

**YKK
ap**®

LOW - RISE
600 Pa



NEXSTA-L
TM

PT YKK AP INDONESIA
ENGLISH VERSION

FEB 2024

FOR PRO USER

WWW.YKKAP.CO.ID



JAPAN QUALITY

-MADE IN INDONESIA-

IN INDONESIA'S ALUMINUM WINDOW INDUSTRY, ONLY YKK AP INDONESIA HAS AN INTEGRATED PRODUCTION SYSTEM TO PROCESS FROM RAW MATERIALS TO PERFORMANCE TESTING AND INSPECTION. WE CONFIDENTLY RECOMMEND OUR PRODUCTS.

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CONCEPT



NEXSTA - New Generation of Luxury - is the latest innovation developed by YKK AP Indonesia by promoting tremendous quality performance and comfort.

It is exclusively developed based on consumers' high expectations.

By considering every aspect such as the environment, weather, climate, lifestyle, culture, and current situation, it was designed as high quality & high-performance product that has been strictly tested in terms of performance, safety.



Why NEXSTA?

- It supports a wide range of applications.
- Safety and quality are secured by the manufacturer, YKK AP Indonesia.
- Excellent functionality and durability.
- Parts are also produced by YKK AP.

CONCEPT

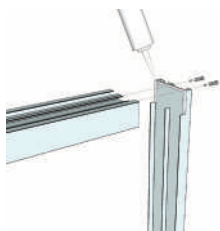


HIGH WATERPROOFNESS ACHIEVED BY YKK AP

To ensure there is no water leakage with windows is very important not only for your comfortable life but also for your value of the property. YKK AP make effort to achieve high waterproofness.

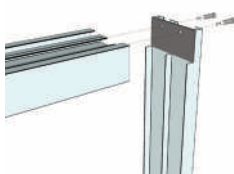
W Proof Joint

General metal joint (Bar window)



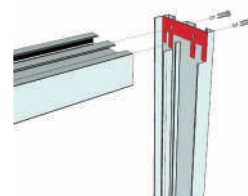
Sealant application after jointing

Normal metal joint (Other company FG)



Using a rubber Sealer pad
*Only Solid rubber

YKK AP performance products



Using a unique Sealer pad



Junction factor Water leakage ratio:

More than 10%
(API research)

Junction factor Water leakage ratio:


Less than 3%
(API research)

Junction factor Water leakage ratio:

Less than 1%
(API research)

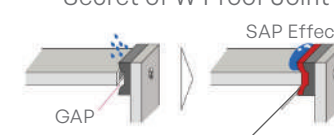


*Product label



W PROOF JOINT
Corner joint with high waterproof performance

Secret of W Proof Joint



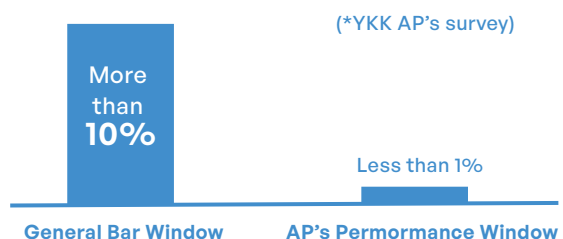
SAP Effect

GAP

*Logo "W Proof Joint" expresses high Waterproofness by SAP technology. Trademark registration has been applied.

*SAP: Super Absorbent polymer using Japanese diaper technology. Sealer pad with SAP material will swell and securely fill the gap to achieve optimum water stopping performance.

Water Leakage Rate (Caused by Window Factors)



- The water leakage rate of the bar window is 10% or more.
- The ratio is greatly reduced for bar windows with standardized waterproof parts.
- The risk of water leakage due to window factors is almost 0 for products processed by manufacturers.

Water Tightness Test at In-house Testing Center

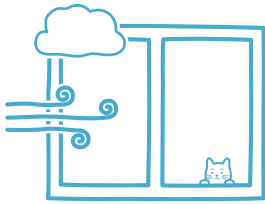
We test water tightness of our products in our own Testing Center, and confirm the performance before product delivery. In Indonesia, this test is possible only in YKK AP.



Test for Apartments / High Rise
200 Pa (Wind Speed = 18.1m/s) × 15 minutes

Test for Landed Houses / Low Rise
100 Pa (Wind Speed = 12.8m/s) × 15 minutes

BASIC PERFORMANCE



Structural (Wind Load)

Wind Pressure Resistance 600Pa
Deflection L/100

*Wide View Sliding SD/SE : 500 Pa
Deflection L/125

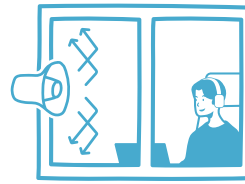
*Ventilation Door 1000 Pa
Deflection L/125



Water Tightness

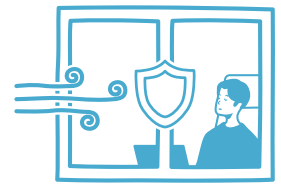
Isobaric System Adaptable and
Water tightness
150 Pa (Standard Sliding)

*Please check information for
other window types,.



Sound Insulation

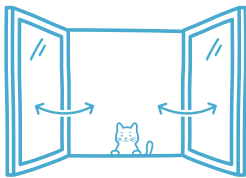
Sound proof and promote energy
saving
Grade T-1 (-25dB) and T-2(-30
dB)(JIS), Rw 24-30 (ISO)



Air Infiltration

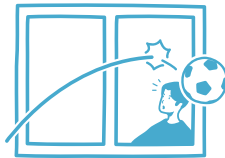
Dust-free and Airtight system
Grade A-4 (JIS)

* Ventilation Door
Grade A-2 (JIS)



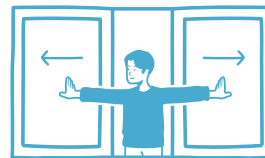
Open-Close Test

Surpass the 30,000 cycles of open
close test



Impact Resistance

Resistant to impact loads up to 30
kg Sand Bag and 170mm Drop
height



Opening Force

Smooth to Operate
Easy for Children



Double Glazing

Double glass to promote energy
saving
max 6 + A6 +6 mm
Glass Groove
18 & 22 mm : Sliding
24 mm : Fixes, Casement, etc
26 mm : Folding Door Terrace
Type, and others



House

10 m (3 Stories)

Indonesia: SNI 03-0573

House: 503 Pa (10m)

Condominium: 1211 Pa (160m)

Environmental condition level 2 $v=30$ m/s
Category III: The state there are many obstacles on the
ground surface: small town, large suburban areas.

Malaysia: MS 1553

House: 616 Pa (10m)

Condominium: 1308 Pa (150m)

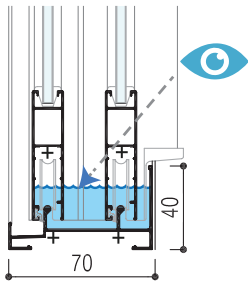
Basic wind speed $V_s=33.5$ m/s (Kuala Lumpur)
Category 3: Terrain with numerous closely spaced
obstructions 3.0 m to 5.0 m high such as area of subur-
ban housing.

Setting Basic Wind Load for NEXTA is at 1600Pa based on the criteria of 4 countries.
Positive pressure at building facade with many windows.

BASIC PERFORMANCE

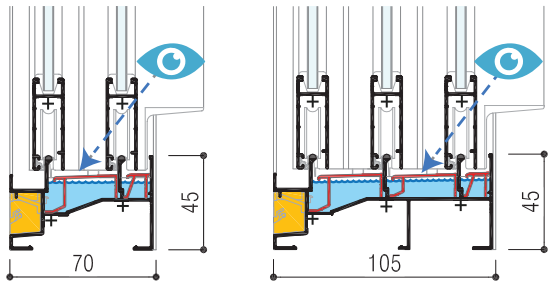
WATER TIGHTNESS

Common Sliding



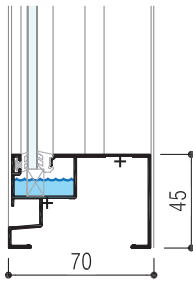
During the rain, water will be accumulated in Bottom Sill, and the water could be seen from inside because of the adopted water head system

NEXSTA Sliding



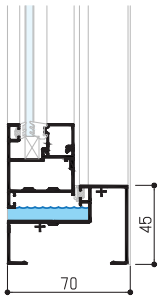
Bottom Sill with cover that makes the water could not be seen up to 200 Pa level.

NEXSTA Fix



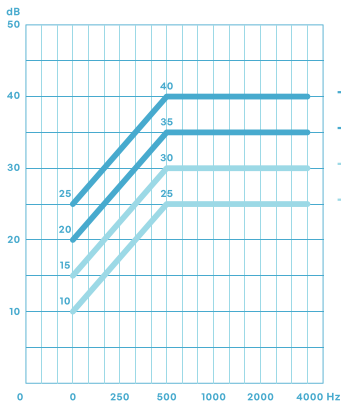
Adopting Isobaric System as an improved system to substitute the use of drain valve.

NEXSTA Top Hung & Casement



Adopting Isobaric System.

SOUND INSULATION



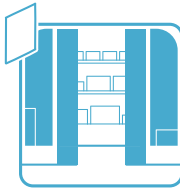
Suburb at Midnight



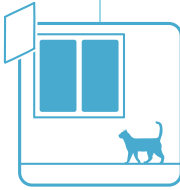
Quiet Park



Quiet Office



Shopping Mall



Street



Main Road

30dB

40dB

50dB

55dB

60dB

70dB

75dB

80dB

85dB

90dB

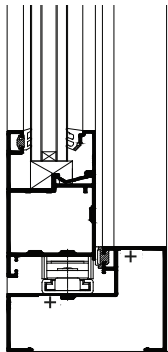
GREEN BUILDING CONCEPT

Modern living that adopts pro green manner means practical, sensible and enable to obtain great saving on energy. Thus energy consumption shall be moderately minimized by preserve natural lighting and thermal reduction that would promote healthy environment.

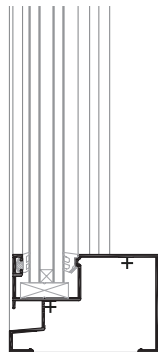


DOUBLE GLAZING

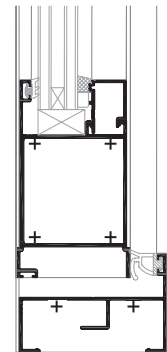
Casement, Top Hung and Door
Glass Groove : 24 mm



Fix
Glass Groove : 24 mm

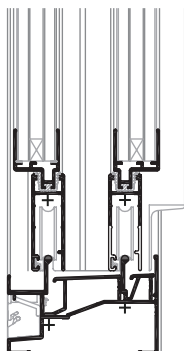


LS Type
Casement, Top Hung and Door
Glass Groove : 26 mm

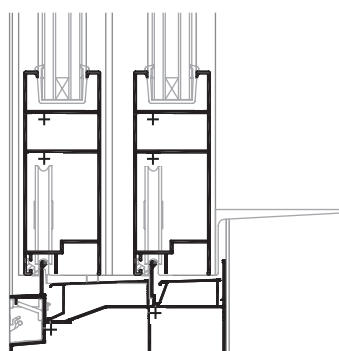


(Inside) Gasket
(Outside) Sealant

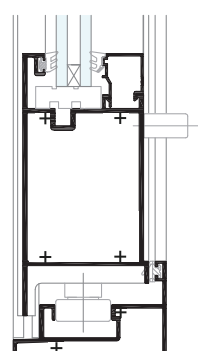
Sliding
Glass Groove : 18 mm



Wide View Sliding
Glass Groove : 22 mm



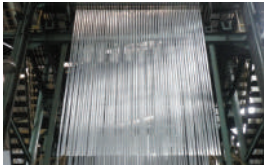
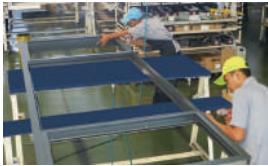






Folding Door Terrace Type
Glass Groove : 26 mm








INTEGRATED MANUFACTURING

YKK AP Indonesia is the only company in Indonesia that has all the functions to make windows.

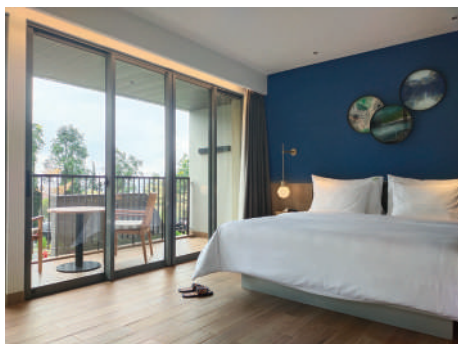
R&D Center	Testing Center	Anodizing/Coating	Fabrication
 <ul style="list-style-type: none"> • Climate observation with BMKG • Collaboratively study with PUPR, ITB, and Japanese Univ. 	 <ul style="list-style-type: none"> • The only facility in Indonesia • All Products are tested here (Performance, Durability, Safety etc.) 	 <ul style="list-style-type: none"> • The only factory in Indonesia that can produce Anodized Composite Coatings (Anodize Plus) 	 <ul style="list-style-type: none"> • Accurate processing and parts attachment based on Japanese technology and machinery
Product Development	Alloy Casting	Extrusion	Field Technical Service
 <ul style="list-style-type: none"> • PD focus on Indonesia based on the research 	 <ul style="list-style-type: none"> • Casting mainly from domestic raw materials 	 <ul style="list-style-type: none"> • High Quality by Japan made extruder 	 <ul style="list-style-type: none"> • FTS(Site inspection, DIS training, etc.) by Experienced staff

INTEGRATED MANUFACTURING

STANDARD COLORS

		Powder Coating re-paint OK	Anodize + resistant to rain and UV
	White/Ivory	TW01	
		TW02	
	Light Gray /Champagne		YS1N (Matte)
			YH1N (Matte)
	Deep Gray	TB80	
	Brown	TB20	YB1C (Glossy)
			YB1N (Matte)
	Black	TK10	YK1N (Matte)

GRAY



BLACK



WHITE

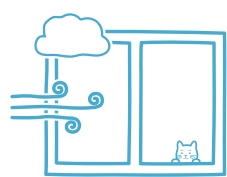


BROWN



CHAMPAGNE

STANDARD SLIDING



Structural (Wind Load)

600 Pa
Deflection
L/100



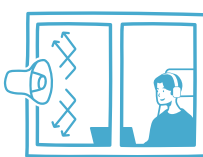
Water Tightness

150 pa



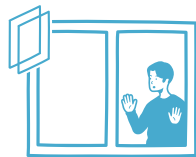
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)



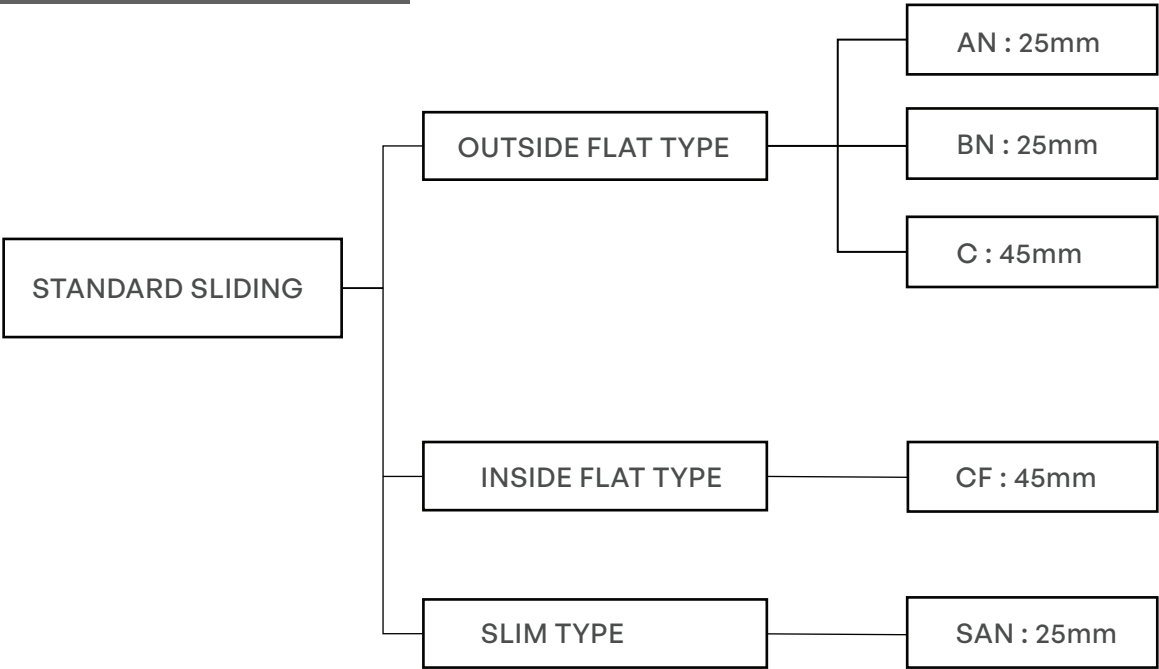
Double Glazing



* High Sound Insulation Type

STANDARD SLIDING

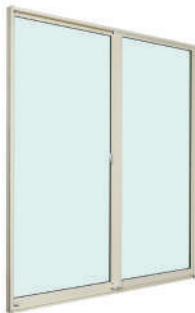
PRODUCT DIAGRAM



H	Depth 70
3.0m 2.0m	
2.0m	

A : Small window B : Small window
 C : Standard Terrace Window D : Large Terrace Window
 Corresponding height changes depending on the wind pressure

VARIATION OF LEAVES



Sliding 2 Leaves



Sliding 3 Leaves



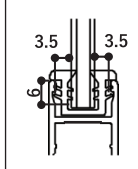
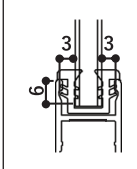
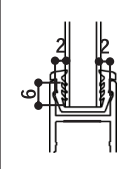
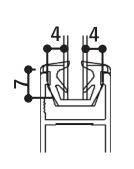
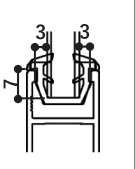
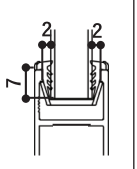
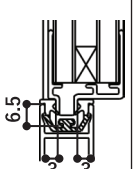
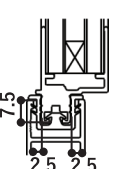
Sliding 4 Leaves



Sliding 6 Leaves

STANDARD SLIDING

GLASS THICKNESS MATRIX & GASKET MATRIX

Glass & Gasket Type									
									
Glass Groove		12			14			18	
Glass Thickness		5	6	8	6	8	10	6+A6+6	
Protruding Inside	AN-Type	●	●	●				●	
	BN-Type	●	●	●					
	C-Type				●	●	●		●
Slim	SAN-Type	●	●	●					
Inside Flat	CF-Type				●	●	●		
Gasket Number		9K-20864		9K-20675	9K-25042	9K-2427	9K-27008	3K-24201	2K-29430

● Available








STANDARD SLIDING

INSECT SCREEN MATRIX

		Insect Screen Type							
Window Type		2 leaves	3 leaves	4 leaves	6 leaves	2 leaves	3 leaves	4 leaves	6 leaves
Screen Type		Outside				Inside (with rail attachment)			
Protruding Inside	AN-Type	●	●	●	●				
	BN-Type	●	●	●	●				
	C-Type	●	●	●	●				
Slim	SAN-Type								
Inside Flat	CF-Type					●	●	●	●

● Available

PARTS MATRIX

				Standard				Optional									
																	
Item				Crescent Lock		Pull Handle	Hook Lock Thumb Latch	Crescent Lock				Hook Lock with Key	Universal Handle				
				L=60	L=80			L=60	L=80	With Key	L=110						
Protruding Inside	AN-Type			●						●	●	●					
	BN-Type			●						●	●	●					
	C-Type	Standard								●		●	●				
High Strength			●	△		●		●		●	●	●	△	2,3 Leaves			
Slim	SAN-Type			●	●					●	●	●					
Inside Flat	CF-Type	Standard			●					●		●	●				
		High Strength			●					●		●	●				
Color				DG, YW		DG, YW		YK, YW		DG, YW		DG, YW		DG, YW		DG	
Parts Number				5K-11484		5K-11485		5K-11486		2K-36775		9K-11361		9K-11362		5K-11484	
				5K-11485		5K-11486		5K-11487		9K-11361		9K-11362		5K-11484		5K-11485	

● Available

△ Available, paired with crescent lock

DG=Black, YW=White, YK=Black

STANDARD SLIDING

FEATURES

Safety

• Safety Cap

Inside upper cap and Outside bottom cap are the standard setting to prevent from any harm that might occur.



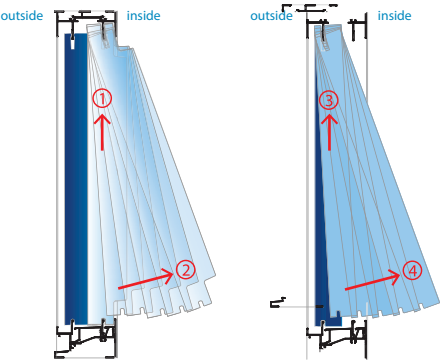
Inside upper cap



Outside bottom cap

• Able to be Installed from Inside

The inner frame can be removed safely from the inside for installation and maintenance.



Security

• Crescent with False Locking Prevention

The lock function will work properly and effectively with this setting.



• Inner Stopper

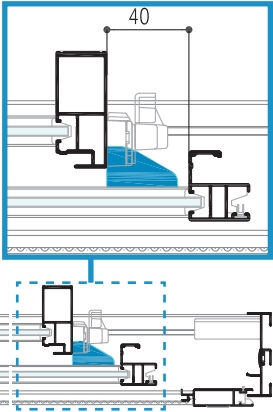
Upper inner stopper and Bottom inner stopper are the standard setting to prevent users from injury when opening the window.



Upper stopper

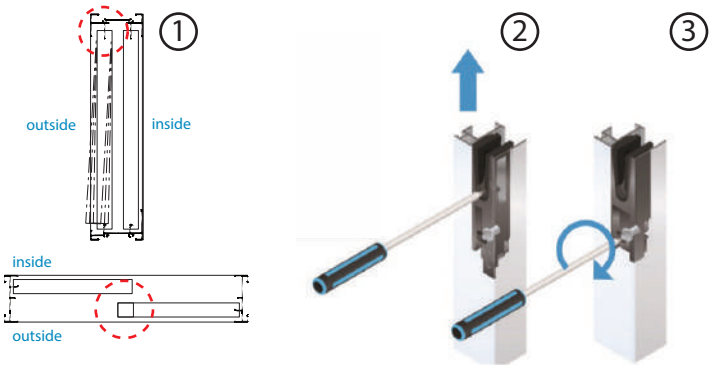


Bottom stopper



• Inner Stopper

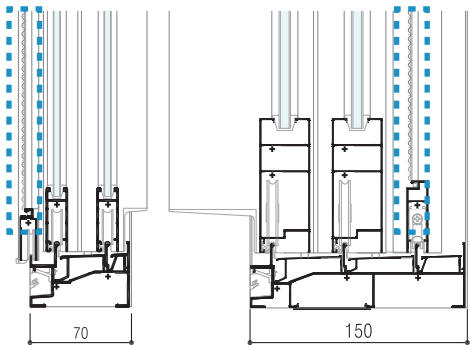
Latch is set at the top of inner frame as the standard to prevent track from jumping out.



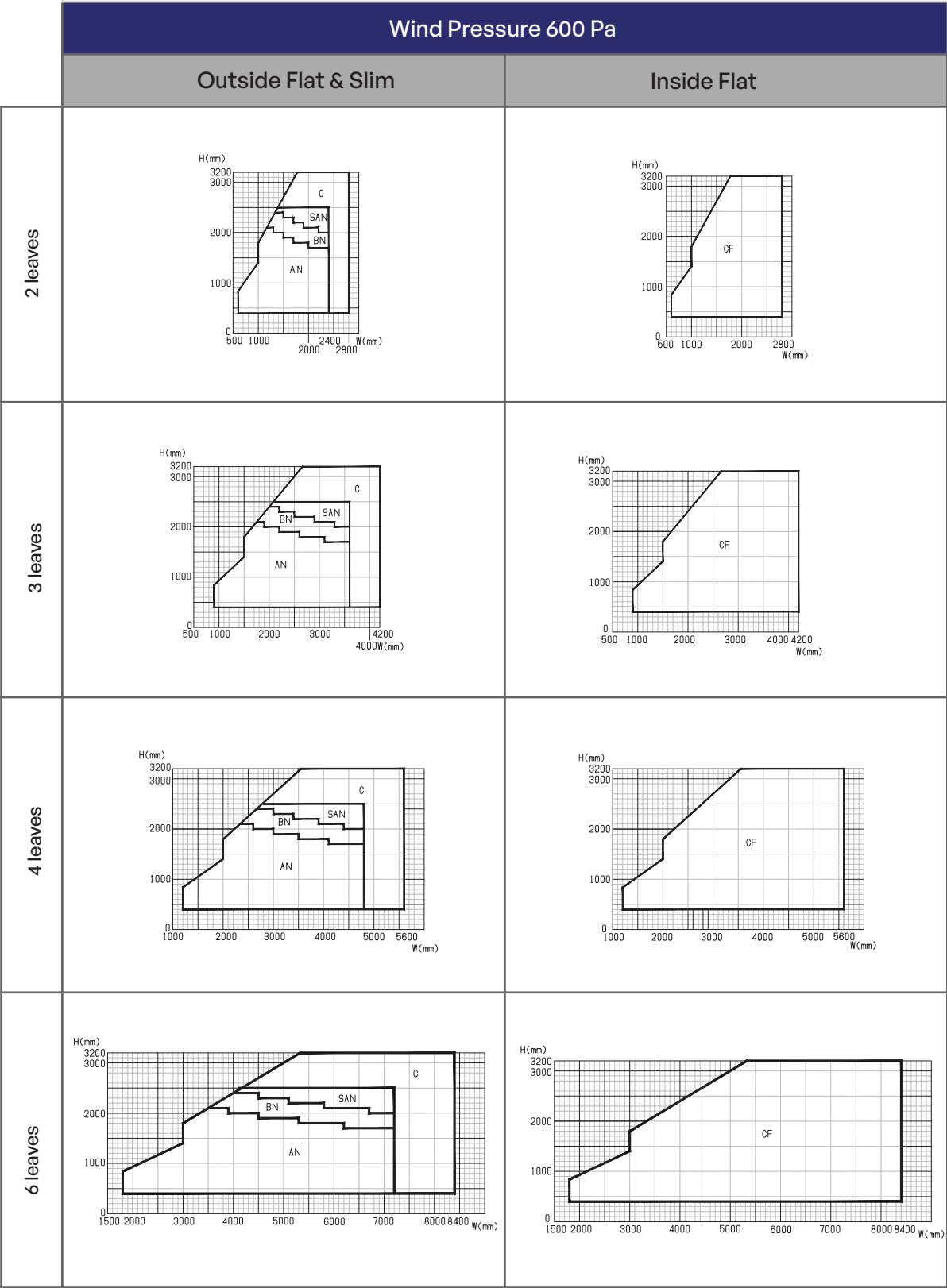
Insect Screen

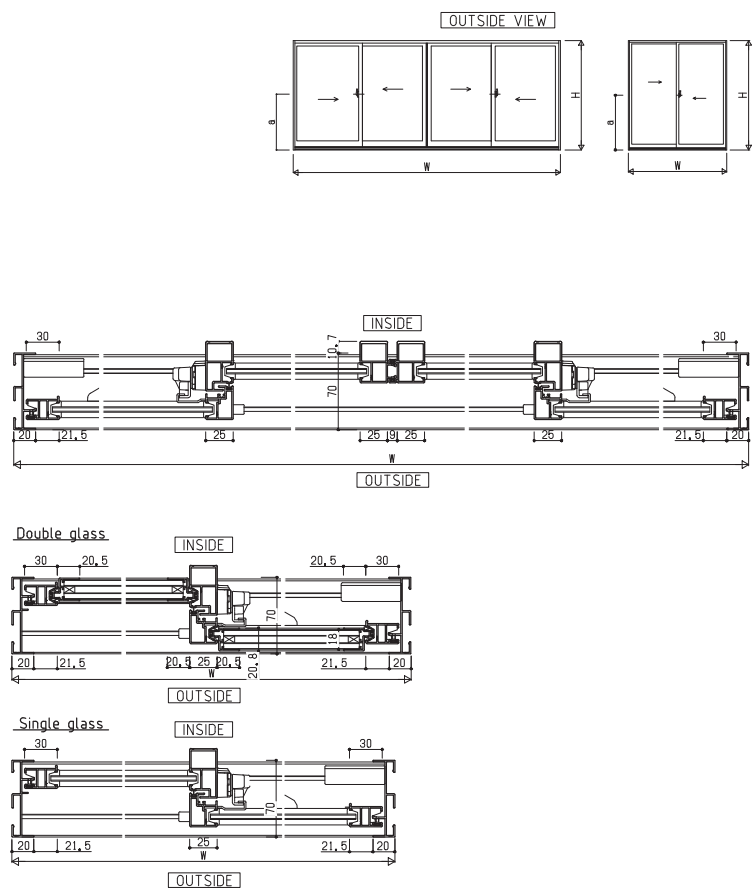
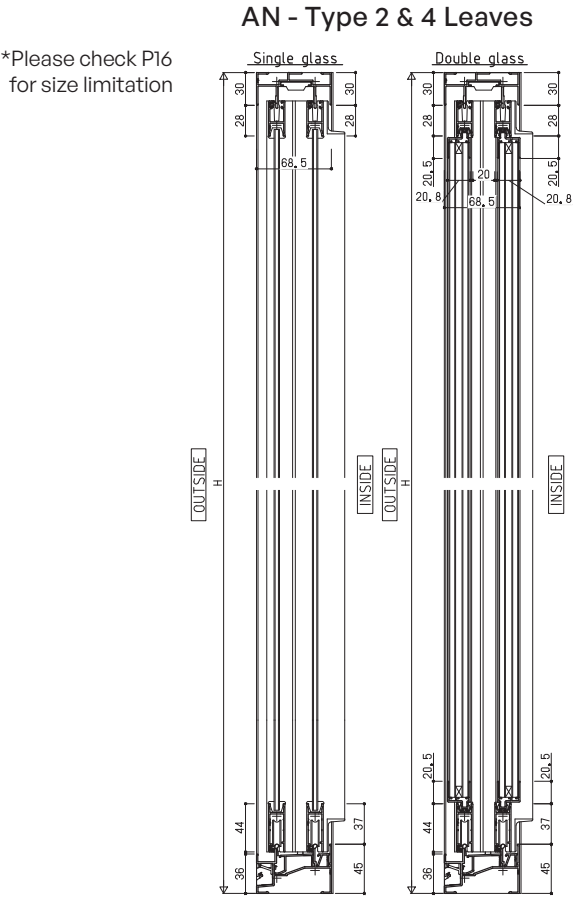
• Sliding 2 Tracks and 3 Track

This setting will protect from any insect disturbance and promote clear view through window.

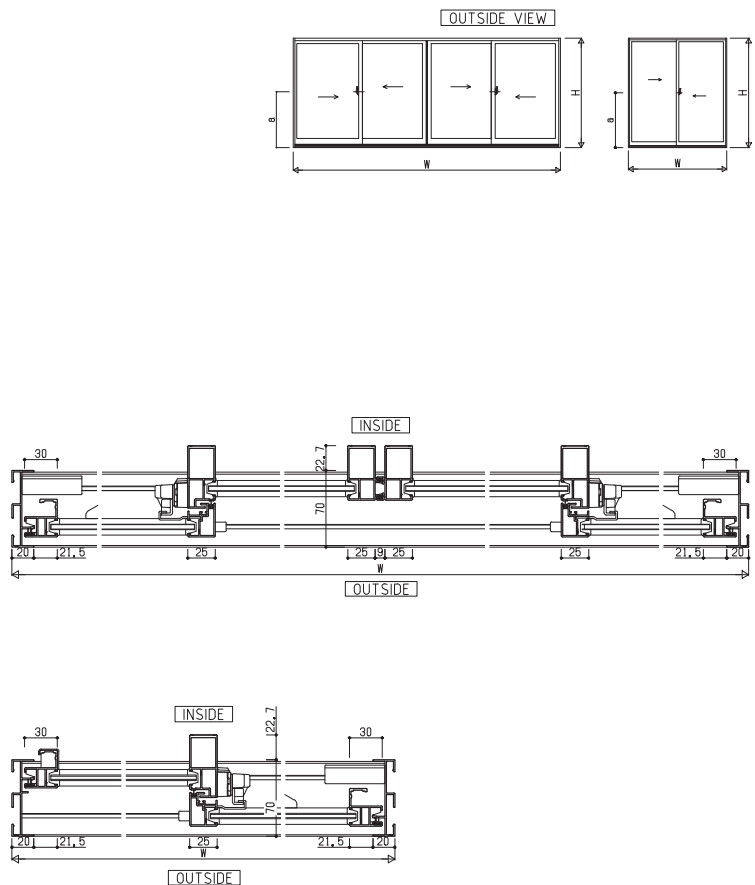
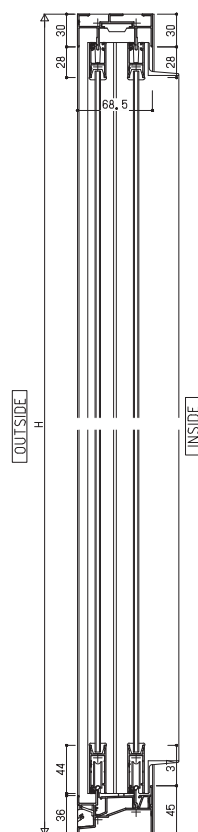


SIZE LIMITATION





BN - Type 2 & 4 Leaves

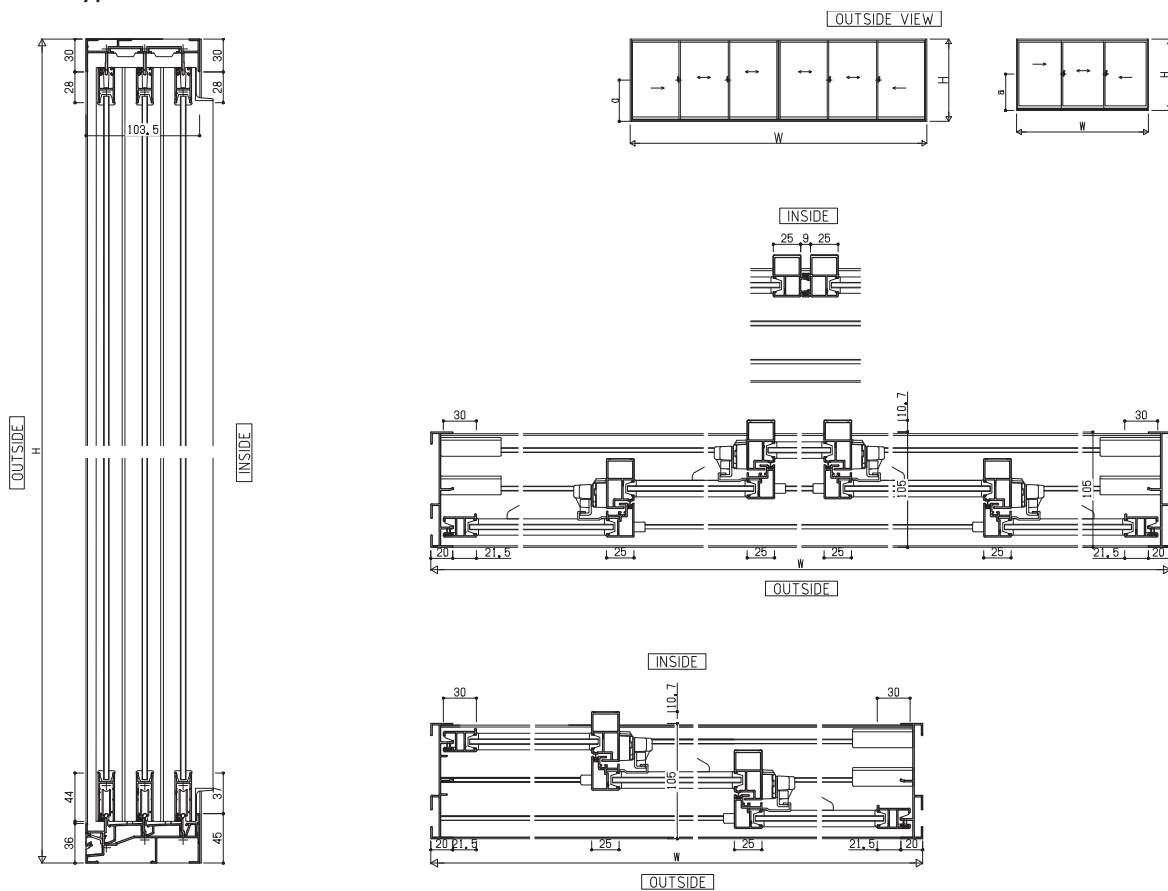


STANDARD SLIDING

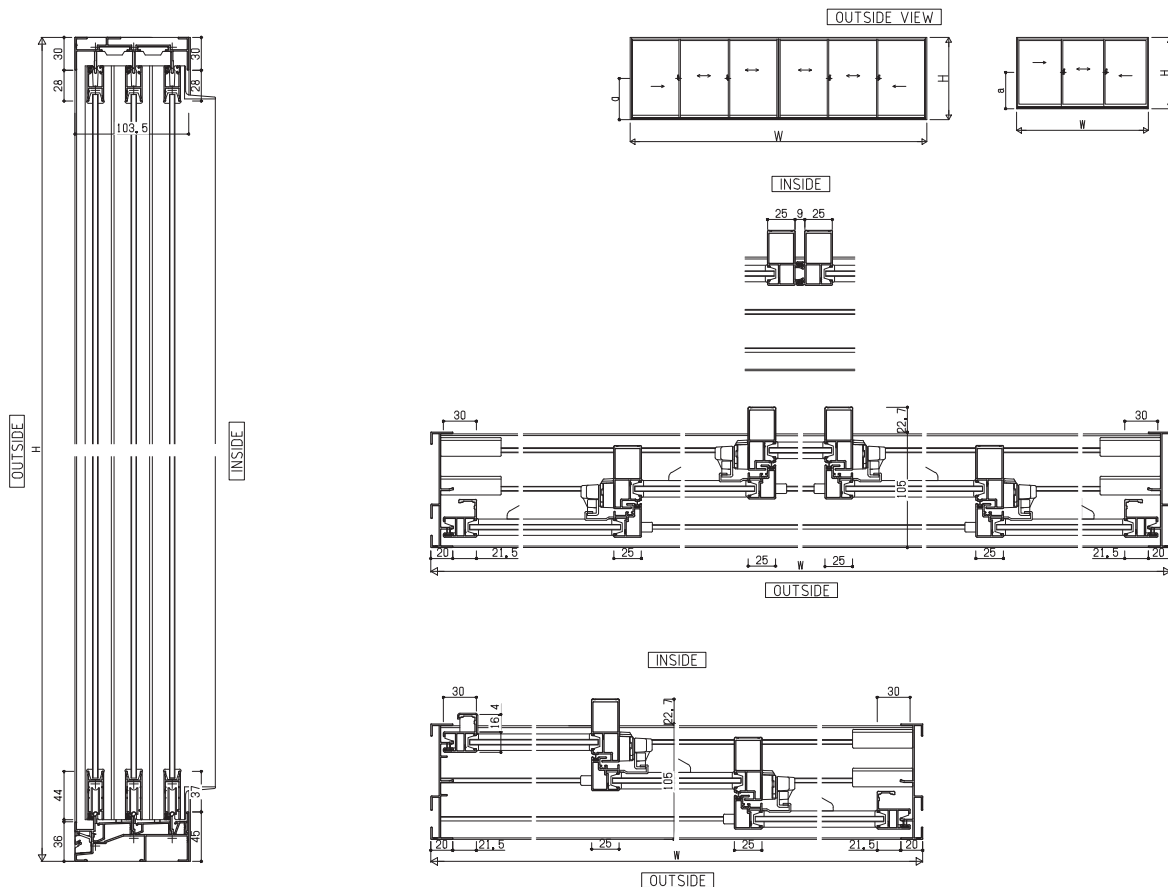
System Drawing & Size Limitation

AN - Type 3 & 6 Leaves

*Please check P16 for size limitation

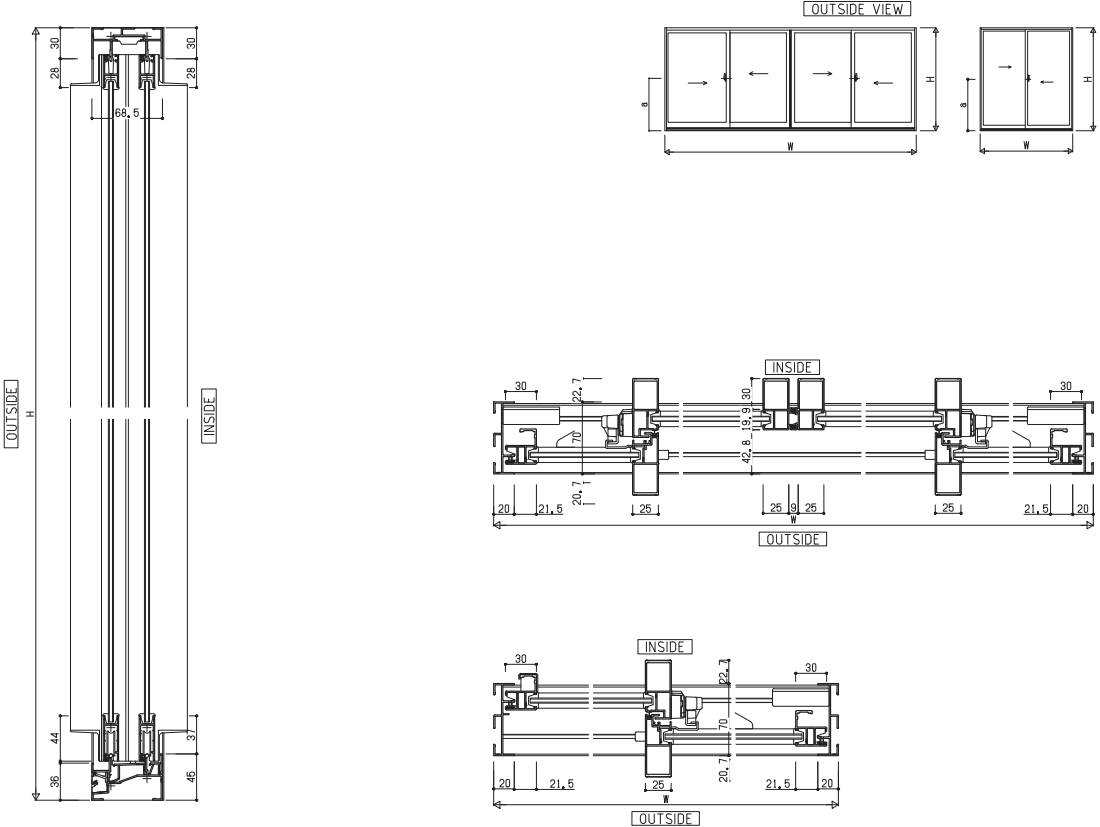


BN - Type 3 & 6 Leaves

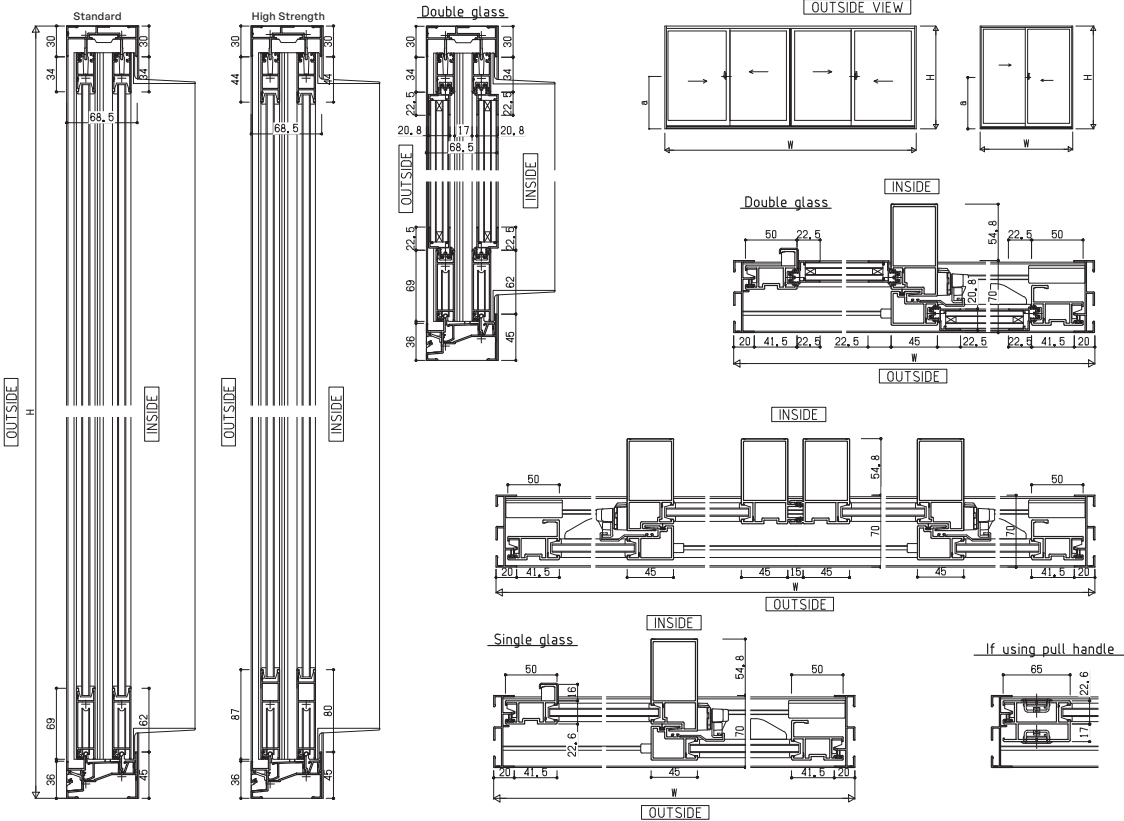


SAN - Type 2 & 4 Leaves

*Please check P16
for size limitation



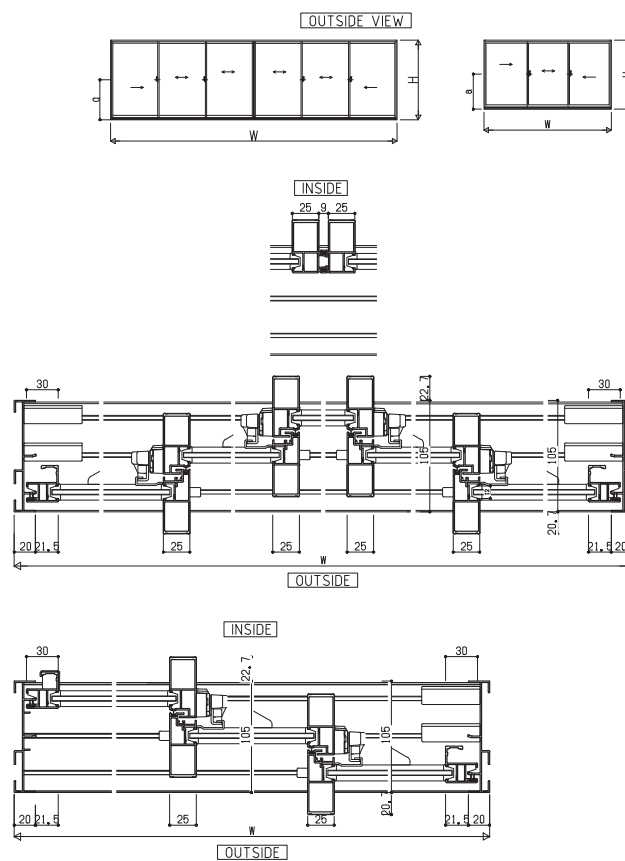
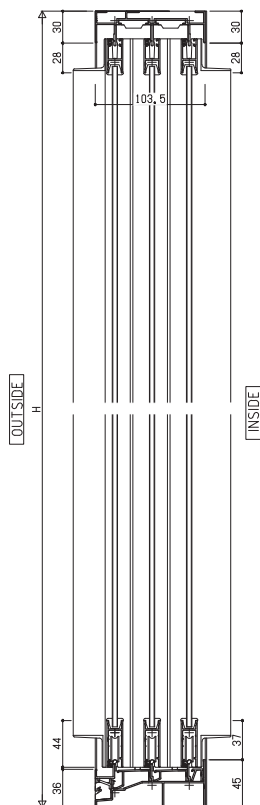
C - Type 2 & 4 Leaves



STANDARD SLIDING

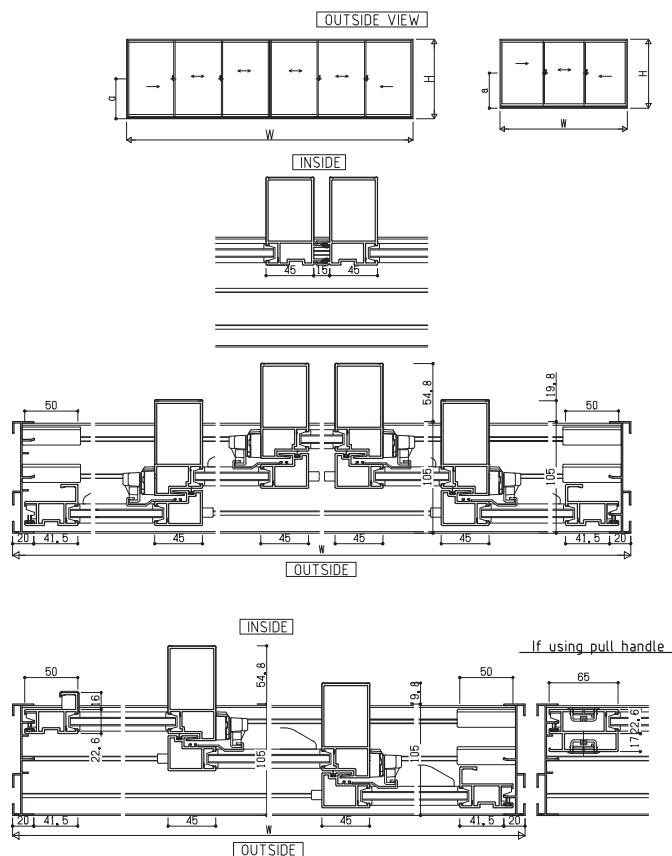
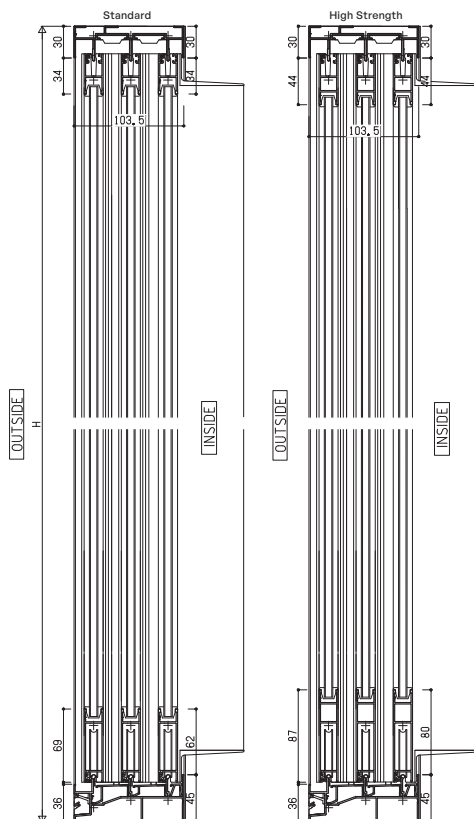
System Drawing & Size Limitation

SAN - Type 3 & 6 Leaves



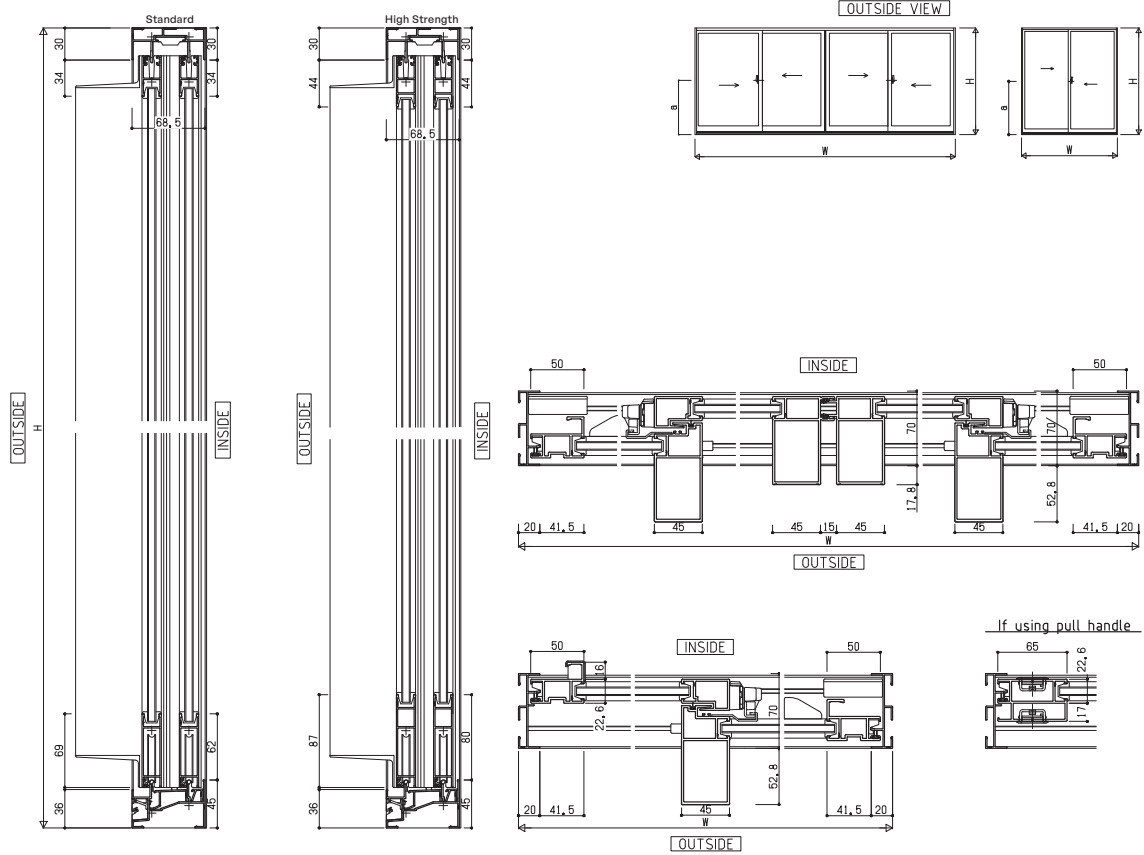
*Please check P16 for size limitation

C - Type 3 & 6 Leaves



CF - Type 2 & 4 Leaves

*Please check P16
for size limitation

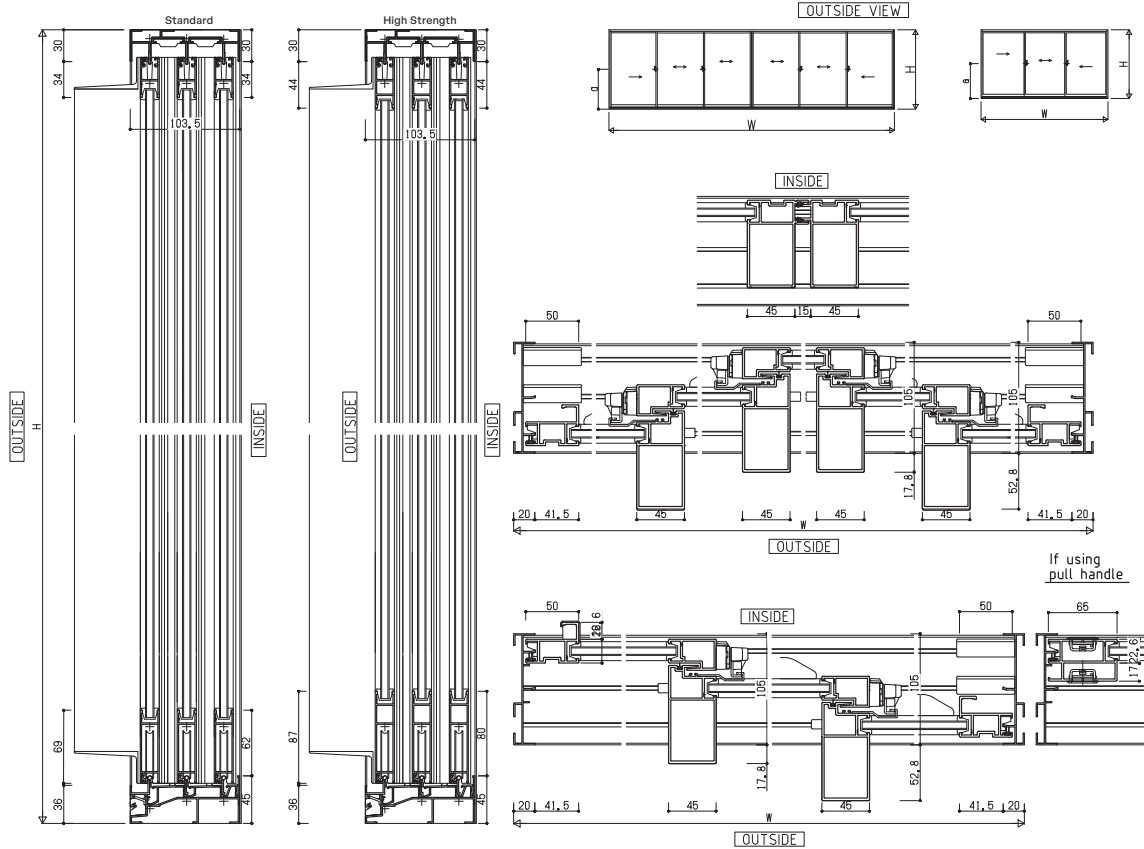


STANDARD SLIDING

System Drawing & Size Limitation

CF - Type 3 & 6 Leaves

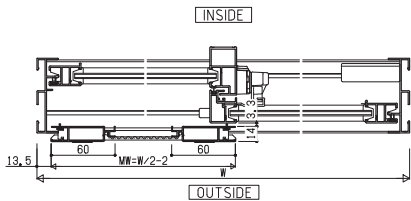
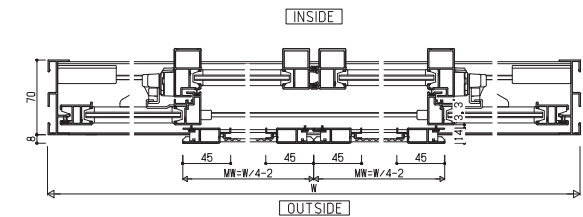
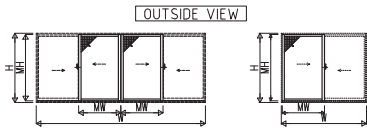
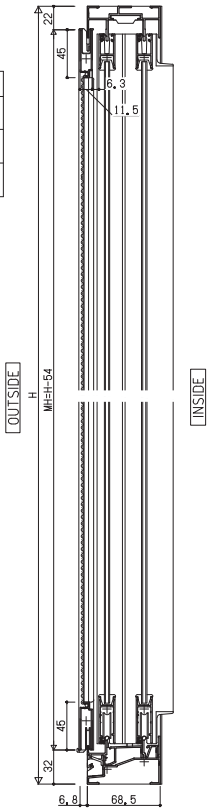
*Please check P16
for size limitation



System Drawing & Size Limitation

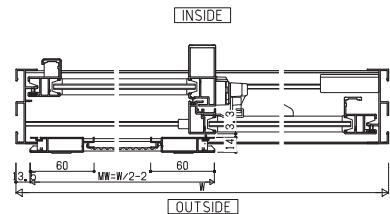
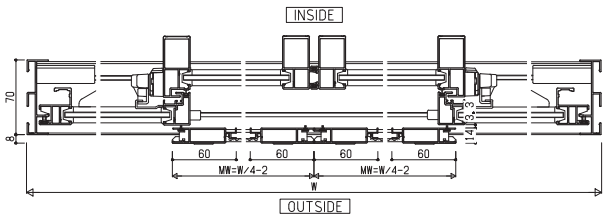
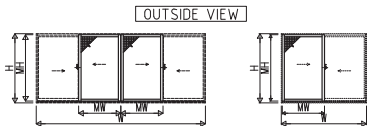
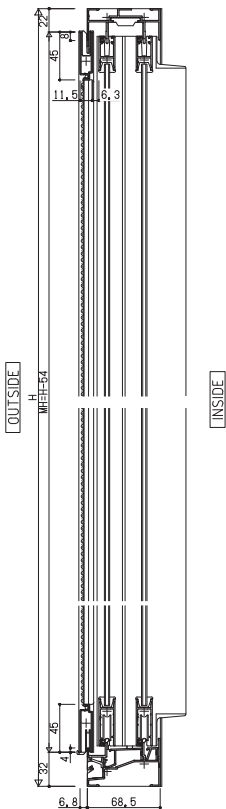
System Drawing & Size Limitation

	LEAVES	
	2	4
WIDTH	298 ≤ MW ≤ 1198	
HEIGHT	346 ≤ MH ≤ 2346	



System Drawing & Size Limitation

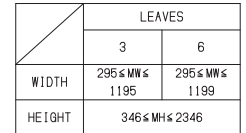
Insect Screen (Optional)



System Drawing & Size Limitation

Insect Screen (Optional)

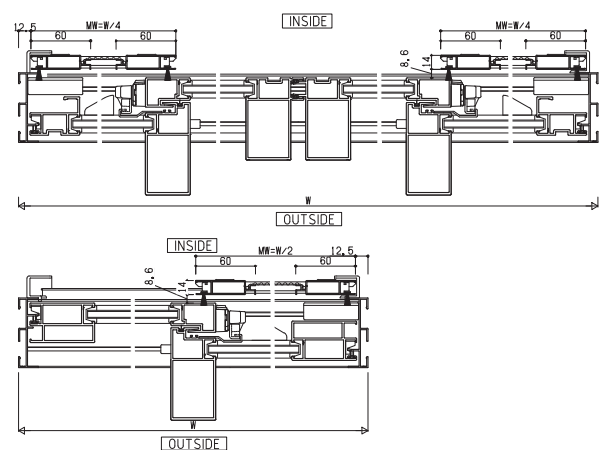
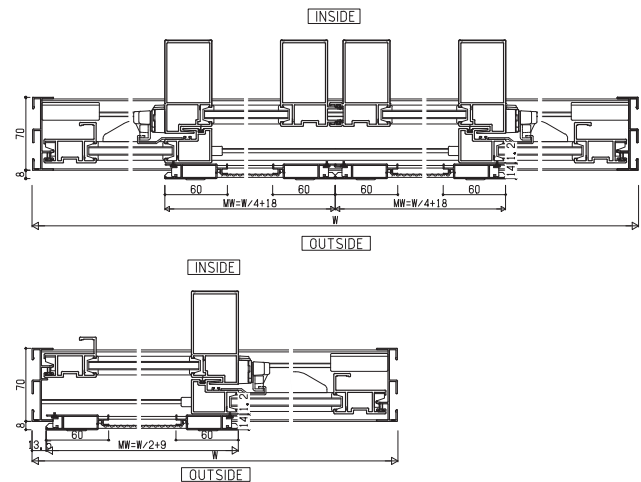
Size Limitation Insect Screen



The technical drawings illustrate the 8000 Series window system. The top section shows the 'OUTSIDE VIEW' of the frame and sash, with dimensions for height (H) and width (W). The middle section shows the 'INSIDE VIEW' of the frame and sash, with dimensions for height (H) and width (W). The bottom section shows a detailed cross-section of the glazing unit, with dimensions for height (H) and width (W). The cross-section shows the frame, sash, and glazing unit, with dimensions for the frame (60), sash (60), and glazing unit (60). The total height is 105 and the total width is 13.5. The cross-section also shows the 'OUTSIDE' and 'INSIDE' views of the glazing unit.

System Drawing & Size Limitation

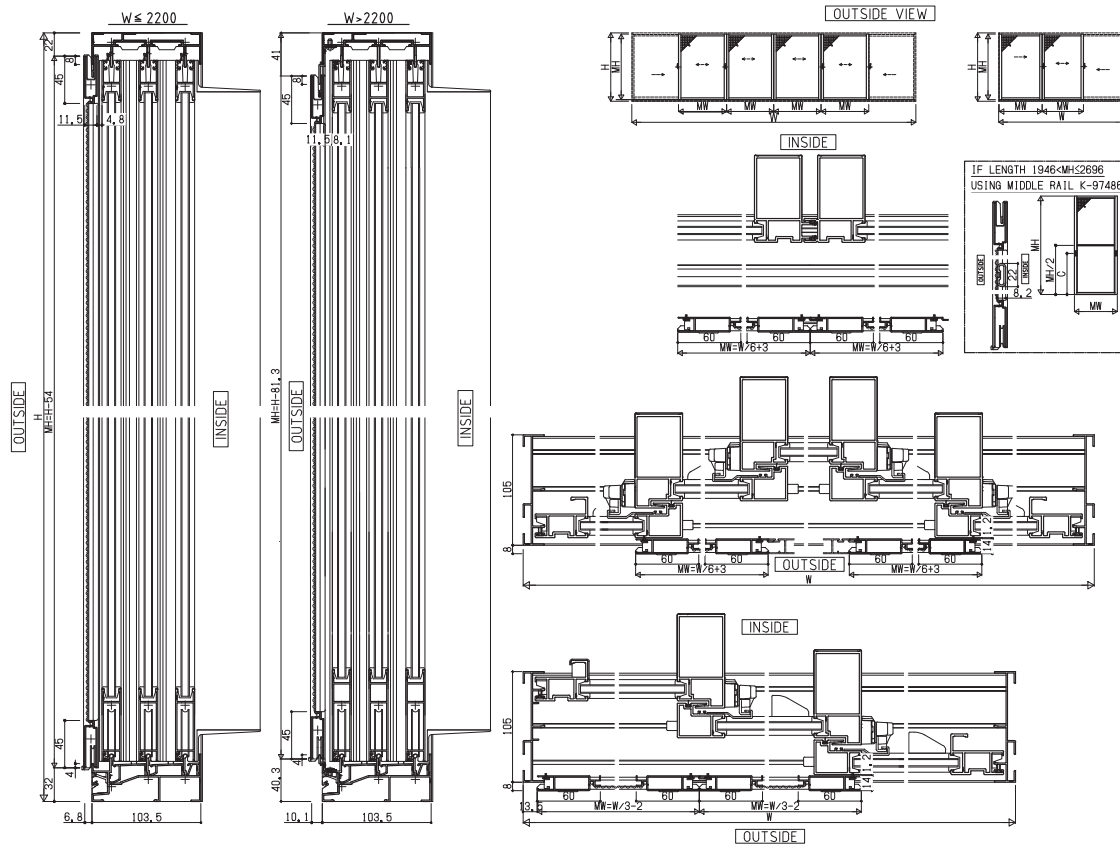
Insect Screen (Optional)



STANDARD SLIDING

System Drawing & Size Limitation Insect Screen (Optional)

Insect Screen C - Type 3 & 6 Leaves



Standard Type

	LEAVES	
	3	6
WIDTH	$298 \leq MW \leq 1503$	$303 \leq MW \leq 1503$
HEIGHT	$346 \leq MH \leq 2346$	

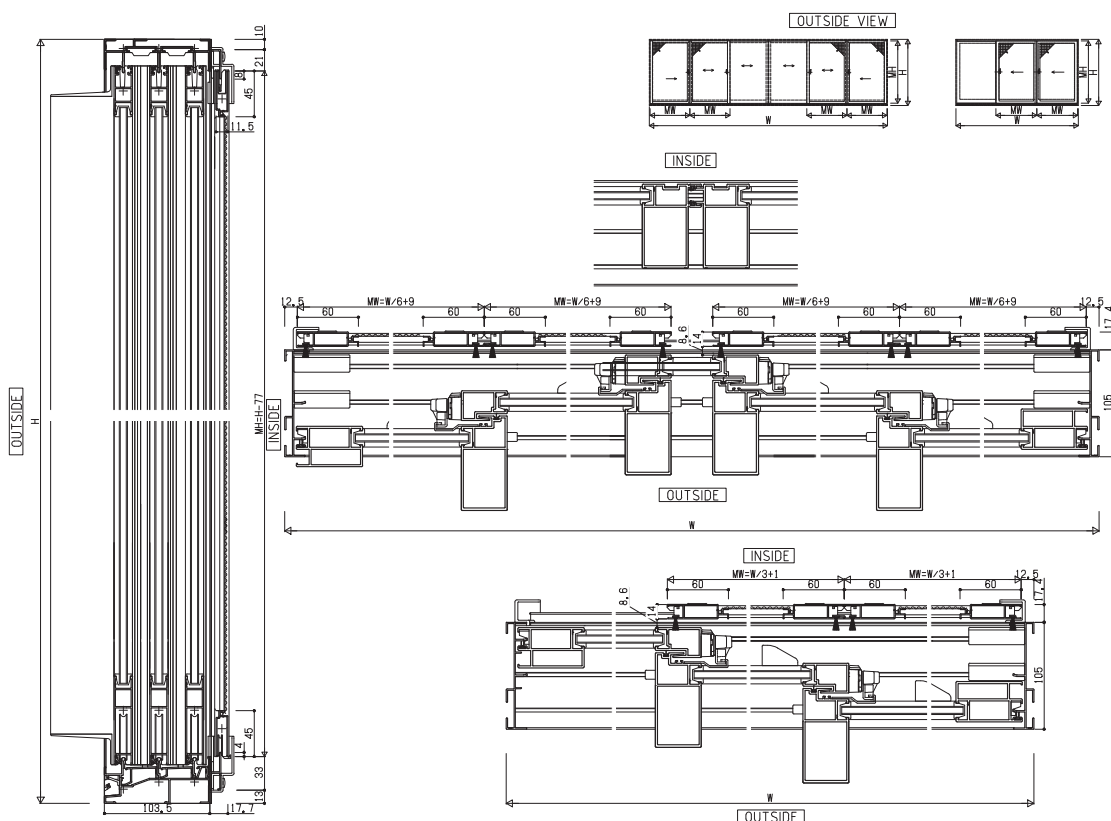
Hook Lock Type

	LEAVES	
	3	6
WIDTH	$295 \leq MW \leq 1503$	$298 \leq MW \leq 1503$
HEIGHT	$1318 < MH \leq 3119$	

Stile Option

	INSECT SCREEN STILE
$MH \leq 2696$	
$MH > 2696$	

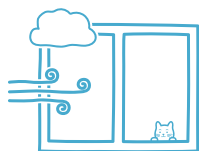
Insect Screen CF - Type 3 & 6 Leaves



CF - Type

	LEAVES	
	3	6
WIDTH	$501 \leq MW \leq 1401$	$509 \leq MW \leq 1409$
HEIGHT	$1323 \leq MH \leq 2696$	

WIDE VIEW SLIDING



Structural (Wind Load)

Square
600 Pa
Deflection L/100

Round
500 Pa
Deflection L/125



Water Tightness

Square
250 Pa

Round
75 Pa



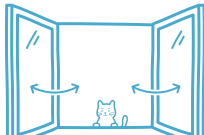
Air Infiltration

Grade A -4 (JIS)



Impact Resistance

30 kg sand bag from
170mm drop Height

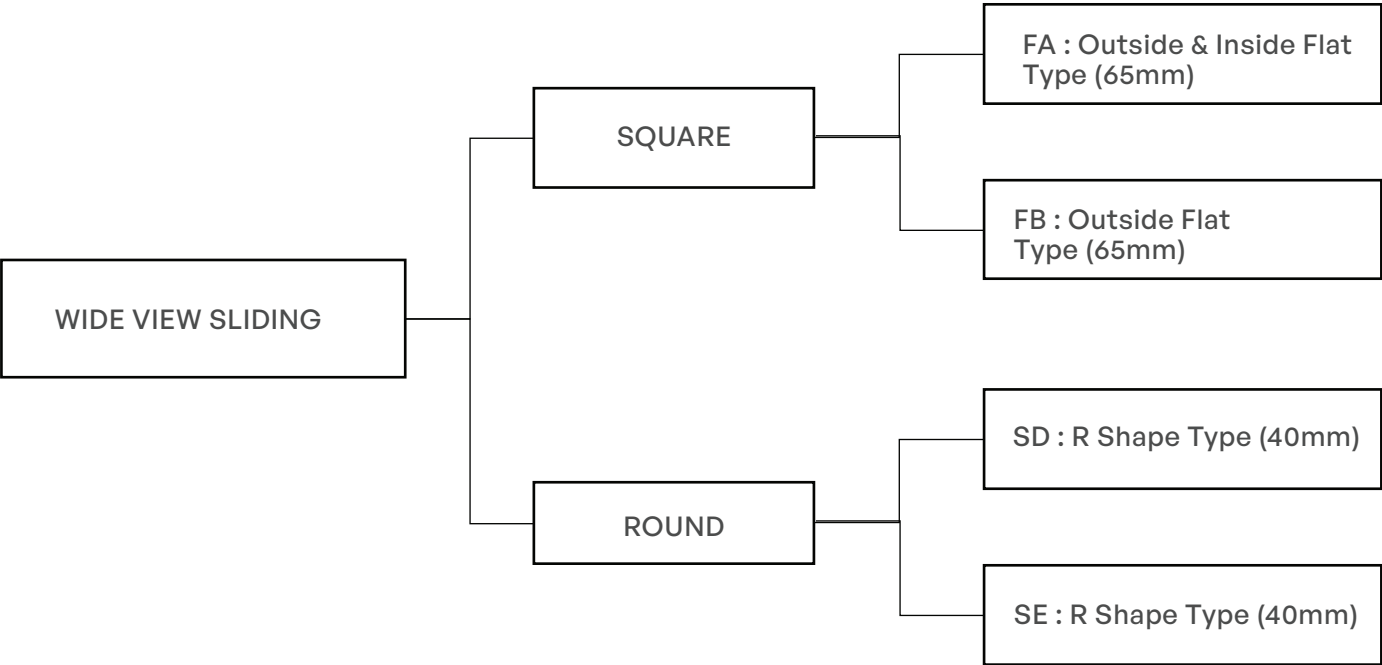


Open-close Test

30,000 cycle
depends on item

WIDE VIEW SLIDING

FEATURES



VARIATION OF LEAVES

FA & FB

Sliding 2 Leaves



Sliding 3 Leaves



Sliding 4 Leaves



Sliding 6 Leaves



SD & SE

Sliding 2 Leaves



Sliding 3 Leaves

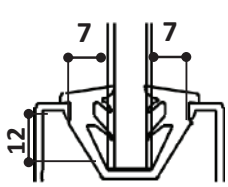
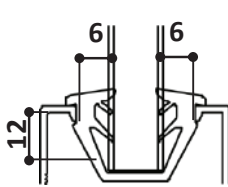
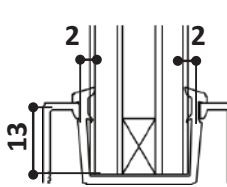


Sliding 4 Leaves



WIDE VIEW SLIDING

GLASS THICKNESS MATRIX & GASKET MATRIX

		Glass & Gasket Type		
				
Glass Groove		22		
Glass Thickness		8	10	6+A6+6
Square Type	FA-Type	●	●	●
	FB-Type	●	●	●
Round Type	SD-Type	●	●	●
	SE-Type	●	●	●
Gasket Number		9K-20843	3K-20280	K-26671

● Available










WIDE VIEW SLIDING

INSCET SCREEN MATRIX

		Insect Screen Type					
Window Type		2 leaves	3 leaves	4 leaves	6 leaves	2 leaves	4 leaves
Screen Type		Outside (with rail attachment)				Inside	
Square Type	FA-Type	●	●	●	●	●	●
	FB-Type	●	●	●	●	●	●
Round Type	SD-Type						
	SE-Type						

● Available

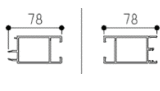
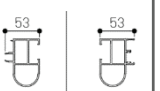
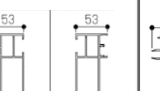
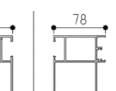
PARTS MATRIX

			Standard				Optional						
													
Item			Crescent Lock	Pull Handle	Hook Lock Thumb Latch	Multipoint Lock Handle	Crescent Lock	Pull Handle	Hook Lock with Key	Universal Handle	Patio Lock Handle		
Square Type	FA-Type				●		●	△	●	△	●		
	FB-Type				●		●	△	●	△	●		
Round Type	SD-Type	2,3 Leaves	●	△	●	●			●				
		4 Leaves	● b-type	△ b-type	● a,d-type	△ b-type			● a,d-type				
	SE-Type	2,3 Leaves	●	△	●	●			●				
		4 Leaves	● c-type	△ c-type	● d-type	△ c-type			● d-type				
Color			DG,YW	DG,YW	DG,YW	YK, D1	DG,YW	DG,YW	DG,YW	DG	YK, YW		
Parts Number			5K-12485	5K-12486	9K-11365	9K-11361	9K-11362	5K-17188	5K-17189	5K-12485	5K-12486	9K-10990/4	9K-10988/89/92

● Available △ Available, paired with crescent lock

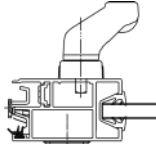

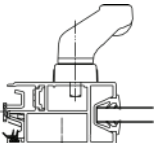

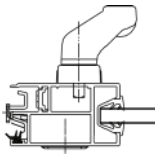




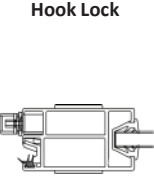

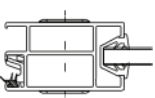
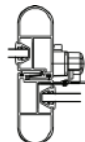

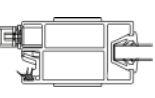
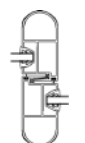

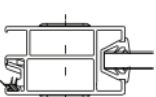

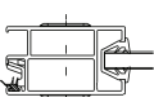




DG=Black, YW=White, YK=Black, D1=White

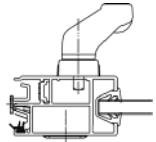

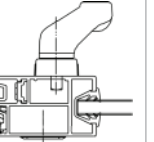

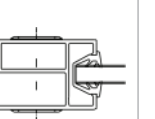
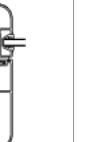



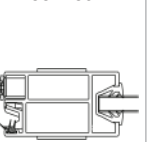

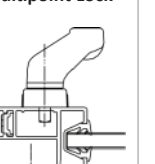
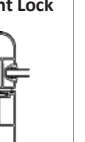
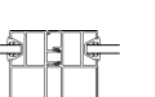
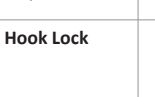

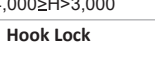
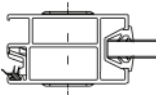
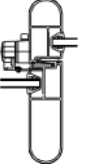
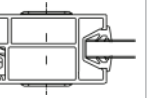

Meeting Stile Type

a-type	b-type	c-type	d-type
			

WIDE VIEW SLIDING

LOCK VARIATION (SD, SE)

CATEGORY	2-LEAF		3-LEAF		4-LEAF		
	STILE	INTERLOCKING STILE	STILE	INTERLOCKING STILE	STILE	INTERLOCKING STILE	MEETING STILE
SD $H \leq 3,000$	Multipoint Lock 	No Lock 	Multipoint Lock 	No Lock 	Multipoint Lock 	Crescent Lock 	No Lock  b-type $H \leq 3,000$
	Hook Lock 	No Lock 	Hook Lock 	No Lock 	Pull Handle 	Crescent Lock 	No Lock  b-type $H \leq 3,000$
					Hook Lock 	No Lock 	Hook Lock  a-type $H \leq 2,200$
	Pull Handle 	Crescent Lock 	Pull Handle 	Crescent Lock 			
					Hook Lock 	No Lock 	Hook Lock  d-type $2,200 < H \leq 3,000$

CATEGORY	2-LEAF		3-LEAF		4-LEAF		
	STILE	INTERLOCKING STILE	STILE	INTERLOCKING STILE	STILE	INTERLOCKING STILE	MEETING STILE
SE $H \leq 4000$	Multipoint Lock 	No Lock 	Multipoint Lock 	No Lock 	Pull Handle 	Crescent Lock 	No Lock  c-type $4,000 \geq H > 3,000$
	Hook Lock 	No Lock 	Hook Lock 	No Lock 	Multipoint Lock 	Crescent Lock 	No Lock  c-type $4,000 \geq H > 3,000$
					Hook Lock 	No Lock 	Hook Lock  d-type $4,000 \geq H > 3,000$
	Pull Handle 	Crescent Lock 	Pull Handle 	Crescent Lock 			

WIDE VIEW SLIDING

FEATURES



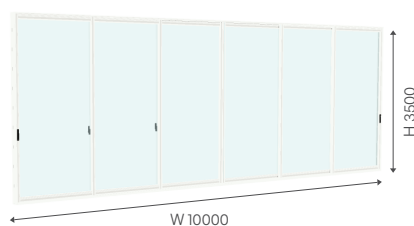
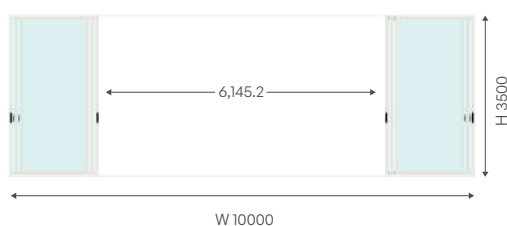
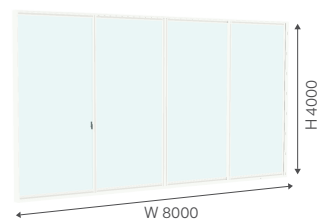
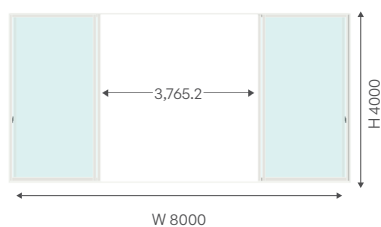
Slim And Round Profile



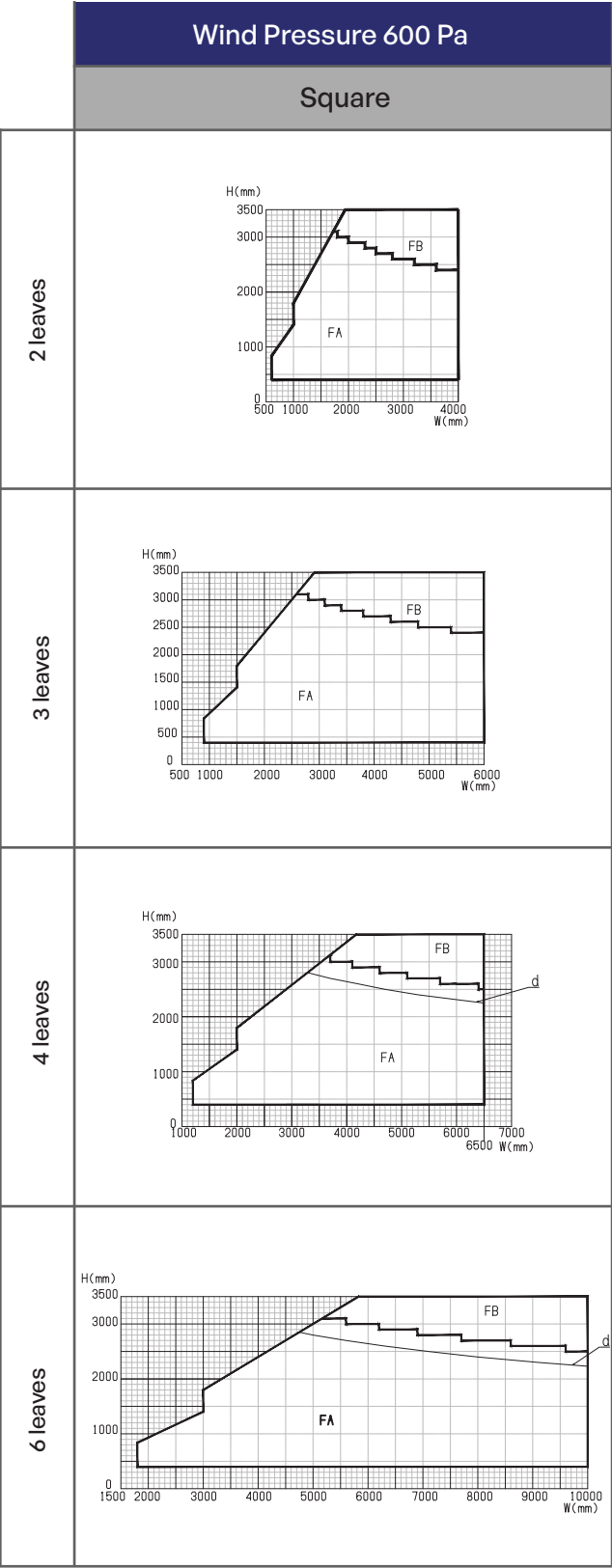
Multipoint Lock System With Single Motion



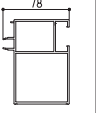
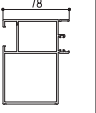
WIDE OPENING

Largest opening among the series, which is W8000×H4000 (4 Leaves) and W10000×H3500 (6 Leaves)



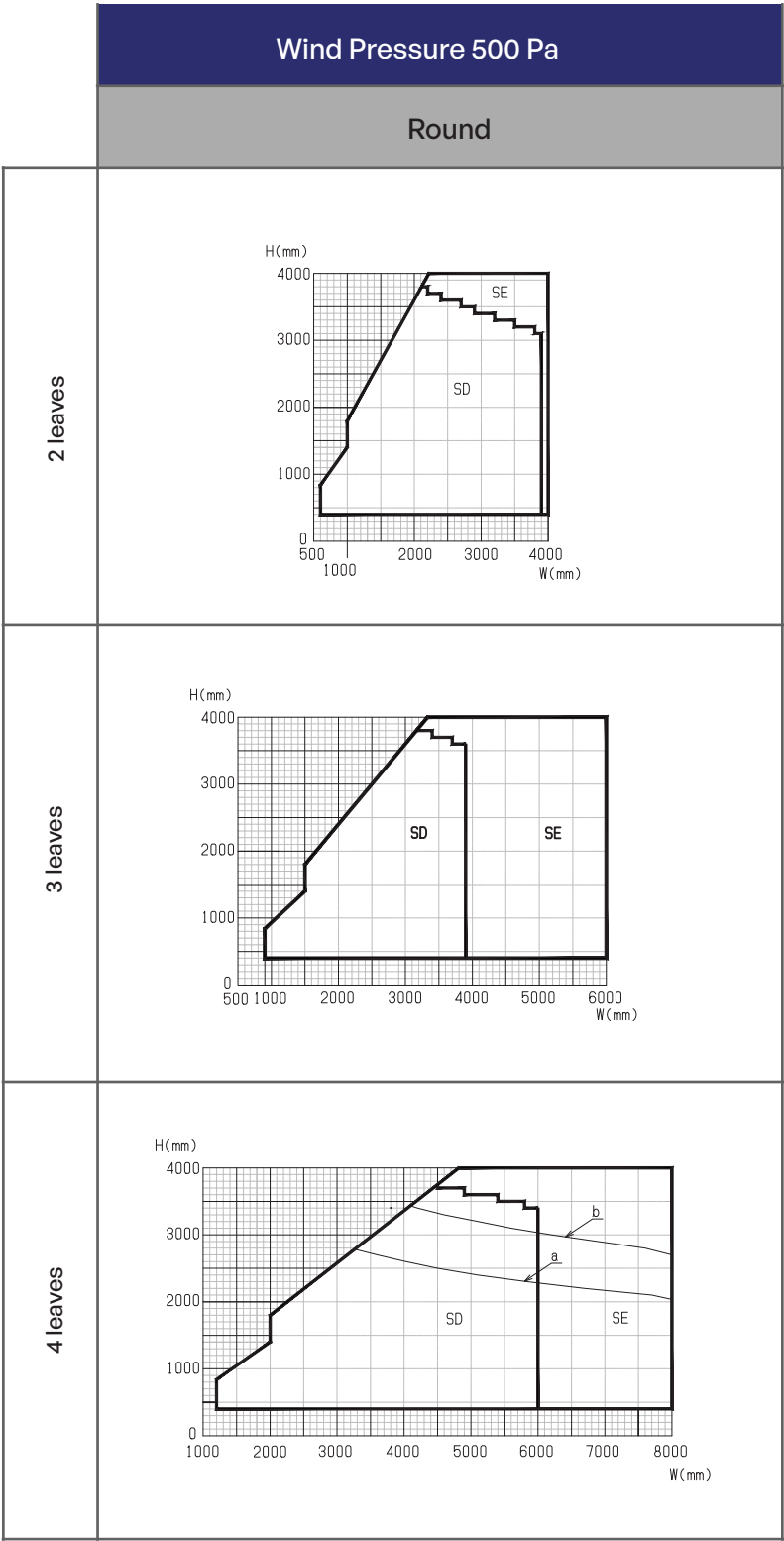
SIZE LIMITATION



MEETING STILE				
TYPE	d		e	

Meeting stile ‘e’ are available for size limitation above meeting stile ‘d’

SIZE LIMITATION

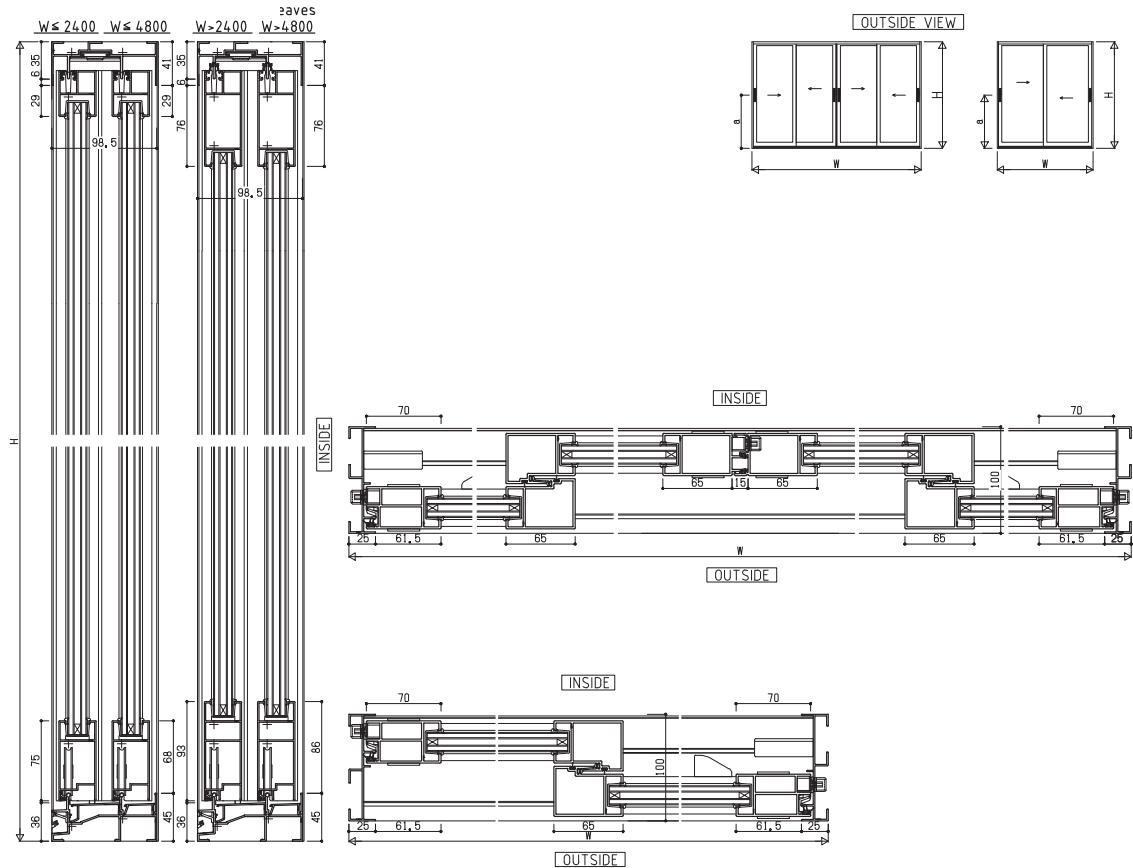


MEETING STILE				
TYPE	a		b	
MEETING STILE				
TYPE	c		d	

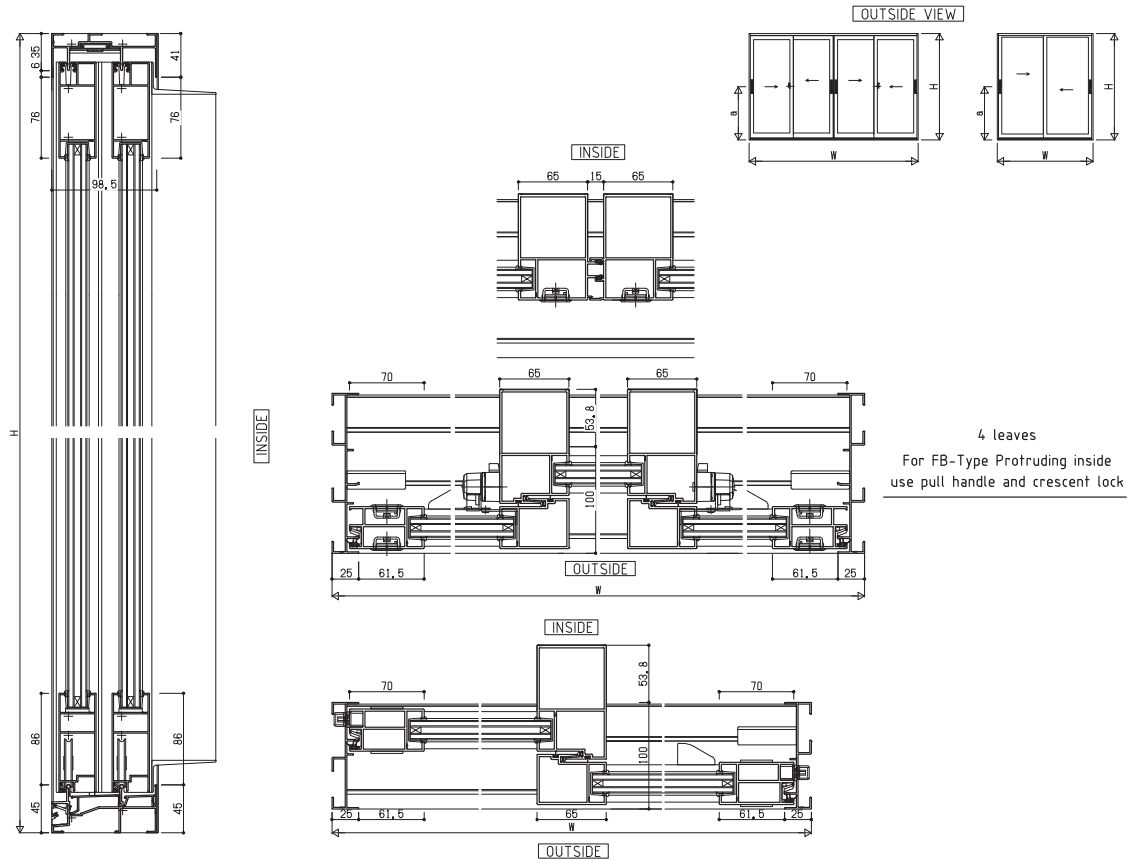
Meeting stile ‘c’ & ‘d’ are available for size limitation above meeting stile ‘b’

FA - Type 2 & 4 Leaves

*Please check P33-34
for size limitation



FB - Type 2 & 4 Leaves

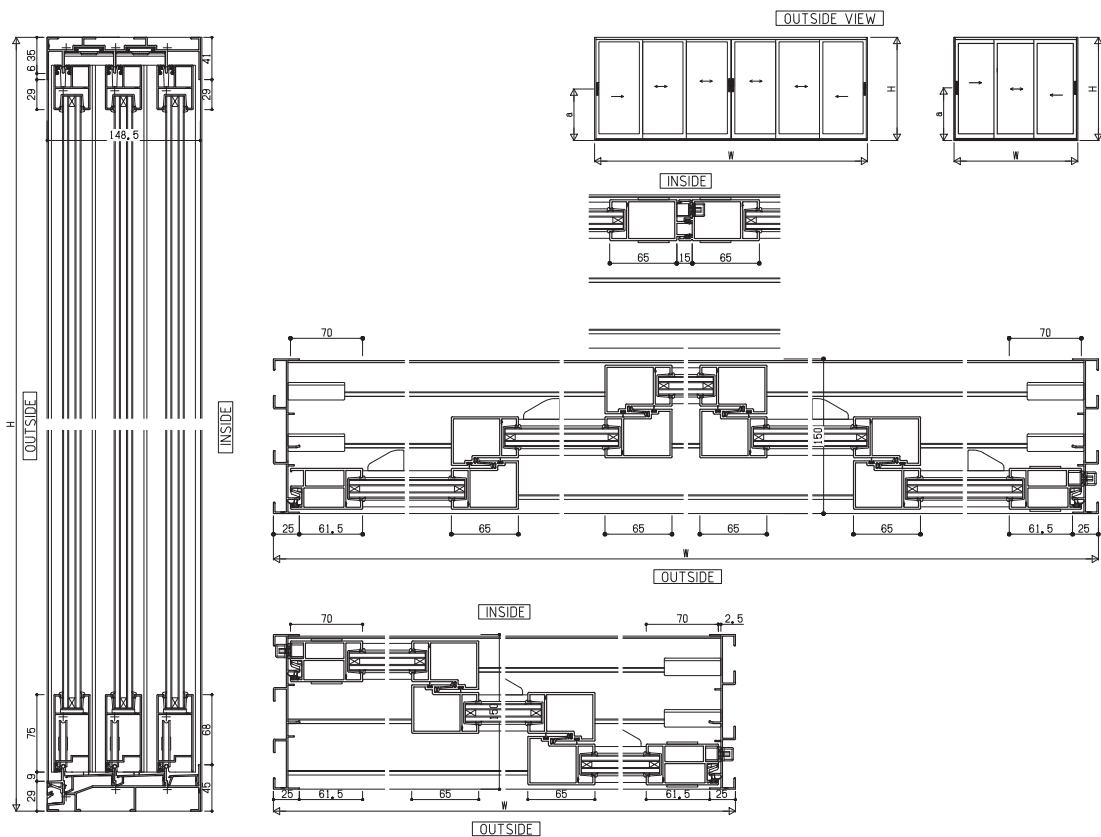


WIDE VIEW SLIDING

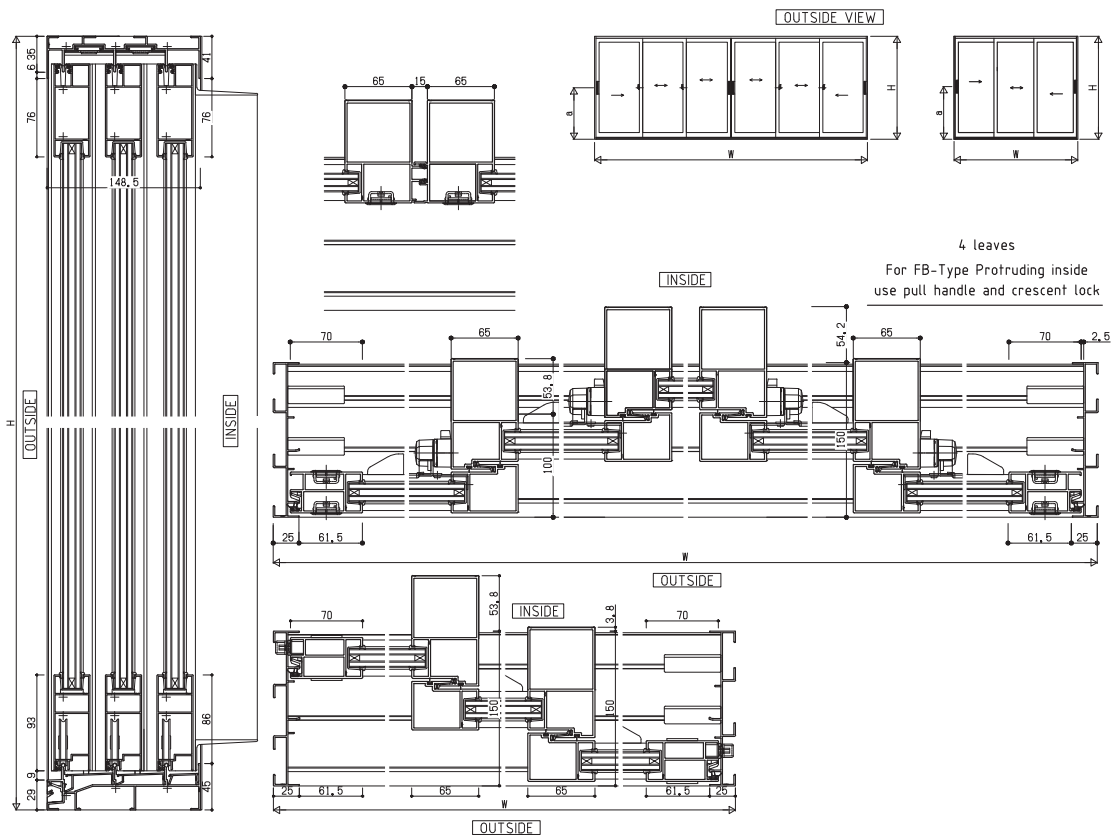
System Drawing & Size Limitation

FA - Type 3 & 6 Leaves

*Please check P33-34
for size limitation

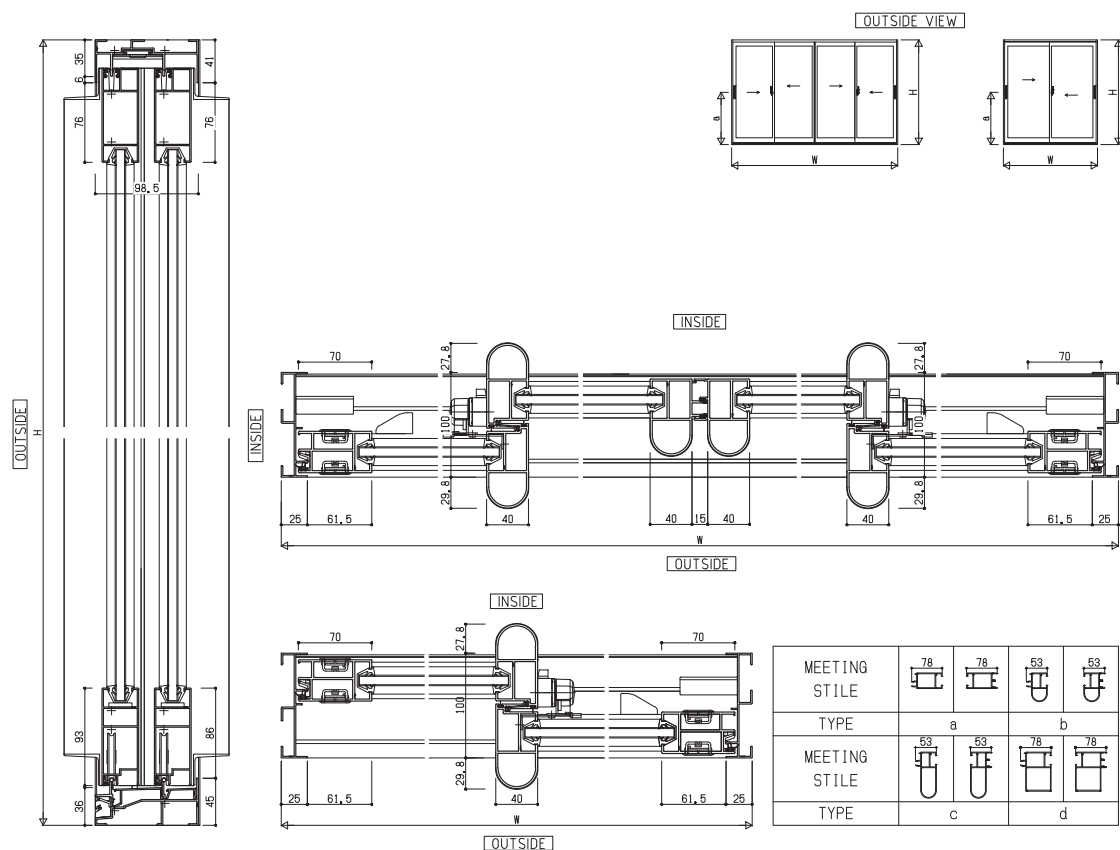


FB - Type 3 & 6 Leaves



System Drawing & Size Limitation

*Please check P33-34
for size limitation



Technical drawings of the 7800 Series window system, including cross-sections and meeting styles.

Cross-sections:

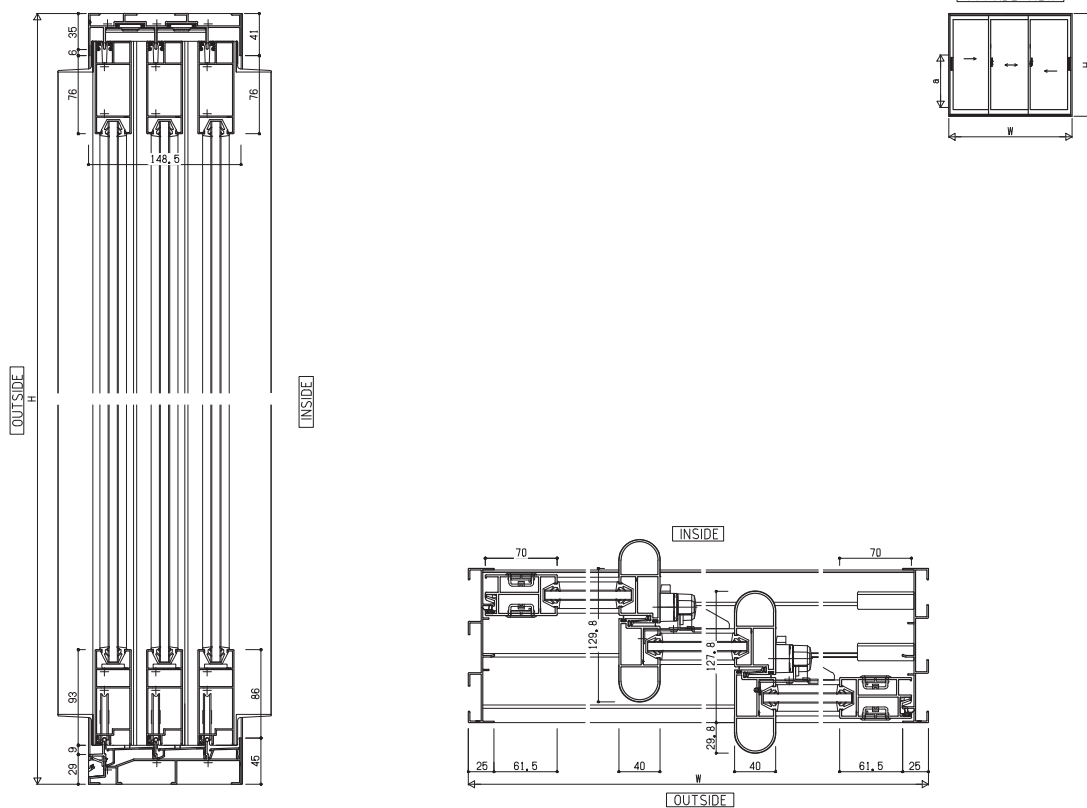
- Left Cross-section:** Shows the window frame with dimensions: 35, 16, 76, 98,5, 41, 76, 93, 38, 45, 86. Labels: OUTSIDE, INSIDE.
- Top Cross-section:** Shows the window frame with dimensions: 70, 27,8, 100, 73,8, 40, 15, 40, 25, 61,5, 4, W, 40, 73,8, 27,8, 70, 61,5, 25. Labels: INSIDE, OUTSIDE.
- Bottom Cross-section:** Shows the window frame with dimensions: 70, 27,8, 100, 73,8, 40, 61,5, 25, W, 40, 73,8, 27,8, 70, 61,5, 25. Labels: INSIDE, OUTSIDE.

Meeting Styles:

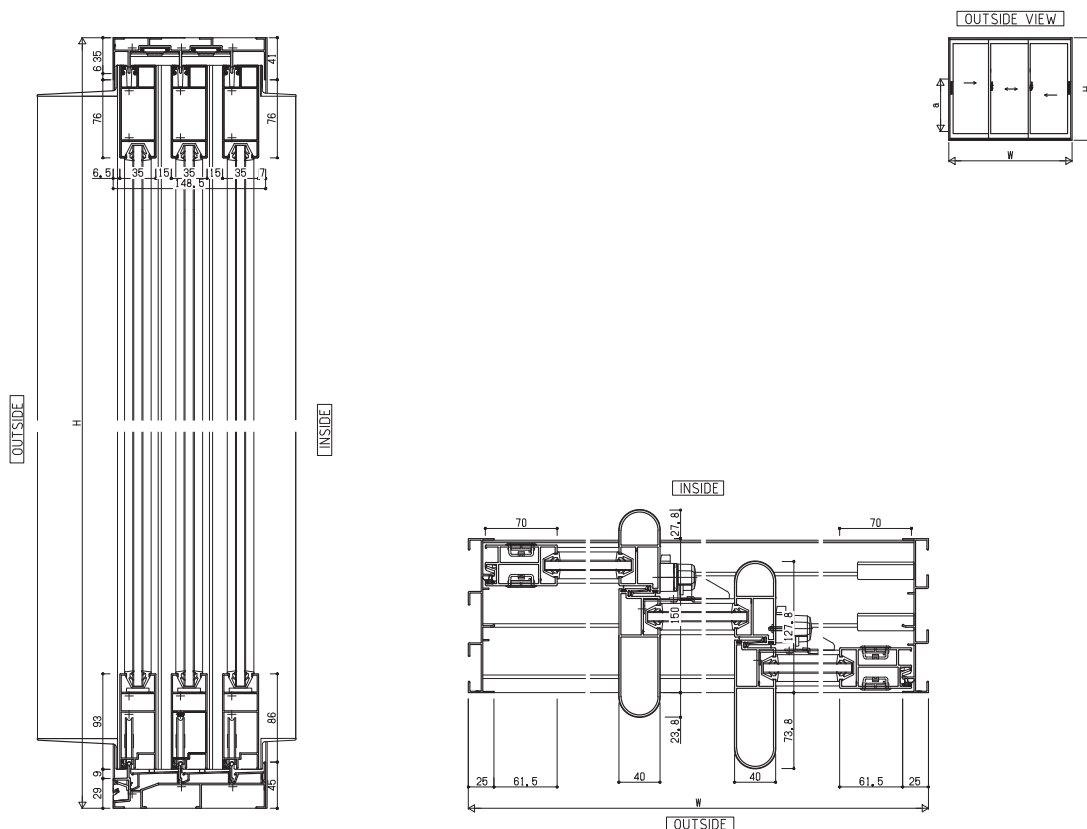
MEETING STYLE	78	78	53	53
TYPE	a	b		
MEETING STYLE	53	53	78	78
TYPE	c	d		

SD - Type 3 Leaves

*Please check P33-34
for size limitation



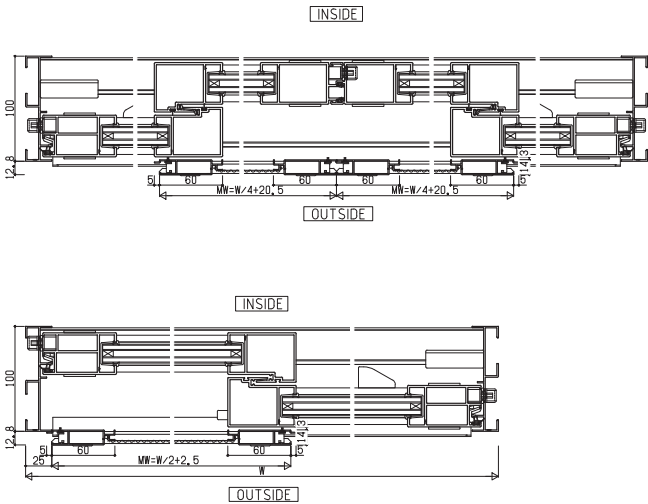
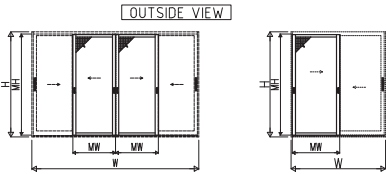
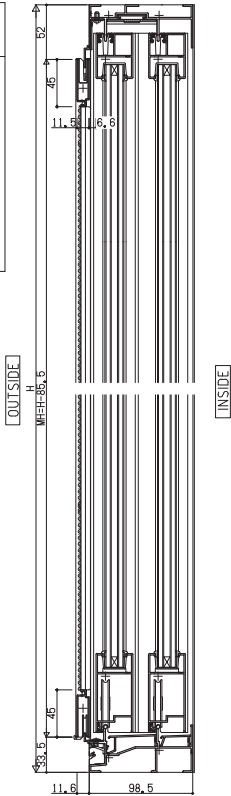
SE - Type 3 Leaves



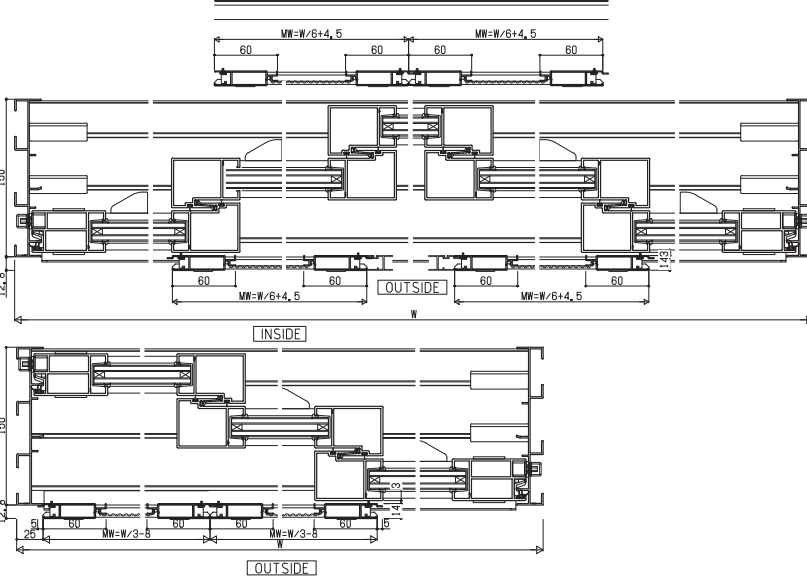
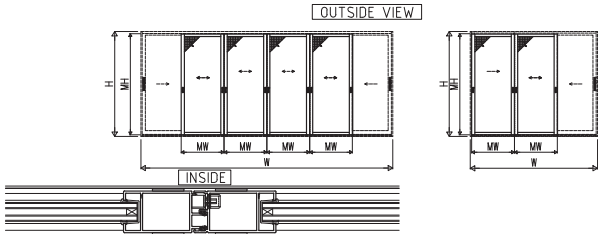
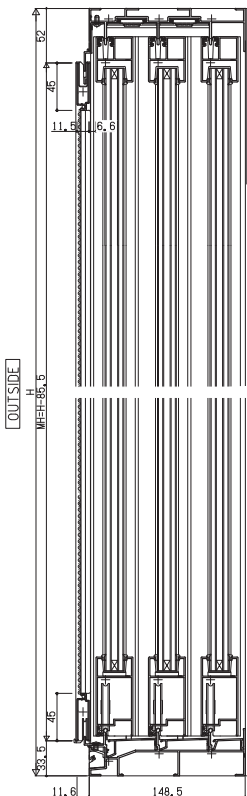
Insect Screen Outside FA,FB - Type 2 & 4 Leaves

Insect Screen Outside

	WIDTH	HEIGHT
2	$302,5 \leq MW \leq 1503$	$314,5 \leq MH \leq 2696$
3	$292 \leq MW \leq 1503$	
4	$320,5 \leq MW \leq 1503$	
6	$304,5 \leq MW \leq 1503$	

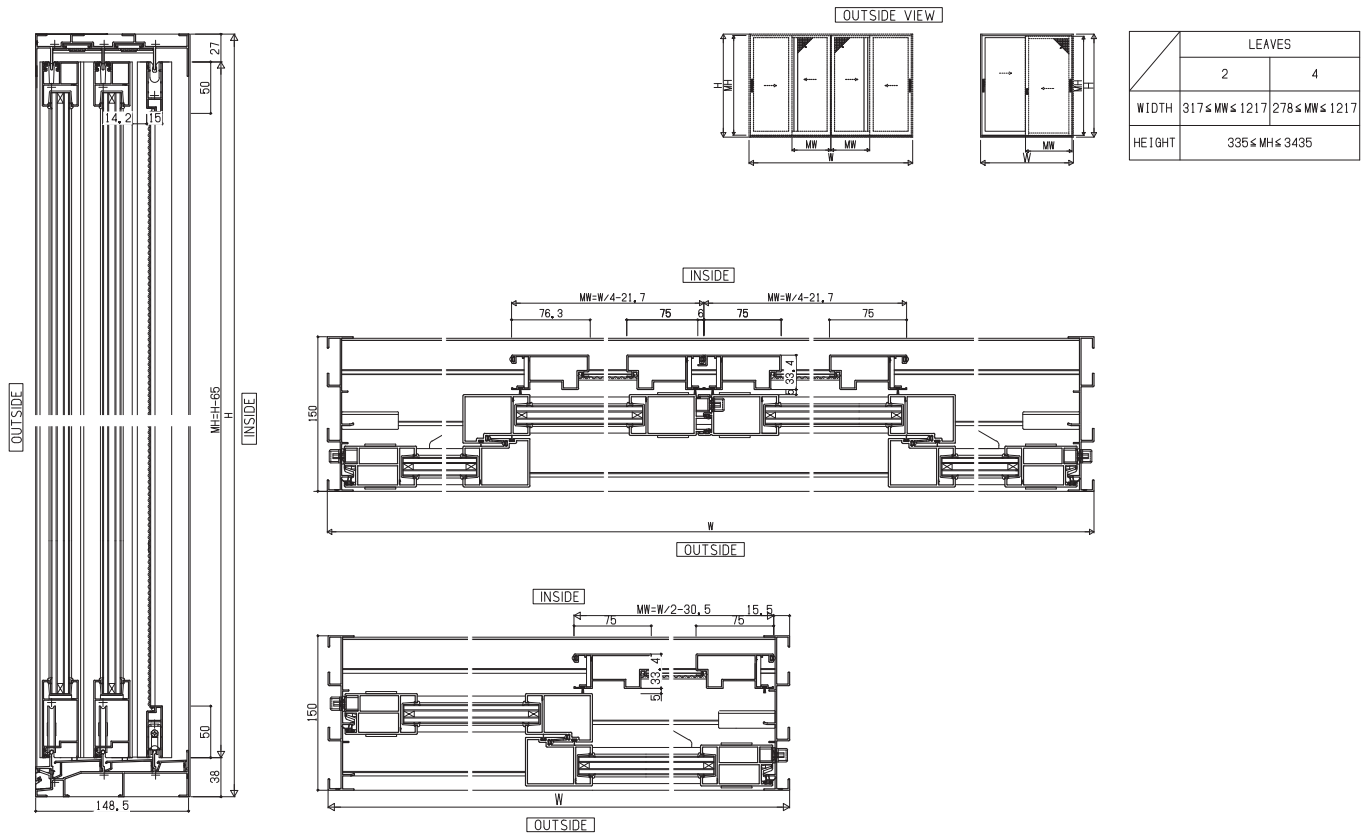


Insect Screen Outside FA,FB - Type 3 & 6 Leaves

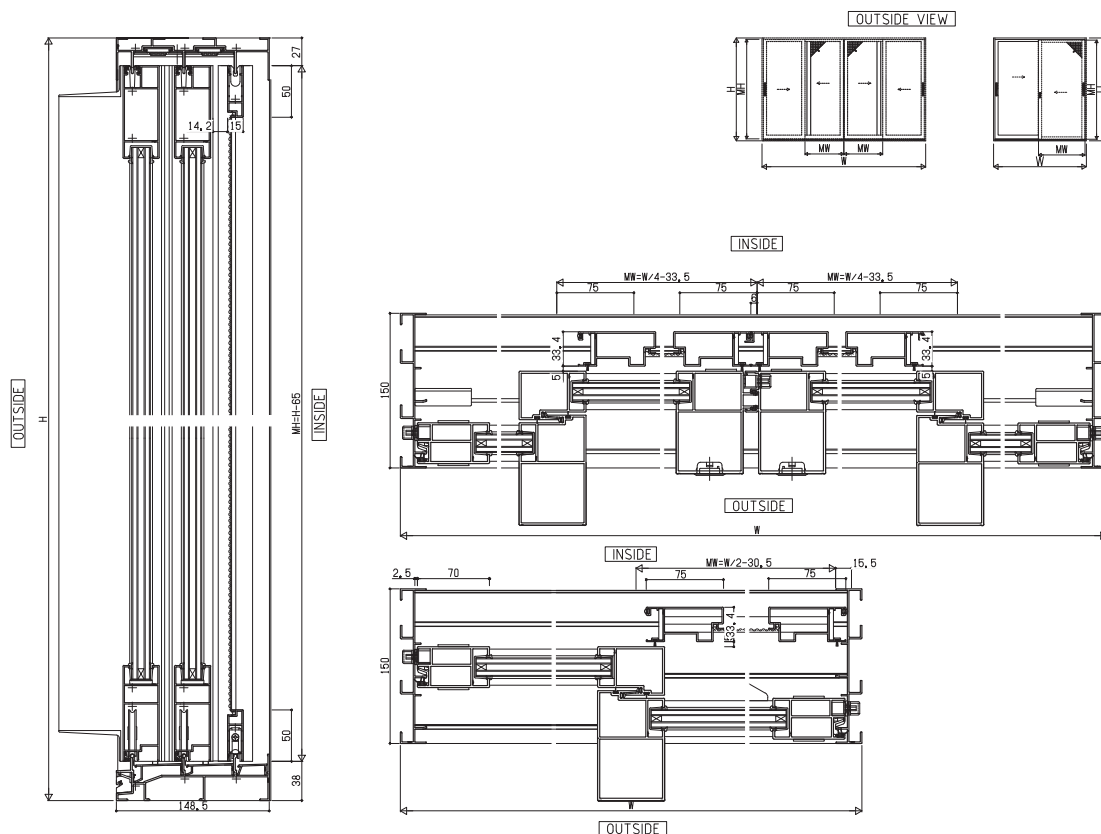


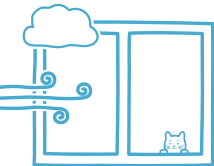
Insect Screen Inside FA - Type 2 & 4 Leaves

Insect Screen Inside



Insect Screen Outside FB - Type 2 & 4 Leaves





Structural (Wind Load)

600 Pa
Deflection
L/100



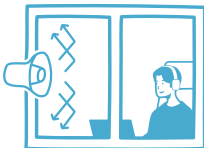
Water Tightness

Square
500 Pa
R-Type
180 Pa



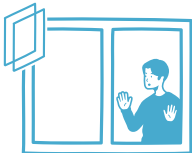
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

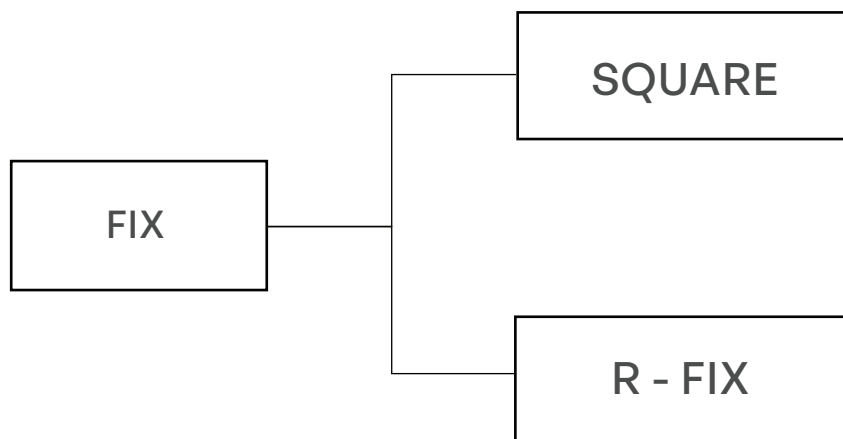
T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw 24 - 30 (ISO)



Double Glazing



PRODUCT DIAGRAM



SQUARE



R - FIX

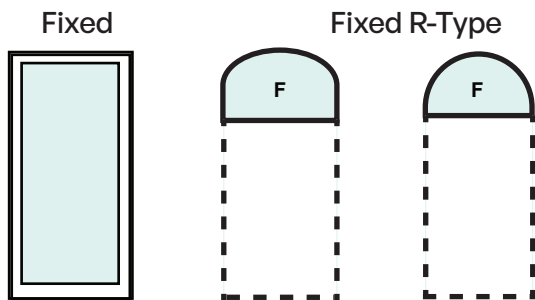
GLASS THICKNESS MATRIX & GASKET MATRIX

Glass & Gasket Type						
Glass Groove		14			24	
Glass Thickness		5	6	8	10	5+A6+5
Square		●	●	●	●	●
R-FIX		●	●	●	●	●
Gasket Number	Out	2K-22277			2K-23422	2K-22277
	In	9K-20523	2K-22973	2K-22975	3K-27077	2K-22973

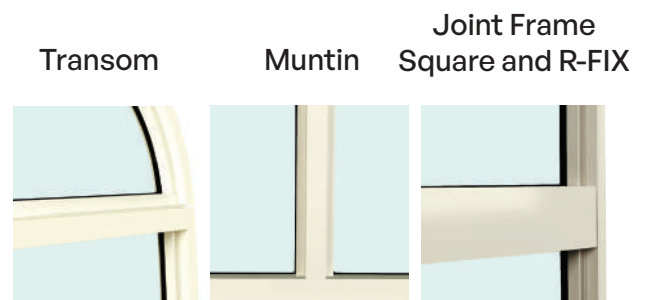
● Available

FEATURES

Variation

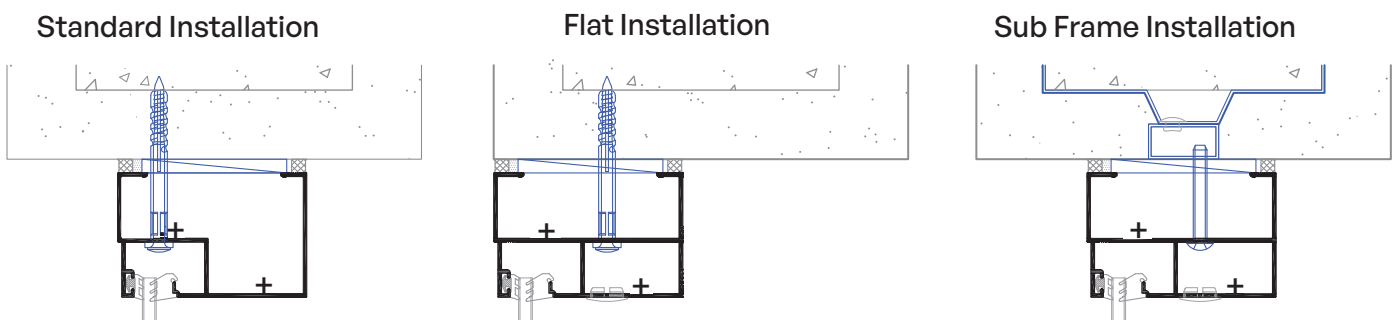


Detail of Profile Combination



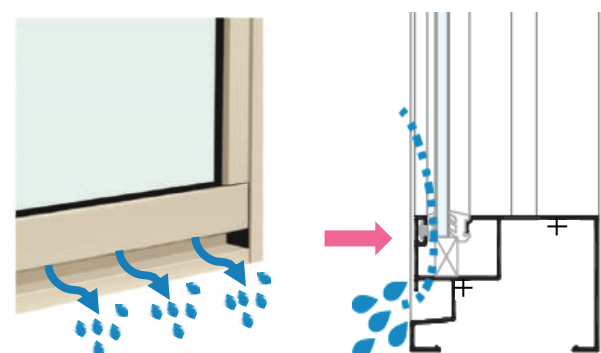
Design

Flat installation and Sub Frame Installation are the methods for the case when the window is installed with exterior wall or install with sub-frame.



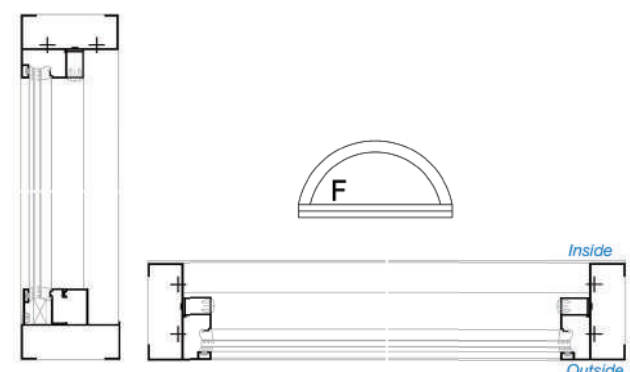
Relief

Isobaric System is adopted as water tightness improvement, and drain valve is no longer required.

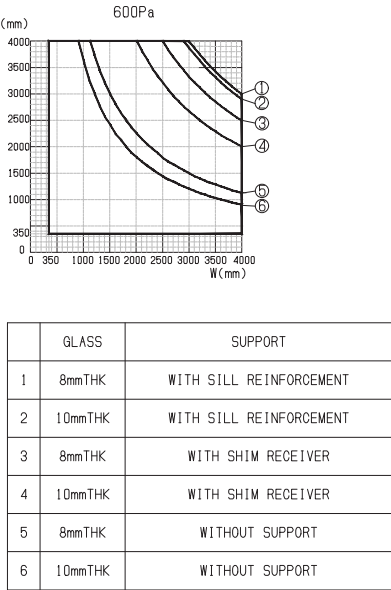


Flat & Round Design

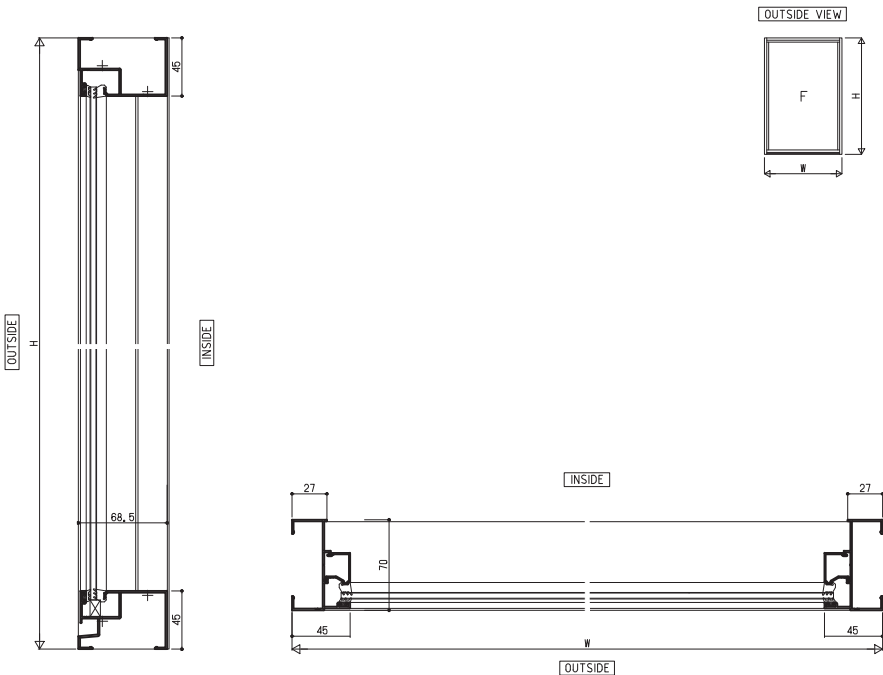
Flat design for simple set-up. Advanced design for better function.



FIX square glass groove 14 mm

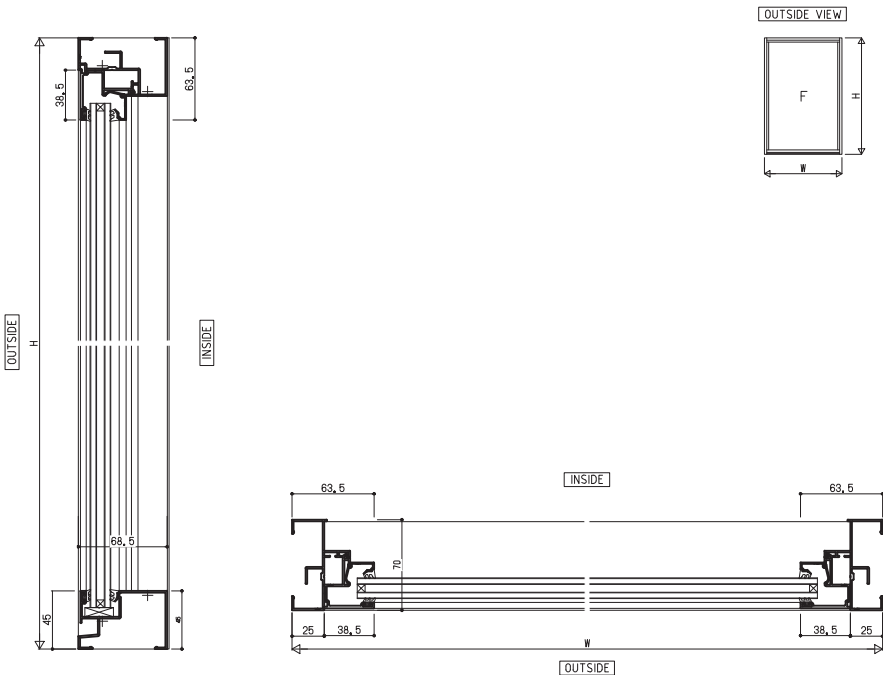
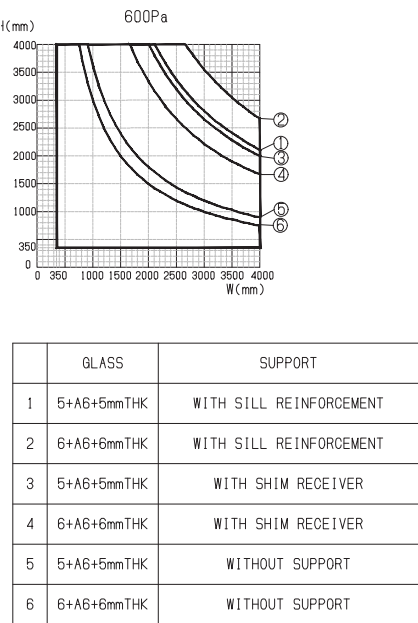


FIX square 14 mm



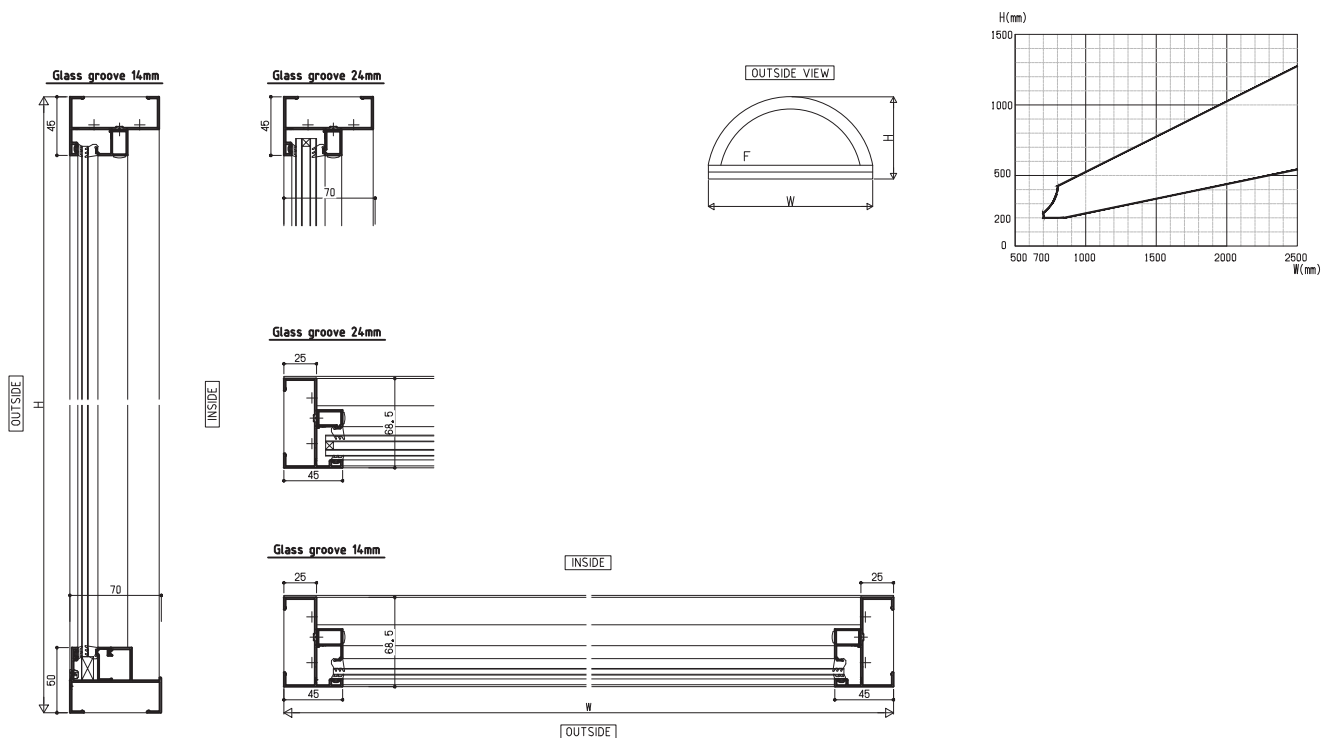
FIX square 24 mm

FIX square glass groove 24 mm



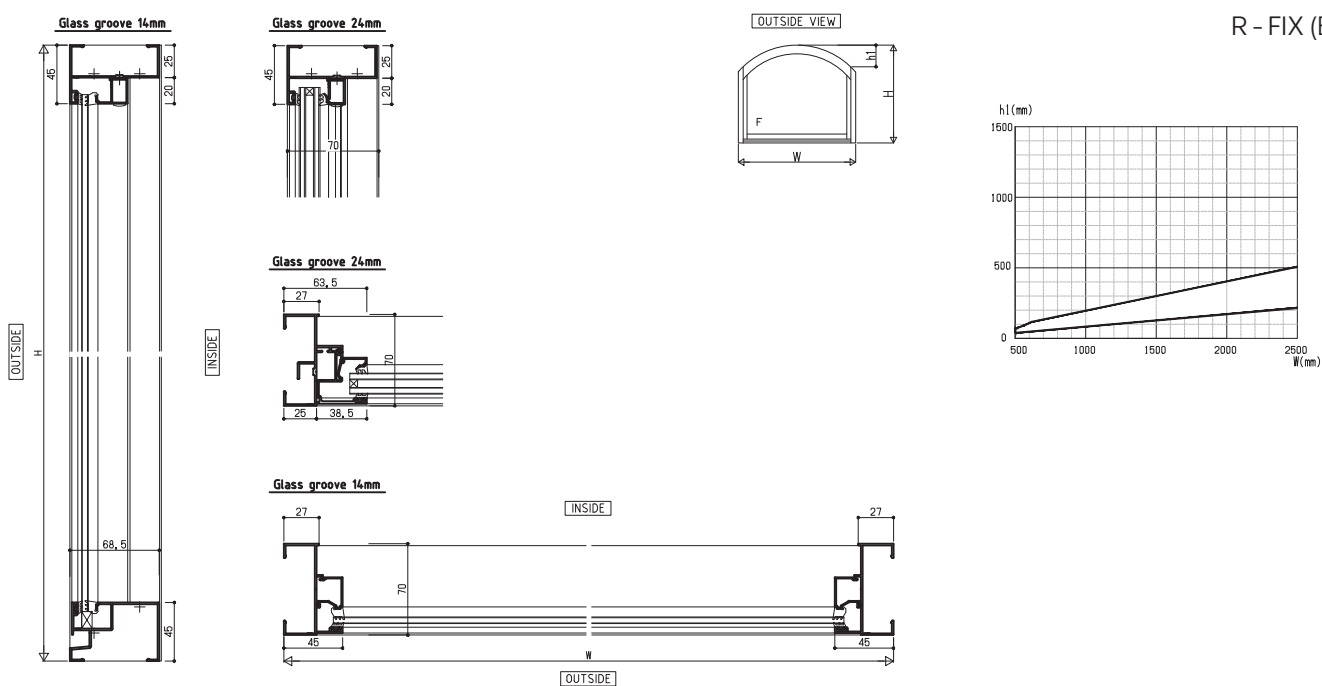
R - FIX (A)

R - FIX (A)

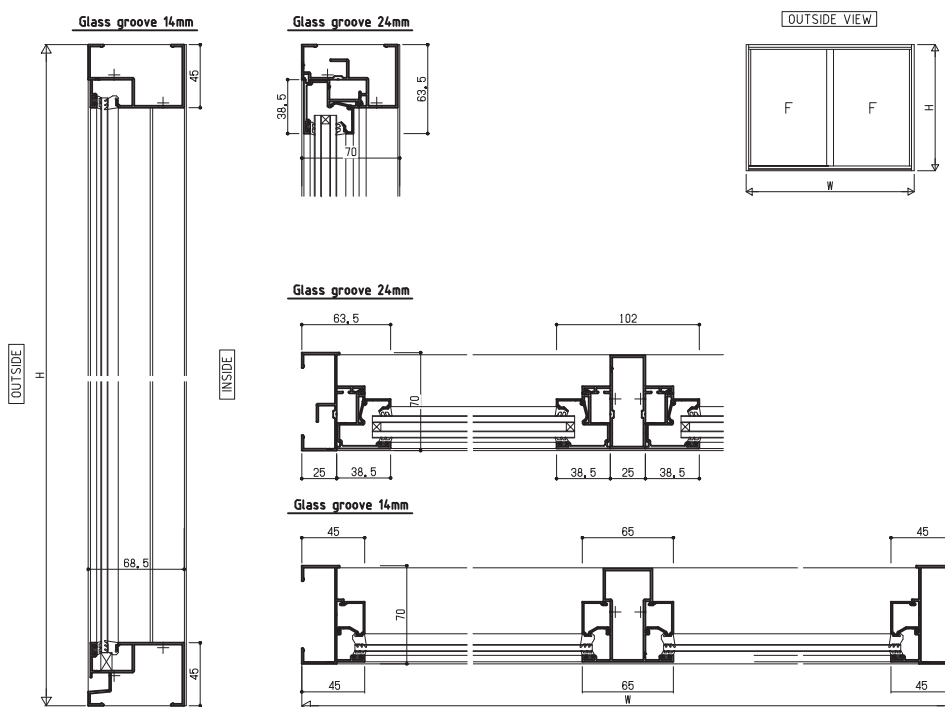
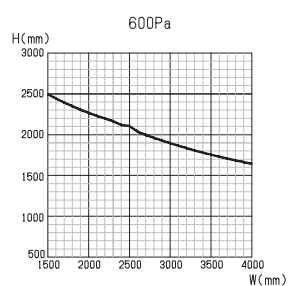


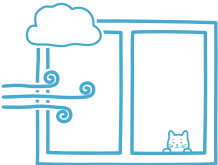
R - FIX (B)

R - FIX (B)



Fix - Fix with Muntin





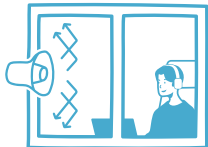
Structural (Wind Load)
600 Pa
Deflection
L/100



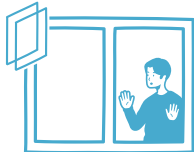
Water Tightness
A,B Type 350 Pa
LS Type 200 Pa



Air Infiltration
Grade A - 4(JIS)



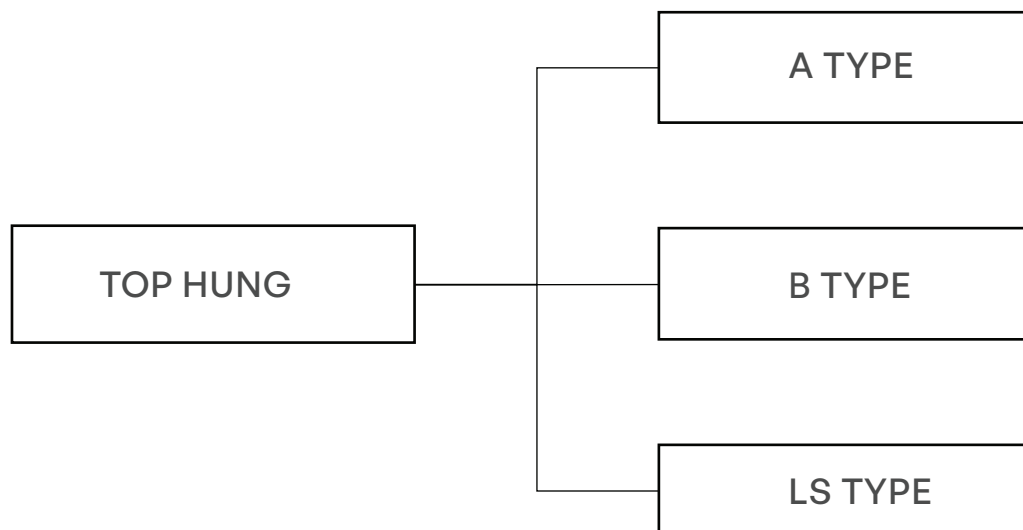
Sound Insulation
T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw 24 - 30 (ISO)



Double Glazing

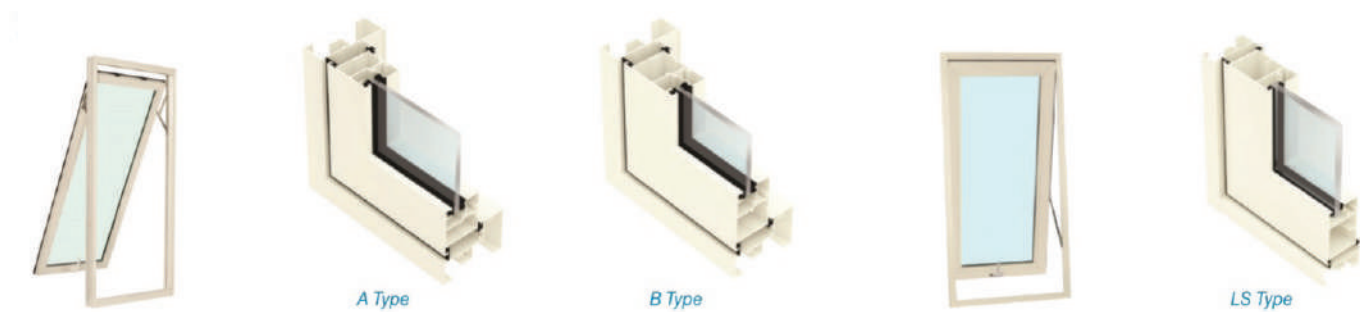

TOP HUNG

PRODUCT DIAGRAM

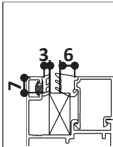
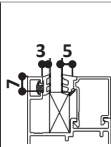
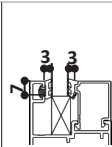
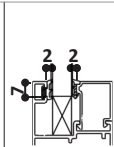
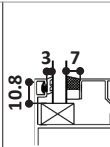
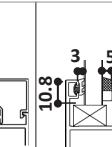
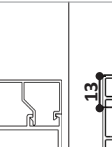
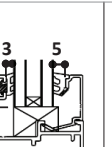
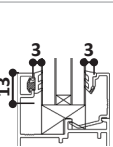


VARIATION

A, B, LS TYPE



GLASS THICKNESS MATRIX & GASKET MATRIX

		Glass & Gasket Type								
										
Glass Groove		14				18		24		26
Glass Thickness		5	6	8	10	8	10	5+A6+5	6+A6+6	6+A6+6
A-Type		●	●	●	●					
B-Type		●	●	●	●			●	●	
LS-Type						●	●			●
Gasket Number	Out	2K-22277				2K-23422	2K-22277			
	In	9K-20523	2K-22973	2K-22975	3K-27077	Sealant		2K-22973	2K-22975	Sealant

● Available










TOP HUNG

INSECT SCREEN MATRIX

Insect Screen Type	
Screen Type	Vertical Slide
A-Type	●
B-Type	●
LS-Type	

● Available

PARTS MATRIX

	Standard						Optional		
									
Item	Cam latch Handle	Multipoint Handle	Friction Stay	Arm Stopper	6 Step Arm Stopper	Hinge	Cam latch Handle (Metal)	Multipoint Handle (Metal)	6 Step Arm Stopper
A-Type	●		●	●			●		●
B-Type	●	●	●	●			●	●	●
LS-Type		●			●	●		●	
Color	DG,YW	DG,YW	YS	YS	YS	YK,YW	DG,YW	DG,YW	YS
Parts Number	2K-33878	2K-38869 2K-38872	4K-14211 4K-14212 4K-14214 4K-14216	9K-11113	9K-11126	3K-17747	5K-12993	5K-12994	9K-11126

● Available

DG=Black, YW=White, YK=Black, YS=Silver

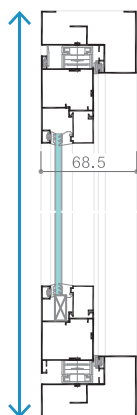
TOP HUNG

FEATURES

Design

• Flat Design

The glass is flat aligned with front side of window.



Operability

• Handle

The window panes can be closed perfectly for your safety.



*Multipoint Lock Handle
[70: B Type and 70LS: LS Type]*



*Cam Latch Handle
[70: A and B Type]*

Safety

• Arm Stopper

When the window is open wide, the stopper is set up to prevent the window from flapping in strong wind.



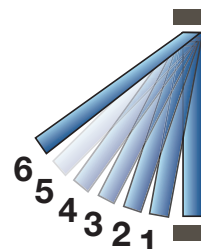
• Friction Stay

Friction stay is set as standard for safety



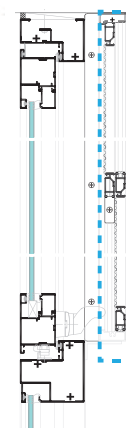
• 6 Step Arm Stopper A & B Type (Option)

Enable to adjust the opening angle 6 levels to control the air flowing.



Double Hung (Vertical) Insect Screen

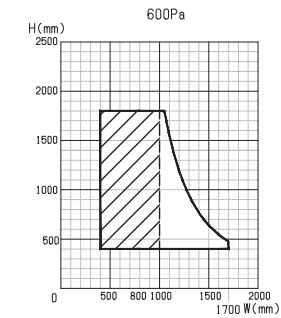
Possible to install Double Hung (Vertical Slide) Insect Screen to get both air ventilation and insect prevention. Installation works either way directly to wall or at the sash frame.



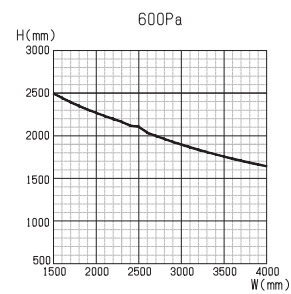
This insect screen can also be use for Casement

A - Type

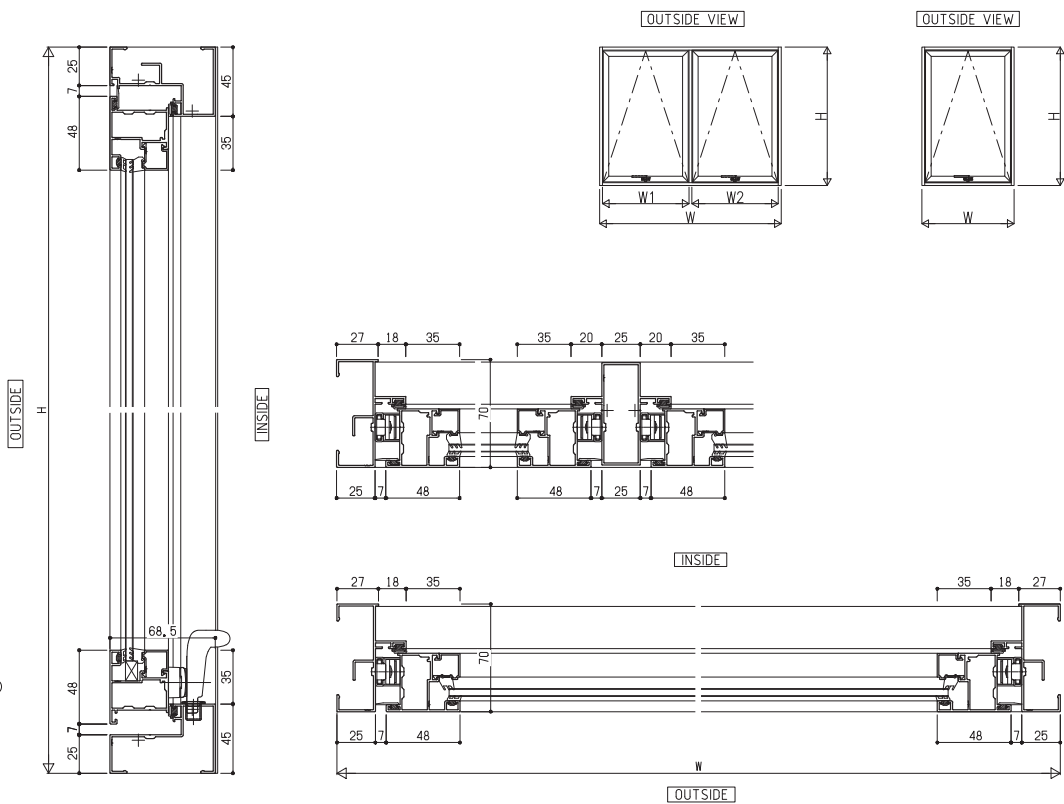
A - Type



TH-TH A - Type with MUNTIN

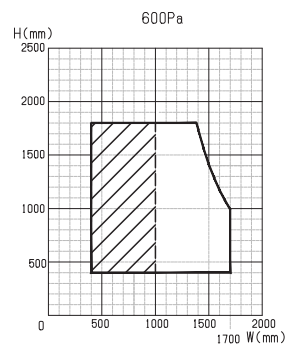


Hatched area can't install safety stopper

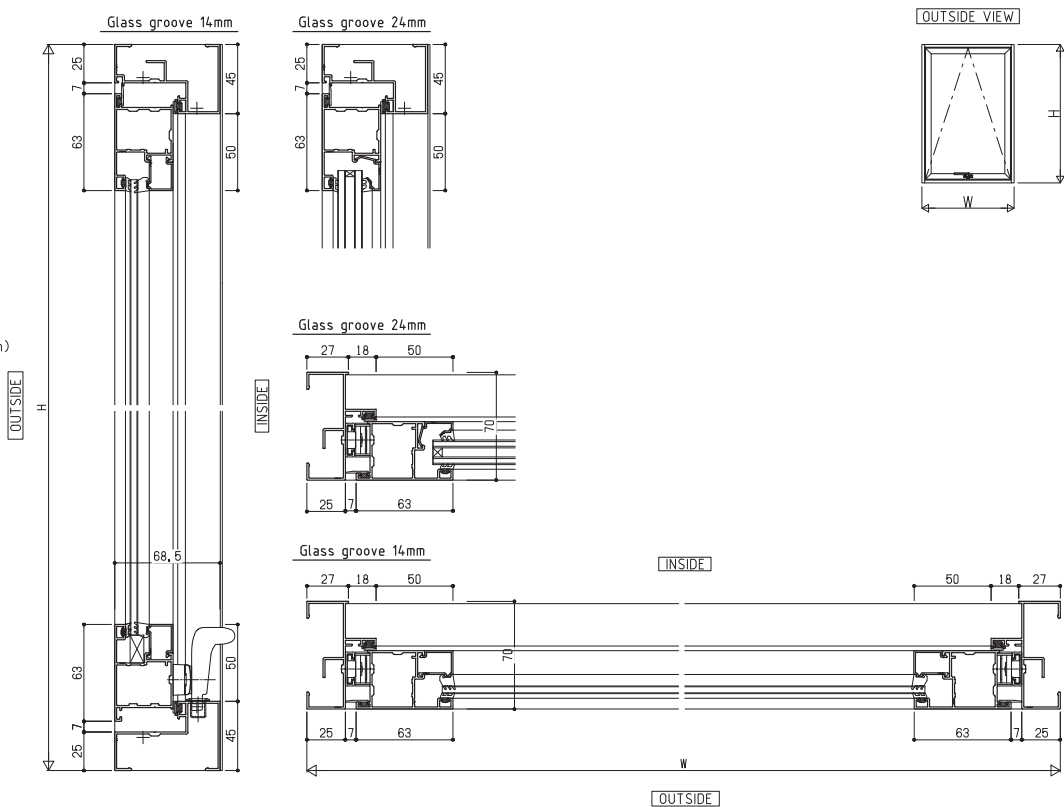


B - Type Camlatch Single

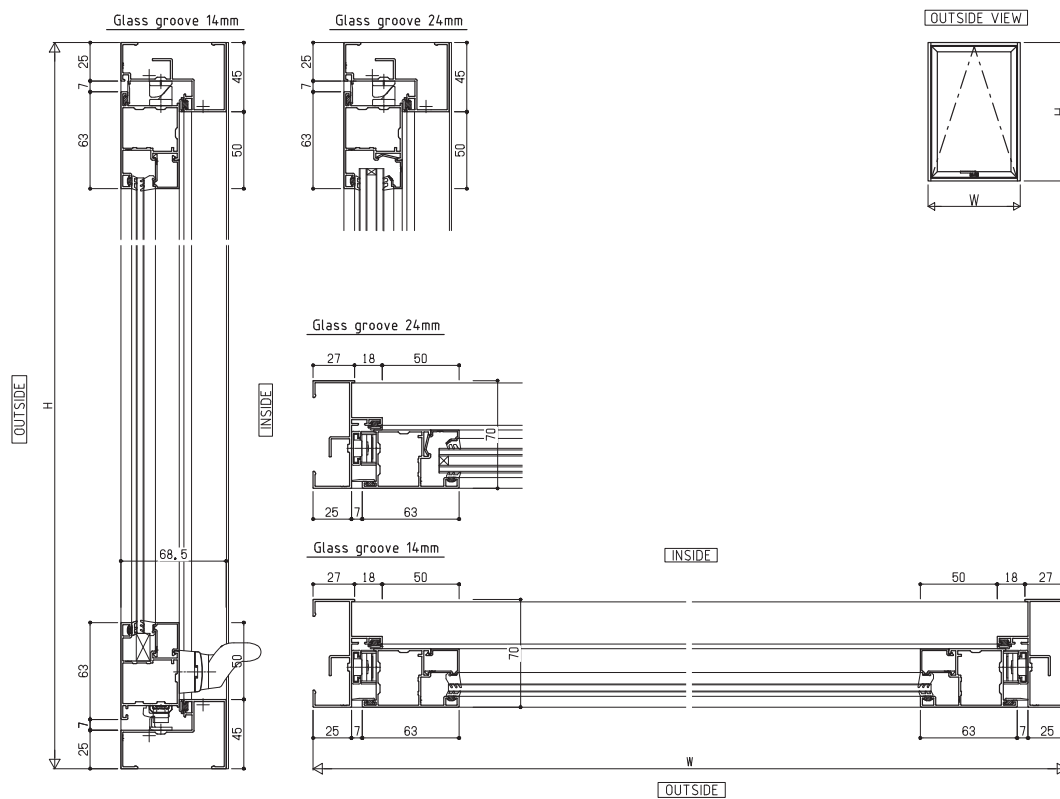
B-Type Camlatch



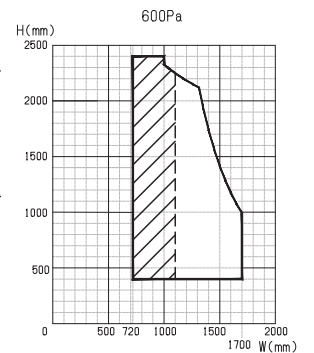
Hatched area can't install safety stopper



B - Type Multipoint

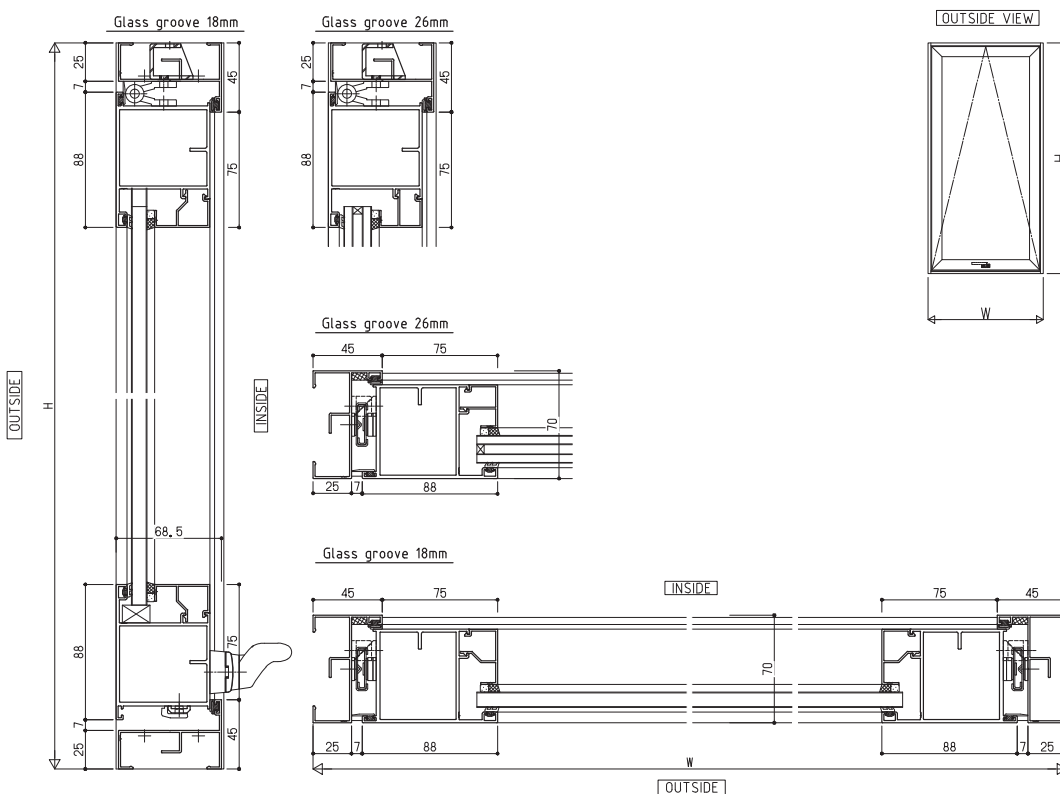


B Type - Multipoint

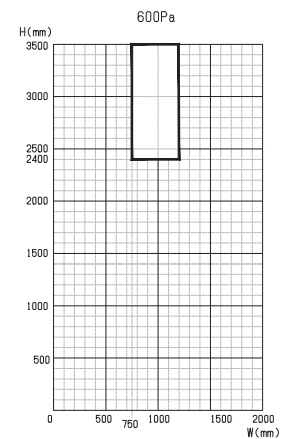


Hatched area can't install safety stopper

LS - Type

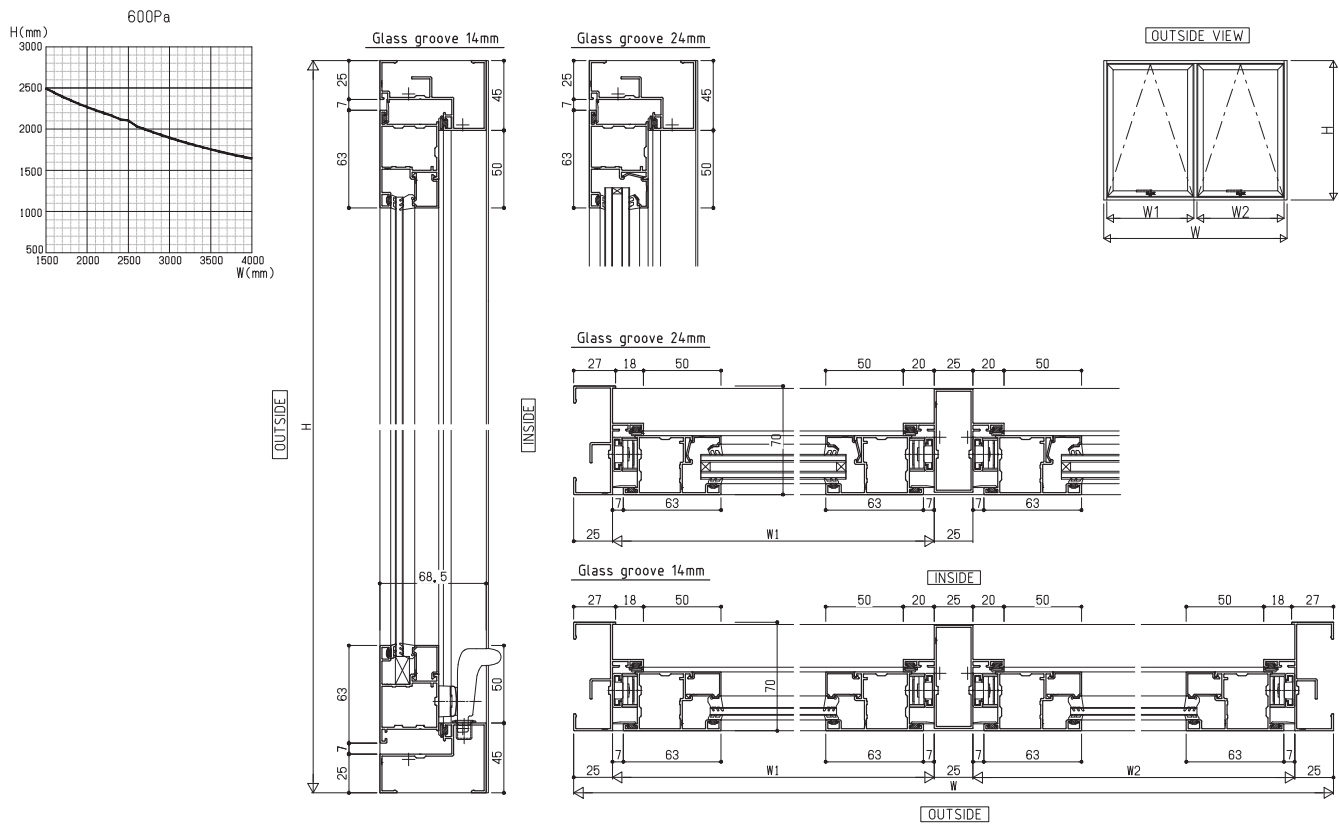


LS - Type

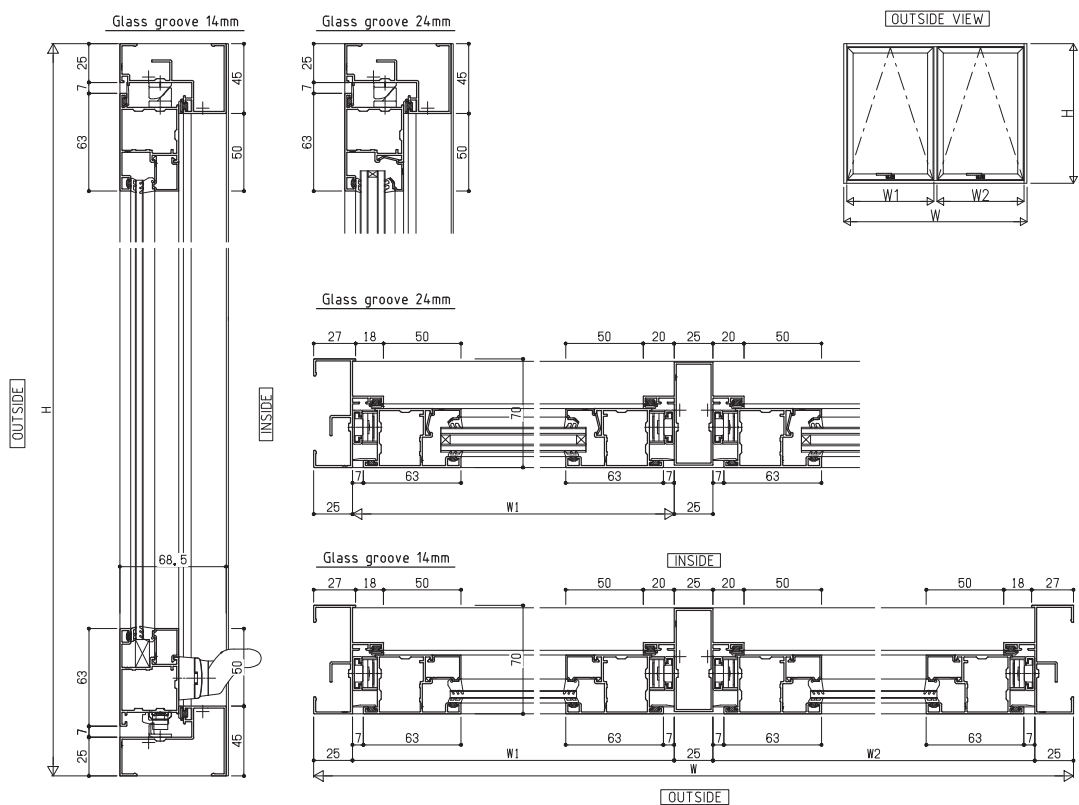


TH - TH B - Type Camlatch with Muntin

TH - TH B - Type with Muntin

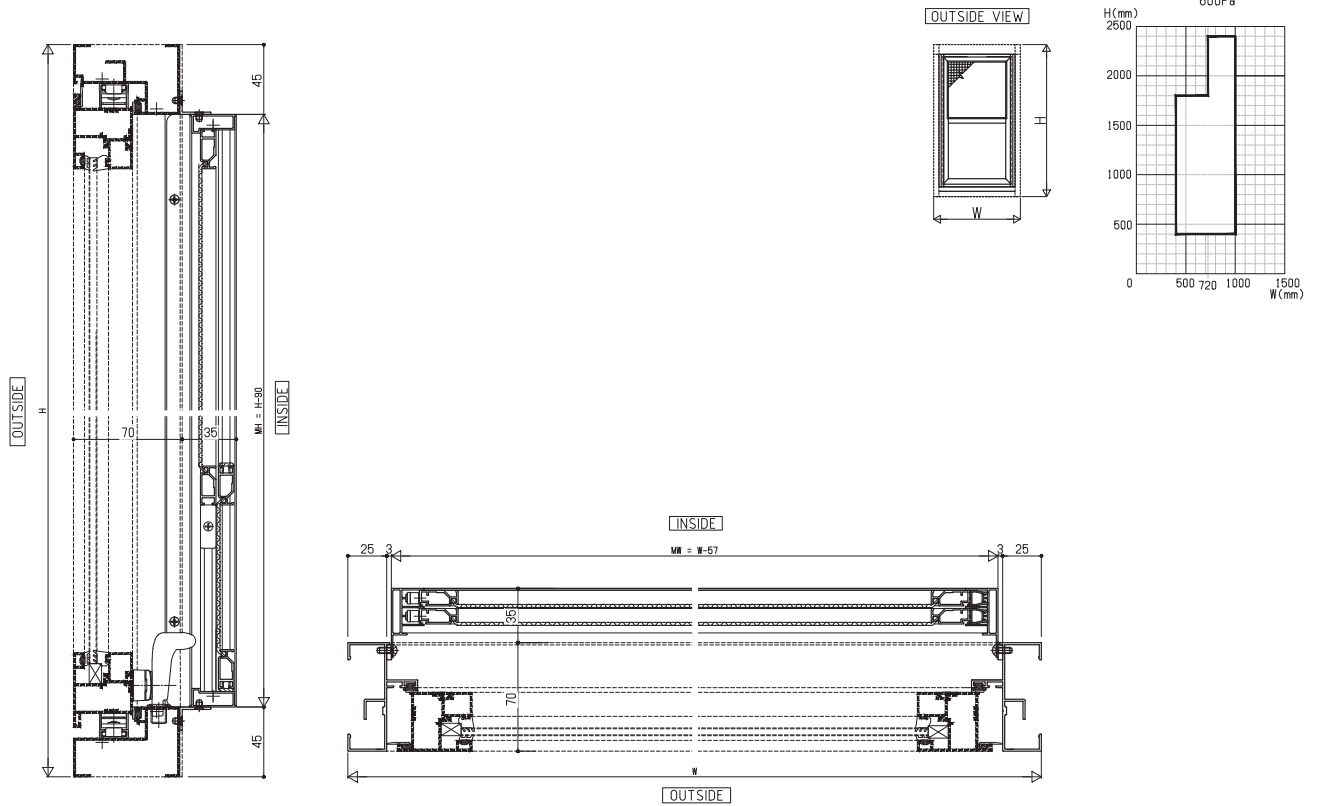


TH - TH B - Type Multipoint with Muntin

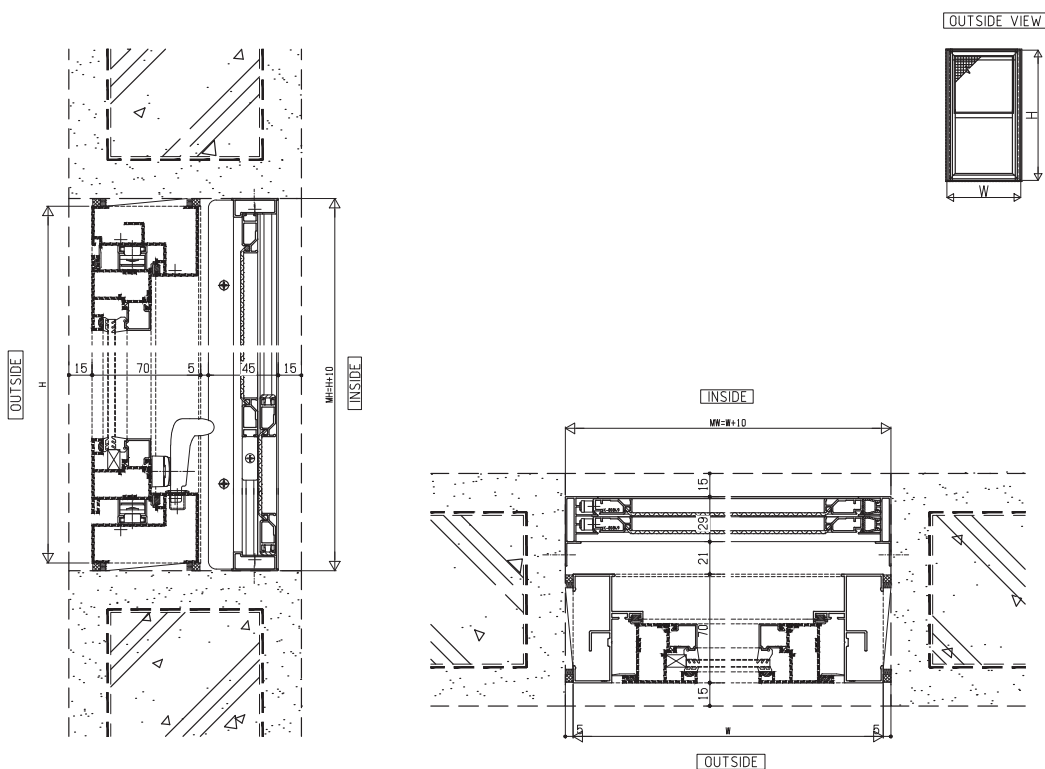


Insect Screen - Vertical Sliding on Frame

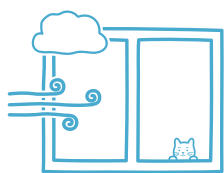
TH Single Insect Screen



Insect Screen - Vertical Sliding on Wall



HIGH VENTILATION WINDOW



Structural (Wind Load)

600 Pa
Deflection
L/100



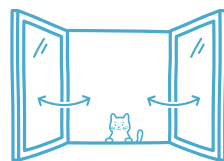
Water Tightness

75 Pa



Air Infiltration

Grade A - 4(JIS)



Open-close Test

30,000 cycle
depends on item

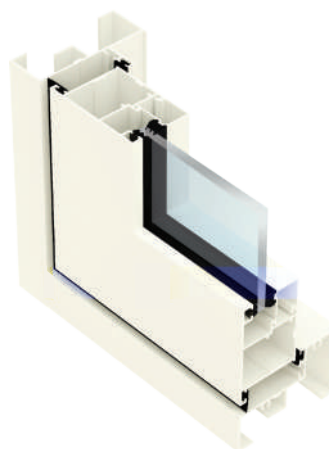
HIGH VENTILATION WINDOW

PRODUCT DIAGRAM



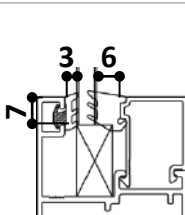
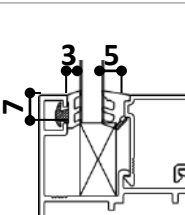
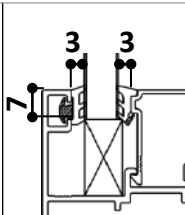
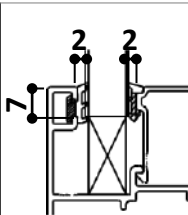
VARIATION

A TYPE ONLY



HIGH VENTILATION WINDOW

GLASS THICKNESS MATRIX & GASKET MATRIX

Glass & Gasket Type					
					
Glass Groove		14			
Glass Thickness		5	6	8	10
A-Type		●	●	●	●
Gasket Number	Out	2K-22277			2K-23422
	In	9K-20523	2K-22973	2K-22975	3K-27077

● Available



HIGH VENTILATION WINDOW

INSECT SCREEN MATRIX

Insect Screen Type	
Screen Type	Fix
A-Type	●

● Available

PARTS MATRIX

Standard		
		
Item	Loopless	Manual Operator Handle
A-Type	●	●
Color	DG, YW	DG, YW
Parts Number	9K-11150	9K-11151

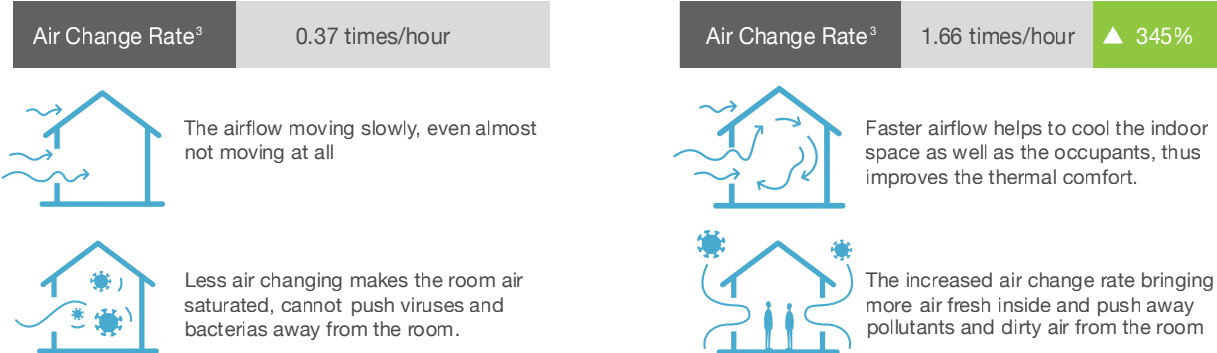
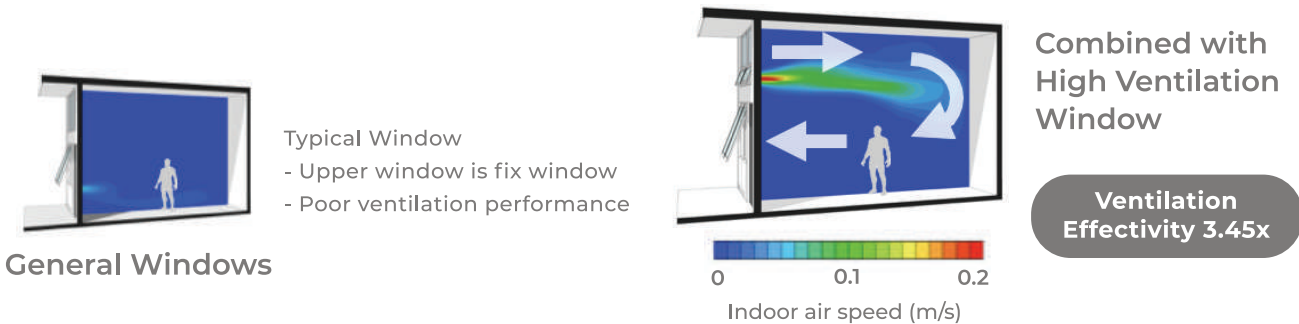
● Available

DG=Black, YW=White

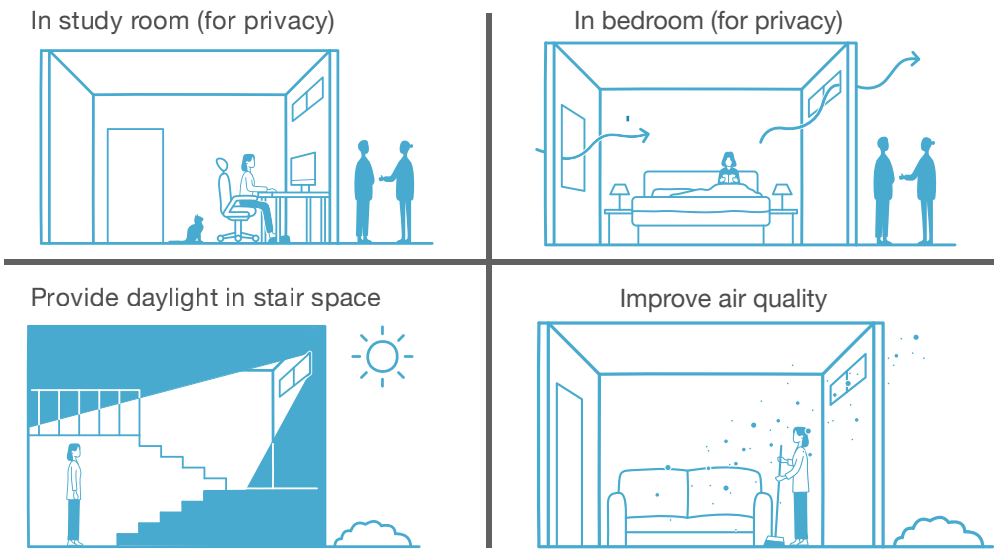
HIGH VENTILATION WINDOW

ENHANCE VENTILATION, CREATE WELLNESS AT YOUR HOME

Through YKK AP's research and development, we ensure that the high ventilation window provides optimum benefits to our customer. The operable window at high position can increase the ventilation performance by up to three times higher if compared with non-operable one.



VARIOUS APPLICATIONS OF HIGH VENTILATION WINDOW IN YOUR BUILDING



※ notes :

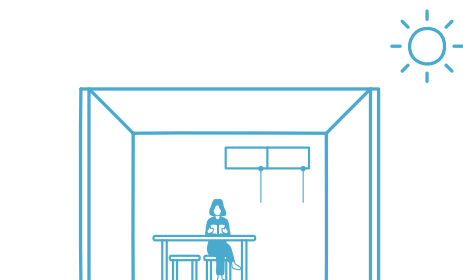
1. The performance verification for NEXSTA High Ventilation Window was supported by YKK AP R&D Center (Indonesia).
2. Outdoor wind speed of 2 m/s represents the average wind speed during the daytime in most cities in Indonesia.
3. Air change rate or ventilation rate, is a measure of the number of air changes that occur within one hour in a room.

HIGH VENTILATION WINDOW

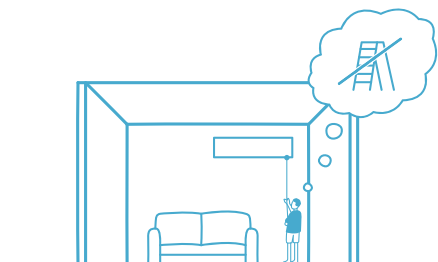
**EASIER TO OPERATE AND SAFER FOR YOUR LOVABLE ONES
WITH OUR SPECIAL PARTS**

PRODUCT VARIATION :

I. Loopless Chain Type



The high position window makes your room more spacious and brighter.

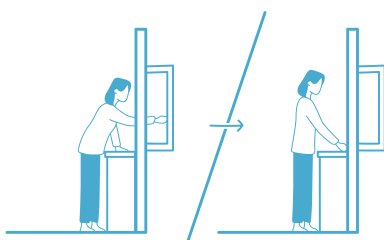


A common high-position window is difficult to open or close due to its unreachable position. The loopless chain system provides easier and safer window operation



Adjustable wire length up to 3.5m

II. Operator Handle Type



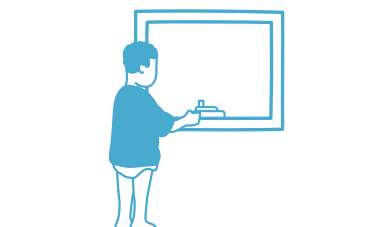
Easy And Safe

Even in the hard to reach places the operation is easy



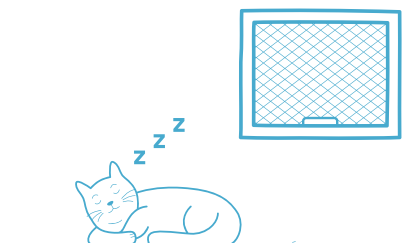
Easy to Operate

The direction of rotation differs depending on the opening



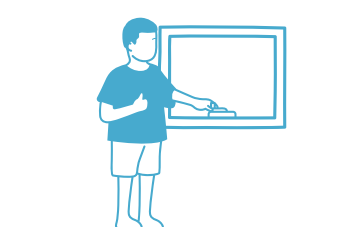
Safe For Kids

It is safe for children, no helper needed



Free From Insect (Optional)

The window can be opened and closed without opening the attached insect screen

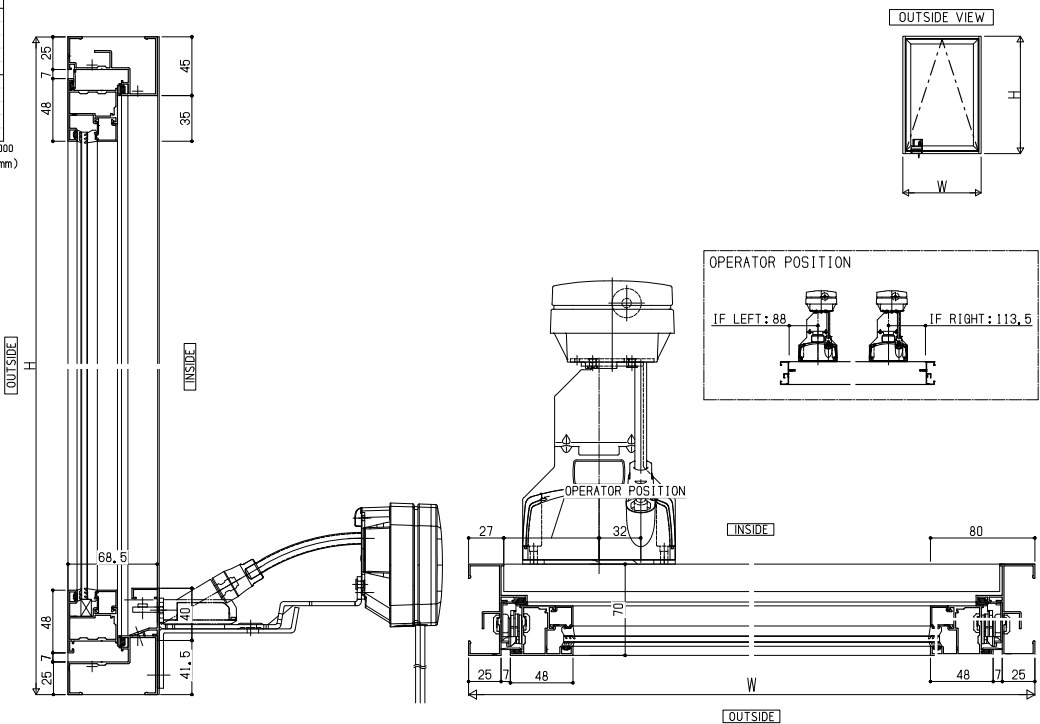
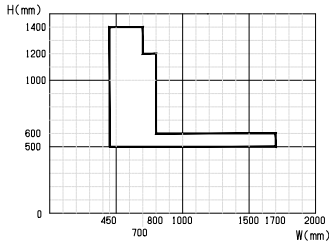


Easy to Operate

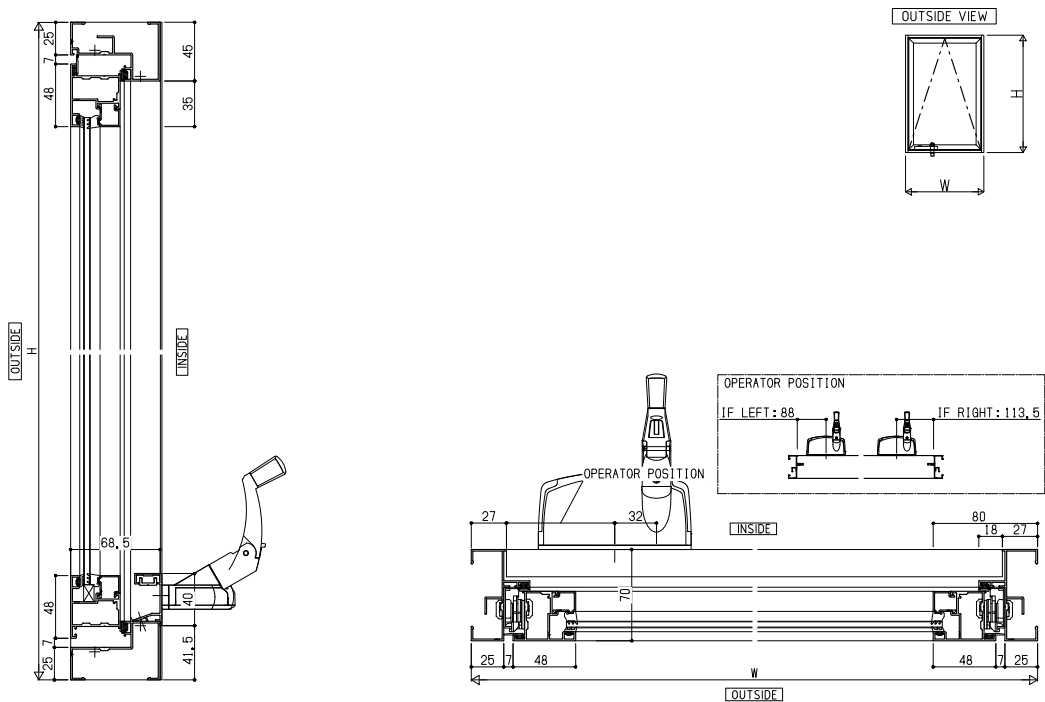
It is easy for children to operate

System Drawing & Size Limitation

Loopless



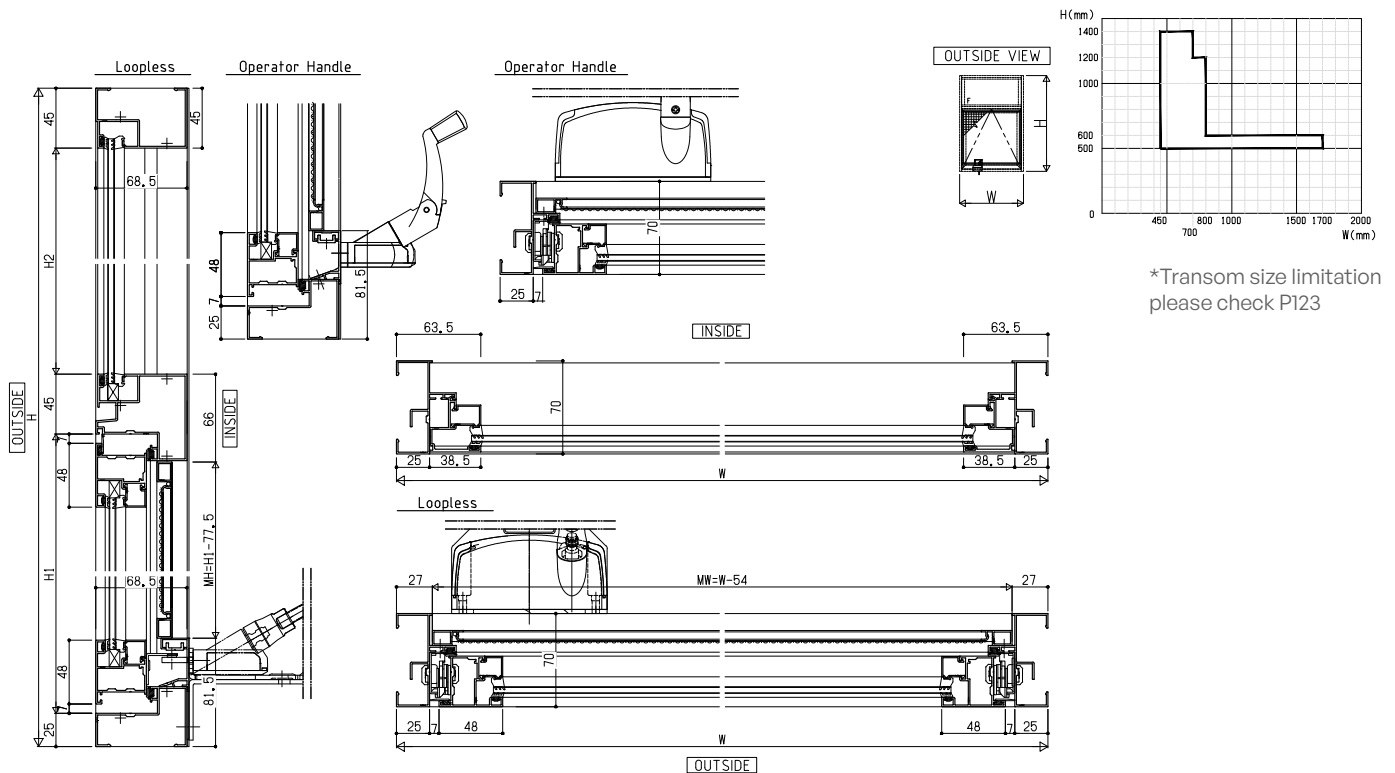
Operator Handle



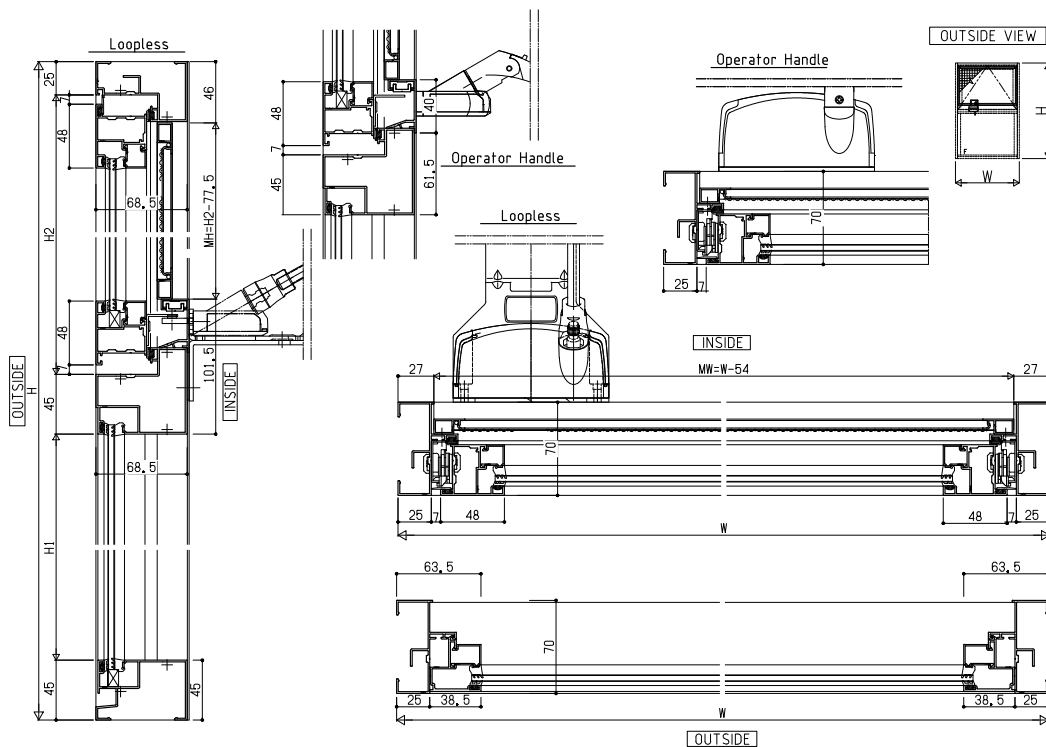
HIGH VENTILATION WINDOW

System Drawing & Size Limitation Insect Screen (Optional)

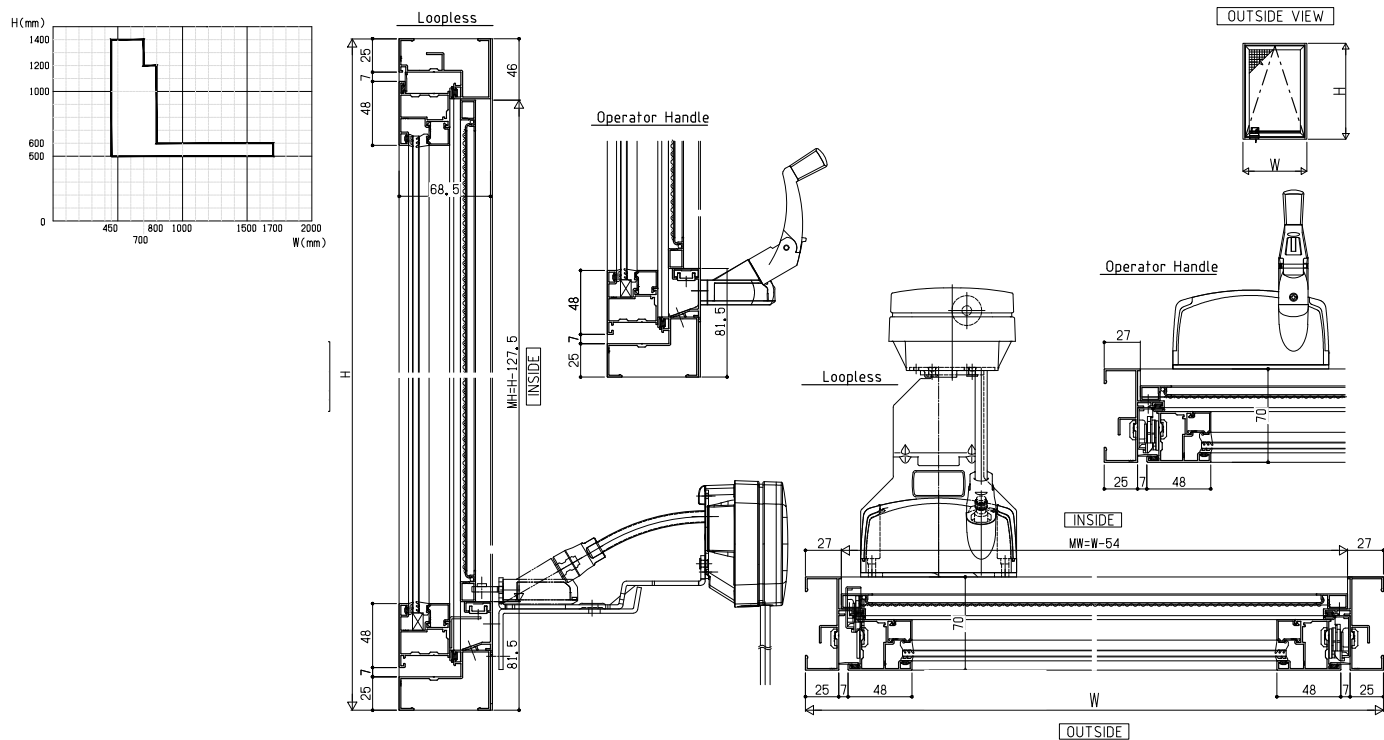
Insect Screen FIX / TH



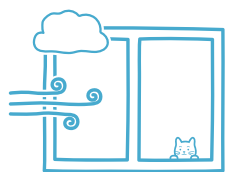
Insect Screen TH / FIX



Insect Screen TH



CASEMENT



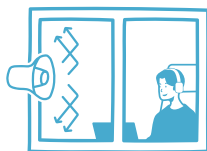
Structural (Wind Load)
600 Pa
Deflection
L/100



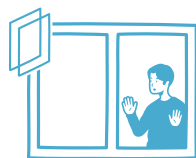
Water Tightness
350 pa



Air Infiltration
Grade A - 4(JIS)



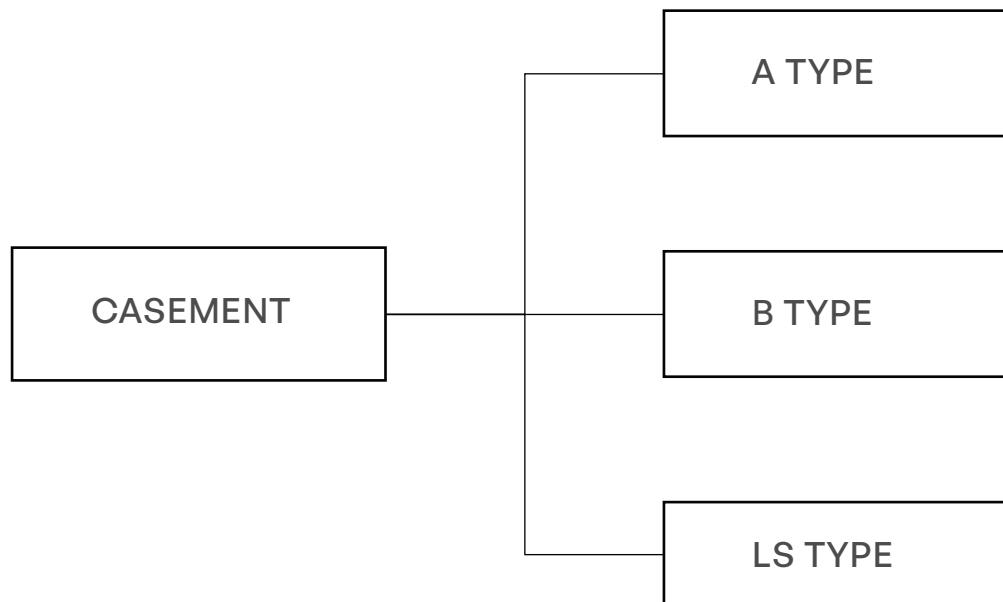
Sound Insulation
T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)



Double Glazing


CASEMENT

PRODUCT DIAGRAM



VARIATION

Single Swing

(Right Hand / Left Hand)



Double Swing



GLASS THICKNESS & GASKET MATRIX

Glass & Gasket Type										
Glass Groove		14				18		24		26
Glass Thickness		5	6	8	10	8	10	5+A6+5	6+A6+6	6+A6+6
A-Type		●	●	●	●					
B-Type		●	●	●	●			●	●	
LS-Type						●	●			●
Gasket Number	Out	2K-22277			2K-23422	2K-22277				
	In	9K-20523	2K-22973	2K-22975	3K-27077	Sealant		2K-22973	2K-22975	Sealant

● Available









CASEMENT

INSECT SCREEN MATRIX

Insect Screen Type	
Screen Type	Vertical Slide
A-Type	●
B-Type	●
LS-Type	

● Available

PARTS MATRIX

	Standard						Optional	
								
Item	Cam latch Handle	Multipoint Handle	Friction Stay	Safety Stopper	Hinge	Flushbolt	Cam latch Handle (Metal)	Multipoint Handle (Metal)
A-Type	●		●	●		●	●	
B-Type	●	●	●	●		●	●	●
LS-Type		●		●	●	●		●
Color	DG, YW	DG, YW	YS	YS	YK, YW	YS	DG, YW	DG, YW
Parts Number	2K-33876/77	2K-38867/68 2K-38870/71	4K-14210 4K-12285 4K-12286 4K-15550	7K-10111	5K-19277/78 5K-19279/80	4K-10200/01	5K-12992 5K-12993 5K-12994	5K-12995

● Available

DG=Black, YW=White, YK=Black, YS=Silver

CASEMENT

FEATURES

Design

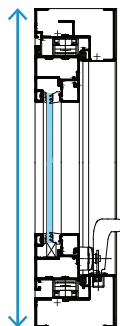
• Clear Design

Clear design with no muntin for Double Casement.



• Flat Design

The glass is flat aligned with front side of window frame.



Safety

• Safety Stopper

Safety stopper restricts the opening to less than 110 mm, to avoid unexpected accidents by children.



Full-open position



Restricted-open position

Check label to use safety stopper



Press for restricted-open position

• Child Lock

Prevent children from releasing the safety stopper



Normal position



Child lock function

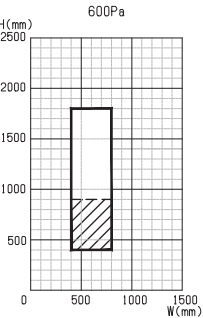
• Friction Stay

Enables the panel to be opened to 90°, cleaning the glass from indoor can be done easily and safely.

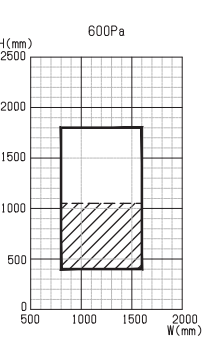


A - Type

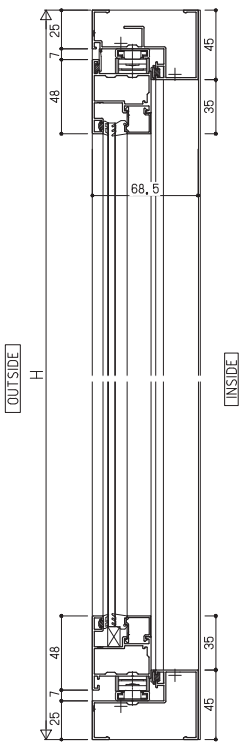
A - Type Single



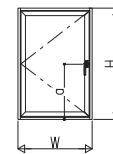
A - Type Double



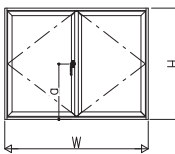
Hatched area can't install safety stopper



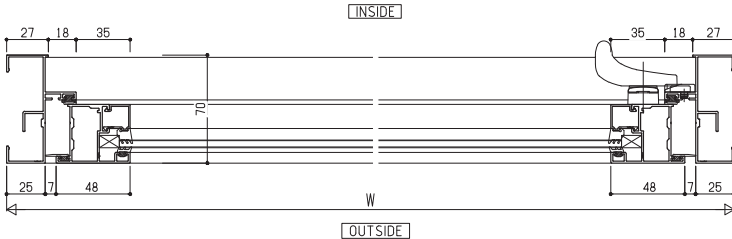
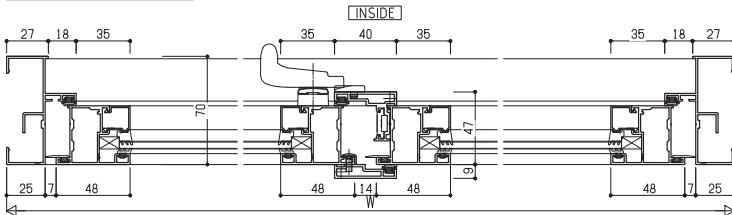
OUTSIDE VIEW



OUTSIDE VIEW

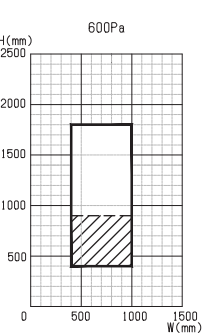


Double with single handle

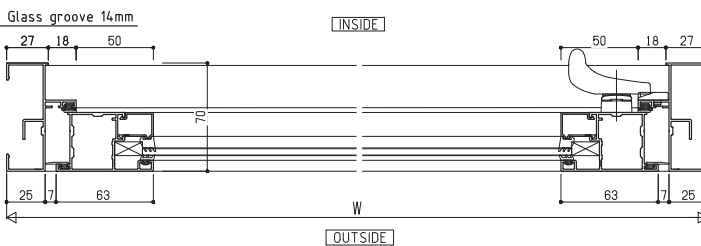
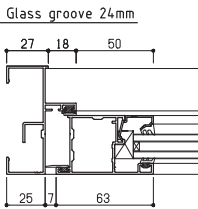
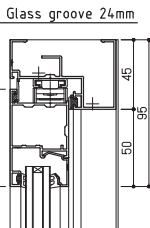
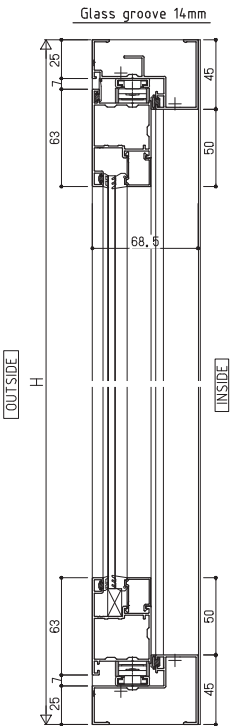


B - Type Camlatch Single

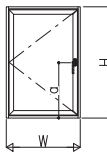
B - Type Camlatch Single



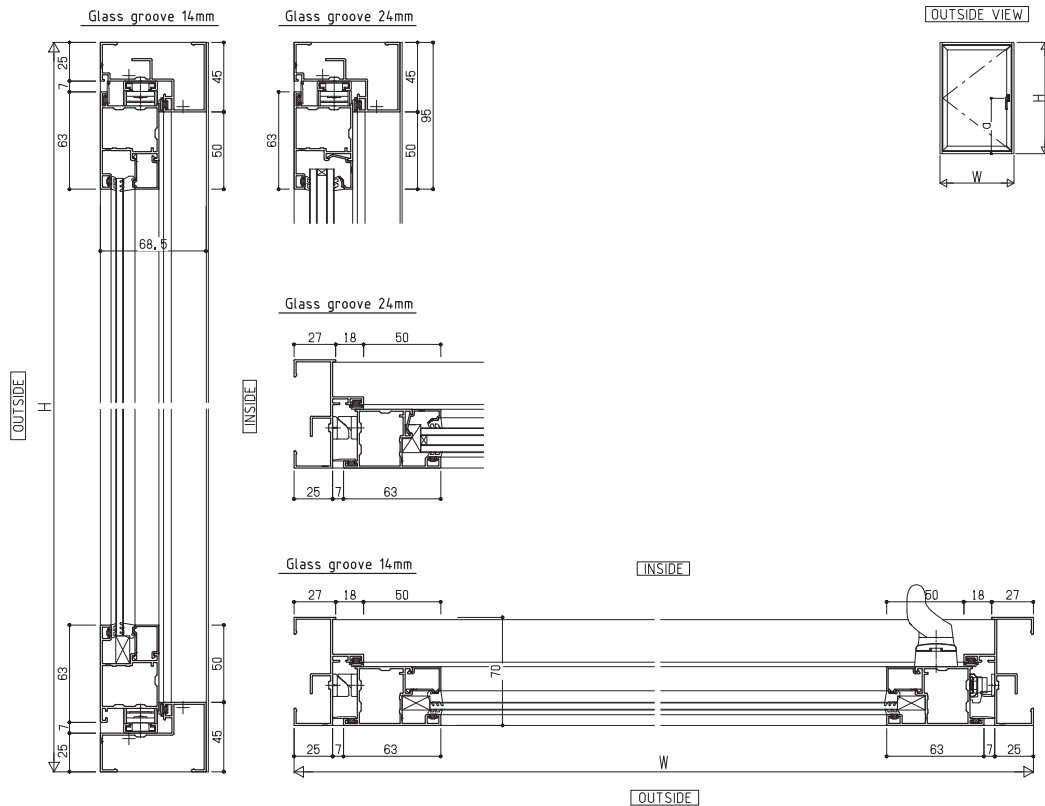
Hatched area can't install safety stopper



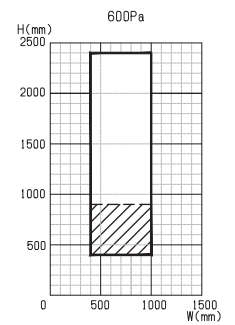
OUTSIDE VIEW



B Type - Multipoint

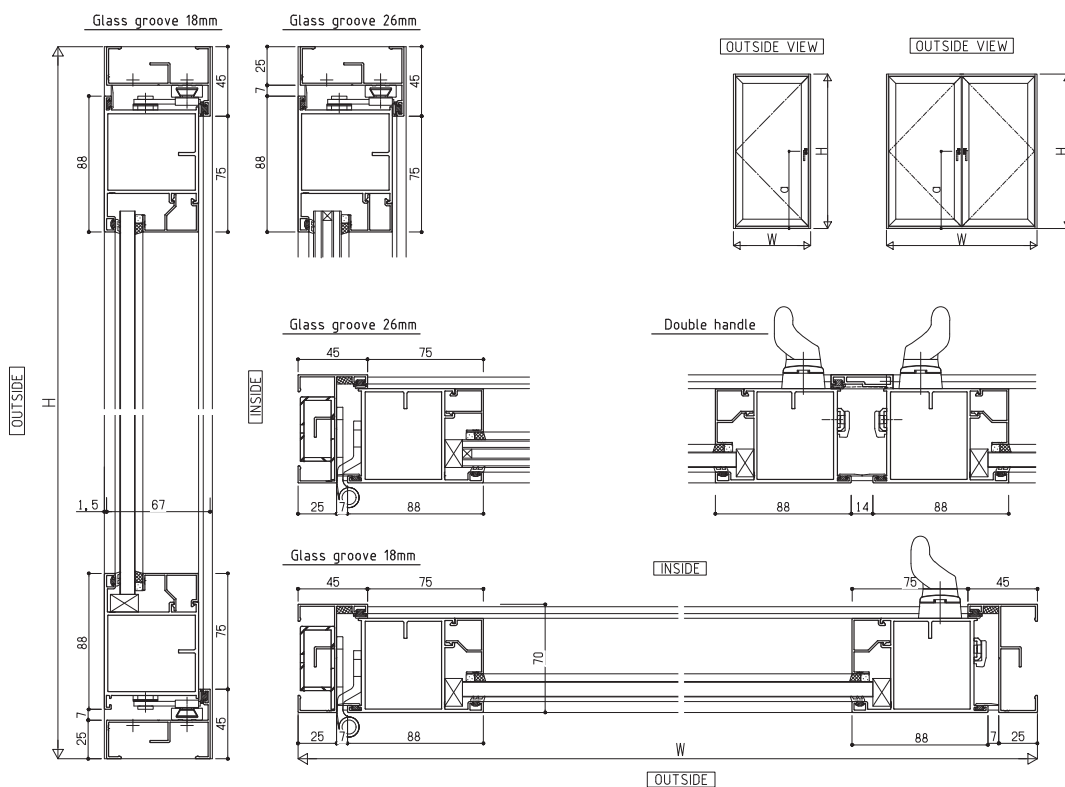


B Type - Multipoint Single

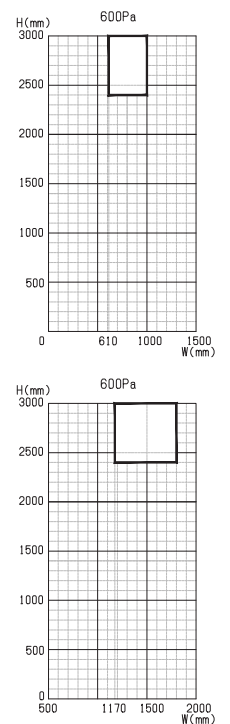


Hatched area can't install safety stopper

LS Type

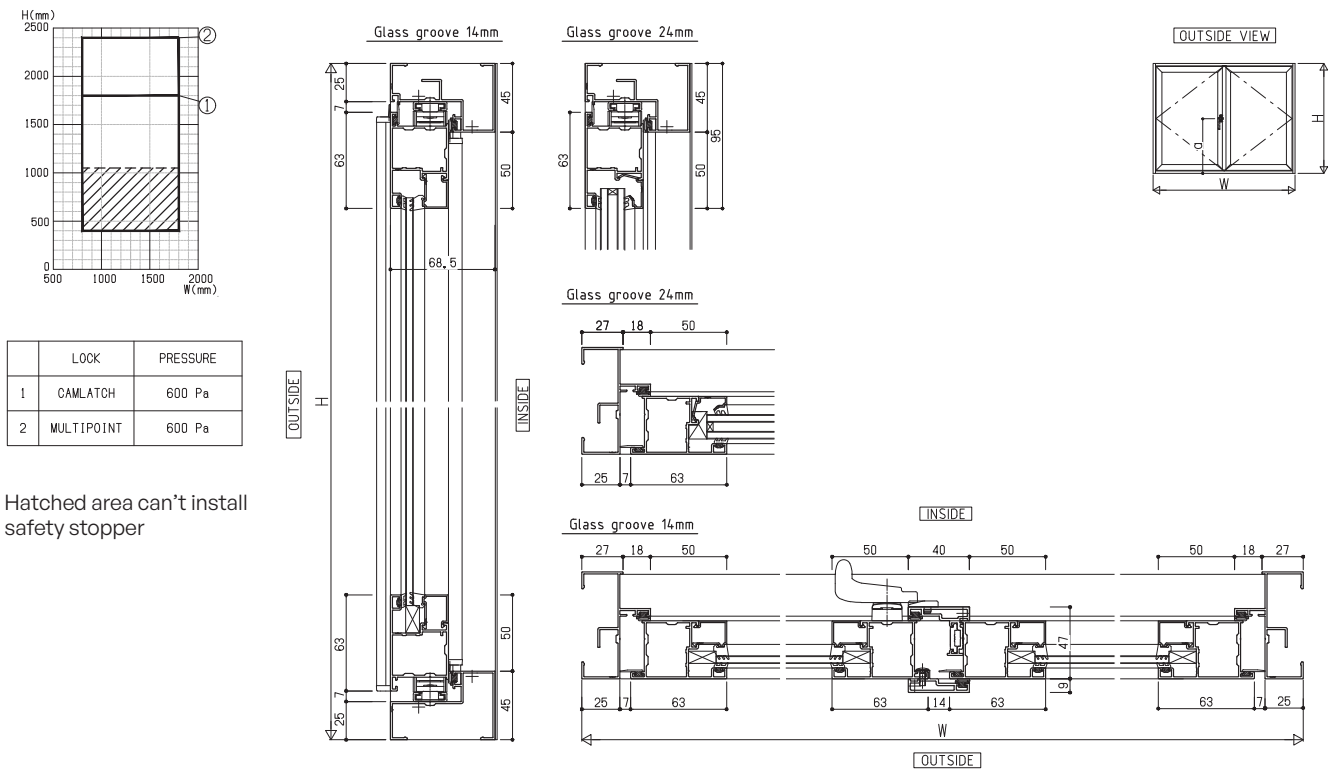


LS Type



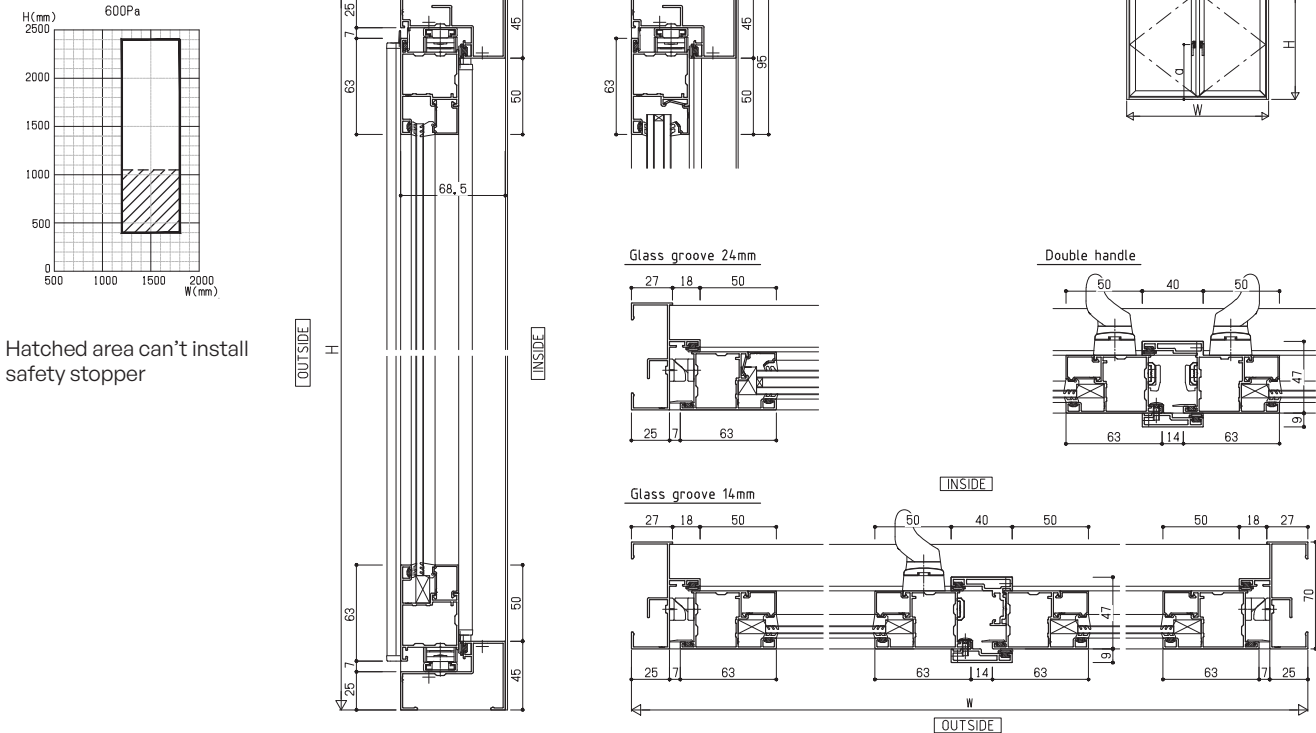
B Type Camlatch Double

B Type Camlatch & Multipoint Double
(Single Handle)

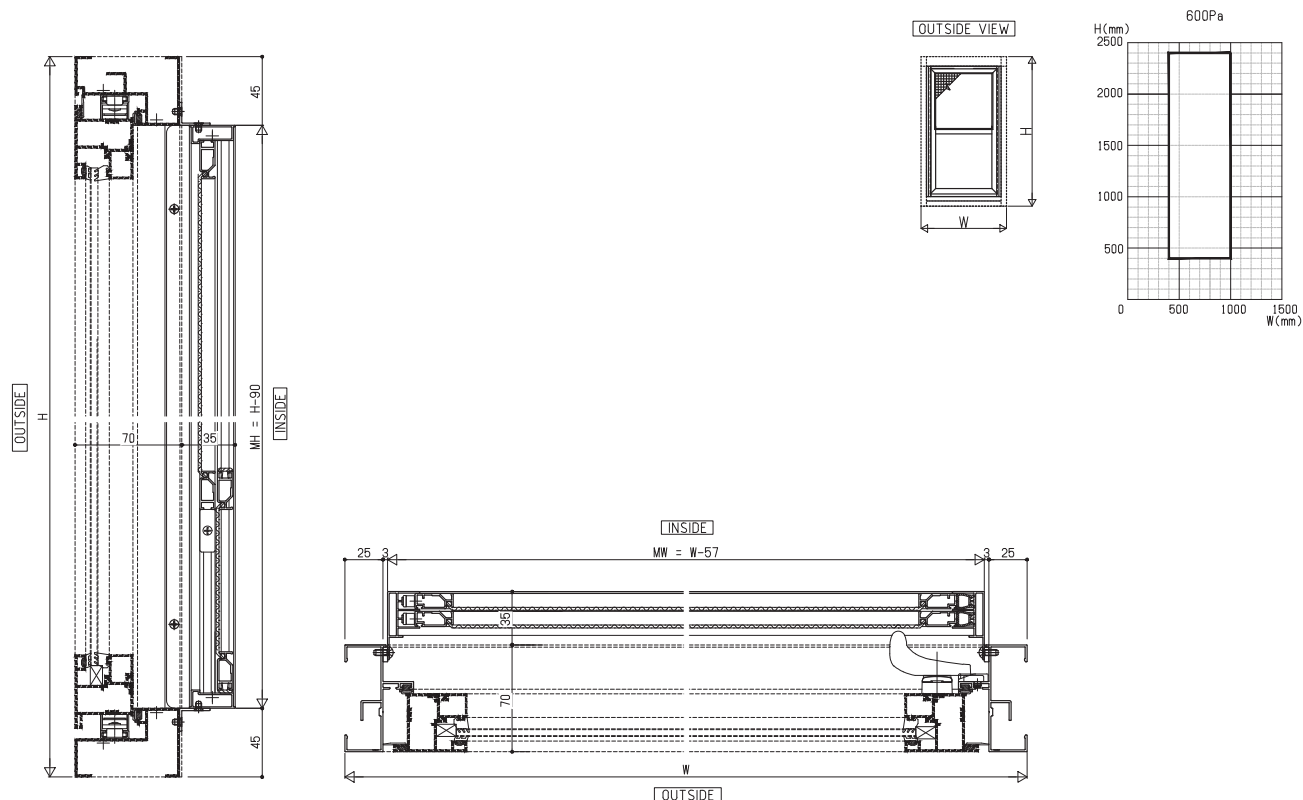


B Type Multipoint Double

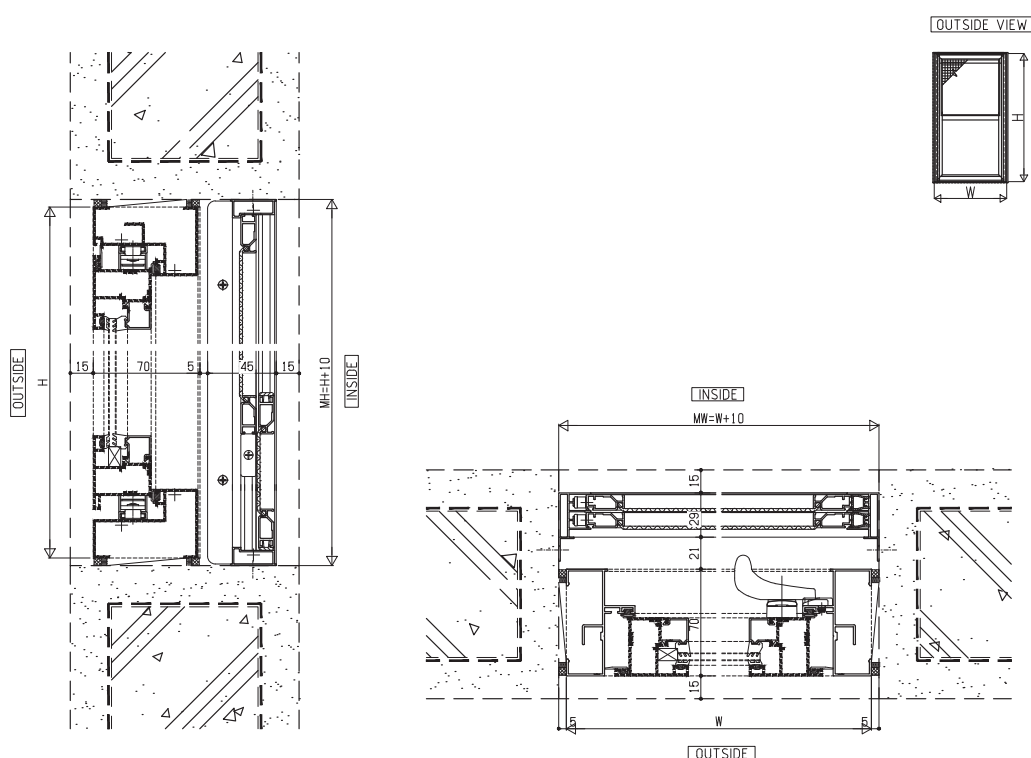
B Type Multipoint Double
(Double Handle)



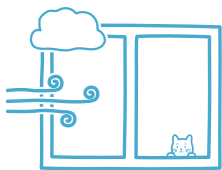
Insect Screen - Vertical Sliding on Frame



Insect Screen - Vertical Sliding on Wall



BUTT HINGED DOOR



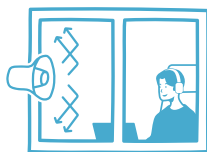
Structural (Wind Load)
600 Pa
Deflection
L/100



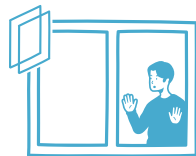
Water Tightness
150 pa



Air Infiltration
Grade A - 4(JIS)



Sound Insulation
T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)

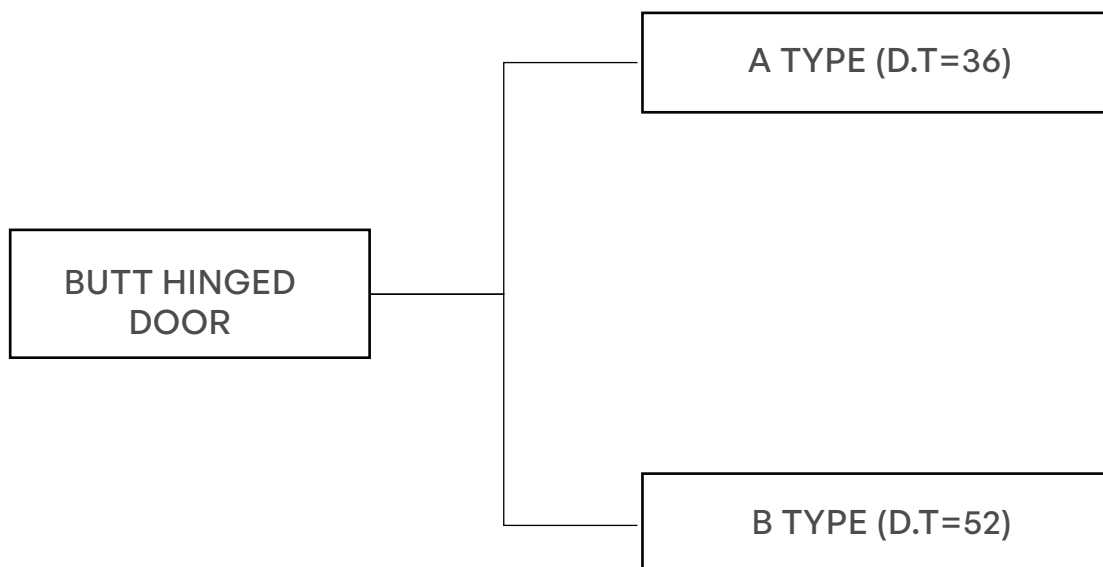


Double Glazing


**Without Bottom Sill" has no performance of Water Tightness,
Air Infiltration, and Sound Insulation.

BUTT HINGED DOOR

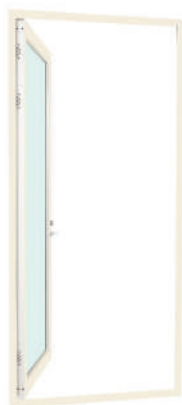
PRODUCT DIAGRAM



VARIATION

Single Swing

(Right Hand / Left Hand
Inswing / Outswing)



Double Swing

(Inswing / Outswing)



BUTT HINGED DOOR


GLASS THICKNESS & GASKET MATRIX

Glass & Gasket Type									
Glass Groove		14				18		24	
Glass Thickness		5	6	8	10	8	10	5+A6+5	6+A6+6
D.T=36		●	●	●	●			●	●
D.T=52						●	●		●
Gasket Number	Out	2K-22277			2K-23422	2K-22277			
	In	9K-20523	2K-22973	2K-22975	3K-27077	Sealant			

● Available

BUTT HINGED DOOR

PARTS MATRIX

	Standard									Optional
										
Item	Door Handle			Butt Hinge			Flushbolt		Safety Cap	Door Closer
D.T=36	●			●			●		●	●
D.T=52	●			●			●		●	●
Color	YS			DG, YW			DG		DG, YW	YK, YS
Parts Number	2K-13217U9-20-1/4	6K-10367U9-1/4	5K-19283U9-1/4	5K-19275/76	5K-19277/78	5K-19279/80	2K-30280		2K-38569/71/72 2K-38570/73/74 2K-38575	3K-12094/97 3K-12105

● Available

DG=Black, YW=White, YK=Black, YS=Silver

BUTT HINGED DOOR

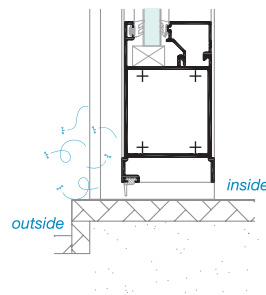
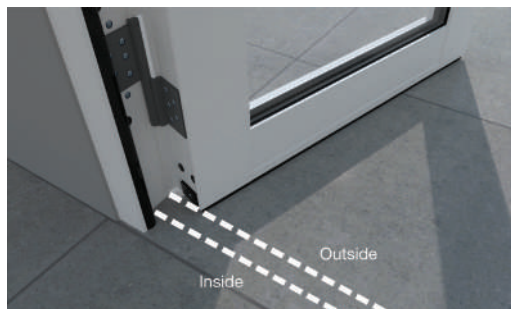
FEATURES

Reliable Performance

• Without Bottom Sill

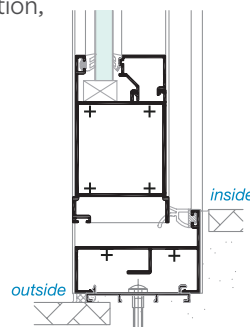
Can prevent you from insect and dust to come in.

*"Without Sill" has no performance of Water Tightness, Air Infiltration, and Sound Insulation.

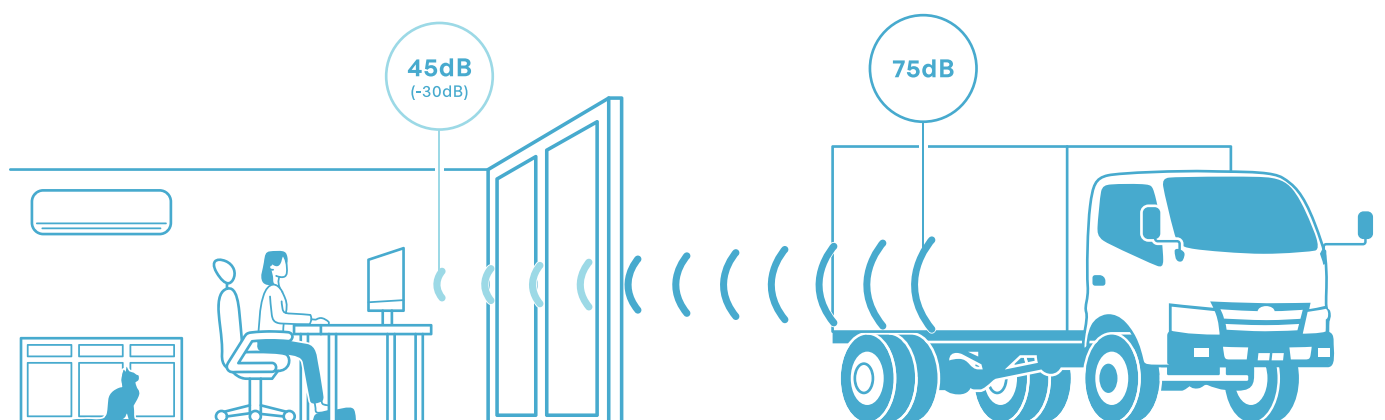


• Nexsta (with Bottom Sill)

Higher performance benefits such as water tightness, air infiltration, sound insulation, prevent insect and dust.

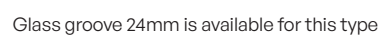


Reduce the noise 25 dB (T-1) or 30 dB (T-2)



System Drawing & Size Limitation

DT = 36 Single

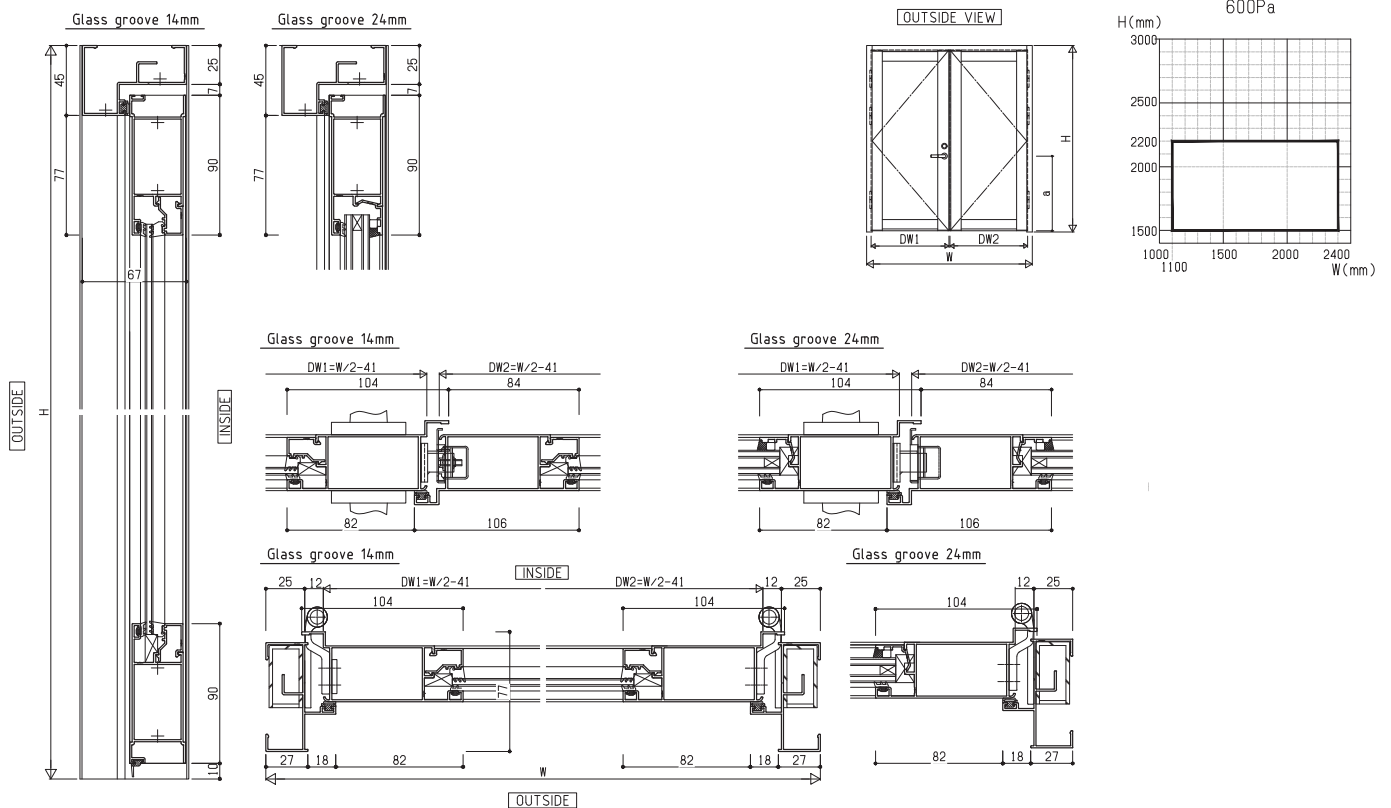


BUTT HINGED DOOR

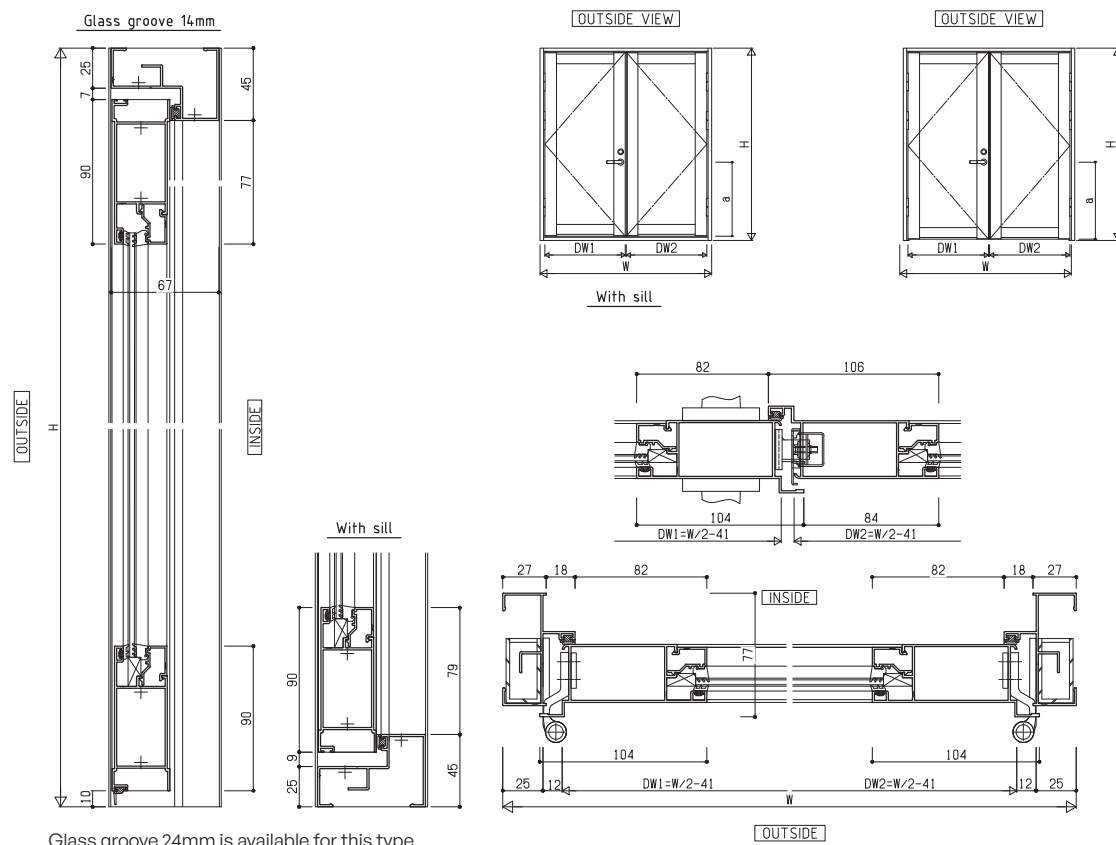
System Drawing & Size Limitation

DT 36 Inswing Double

DT = 36 Double



DT 36 Outswing Double



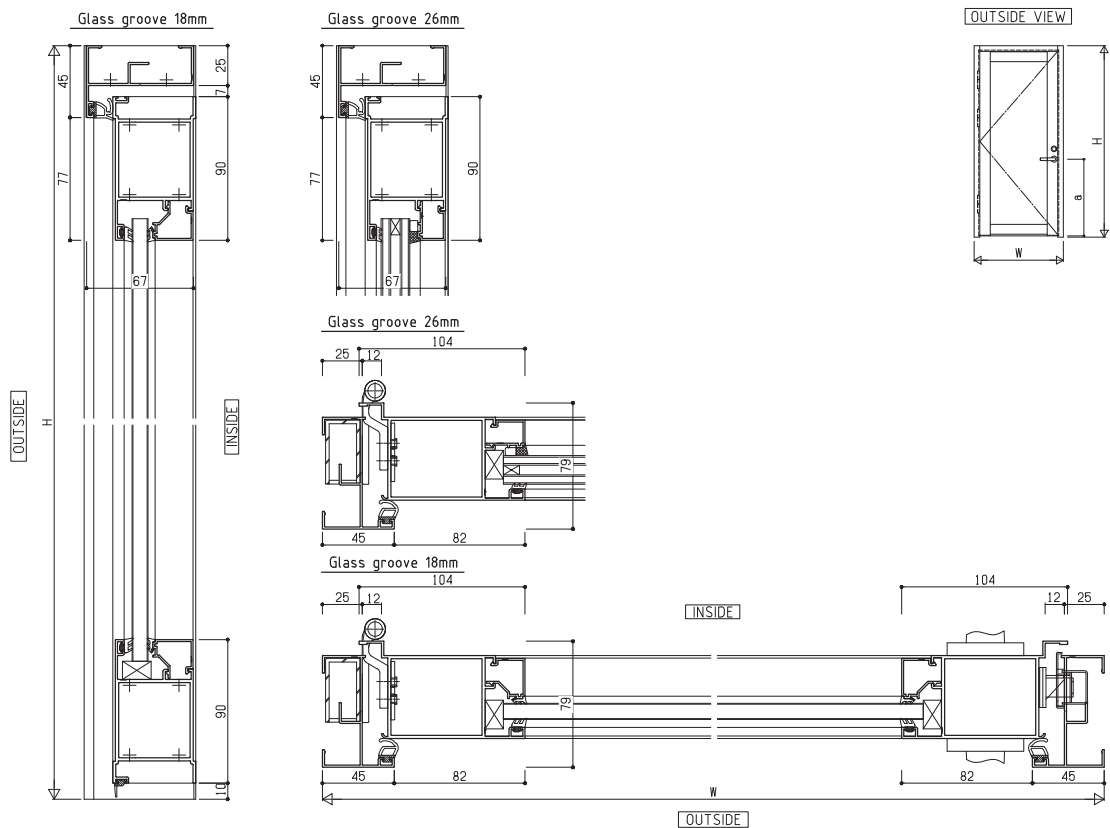
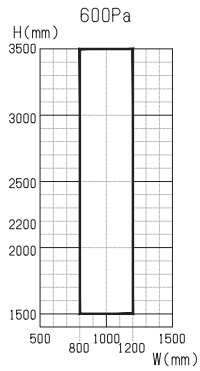
Glass groove 24mm is available for this type

BUTT HINGED DOOR

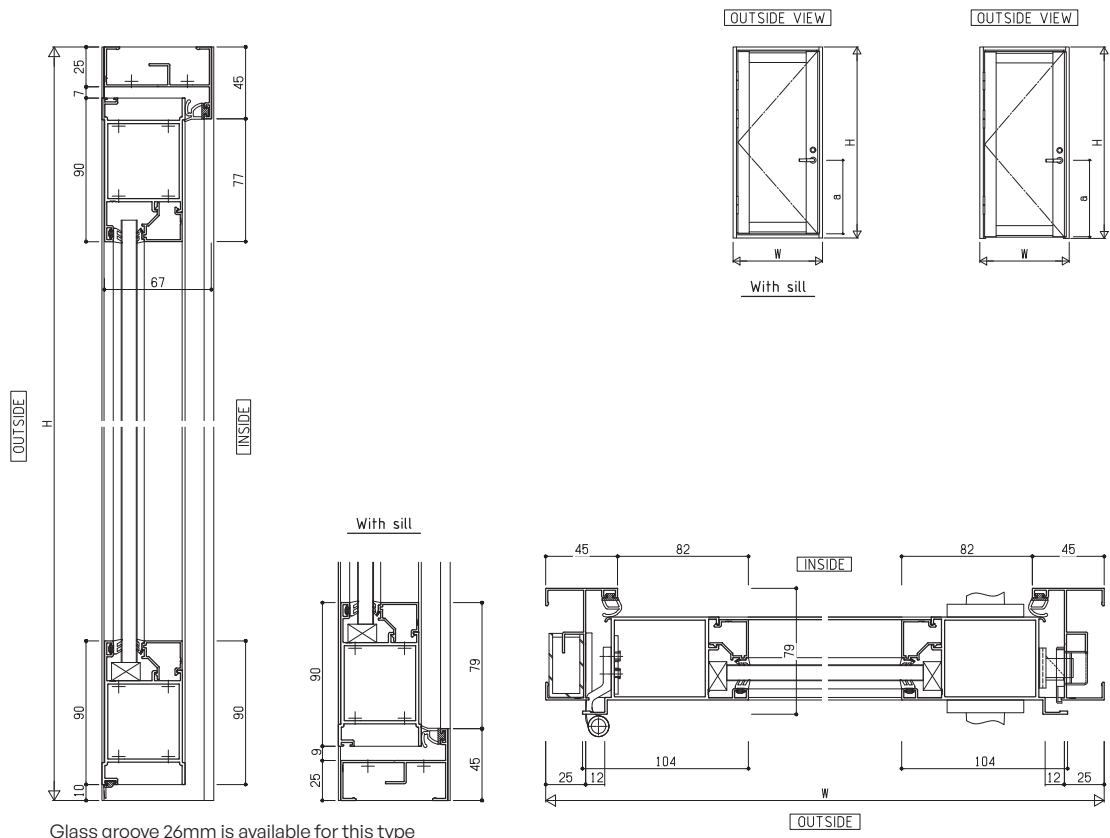
System Drawing & Size Limitation

DT 52 Inswing Single

DT = 52 Single



DT 52 Outswing Single



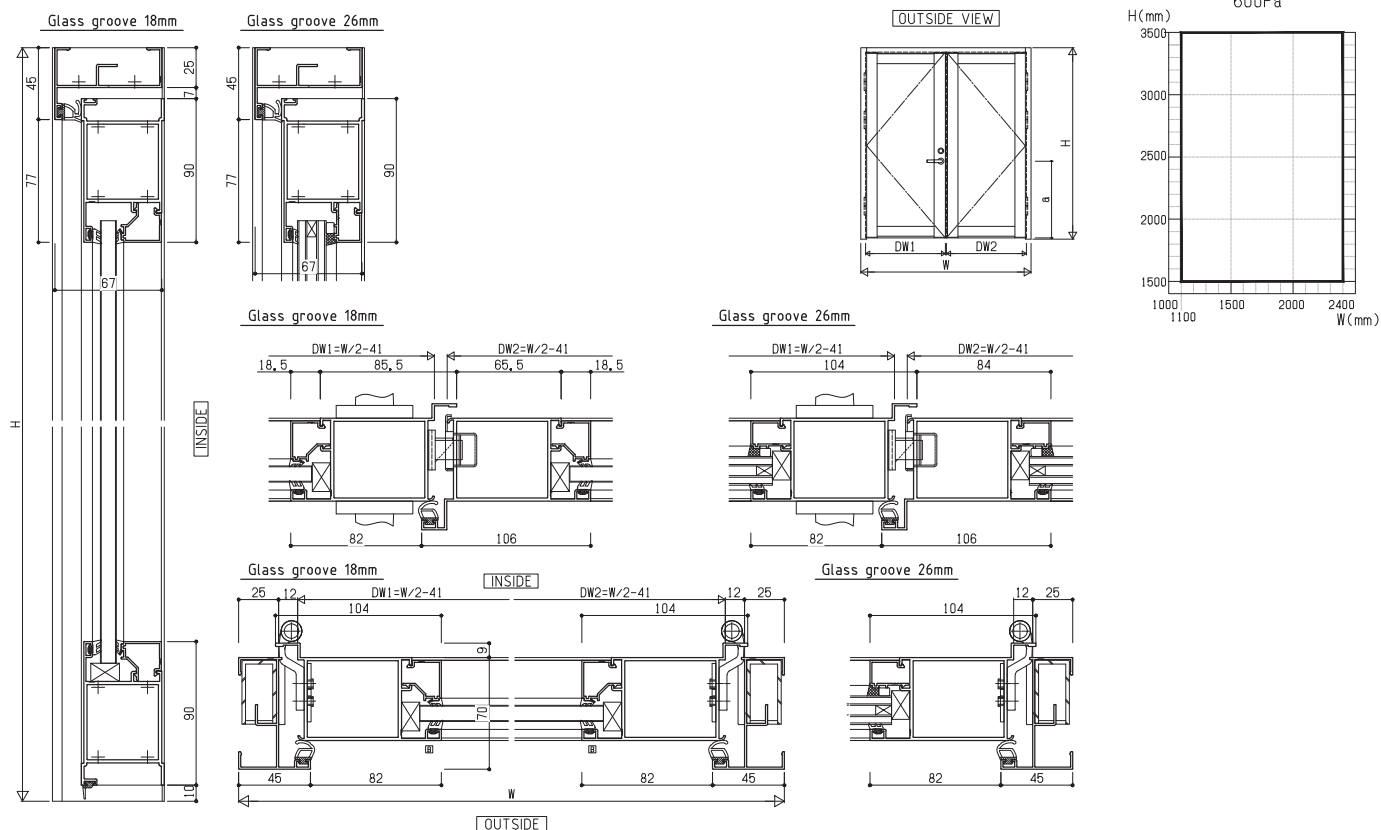
Glass groove 26mm is available for this type

BUTT HINGED DOOR

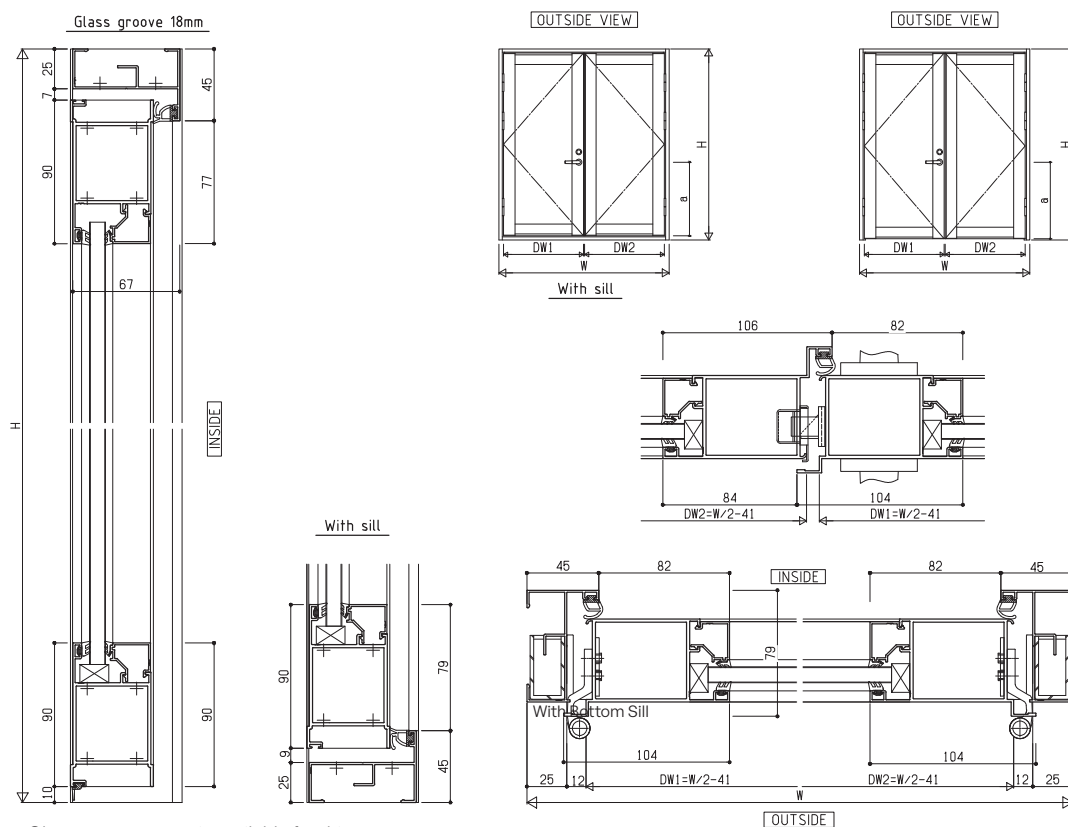
System Drawing & Size Limitation

DT 52 Inswing Double

DT = 52 Double

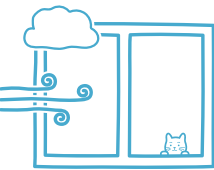


DT 52 Outswing Double



Glass groove 26mm is available for this type

VENTILATION DOOR



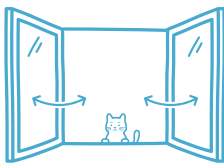
Structural (Wind Load)
1000 Pa
Deflection
L/125



Water Tightness
50 pa



Air Infiltration
Grade A - 2(JIS)



Open-close Test
JIS A 1550
100,000 cycle



VENTILATION DOOR

PRODUCT DIAGRAM



VARIATION

Single Swing Outswing
(Right Hand / Left Hand)

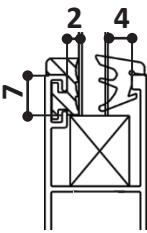


Composite Window



VENTILATION DOOR

GLASS THICKNESS & GASKET MATRIX

Glass & Gasket Type		
		
Glass Groove		11
Glass Thickness		5
Standard		●
Gasket Number	Out	K-21240
	In	K-21165

● Available

VENTILATION DOOR

PARTS MATRIX

	Standard					Optional
						
Item	Door Handle		Double Hung Sliding Lock	Butt Hinge		Door Closer
Standard	●		●	●		●
Color	YS		YK	YS, YK		YS, YK
Parts Number	2K-17901	9K-10105	2K-17706	5K-11220	5K-12221	3K-11612

● Available

DG=Black, YW=White, YK=Black, YS=Silver

VENTILATION DOOR

FEATURES

Environmental Friendly Design

• Energy Saving (Green Building Concept)

Ventilation door is originally designed to adopt the Green Building Concept such as Energy Saving by letting the air fresh in, enable to maximize the usage of natural lighting and many other benefits.



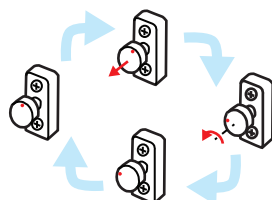
Double Hung windows are mounted inside, allowing ventilation while the door is closed.

* Available 3 locking positions.

Safety & Security

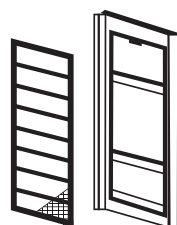
Prevent from damage from strong wind and crime at night and insect disturbance.

Put hand under the catch & push along the track while pulling the knob.



Easy Maintenance and Operability

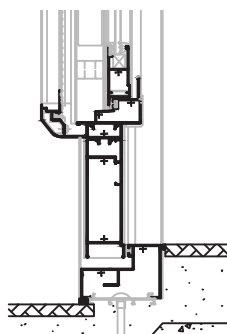
Open the sliding pane, release screw in the center of upper frame from inside, pulling grille upward. For installation, do the procedure in the opposite way.



Reliable Performance

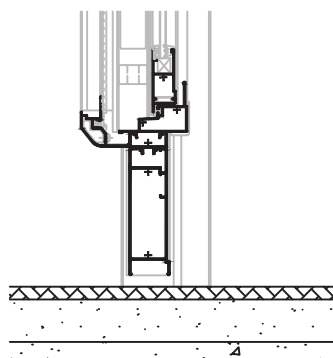
• With Bottom Sill

Performance is secured by the Bottom Sill inside space from water leakage.



Provided with Bottom Sill to prevent water and dust leak inside

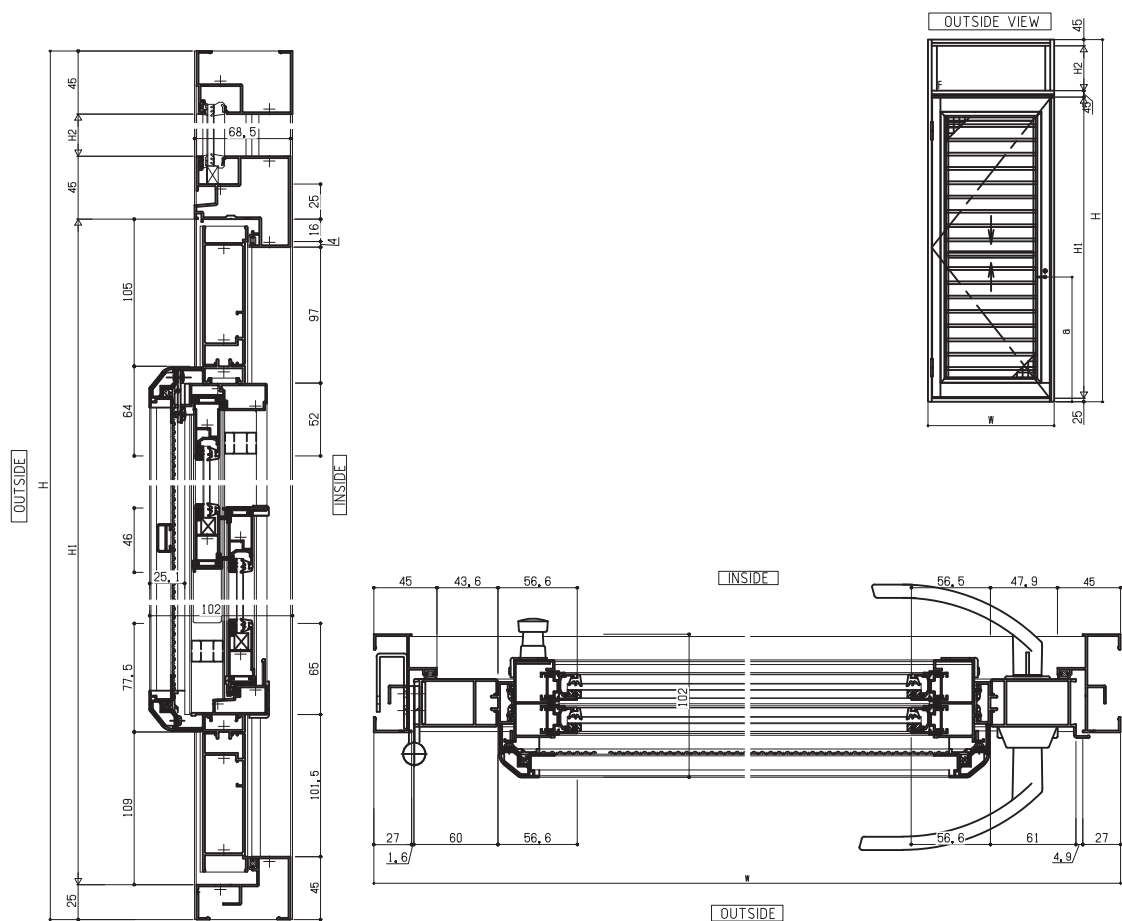
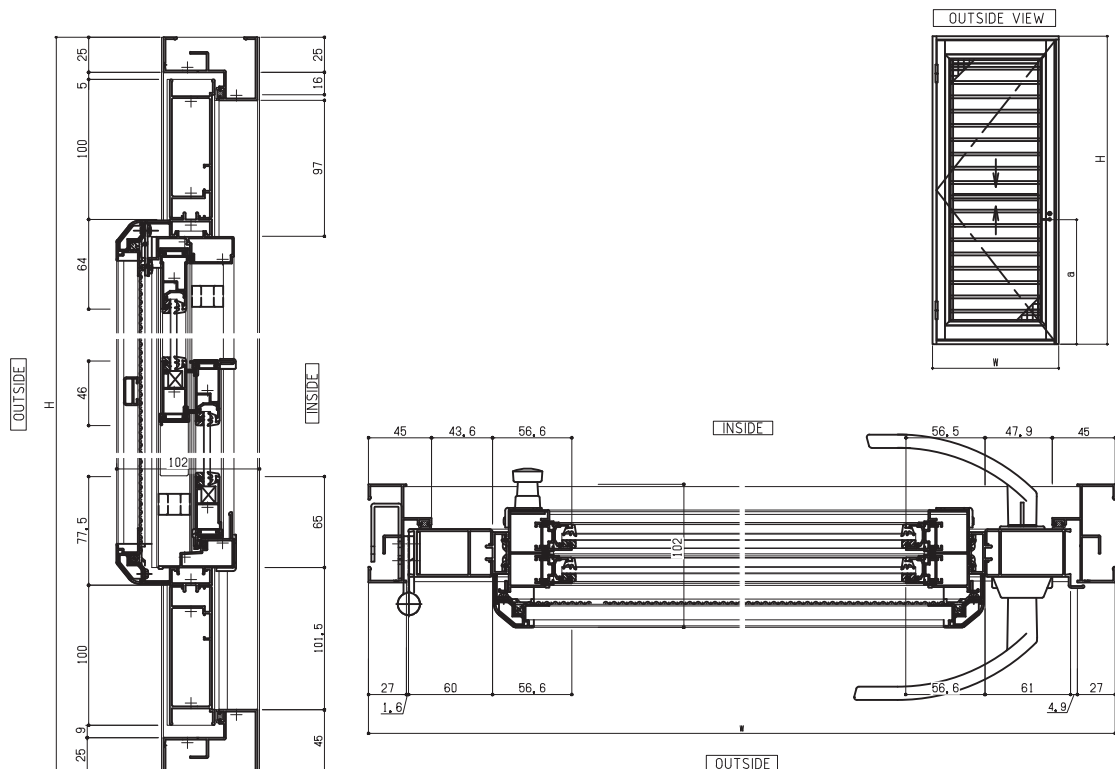
• Without Bottom Sill



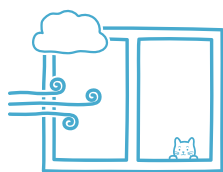
VENTILATION DOOR

System Drawing & Size Limitation

	W	H
Typical Size	900	2100
Maximum Size	900	2200



FOLDING DOOR



Structural (Wind Load)

600 Pa
Deflection
L/100



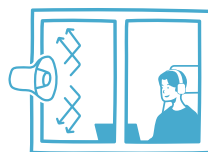
Water Tightness

Standard
350 Pa
Strong
100Pa



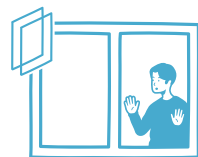
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)

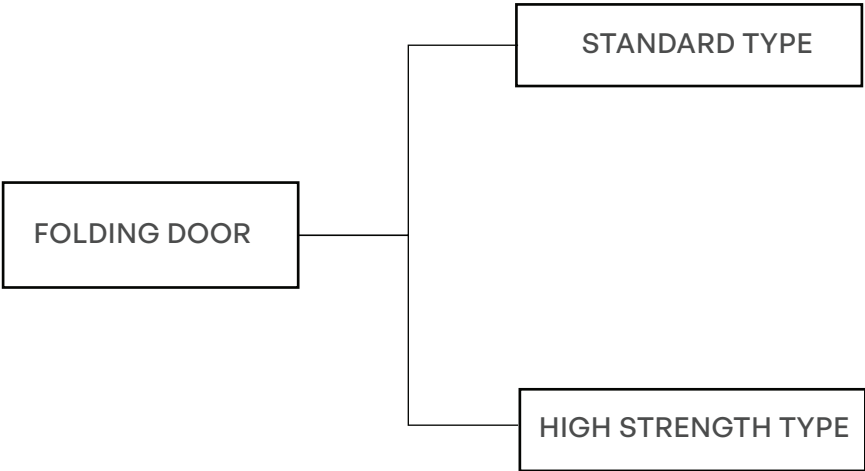


Double Glazing



FOLDING DOOR

PRODUCT DIAGRAM

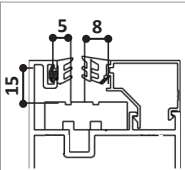
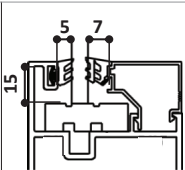
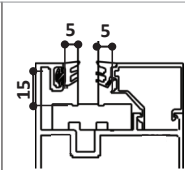
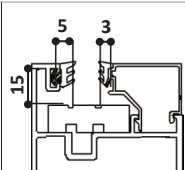
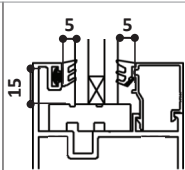
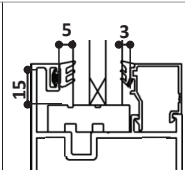


LEAVES AND OPENING VARIATION

	WIDE								
	0R	1R	2R	3R	4R	5R	6R	7R	8R
0L									
1L									
2L									
3L									
4L									
5L									
6L									
7L									
8L									

FOLDING DOOR







GLASS THICKNESS & GASKET MATRIX

Glass & Gasket Type							
							
Glass Groove		18				26	
Glass Thickness		5	6	8	10	5+A6+5	6+A6+6
Standard		●	●	●	●	●	●
High Strength		●	●	●	●	●	●
Gasket Number	Out	2K-22278					
	In	2K-24327	2K-24910	2K-22973	2K-22975	2K-22973	2K-22975

● Available

FOLDING DOOR

PARTS MATRIX

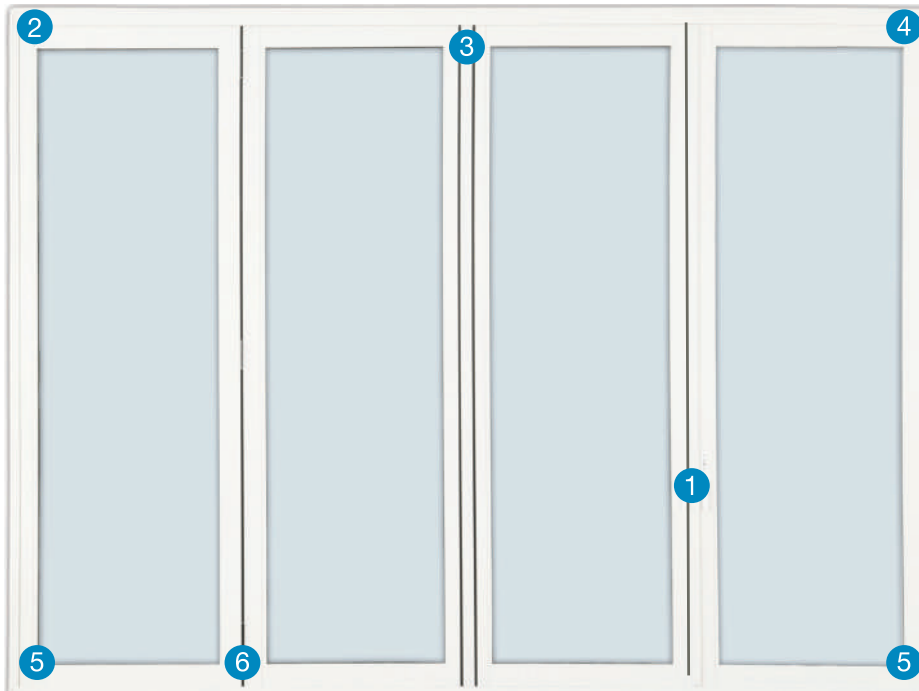
	Standard							Optional	
									
Item	Cremone Handle		Hanger Roller	Hinge		Safety Rubber		Stopper	Key Cylinder
Standard	●		●	●		●		●	●
High Strength	●		●	●		●		●	●
Color	DG, YW		YS	DG, YW		DG		DG, YW	DG, YW
Parts Number	9K-10908	9K-10904	5K-18201	5K-18204	5K-18205	5K-13812	5K-13813	3K-22098	2K-38276

● Available

DG=Black, YW=White, YK=Black, YS=Silver

FOLDING DOOR

FEATURES



Design

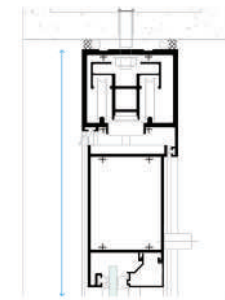
Slim Handle



Neat Frame



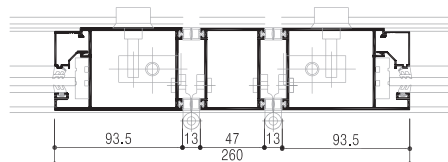
Inner frame in a line



Performance and Workability

• High Strength Inner Frame Setting

Support large opening, support anti typhoon strength



• Weep Hole

It will not be soaking wet and pleck the drainage thanks to weep hole.



• Hanger Roller

Ensure the smoothness and durable against heavy duty.



Safety and Security

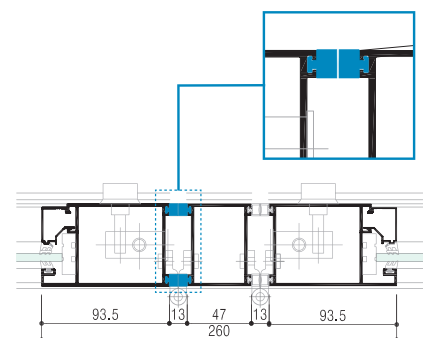
• Weather-Strip & Multipoint Lock

Weather-strip is provided to ensure air infiltration and safety for fingers. The multipoint lock on top and baller with one stroke ensure security for your home.



6

Lock Position

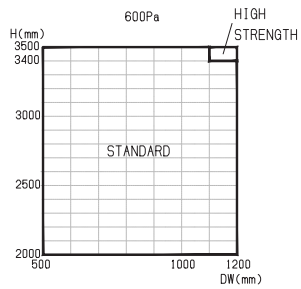


FOLDING DOOR

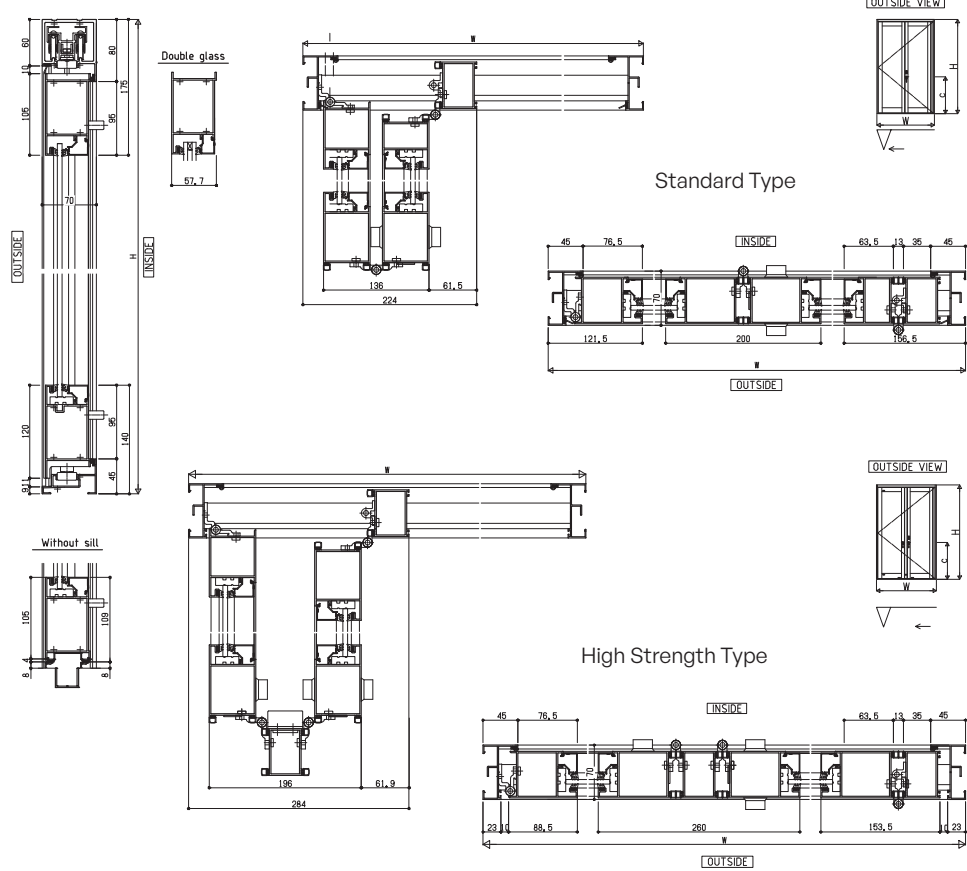
System Drawing & Size Limitation

2 - 8 Leaves

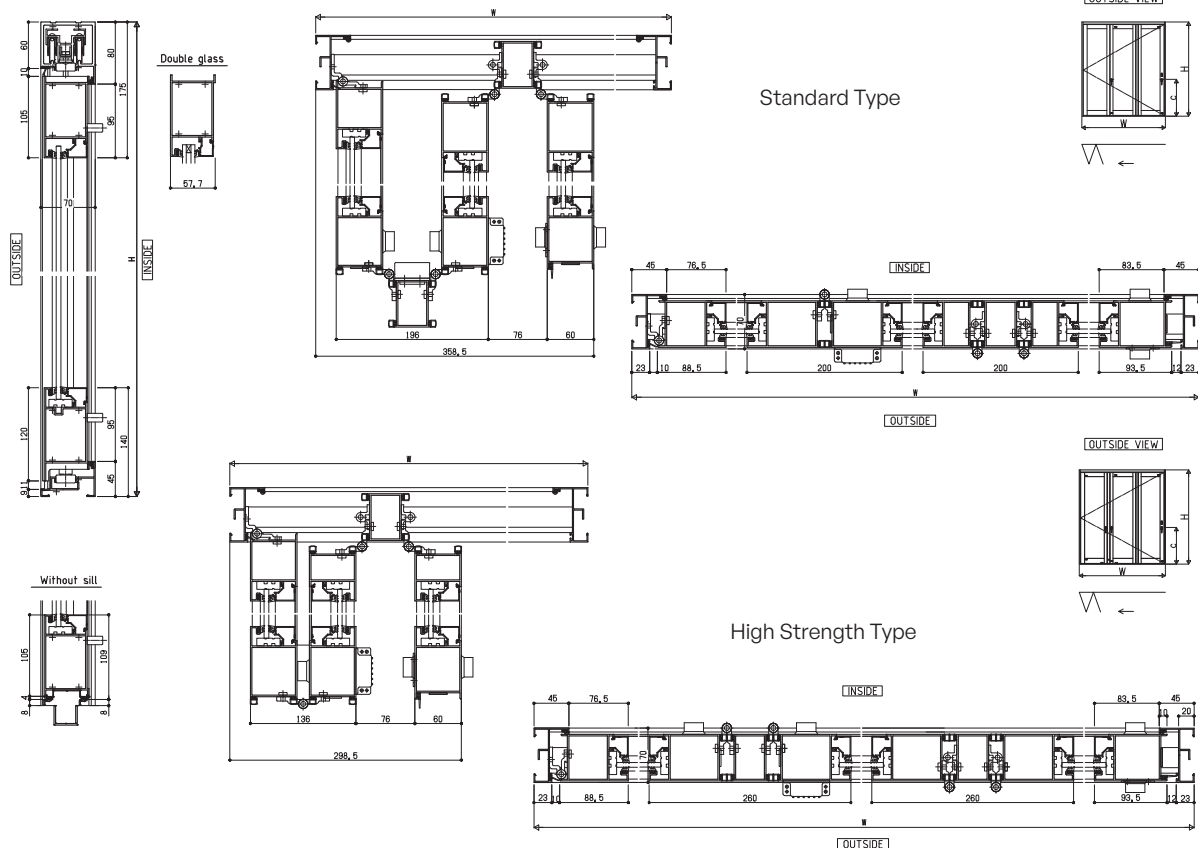
2 Leaves Outswing



DW = Width of 1 leaf
1 leaf max. weight : 90 kg



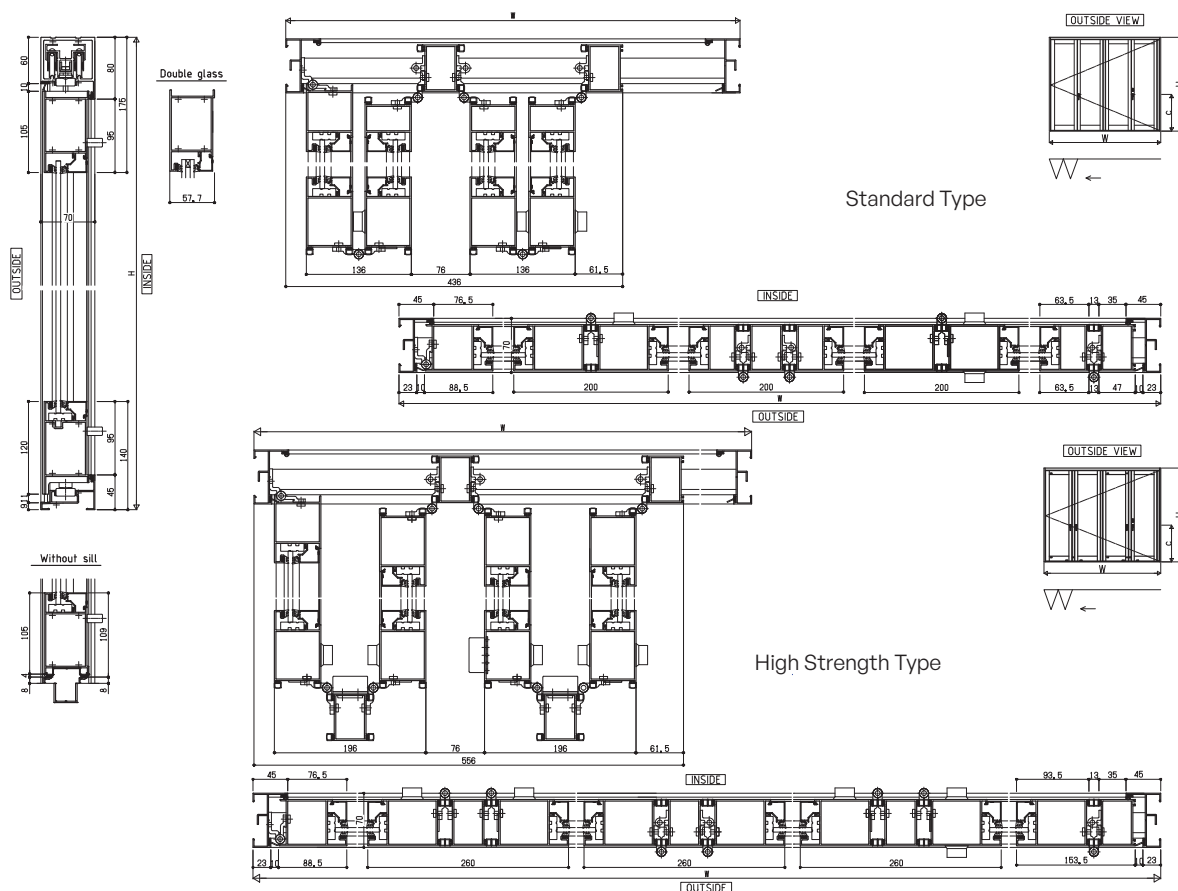
3 Leaves Outswing



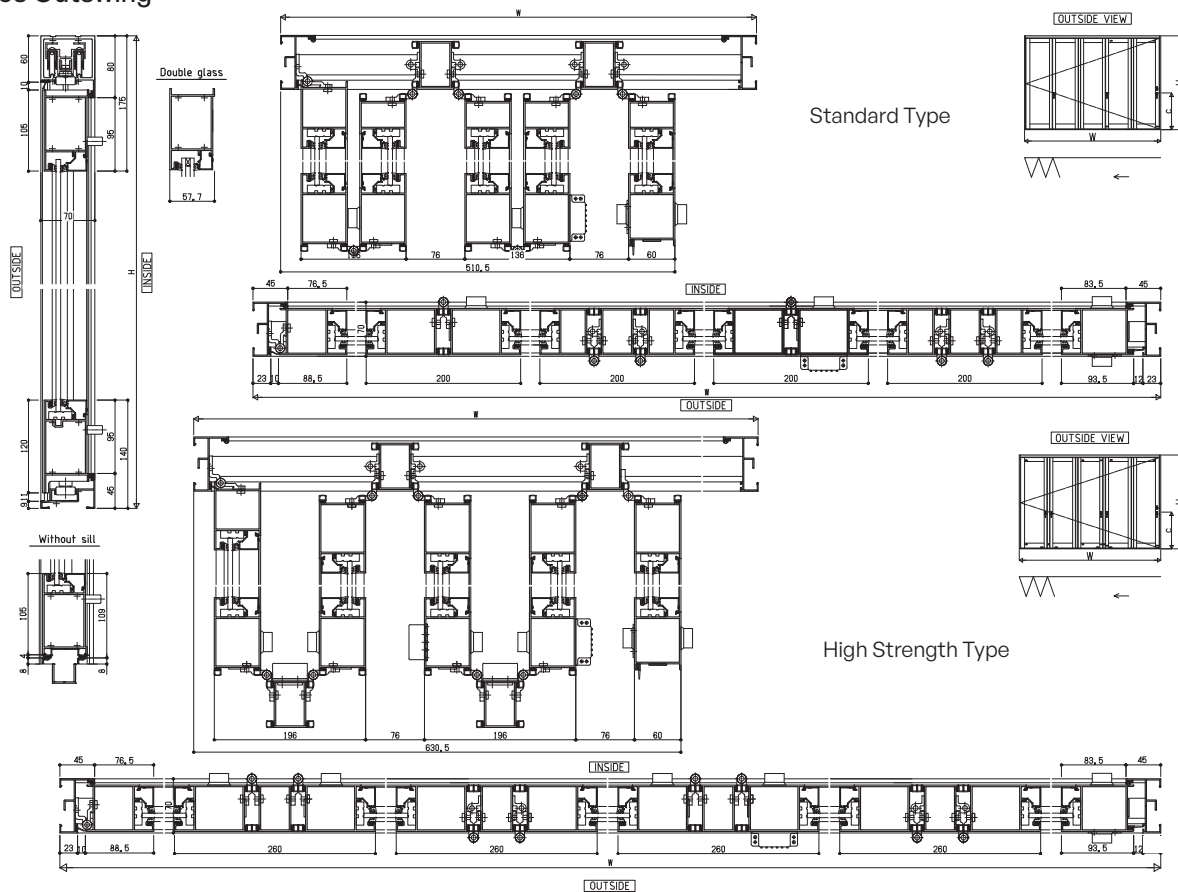
FOLDING DOOR

System Drawing & Size Limitation

4 Leaves Outswing



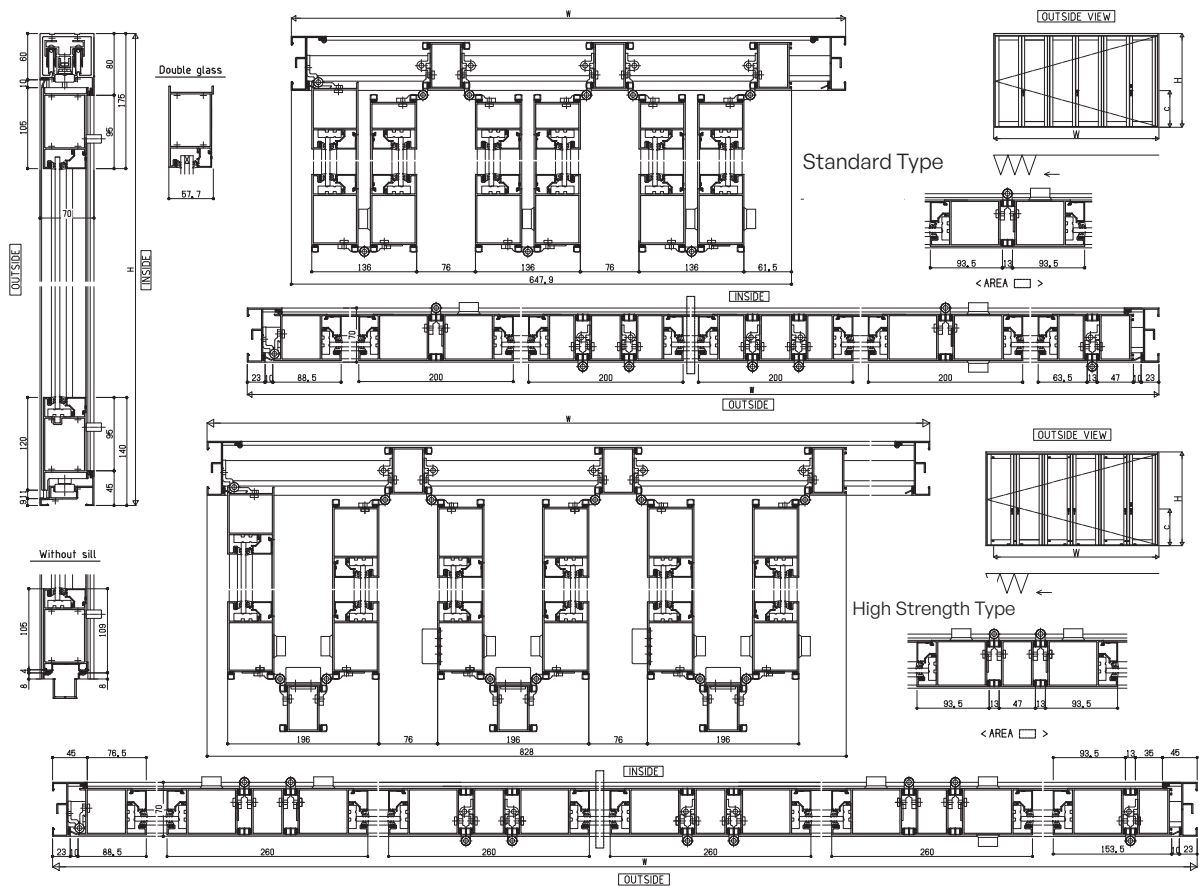
5 Leaves Outswing



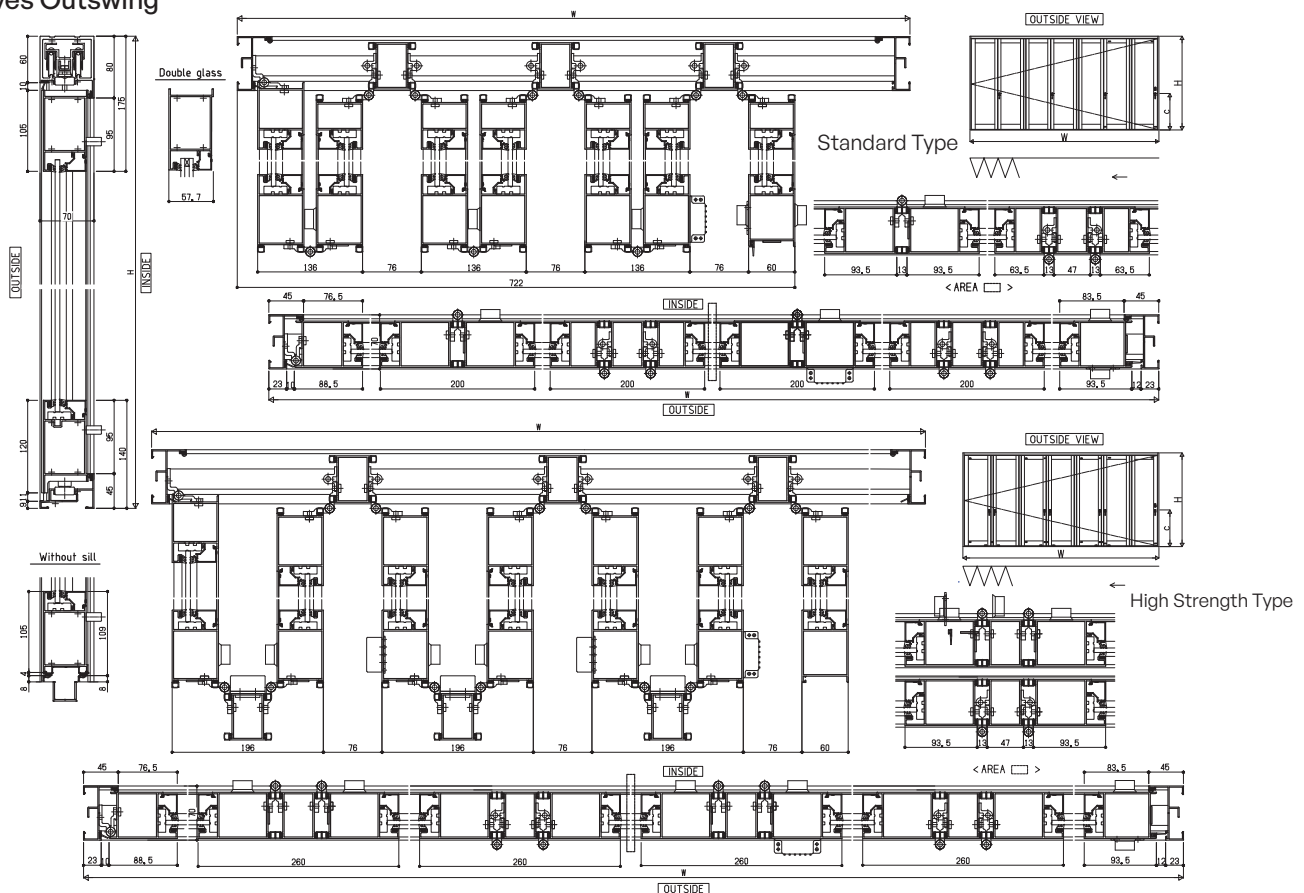
FOLDING DOOR

System Drawing & Size Limitation

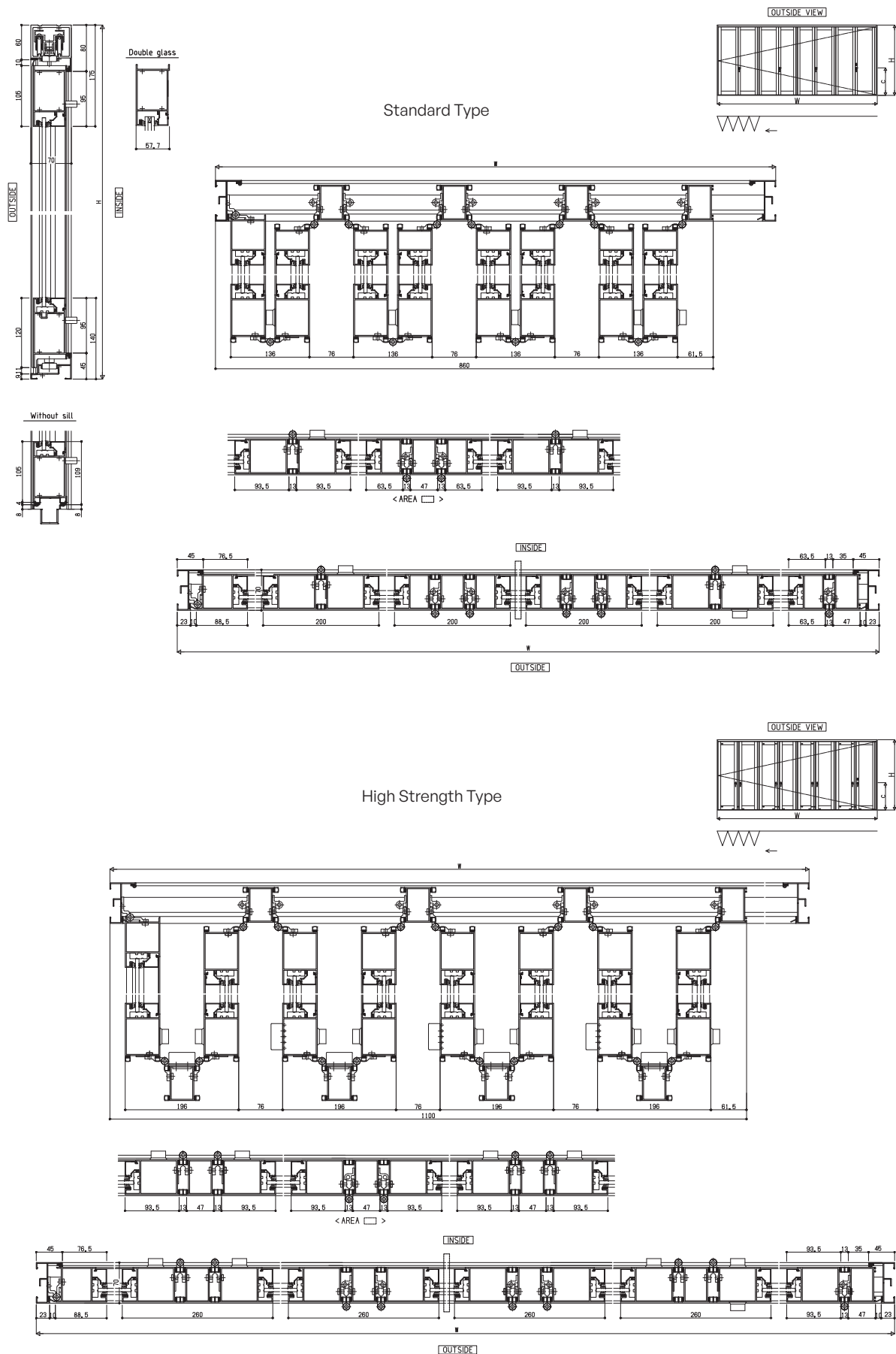
6 Leaves Outswing



7 Leaves Outswing



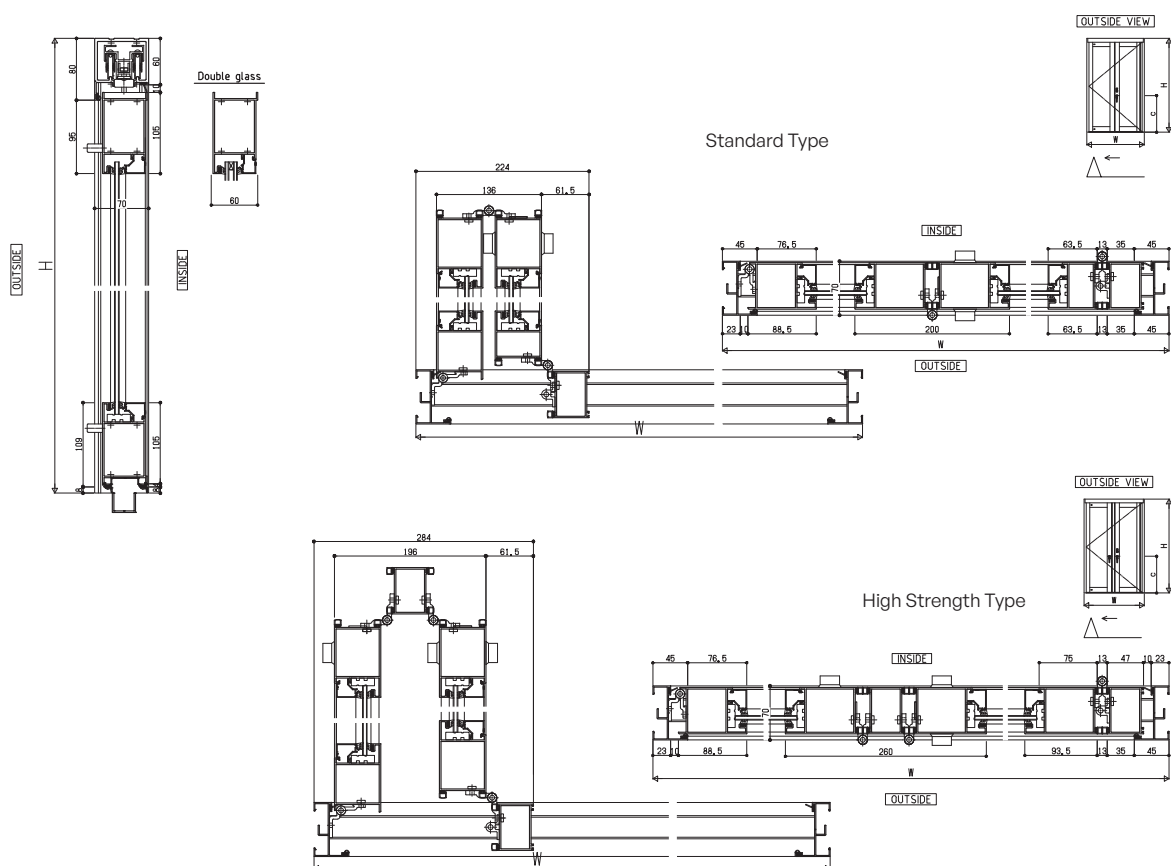
8 Leaves Outswing



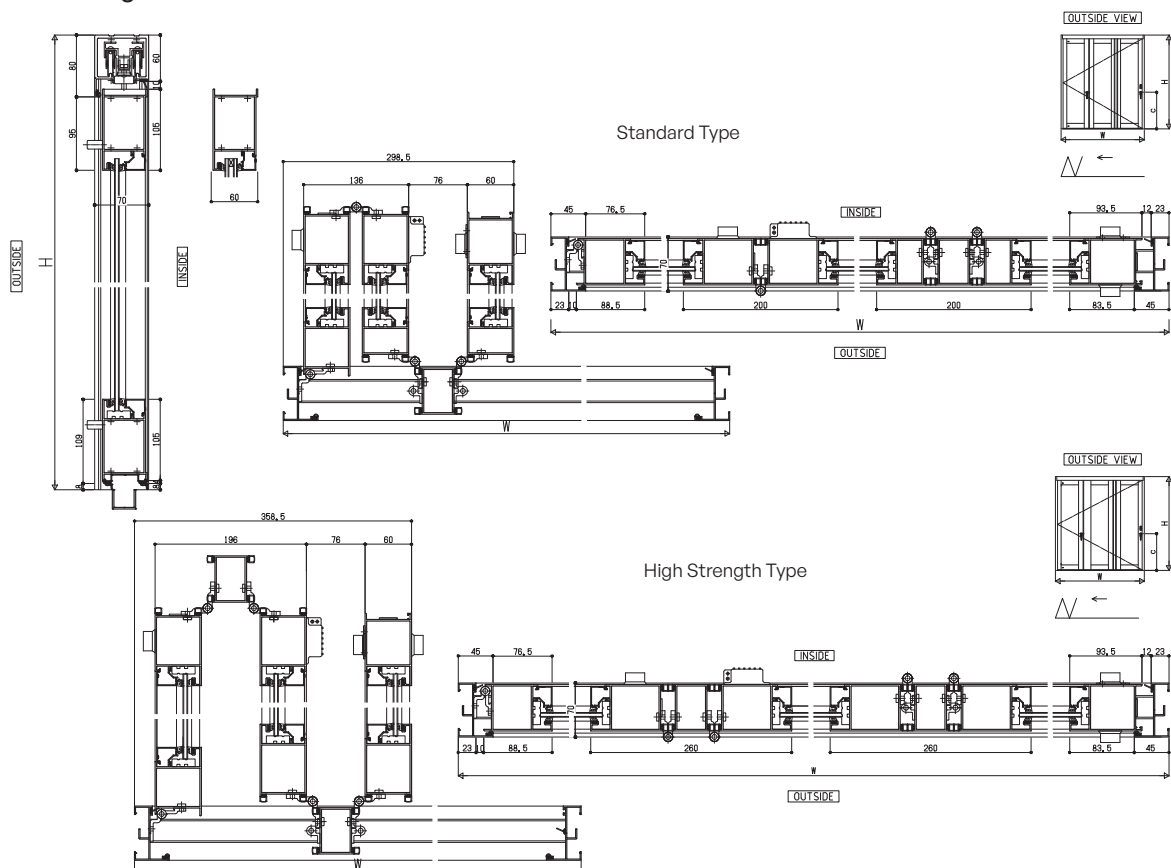
FOLDING DOOR

System Drawing & Size Limitation

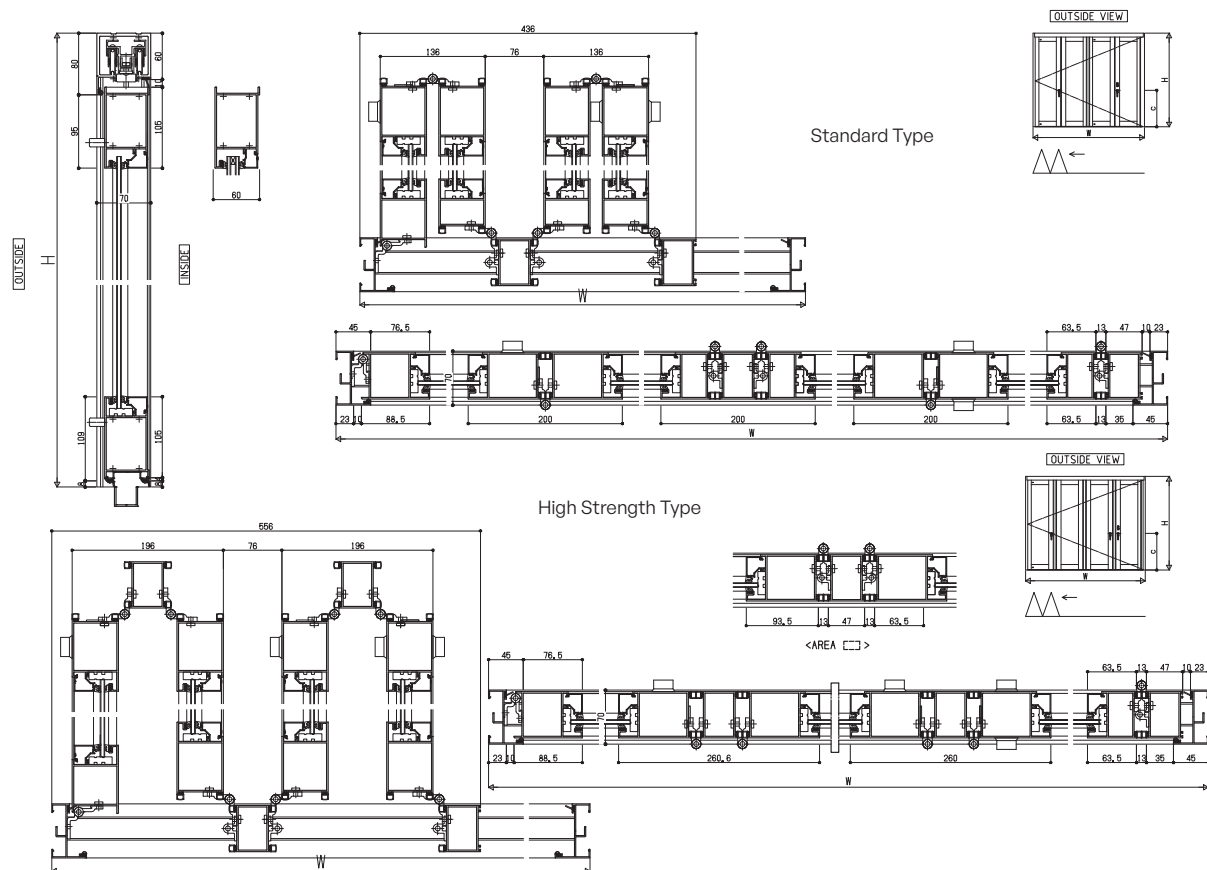
2 Leaves Inswing



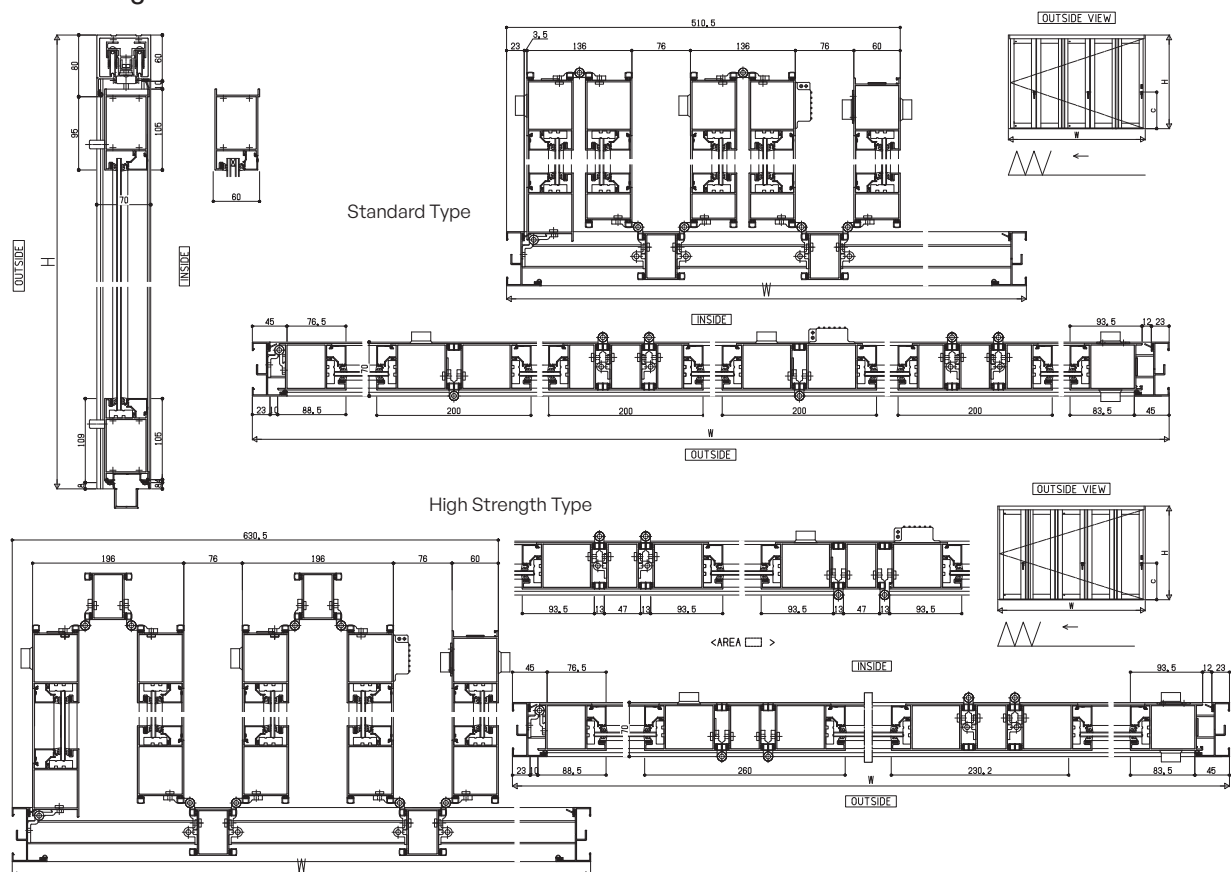
3 Leaves Inswing



4 Leaves Inswing



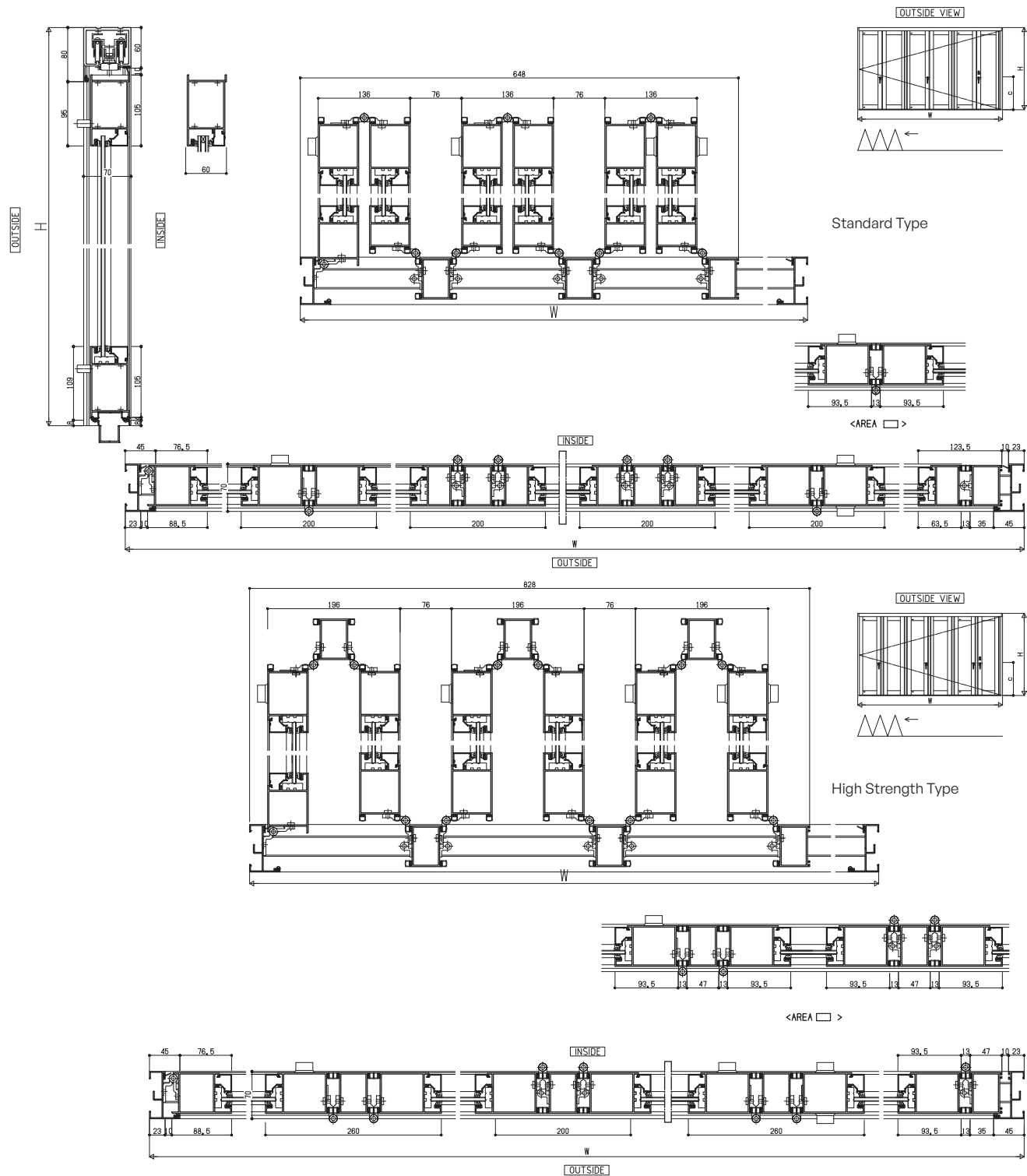
5 Leaves Inswing



FOLDING DOOR

System Drawing & Size Limitation

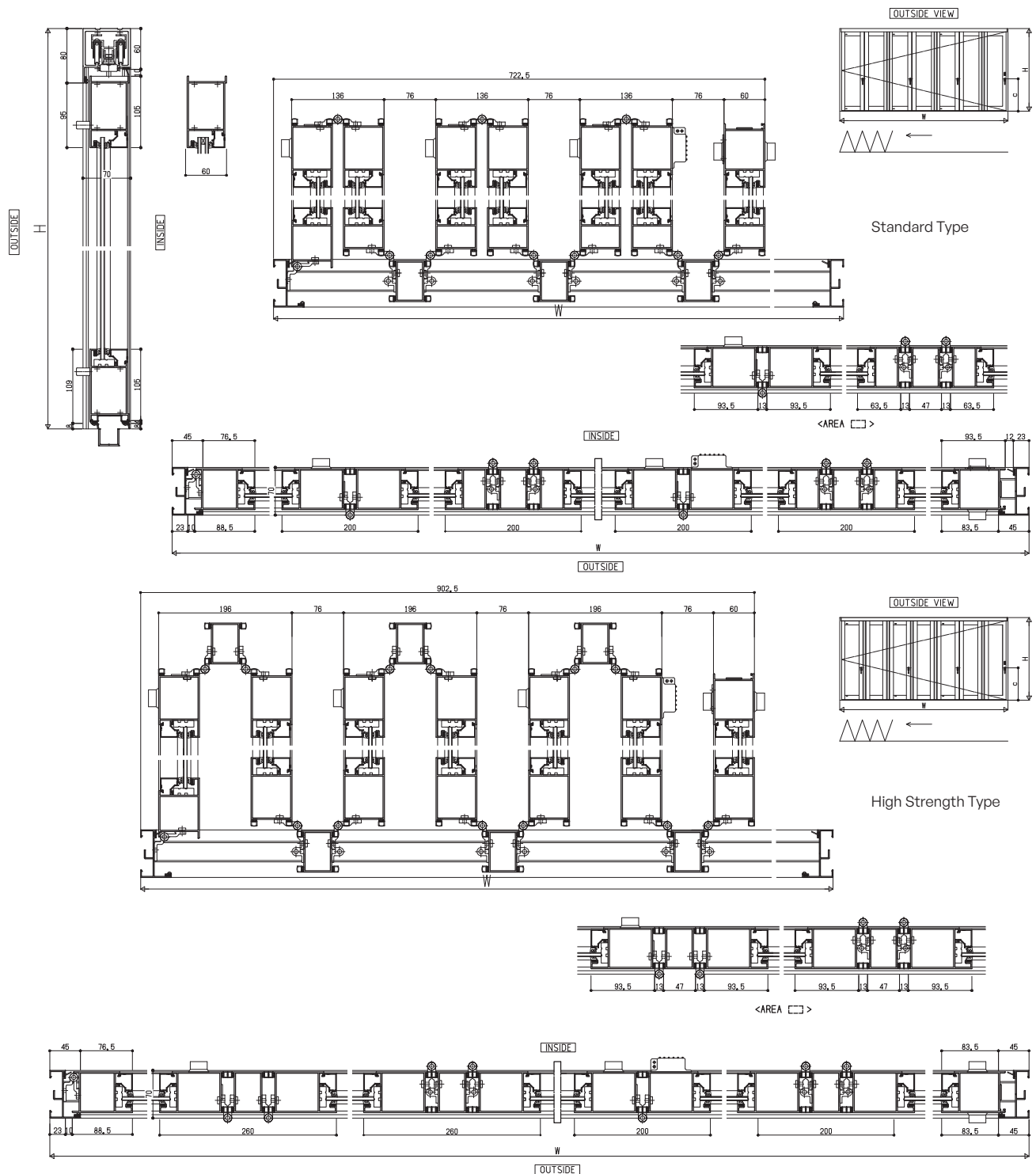
6 Leaves Inswing



FOLDING DOOR

System Drawing & Size Limitation

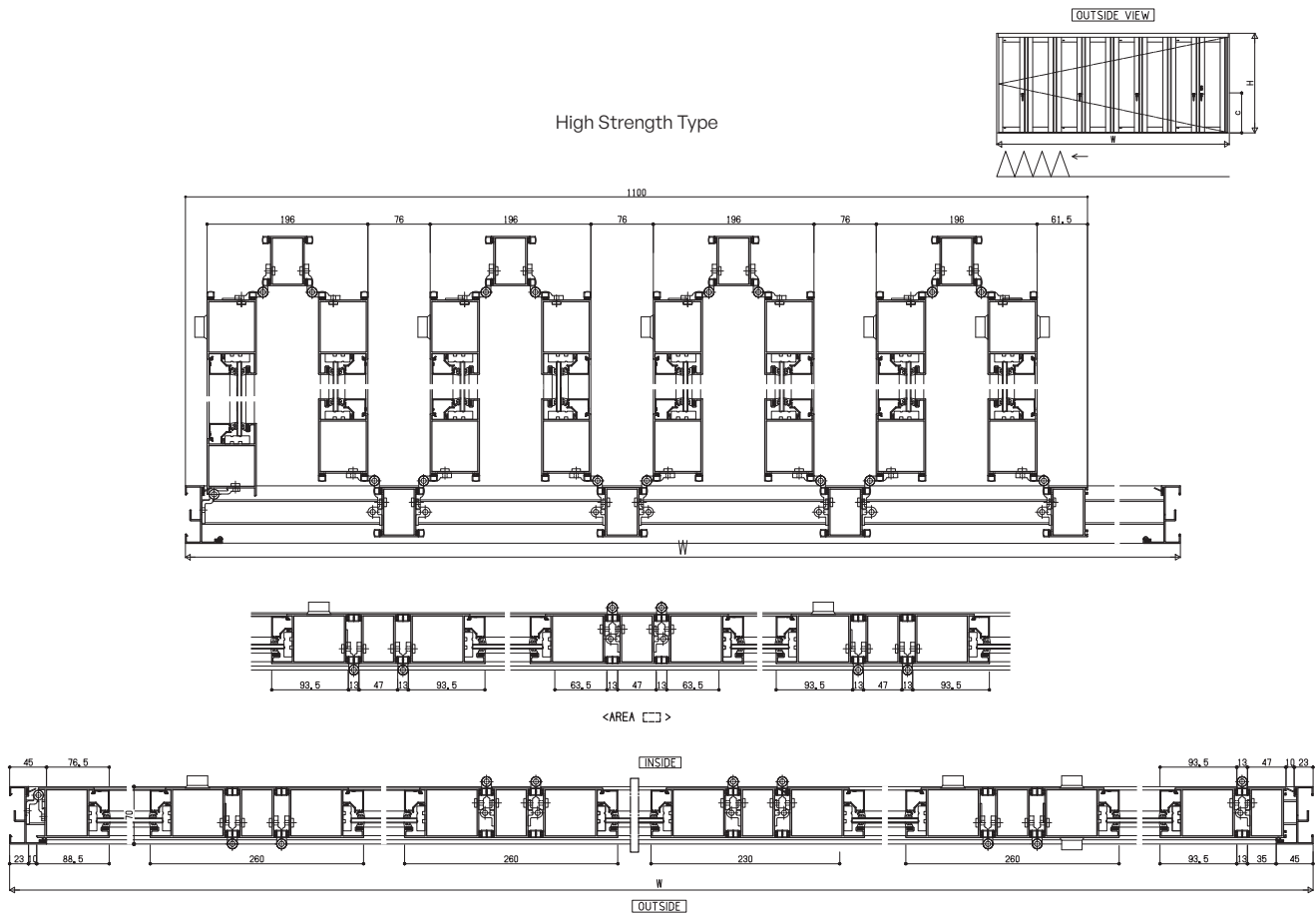
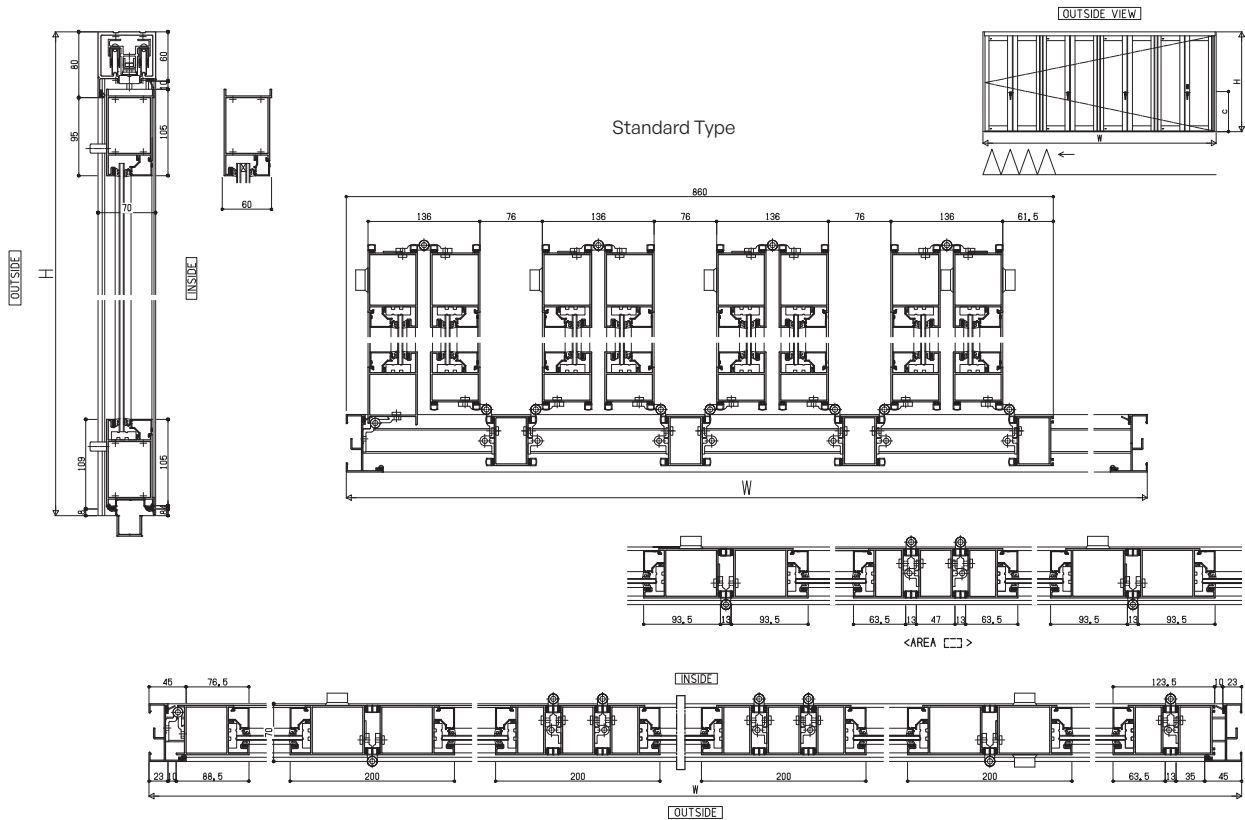
7 Leaves Inswing



FOLDING DOOR

System Drawing & Size Limitation

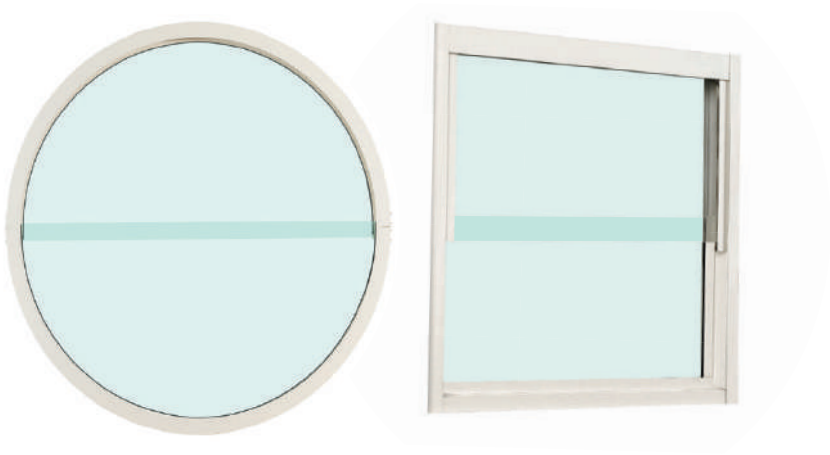
8 Leaves Inswing



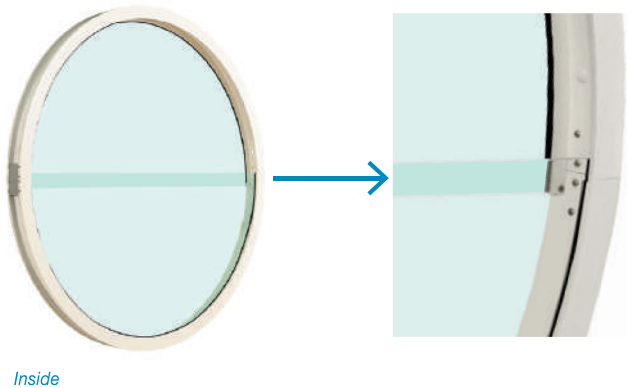
BOVENLICHT & LOUVER

Bovenlicht

Bovenlicht provides an airy feel and luminous light.



Round Type

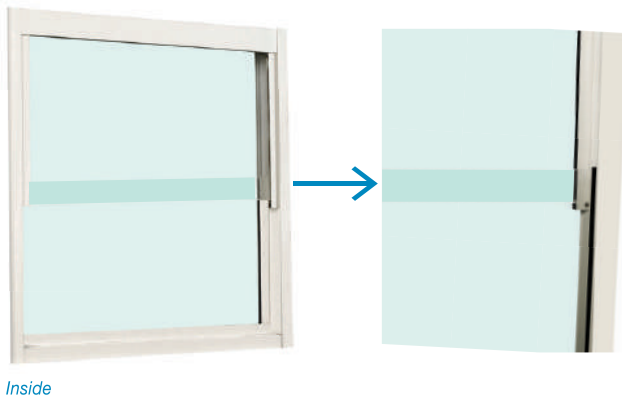


Louver



Louver brings an additions air circulation and insect screen.

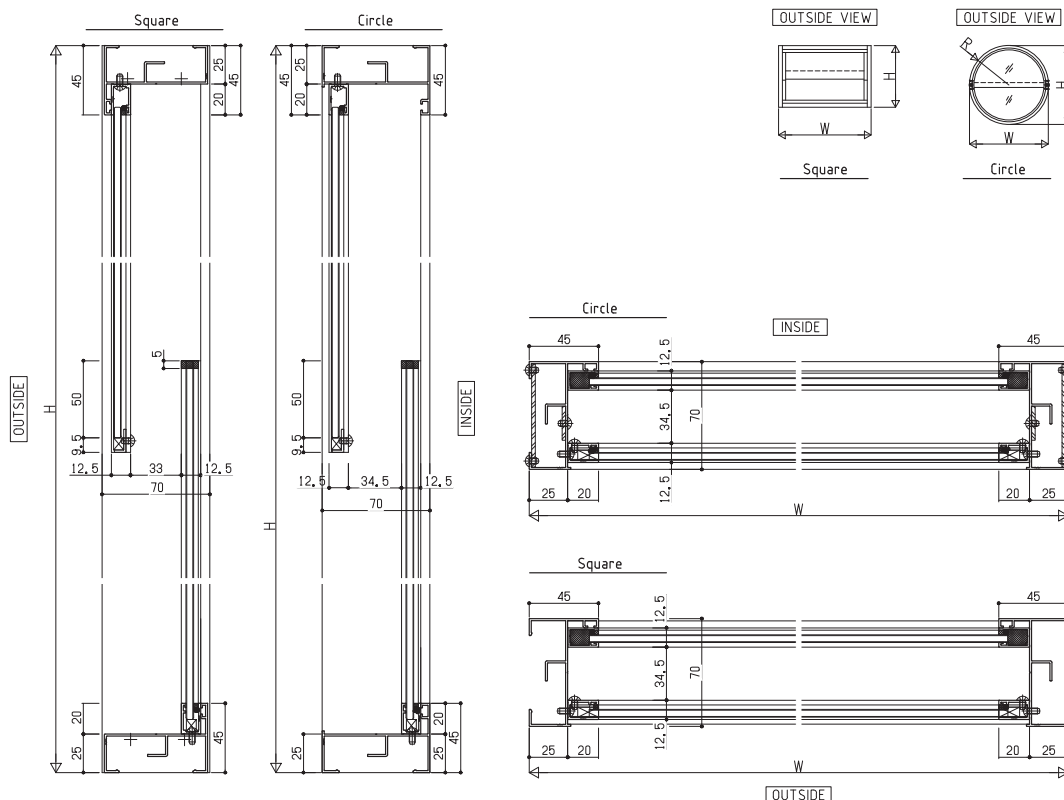


Square Type



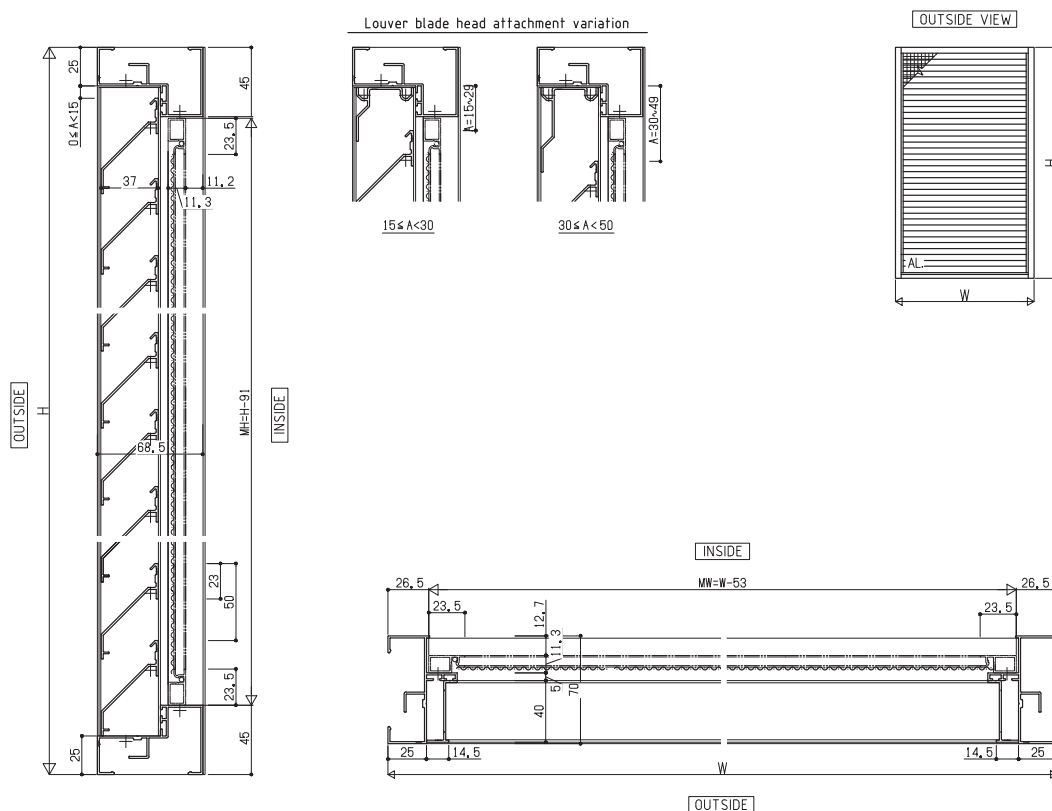
Bovenlicht

	
W 600 ≤ W ≤ 800	R ≥ 600
H 400 ≤ H ≤ 600	



Louver

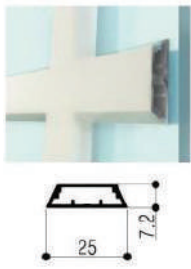
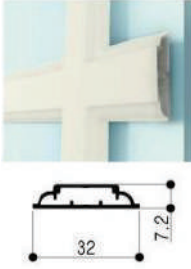



W 600 ≤ W ≤ 800	H 700 ≤ H ≤ 1400
-----------------	------------------



COMMON OPTION LATTICE

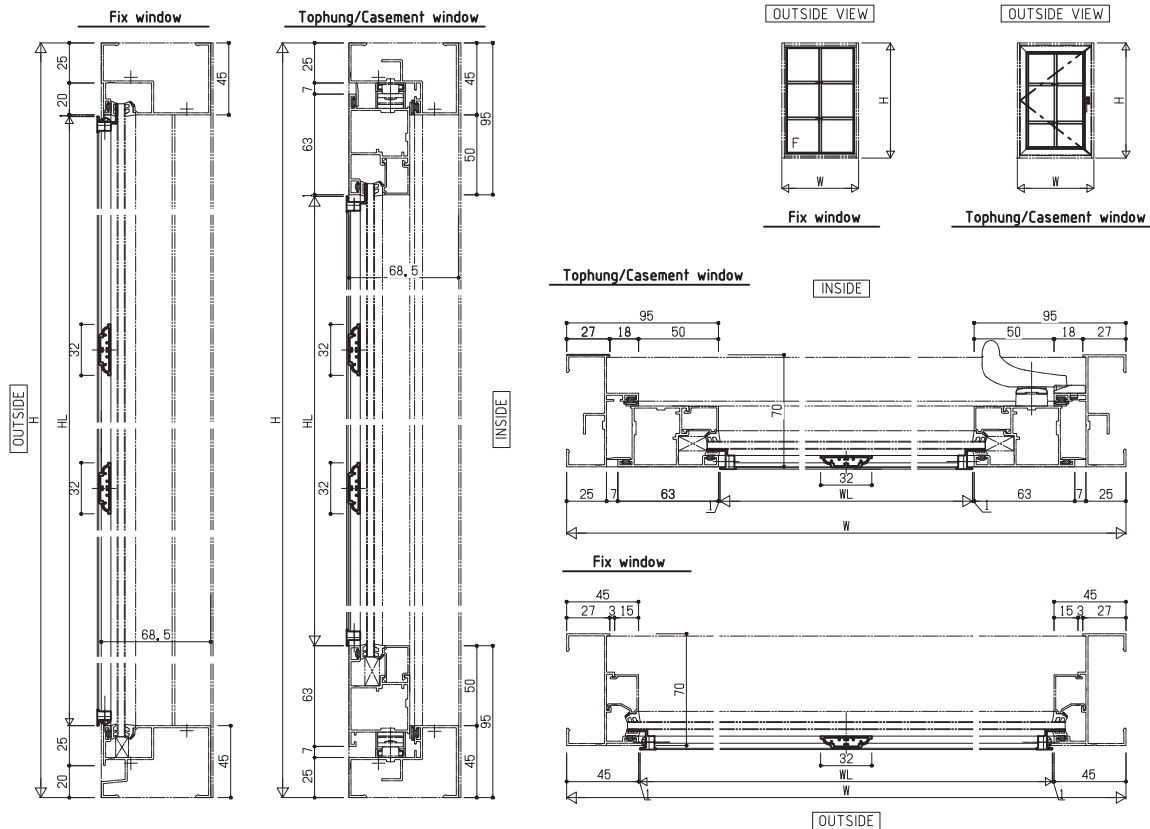


VARIATION

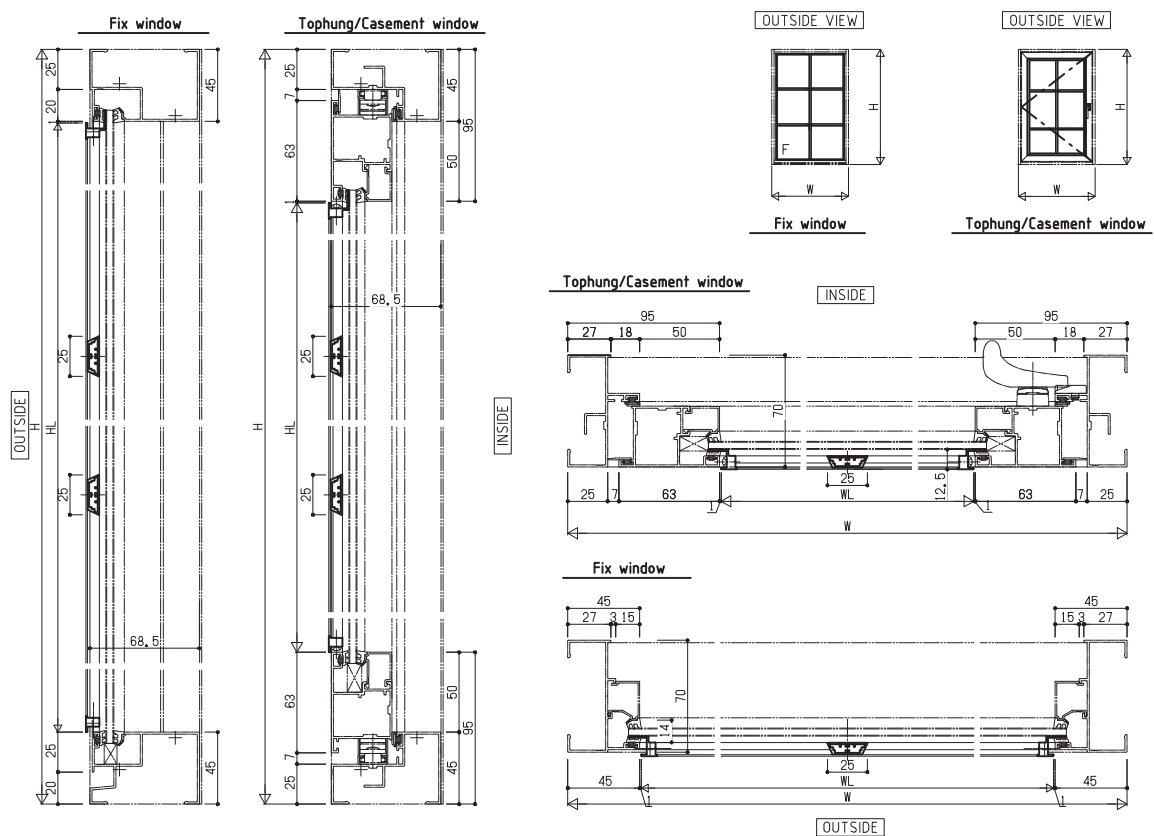
		FRAME TYPE				
						
		Trapezoid	Decorative	Flat	Stick on Glass Flat	Bevelled
Standard Sliding					●	
Wide View Sliding					●	
Top Hung	A,B-Type	●	●	●	●	●
	LS-Type	●	●	●	●	
Casement	A,B-Type	●	●	●	●	○
	LS-Type	●	●	●	●	
Fix		●	●	●	●	
Door		●	●	●	●	
Folding Door		●	●	●	●	

● Available ○ Available, glazing with sealant

Decora

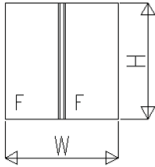
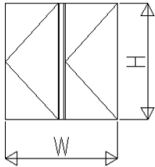
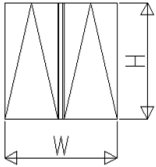
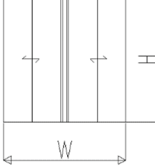


Trapezoid



COMMON OPTION MULLION

VARIATION

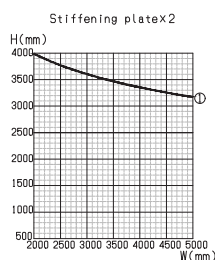
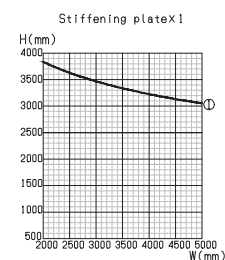
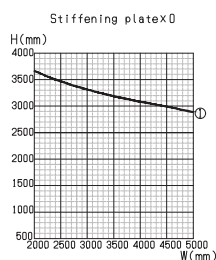
Variation				
				
	Fix-Fix	Casement-Casement	Top Hung-Top Hung	Sliding-Sliding
	Standard-Type			
Strong-Type				

● Available

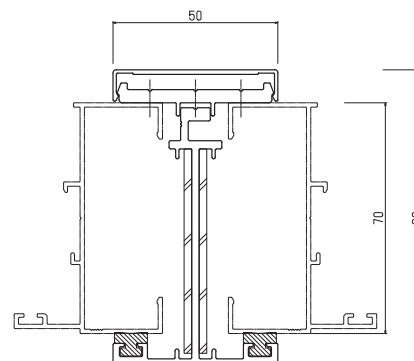
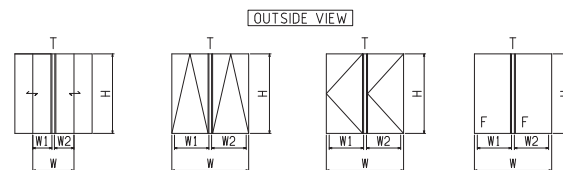
COMMON OPTION MULLION System Drawing & Size Limitation

T-Mullion Standard SL-SL / TH-TH / CA-CA / FIX-FIX

Available for
 SL : 2 & 4 Leaves glass groove 12 mm & 14 mm
 FIX : glass groove 14 mm and 24 mm
 TH & CA : glass groove 14 mm, 18 mm, 24 mm, and 26 mm



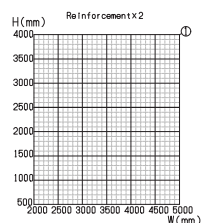
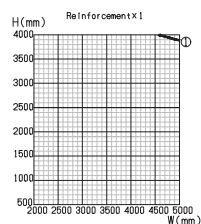
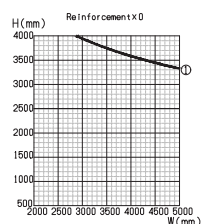
1	PRESSURE
1	600Pa



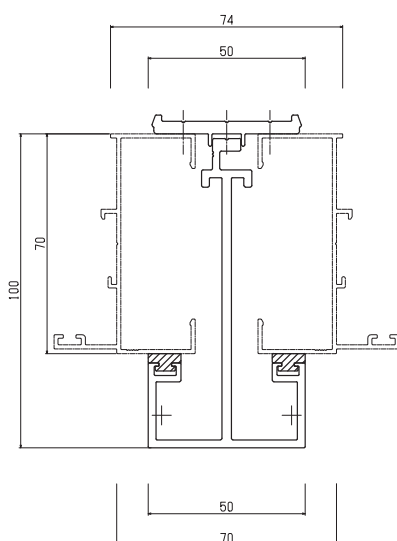
In case of FIX-FIX, W1 = W2

T-Mullion High Strength SL-SL / TH-TH / CA-CA / FIX-FIX

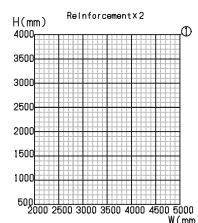
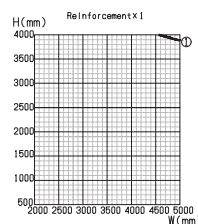
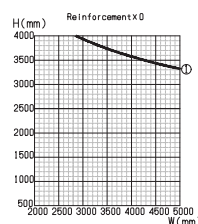
Available for
 SL : 2 & 4 Leaves glass groove 12 mm & 14 mm
 FIX : glass groove 14 mm and 24 mm
 TH & CA : glass groove 14 mm, 18 mm, 24 mm, and 26 mm



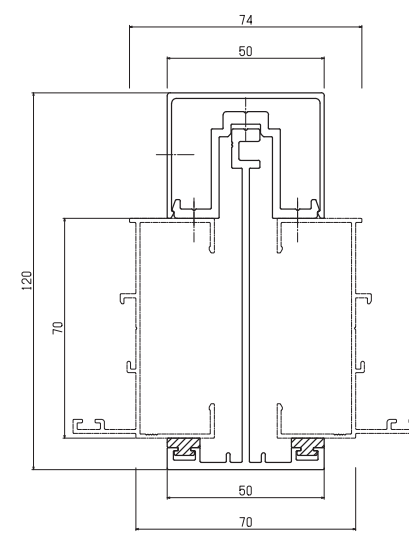
Protruding Outside



1	PRESSURE
1	600Pa



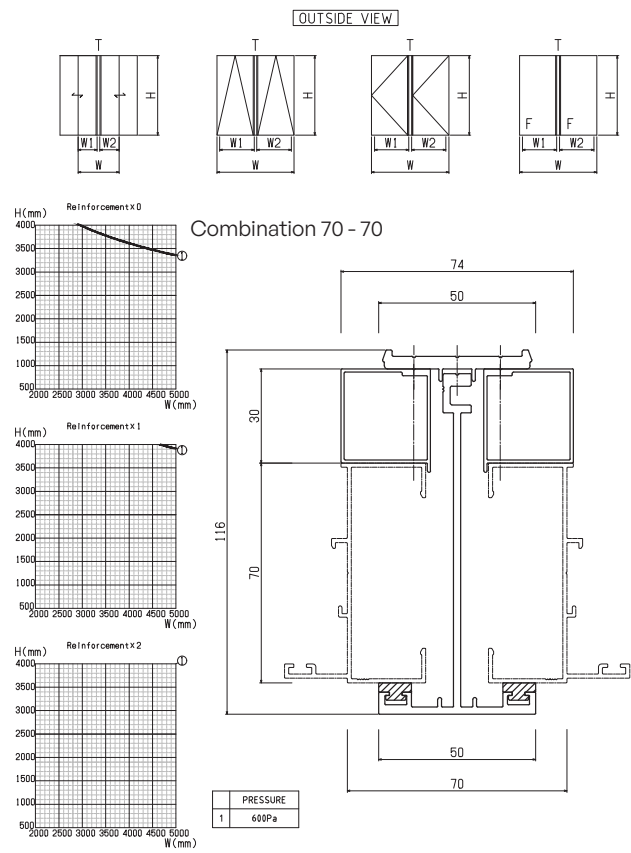
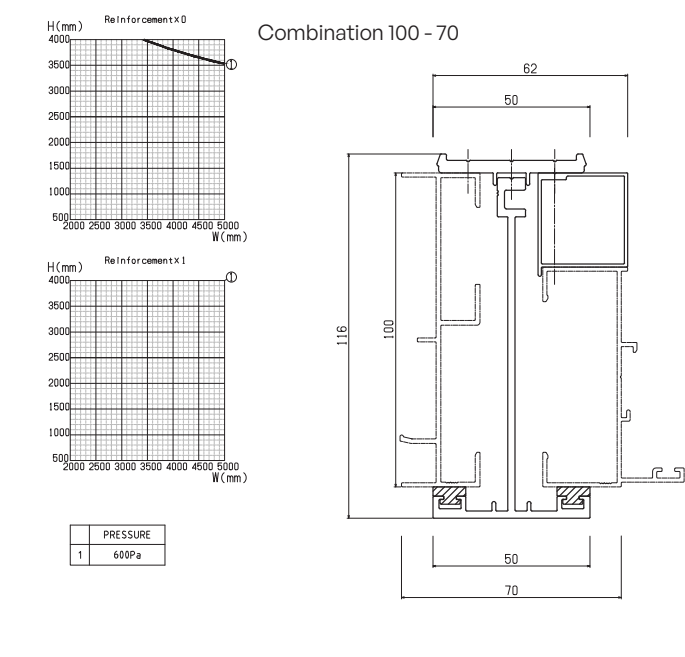
Protruding Inside



1	PRESSURE
1	600Pa

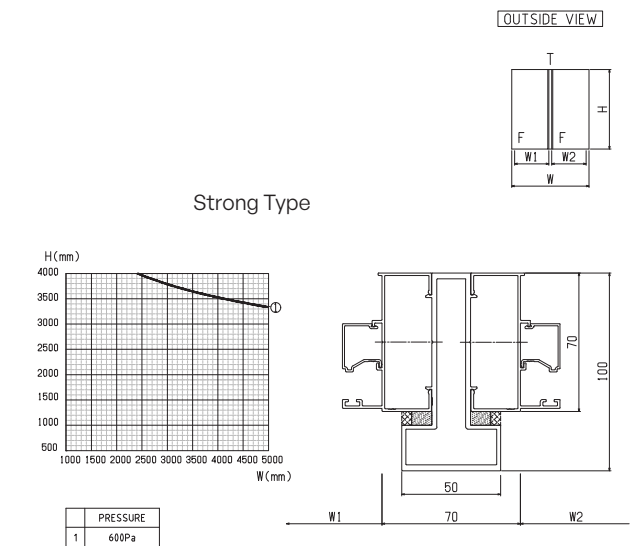
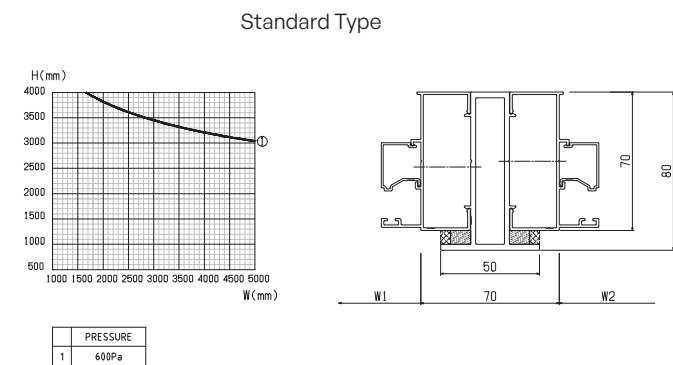
T-Mullion Combination
SL-SL / TH-TH / CA-CA / FIX-FIX

Available for
SL : 2 & 4 Leaves glass groove 12 mm, 14 mm, and 22 mm
FIX : glass groove 14 mm and 24 mm
TH & CA : glass groove 14 mm, 18 mm, 24 mm, and 26 mm



T-MULLION
FIX-FIX

Available for
glass groove 14 mm and 24 mm



COMMON OPTION MULLION

System Drawing & Size Limitation

T-MULLION TH-TH, CA-CA

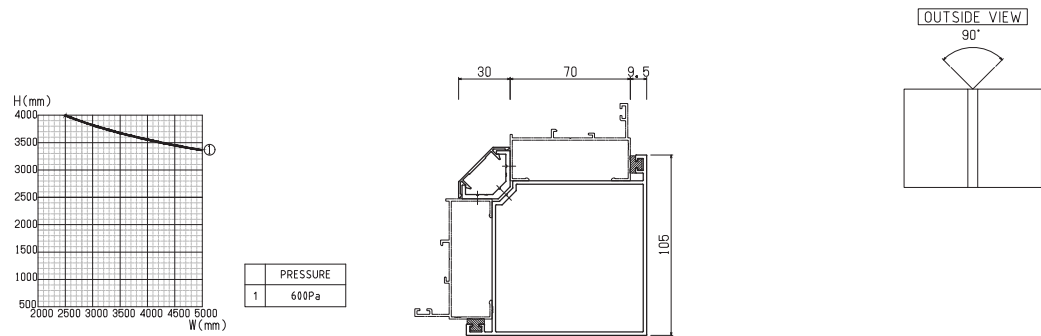
Available for
glass groove 14 mm, 18 mm, 24 mm, 26 mm



COMMON OPTION MULLION

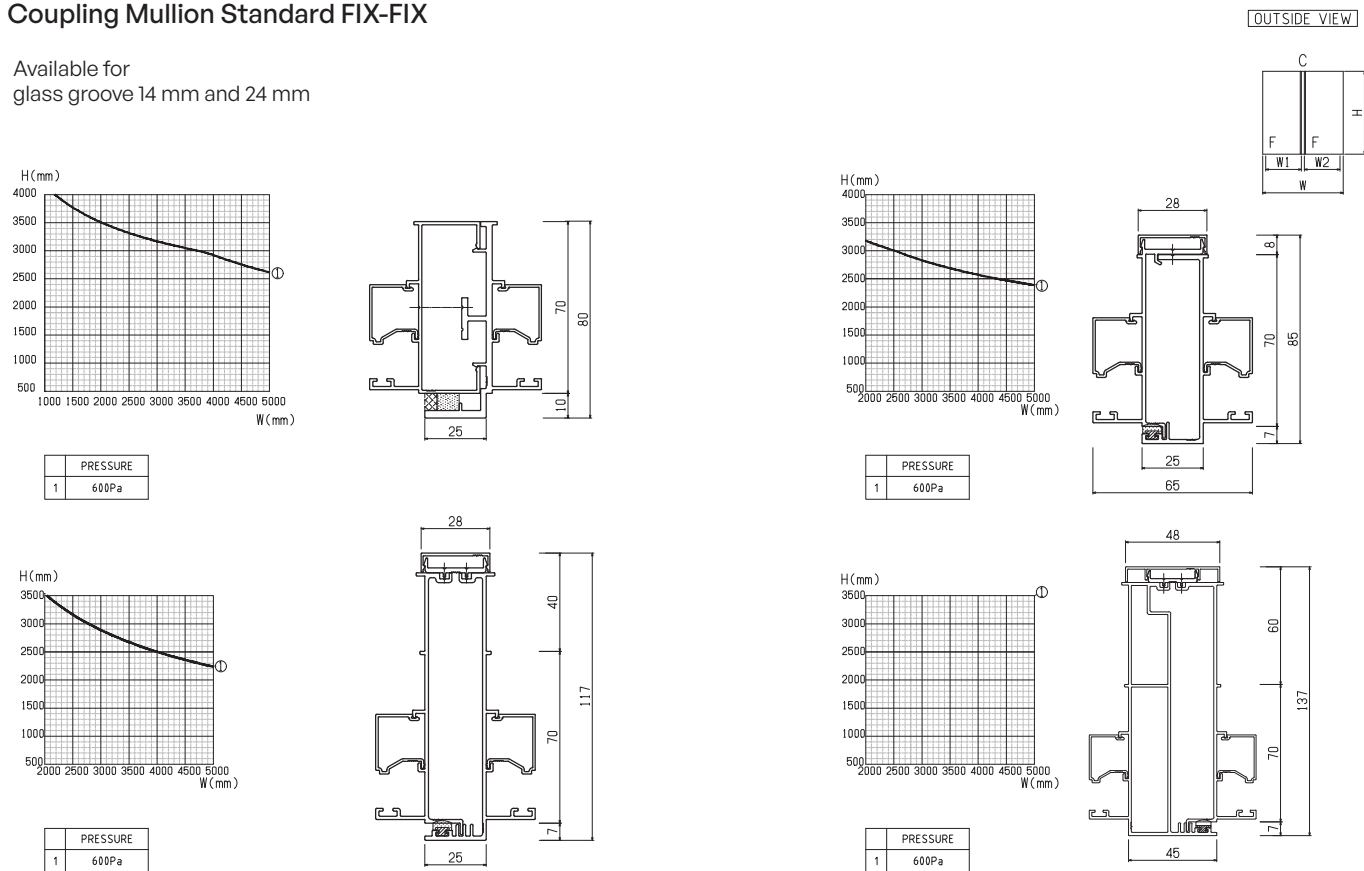
System Drawing & Size Limitation

Corner Mullion



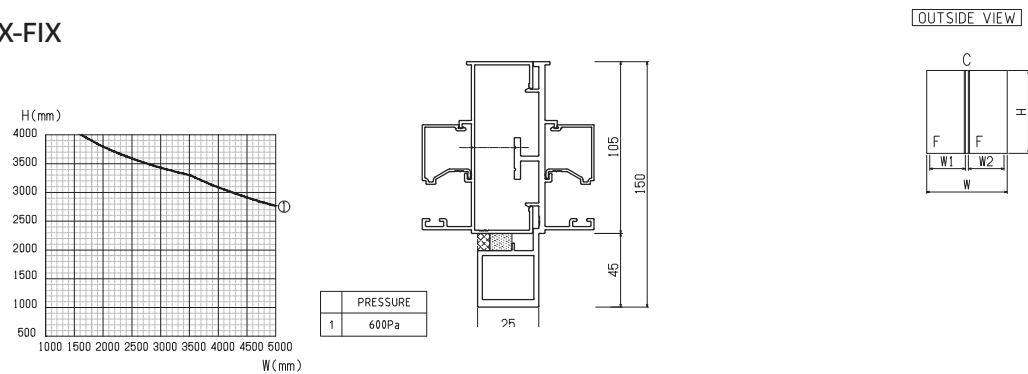
Coupling Mullion Standard FIX-FIX

Available for
glass groove 14 mm and 24 mm



Coupling Mullion Strong FIX-FIX

Available for
glass groove 12 mm and 24 mm

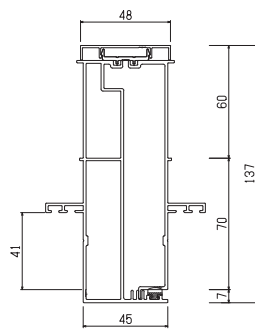
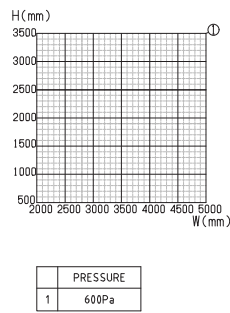
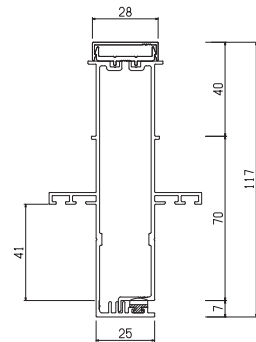
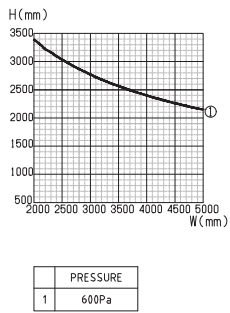
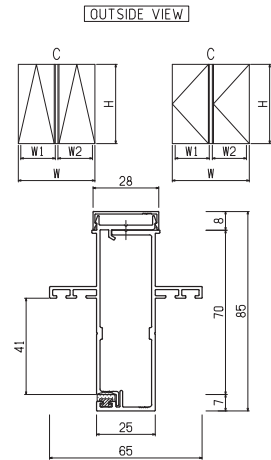
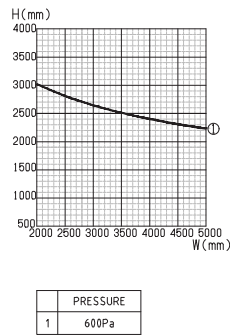
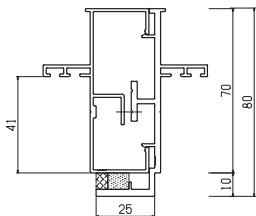
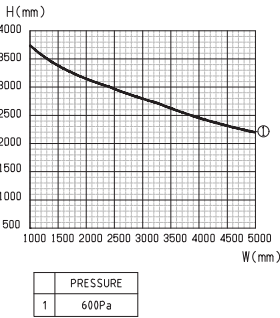


COMMON OPTION MULLION

System Drawing & Size Limitation

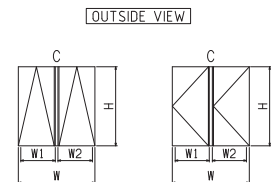
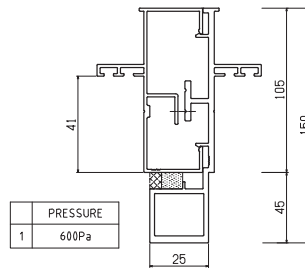
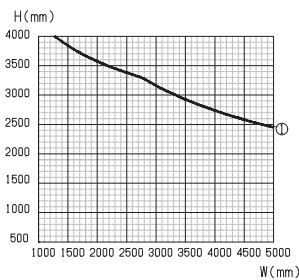
Coupling Mullion Standard
TH-TH, CA-CA

Available for
glass groove 12 mm and 24 mm



Coupling Mullion Strong
TH-TH, CA-CA

Available for
glass groove 14 mm and 24 mm



COMMON OPTION TRANSOM

VARIATION

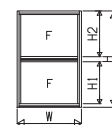
● Samples in this catalog

		Upper			
Lower		Fix	Casement	Top hung	Sliding
	FIX				
	Casement				
	Top hung				
	Sliding				
	Door				

COMMON OPTION TRANSOM System Drawing & Size Limitation

FIX/FIX

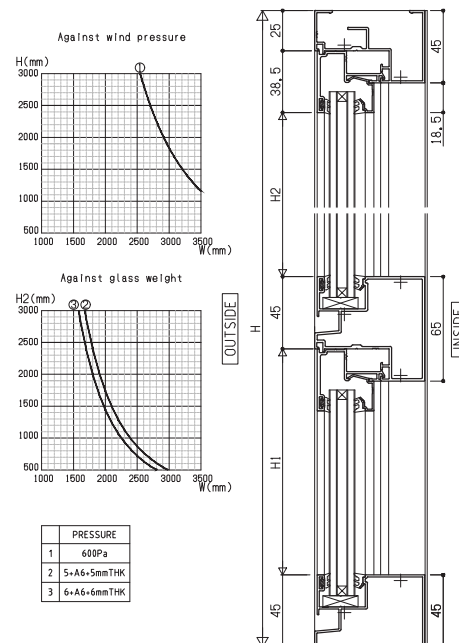
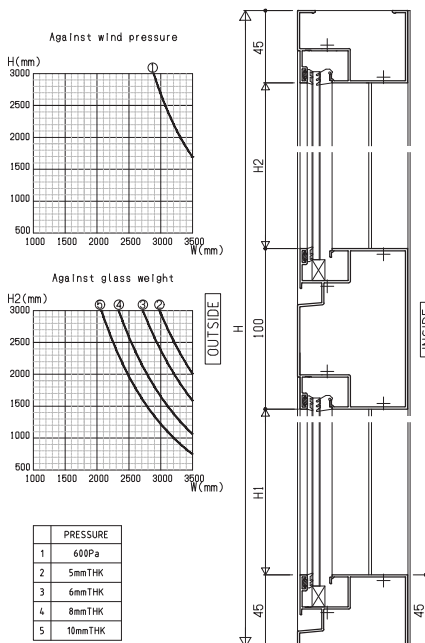
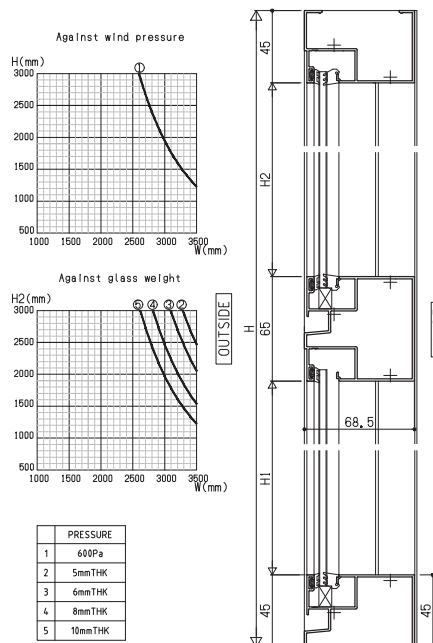
OUTSIDE VIEW



Transom 65
Glass groove 14mm

Transom 100
Glass groove 14mm

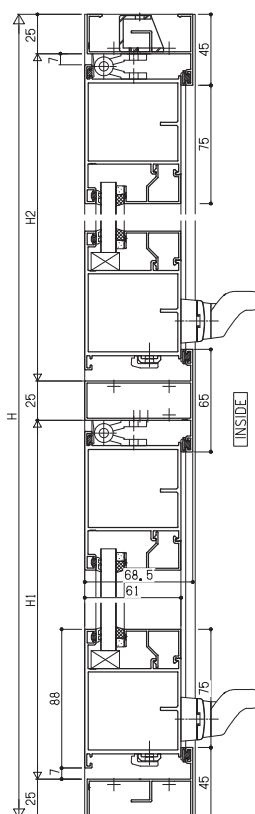
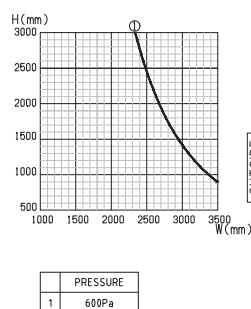
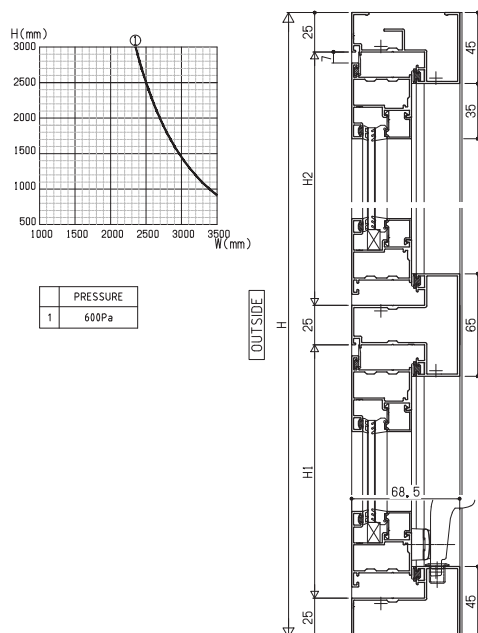
Glass groove 24mm



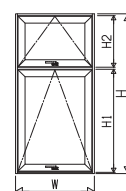
TH/TH, TH/CA

Glass groove 14mm & 24mm

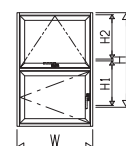
Glass groove 18mm & 26mm



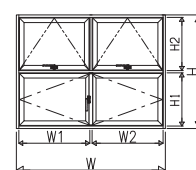
OUTSIDE VIEW



OUTSIDE VIEW



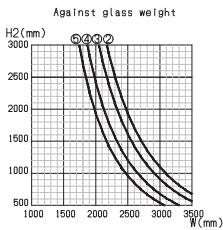
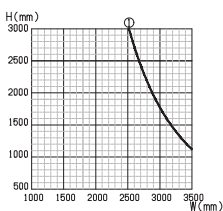
OUTSIDE VIEW



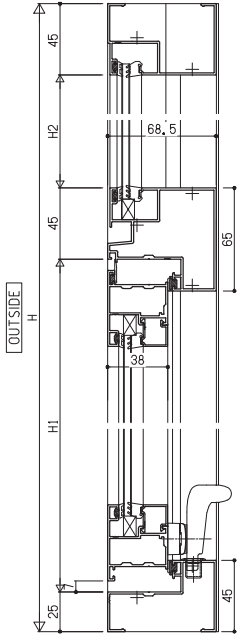
COMMON OPTION TRANSOM System Drawing & Size Limitation

FIX/TH, FIX/CA

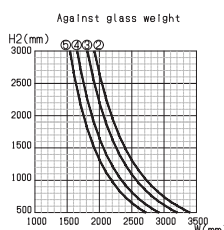
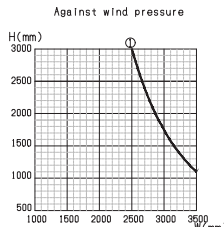
F: Glass groove 14mm
TH/CA: Glass groove 14mm & 24mm



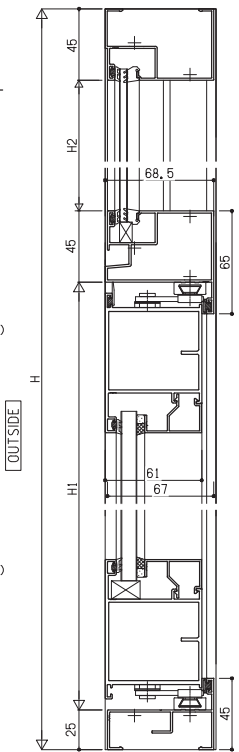
1	600Pa
2	5mmTHK
3	6mmTHK
4	8mmTHK
5	10mmTHK



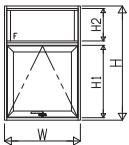
F: Glass groove 14mm
TH/CA: Glass groove 18mm & 26mm



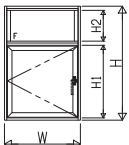
1	600Pa
2	5mmTHK
3	6mmTHK
4	8mmTHK
5	10mmTHK



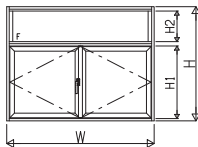
OUTSIDE VIEW



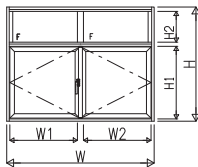
OUTSIDE VIEW



OUTSIDE VIEW

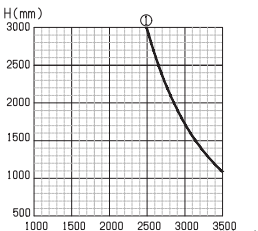


OUTSIDE VIEW

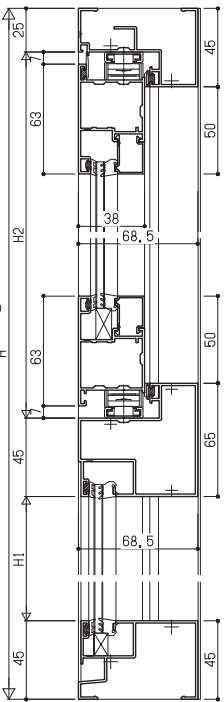


TH/FIX, CA/FIX

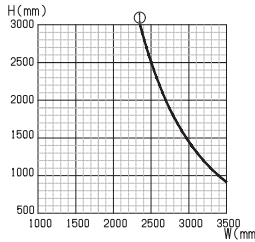
TH/CA: Glass groove 14mm & 24mm
F: Glass groove 14mm



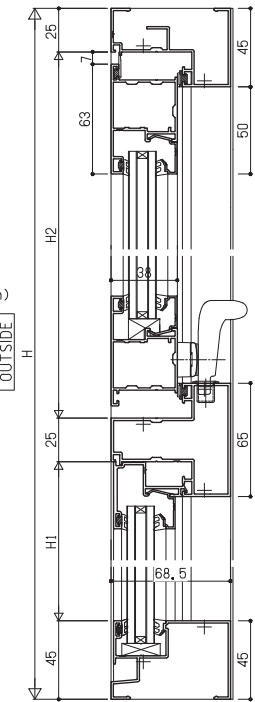
1	600Pa
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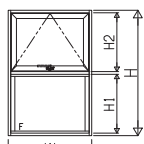
TH/CA: Glass groove 14mm & 24mm
F: Glass groove 24mm



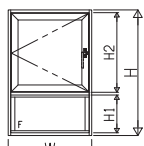
1	600Pa
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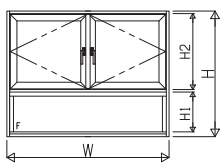
OUTSIDE VIEW



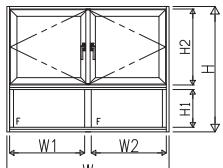
OUTSIDE VIEW



OUTSIDE VIEW

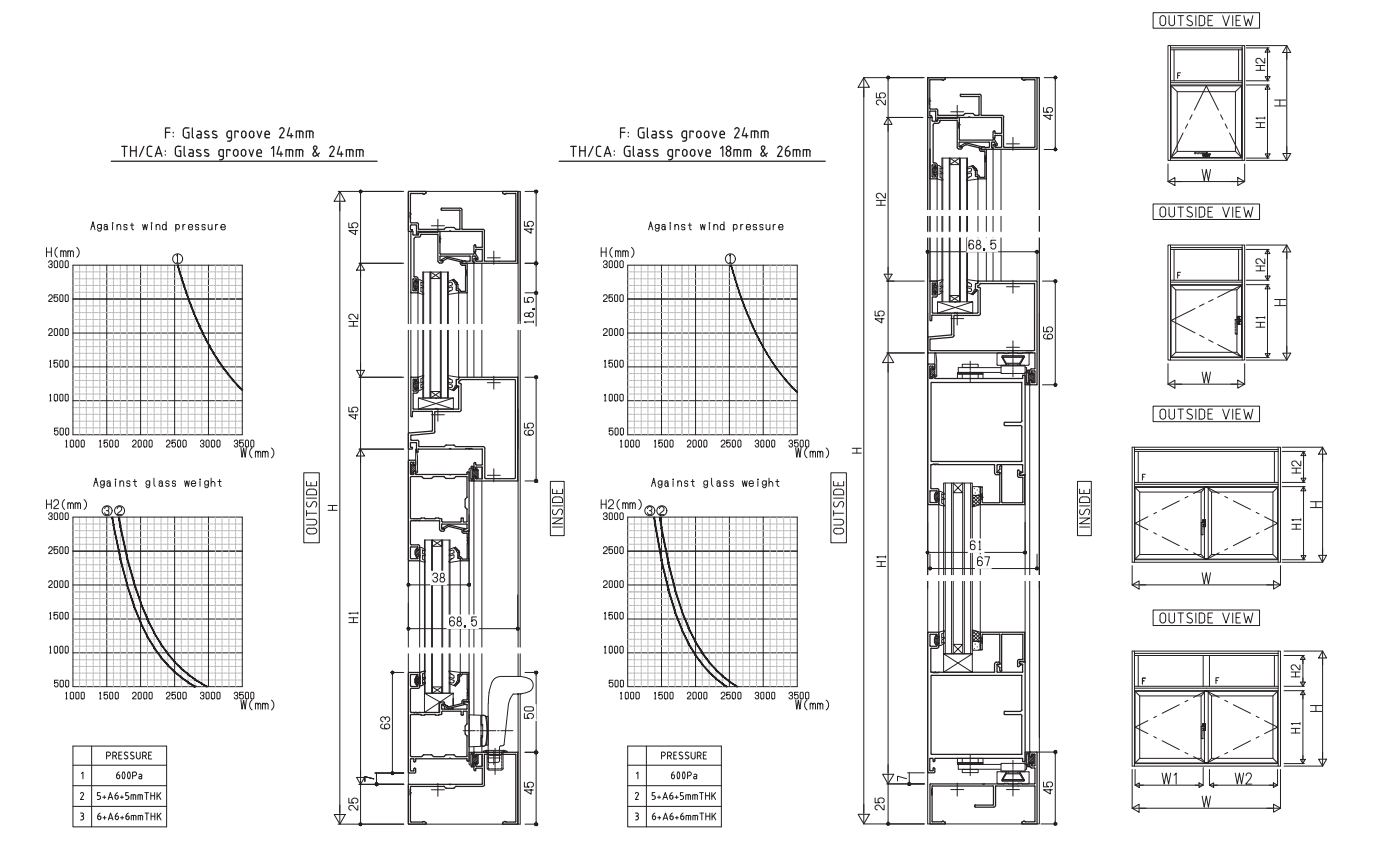


OUTSIDE VIEW

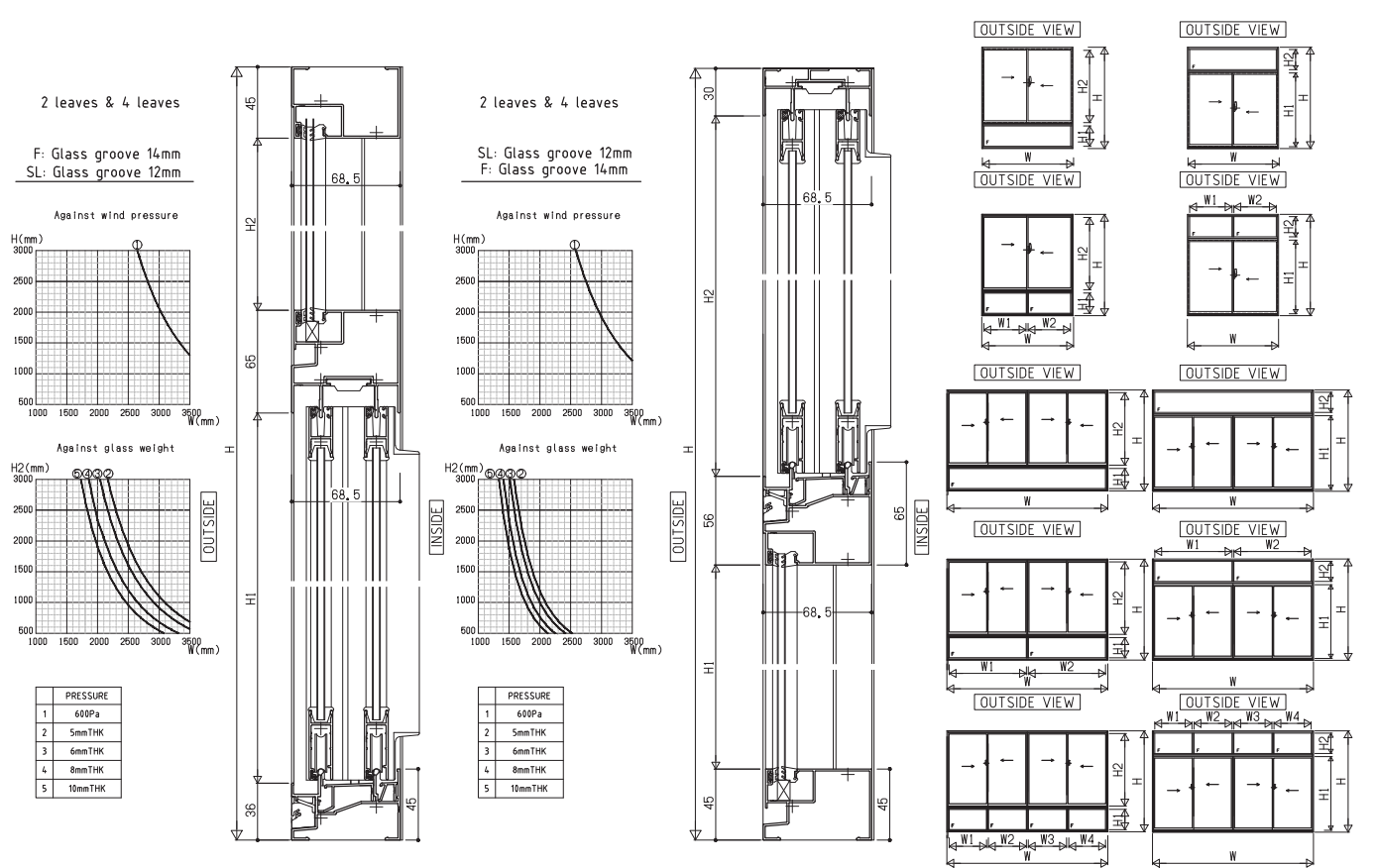


COMMON OPTION TRANSOM System Drawing & Size Limitation

Transom FIX/TH, FIX/CA

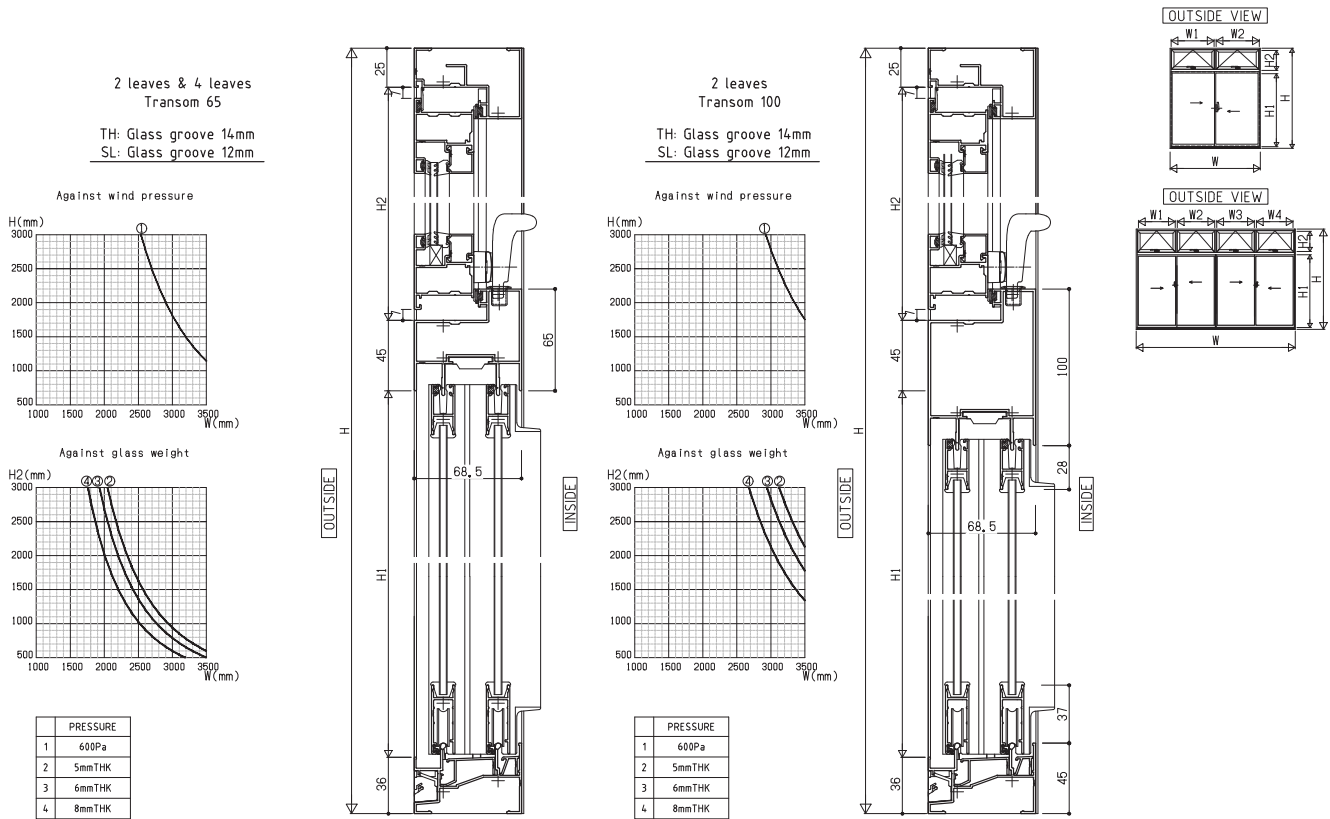


Transom 65 SL/FIX

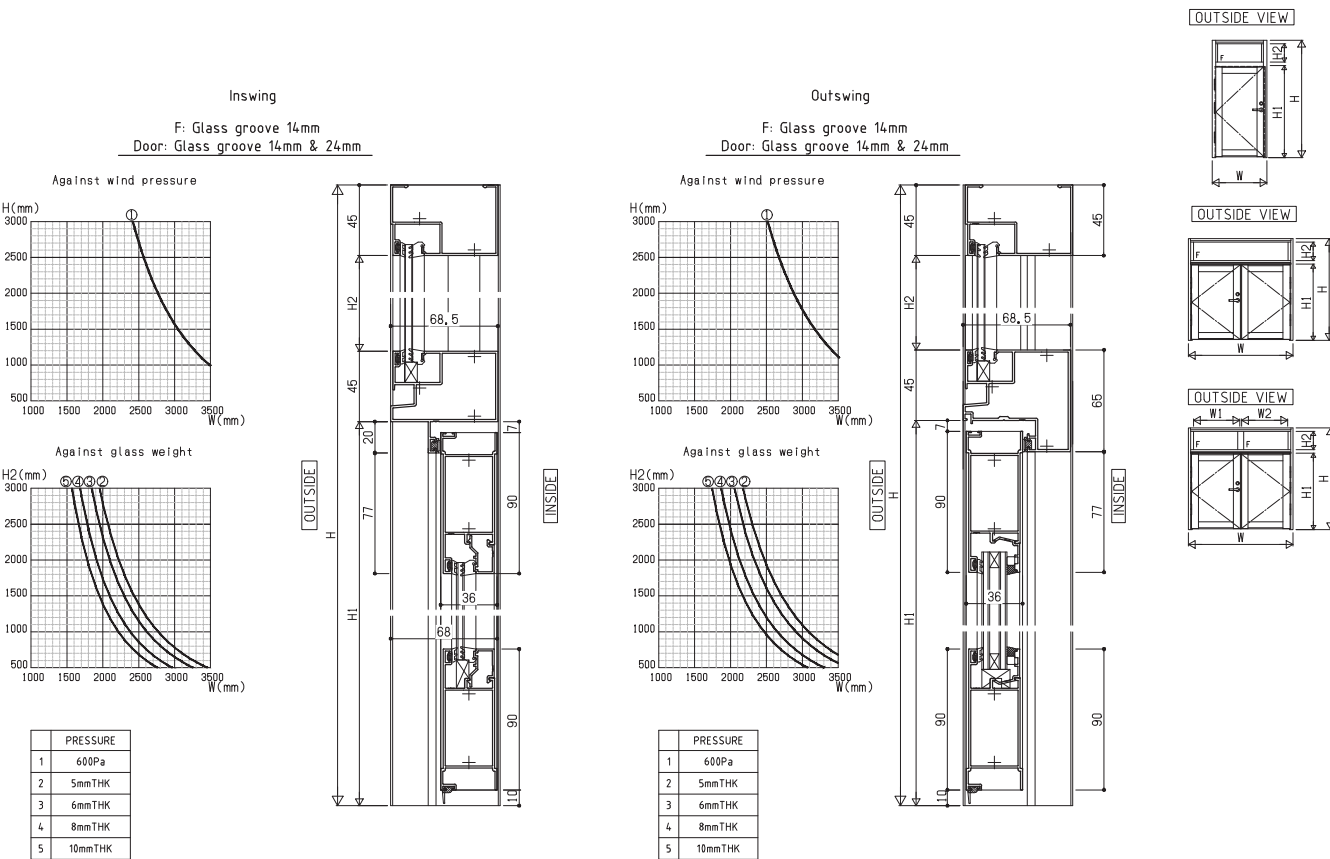


COMMON OPTION TRANSOM System Drawing & Size Limitation

TH/SL

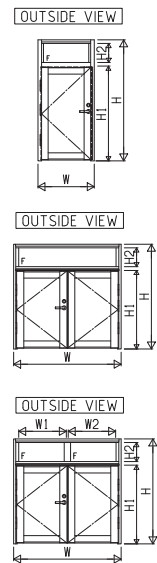
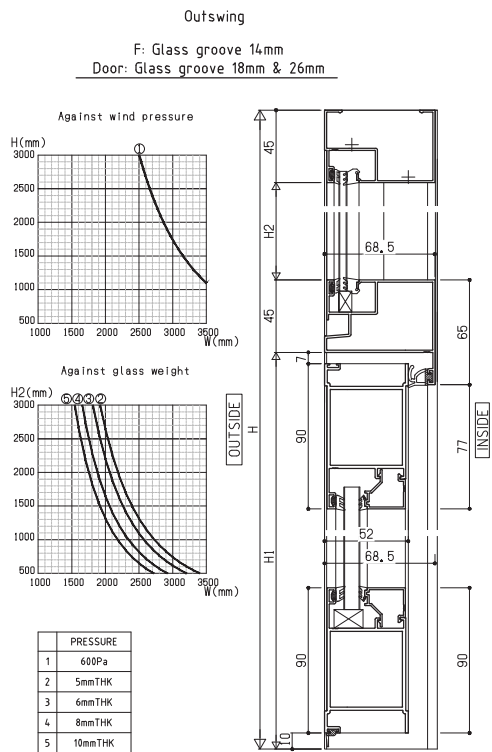
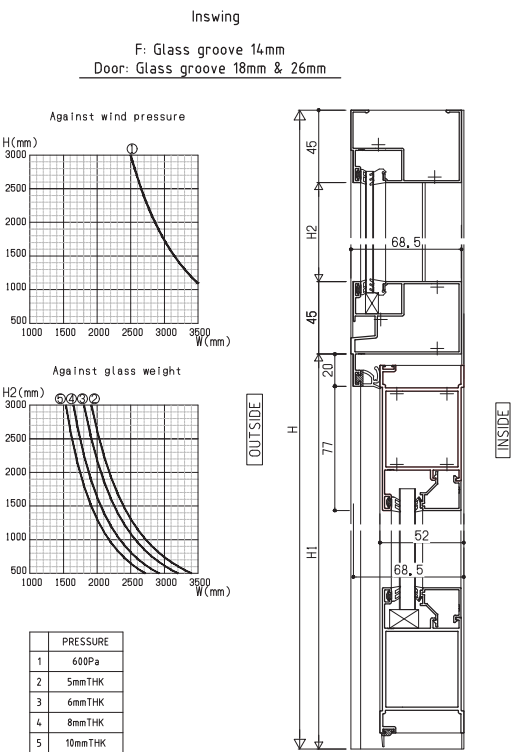


FIX/DOOR DT = 36

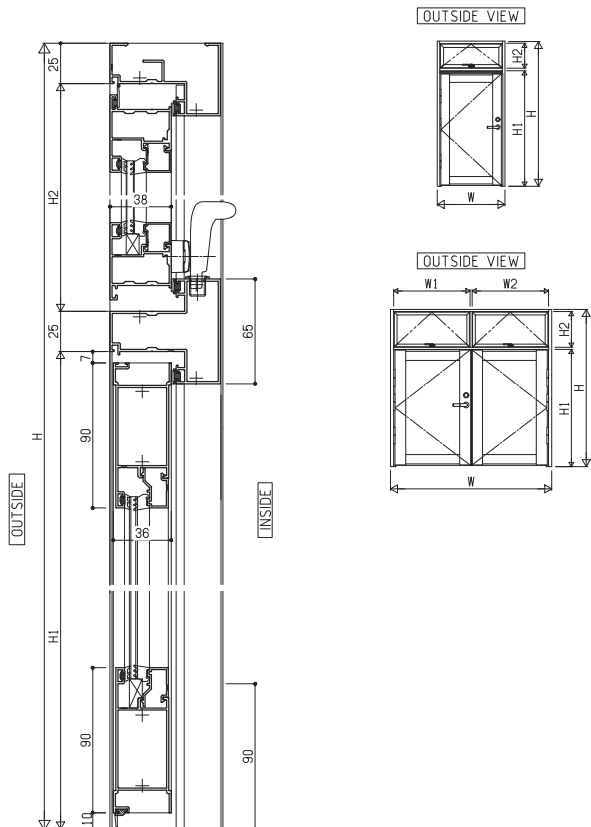
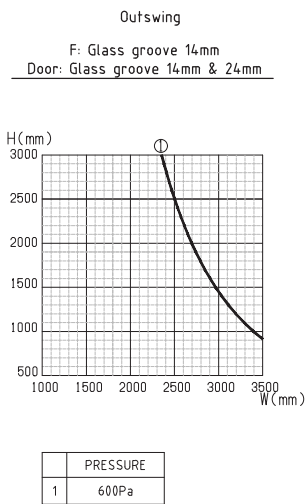


COMMON OPTION TRANSOM System Drawing & Size Limitation

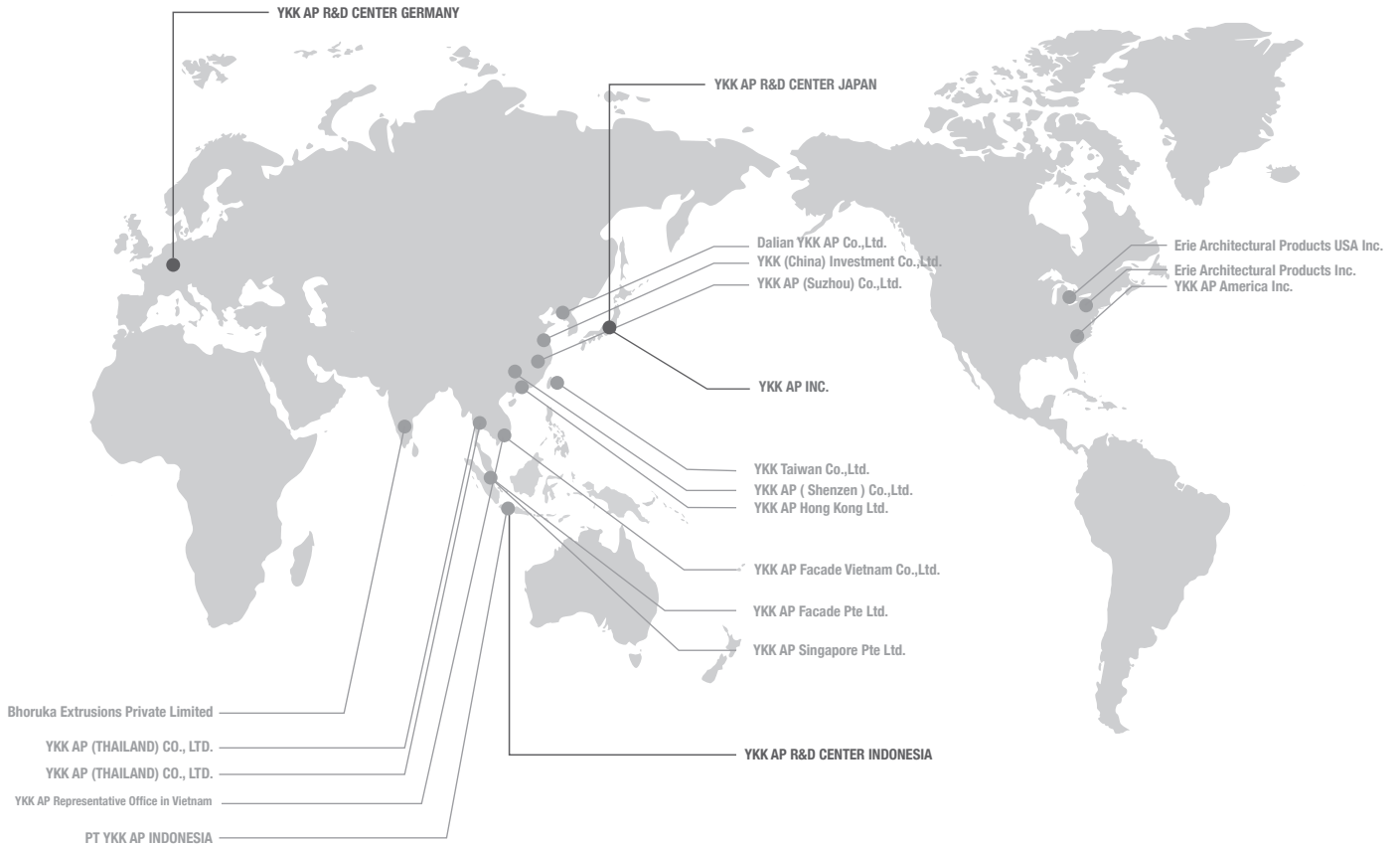
FIX/DOOR DT = 52



TH/DOOR DT = 36



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