



系统产品篇 II  
SYSTEM PRODUCTS PART II

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# 建筑门窗系统 解决方案服务商

SERVICE PROVIDER FOR BUILDING DOOR AND WINDOW  
SYSTEM SOLUTIONS

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Tips: The information and parameters shown in this book are for reference only. Our company reserves the right to modify/revise/amend and interpretation.

全国房地产技术应用 TOP10  
核心竞争力供应商  
NATIONAL REAL ESTATE TECHNOLOGY APPLICATION  
CORE COMPETITIVENESS SUPPLIER TOP10

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# ABOUT JM

## 关于我们

总部仓储供应中心

**3.6**万m<sup>2</sup>

36,000 m<sup>2</sup>  
HEAD OFFICE  
STORAGE AND SUPPLY CENTER

门窗及材料检测设备

**100+**台

100+  
DOORS, WINDOWS AND MATERIALS  
TESTING EQUIPMENT

年产能

**150**万m<sup>2</sup>

1.5 MILLION m<sup>2</sup>  
ANNUAL CAPACITY

技术研发人员

**200+**

200+  
TECHNICAL RESEARCH AND  
DEVELOPMENT PERSONNEL

## 广东坚美建筑科技有限公司

### 坚美门窗系统

坚美建筑科技(坚美门窗系统)专业从事门窗系统的研发、设计,为建筑项目门窗应用输出标准和系统服务,为顾客提供全方位的门窗系统解决方案。

坚美门窗系统源自于2002年成立的坚美门窗加工厂及2008年为承担“十一五”及“十二五”国家科技支撑计划门窗项目而成立的坚美门窗系统研发中心,现有专业技术研发团队200多人。

坚美门窗系统根据不同区域环境、气候特征及项目需求,研发出性能优越、性价比高、功能完备的90多款门窗系统产品,实现中国建筑气候区域(严寒、寒冷、夏热冬冷、夏热冬暖、温和地区)全覆盖,同时在绿色建筑、低能耗建筑、被动房、岛礁用窗等高技术要求项目拥有成功经验。

## GUANGDONG JM CONSTRUCTION TECHNOLOGY CO., LTD.

### JM SYSTEM

JM System specializes in the development and design of doors and windows system, for the construction of doors and Windows application output standards and system services, to provide customers with a full range of doors and windows system solutions.

JM System originated from JM Door and Window Processing Factory established in 2002 and JM Door and Window System Research and Development Center established in 2008 to undertake the "11th Five-Year Plan" and "12th Five-Year Plan" national science and technology support programs. Currently, there are more than 200 professionals in the technology research and development teams.

JM System has developed more than 90 kinds of window system products with superior performance, low price and complete functions according to different regional environment, weather characteristics and requirements. It has achieved full coverage of China's building weather areas (cold, cold, hot summer and cold winter, hot summer and warm winter, mild areas). simultaneously/concurrently has successful experience in high-tech projects such as green buildings, low-energy buildings, passive buildings, window for islands and reefs.

# DEVELOPMENT HISTORY

## 发展历程

JM SYSTEM  
坚美门窗系统

### 2002 LAUNCH 启程

成立坚美门窗加工厂。

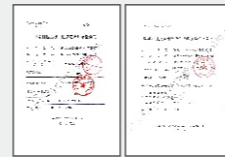
JM Door and Window Processing Factory is established.



### 2008 R&D 研发

成立门窗系统研发团队，并先后承担“十一五”和“十二五”国家科技支撑计划门窗系统项目研发任务。

Set up a research and development team for door and window systems, and successively undertake the "11th Five-Year Plan" and the "12th Five-Year Plan" national science and technology support plan door and window system project research and development tasks.



### 2012 CHANGE 蜕变

创立自主品牌的坚美门窗系统，并推出第一代系统产品。

Establish independent brand JM system, and launch the first generation of system products.



### 2018 HONOR 荣誉

荣获中国建筑金属结构协会评定的《门窗行业十大首选品牌》。

Won the "Top Ten Preferred Brands in door and Window Industry" assessed by China Building Metal Structure Association.



### 2020 GUIDE 引领

推出新一代系统产品，市场影响进一步扩大。

A new generation of system products was launched, which further expanded the market influence.



### 2021 FORWARD 奋进

坚美系统新总部基地落成，建有行业先进的供应物流中心、门窗创新研发中心、国家级门窗实验室。

JM System's new head office base completed with industrial's advanced supply and logistics center, door and window innovation research and development center, national door and window laboratory.



### 2022 FUTURE 致远

秉承“创新、品牌、完美、共赢”的发展理念，携手合作伙伴提供更优质服务，为建筑项目门窗增值。

Adhere to the "Innovation, Brand, Perfect, Win-win" development concept. Join hands with partners to provide better service and add value to the doors and Windows of construction projects.

# DOORS & WINDOWS SYSTEM SERVICE PROVIDER

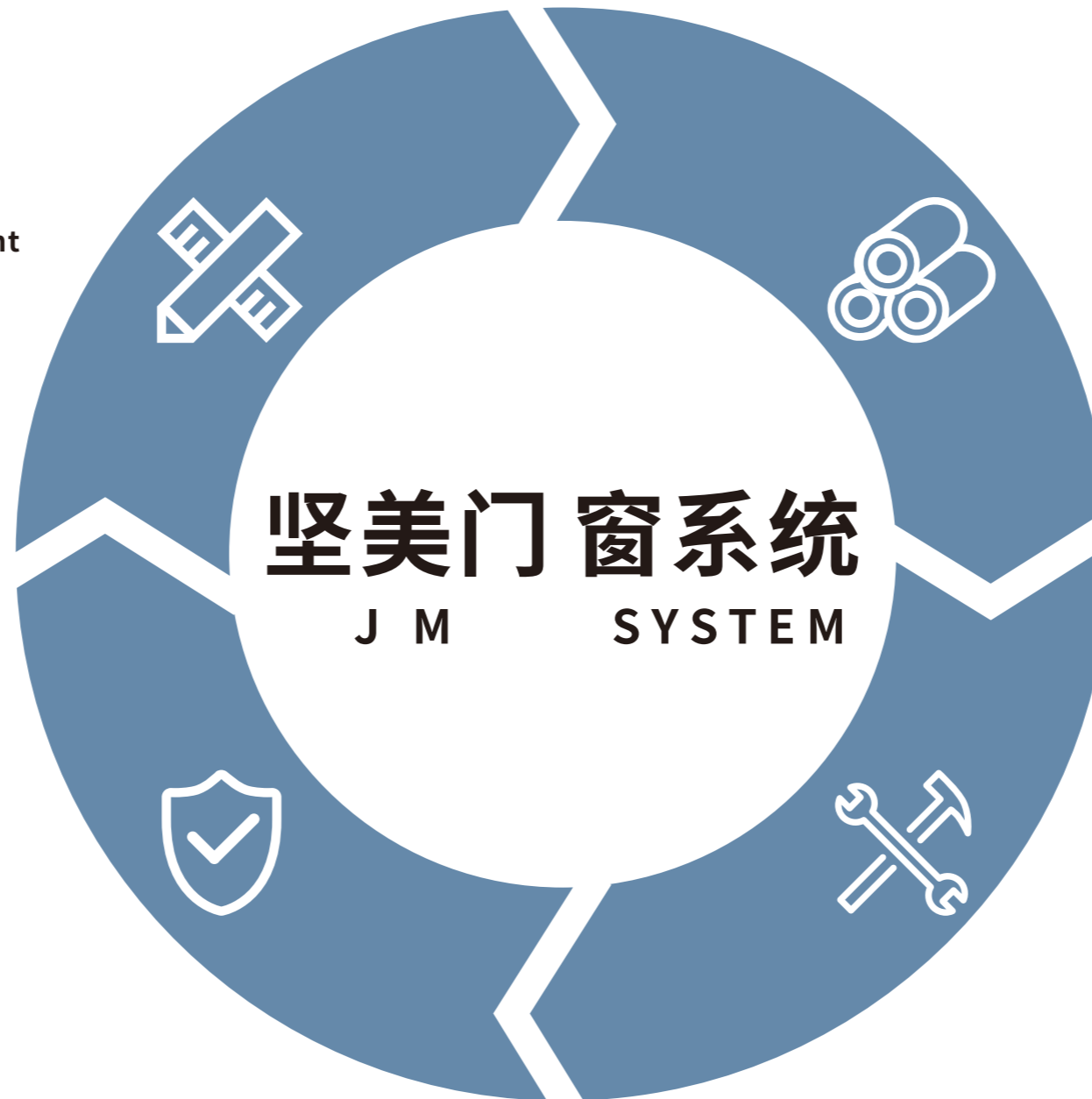
## 门窗系统服务商

### 1. 系统研发-Research & Development

创研中心 Research center  
产品研发 Research & Development  
工艺标准 Technology standard  
知识产权 Intellectual property

### 4. 系统服务-SERVICE

产品应用解决方案 Product application solutions  
样板房设计及提供 Model house design & provision  
仓储物流供应服务 Logistics supply service  
培训服务 (订货、生产、施工、售后)  
Training services



### 2. 系统材料及配套-Materials & Accessories

铝合金型材 Aluminum profile  
玻璃应用 Glass application  
五金系统 Hardware system  
密封系统 Sealing system  
配套件系统 Matching parts system

### 3. 系统保障-SYSTEM ASSURANCE

产品检测认证 Product testing & certification  
制造过程监管 Manufacturing process supervision  
施工过程监管 Construction process supervision  
售后服务保障 AFTER SALES GUARANTEE

# SYSTEM ASSURANCE

## 系统保障

— 坚美检测中心被认定为国家认可实验室，公司现有100多台门窗及材料检测设备，为产品开发和应用提供科学的数据支持。

JM Testing Center is recognized as a nationally recognized laboratory. Our company has more than 100 doors and windows and materials testing equipments. Providing scientific data support for product development and application.



### 门窗性能检测

Windows & Doors Performance Testing

门窗三性检测  
Three-dimensional Test of Doors and Windows

反复启闭检测  
Repeated Opening and Closing Detection

隔声性能检测  
Sound Insulation Performance Test

保温性能检测  
Insulation Performance Test

采光性能检测  
Daylighting Performance Test

遮阳性能检测  
Sunshade Performance Test

力学性能检测  
Mechanical Performance Test

尺寸测量  
Dimensional Measurement

材质分析  
Material Analysis

力学性能检测  
Mechanical Performance Test

化学性能检测  
Chemistry Performance Test

光学性能检测  
Optical Performance Testing

热学性能检测  
Thermal Performance Testing

耐候性能检测  
Weather Resistance Performance Test

耐久性能检测  
Durability Performance Test

### 门窗构件检测

Windows & Doors Component Inspection

### 门窗性能检测(部分)

Performance Testing of Doors and Windows (Part)



门窗气密、水密、抗风压性能  
实验室检测室检测设备  
Air tightness, water tightness and wind pressure resistance  
of doors and windows  
Testing Equipment for Laboratory Testing Room



门窗保温性能检测设备中控台  
Center console of door and window thermal insulation  
performance testing equipment



门窗空气隔声性能检测  
Air sound insulation performance test  
of doors and windows



门窗采光性能检测设备  
Detection equipment for lighting performance of  
doors and windows



门窗耐久性能单臂式检测设备  
Single arm type testing equipment for durability  
of doors and windows



门窗耐久性能机械手检测设备  
Mechanical arm detection equipment for durability of  
doors and windows



### 门窗构件检测(部分)

Inspection of Door and Window Components (Part)



恒定湿热试验箱  
Constant humidity test chamber



露点仪  
Dew point meter



高低温交变湿热试验箱  
High and Low Temperature Alternating  
Humid Heat est Chamber



密封胶相容性试验箱  
Sealant Compatibility Test Chamber



耐辐照检测机  
Radiation-resistant detector



耐紫外辐照试验机  
Ultraviolet radiation resistant  
testing machine



热老化试验箱  
Thermal aging test chamber

## STANDARDS

## 标准引领

30多项  
标准MORE THAN  
30 STANDARDS

先后主编、主笔GB8478《铝合金门窗》、JGJ214《铝合金门窗工程技术规范》、GB39529《系统门窗通用技术条件》、GB5237《铝合金建筑型材》等建筑(系统)门窗相关国家、行业标准规范30多项,为门窗行业的高质量发展贡献坚美力量。

Edited and wrote GB8478 "Aluminum Doors and Windows", JGJ214 "Technical Specifications for Aluminum Doors and Windows Engineering", GB39529 "General Technical Conditions for System Doors and Windows", GB5237 "Aluminum Alloy Building Profiles" and other related countries and more than 30 Industrials standards, contributing to the high-quality development of doors and windows in industrials.

2017年

《建筑系统门窗技术导则》主要编写单位

"Technical Guidelines for Doors and Windows of Building Systems" editor in chief



2019年

建筑外窗新型标准化安装节点征集活动  
外窗标准化安装荣誉单位

Solicitation of New Standardized Installation Nodes for Building Exterior Windows  
Honorary Unit for Standardized Installation of External Windows



2019年

全国建筑幕墙门窗标准化工作  
先进委员单位

Standardization of Curtain Wall Doors and Windows in China  
Advanced Committee Member Unit



| 标准号<br>Standard number | 标准名称<br>Standard name  |
|------------------------|--|
| RISN-TG047-2023        | 建筑门窗安装技术导则<br>Guideline for installation of windows and external doors   |
| GB/T 39968-2021        | 建筑用通风百叶窗技术要求<br>Technical specification of ventilation louvers for building  |
| GB/T 39866-2021        | 建筑门窗附框技术要求<br>Technical requirement of appendent frame for window and door in building   |
| GB/T 5824-2021         | 建筑门窗洞口尺寸系列<br>Size system of opening for windows and doors in building   |
| GB/T 39529-2020        | 系统门窗通用技术条件<br>General technical requirements for systematic windows and doors  |
| GB/T 8478-2020         | 铝合金门窗<br>Aluminium windows and doors   |
| GB/T 8484-2020         | 建筑外门窗保温性能检测方法<br>Test method for thermal insulating performance for building exterior doors and windows  |
| GB/T 38252-2019        | 建筑门窗耐火完整性试验方法及判定要求<br>Test method of fire-resistant integrity for building windows and doors   |
| GB/T 15227-2019        | 建筑幕墙气密、水密、抗风压性能检测方法<br>Test method of air permeability, watertightness, wind load resistance performance for curtain walls                         |
| GB/T 38388-2019        | 建筑光伏幕墙采光顶检测方法<br>Test method of solar PV system for curtain wall and skylight of building  |
| GB/T 7106-2019         | 建筑外门窗气密、水密、抗风压性能检测方法<br>Test methods of air permeability, watertightness, wind load resistance performance for building external windows and doors |
| GB/T 34555-2017        | 建筑采光顶气密、水密、抗风压性能检测方法<br>Test method of air permeability, watertightness, wind load resistance performance for building skylight system             |
| RISN-TG026-2016        | 建筑系统门窗技术导则<br>Technical guideline for system window  |
| GB/T31433-2015         | 建筑幕墙、门窗通用技术条件<br>General specification for building curtain walls, windows and doors   |

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# INTELLECTUAL PROPERTY

## 知识产权

- 自主研发的“隔热铝合金窗”、“海岛建设用耐候节能铝合金门窗”先后获评“国家重点新产品”、“全国建材行业技术革新奖”
- 坚美被动式建筑用窗系统通过德国PHI认证 (PHB级)
- 坚美高性能推拉窗系统获评“中国门窗幕墙创新·星品奖”
- 坚美“三防”门窗系统”产品, 获评第四届建筑门窗幕墙行业金轩奖“技术研发创新产品”

· The independently developed "insulated aluminum alloy windows" and "Weatherproof and Energy-Saving Aluminum Alloy Doors and Windows For Island Construction" were successively awarded "National Key New Products" and "National Building Materials Industrials Technological Innovation Award"

- JM Passive Building Window System Passed PHB Certification in Germany
- JM High Performance Sliding Window System won "China Door Window Curtain Wall Innovation Star Award"
- JM's "Three Preventions" Door and Window System won the 4th Industrials Golden Xuan Award for Building Door and Window Curtain Wall "Technological R&D and Innovative Products"



# 66件著作权

信息系统软件著作权33件  
作品著作权33件  
赋能合作伙伴提质增效.....

**66 COPYRIGHTS**  
33 pieces of information system software copyright  
33 copyright works  
Enabling Partners to Improve Quality and Increase Efficiency .....

# 200多件专利

国际专利7项  
发明专利13项  
实用新型专利90多项.....

**MORE THAN 200 PATENTS**  
7 International Patents  
13 Invention Patents  
More than 90 Utility Model Patents.....

| 专利号<br>Patent number     | 专利名称<br>Patent Name  | 专利类型<br>Patent Type                         |
|--------------------------|--|---|
| 2015210472               | 一种密封性推拉装置<br>Sealing push-pull device  | 巴黎公约 (澳大利亚)<br>Paris Convention (Australia) |
| PCT/CN2015/079344        | 一种门窗<br>Door and window  | PCT (欧洲)<br>PCT (Europe)                    |
| PCT/CN2016/070694        | 推拉装置<br>Push-pull device   | PCT<br>PCT                                  |
| PCT/CN2016/0706953258052 | 一种推拉装置的排水装置<br>Drainage device of push-pull device   | PCT (欧洲)<br>PCT (Europe)                    |
| PCT/CN2018/080451        | 推拉装置的密封机构<br>Sealing mechanism of push-pull device   | PCT (澳大利亚)<br>PCT (Australia)               |
| PCT/CN2018/079400        | 一种推拉门窗限位防脱落装置及一种防脱落密封推拉门窗<br>Limit anti-dropping device for sliding door and window and anti-dropping sealed sliding door and window | PCT<br>PCT                                  |
| PCT/CN2018/080438        | 一种地弹门<br>Ground bounce door  | PCT (加拿大)<br>PCT (Canada)                   |
| ZL201410300153.8         | 一种门窗<br>Door and window  | 发明专利<br>Partent for Invention               |
| ZL201410391597.7         | 一种高密封性推拉门窗<br>High-sealing sliding door and window   | 发明专利<br>Partent for Invention               |
| ZL201510083579.7         | 一种推拉装置的排水装置<br>Drainage device of push-pull device   | 发明专利<br>Partent for Invention               |
| ZL201710347273.7         | 推拉装置的密封机构<br>Sealing mechanism of push-pull device   | 发明专利<br>Partent for Invention               |

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# CLIMATIC ZONES IN CHINA

## 中国建筑气候区划图



### 严寒地区

Severe Cold Region

**[建筑门窗基本要求]**

须充分满足保温、采光、防风、防结露、耐低温等要求。

**Basic requirements for building doors and windows**

It must fully meet the requirements of heat preservation, lighting, wind prevention, condensation prevention, low temperature resistance, etc.

### 寒冷地区

Cold Zone

**[建筑门窗基本要求]**

须满足保温、采光、防风沙、防结露、防雾霾、耐低温等要求，部分地区应兼顾隔热。

**Basic requirements for building doors and windows**

It must meet the requirements of heat preservation, lighting, wind and sand prevention, condensation prevention, haze prevention, low temperature resistance and other requirements, and heat insulation should be considered in some areas.

### 温和地区

Temperate Zone (Mild Summer & Winter)

**[建筑门窗基本要求]**

须满足湿季防雨、防潮等要求，可不考虑隔热，通过合理的设计和应用，使湿季有较好自然通风。

**Basic requirements for building doors and windows**

Must meet the wet season rain, moisture and other requirements, may not consider heat insulation, through reasonable design and application, make the wet season have better natural ventilation.

### 夏热冬冷地区

Tropical Zone (Mild Summer and Cold Winter)

**[建筑门窗基本要求]**

须满足隔热、遮阳、通风、防雨、抗台风等要求，应适当兼顾保温。

**Basic requirements for building doors and windows**

It must meet the requirements of heat insulation, sunshade, ventilation, rainproof, typhoon resistance, etc., should give due consideration to heat preservation.

### 夏热冬暖地区

Mediterranean Zone (Hot Summer and Mild winter)

**[建筑门窗基本要求]**

须充分满足隔热、遮阳、通风、防雨、抗台风等要求，可不考虑保温。

**Basic requirements for building doors and windows**

It must fully meet the requirements of heat insulation, sunshade, ventilation, rainproof, typhoon resistance, etc., heat preservation may not be considered.

### 南海岛礁

Islands and Reefs in South China Sea

**[气候特征]**

南海岛礁具有高温、高湿、高盐雾，太阳辐射强，台风频发，海水冲刷等特殊海洋环境气候特征。

**[建筑门窗基本要求]**

须满足隔热、耐腐蚀、抗强台风、高水密、高气密等性能要求。

**Climatic characteristics**

South China Sea reefs are characterized by climate characteristics of special marine environment such as high temperature, high humidity, high salt fog, strong solar radiation, frequent typhoons and seawater scouring.

**Basic requirements for building doors and windows**

It must meet the performance requirements of heat insulation, corrosion resistance, strong typhoon resistance, high water tightness, high air tightness, etc.

# 居住建筑外窗热工性能规定

## PROVISIONS ON THERMAL PERFORMANCE OF EXTERIOR WINDOWS OF RESIDENTIAL BUILDINGS

**附表A1 严寒地区居住建筑外窗热工性能限值**

Annex Table A1 Thermal Performance Limits of Exterior Windows of Residential Buildings in Severe Cold Areas

| 外窗<br>Exterior Window | 窗墙面积比           | 传热系数 K [ W/(m <sup>2</sup> . K) ]<br>Heat Transfer Coefficient K [ W/(m <sup>2</sup> . K) ] |                            |
|-----------------------|-----------------|---|----------------------------|
|                       |                 | ≤3层建筑<br>≤3-floor building  | >3层建筑<br>>3-floor building |
| 严寒A区<br>Cold Area A   | ①窗墙面积比≤0.30     | ≤1.40   | ≤1.60                      |
|                       | 0.30<窗墙面积比≤0.45 | ≤1.40   | ≤1.60                      |
| 严寒B区<br>Cold Area B   | 窗墙面积比≤0.30      | ≤1.40   | ≤1.80                      |
|                       | 0.30<窗墙面积比≤0.45 | ≤1.40   | ≤1.60                      |
| 严寒C区<br>Cold Area C   | 窗墙面积比≤0.30      | ≤1.60   | ≤2.00                      |
|                       | 0.30<窗墙面积比≤0.45 | ≤1.40   | ≤1.80                      |

**附表A2 寒冷地区居住建筑外窗热工性能限值**

Annex Table A2 Thermal Performance Limits for Exterior Windows of Residential Buildings in Cold Areas

| 外窗<br>Exterior Window | 窗墙面积比           | 传热系数 K [ W/(m <sup>2</sup> . K) ]<br>Heat Transfer Coefficient K [ W/(m <sup>2</sup> . K) ] |                            | 太阳得热系数SHGC<br>Solar Thermal Coefficient SHGC |
|-----------------------|-----------------|---|----------------------------|--|
|                       |                 | ≤3层建筑<br>≤3-floor building  | >3层建筑<br>>3-floor building |  |
| 寒冷A区<br>Cold Area A   | 窗墙面积比≤0.30      | ≤1.80   | ≤2.20                      | —  |
|                       | 0.30<窗墙面积比≤0.50 | ≤1.50   | ≤2.00                      | —  |
| 寒冷B区<br>Cold Area B   | 窗墙面积比≤0.30      | ≤1.80   | ≤2.20                      | —  |
|                       | 0.30<窗墙面积比≤0.50 | ≤1.50   | ≤2.00                      | ②夏季东西向≤0.55                                  |

**注:本表自《建筑节能与可再生能源利用通用规范》GB 55015-2021**

Note: This table is from GB 55015-2021 "General Code for Building Energy Conservation and Renewable Energy Utilization"

- ① 窗墙面积比 Window-wall ratio      ② 夏季东西向 Summer East-west Direction      ③ 夏季 Summer  
④ 冬季 Winter      ⑤ 东西向外窗 East-west exterior window

**附表A3 夏热冬冷地区居住建筑外窗热工性能限值**

Annex Table A3 Thermal Performance Limits for Exterior Windows of Residential Buildings in Hot Summer and Cold Winter Areas

| 外窗<br>Exterior window                       | 窗墙面积比           | 传热系数 K [ W/(m <sup>2</sup> . K) ]<br>Heat Transfer Coefficient K [ W/(m <sup>2</sup> . K) ] | 太阳得热系数SHGC<br>(东、西向/南向)<br>Solar Thermal Coefficient SHGC<br>(East, West/South) |
|---|-----------------|---|---|
|   |                 |   |   |
| 夏热冬冷A区<br>Hot Summer and Cold Winter Area A | 窗墙面积比≤0.25      | ≤2.80   | —   |
|   | 0.25<窗墙面积比≤0.40 | ≤2.50   | ③夏季≤0.4/—   |
|   | 0.40<窗墙面积比≤0.60 | ≤2.00   | 夏季≤0.25/④冬季≥0.50  |
| 夏热冬冷B区<br>Hot Summer and Cold Winter Area B | 窗墙面积比≤0.25      | ≤2.80   | —   |
|   | 0.25<窗墙面积比≤0.40 | ≤2.80   | 夏季≤0.40/—   |
|   | 0.40<窗墙面积比≤0.60 | ≤2.50   | 夏季≤0.25/冬季≥0.50   |

**附表A4 夏热冬暖地区居住建筑外窗热工性能限值**

Annex Table A4 Thermal Performance Limits for Exterior Windows of Residential Buildings in Hot Summer and Warm Winter Areas

| 外窗<br>Exterior Window                       | 窗墙面积比           | 传热系数 K [ W/(m <sup>2</sup> . K) ]<br>Heat Transfer Coefficient K [ W/(m <sup>2</sup> . K) ] | 太阳得热系数SHGC<br>(西向/东、南向/北向)<br>Solar Thermal Coefficient SHGC<br>(West/East, South/North) |
|---|-----------------|---|--|
|   |                 |   |  |
| 夏热冬暖A区<br>Hot Summer and Warm Winter Area A | 窗墙面积比≤0.25      | ≤3.00   | ≤0.35/≤0.35/≤0.35  |
|   | 0.25<窗墙面积比≤0.35 | ≤3.00   | ≤0.30/≤0.30/≤0.35  |
|   | 0.35<窗墙面积比≤0.40 | ≤2.50   | ≤0.20/≤0.30/≤0.35  |
| 夏热冬暖B区<br>Hot Summer and Warm Winter Area B | 窗墙面积比≤0.25      | ≤3.50   | ≤0.30/≤0.35/≤0.35  |
|   | 0.25<窗墙面积比≤0.35 | ≤3.50   | ≤0.25/≤0.30/≤0.30  |
|   | 0.35<窗墙面积比≤0.40 | ≤3.00   | ≤0.20/≤0.30/≤0.30  |

**附表A5 温和地区居住建筑外窗热工性能限值**

Annex Table A5 Thermal Performance Limits for Exterior Windows of Residential Buildings in Mild Areas

| 外窗<br>Exterior Window | 窗墙面积比           | 传热系数 K [ W/(m <sup>2</sup> . K) ]<br>Heat Transfer Coefficient K [ W/(m <sup>2</sup> . K) ] | 太阳得热系数SHGC<br>(东、西向/南向)<br>Solar Thermal Coefficient SHGC<br>(East, West/South) |
|-----------------------|-----------------|---|---|
|                       |                 |   |   |
| 温和A区<br>Mild Area A   | 窗墙面积比≤0.20      | ≤2.80   | —   |
|                       | 0.20<窗墙面积比≤0.40 | ≤2.50   | —/冬季≥0.50   |
|                       | 0.40<窗墙面积比≤0.50 | ≤2.00   | —/冬季≥0.50   |
| 温和B区<br>Mild Area B   | ⑤东西向外窗          | ≤4.00   | 夏季≤0.40/—   |

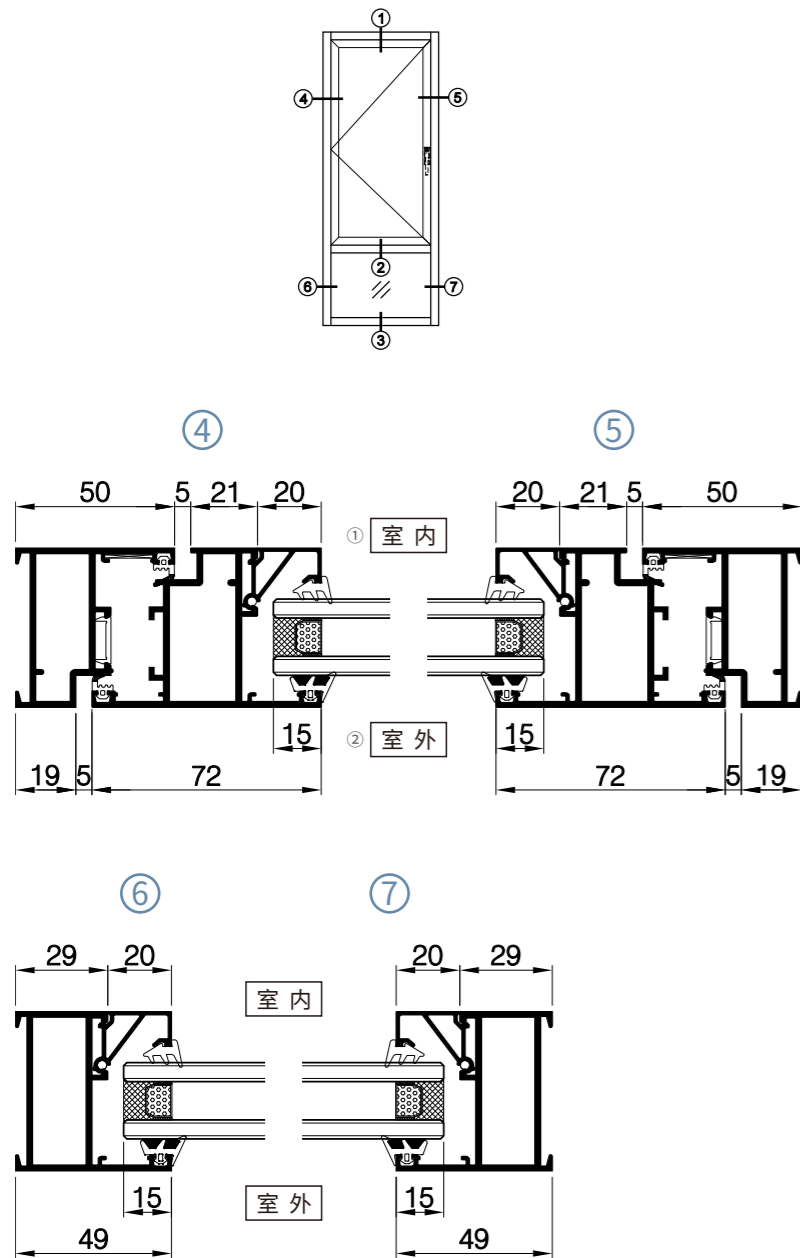
# 坚美门窗系统产品 JM SYSTEM PRODUCTS

从气候区划图出发,了解该区域建筑门窗基本要求  
持续提升产品内涵和细化产品类别

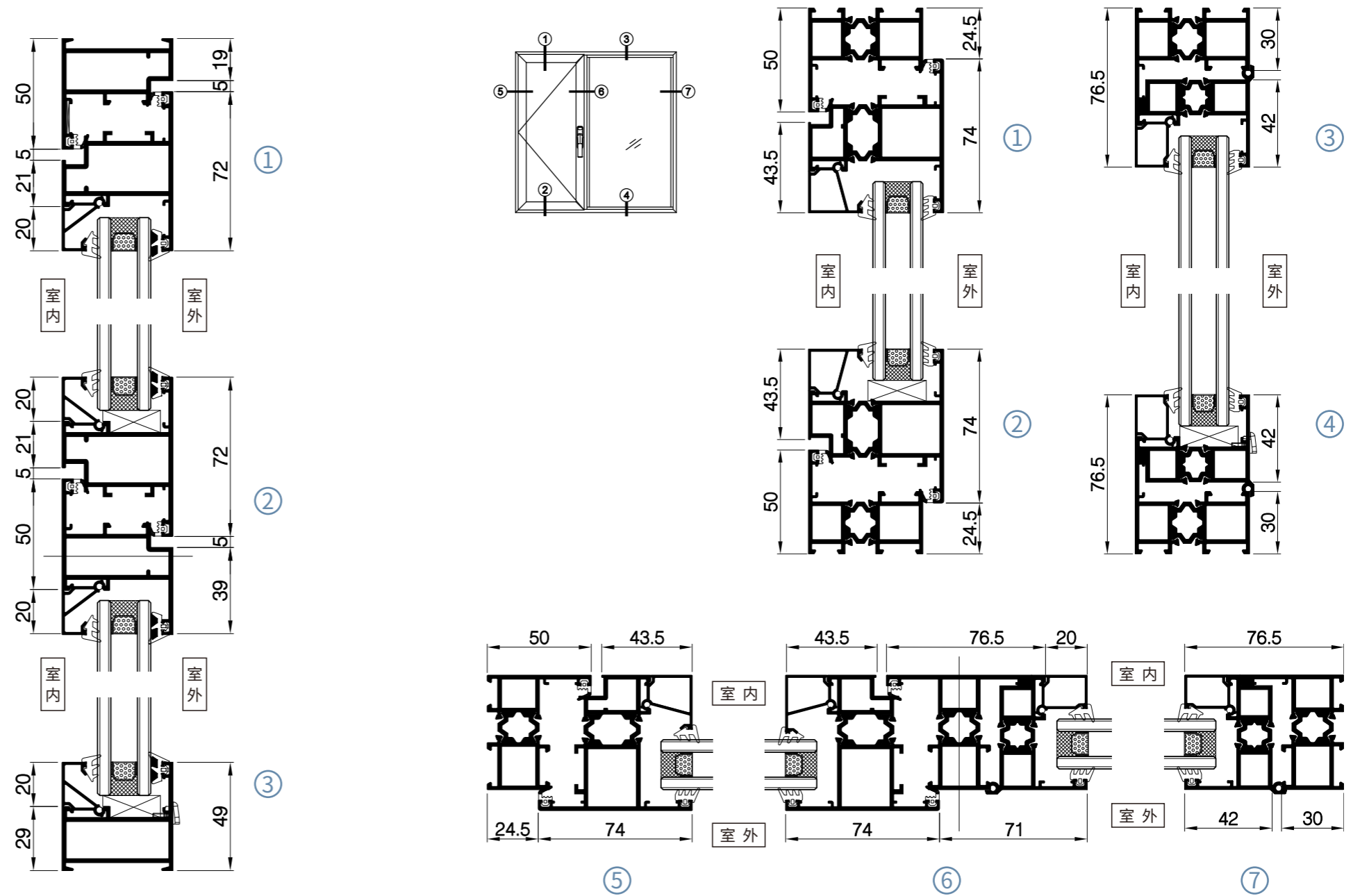
Starting from the climate zoning map, understand the basic requirements of building doors and windows in this area  
Continuous enhance Product Connotation and Refinement of Product Category

| 系统<br>SYSTEM                   | 系列<br>SERIES   | 隔热条宽度<br>WIDTH OF HEAT<br>INSULATION STRIP | 玻璃配置<br>GLASS CONFIGURATION | 保温性能<br>[W/(m²·K)]<br>INSULATION<br>PERFORMANCE | 水密性能<br>等级<br>WATER<br>TIGHTNESS | 气密性能<br>等级<br>AIR TIGHTNESS | 抗风压性能<br>等级<br>WIND PRESSURE<br>RESISTANCE | 隔声性能<br>(dB)<br>SOUND INSULATION<br>PERFORMANCE | 可配套<br>耐火完整性<br>(t/min)<br>FIRE INTEGRITY | 开启扇宽度范围<br>WIDTH RANGE<br>OF OPENING LEAF | 开启扇高度范围<br>HEIGHT RANGE<br>OF OPENING LEAF | 五金承重<br>HARDWARE<br>BEARING | 最大开启角度<br>MAXIMUM<br>OPENING ANGLE |
|--------------------------------|----------------|--|-----------------------------|---|----------------------------------|-----------------------------|--|---|---|---|--|-----------------------------|------------------------------------|
| 外平开窗系统<br>CASEMENT WINDOW      | 坚美系统50系列外平开窗   | —  | 6Low-e+12A+6                | 2.9   | 6                                | 8                           | 9  | 33  | 60  | 400mm-720mm                               | 800mm-1500mm                               | 60kg                        | 88°                                |
|                                | 坚美系统55系列外平开窗   | 14.8                                       | 6Low-e+12A+6                | 2.6   | 6                                | 8                           | 9  | 35  | 60  | 400mm-720mm                               | 800mm-1500mm                               | 60kg                        | 88°                                |
|                                | 坚美系统60系列外平开窗   | 20   | 6Low-e+12A+6                | 2.4   | 6                                | 8                           | 9  | 35  | 60  | 400mm-720mm                               | 800mm-1500mm                               | 60kg                        | 88°                                |
|                                | 坚美系统65系列外平开窗   | 24   | 6Low-e+12A+6                | 2.2   | 6                                | 8                           | 9  | 36  | 60  | 400mm-720mm                               | 800mm-1500mm                               | 60kg                        | 88°                                |
| 内平开窗系统<br>TILT-AND-TURN WINDOW | 坚美系统55系列内平开窗   | 14.8                                       | 6Low-e+12A+6                | 2.6   | 6                                | 8                           | 9  | 35  | 60  | 390mm-1200mm                              | 600mm-1800mm                               | 100kg                       | 90°                                |
|                                | 坚美系统60系列内平开窗   | 20   | 6Low-e+12A+6                | 2.4   | 6                                | 8                           | 9  | 35  | 60  | 390mm-1200mm                              | 600mm-1800mm                               | 100kg                       | 90°                                |
|                                | 坚美系统65系列内平开窗   | 24   | 6Low-e+12A+6                | 2.2   | 6                                | 8                           | 9  | 36  | 60  | 390mm-1200mm                              | 600mm-1800mm                               | 100kg                       | 90°                                |
| 平开门系统<br>HINGED DOOR           | 坚美系统50系列外平开门   | —  | 6Low-e+12A+6                | 2.9   | 6                                | 8                           | 9  | 30  | /   | 850mm-1000mm                              | 2200mm-2400mm                              | 120kg                       | 110°                               |
|                                | 坚美系统55系列外平开门   | 14.8                                       | 6Low-e+12A+6                | 2.6   | 6                                | 8                           | 9  | 32  | /   | 850mm-1000mm                              | 2200mm-2400mm                              | 120kg                       | 110°                               |
|                                | 坚美系统60系列外平开门   | 20   | 6Low-e+12A+6                | 2.4   | 6                                | 8                           | 9  | 33  | /   | 850mm-1000mm                              | 2200mm-2400mm                              | 120kg                       | 110°                               |
|                                | 坚美系统65系列外平开门   | 24   | 6Low-e+12A+6                | 2.2   | 6                                | 8                           | 9  | 34  | /   | 850mm-1000mm                              | 2200mm-2400mm                              | 120kg                       | 110°                               |
| 推拉窗系统<br>SLIDING WINDOW        | 坚美系统105系列推拉窗   | —  | 6Low-e+12A+6                | 3.7   | 6                                | 8                           | 9  | 25  | /   | 450mm-1000mm                              | 600mm-1600mm                               | ≤100kg                      | /                                  |
|                                | 坚美系统105系列推拉窗   | 14.8                                       | 6Low-e+12A+6                | 2.7   | 6                                | 8                           | 9  | 26  | /   | 450mm-1000mm                              | 600mm-1600mm                               | ≤100kg                      | /                                  |
| 推拉门系统<br>SLIDING DOOR          | 坚美系统115系列推拉门   | —  | 6Low-e+12Ar+6               | 2.9   | 4                                | 6                           | 9  | 25  | /   | 900mm-1200mm                              | 2200mm-2400mm                              | ≤120kg                      | /                                  |
|                                | 坚美系统115系列推拉门   | 14.8                                       | 6Low-e+12A+6                | 2.6   | 4                                | 6                           | 9  | 26  | /   | 900mm-1200mm                              | 2200mm-2400mm                              | ≤160kg                      | /                                  |
| 提升推拉门系统<br>LIFT-AND-SLIDE DOOR | 坚美系统155系列提升推拉门 | —  | 6Low-e+12Ar+6               | 3.0   | 4                                | 7                           | 9  | 27  | /   | 1200mm-1800mm                             | 2200mm-2700mm                              | ≤300kg                      | /                                  |
|                                | 坚美系统155系列提升推拉门 | 14.8                                       | 6Low-e+12Ar+6               | 2.9   | 4                                | 7                           | 9  | 28  | /   | 1200mm-1800mm                             | 2200mm-2700mm                              | ≤300kg                      | /                                  |

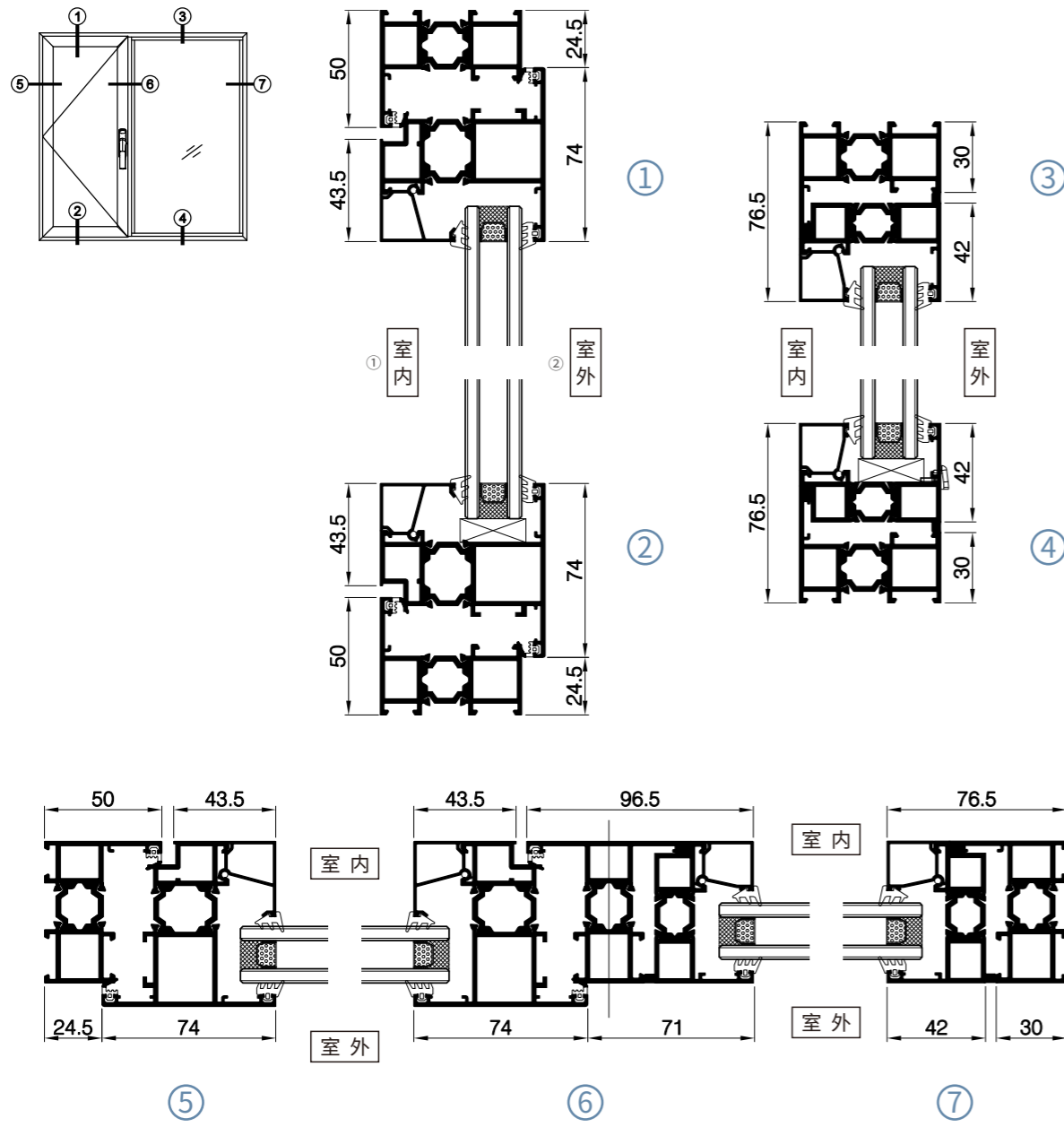
## 坚美系统50系列 外平开窗 50-CASEMENT WINDOW



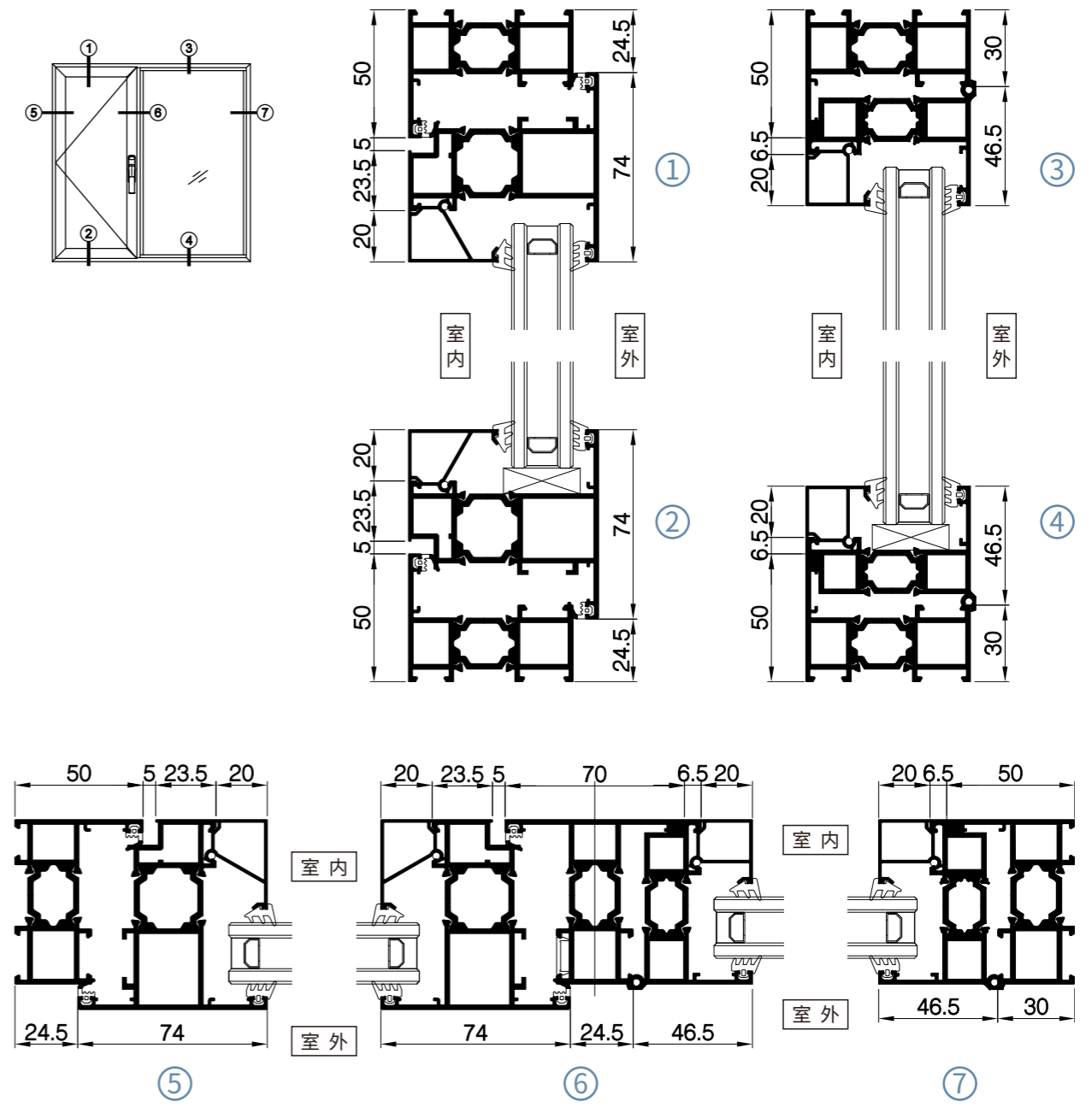
## 坚美系统55系列 外平开窗 55-CASEMENT WINDOW



## 坚美系统60系列 外平开窗 60-CASEMENT WINDOW

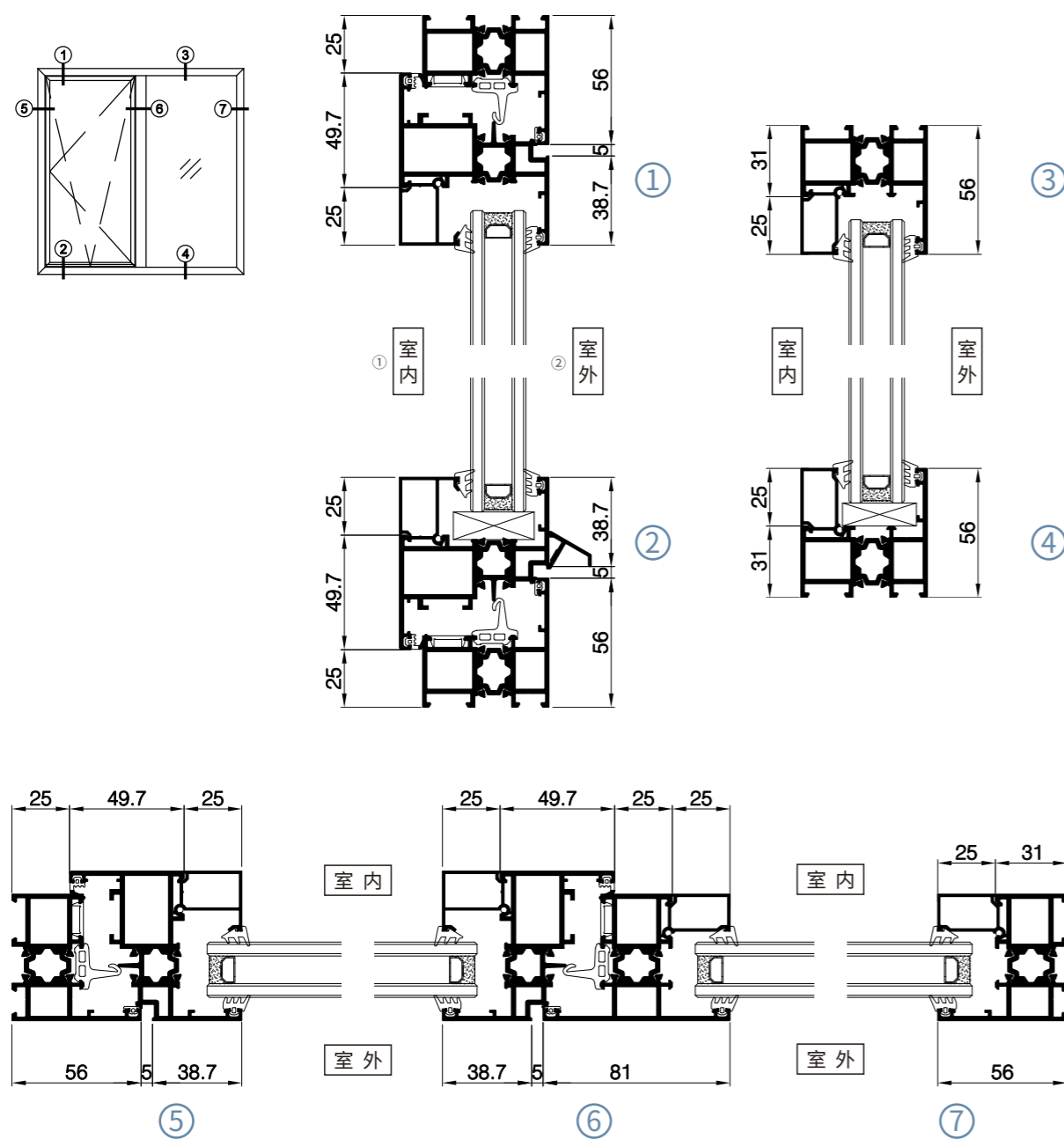


## 坚美系统65系列 外平开窗 65-CASEMENT WINDOW



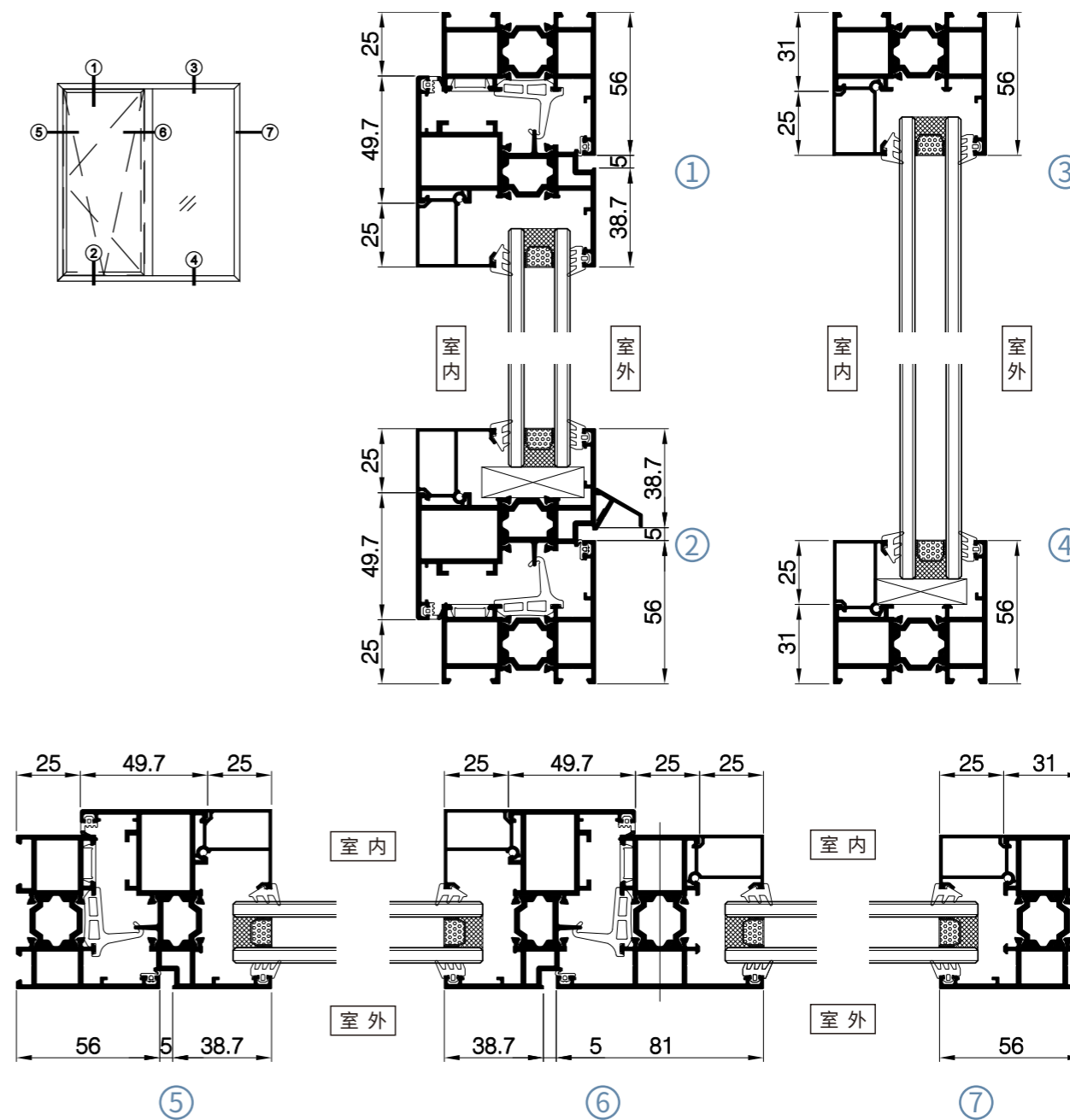
## 坚美系统55系列 内平开窗

55-TILT-AND-TURN WINDOW

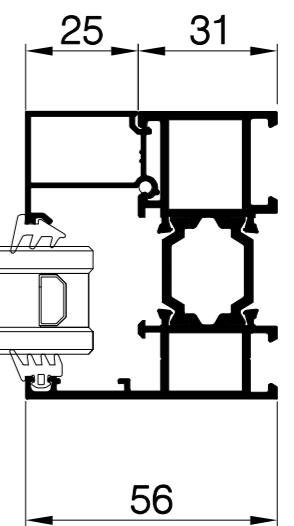
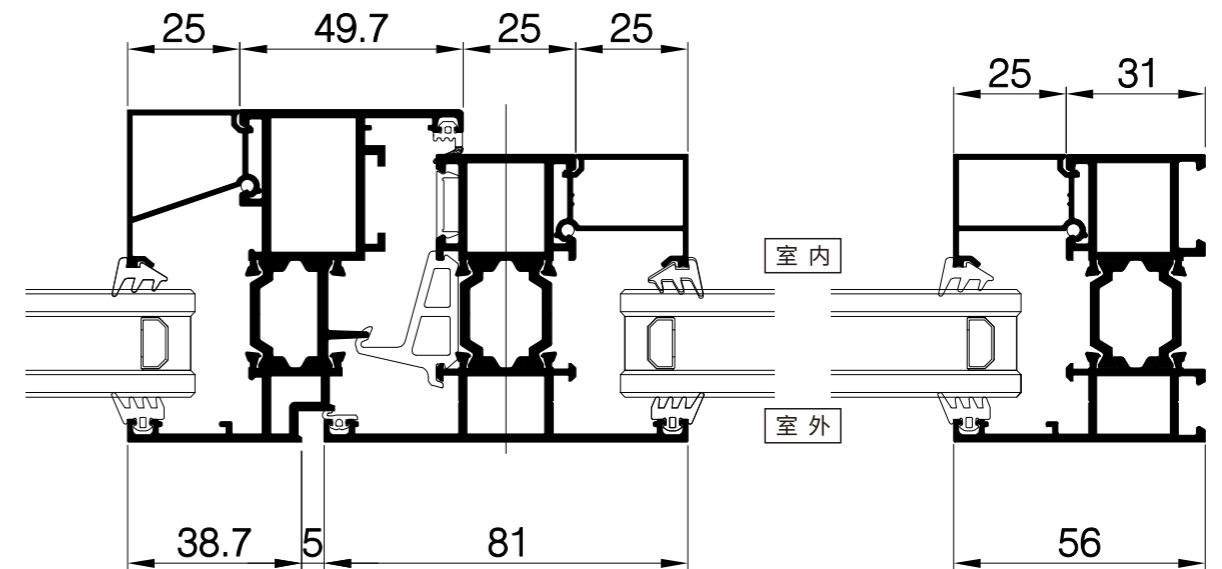
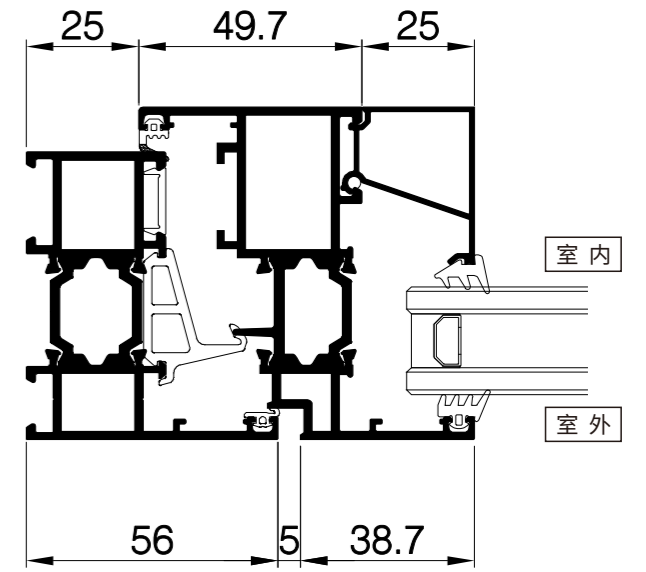
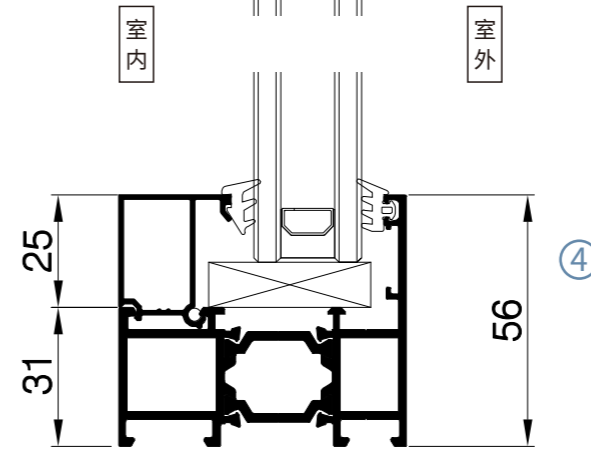
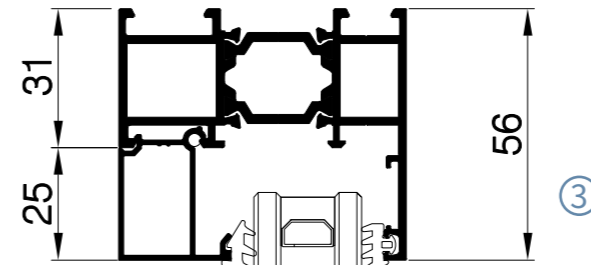
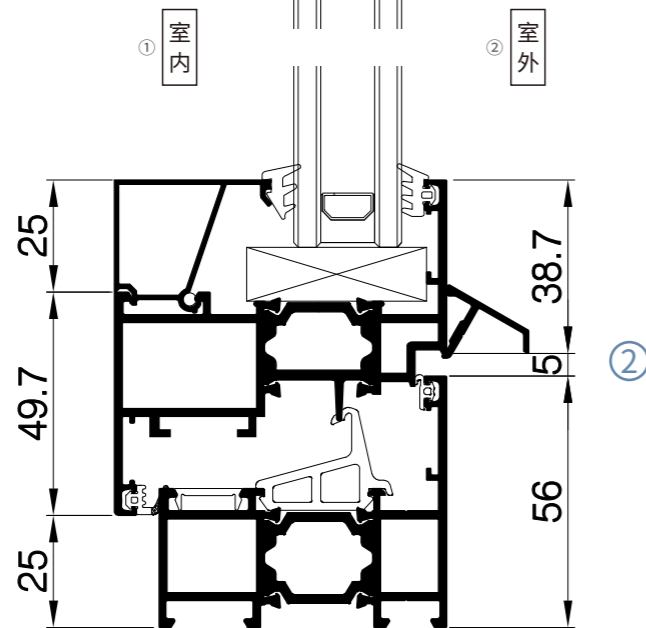
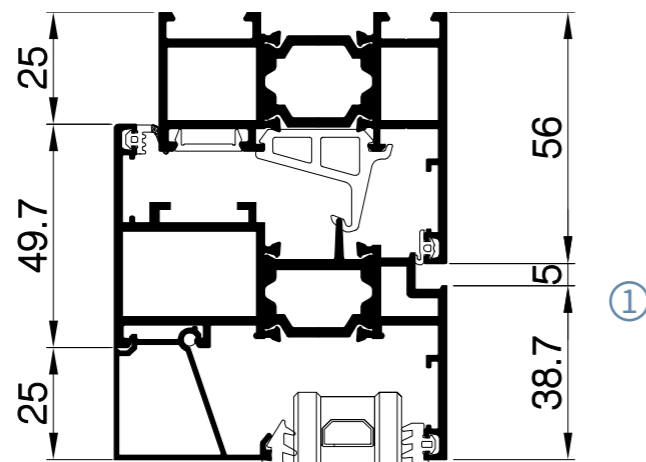
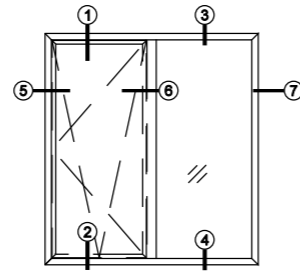


## 坚美系统60系列 内平开窗

60-TILT-AND-TURN WINDOW

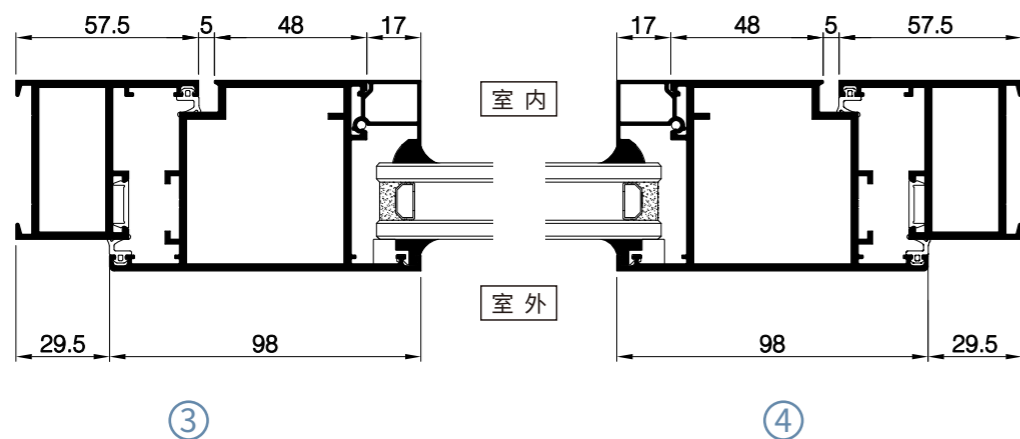
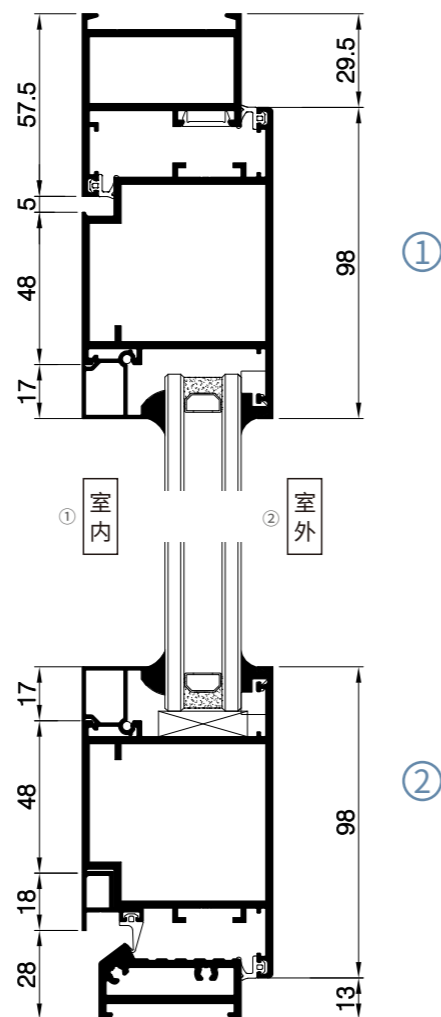
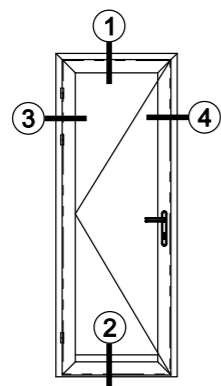


坚美系统65系列  
内平开窗  
65-TILT-AND-TURN WINDOW

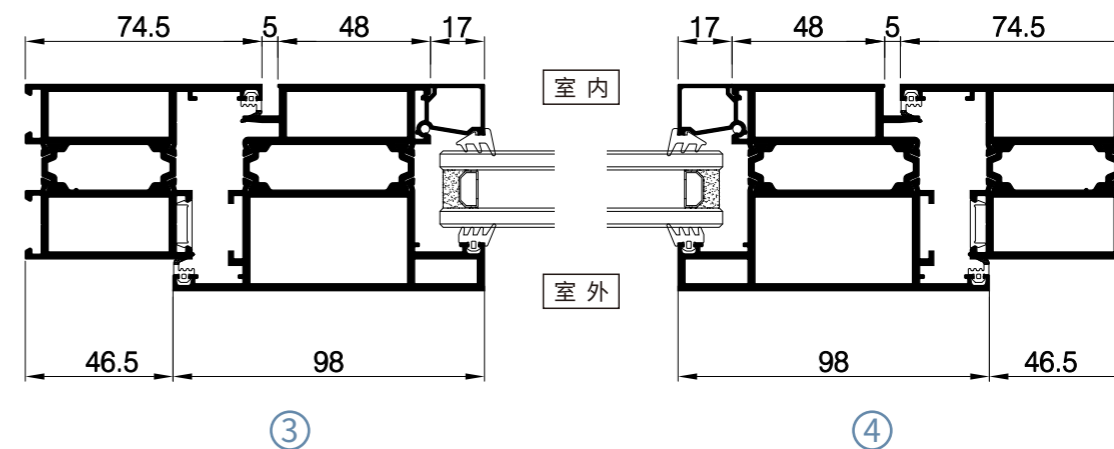
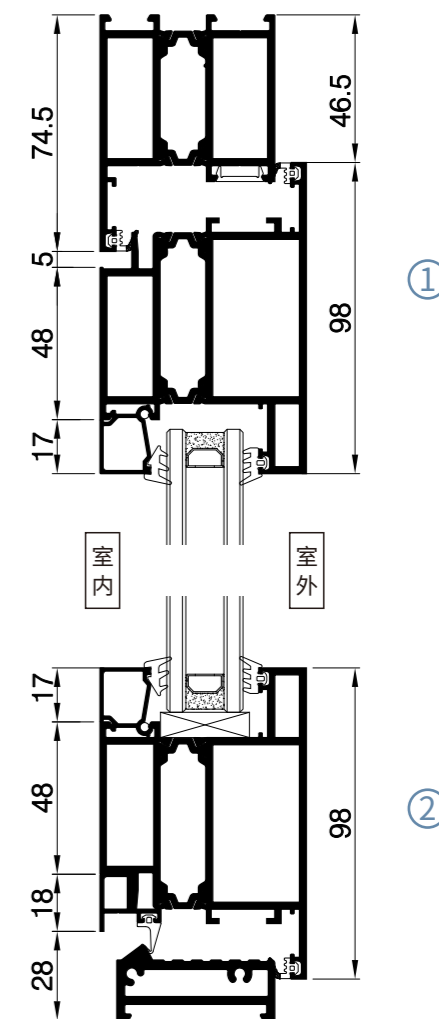
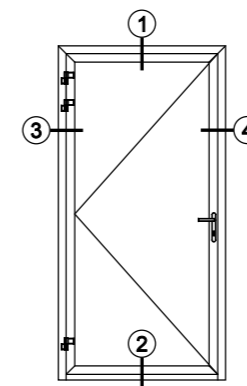




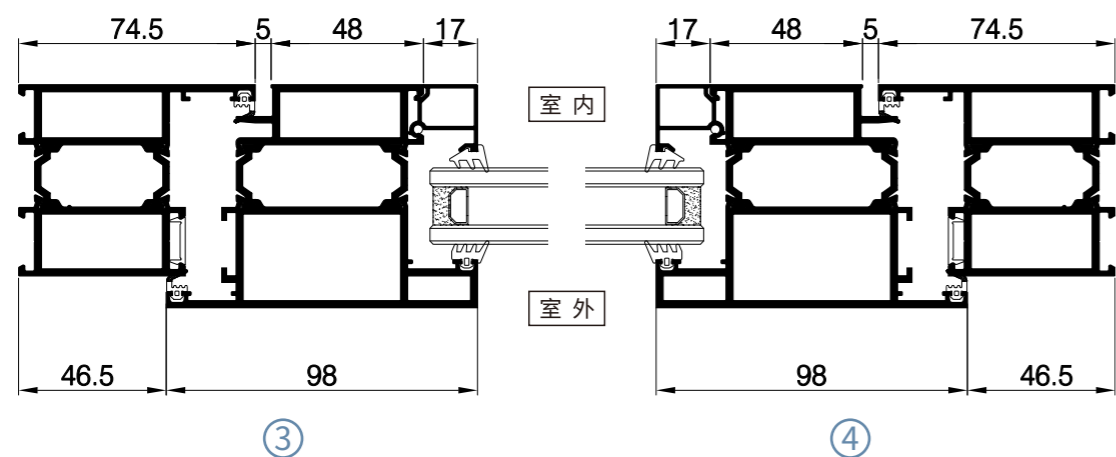
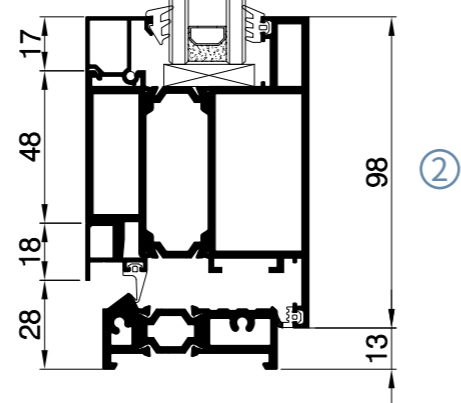
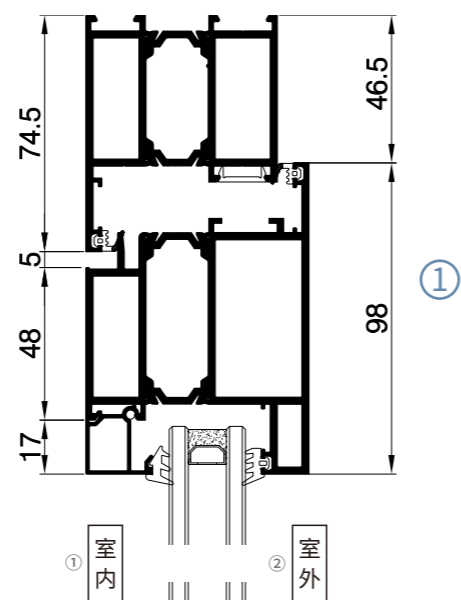
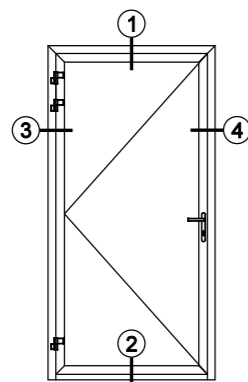
### 坚美系统50系列 平开门 50-HINGED DOOR



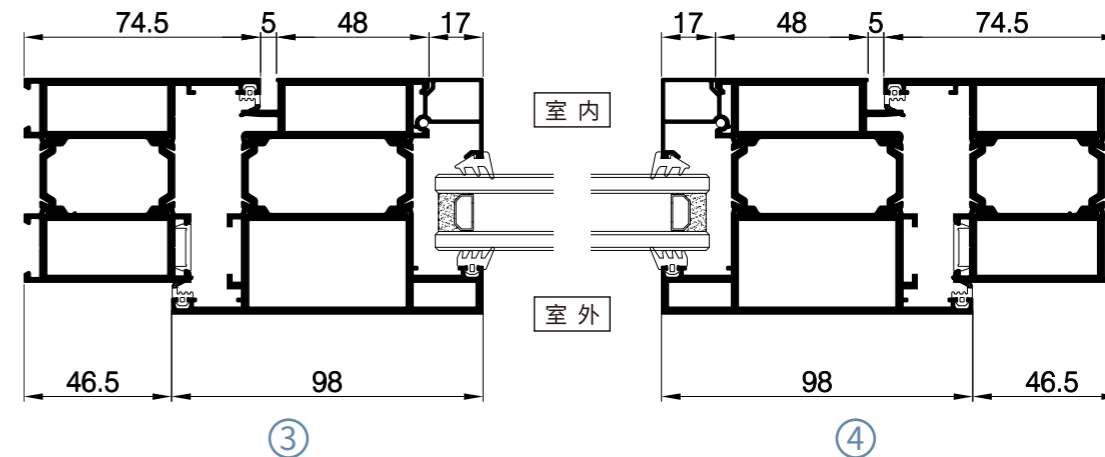
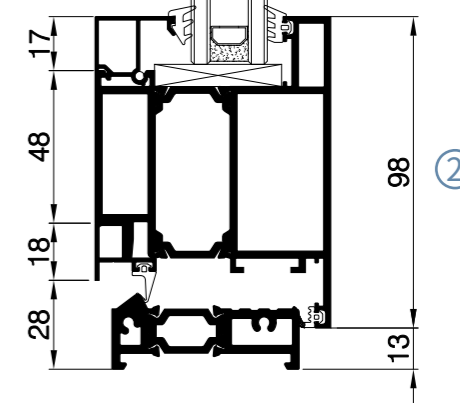
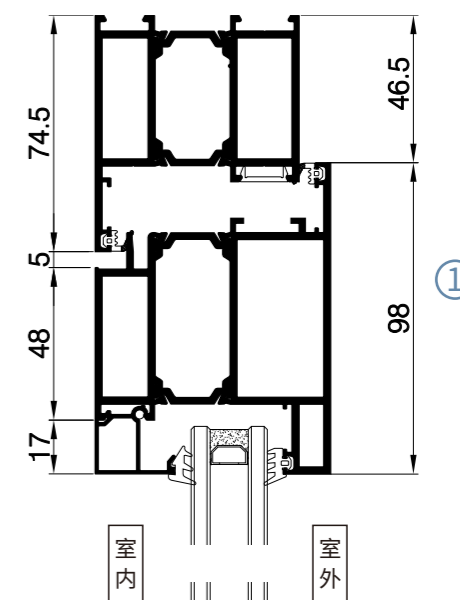
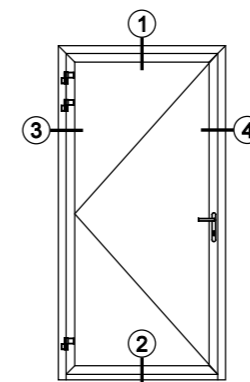
### 坚美系统55系列 平开门 55-HINGED DOOR



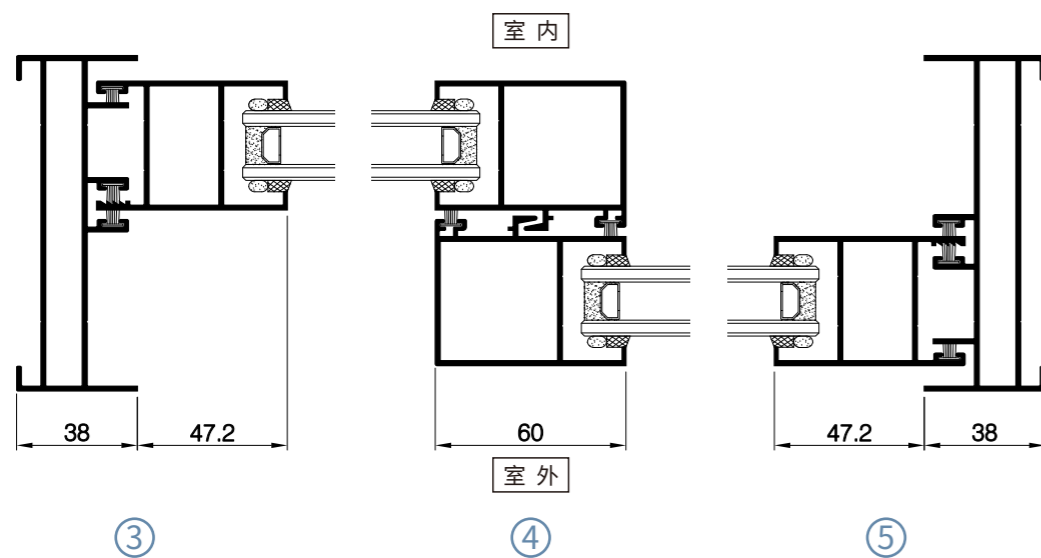
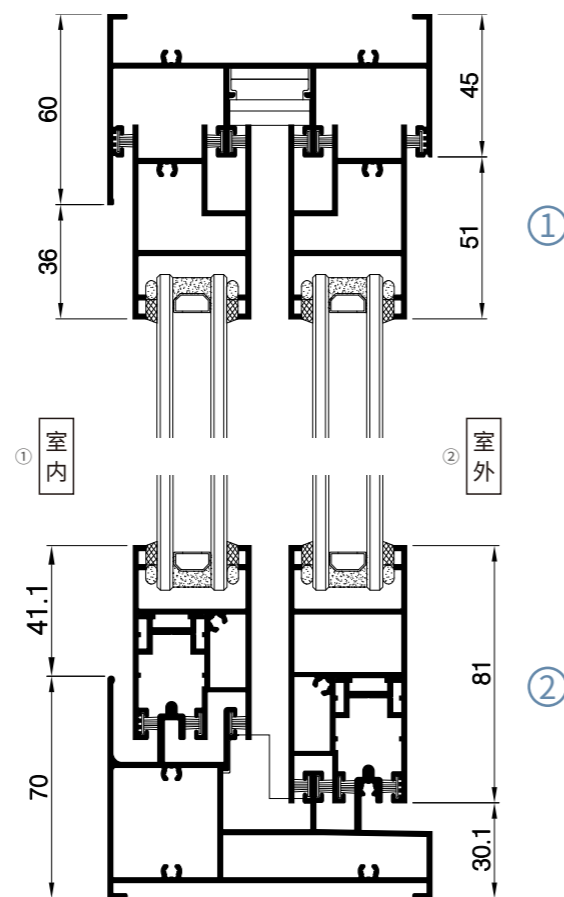
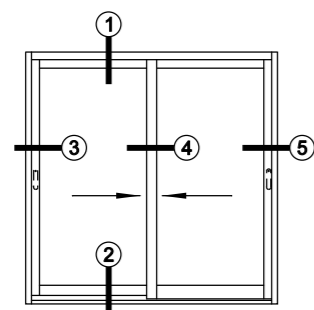
### 坚美系统60系列 平开门 60-HINGED DOOR



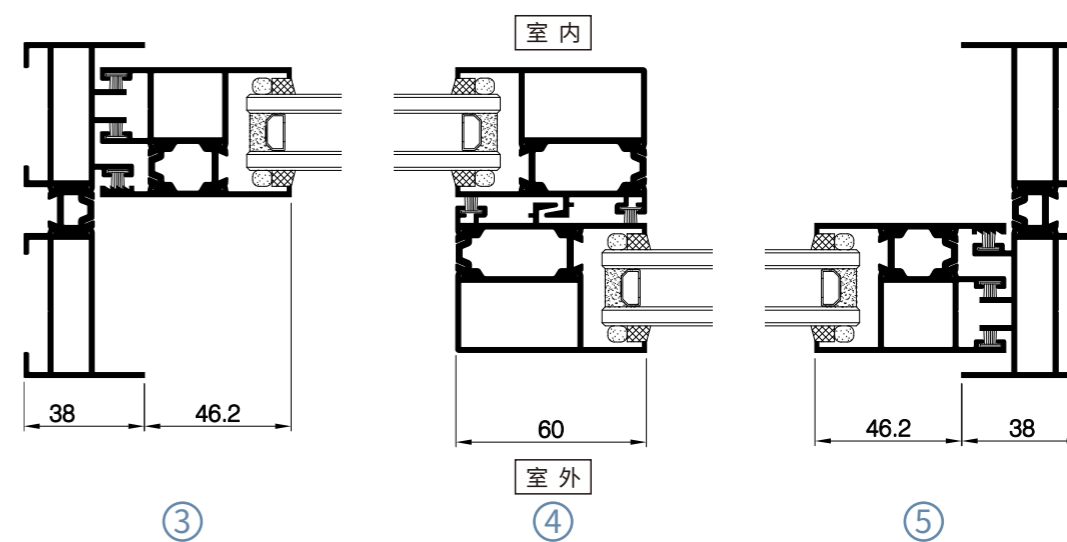
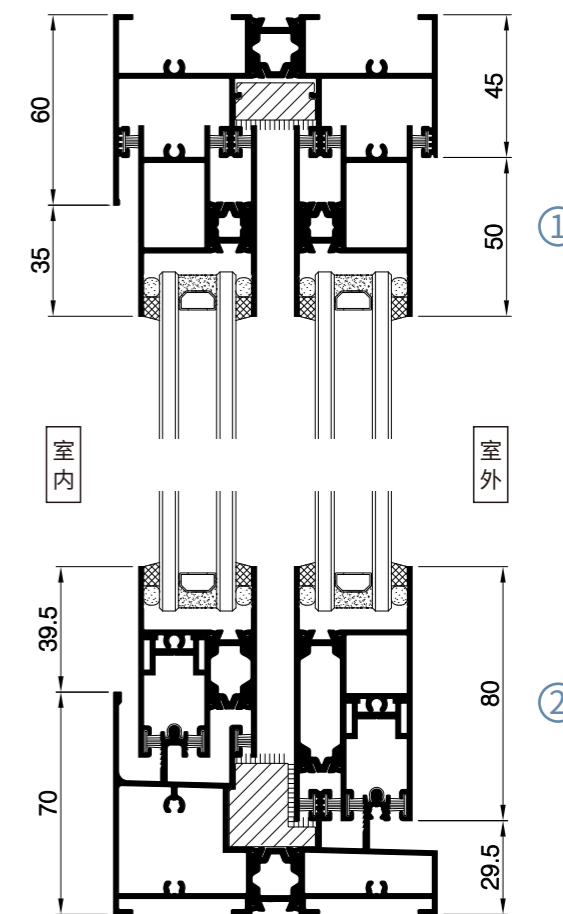
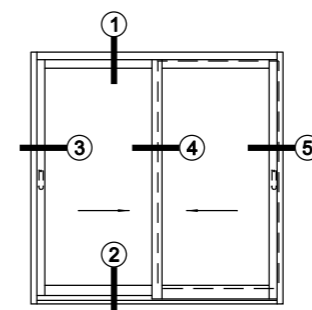
### 坚美系统65系列 平开门 65-HINGED DOOR



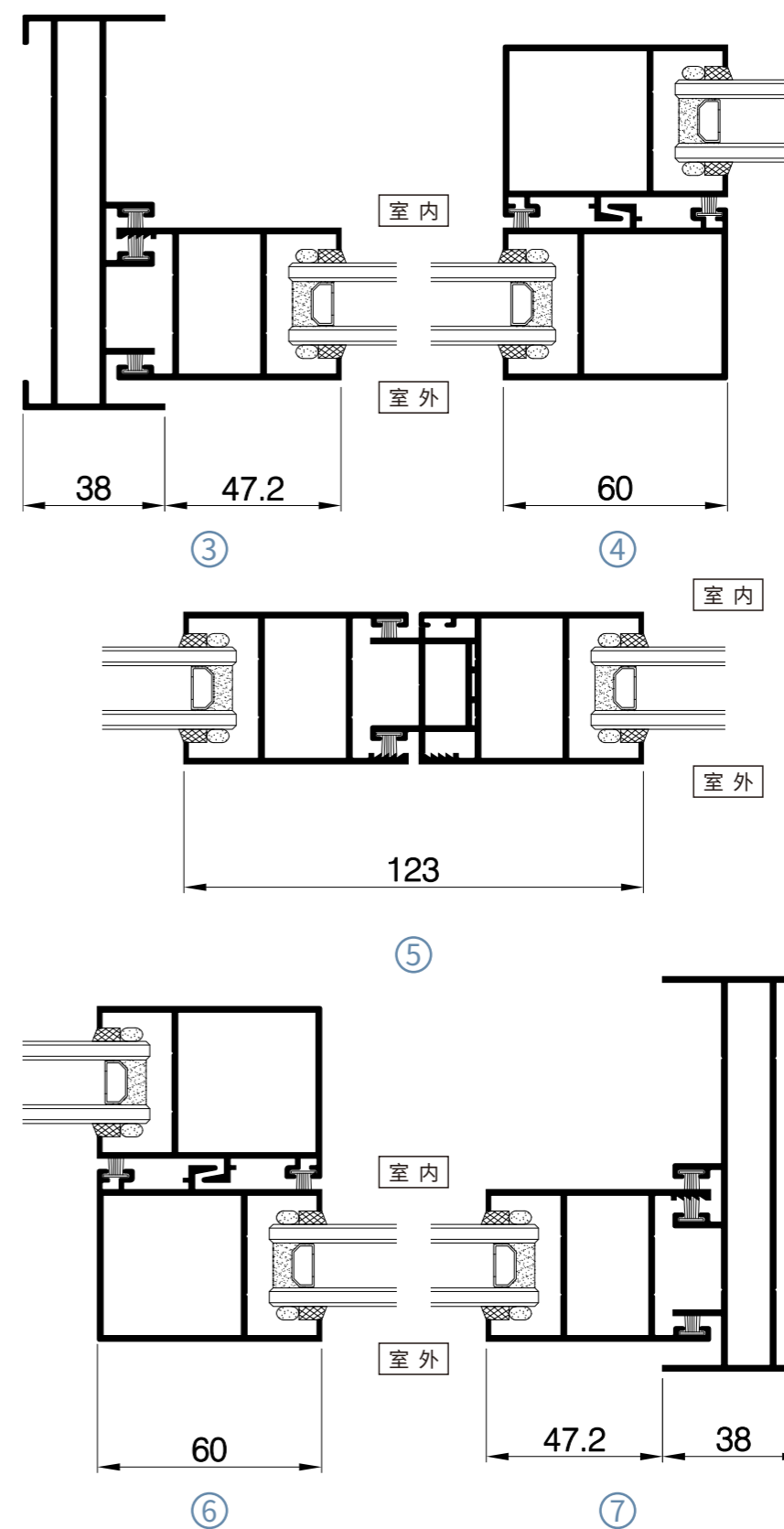
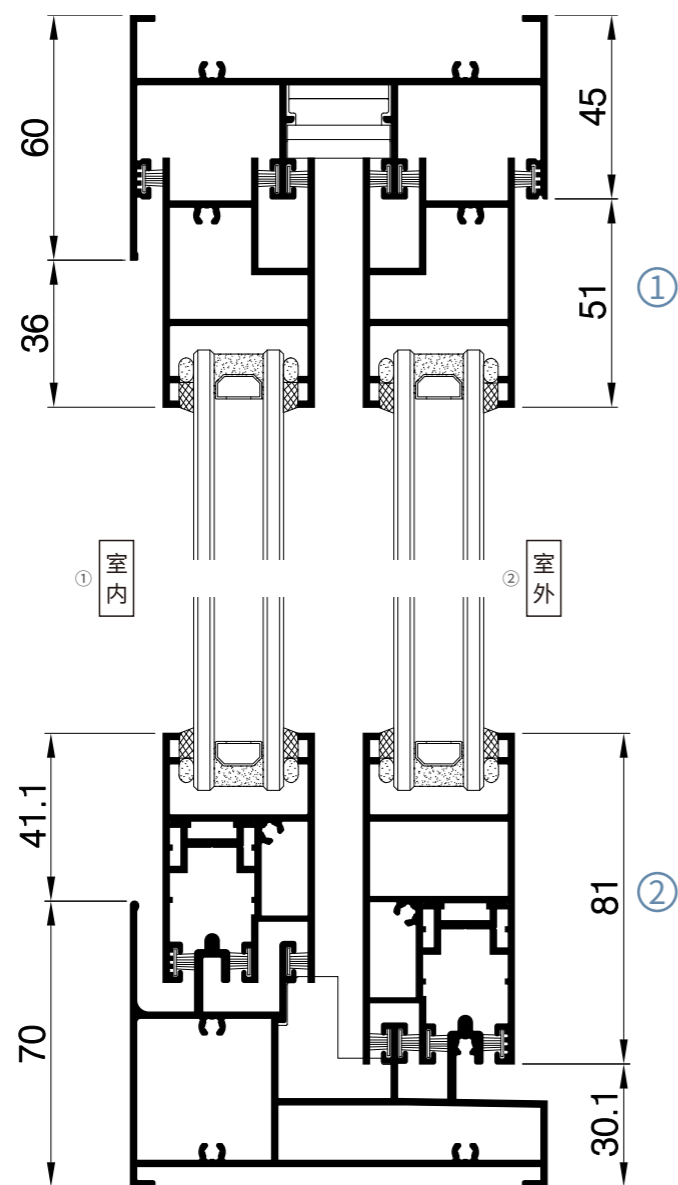
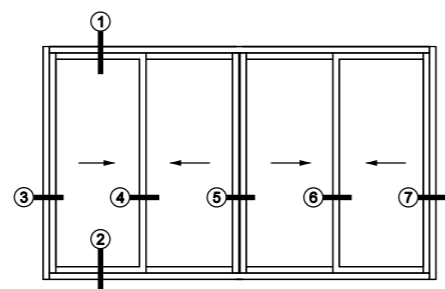
### 坚美系统105系列 推拉窗 105-SLIDING WINDOW



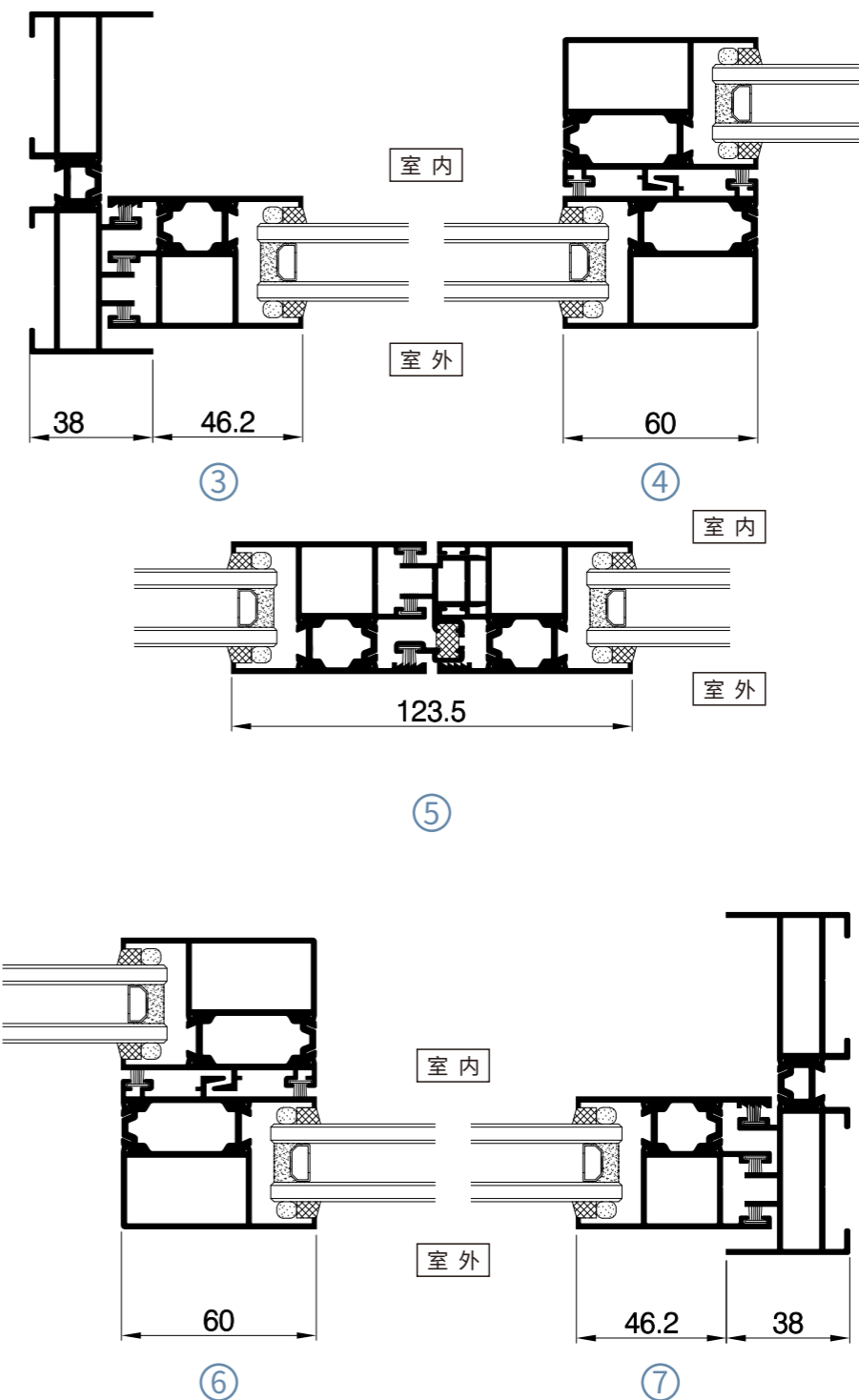
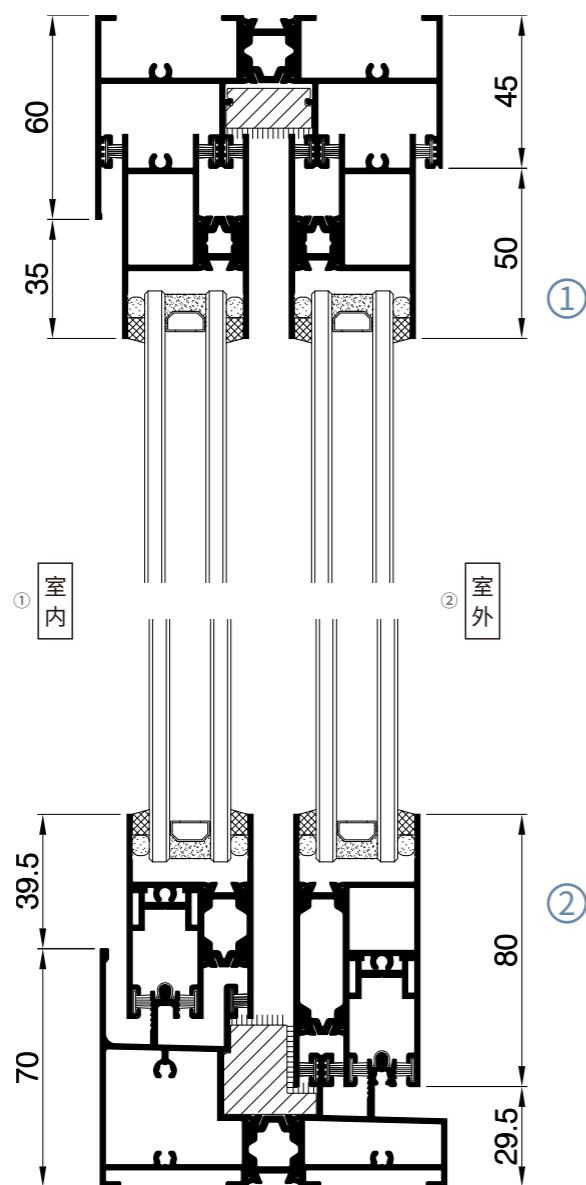
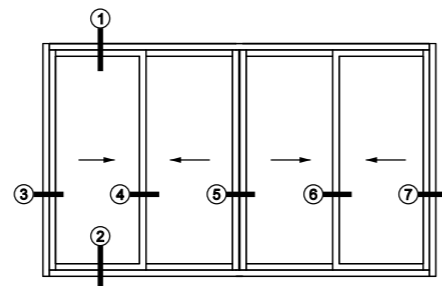
### 坚美系统105系列 推拉窗 105-SLIDING WINDOW



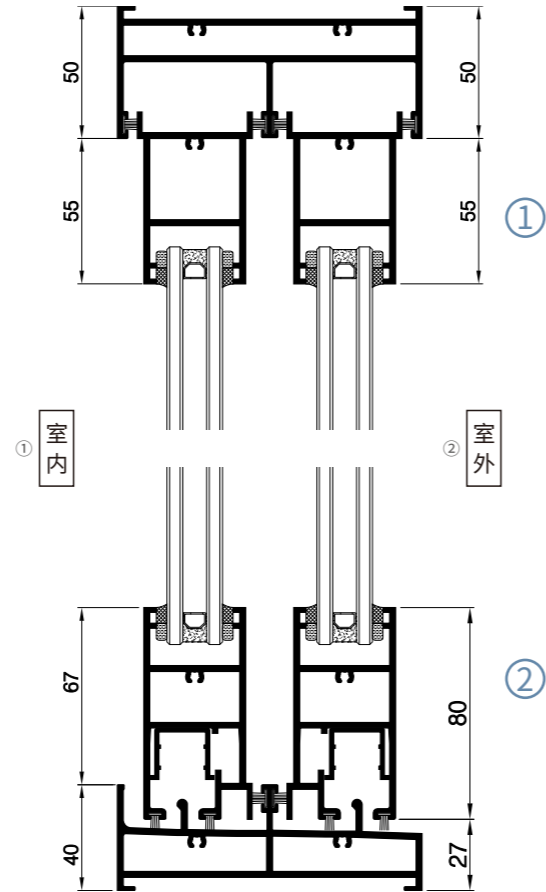
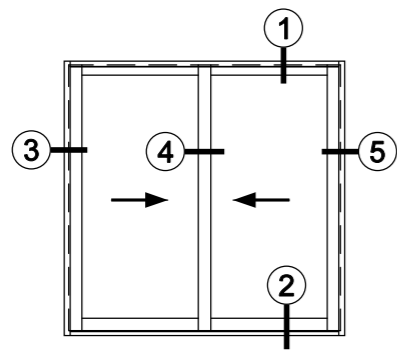
坚美系统105系列  
推拉窗  
105-SLIDING WINDOW



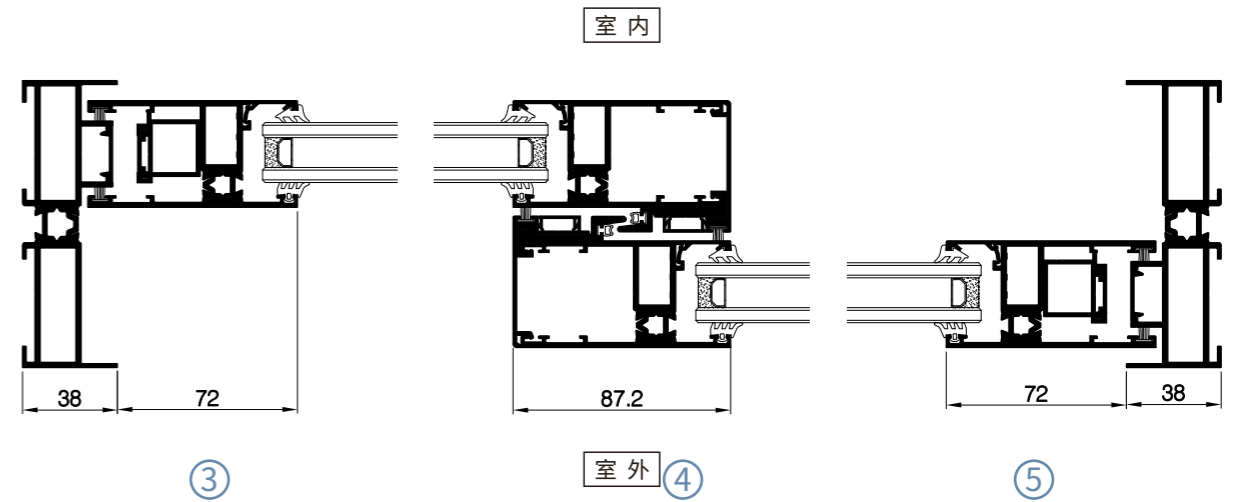
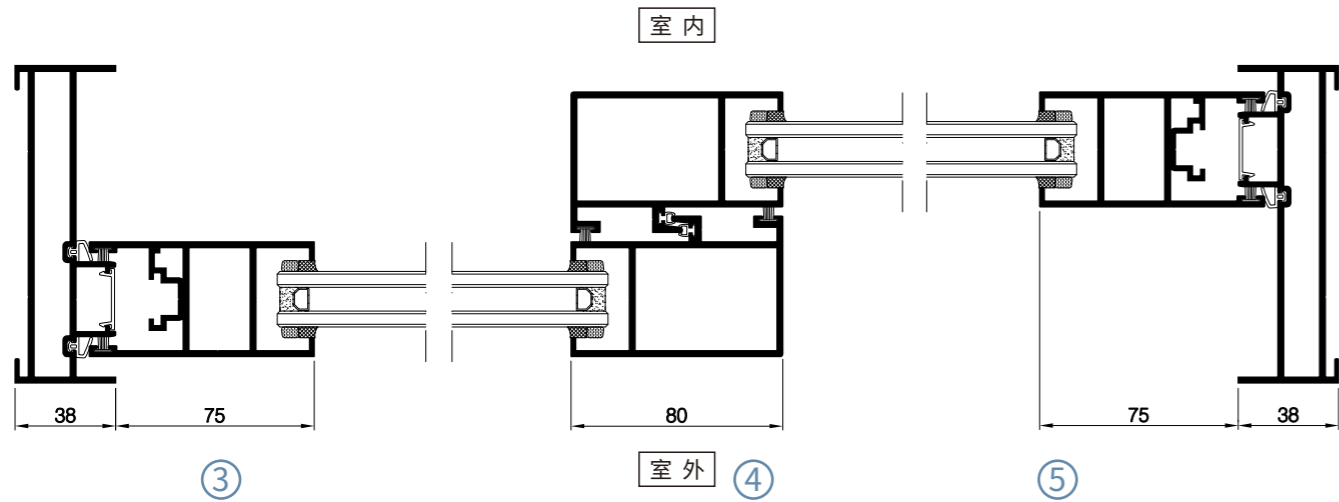
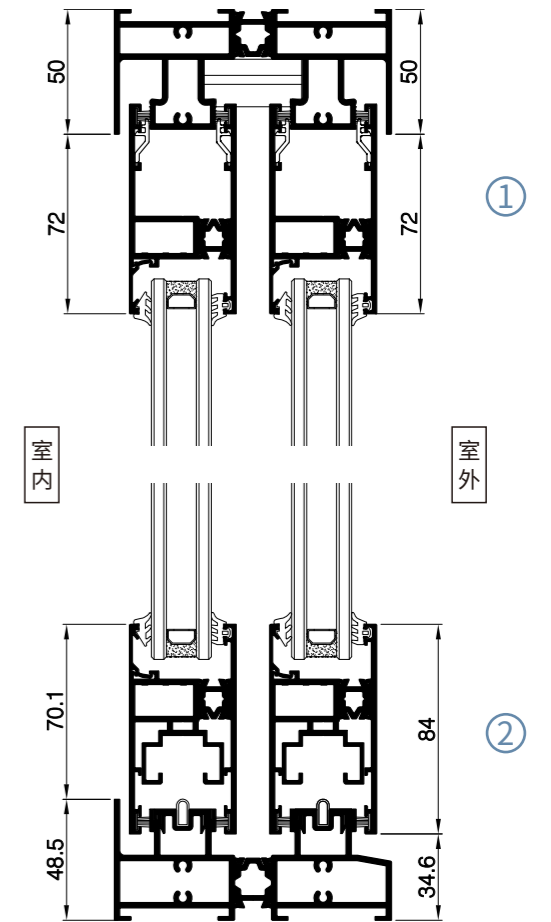
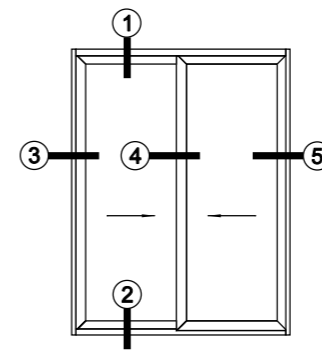
坚美系统105系列  
推拉窗  
105-SLIDING WINDOW



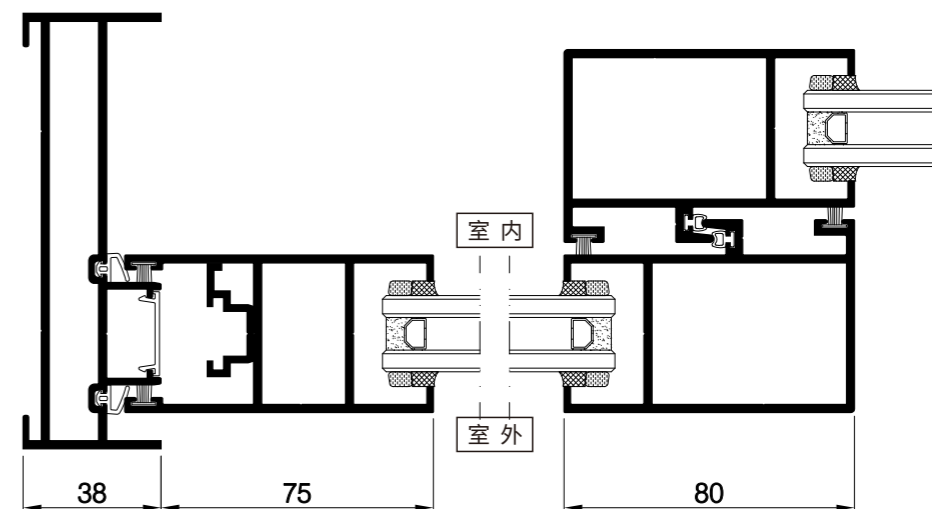
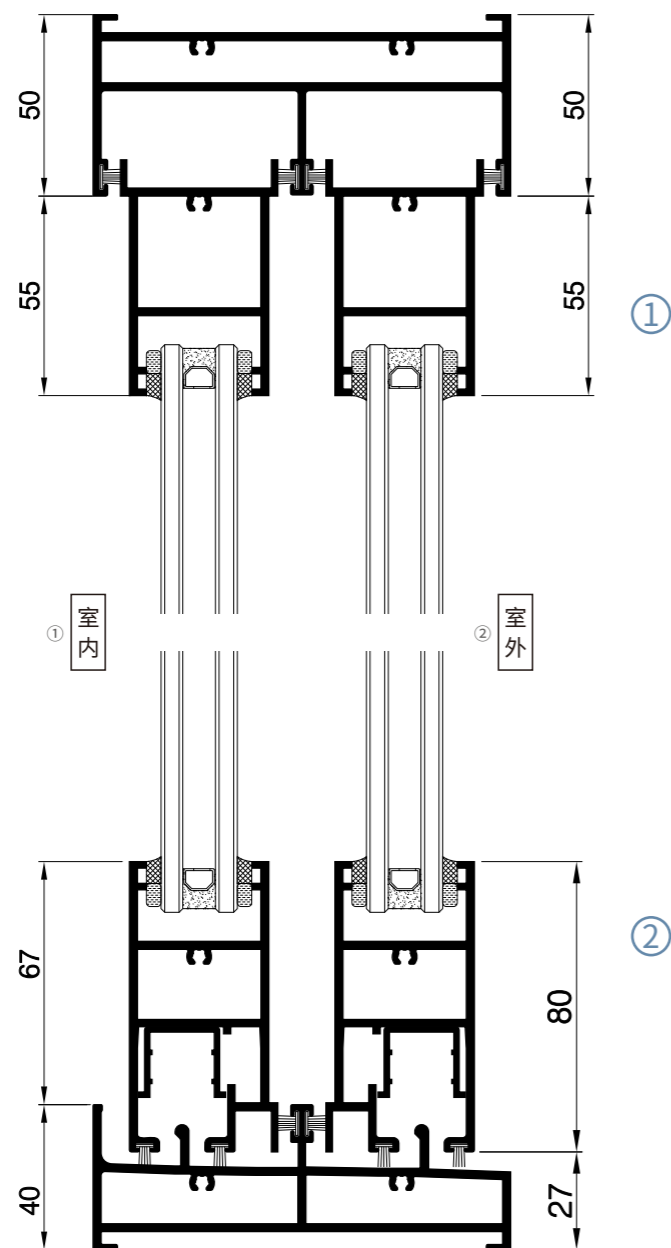
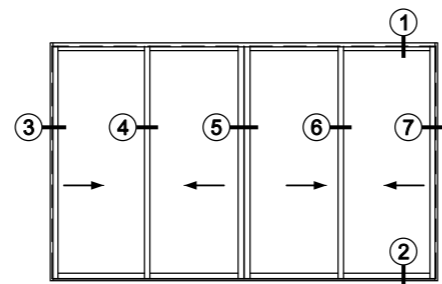
### 坚美系统115系列 推拉门 115-SLIDING DOOR



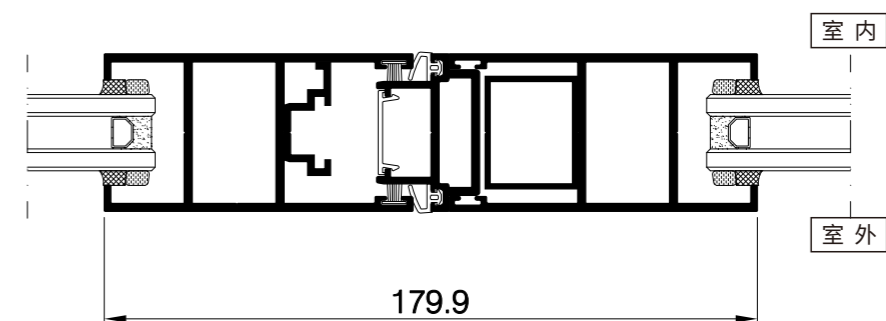
### 坚美系统115系列 推拉门 115-SLIDING DOOR



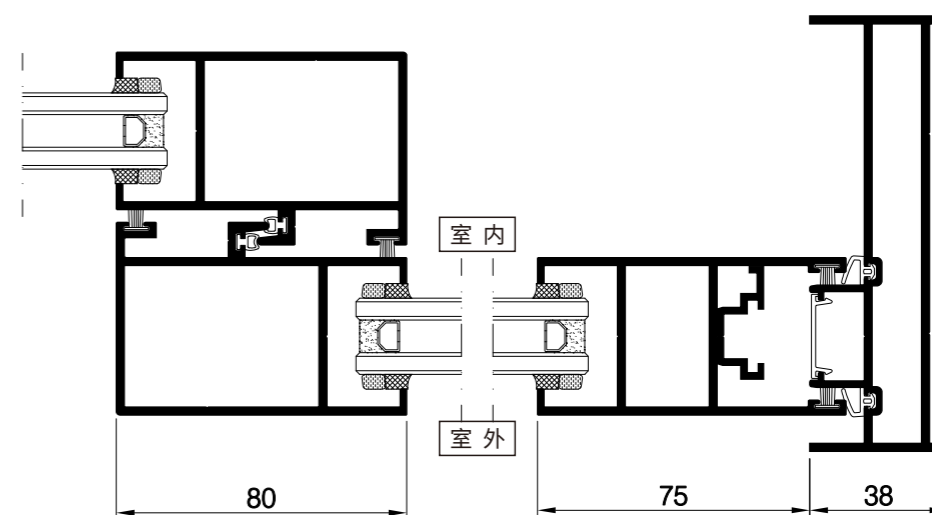
坚美系统115系列  
推拉门  
115-SLIDING DOOR



③ ④

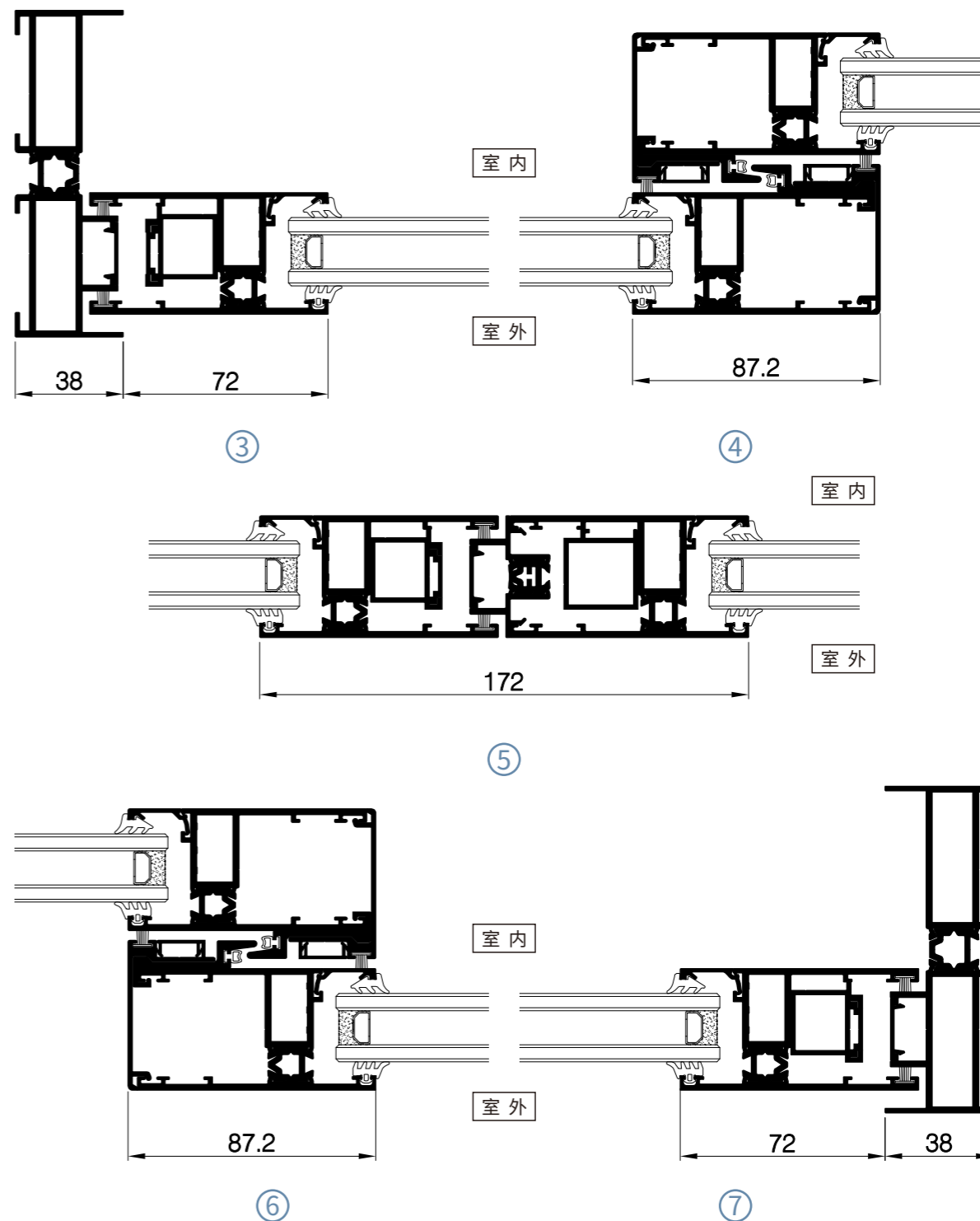
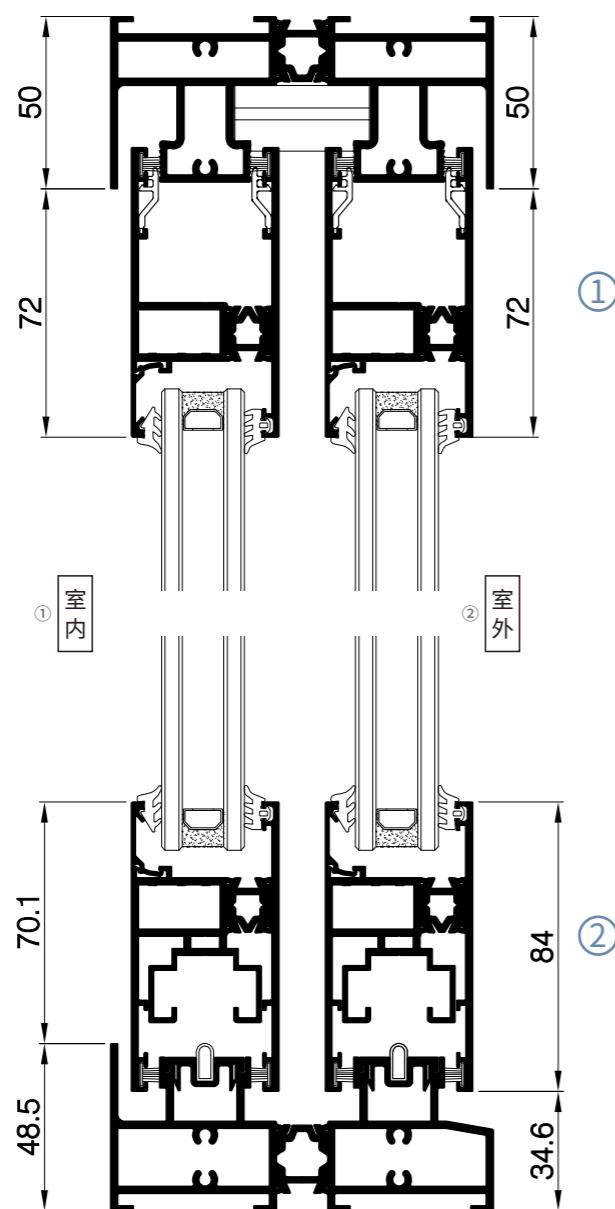
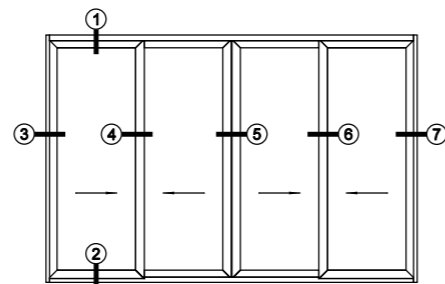


⑤



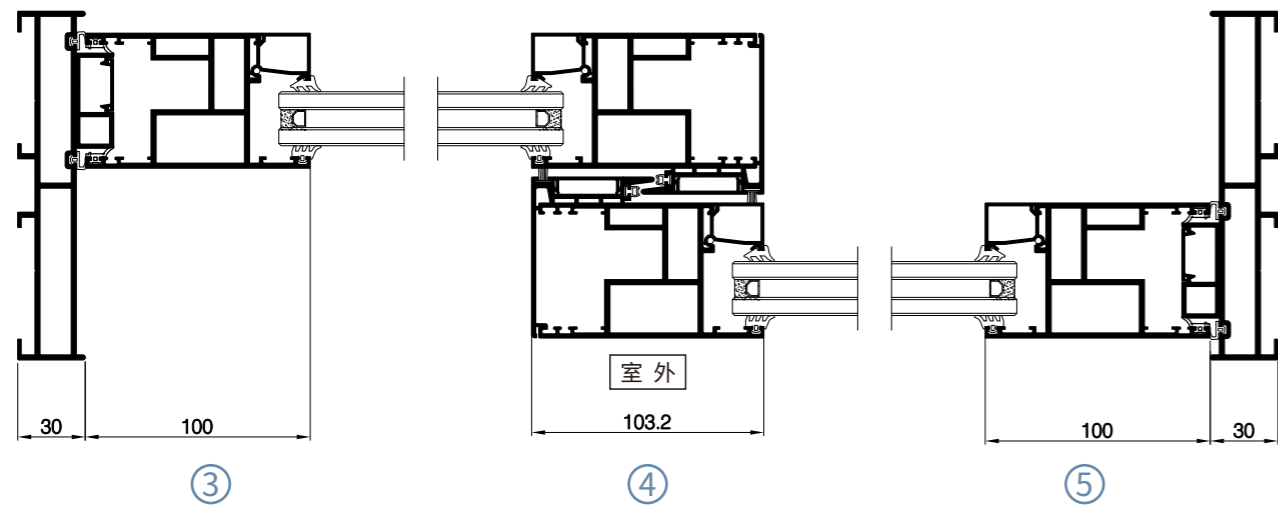
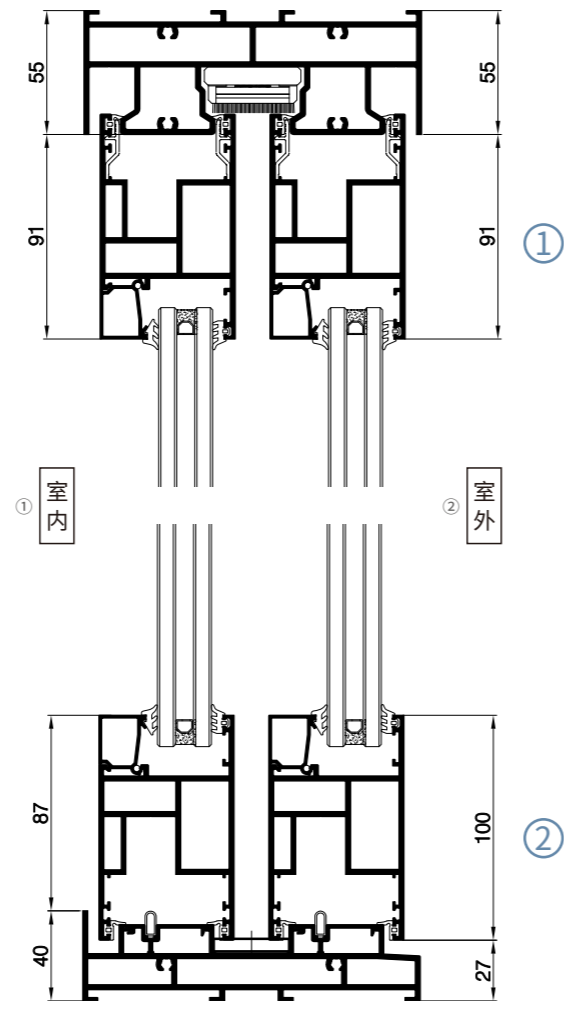
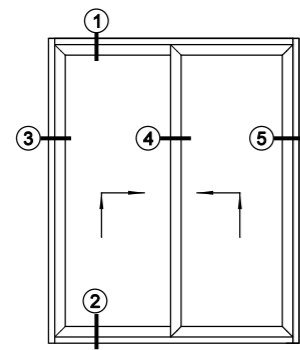
⑥ ⑦

坚美系统115系列  
推拉门  
115-SLIDING DOOR

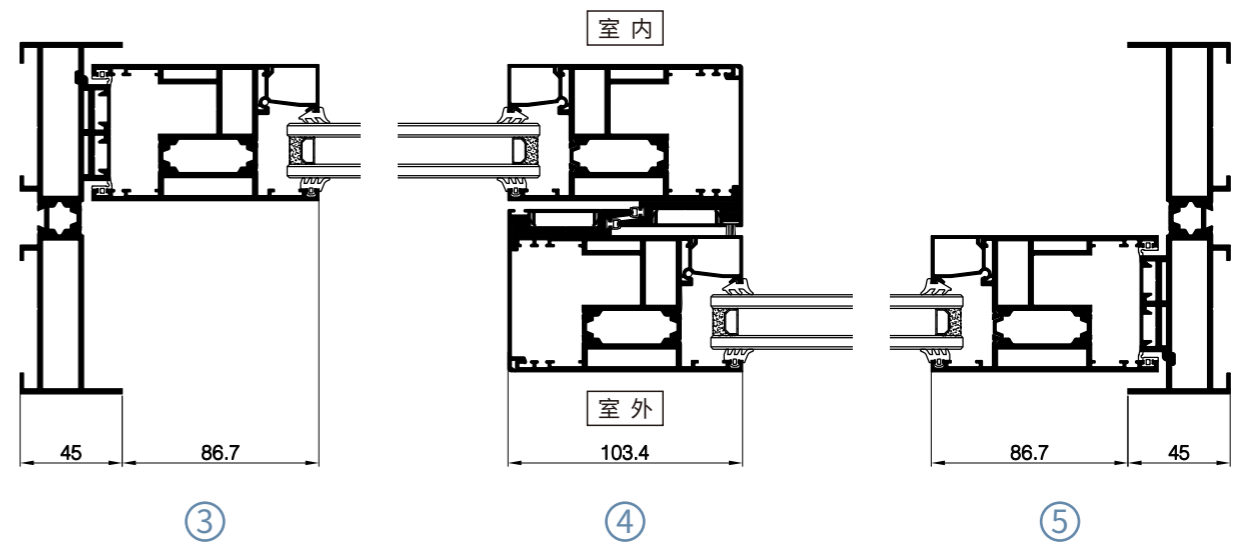
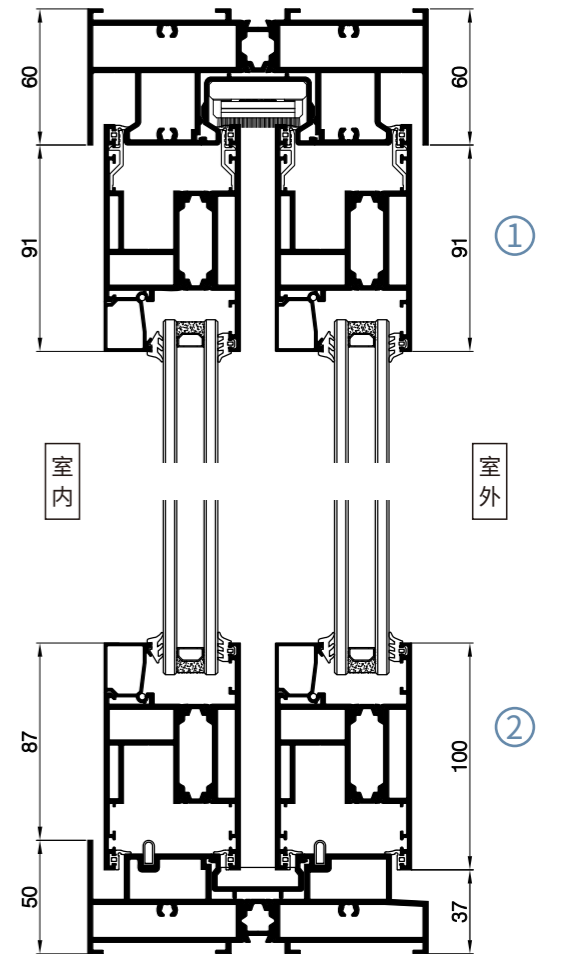
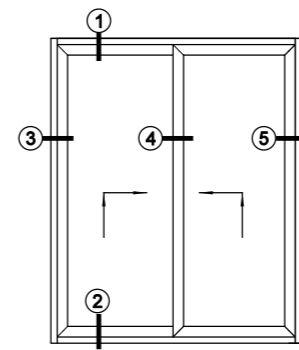




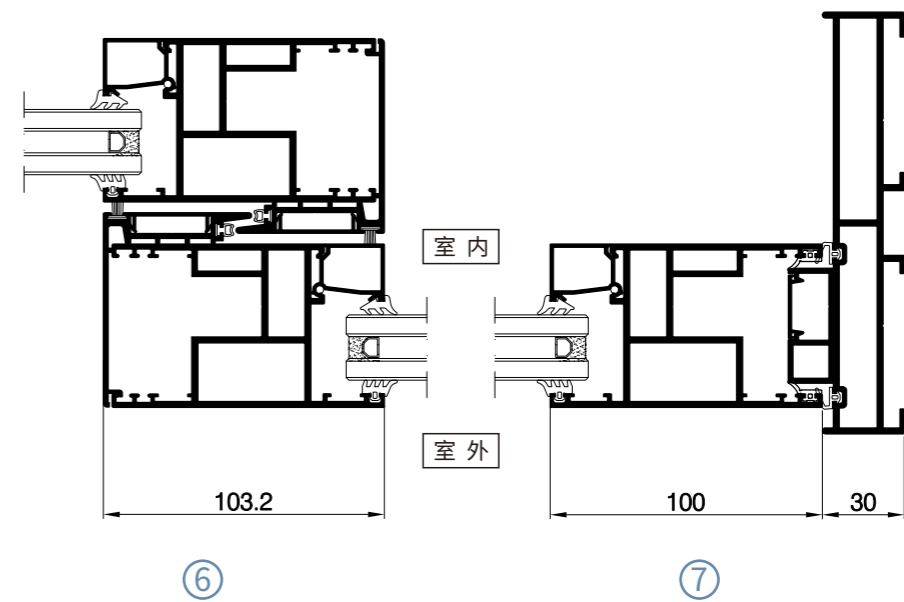
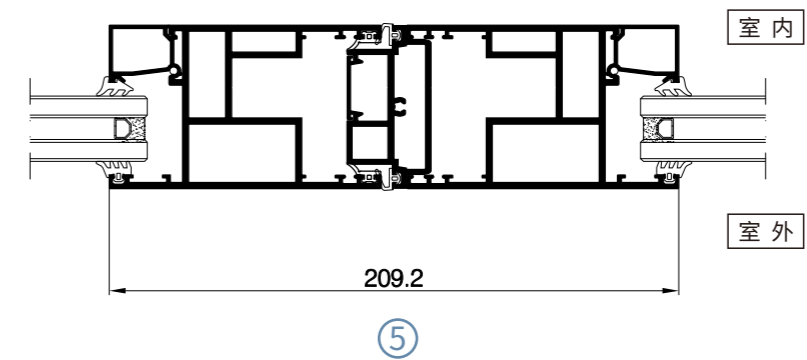
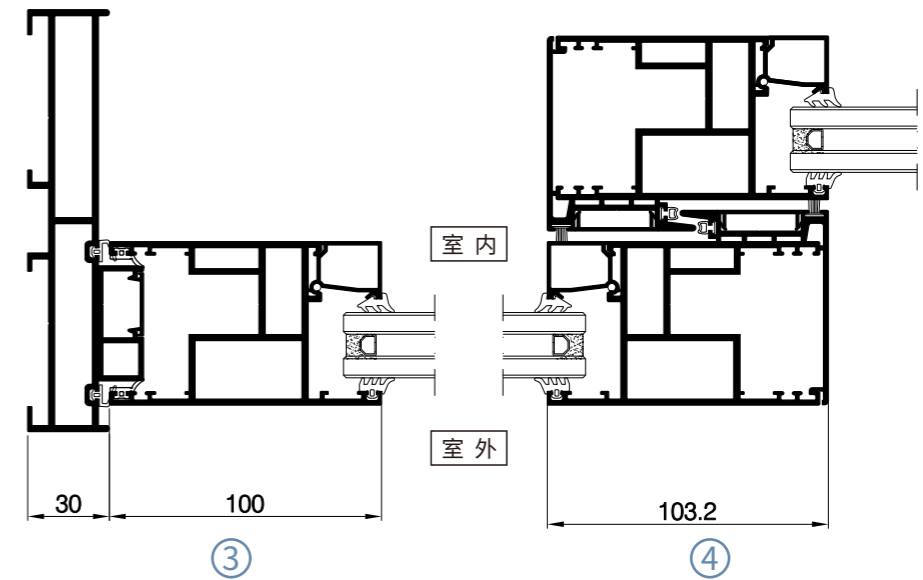
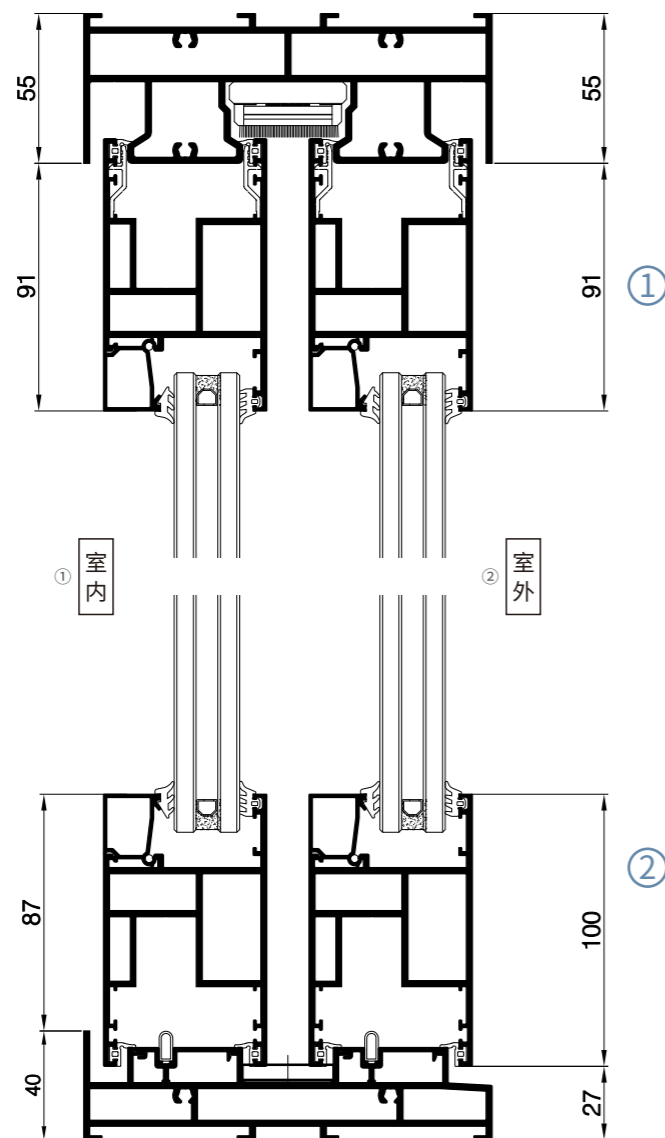
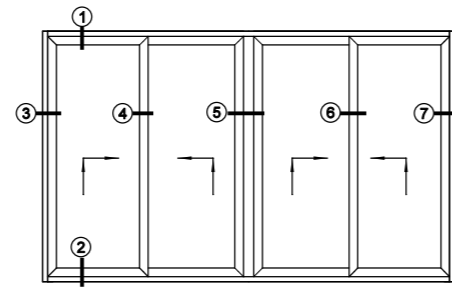
### 坚美系统155系列 提升推拉门 155-LIFT-AND-SLIDE DOOR



### 坚美系统155系列 提升推拉门 155-LIFT-AND-SLIDE DOOR



坚美系统155系列  
提升推拉门  
155-LIFT-AND-SLIDE DOOR



坚美系统155系列  
提升推拉门  
155-LIFT-AND-SLIDE DOOR

