



**AI INTER
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ALU. WINDOWS & DOORS



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WHY ALUMINIUM?

Aluminium windows and doors are quite popular these days. They look good, durable, easy to maintain, and as creative as much you want. These windows are light in weight, perfectly weather resistant, and also increase the energy efficiency of your premise to a great extent. Presently, architects do prefer aluminium for its aesthetics insulation power, color friendliness, and many other handy benefits. Let's read here why aluminium windows are much ahead in the popularity quotient. But before that, let's take a quick look at wooden doors and windows, which were traditionally most popular in use for making windows and doors.

Like most other building components, windows and doors have evolved over the years. Windows are now made not only from wood but also from aluminium, steel, vinyl and fibre glass. Additionally, two materials are often combined in the same window to take advantage of their different properties. However, aluminium is by far the most commonly used window material today. So, let us understand aluminium windows in detail.

Aluminium is the material that is also used presently in glass curtain walls and store-fronts. Apart from strength and durability, it is not affected by moisture and-shrinkage or swelling due to random sun exposure or change in moisture content. The anodized or painted finish on aluminium is virtually permanent. Aluminium windows require almost no maintenance.

The malleability (capable of being shaped) and flexibility of aluminium are perhaps the most important reason for its extensive use as a window material. Because of its malleability, aluminium can be extruded into complex cross sections, which are specially designed to facilitate the structuring of the window. For example, continuous round, hollow intrusions, which are referred to as screw splines are commonly provided in aluminium cross sections to join horizontal and vertical frame members.

The flexibility of aluminium allows the use of snap-on carving, whereby two separate aluminium sections can be joined together without any fasteners. For example, in aluminium windows and curtain walls, glazing stops are simply snapped on (no need for adding screws or any other fastening material). Additionally, two aluminium windows can be effortlessly snap-connected by using mating mullion profiles to provide a larger window with a common mullion without the use of fasteners.



Advantages of Aluminium Windows

- Aluminium window frames are available in anodized and powder coated finishes, which are extremely durable and need no maintenance.
- They are perfectly suited to both traditional and contemporary designed homes as they are more attractive and can add an impressive appearance.
- Aluminium windows are light-in-weight but still strong in resilience. It has extremely long life of around 30 to 50 years or even more if maintained periodically.
- Some aluminium windows can be easily recycled. This makes it one of the best materials to use when it comes to creating an environment-friendly window. Thus, aluminium windows help to reduce your negative impact on the environment and improve overall sustainability. Even as green material aluminium with recycled content is used to earn LEED points.
- Aluminium is not easily corroded. Over years, it may have slight negative impact of corrosion on it.
- Aluminium windows do not attract termites, pests or other insects. So you don't have the obligation of pest controlling.
- Aluminium windows are easy to maintain. It requires anodizing or powder coating after a long period of use.
- They do not shrink or swell and hence are easy to operate during all season.
- Because of higher strength of frame sections, their sizes are small, and hence an aluminium window looks sleek and attractive. It provides more area for transmission of light.
- You do not need to use hardware like tower-bolts, hinges etc., thereby you may save some amount in terms of cost.
- With use of double, triple glazing, with air/ gas gaps and also with use of toughened glass, the window can be made sound-proof, energy efficient and also it may offer the protection of high security. Of course these variants are costly; however such features would be almost impossible or highly expensive to implement in case of wooden windows.
- It is available globally at an almost uniform rate.
- They are mostly made in factory and thus installation time is less, and hence it speeds up construction, and needs less labours/ skilled workers' involvement.

To sum up, aluminium windows are ideal for homeowners who want a low maintenance window option with high-performance quality at an affordable cost. They make surrounding brighter and healthier. Corrosion resistance, flexibility, and natural strength are the reasons aluminium is the preferred metal for making windows with this metal. Modern aluminium windows are a great choice for enhancing kerb appeal or finishing of a contemporary house. It gives your home an excellent smart look. However, it is important to design right to enjoy it plenty of benefits.



MAIN ALUMINIUM WINDOW TYPES



Awning Window(Top-Hung)



Side-Hung Window (inward & outward)



Casement Window



Sliding Window



Tilt and Turn Window



Tilt in Hung



Sash Window



Fixed Panel



Bi-Fold Window



Fold up Window



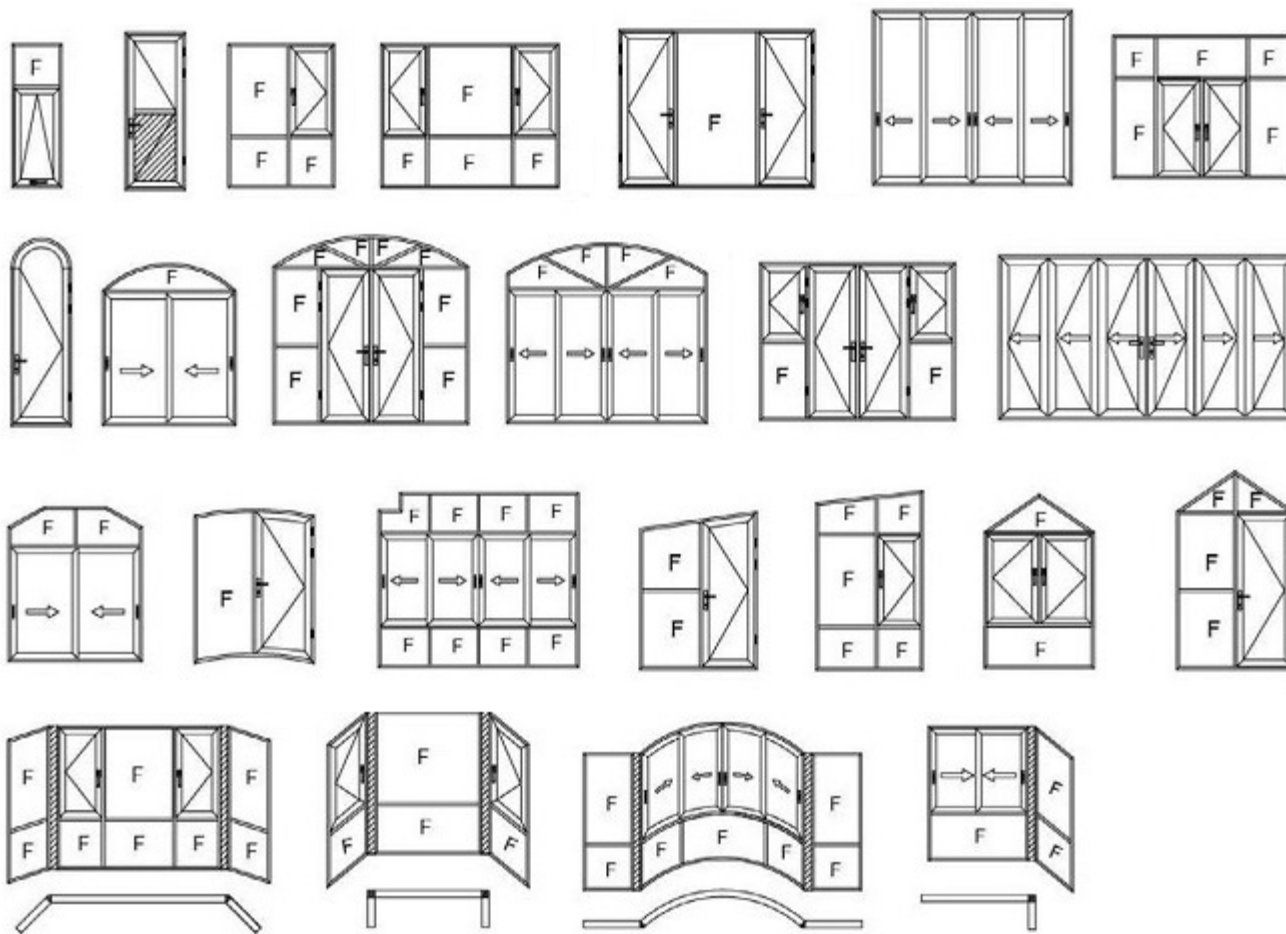
Sky light



Pivot Window



MORE WINDOW TYPES CUSTOMIZATION AVAILABLE



MAIN ALUMINIUM DOOR TYPES



Single swing door



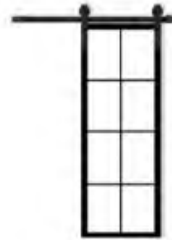
Casement door



Sliding door



Bi-Fold door



Barn door



Pivot door



Sunroom



Sliding stacker door



Fold up Door



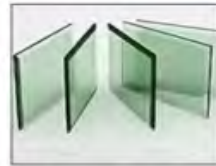
GLASS CONFIGURATIONS



Single Tempered Glass



Insulated Double Glass



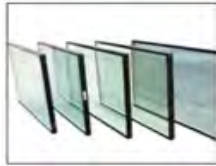
Reflective Glass



Tinted Glass



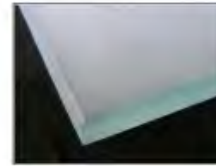
Curved Glass



Low-E Glass



Laminated Glass



Frosted Glass



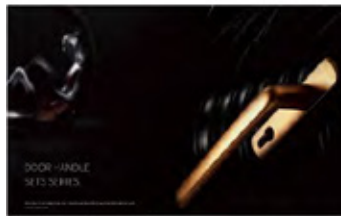
Bullet-Proof Glass



MORU Glass

Note: consult customer service for more glass styles

HARDWARES



ALUMINIUM PROFILE COLOR OPTIONS



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP65T Awning Casement SUPER SERIES



SP65T system is excellent heat insulating function, through the adoption of 24mm thermal insulation aluminum profile, it could keep the U-value less than 1.6 W/m.K. It could not only satisfy users' strict requirement on physical function, but also realize various segmentations of windows and doors. It is popular on North American Area. Flagship product in Superhouse system

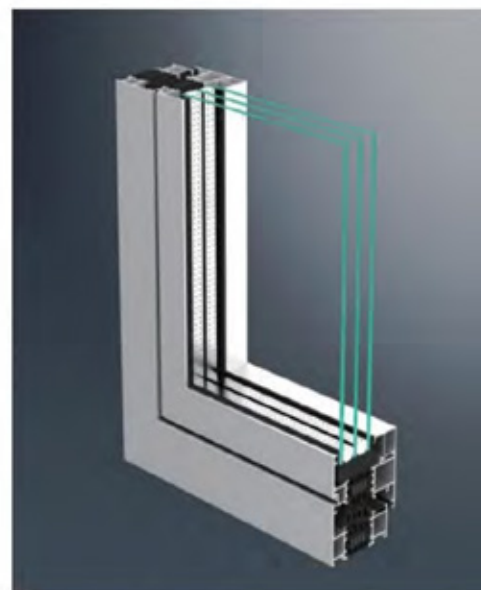
TECHNICAL DATA

Visible width (Outside)	Frame/Sash	30mm
Profile Depth	Frame/Sash	65mm
Depth of glass groove		27mm
Glass Thickness		48mm

PERFORMANCE

Thermal Insulation	U≤1.6 W/m ² K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	900 pa
Security Level	

SP80T Awning Casement STAR SERIES



P80 system is excellent heat insulating function, through the adoption of 39mm thermal insulation aluminum profile, it could keep the U-value less than 1.1w/m.k. It could not only satisfy users' strict requirement on physical function, but also is the flagship product in superhouse system. Comply with AAMA CSA WDMA 101/I.S.2/A440-11.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	30mm
Profile Depth	Frame/Sash	79mm
Depth of glass groove		27mm
Glass Thickness		61mm

PERFORMANCE

Thermal Insulation	U≤1.4 W/m ² K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	900 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP80T HINGE DOOR STAR SERIES



P80 system is excellent heat insulating function, which belong to our star system with very high quality and with kick plate. It could realized inwards opening, outwards opening, low threshold and high threshold. Also there are different kinds of hardware for choose and it could meet C and U groove with multi point locking system.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	50mm
Profile Depth	Frame/Sash	80mm
Depth of glass groove		27mm
Glass Thickness		48mm

PERFORMANCE

Thermal Insulation	Us1.4 W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP86

BULLET PROOF
SPECIAL LINE



SP86 bullet proof system meet UL752 standard and Florida USA product building approval. The special design with reinforce steel plate and bullet proof glass. Which is popular use for hurricane area and public like embassy, army area and bank.

SP100

HINGE DOOR
COMMERCIAL



SP100 hinge door is classic model. It can be high threshold or low threshold or without threshold. Stainless steel handle for option. Normally use for commercial area such as shop entrance door. It also can be escape door.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	Refer to detail drawing
Profile Depth	Frame/Sash	Refer to detail drawing
Depth of glass groove		
Glass Thickness		

PERFORMANCE

Thermal Insulation	Us1.1 W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	900 pa
Security Level	

TECHNICAL DATA

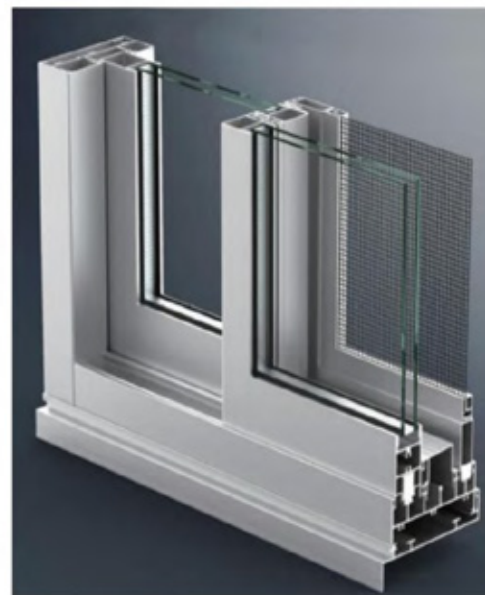
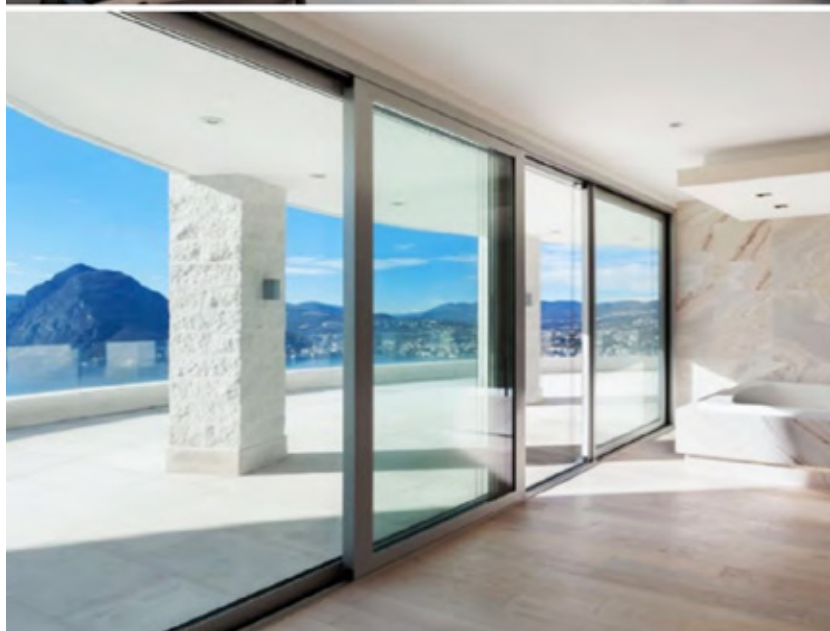
Visible width (Outside)	Frame/Sash	Refer to detail drawing
Profile Depth	Frame/Sash	Refer to detail drawing
Depth of glass groove		
Glass Thickness		

PERFORMANCE

Thermal Insulation	Us3.4 W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP100 SLIDING DOOR COMMERCIAL

SP100 Sliding door system, it can be equipped with triple glass to get better sound insulation and energy-saving. This system is equipped with heavy duty and it can be load max. 300kg weight. It could create smoother and more reliable operation experience for users during the repeated opening and closing. Available with stainless steel mesh and could meet 600pa water penetration. Popular used in Australia market.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	50mm
Profile Depth	Frame/Sash	130mm
Depth of glass groove		16mm
Glass Thickness		12-30mm

PERFORMANCE

Thermal Insulation	Us3.8 W/m2K
Acoustic Performance	≤42dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP100 AWNING WINDOW COMMERCIAL

SP100 Chain winder window could be equipped with double or triple glass to realize better sound insulation and energy-saving. This system is with Australia local 125mm limited opening restrictor. Available with stainless steel mesh or flyscreen. And with Australia standard and with 900pa water penetration and popular used in Australia market.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	50mm
Profile Depth	Frame/Sash	100mm
Depth of glass groove		20mm
Glass Thickness		12-31mm

PERFORMANCE

Thermal Insulation	$U \leq 3.4 \text{ W/m}^2\text{K}$
Acoustic Performance	$\leq 45\text{dB}$
Air Tightness	0.4
Wind Load Resistance	$\geq 0.5\text{Kpa}$
Water Penetration	900 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP150 STACKER DOOR COMMERCIAL

SP150 stacker door system, it could be with triple glass to realize better sound insulation and energy-saving. This system is with heavy duty. It could create smoother and more reliable operation experience for users during the repeated opening and closing. Available with stainless steel mesh and could meet 600 pa water penetration. Popular used in Australia Market.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	50mm
Profile Depth	Frame/Sash	150mm
Depth of glass groove		16mm
Glass Thickness		12-31mm

PERFORMANCE

Thermal Insulation	U<3.4 W/m ² K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP115 BI-FOLDING DOOR COMMERCIAL

SP115 Bi-folding door could meet design of 220,330,431,550,541,633, 651,743 and so on. Also could with retractor flyscreen. It can be make 3000mm high with heavy duty hinge and with stright sash to improve aesthetics sash. Also it is the flagship product in Superhouse product system.



TECHNICAL DATA

Visible width (Outside)	Frame/Sash	30mm
Profile Depth	Frame/Sash	115mm
Depth of glass groove		22mm
Glass Thickness		21-42mm

PERFORMANCE

Thermal Insulation	Us3.4 W/m2K
Acoustic Performance	545dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP130 GLASS LOUVER COMMERCIAL

SP130 louver is popular for Australia market and which could be with the flyscreen and also Stainless steel mesh. Available for 6mm glass and 6.38mm laminated glass. It is the flagship product in Superhosue system. And which pass 150 pa water penetration for the AS2047 Standard.



TECHNICAL DATA

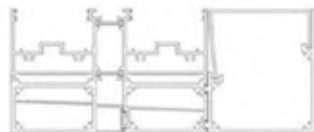
Visible width (Outside)	Frame/Sash	25mm
Profile Depth	Frame/Sash	130mm
Depth of glass groove		16mm
Glass Thickness		6mm

PERFORMANCE

Thermal Insulation	Us4.4 W/m2K
Acoustic Performance	≤35dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	150 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP146 SLIM SLIDING DOOR SPECIAL LINE



SP146 series with 2cm thickness simplification profile and with a large view. Abandon the traditional big and heavy sliding door frame, the minimalist push and pull is more close to the natural environment nearly. Higher glass to aluminum frame ratio, heat insulation performance system effectively improved. Hidden under the rail- with roller bearing, single panel load up to 500kgs. It can be make 3000mm by 3000mm per panel.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	146mm
Profile Depth	Frame/Sash	Refer to detail drawing
Depth of glass groove		
Glass Thickness		

PERFORMANCE

Thermal Insulation	Us2.4 W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	500 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP75T

BI-FOLDING DOOR STAR SERIES



SP75T bifold doors, or folding sliding doors if you prefer, are a modern and innovative design statement that can transform an ordinary room and make it a feature of the house. It can be low threshold and high threshold. Available in a number of configurations using between 2 and 8 door leaves.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	36mm
Profile Depth	Frame/Sash	75mm
Depth of glass groove		29mm
Glass Thickness		51mm

PERFORMANCE

Thermal Insulation	Us2.4 W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	

SP153T

Lift&Sliding door STAR SERIES



SP153T system is a sliding and lift & sliding door with excellent thermal insulation. The perfect design maximizes glass area and enhances comfort, which system has a small threshold scheme to facilitate access to building. The lift and sliding door can accommodate large size glass door and bear up to 400kg which meets the requirement of anti theft performance.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	64mm
Profile Depth	Frame/Sash	153mm
Depth of glass groove		26mm
Glass Thickness		53mm

PERFORMANCE

Thermal Insulation	Us1.6W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR w./FLORIDA IMPACT RESISTANCE



SP239T Lift&Sliding door STAR SERIES



SP239T system is a sliding and lift&sliding door with excellent thermal insulation. The perfect design maximizes glass area and enhances comfort, which system has a small threshold scheme to facilitate access to building. The lift and sliding door can accommodate large size glass door and bear up to 400kg which meets the requirement of anti theft performance.

TECHNICAL DATA

Visible width (Outside)	Frame/Sash	64mm
Profile Depth	Frame/Sash	239mm
Depth of glass groove		26mm
Glass Thickness		53mm

PERFORMANCE

Thermal Insulation	Us1.6W/m2K
Acoustic Performance	≤45dB
Air Tightness	0.4
Wind Load Resistance	≥0.5Kpa
Water Penetration	600 pa
Security Level	



COMMERCIAL SYSTEM WINDOW & DOOR



60# Insulation System window



65# System inward casement window



65# System outward casement window



65# Casement door



100# System Casement window



108# System Casement window



95# Casement window



110# System Casement window



120# System Casement window



68# SERIES SLIDING DOOR



100# SERIES SLIDING DOOR



68# SERIES BI-FOLD DOOR



75# SERIES BI-FOLD DOOR



ATL# SERIES SASH WINDOW



ATL80P

Double vertical sliding window



ATL80

High-rise single and double lift series
(inward vertical opening is available)



ATL80P

Single vertical sliding window



ATL102

High-rise and super high-rise
single lift series (with screens)



ATL102

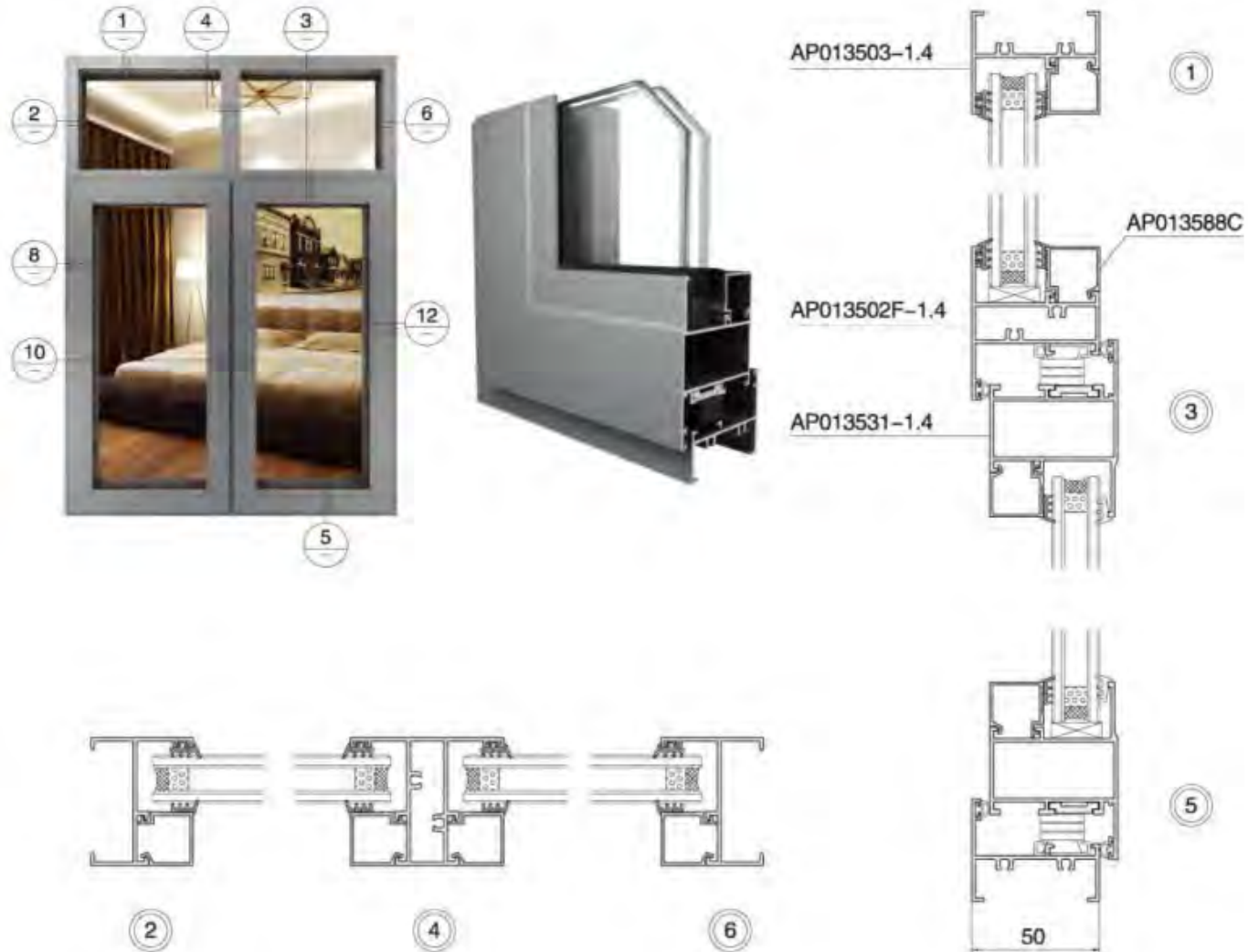
High-rise and super high-rise
single lift series (with corners)



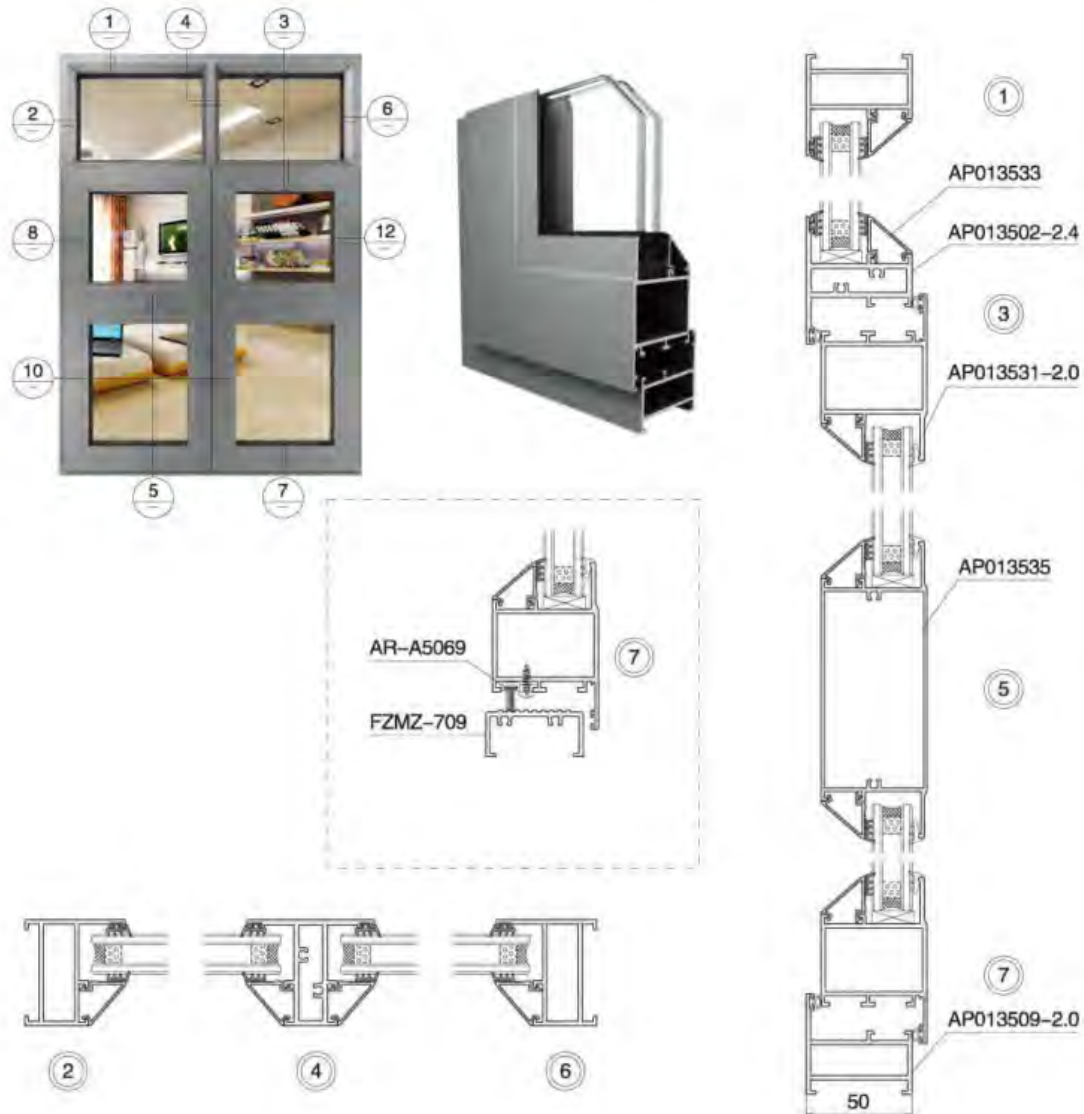
SUNROOM SYSTEM



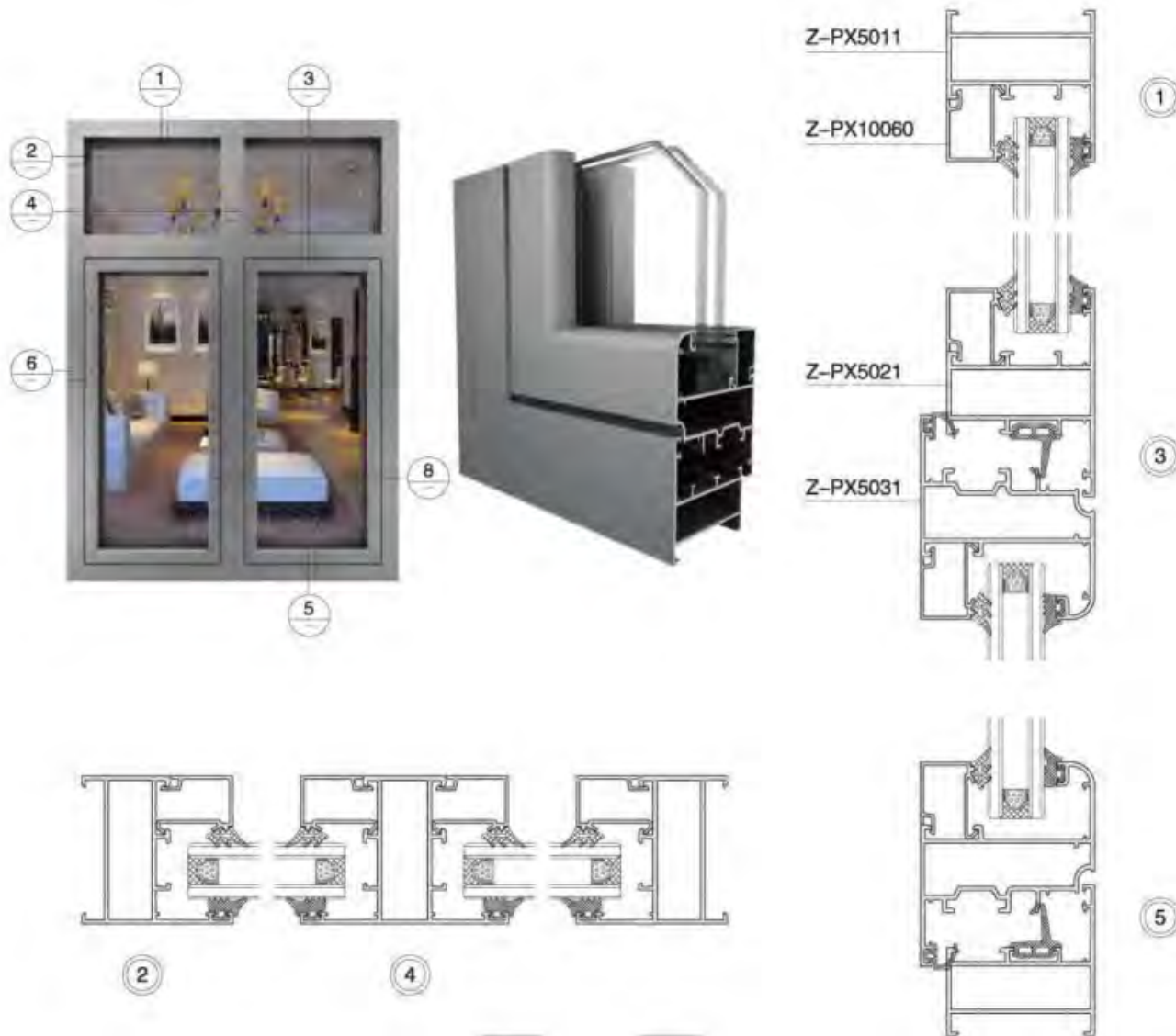
AP50B Series Outward Casement Window



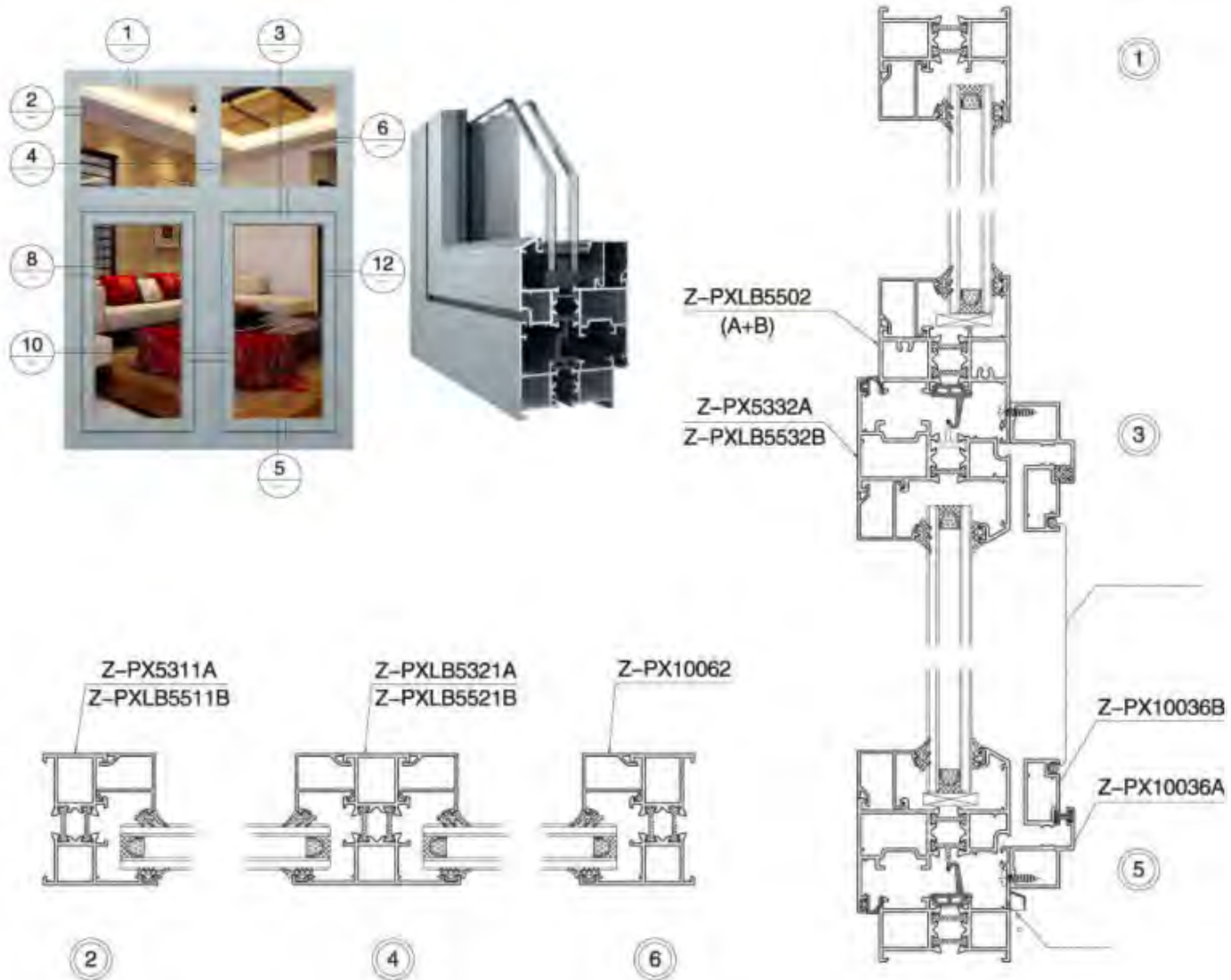
AP50B Series Outward Casement Door



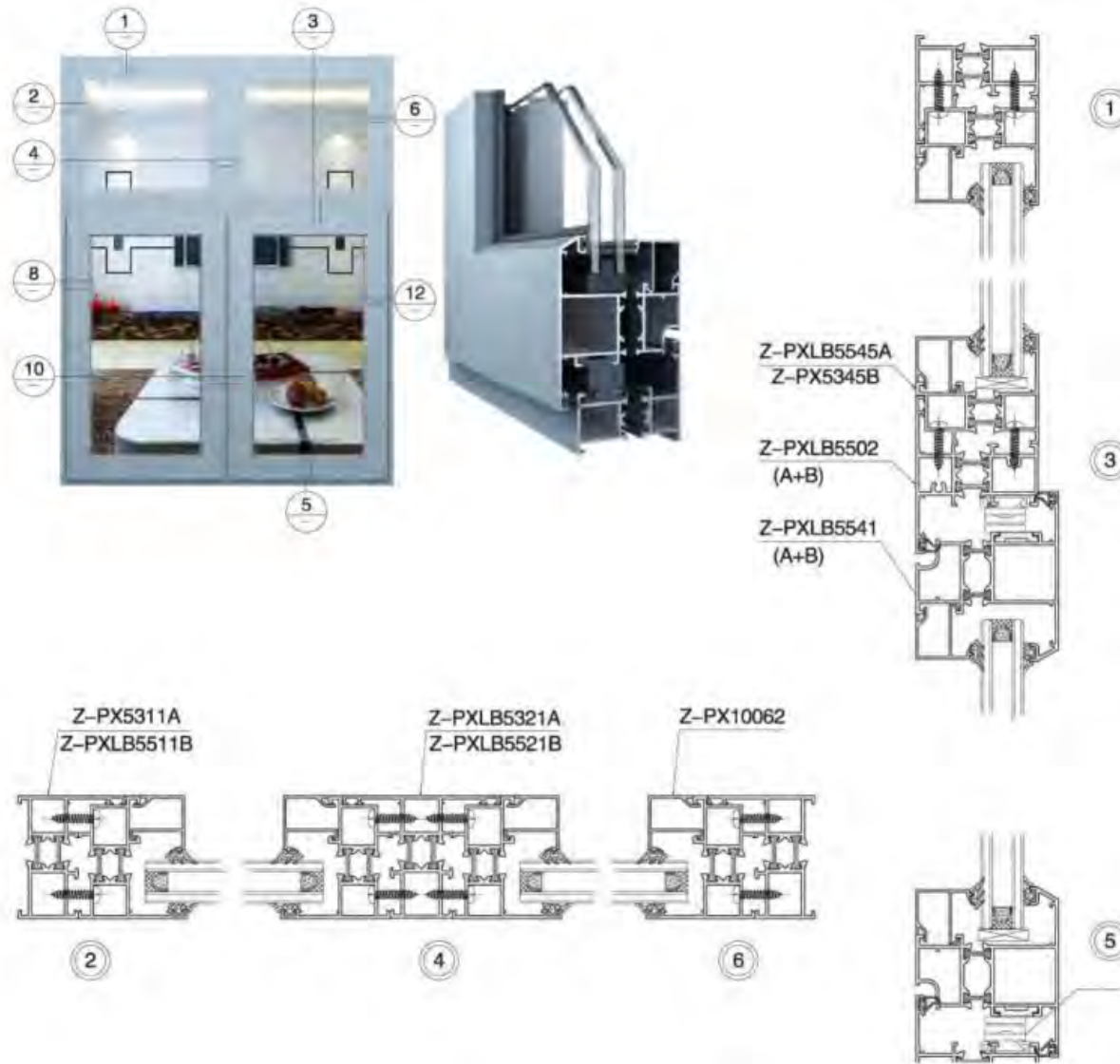
AP50H Series Inward Casement Window



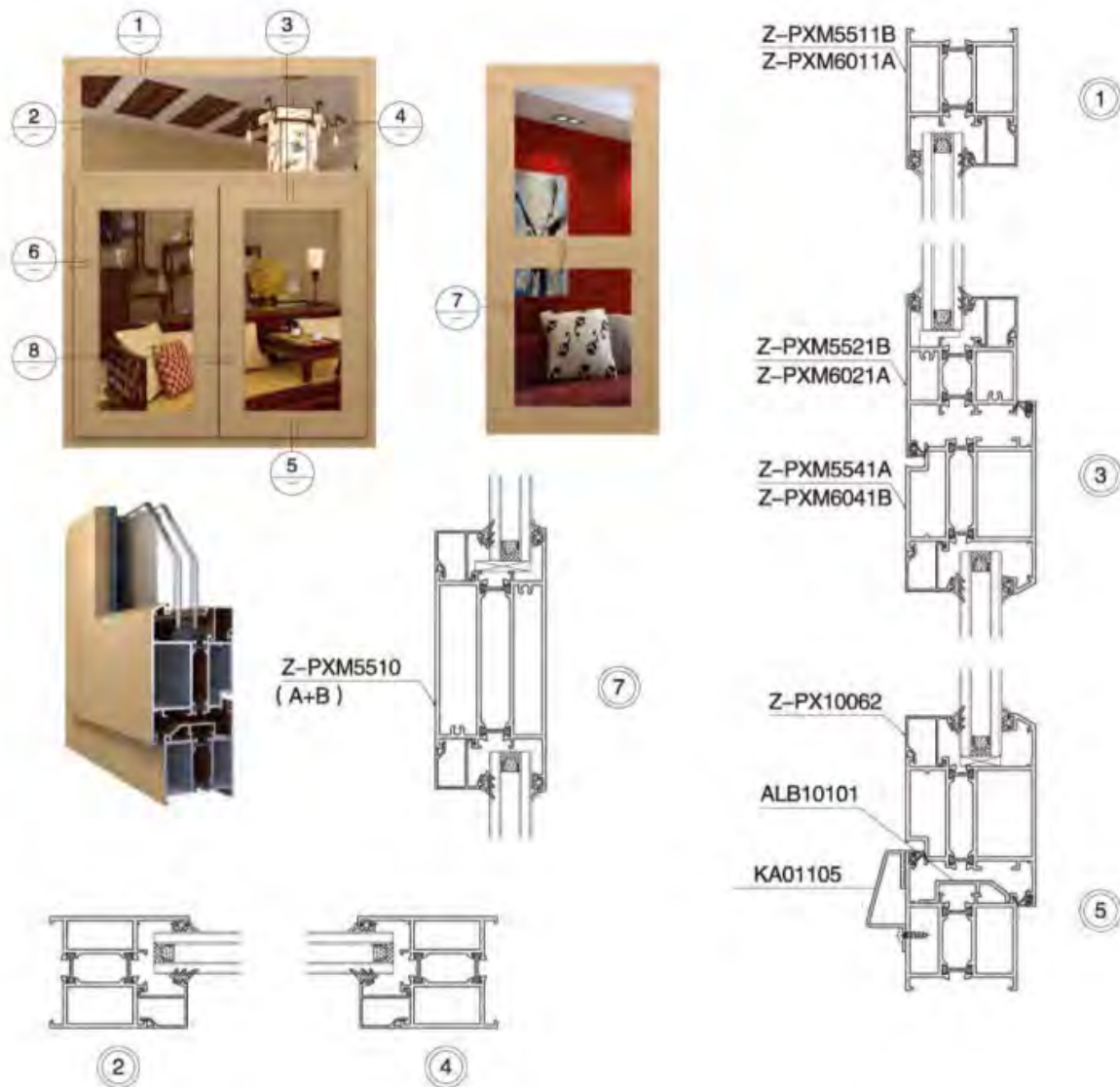
APG55 Series Inward Casement Window



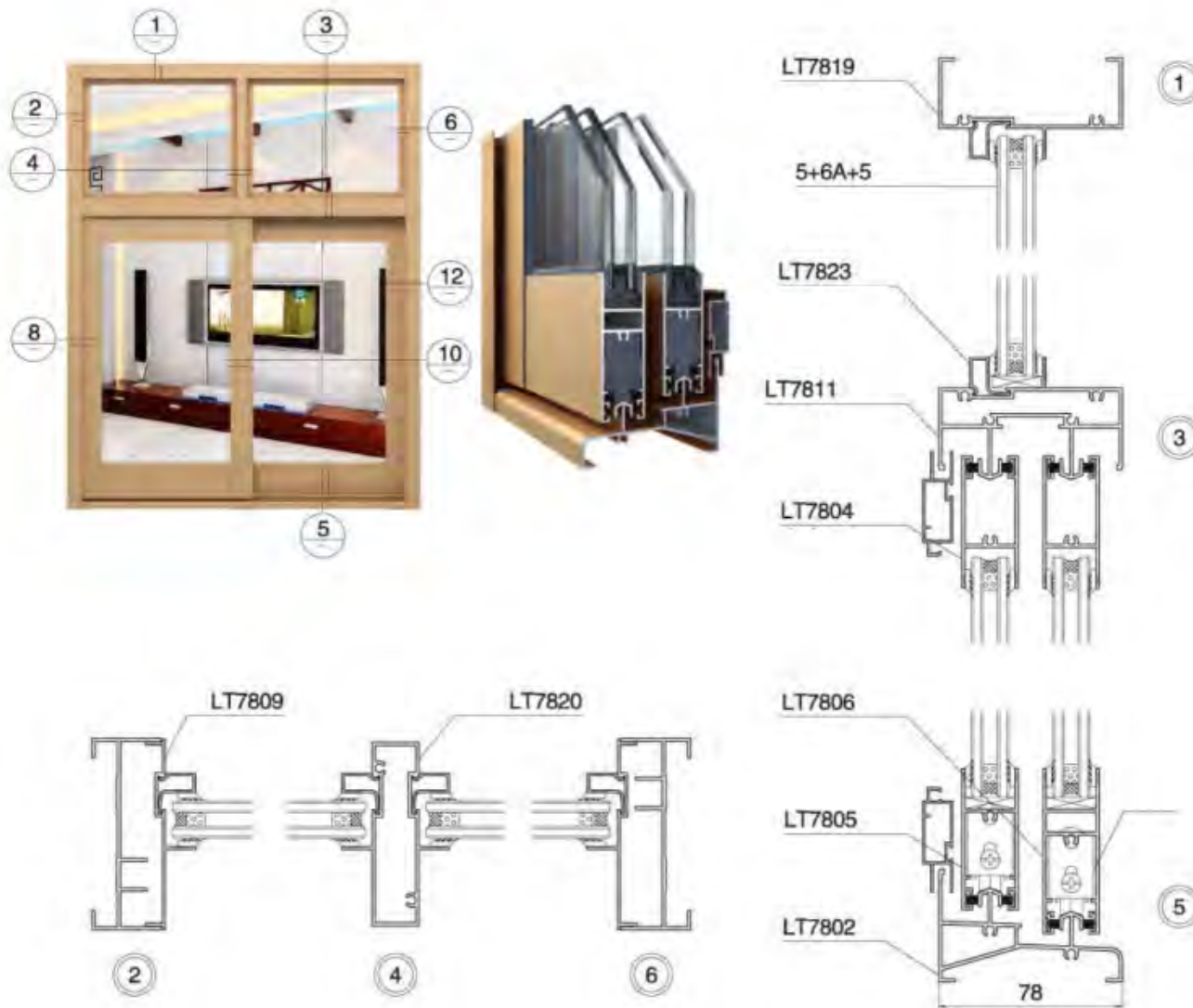
APG55 Series Outward Casement Window



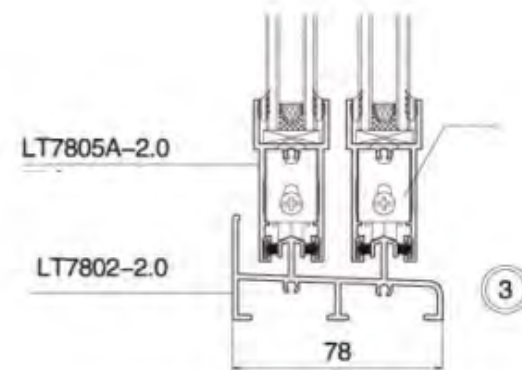
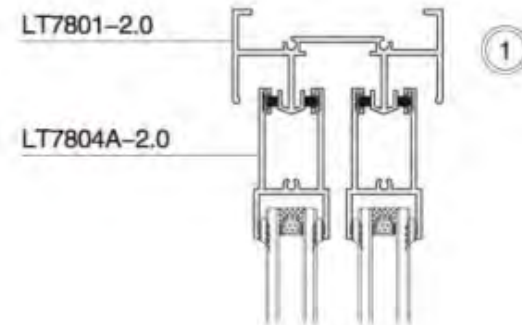
APG55 Series Outward Casement Door



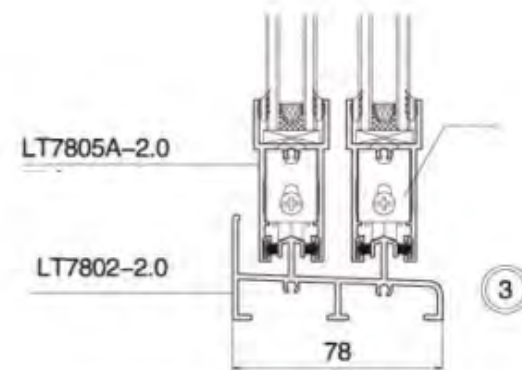
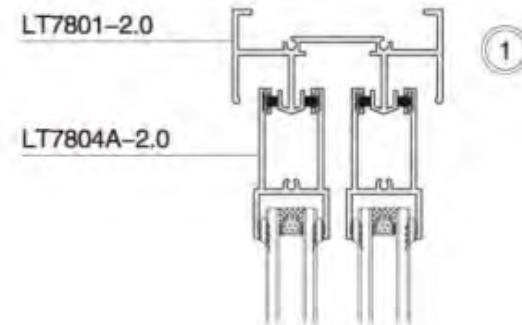
ATB80# Series Sliding Window



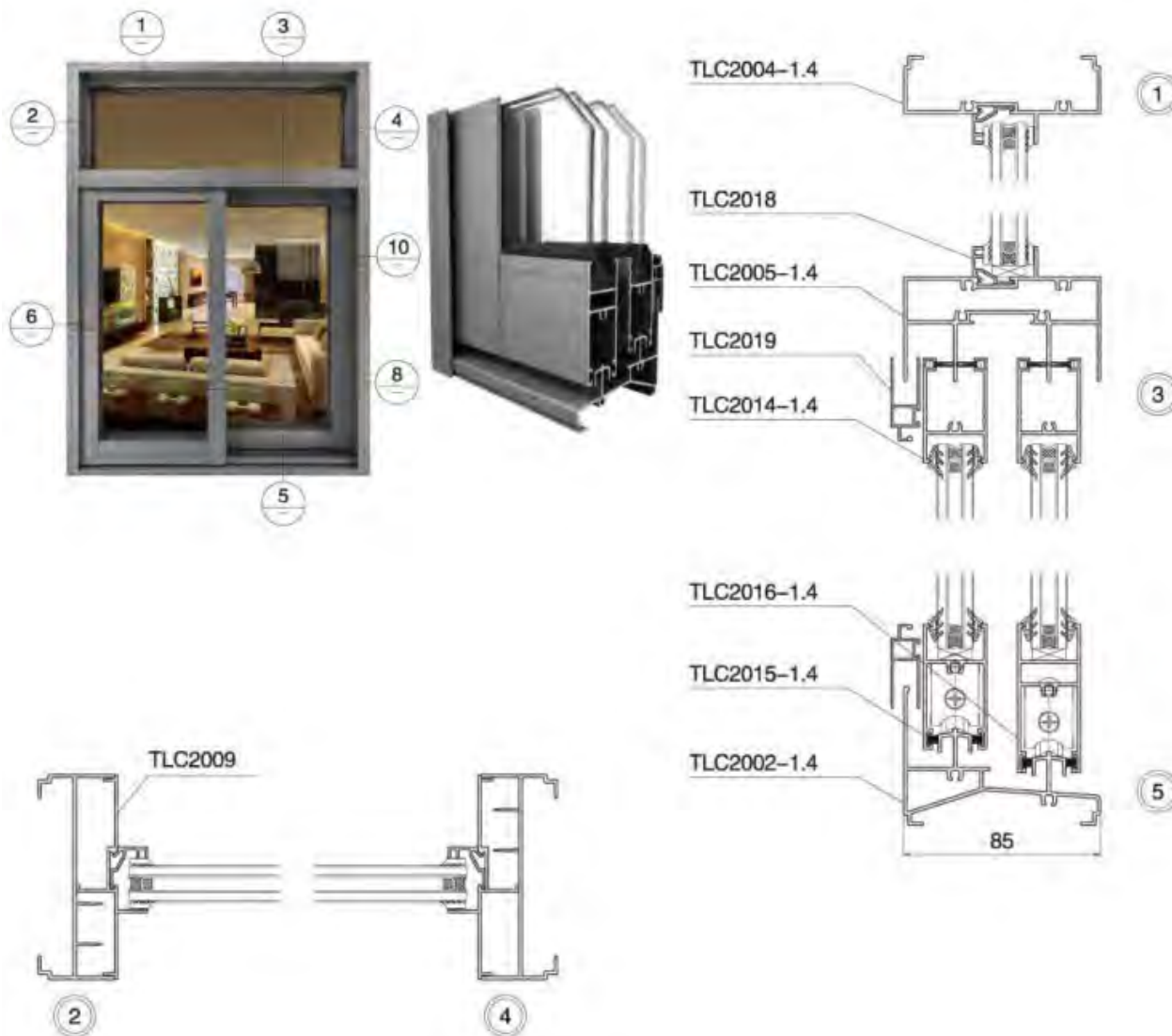
ATB80# Series Sliding Door



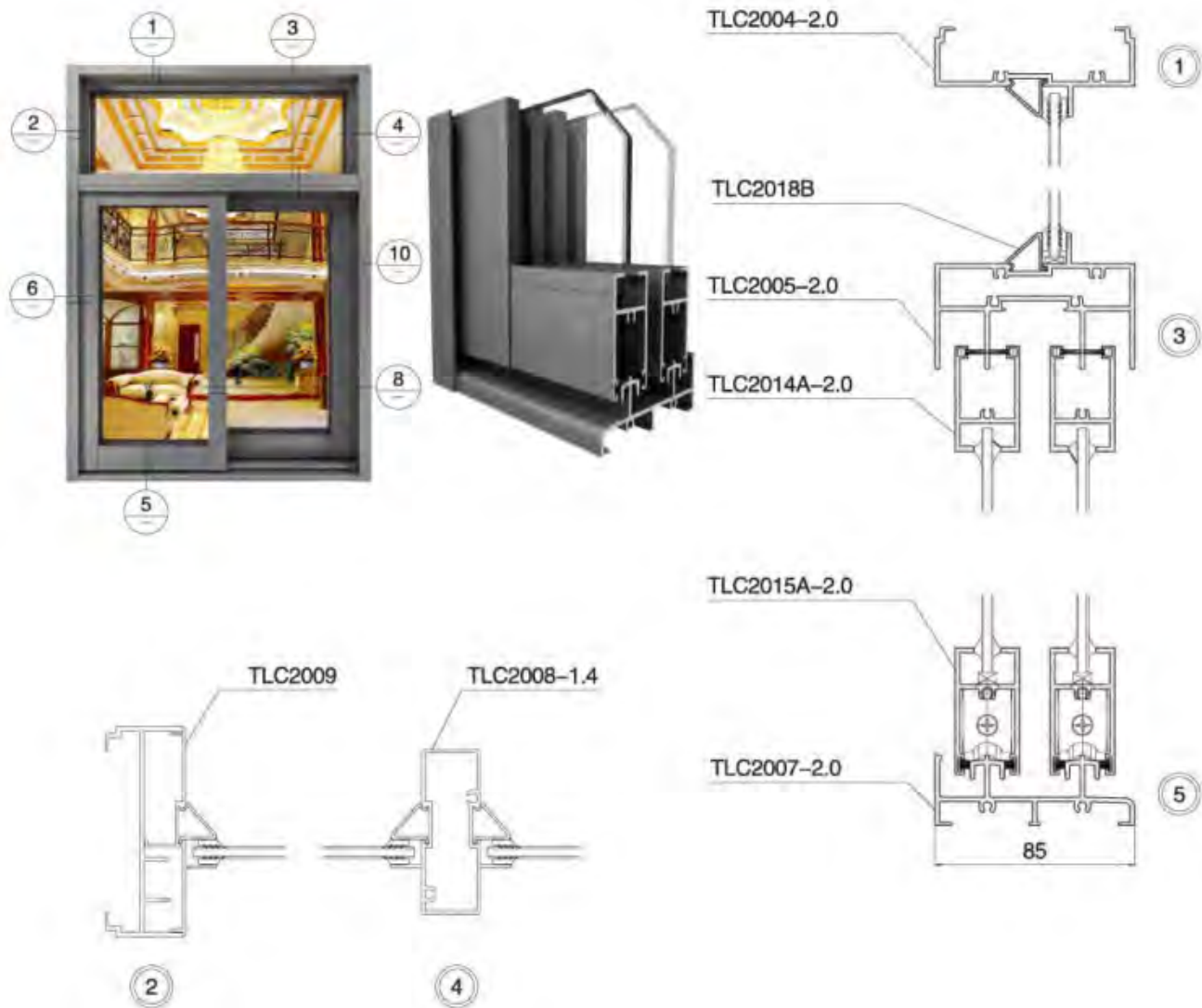
ATB80# Series Sliding Door



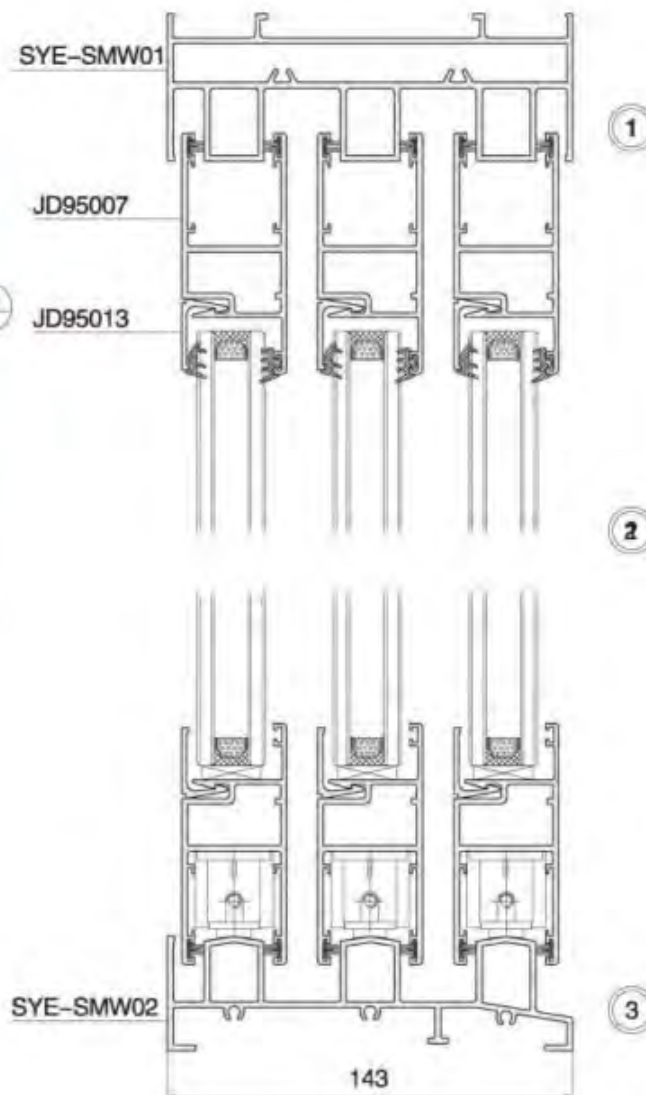
AT88# Series Sliding Window



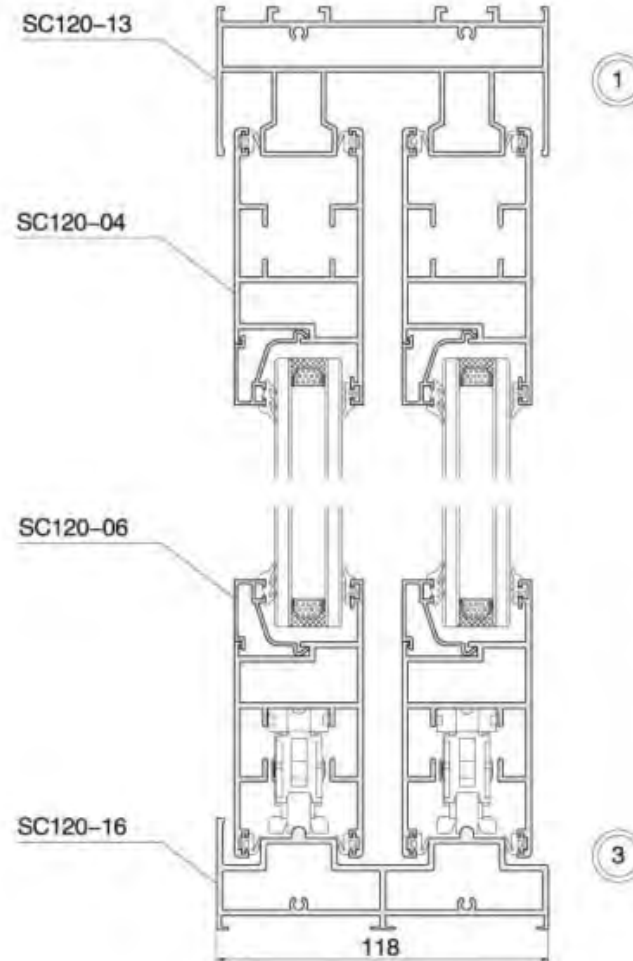
AT88# Series Sliding Door



AT95# Series 3 Tracks Sliding Door



AT120# Series Sliding Door



AT122# Series Sliding Door

