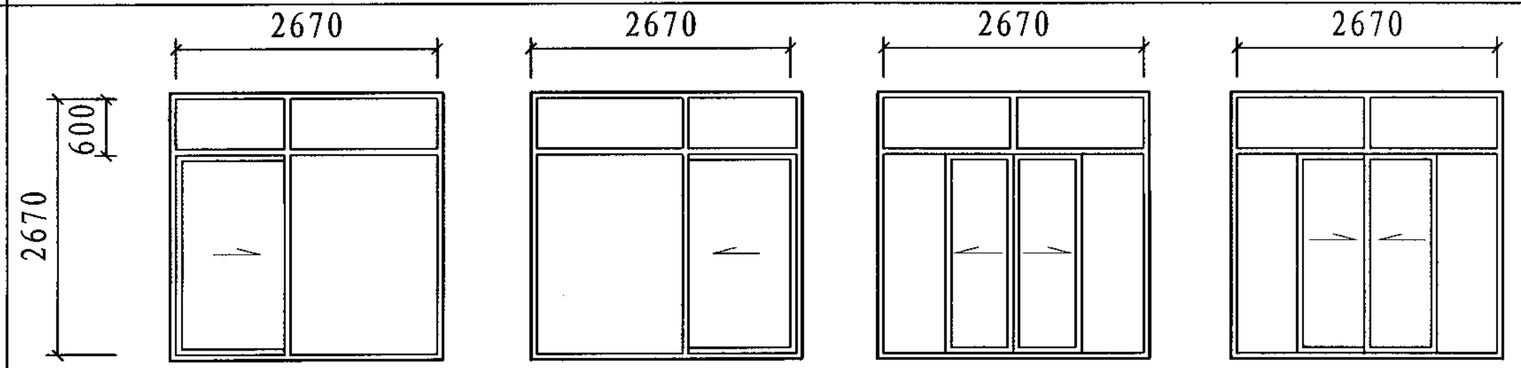
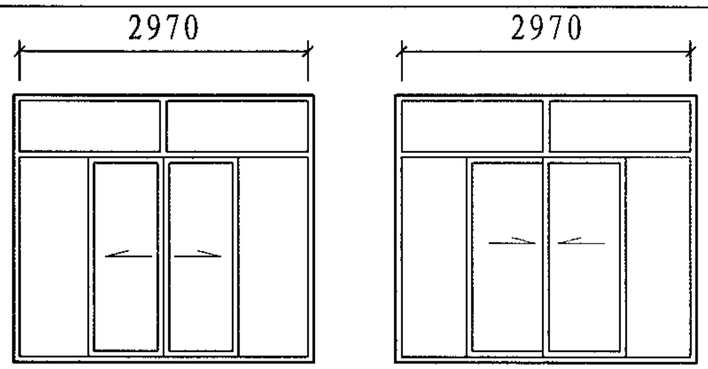
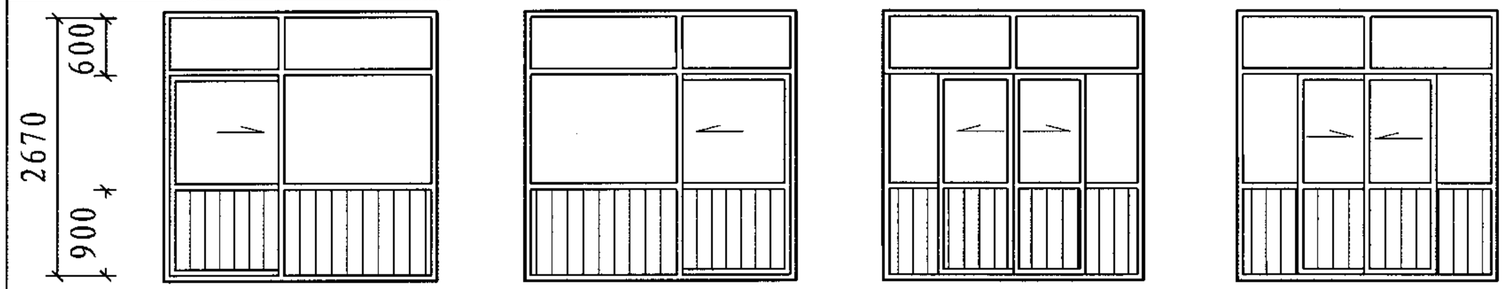
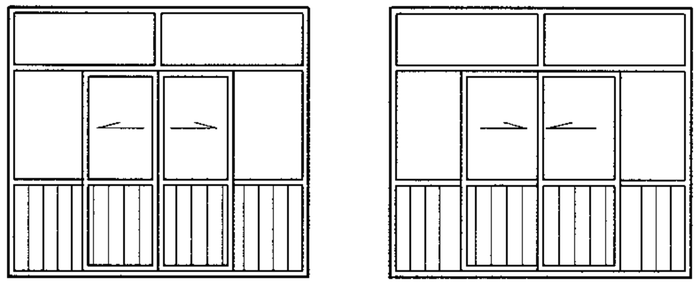
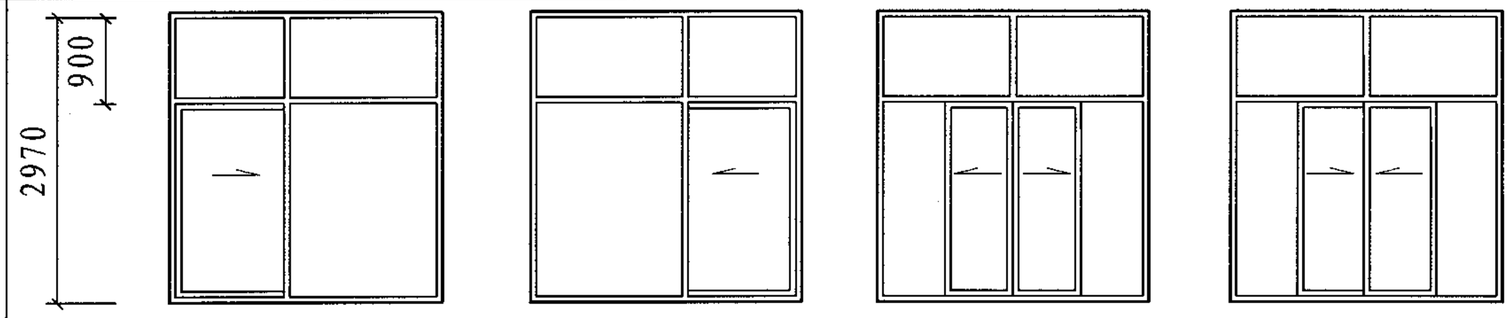
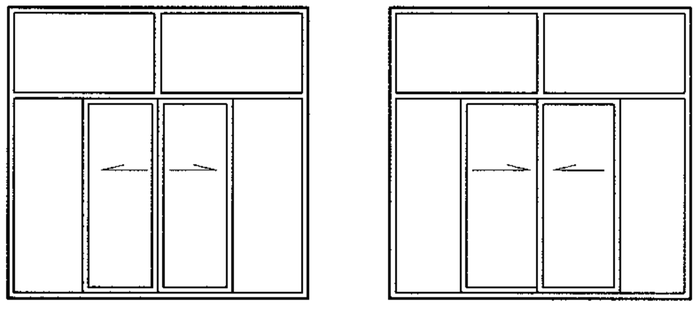
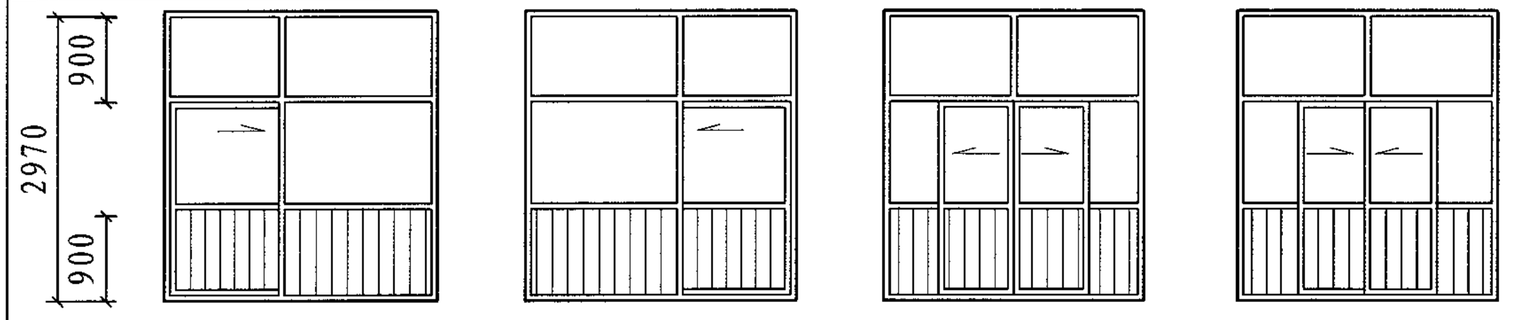
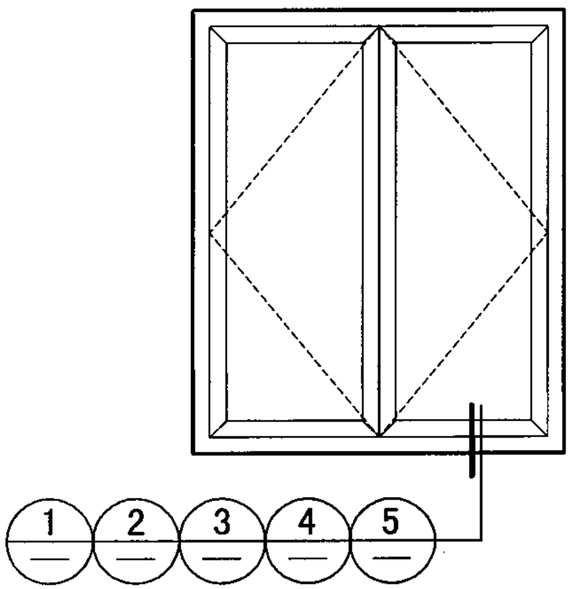
2700	 2727TM1　2727TM2　2727TM3　2727TM4	 3027TM1　3027TM2
	 2727TM5　2727TM6　2727TM7　2727TM8	 3027TM3　3027TM4
3000	 2730TM1　2730TM2　2730TM3　2730TM4	 3030TM1　3030TM2
	 2730TM5　2730TM6　2730TM7　2730TM8	3030TM3　3030TM4

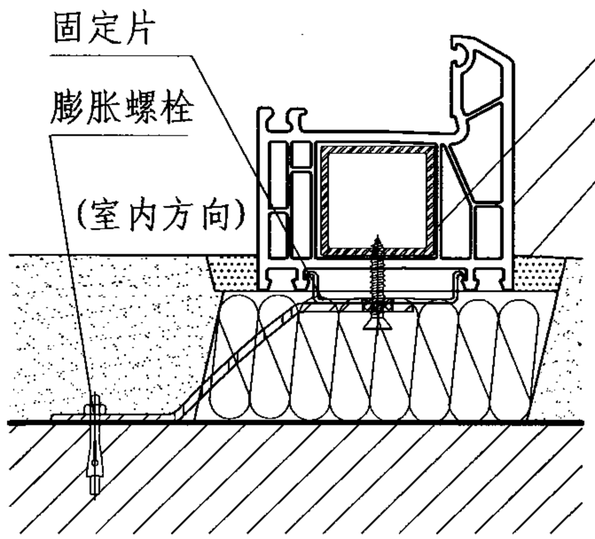
推拉门立面图

图集号	07J604
页	50

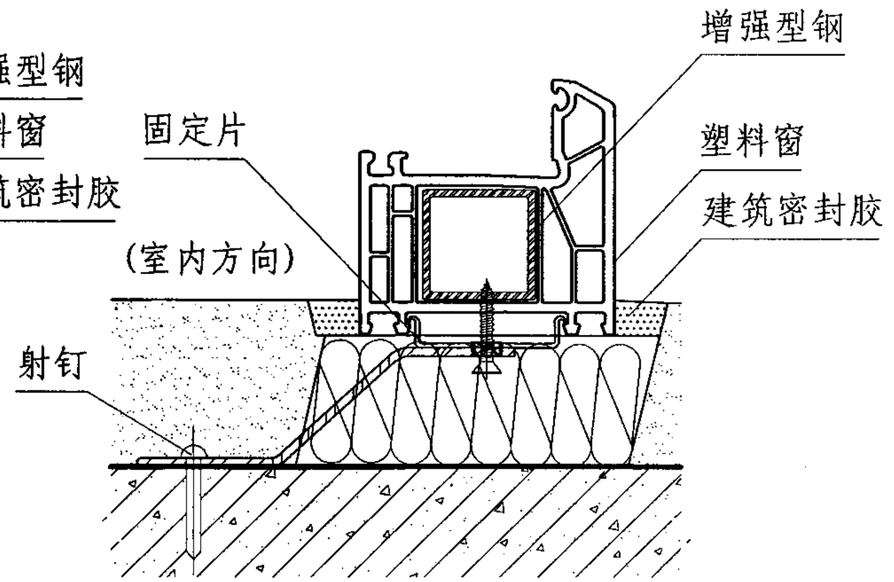
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍



窗立面图



① 金属膨胀螺栓连接



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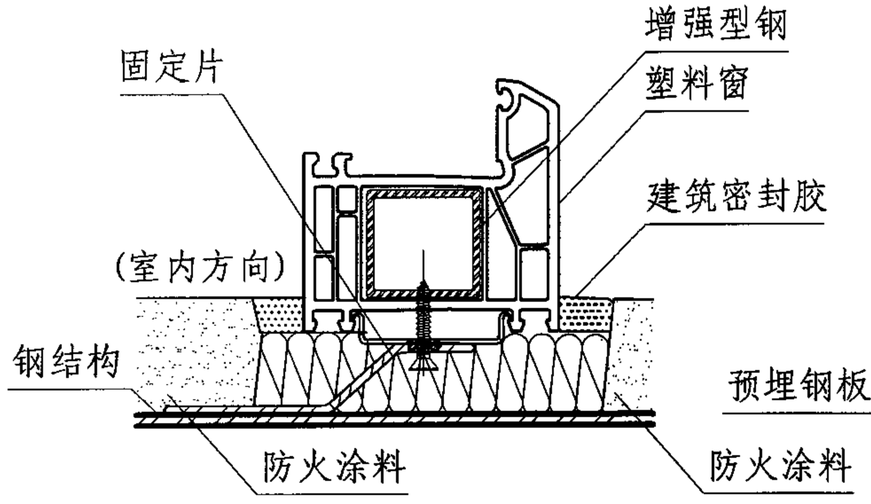

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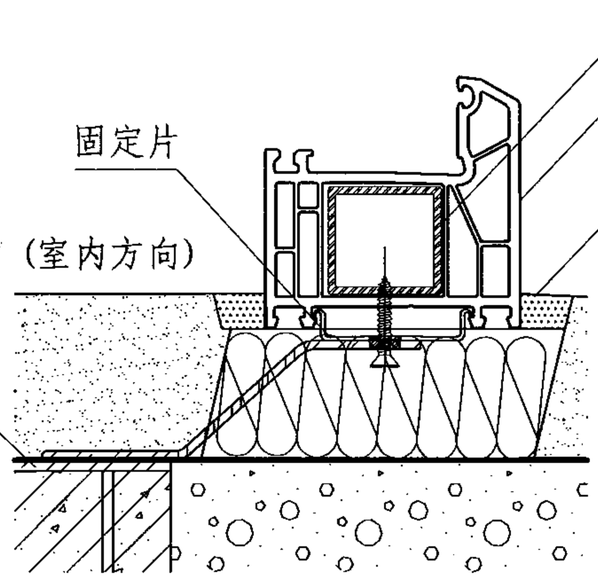
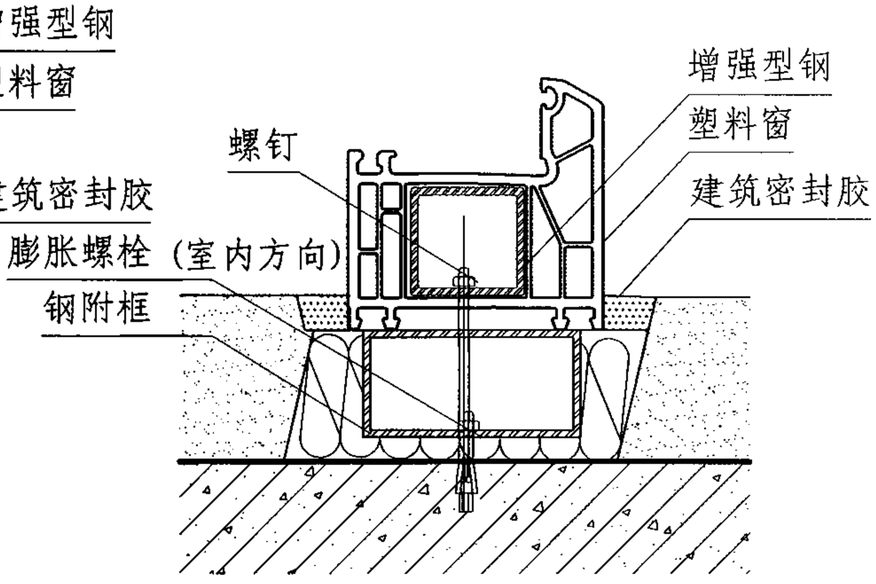


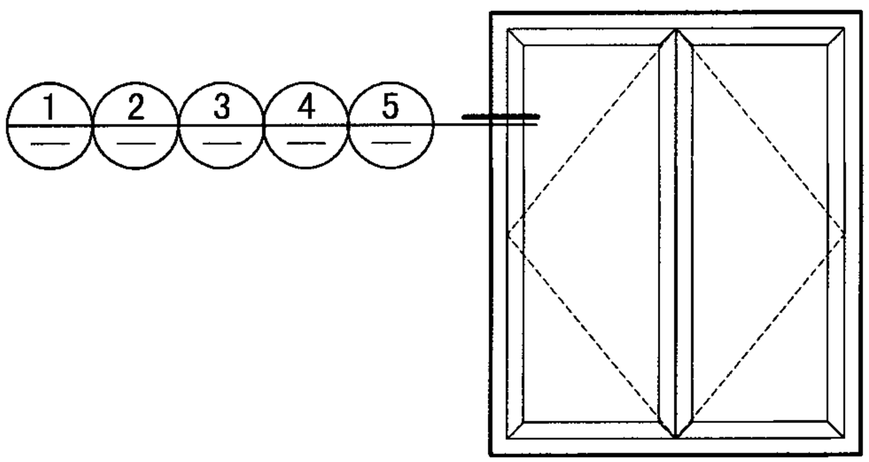
④ 预埋件焊接连接



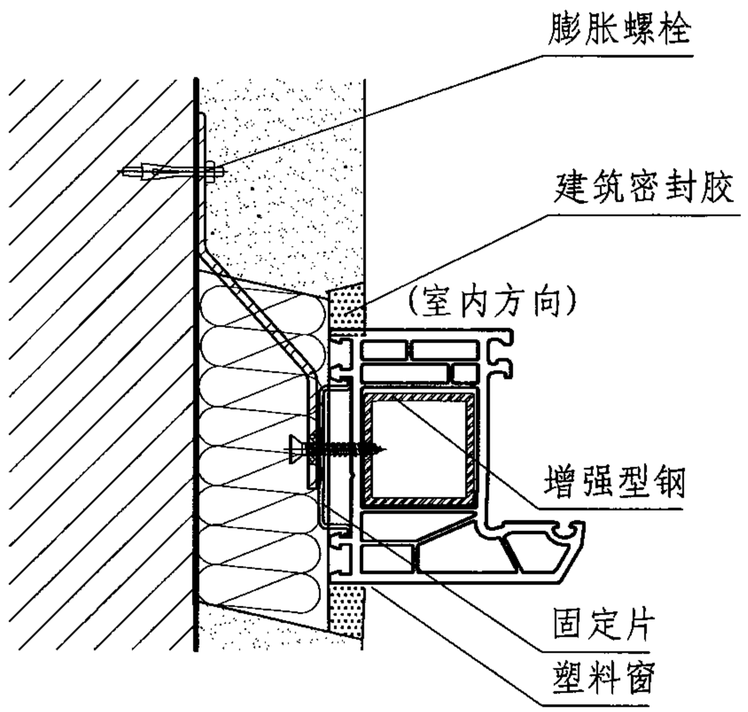
⑤ 钢附框连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条。

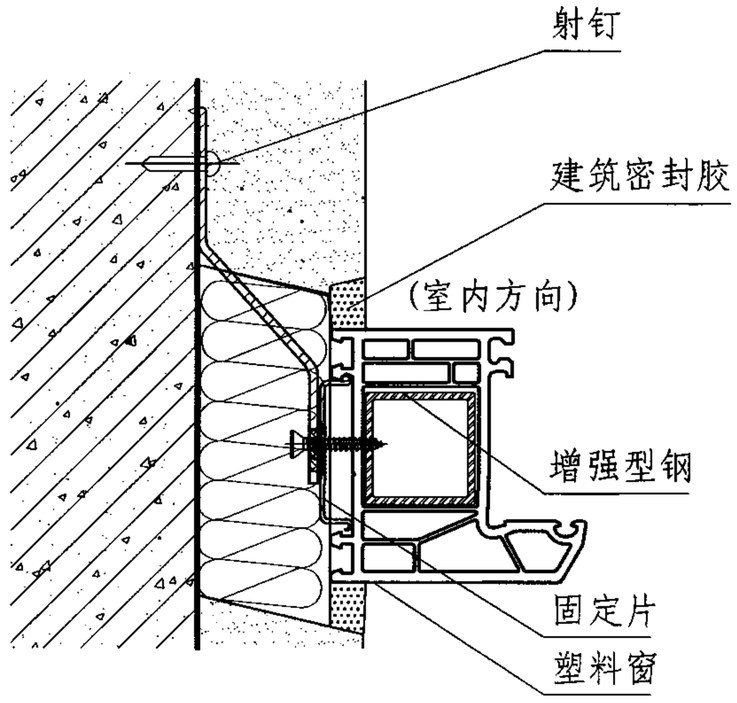
基本门窗安装节点图										图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍		页	51



窗立面图



① 金属膨胀螺栓连接



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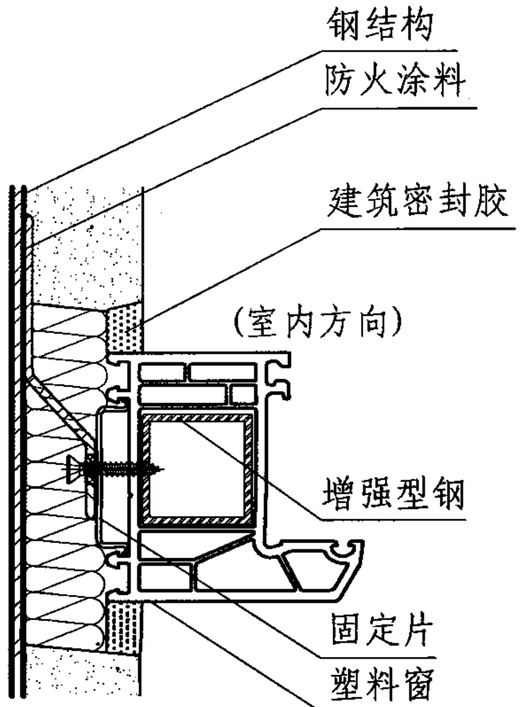

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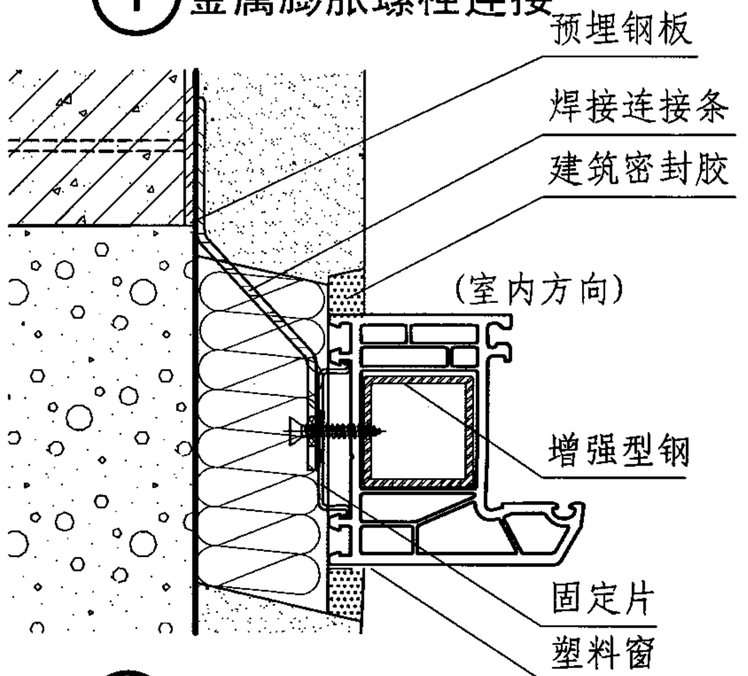

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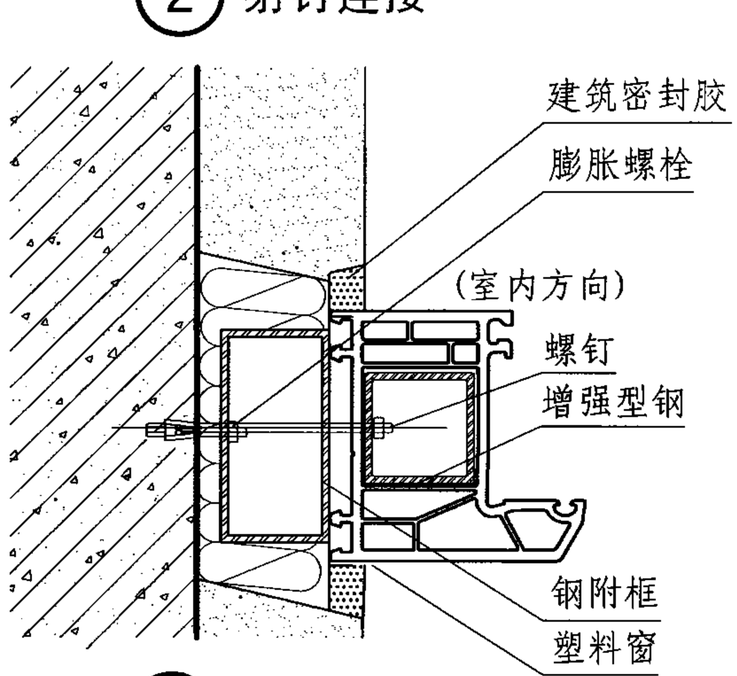
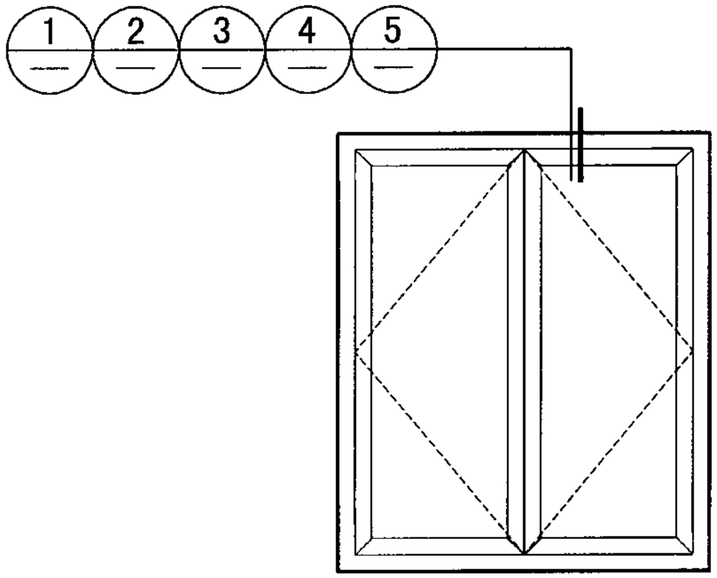


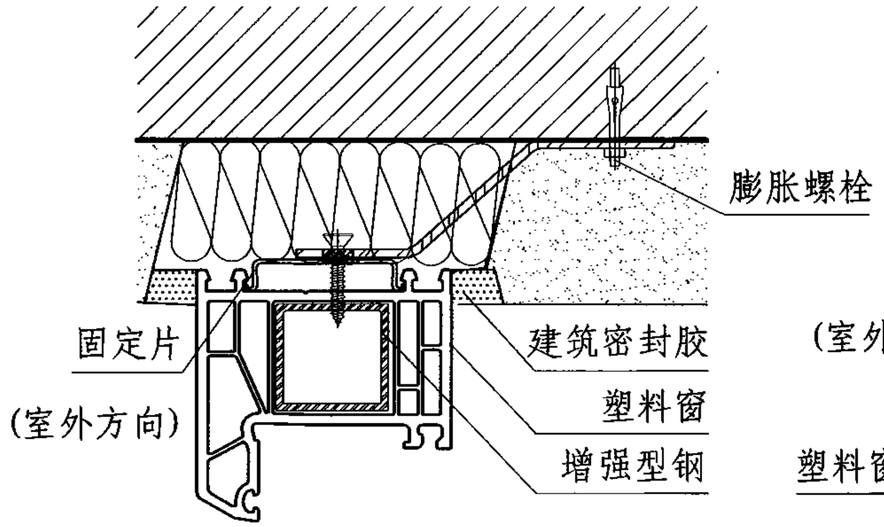
⑤ 钢附框连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条。

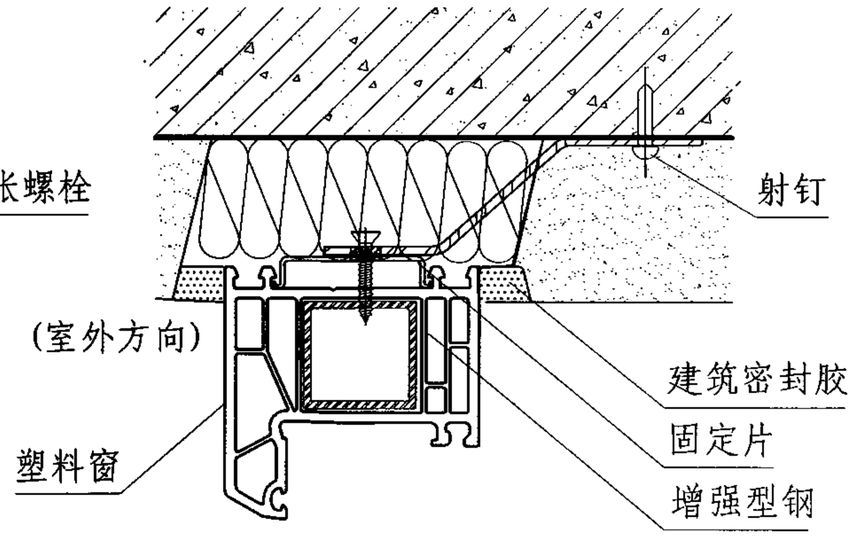
基本门窗安装节点图									图集号	07J604
审核	陈海丰		校对	张集锋		设计	张任巍		页	52



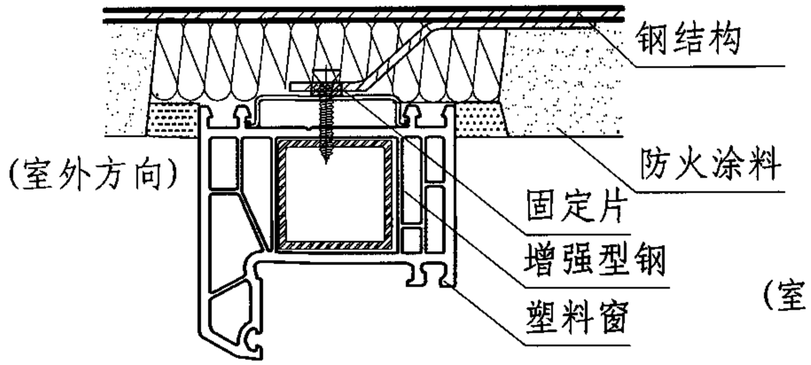
窗立面图



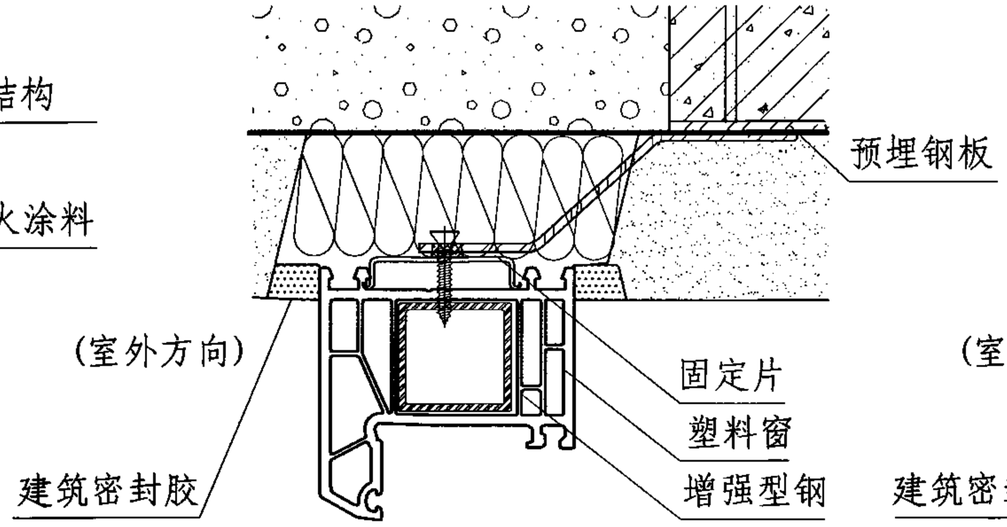
① 金属膨胀螺栓连接



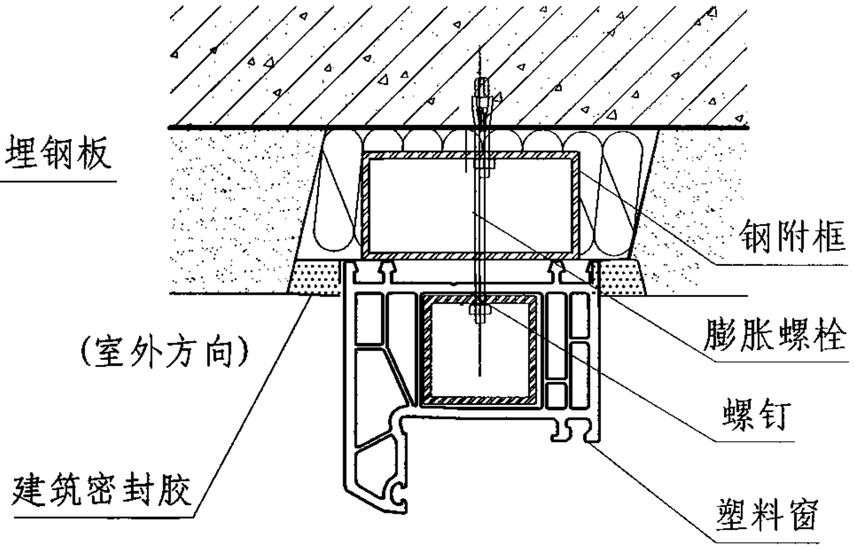
② 射钉连接



③ 焊接连接



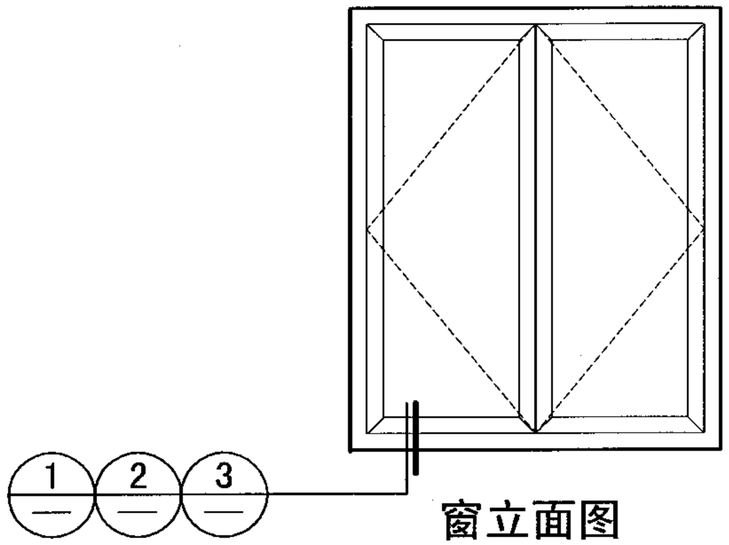
④ 预埋件焊接连接



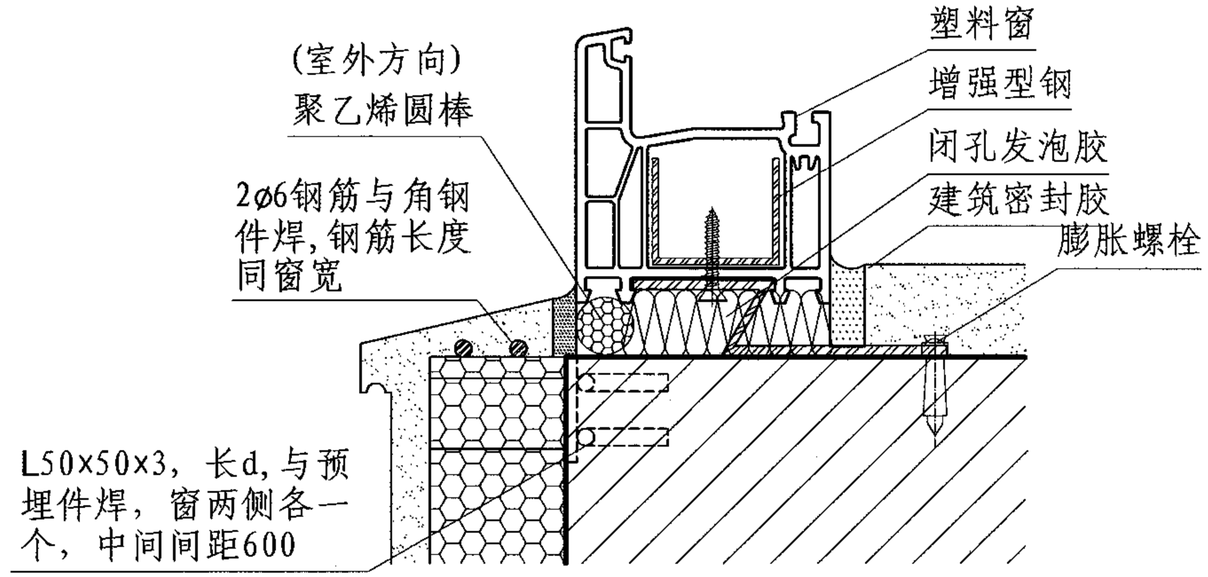
⑤ 钢附框连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条。

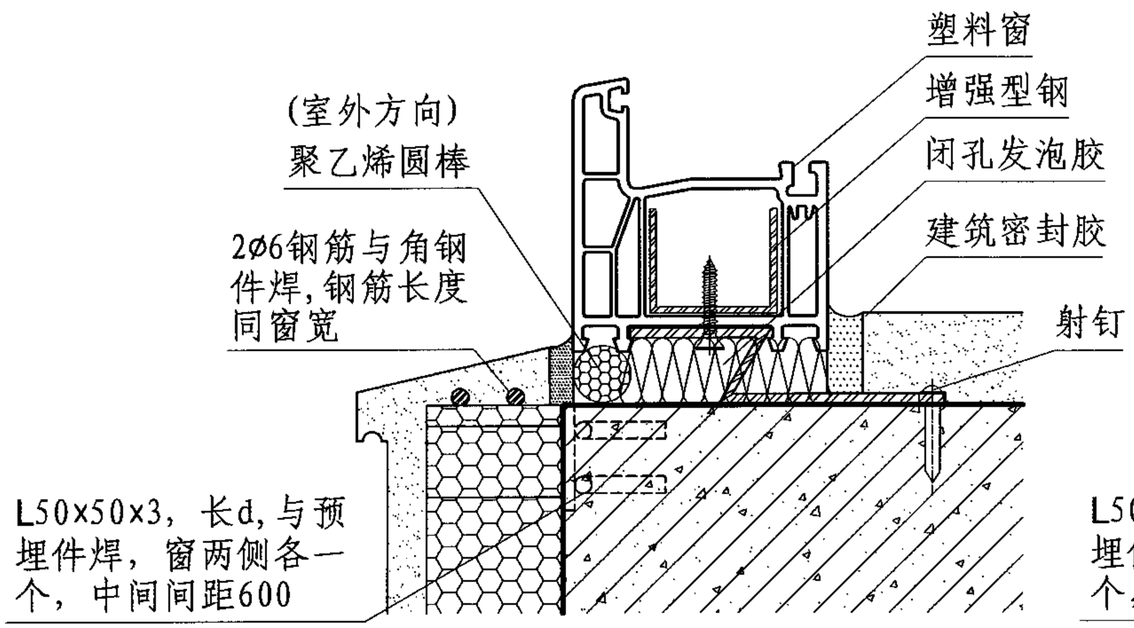
基本门窗安装节点图									图集号	07J604
审核	陈海丰		校对	张集锋		设计	张任巍		页	53



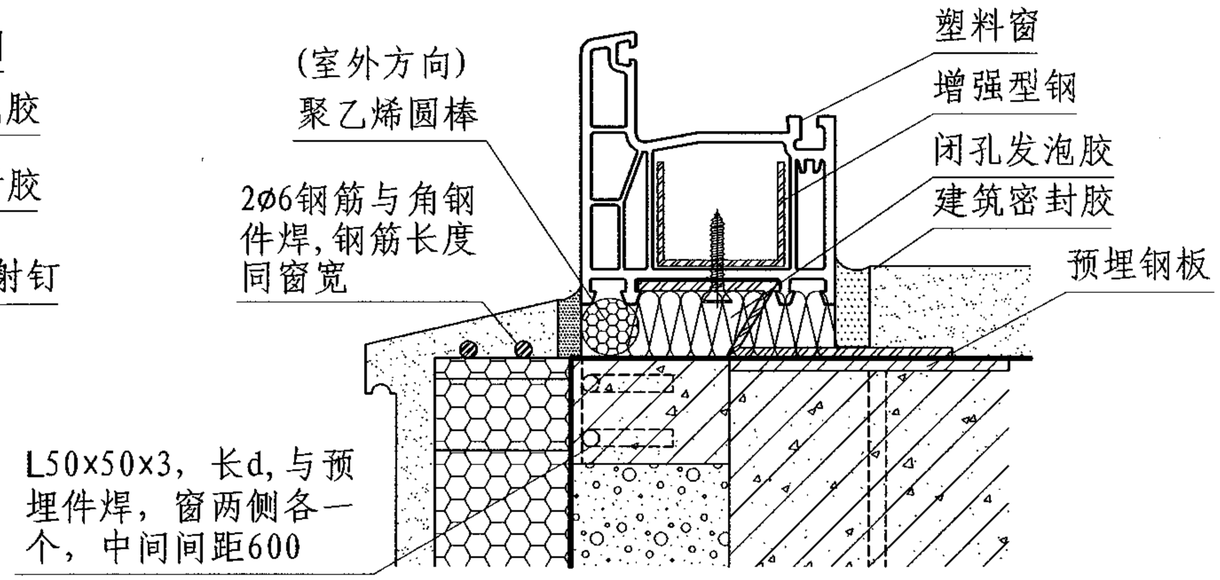
窗立面图



① 金属膨胀螺栓连接



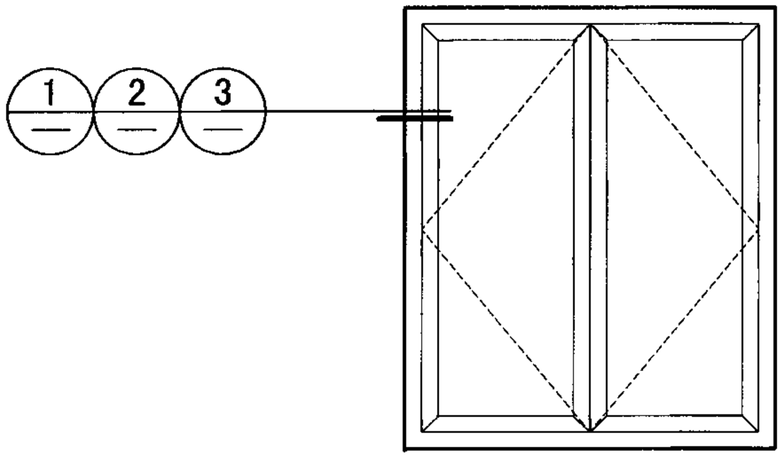
② 射钉连接



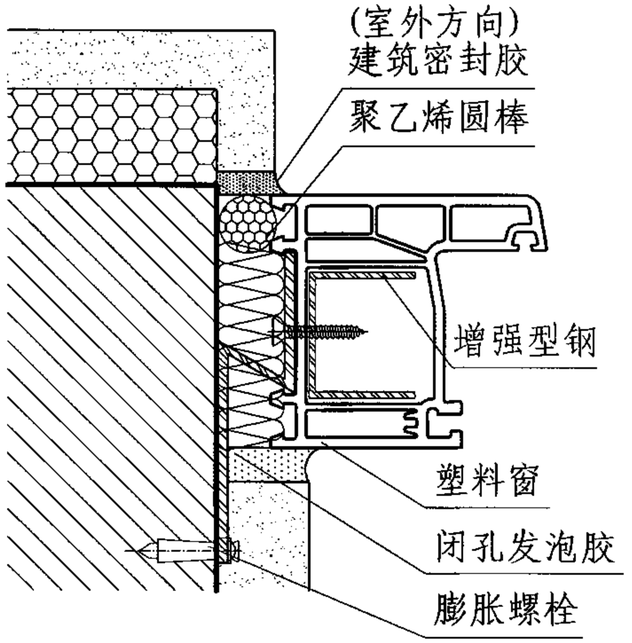
③ 预埋件焊接连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条;
5. 保温层较薄时，可不采用预埋钢架。

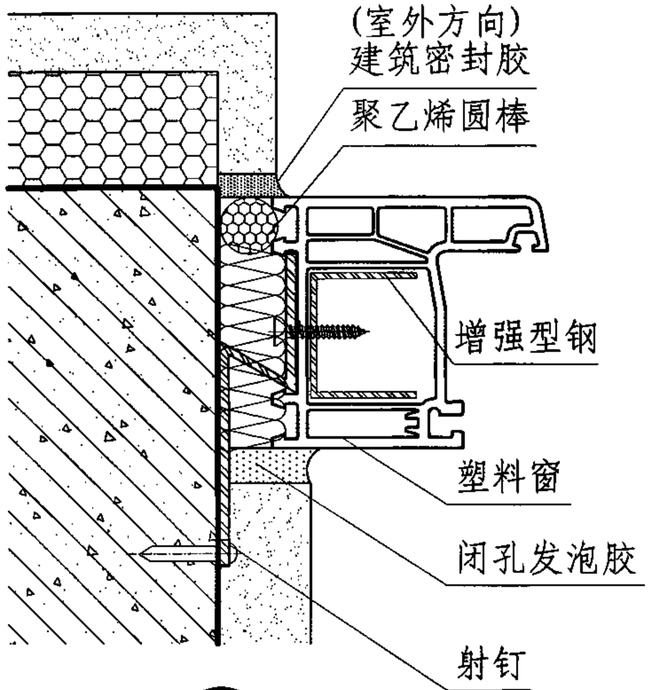
基本窗与节能墙体（带外保温）安装节点图									图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍	页	54



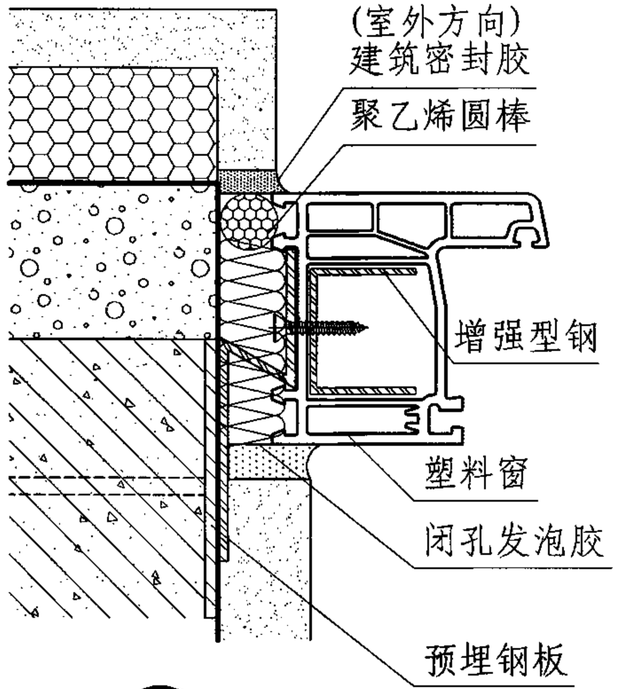
窗立面图



① 金属膨胀螺栓连接



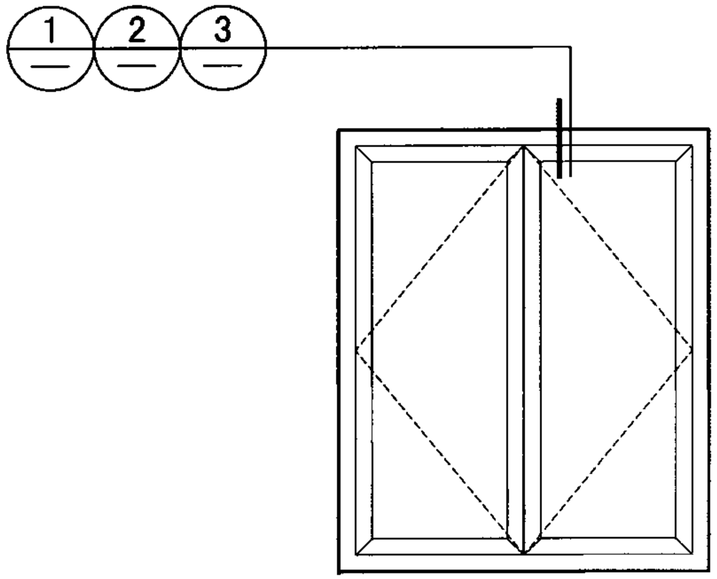
② 射钉连接



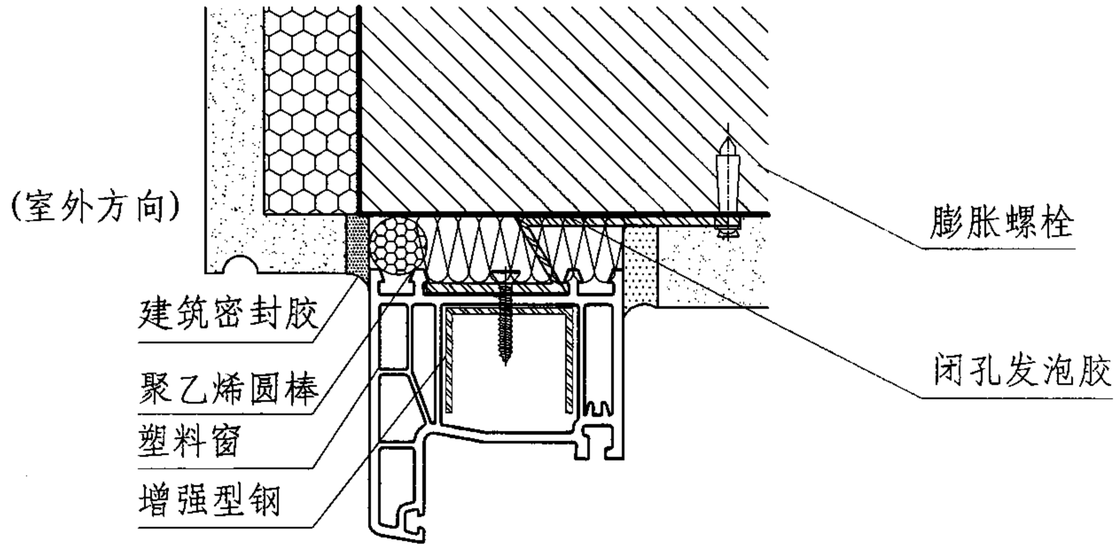
③ 预埋件焊接连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条。

基本窗与节能墙体（带外保温）安装节点图									图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍	页	55



窗立面图



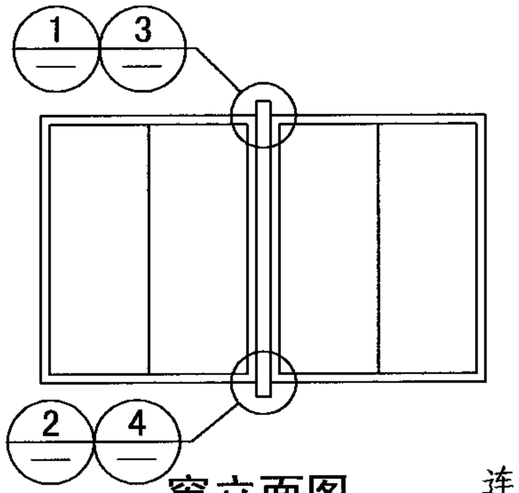
① 金属膨胀螺栓连接

② 射钉连接

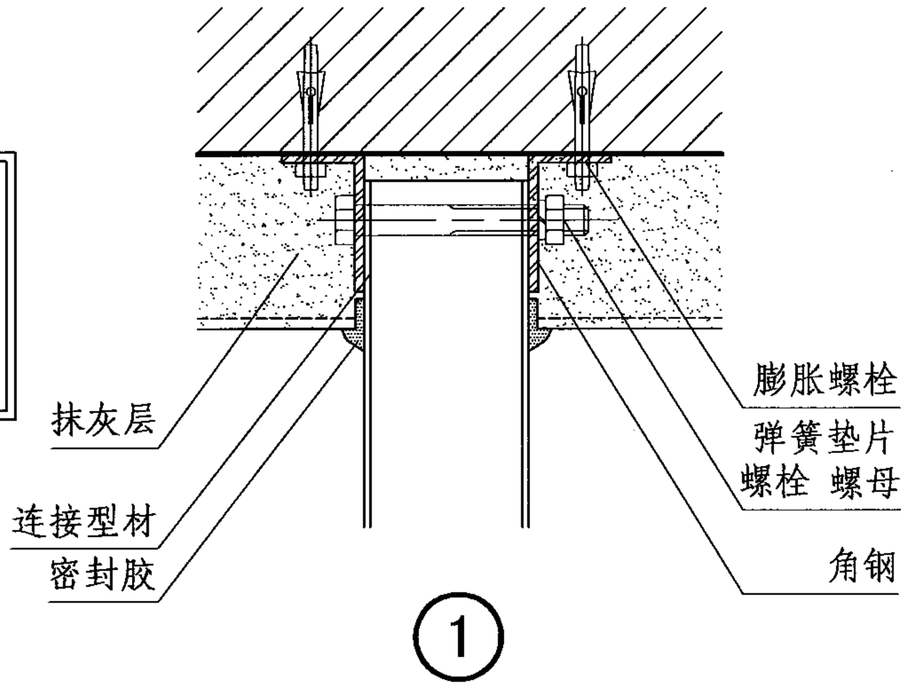
③ 预埋件焊接连接

注：1. 型材与墙体间安装牢固。
2. 窗与墙体缝隙的内腔要填充绝热材料。
3. 型材与墙体间的安装方法符合JGJ103要求。
4. 固定连接件尺寸见总说明第7.4条。

基本窗与节能墙体（带外保温）安装节点图									图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍	页	56



窗立面图



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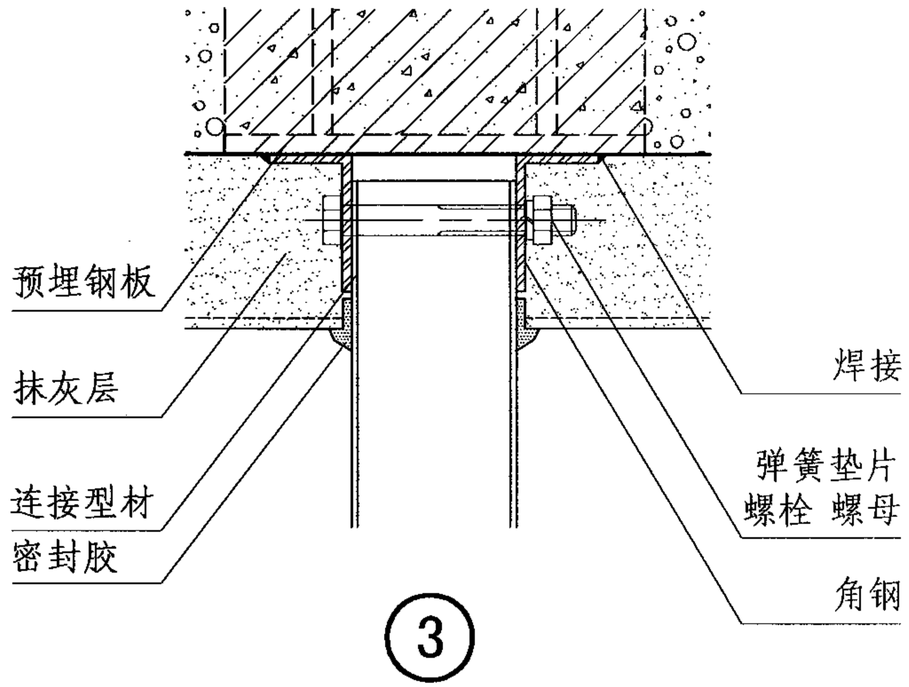
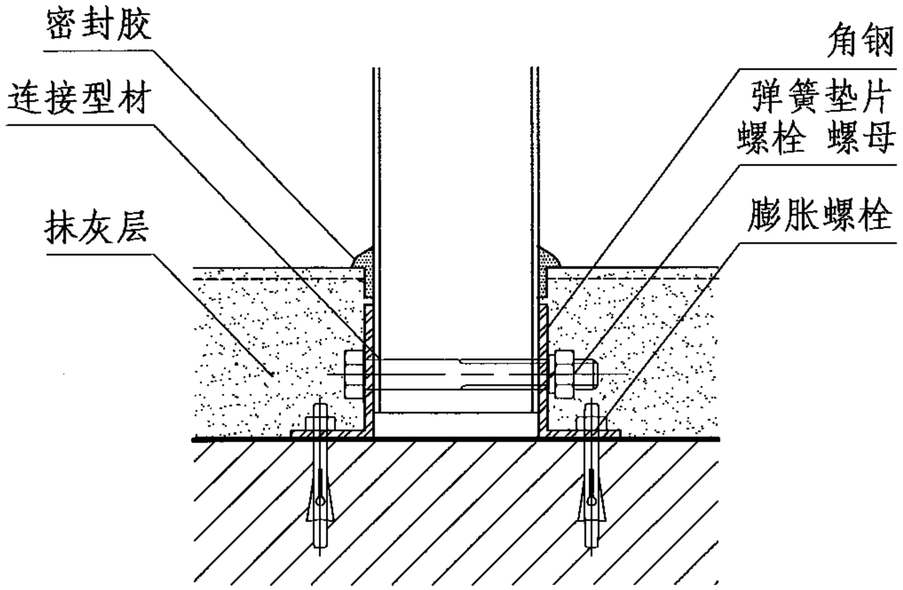
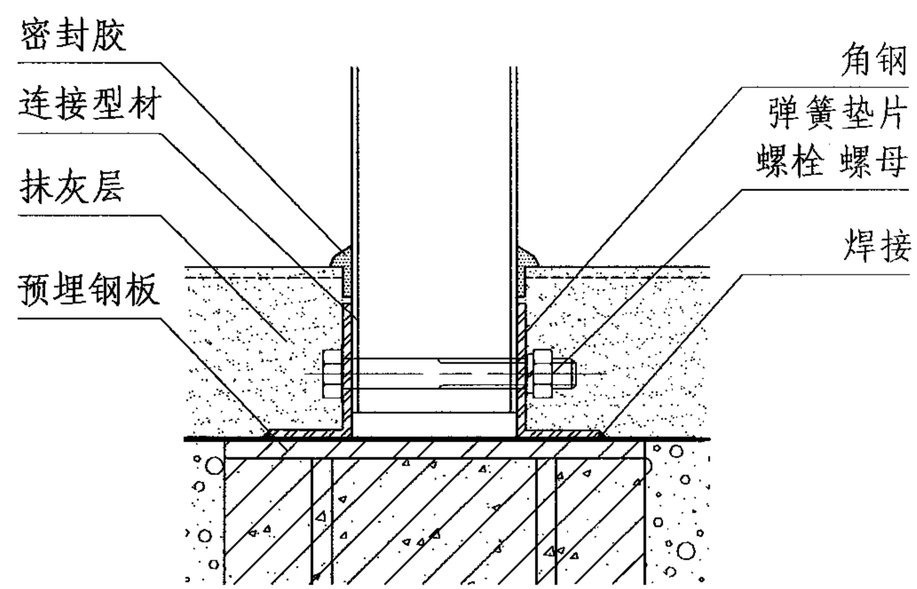


③



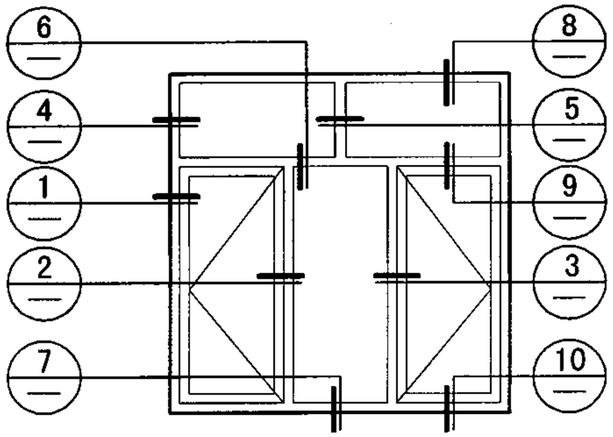
②



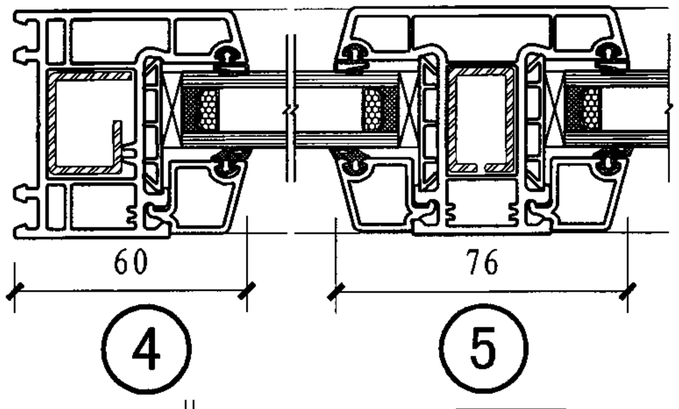
④

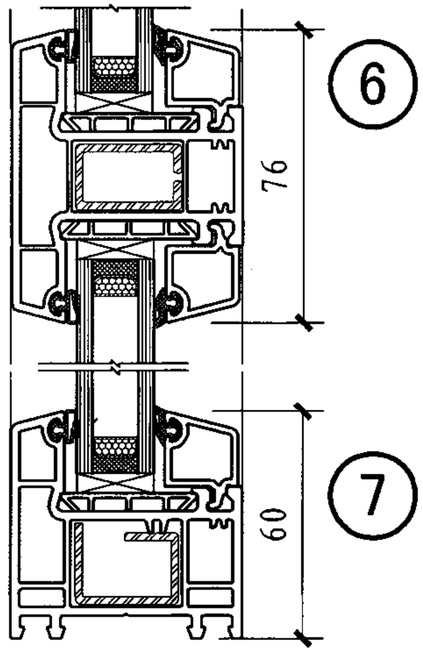
注：1. 型材与墙体间连接牢固，不得松动。
2. 型材与墙体间的安装可参照基本窗安装方法。
3. 连接件需进行防腐处理。
4. 固定连接件尺寸见总说明第7.4条。

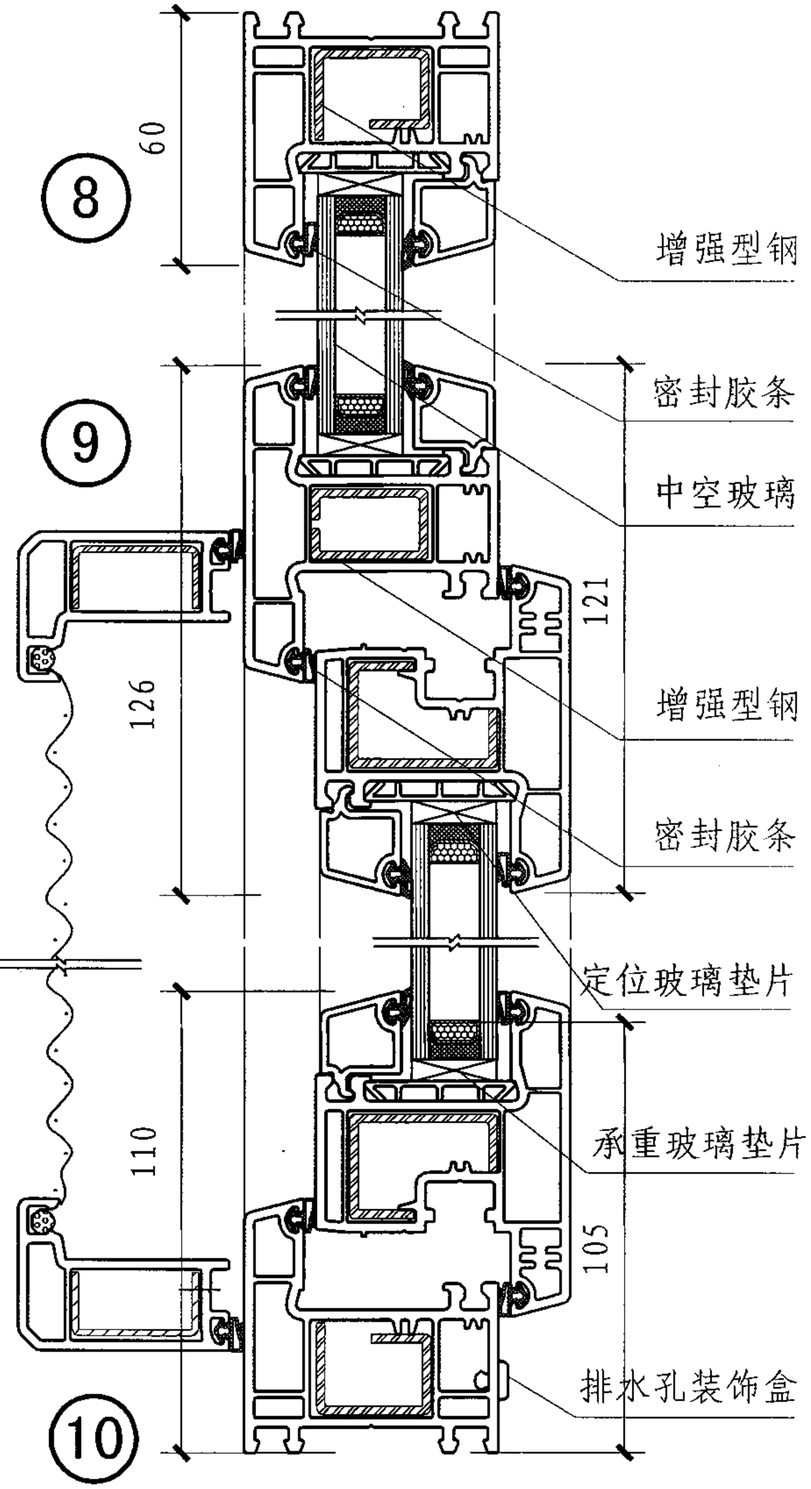
组合窗拼接安装节点图									图集号	07J604
审核	陈海丰		校对	张集锋		设计	张任巍		页	57

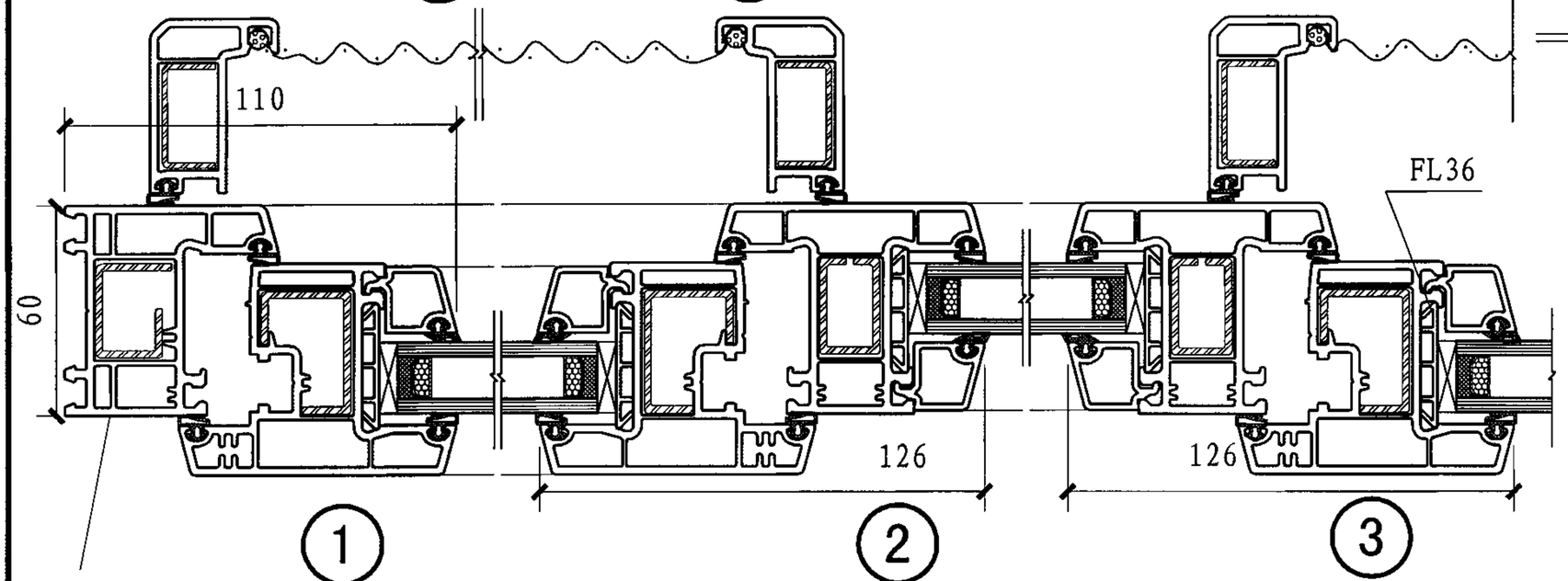


窗立面图



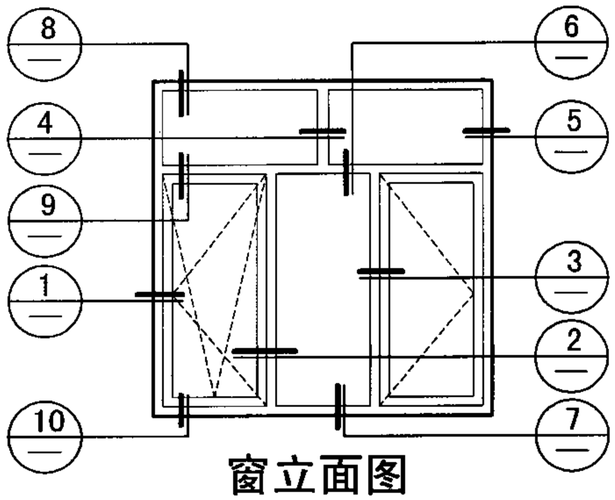




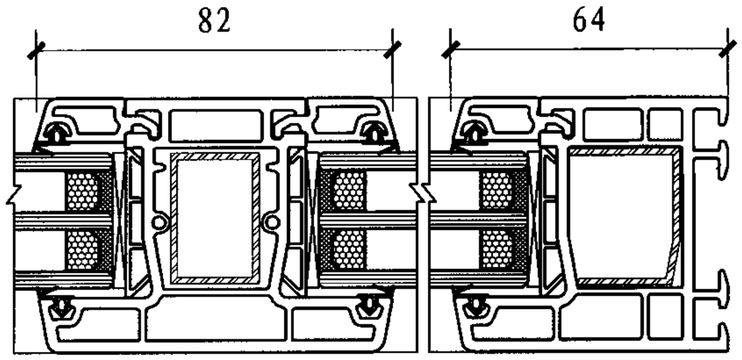


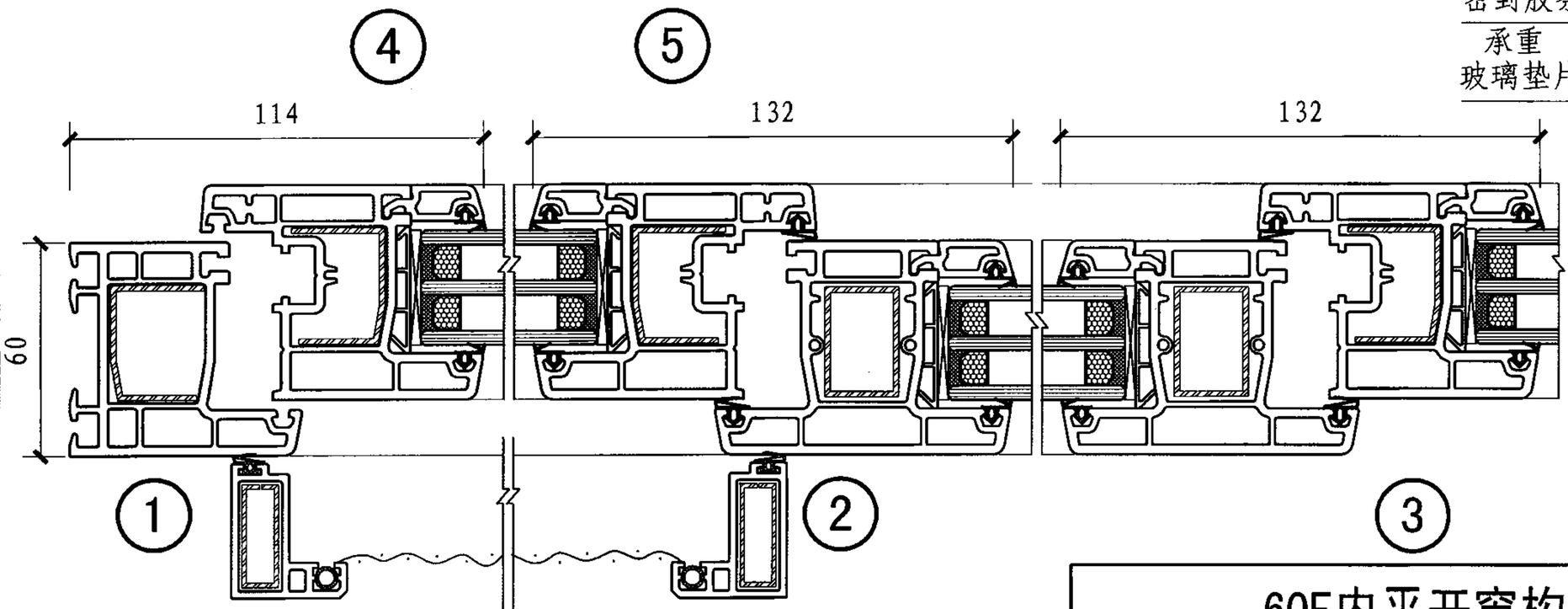
本图根据大连实德集团有限公司提供的资料编制。

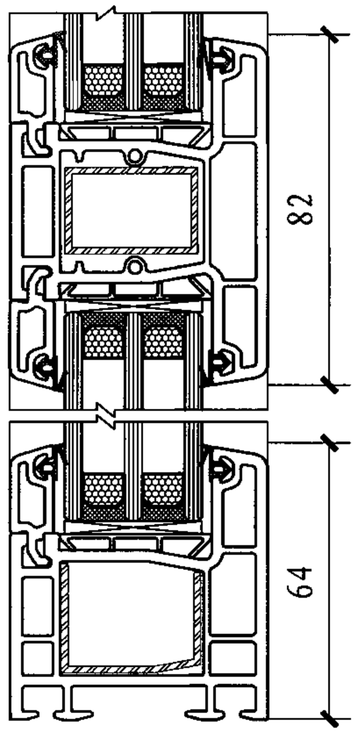
60外平开窗构造图										图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍		页	58

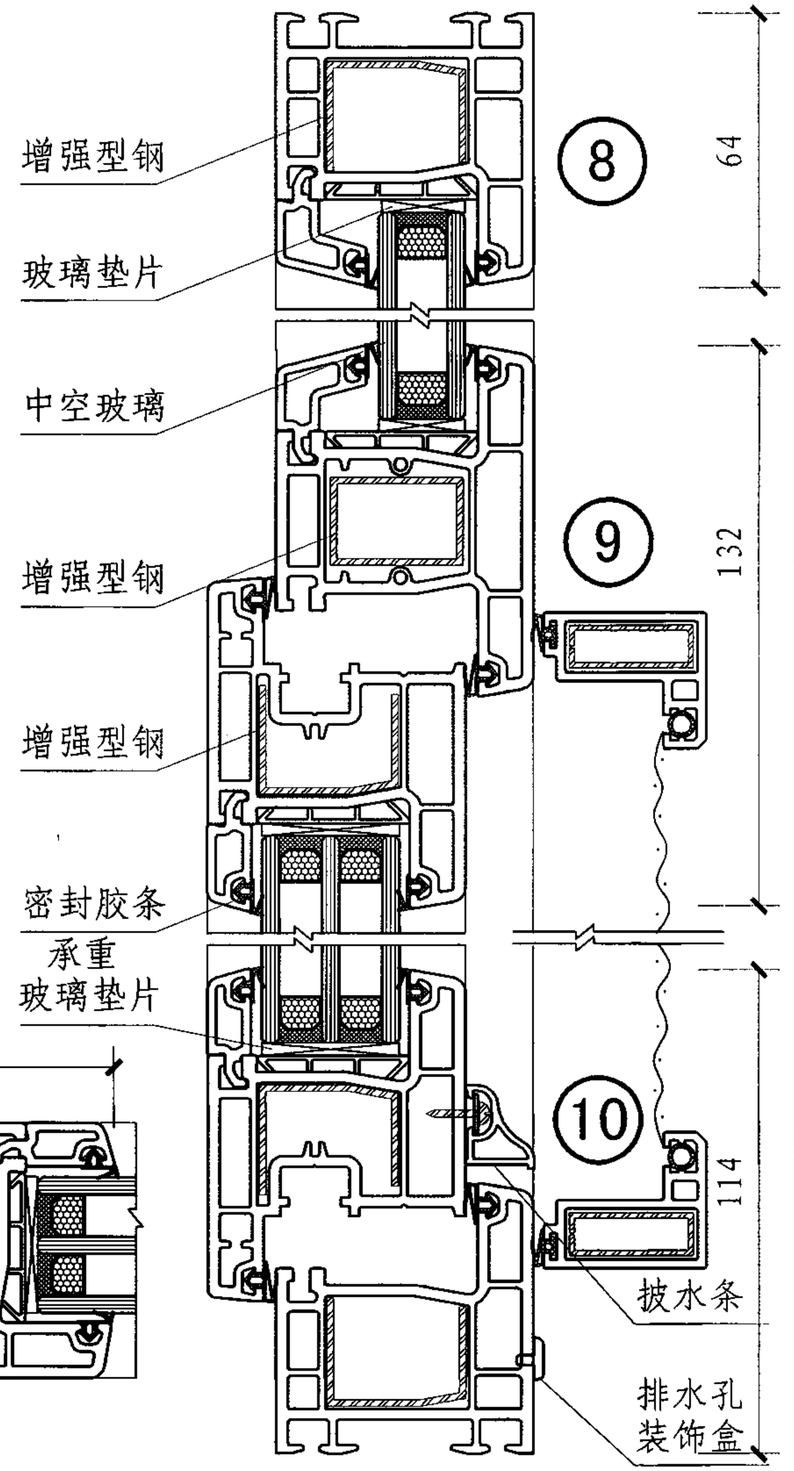


窗立面图



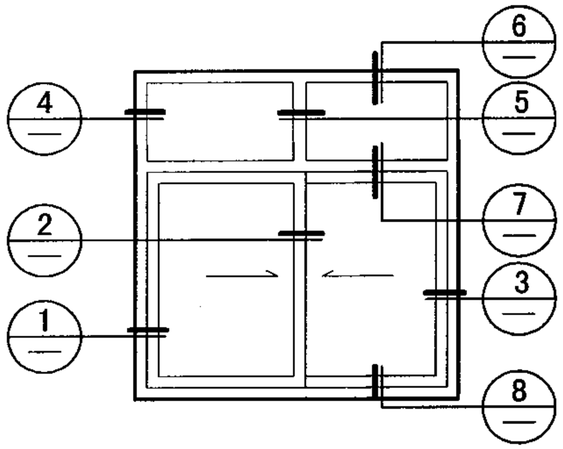




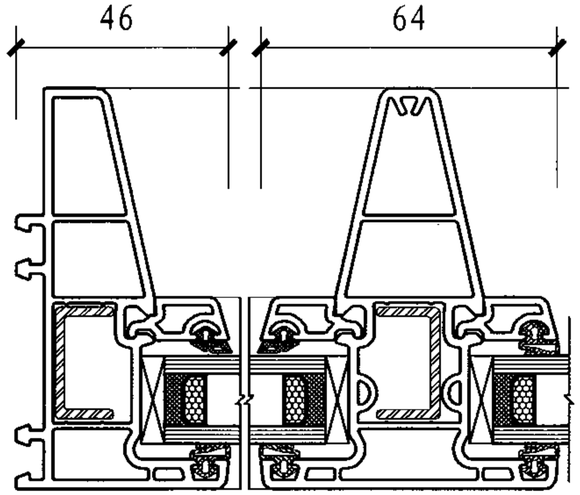


本图根据哈尔滨中大化学建材有限公司提供的资料编制。

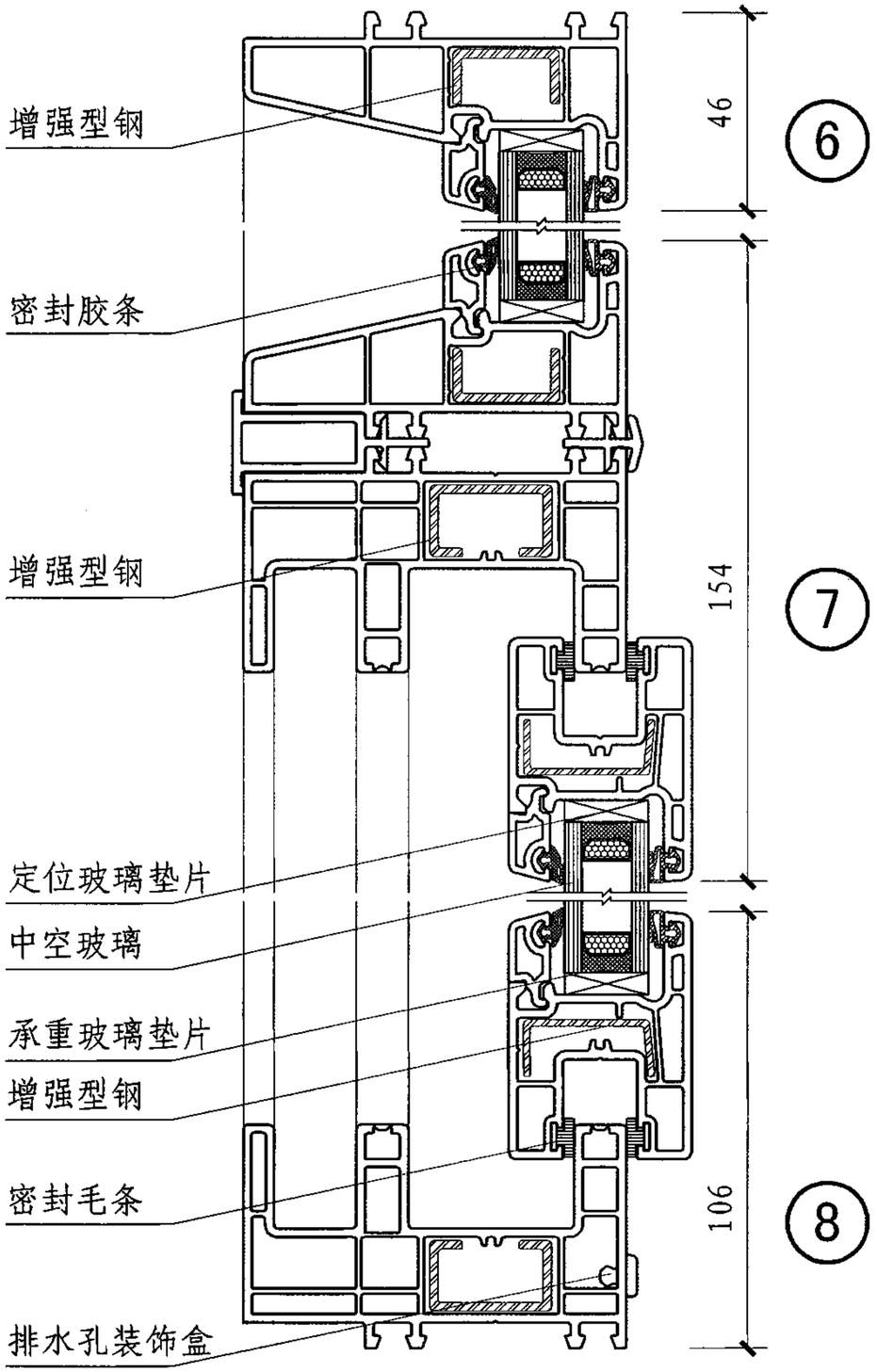
60F内平开窗构造图										图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍		页	59

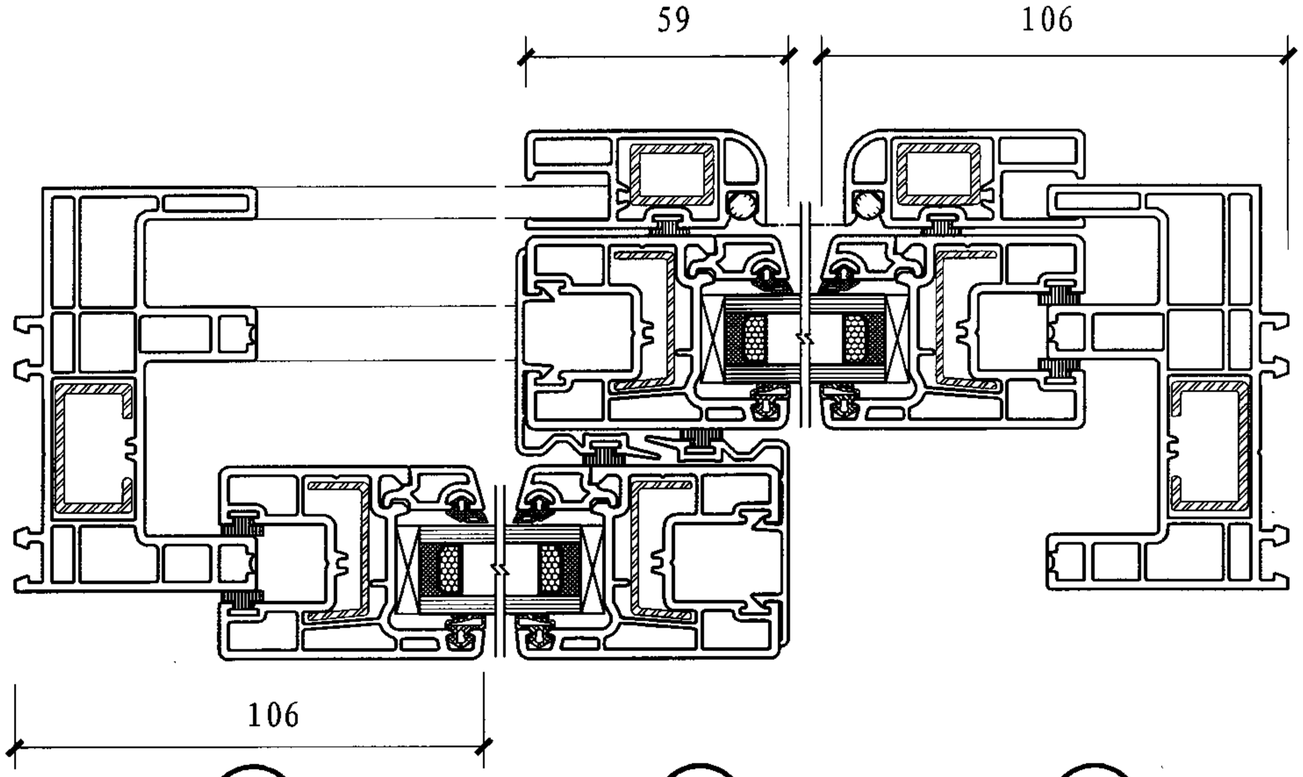


窗立面图



4　5



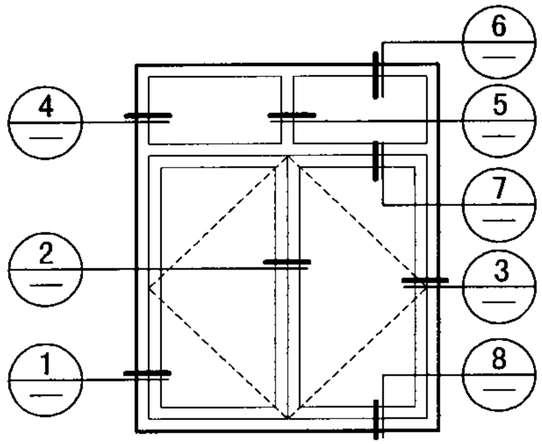


本图根据大连实德集团有限公司提供的资料编制。

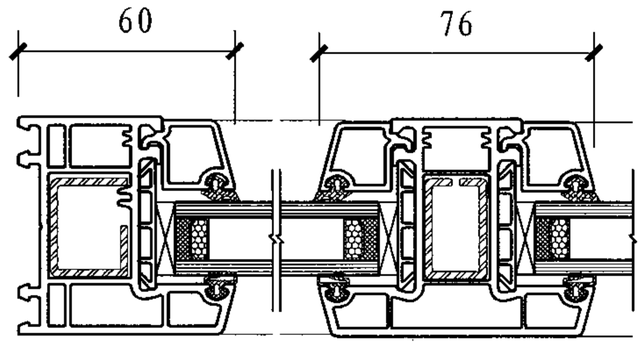
88推拉窗构造图

图集号	07J604
页	60

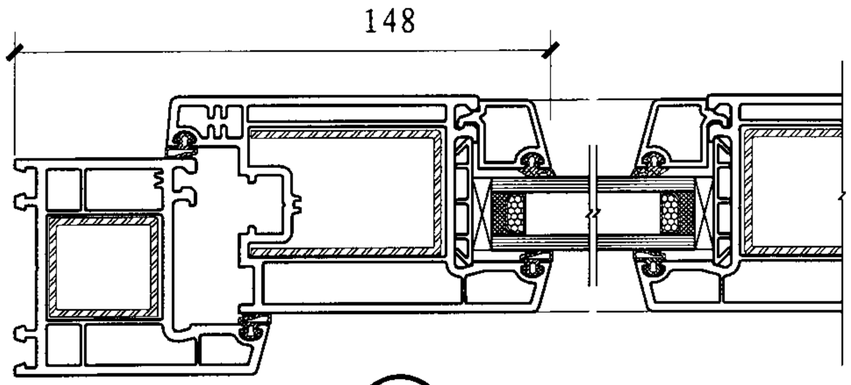
审核	陈海丰		校对	张集锋		设计	张任巍	



门立面图



④ ⑤



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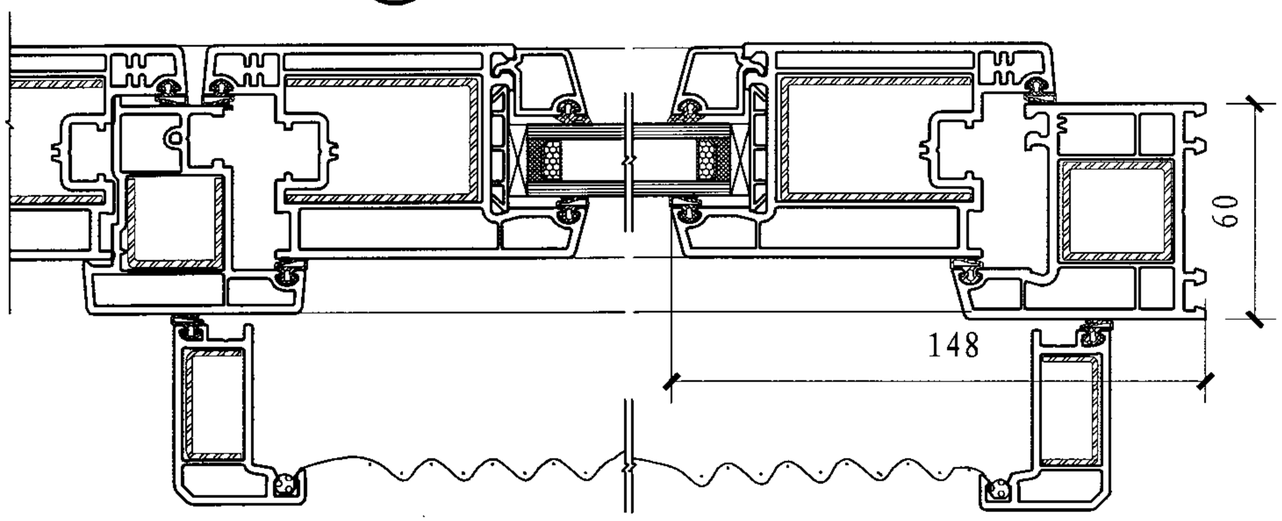
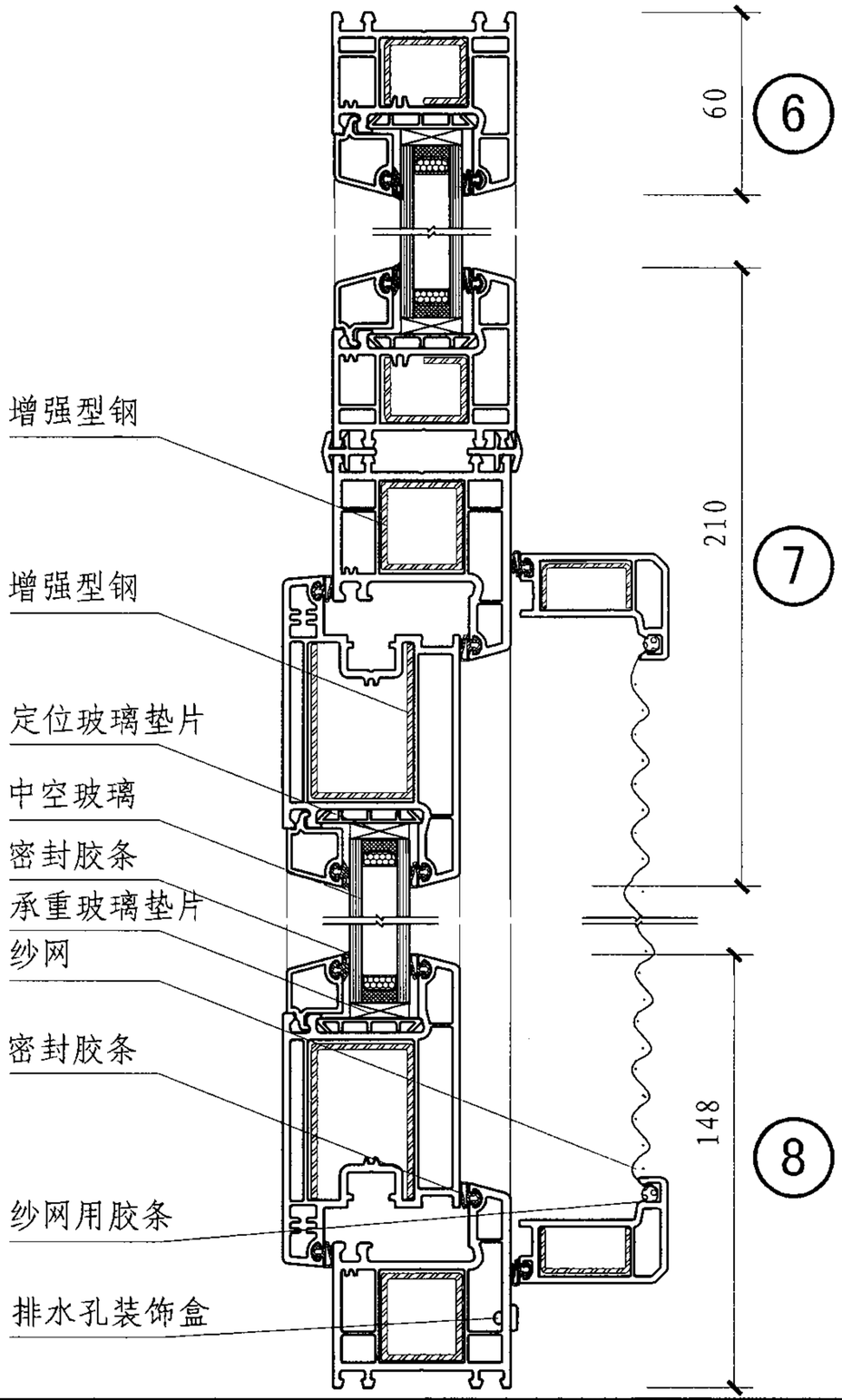


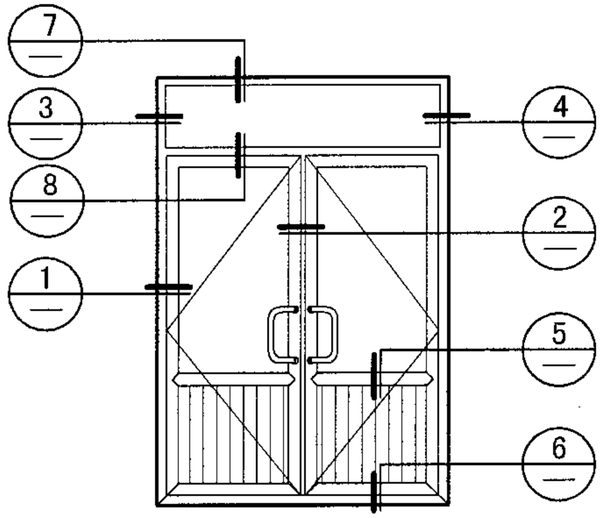
② ③



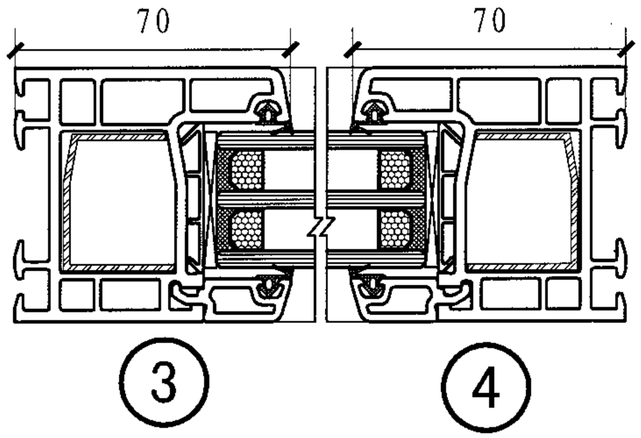
本图根据大连实德集团有限公司提供的资料编制。

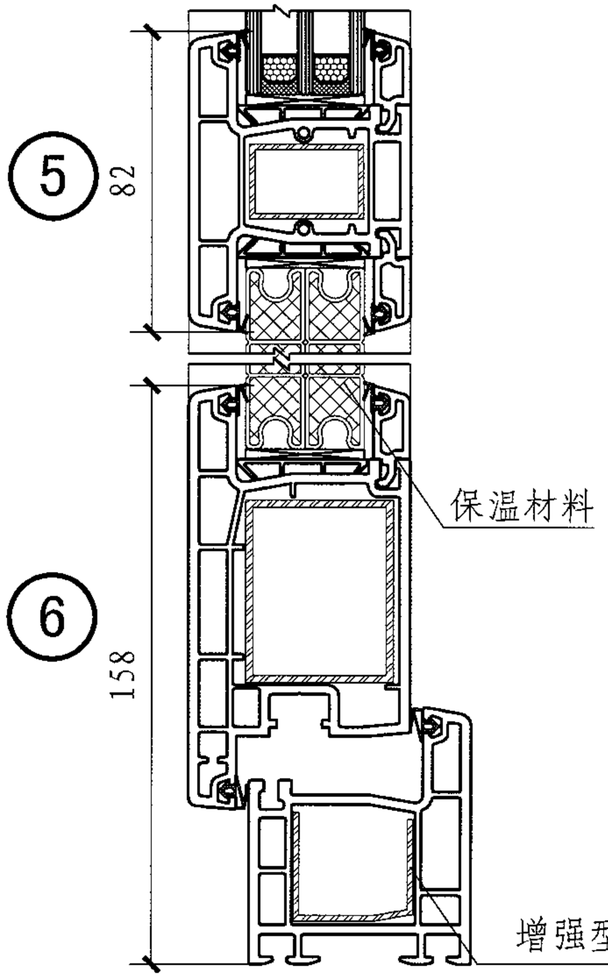
60内平开门构造图

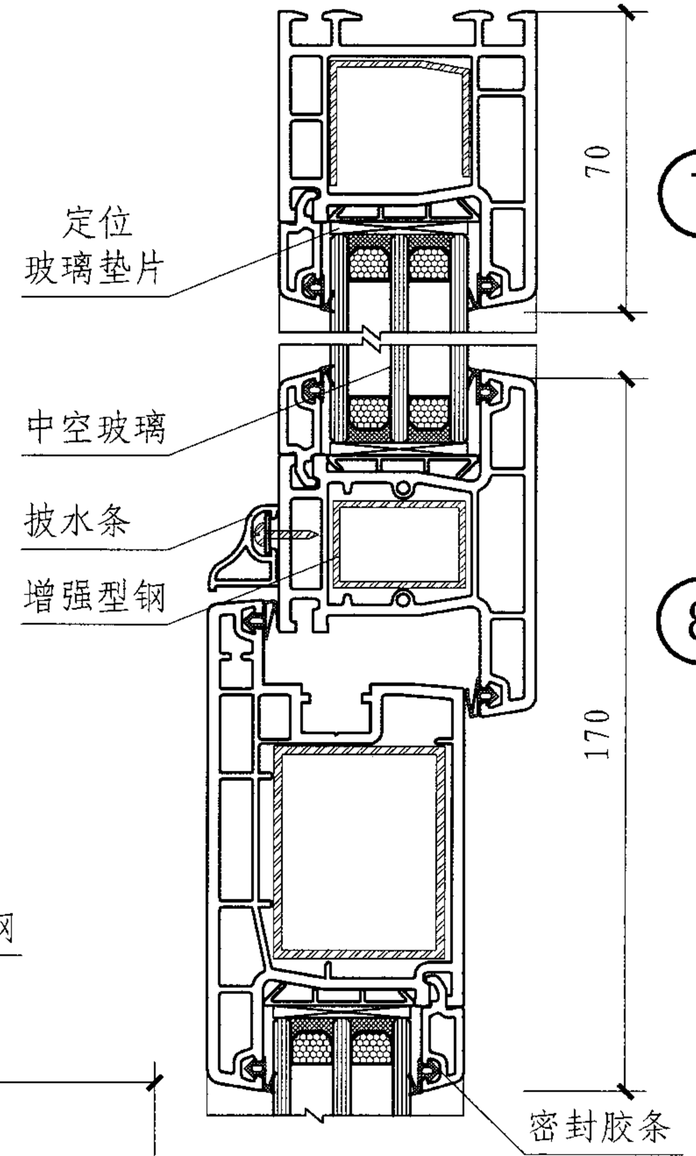
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍	图集号	07J604
									页	61

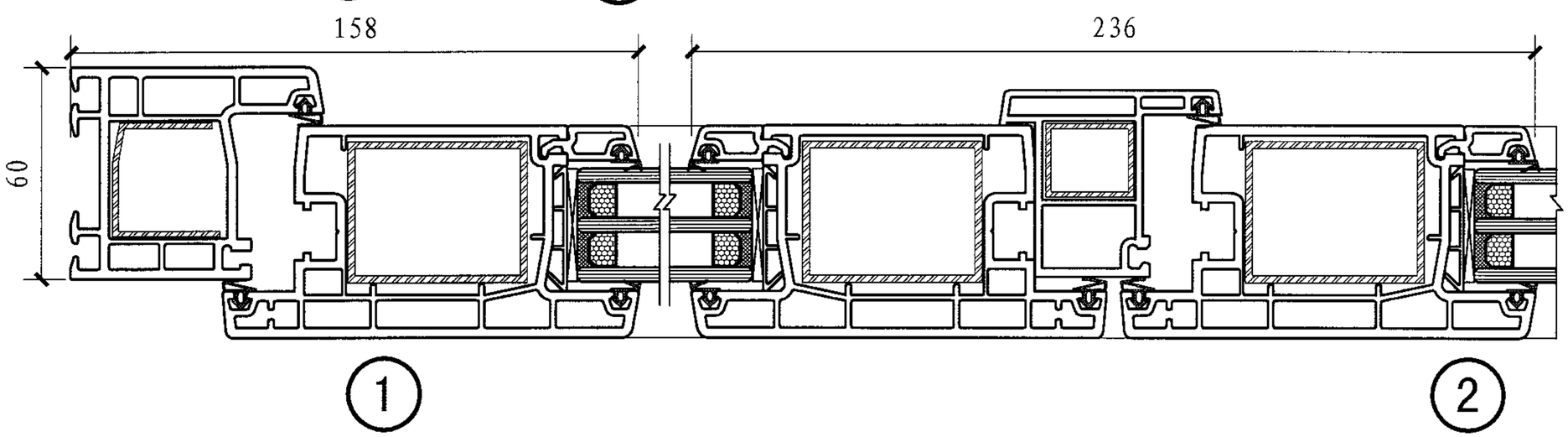


门立面图



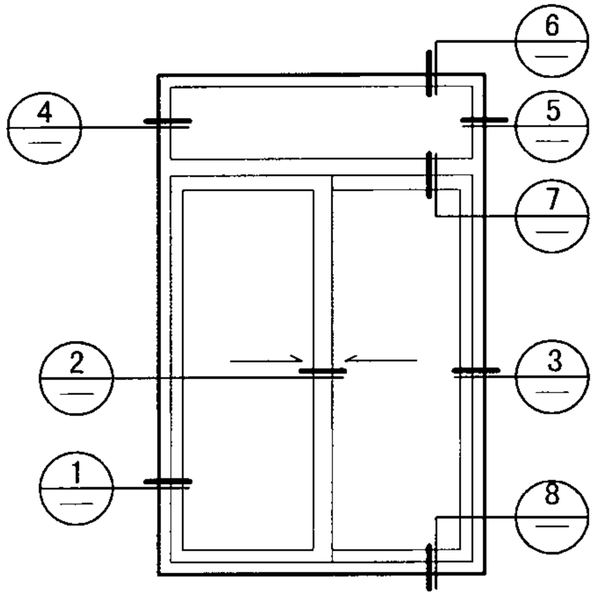




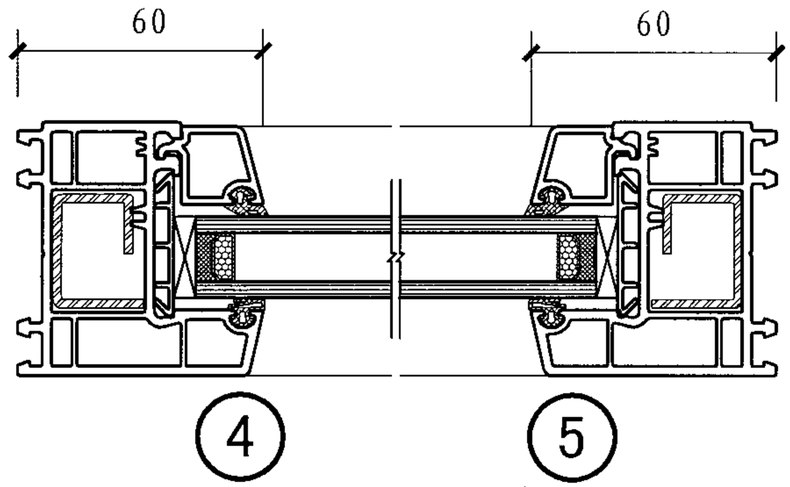


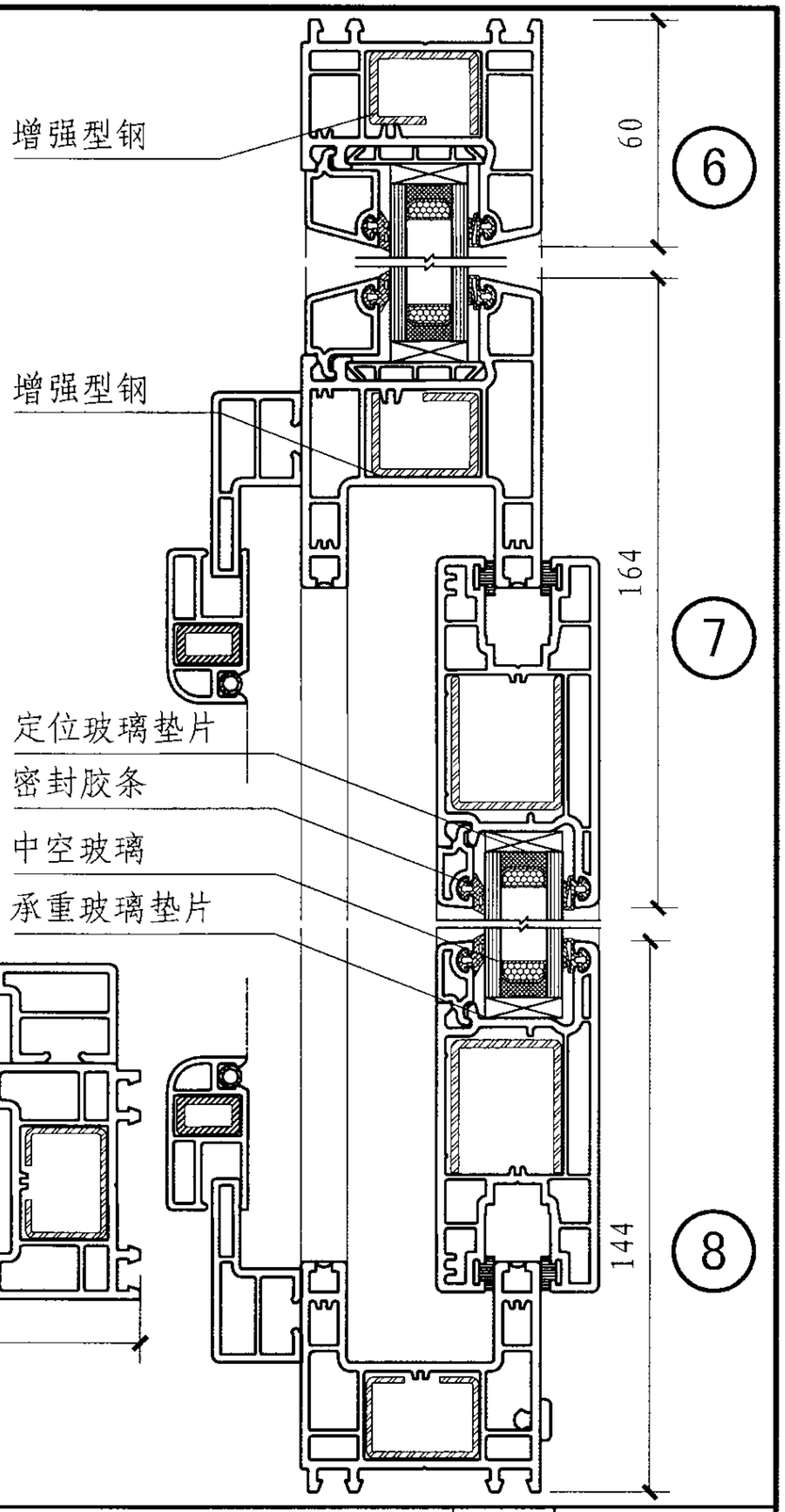
注：1. 型材及增强型钢断面图详见本图集第68页。
2. 本图根据哈尔滨中大化学建材有限公司提供的资料编制。

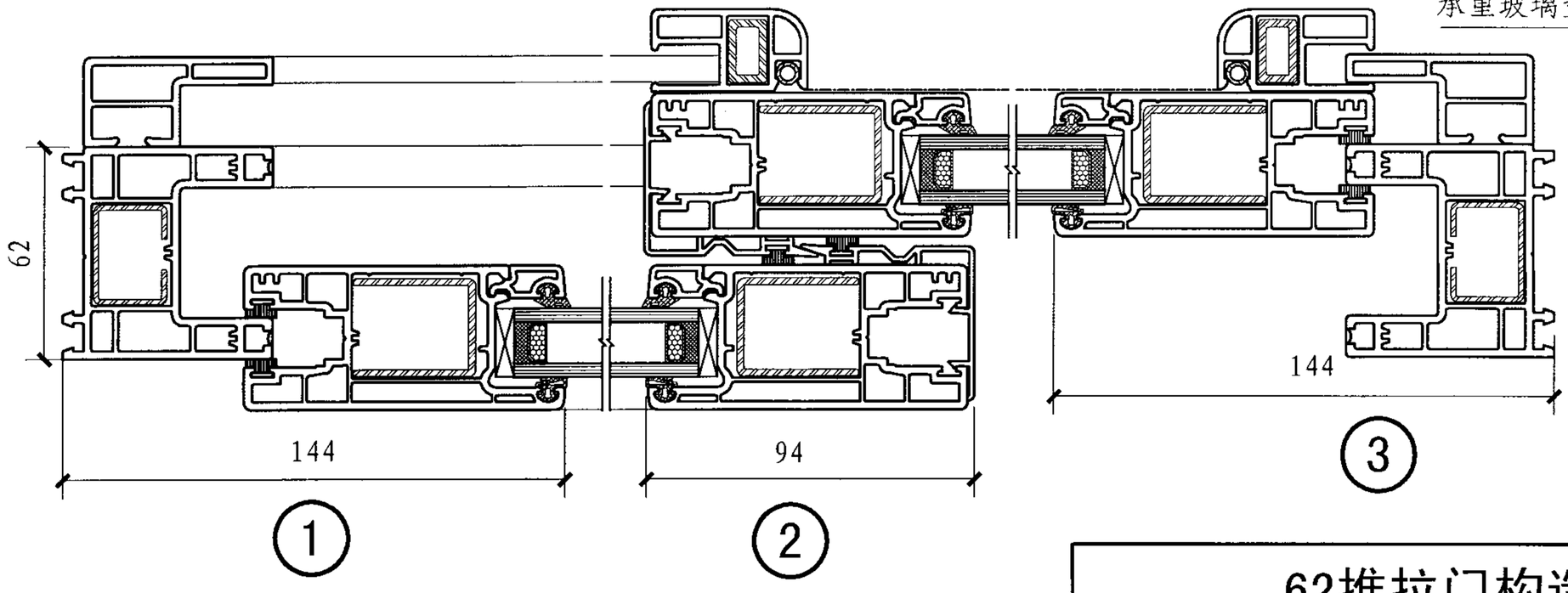
60F外平开门构造图										图集号	07J604
审核	陈海丰	陈海丰	校对	张集锋	张集锋	设计	张任巍	张任巍		页	62



门立面图







注：本图根据大连实德集团有限公司提供的资料编制。

62推拉门构造图

图集号	07J604
页	63

审核	陈海丰		校对	张集锋		设计	张任巍	

实德塑料门窗型材相关技术资料

1. 产品介绍

大连实德塑料门窗型材依据严寒、沿海、西部等不同地区的气候特点提供了经济型、中档、高档塑料门窗型材产品，适用于不同地区的各种建筑物。采用抗大气污染配方体系，提高型材的抗污染和自洁能力。在沿海地区可用百叶窗、活动百叶玻璃或与专业外遮阳厂家产品配套实现外遮阳功能，提高门窗的综合节能性能。连接材设有挡水筋及密封胶条等新颖设计措施，提高了成窗后的气密性能、水密性能。在严寒地区采用耐寒配方体系、多腔结构、硬三密封结构、节能安装工艺、双层窗设计等技术措施，提高了门窗的保温性能和气密性能。

2. 主要性能特点

2.1 良好的抗老化性能

门窗型材抗老化性能均达到GB/T 8814标准中6000h以上。

2.2 优异的节能性能

实德门窗型材按节能门窗制作和安装工艺设计，采用普通中空玻璃，保温性能均达到8级以上，部分节能窗可达到9级；采用合理的密封条安装构造，提高门窗气密性能。良好的传热系数和较高的气密性使实德塑料门窗具有优异的节能性能。

2.3 较高的抗风压性能

实德门窗型材采用合理的断面结构设计、制作和安装，平开窗抗风压强度可以达到8级以上，普通推拉窗抗风压强度可达到3级以上，高强度推拉窗抗风压强度可以达到6级以上。

2.4 优秀的排水性能

实德门窗采用三密封排水、框扇平齐、披水点、挡水板、纱窗轨道安装扣件等构造设计，提高了门窗的水密性能。普通推拉窗水密性能可达到200Pa以上，高水密推拉窗可达到350Pa以上，平开窗可达到500Pa以上。

2.5 丰富的表面装饰性能

实德门窗型材采用先进的彩色共挤、彩色覆膜工艺，可生产多彩的门窗产品。

2.6 超强配套性

实德门窗的品种适应不同地区、不同洞口构造、不同角度、不同风格形式、不同开启形式。

2.7 超值性价比

实德门窗整体性能优越，造价低廉，具有超值性价比。

3. 产品种类

平开窗（平开下悬窗、上悬窗、下悬窗）：60系列平开窗（主型材三腔构造）、60A系列高水密平开窗（主型材三腔构造）、60C系列节能平开窗（主型材四腔构造）、60D系列三密封节能平开窗（主型材四腔构造）、65系列四腔三密封节能平开窗（主型材四腔构造）、70系列高档节能平开窗（主型材五腔构造）、70系列高档节能隐扇平开窗（主型材四腔构造）。

推拉窗：80系列推拉窗（主型材三腔构造）、88系列推拉窗（主型材四腔构造）、88A系列高水密推拉窗（主型材四腔构造）、95系列推拉窗（主型材四腔构造）、108系列高性能推拉窗（主型材四腔构造）。

中悬窗：60系列中悬窗（主型材三腔构造）。

百叶窗：60系列百叶窗（主型材三腔构造）。

平开门：104系列平开门（主型材三腔构造）、106系列平开门（主型材三腔构造）。

推拉门：62系列推拉门（主型材三腔构造）、70A系列推拉门（主型材三腔构造）、95A系列推拉门（主型材四腔构造）。

注：本页根据大连实德集团有限公司提供的技术资料编制。

中大塑料门窗型材相关技术资料

1. 产品介绍

中大型材适用于各种节能建筑上的节能门窗。特别在严寒、寒冷地区，适用于不同的建筑风格和不同建筑档次的建筑门窗。中大塑料门窗型材应用于各种建筑，可满足市场的多种需求。

2. 主要性能特点

2.1 型材壁厚：中大60、66系列平开门窗型材可视面壁厚为2.5～2.8mm，非可视面壁厚为2.3～2.6mm，属GB8814-2004标准中的A、B类产品。标准化的壁厚不仅提高型材自身的惯性矩，同时也提高型材的可焊接性。

2.2 型材结构：中大60、66系列平开门窗主型材有三腔、四腔、五腔结构，选择不同的玻璃压条可实现双层或三层中空玻璃结构，配合双密封或三密封结构，中大型材可满足严寒和寒冷地区的塑料门窗气密性、水密性、保温性能和隔声性能的要求。

2.3 强度设计：通过计算设计的主型材增强型钢内腔，选用与内腔形状、尺寸相符的型钢，可提高门窗的强度和刚性。

2.4 型材配套功能：

2.4.1 五金件：中大型材采用欧洲标准设计五金件安装槽，适用于各类通用的内平开、平开下悬五金件。

2.4.2 功能槽口：中大型材各功能槽口均采用标准化和系列化设计，与辅助型材配套，可放大门窗的使用功能。

3. 产品分类

3.1 60G系列平开门窗型材为四腔、双玻或三玻、双密封结构，可视面壁厚为2.5mm，非可视面壁厚为2.3mm。

3.2 60F系列平开门窗型材为三腔、双玻或三玻、双密封结构，可视面壁厚为2.8mm，非可视面壁厚为2.6mm。

3.3 66C系列平开门窗型材为五腔、三玻、三密封结构，可视面壁厚为2.8mm，非可视面壁厚为2.6mm。

4. 产品性能指标—型材

系列 / 指标 / 项目	60F系列	60G系列	66C系列	检测方法
型材老化试验时间（h）	6000	6000	6000	GB/T16422.2-1999
主型材落锤冲（Ⅱ类）	0	0	0	GB/T8814-2004
主型材壁厚 可视面（mm） 非可视面（mm）	 2.8 2.6	 2.5 2.3	 2.8 2.6	GB/T8814-2004
维卡软化温度（℃）	≥78	≥78	≥78	GB/T1633-2000
弯曲弹性模（MPa）	≥2500	≥2500	≥2500	GB/T9341-2000
拉伸冲击强度（kJ/m^2）	≥600	≥600	≥600	GB/T13525-1992
150℃加热后状态	无气泡 裂痕、麻点	无气泡 裂痕、麻点	无气泡 裂痕、麻点	GB/T8814-2004
加热后尺寸变化率（%）	R1: ≤2.0 R2: ≤2.0 △R: ≤0.4	R1: ≤2.0 R2: ≤2.0 △R: ≤0.4	R1: ≤2.0 R2: ≤2.0 △R: ≤0.4	GB/T8814-2004
主型材最小破坏力计算值F_c（N）	窗框: 2782 窗扇: 3396 门框: 3460 门扇: 9396	窗框: 2653 窗扇: 3137 门框: 3460 门扇: 9396	窗框: 3563 窗扇: 4405 门框: 4254 门扇: 9993	GB/T8814-2004

5. 产品性能指标—门窗

系列 / 指标 / 项目	60F系列 4+12A+4+12A+4	60G系列 4+12A+4+12A+4	66C系列 4+12A+4+12A+4	检测方法
抗风压性P(kPa)	≥3.5	≥3.5	≥3.5	GB/T7106-2002
水密性△P(Pa)	≥350	≥350	≥350	GB/T7108-2002
气密性 $q_1(m^3/m \cdot h)$ $q_2(m^3/m^2 \cdot h)$	 ≤1.5 ≤4.5	 ≤1.5 ≤4.5	 ≤1.5 ≤4.5	GB/T107-2002
保温性 $(W/m^2 \cdot K)$	≤2.0	≤2.0	≤1.9	GB/T8484-2002
隔声性能（dB）	≥36	≥36	≥36	GB/T8485-2002

注：本页根据哈尔滨中大化学建材有限公司提供的技术资料编制。

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