

**YKK  
ap**®

**LOW - RISE  
600 Pa**



# **NEXSTA - L** TM

**PT YKK AP INDONESIA**  
ENGLISH VERSION

**FEB 2024**

**FOR PRO USER**

[WWW.YKKAP.CO.ID](http://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

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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.

# CONCEPT

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## 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

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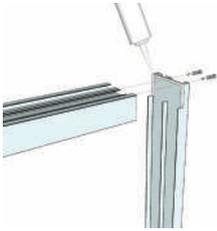


# HIGH WATERPROOFNESS ACHIEVED BY YKK AP

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.

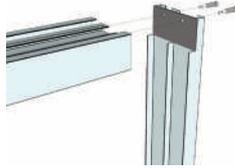
## W Proof Joint

### General metal joint (Bar window)



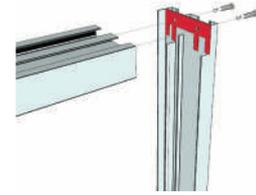
Sealant application after jointing

### 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)



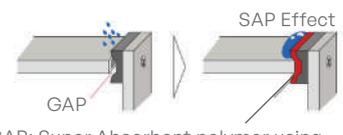
\*Product label



**W PROOF JOINT**  
Corner joint with high waterproof performance

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

Secret of W Proof Joint

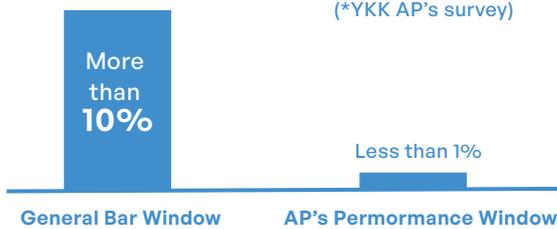


SAP Effect

GAP

\*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

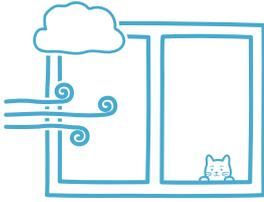
We test water tightness of our products in our own Testing Center, and confirm the performance before product delivery. In Indonesia, this test is possible only in YKK AP.



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

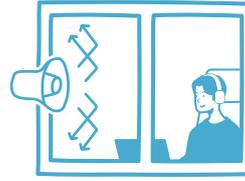
\*Ventilation Door 1000 Pa  
Deflection L/125



## Water Tightness

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

\*Please check information for  
other window types,.



## Sound Insulation

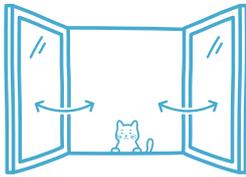
Sound proof and promote energy  
saving  
Grade T-1 (-25dB) and T-2(-30  
dB)(JIS), Rw 24-30 (ISO)



## Air Infiltration

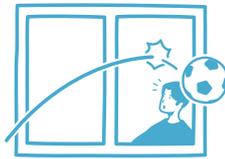
Dust-free and Airtight system  
Grade A-4 (JIS)

\* Ventilation Door  
Grade A-2 (JIS)



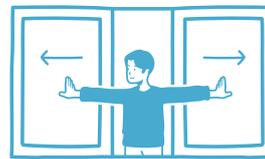
## Open-Close Test

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)**

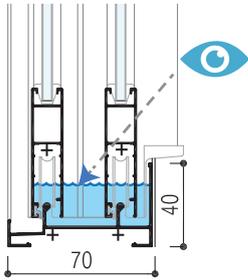
Basic wind speed  $V_s=33.5$  m/s ( Kuala Lumpur )  
Category 3: Terrain with numerous closely spaced  
obstructions 3.0 m to 5.0 m high such as area of subur-  
ban housing.

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

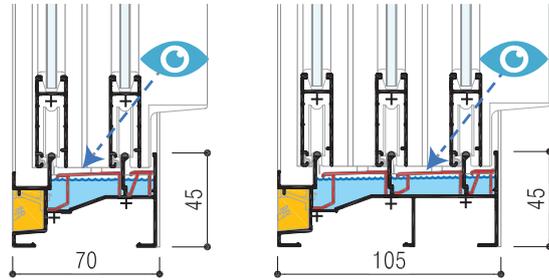
## WATER TIGHTNESS

### Common Sliding



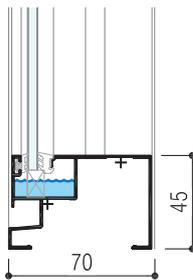
During the rain, water will be accumulated in Bottom Sill, and the water could be seen from inside because of the adopted water head system

### NEXSTA Sliding



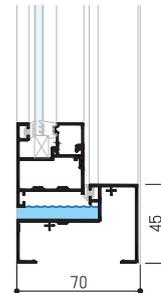
Bottom Sill with cover that makes the water could not be seen up to 200 Pa level.

### NEXSTA Fix



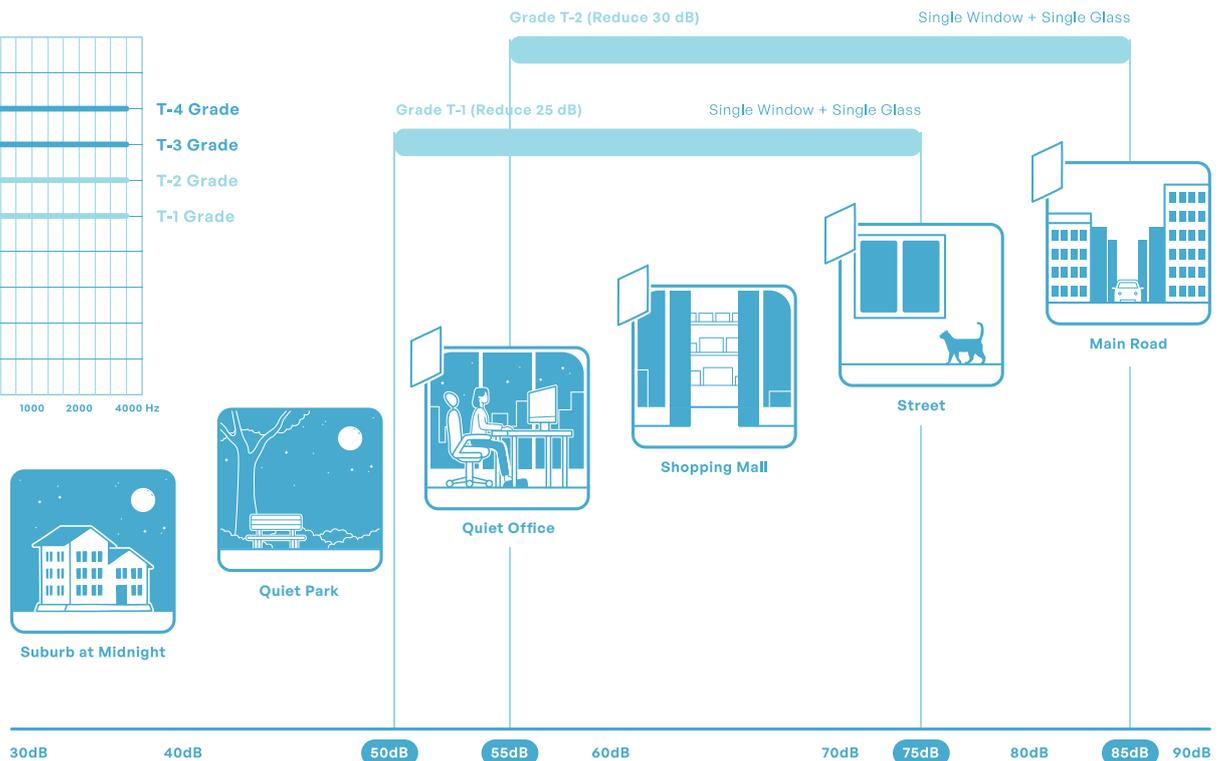
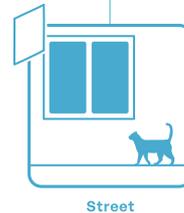
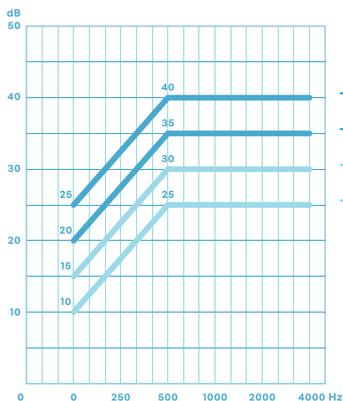
Adopting Isobaric System as an improved system to substitute the use of drain valve.

### NEXSTA Top Hung & Casement



Adopting Isobaric System.

## SOUND INSULATION



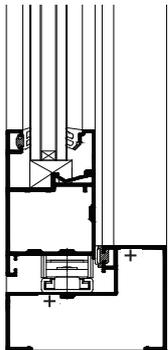
# GREEN BUILDING CONCEPT

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.

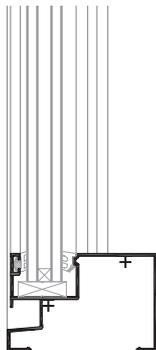


## DOUBLE GLAZING

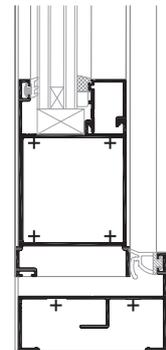
Casement, Top Hung and Door  
Glass Groove : 24 mm



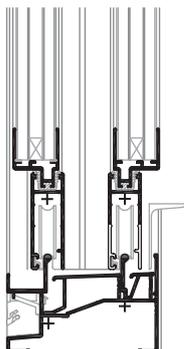
Fix  
Glass Groove : 24 mm



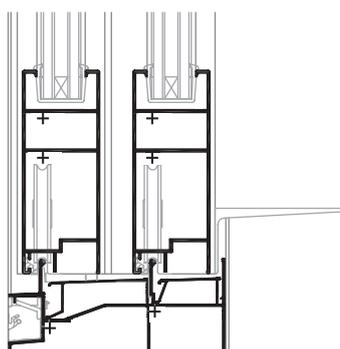
LS Type  
Casement, Top Hung and Door  
Glass Groove : 26 mm



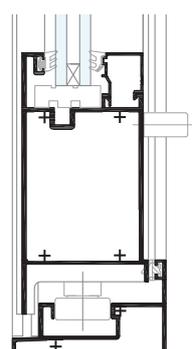
Sliding  
Glass Groove : 18 mm



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.**

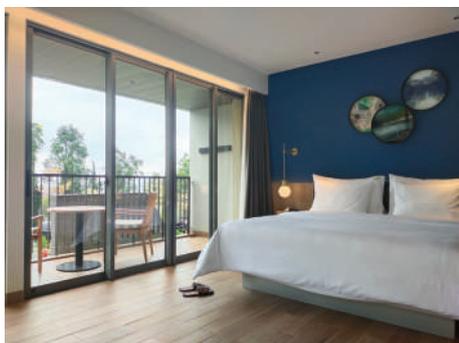
R&D Center	Testing Center	Anodizing/Coating	Fabrication
 <ul style="list-style-type: none"> <li>• Climate observation with BMKG</li> <li>• Collaboratively study with PUPR, ITB, and Japanese Univ.</li> </ul>	 <ul style="list-style-type: none"> <li>• The only facility in Indonesia</li> <li>• All Products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

# 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

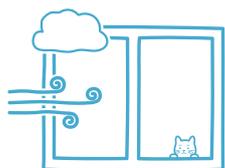


BROWN



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)



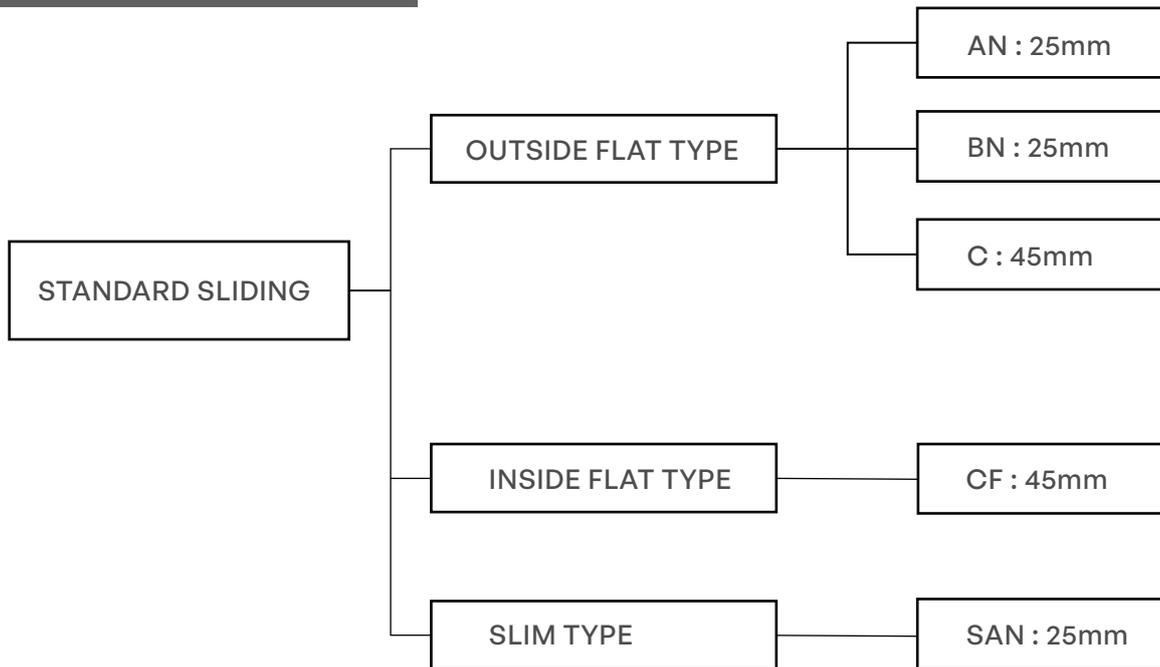
**Double Glazing**



\* High Sound Insulation Type

# STANDARD SLIDING

## PRODUCT DIAGRAM



H	Depth 70
3.0m ~ 2.0m	 Slim <b>SAN</b> <b>C</b> <b>CF</b> Inside Flat
2.0m ~	 <b>AN</b> <b>BN</b>

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



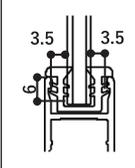
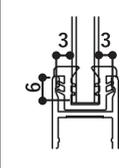
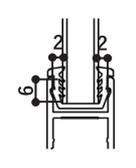
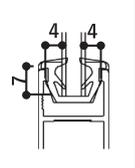
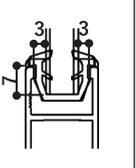
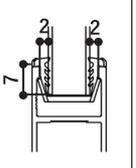
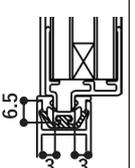
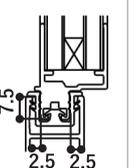
Sliding 4 Leaves



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

Window Type		Insect Screen 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

Item			Standard				Optional								
			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	DG, YW	DG, YW	DG				
Parts Number			5K-11484	5K-11485 5K-11486	5K-11487	2K-36775	9K-11361	9K-11362	5K-11484 5K-11485 5K-11486	5K-11487	5K-12932 5K-12933	5K-12485 5K-12486	9K-11363 9K-11364	5K-13245	4K-17110

● 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

#### • Inner Stopper

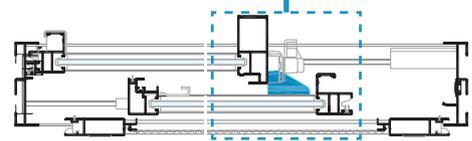
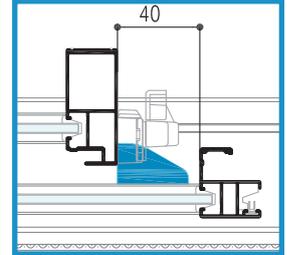
Upper inner stopper and Bottom inner stopper are the standard setting to prevent users from injury when opening the window.



Upper stopper

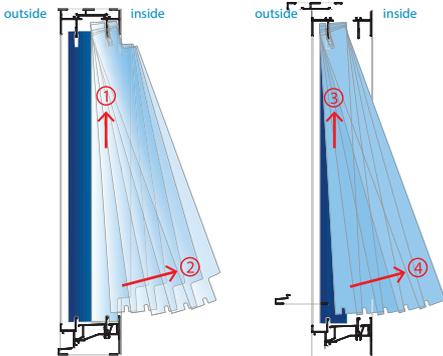


Bottom stopper



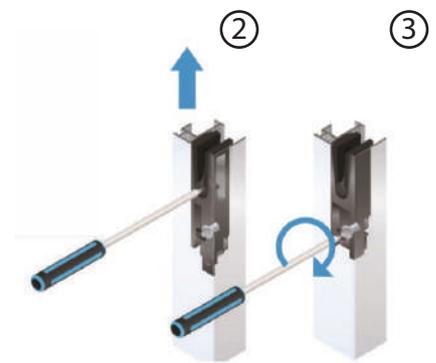
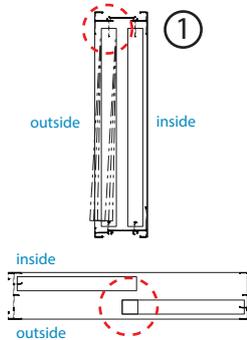
#### • Able to be Installed from Inside

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



#### • Inner Stopper

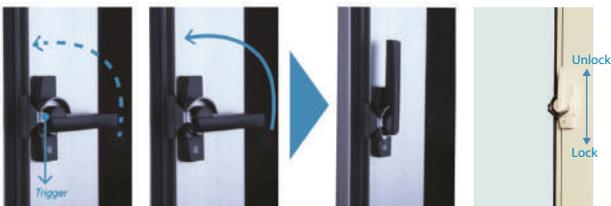
Latch is set at the top of inner frame as the standard to prevent track from jumping out.



### Security

#### • Crescent with False Locking Prevention

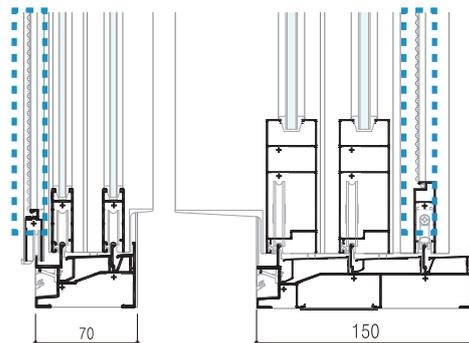
The lock function will work properly and effectively with this setting.



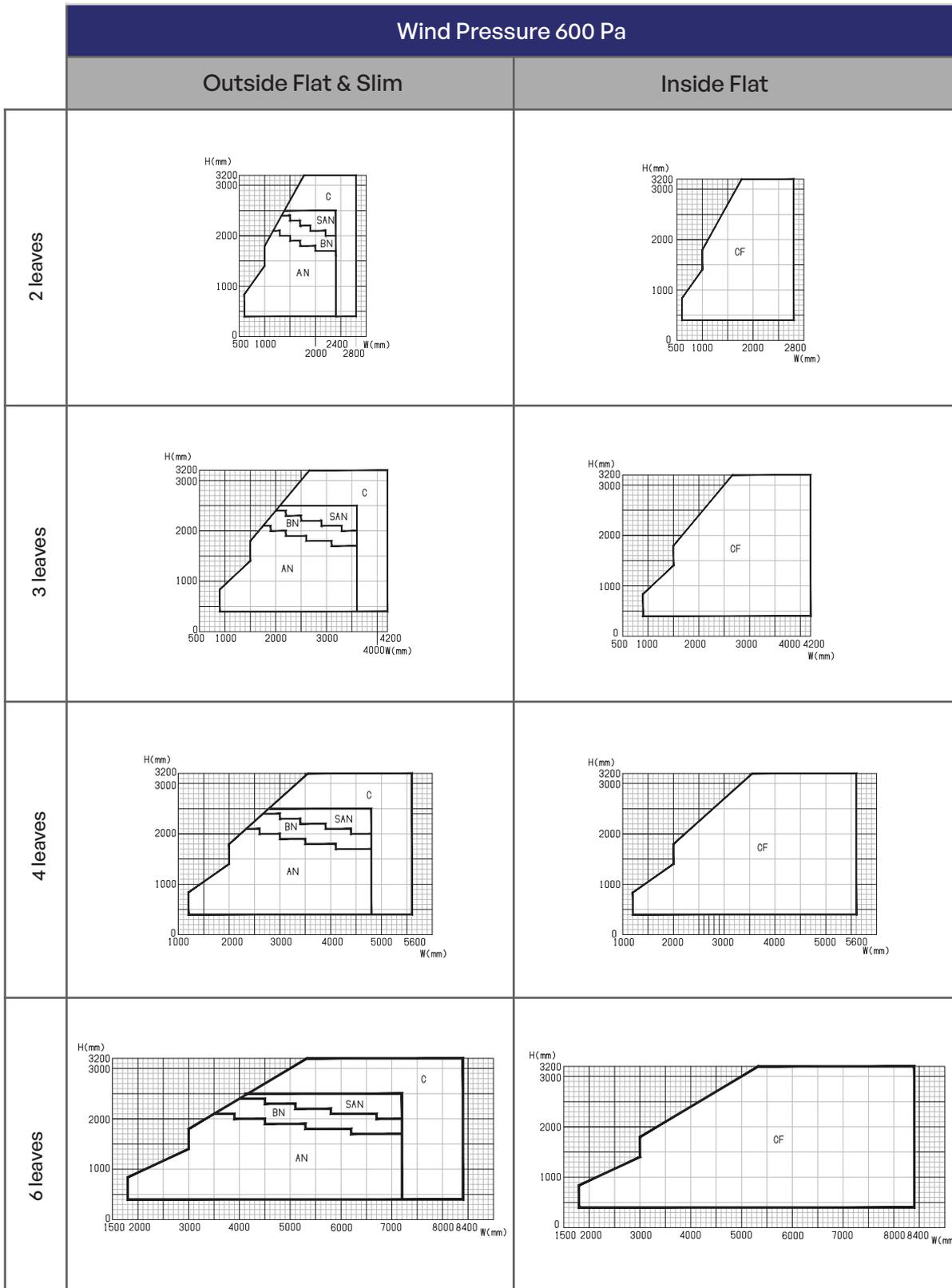
### Insect Screen

#### • Sliding 2 Tracks and 3 Track

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

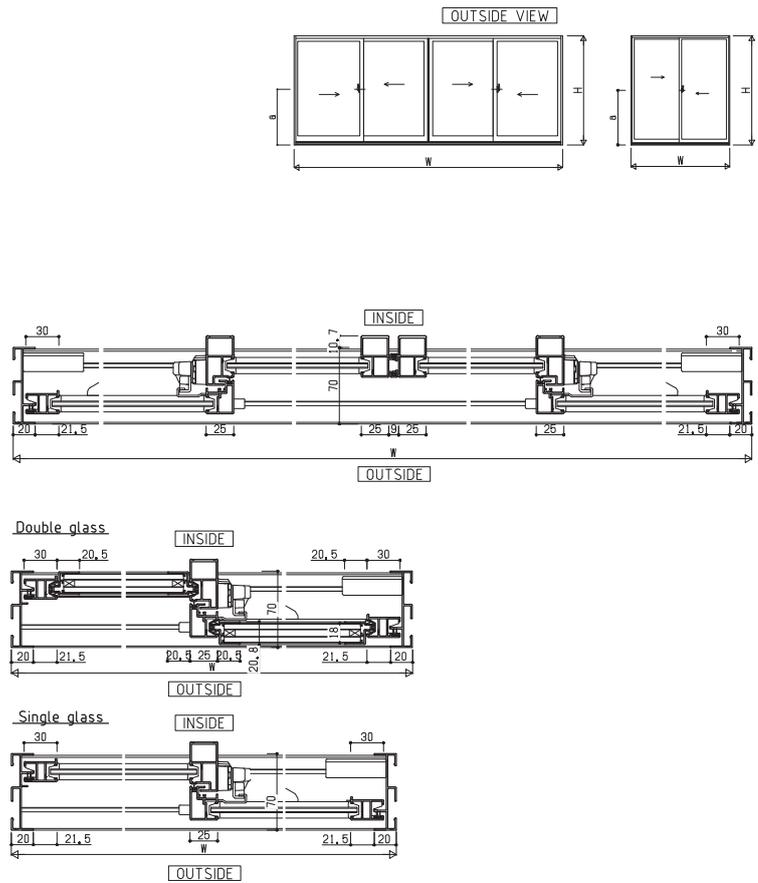
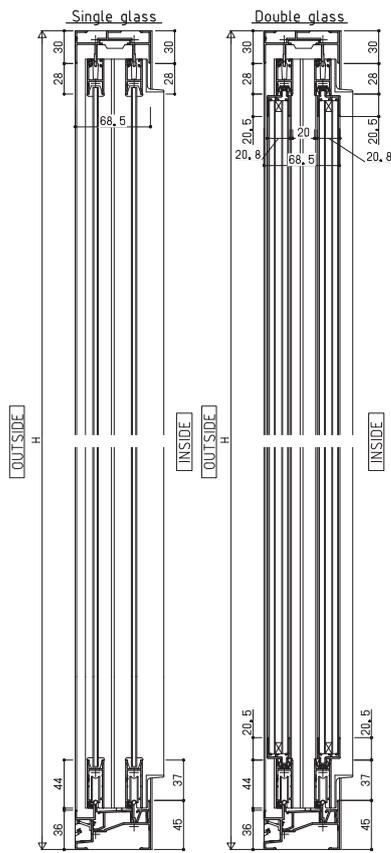


## SIZE LIMITATION

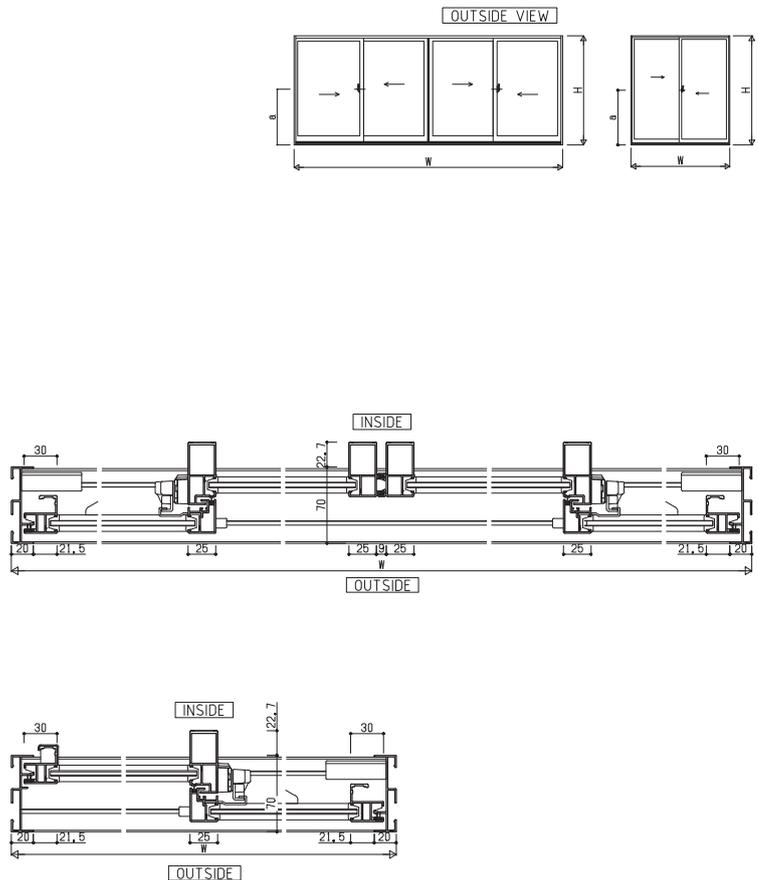
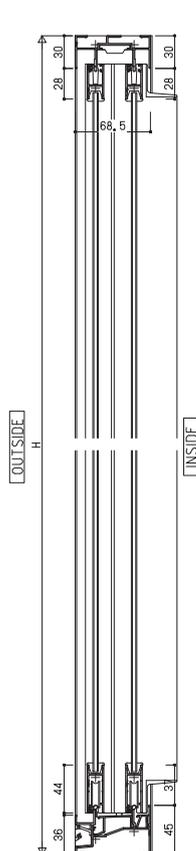


## AN - Type 2 & 4 Leaves

\*Please check P16 for size limitation



## BN - Type 2 & 4 Leaves

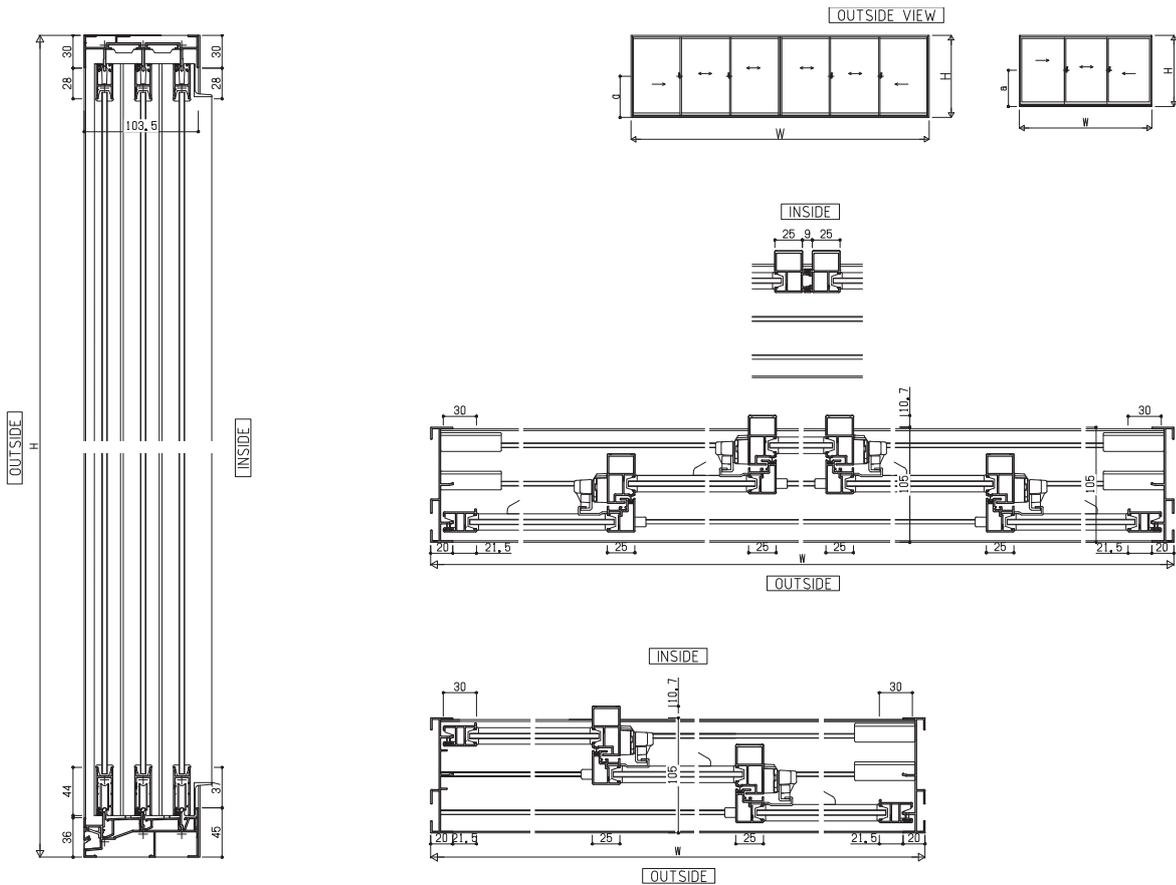


# STANDARD SLIDING

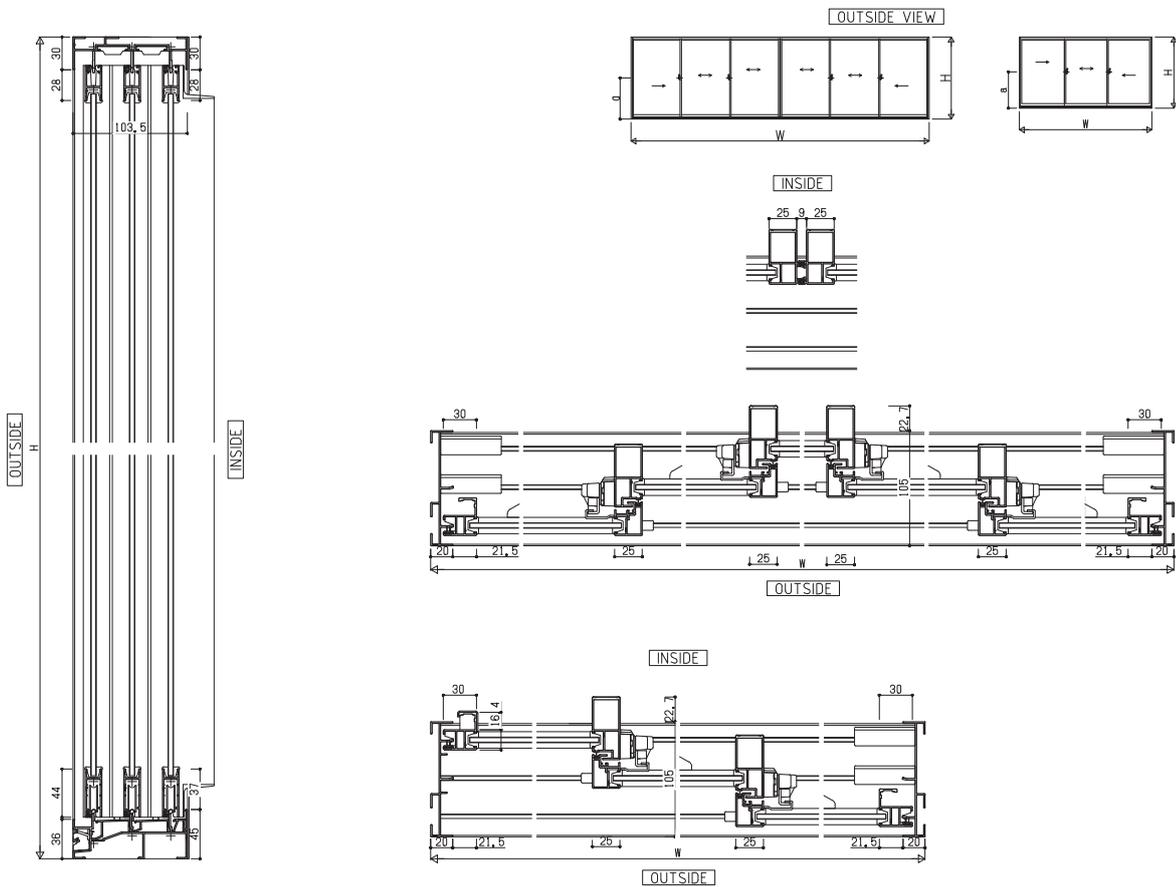
## System Drawing & Size Limitation

### AN - Type 3 & 6 Leaves

\*Please check P16 for size limitation



### BN - Type 3 & 6 Leaves

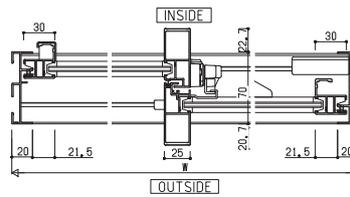
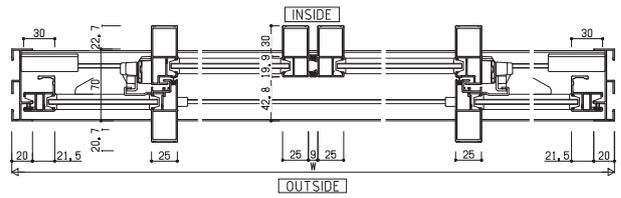
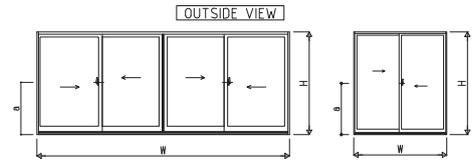
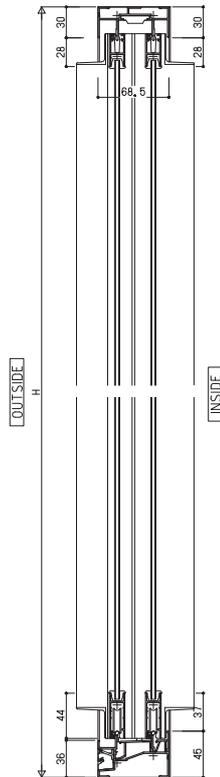


# STANDARD SLIDING

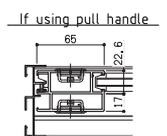
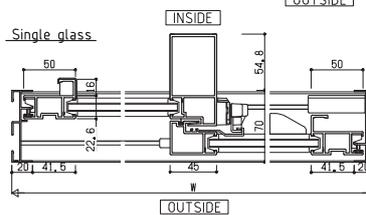
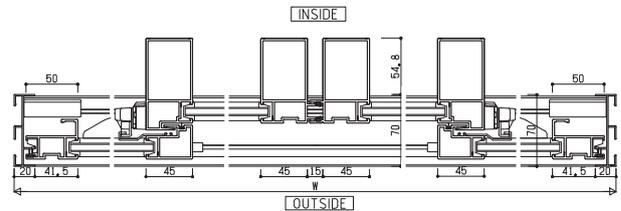
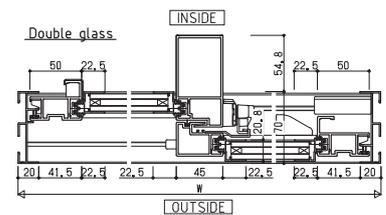
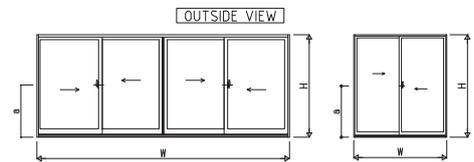
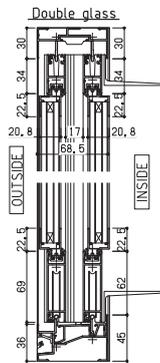
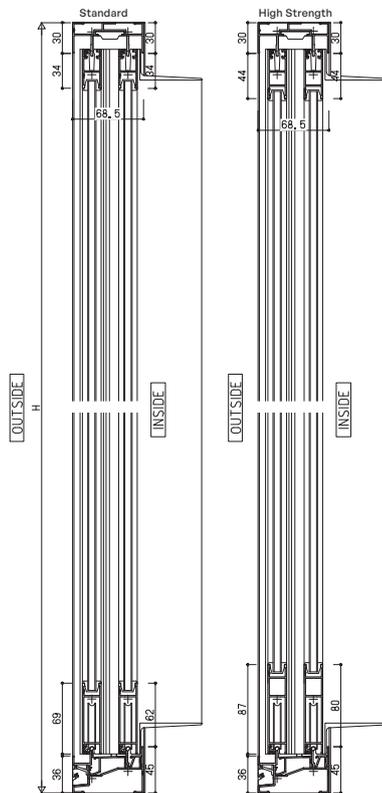
## System Drawing & Size Limitation

### SAN - Type 2 & 4 Leaves

\*Please check P16 for size limitation



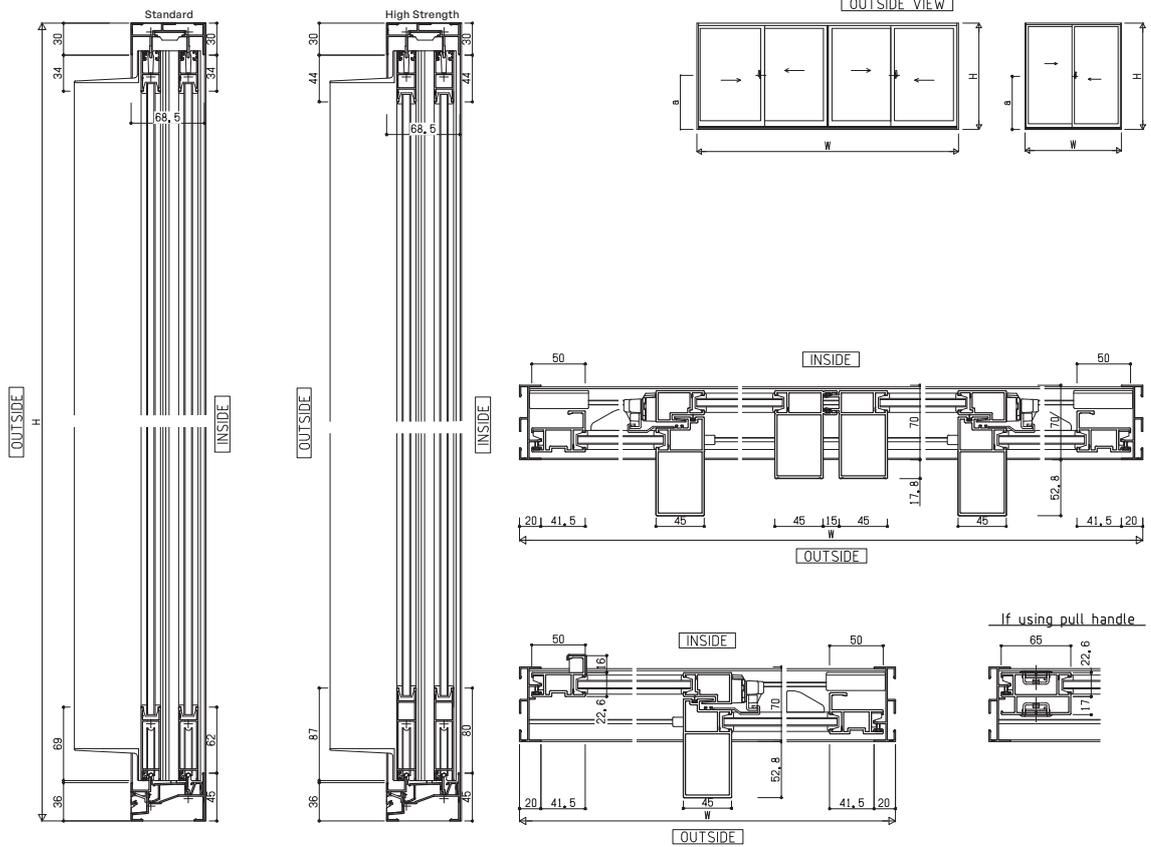
### C - Type 2 & 4 Leaves





## CF - Type 2 & 4 Leaves

\*Please check P16 for size limitation

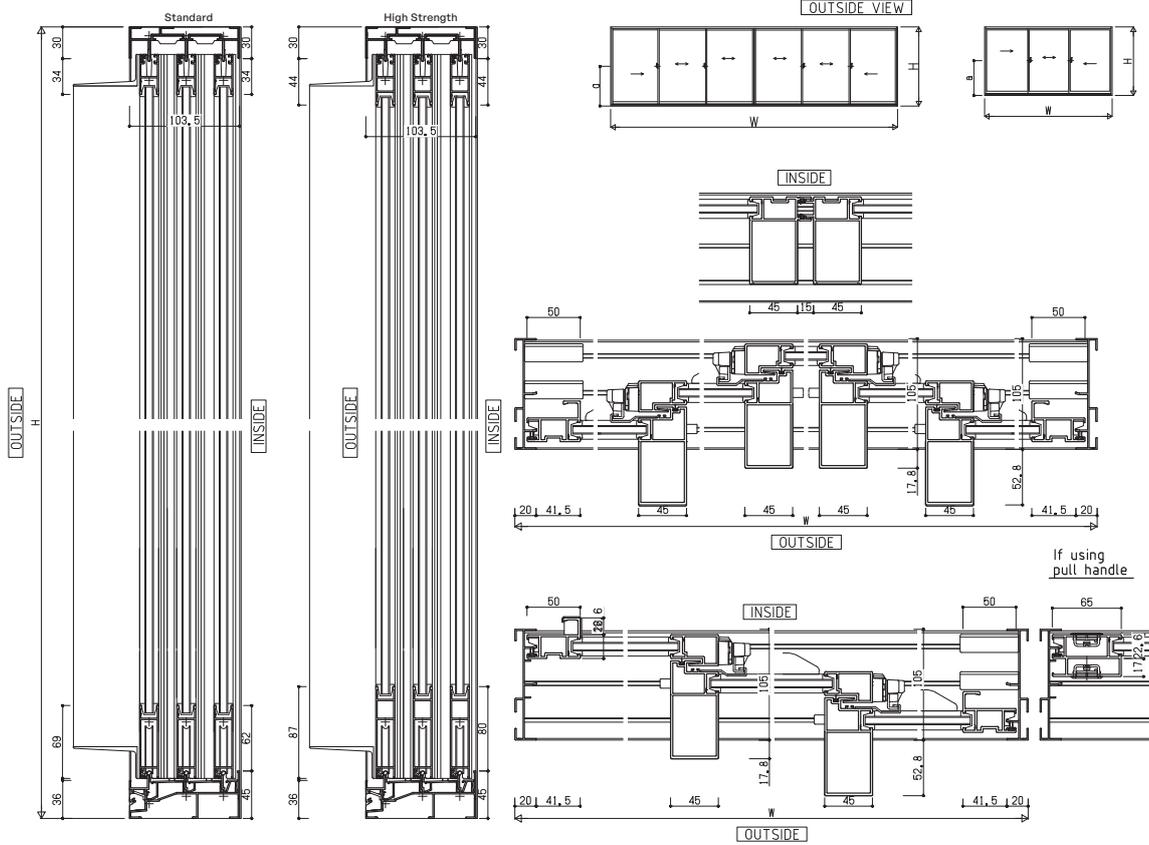


# STANDARD SLIDING

## System Drawing & Size Limitation

CF - Type 3 & 6 Leaves

\*Please check P16 for size limitation



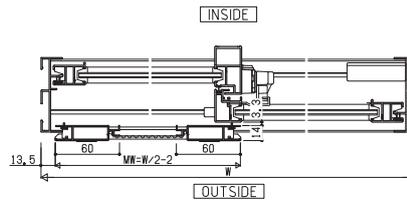
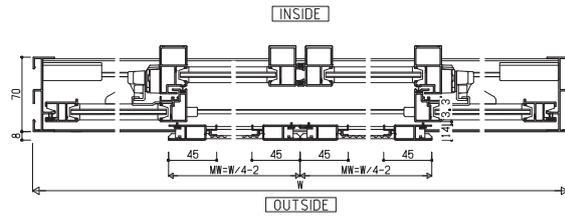
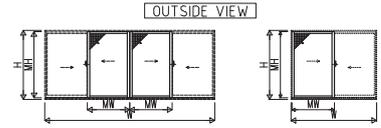
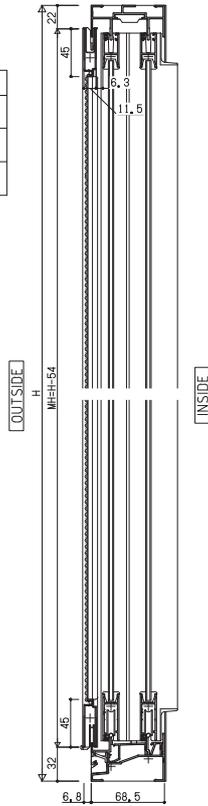
# STANDARD SLIDING

## System Drawing & Size Limitation Insect Screen (Optional)

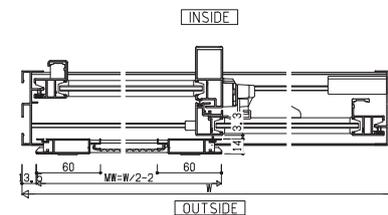
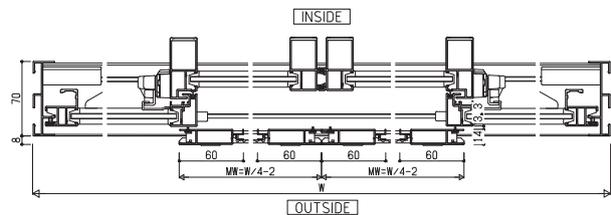
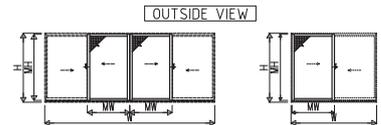
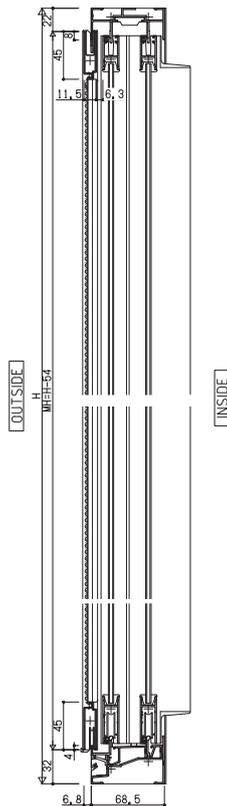
### Insect Screen AN - Type 2 & 4 Leaves

Size Limitation  
Insect Screen

	LEAVES	
	2	4
WIDTH	$298 \leq MW \leq 1198$	
HEIGHT	$346 \leq MH \leq 2346$	



### Insect Screen BN - Type 2 & 4 Leaves



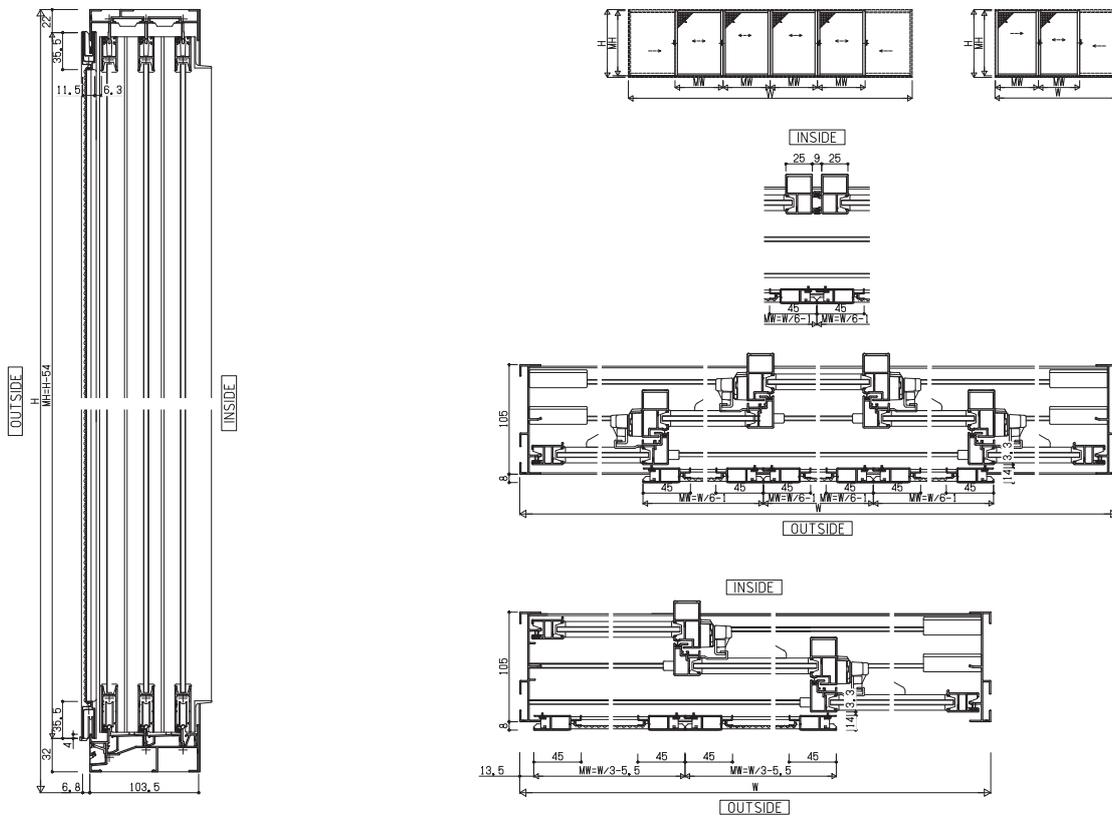
# STANDARD SLIDING

## System Drawing & Size Limitation Insect Screen (Optional)

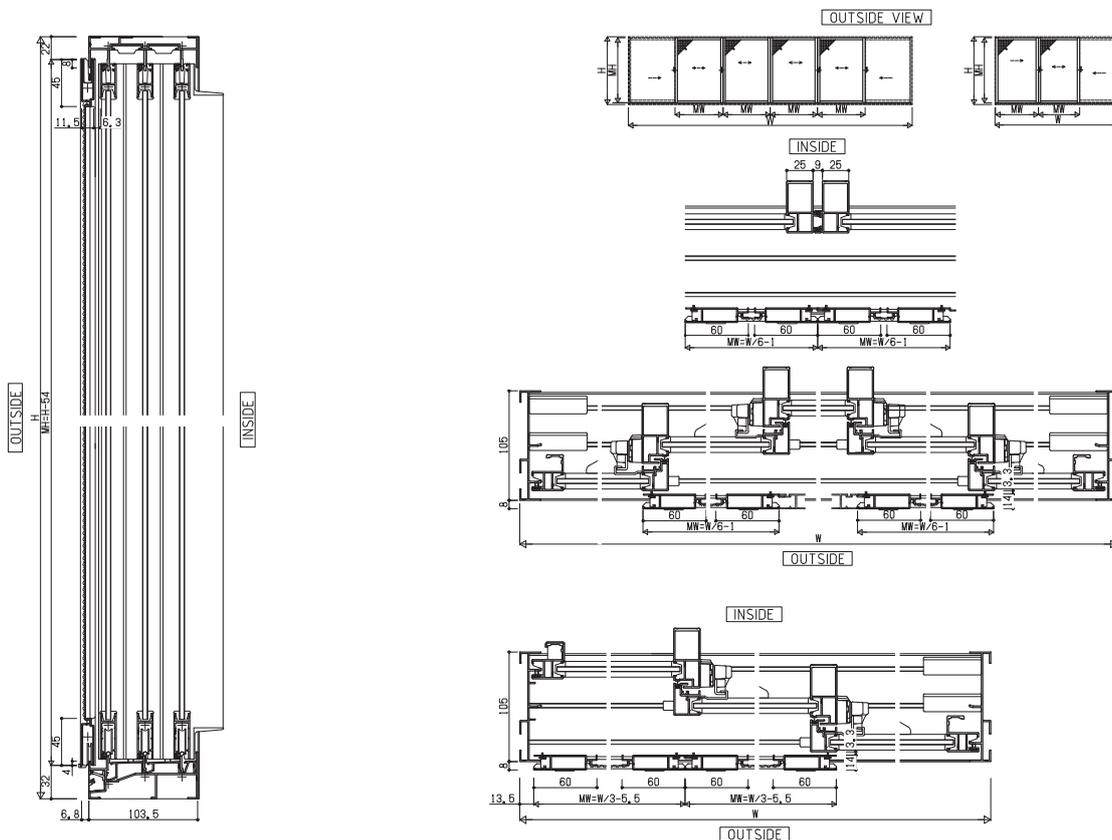
### Insect Screen AN - Type 3 & 6 Leaves

Size Limitation  
Insect Screen

	LEAVES	
	3	6
WIDTH	$295 \leq MW \leq 1195$	$295 \leq MW \leq 1199$
HEIGHT	$346 \leq MH \leq 2346$	



### Insect Screen BN - Type 3 & 6 Leaves

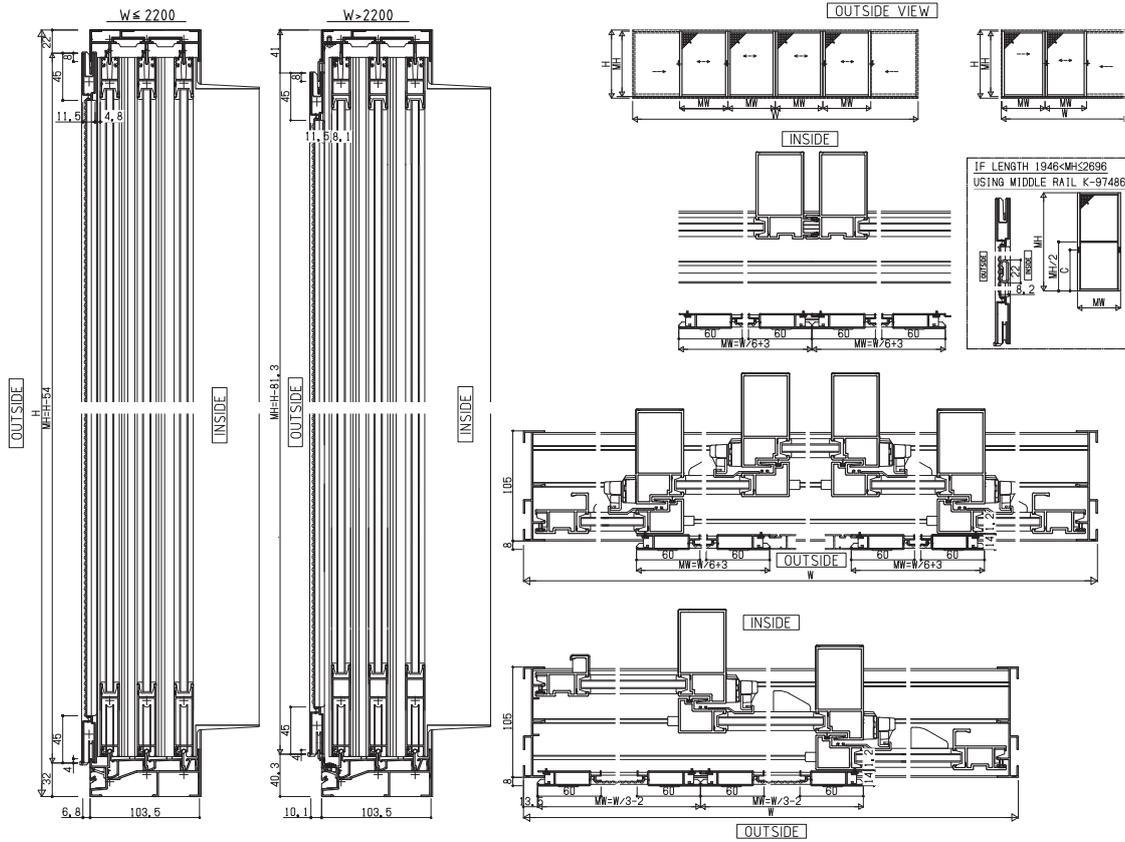




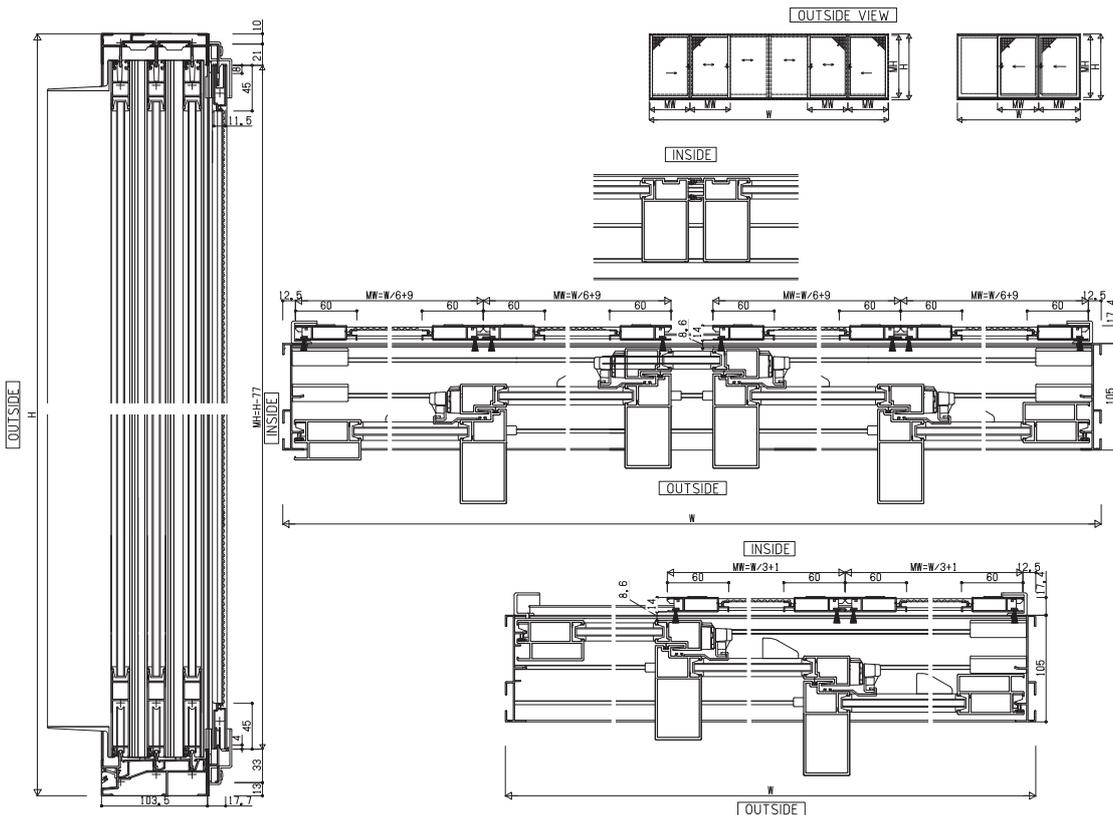
# STANDARD SLIDING

## System Drawing & Size Limitation Insect Screen (Optional)

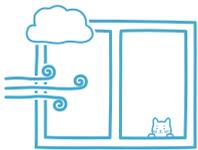
### Insect Screen C - Type 3 & 6 Leaves



### Insect Screen CF - Type 3 & 6 Leaves



# 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



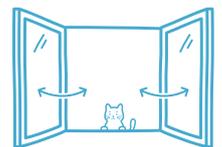
## Air Infiltration

Grade A -4 (JIS)



## Impact Resistance

30 kg sand bag from  
170mm drop Height

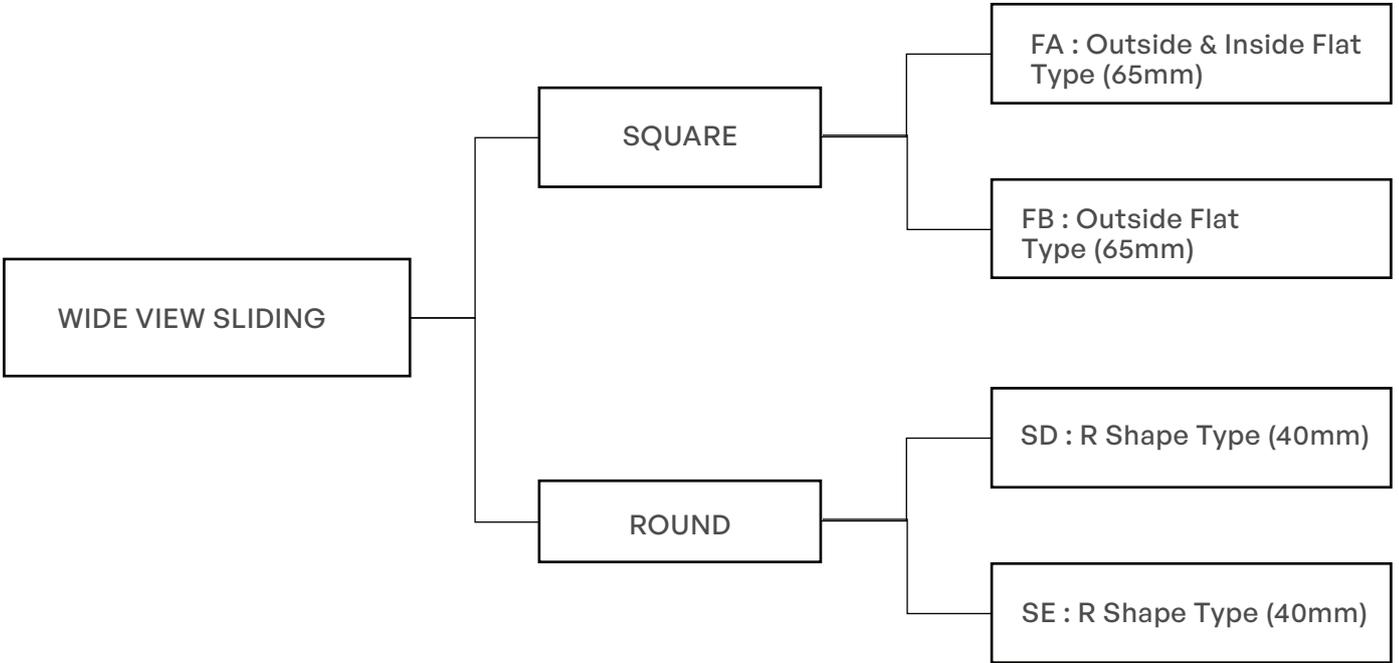


## Open-close Test

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

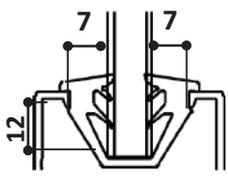
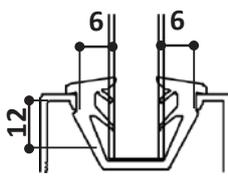
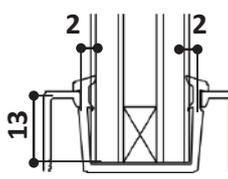


Sliding 4 Leaves



# 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

Window Type		Insect Screen 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

Item		Standard				Optional						
		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

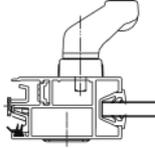
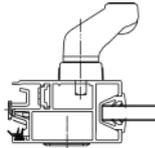
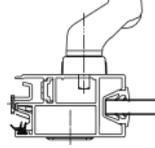
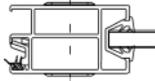
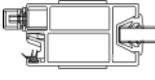
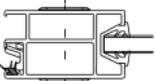
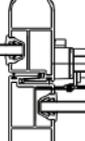
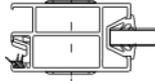
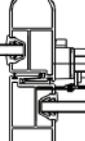
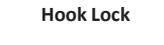
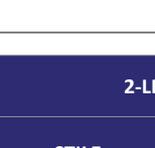
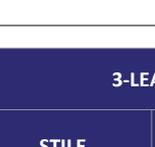
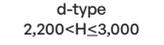
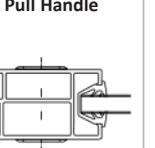
DG=Black, YW=White, YK=Black, D1=White

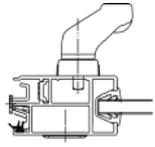
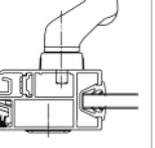
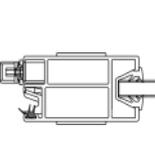
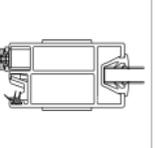
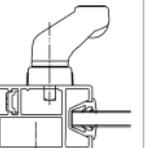
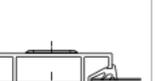
Meeting Stile Type

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 $H \leq 3,000$
	Pull Handle 	Crescent Lock 	Pull Handle 	Crescent Lock 	Hook Lock 	No Lock 	Hook Lock  a-type $H \leq 2,200$
	Hook Lock 	No Lock 	Hook Lock 	No Lock 	Hook Lock 	No Lock 	Hook Lock  d-type $2,200 < H \leq 3,000$
	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 $4,000 \geq H > 3,000$

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 $4,000 \geq H > 3,000$
	Pull Handle 	Crescent Lock 	Pull Handle 	Crescent Lock 	Hook Lock 	No Lock 	Hook Lock  d-type $4,000 \geq H > 3,000$

# WIDE VIEW SLIDING

## FEATURES



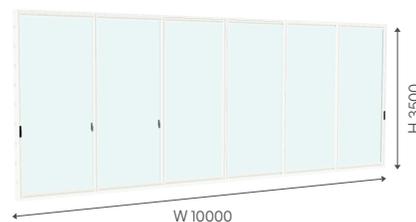
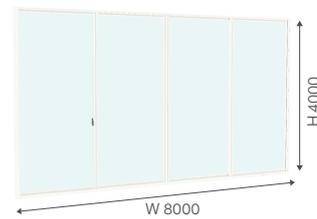
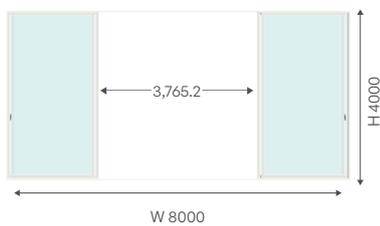
Slim And Round Profile



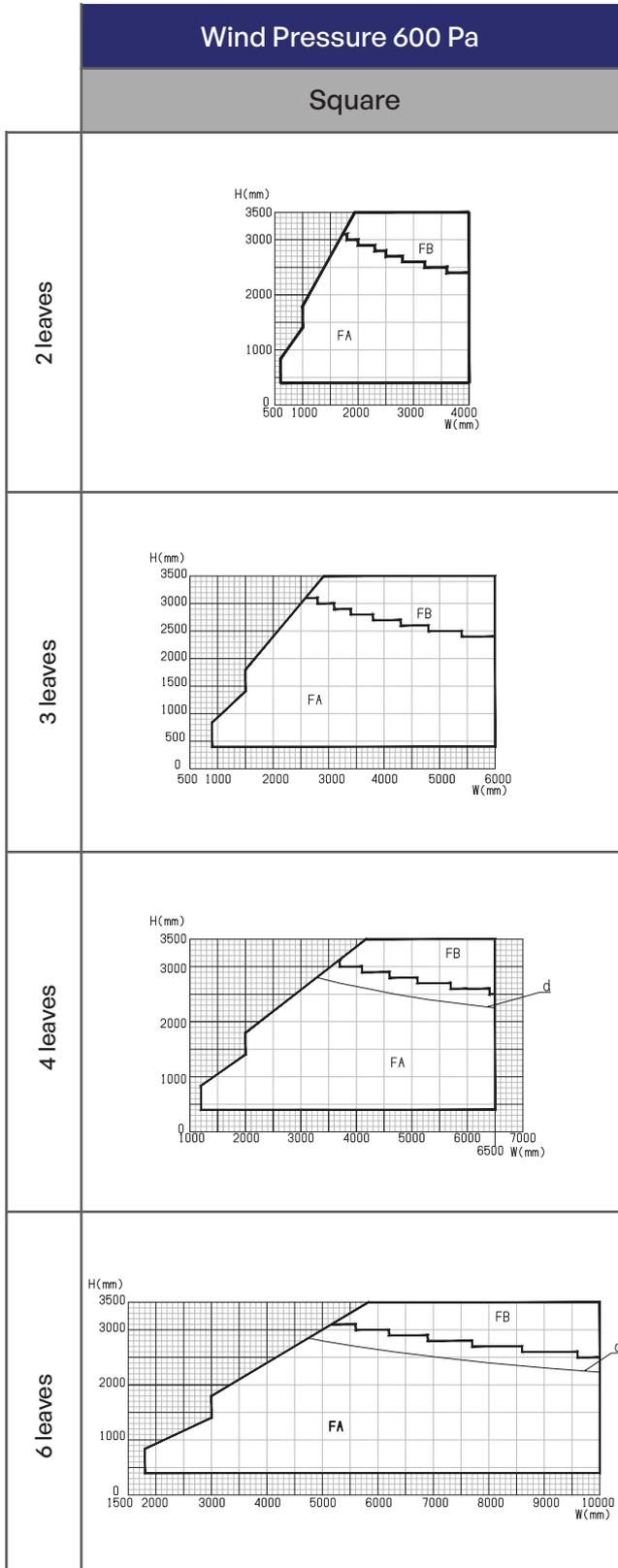
Multipoint Lock System With Single Motion

## WIDE OPENING

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



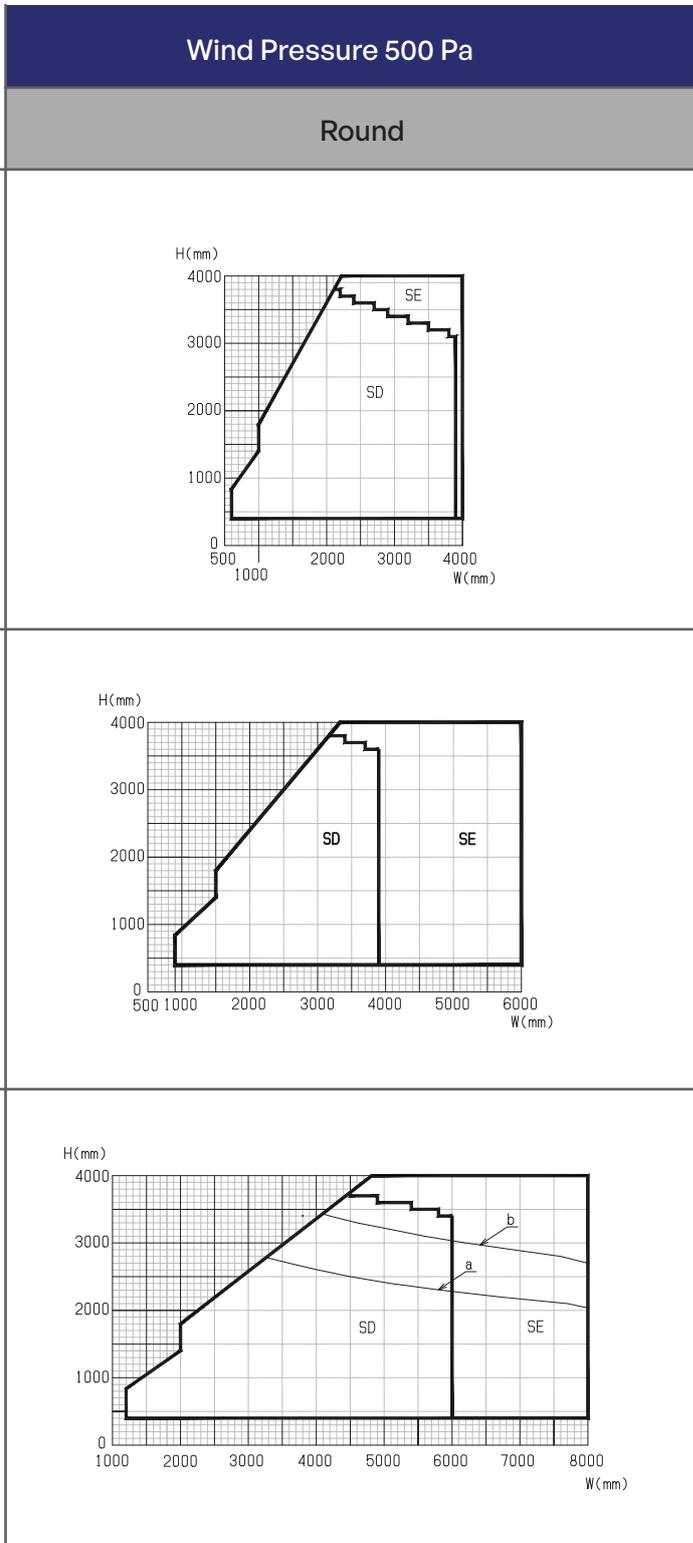
### SIZE LIMITATION



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'

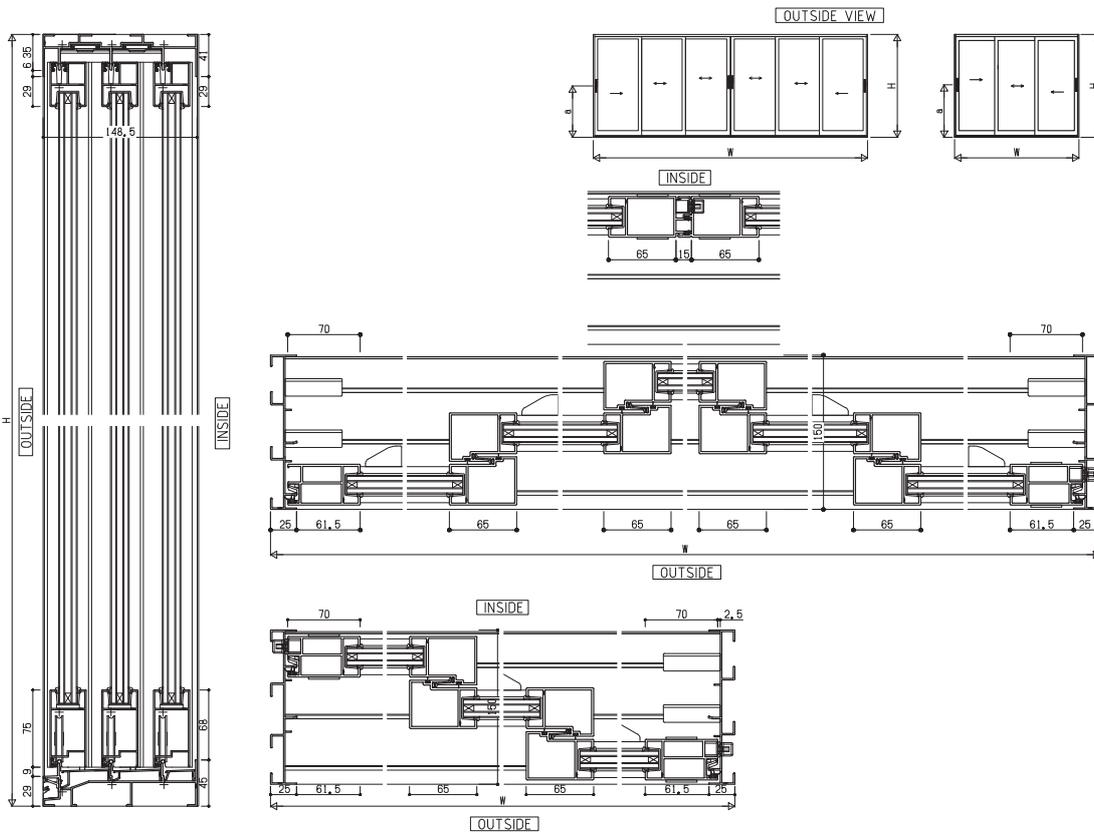


# WIDE VIEW SLIDING

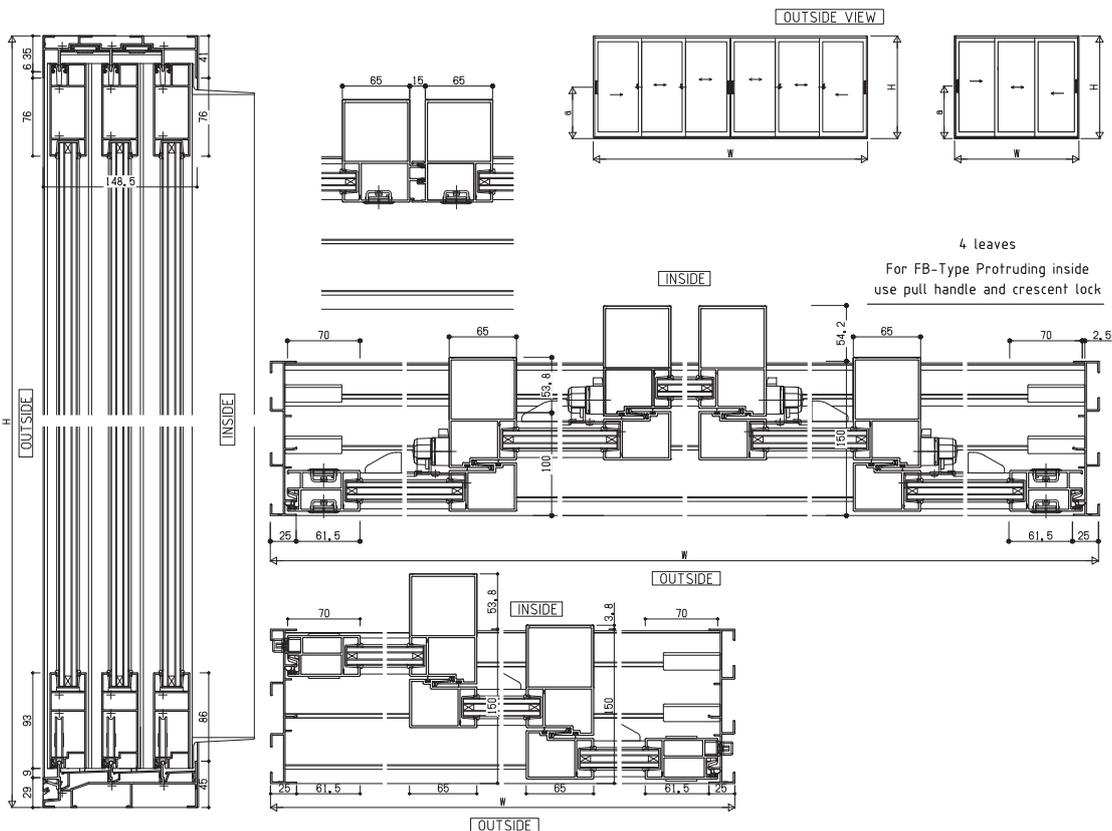
# System Drawing & Size Limitation

## FA - Type 3 & 6 Leaves

\*Please check P33-34 for size limitation

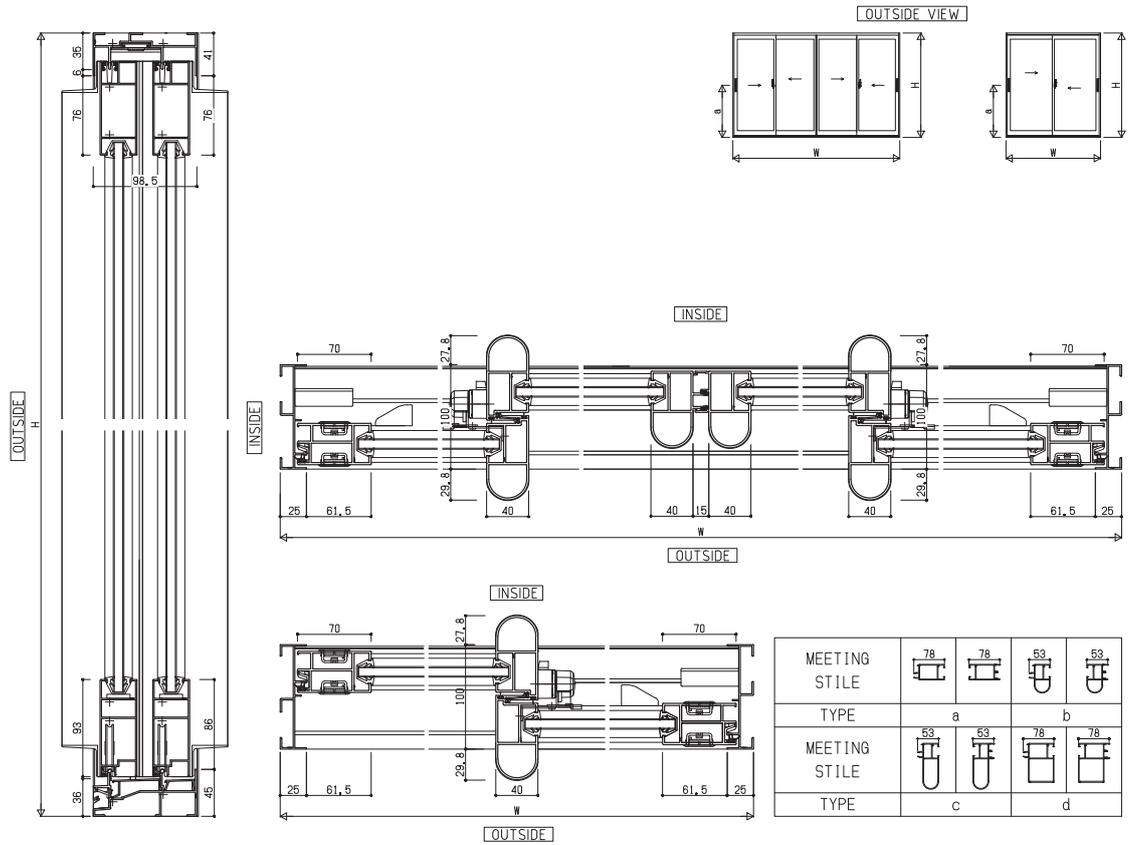


## FB - Type 3 & 6 Leaves

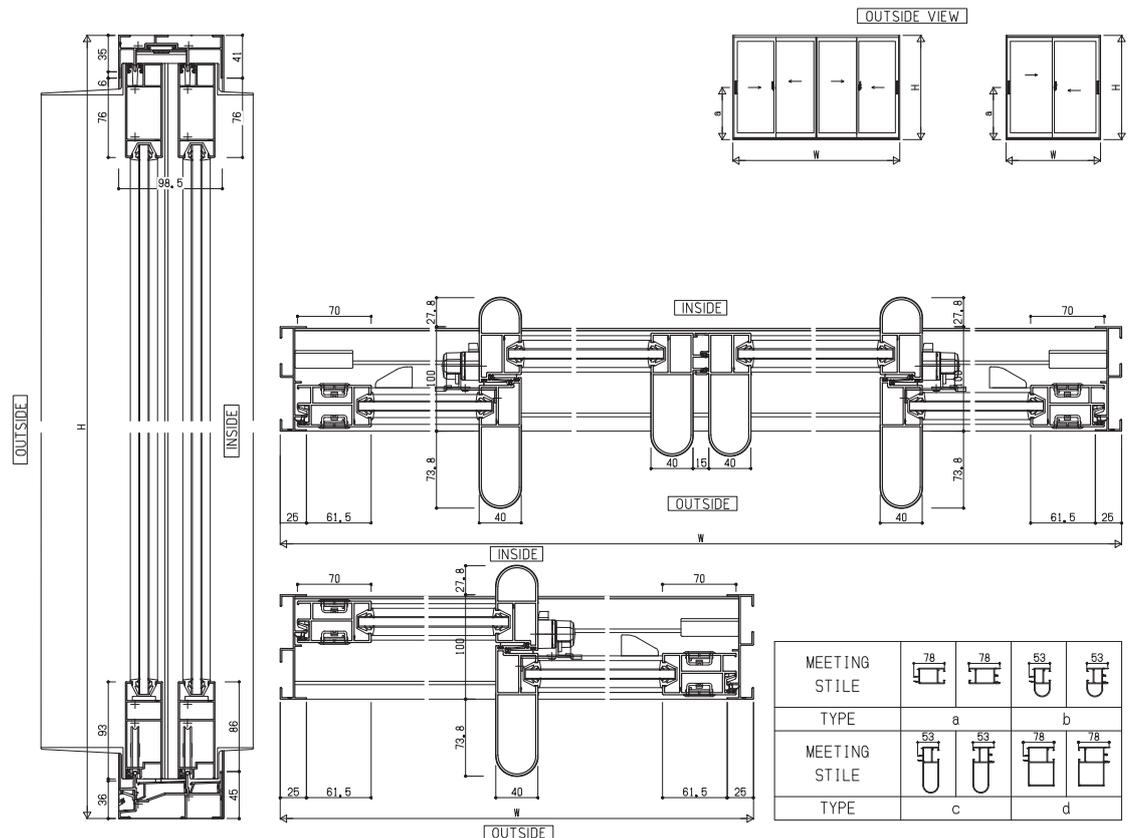


## SD - Type 2 & 4 Leaves

\*Please check P33-34 for size limitation



## SE - Type 2 & 4 Leaves

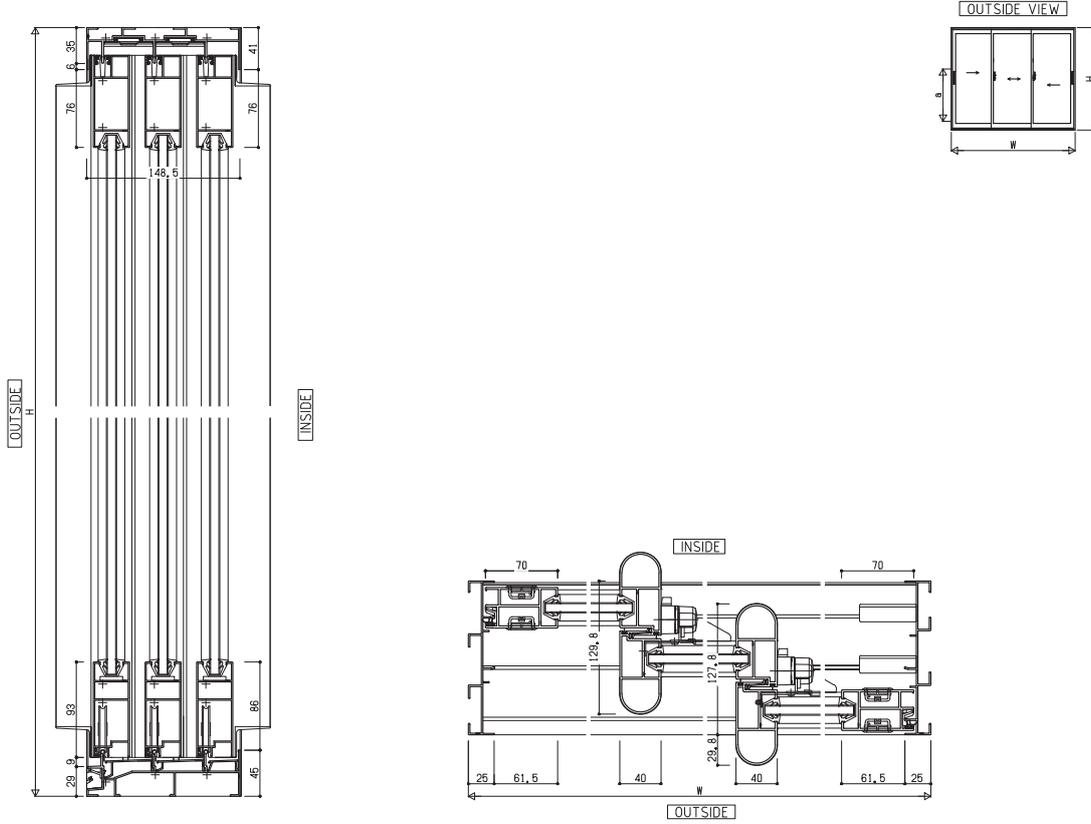


# WIDE VIEW SLIDING

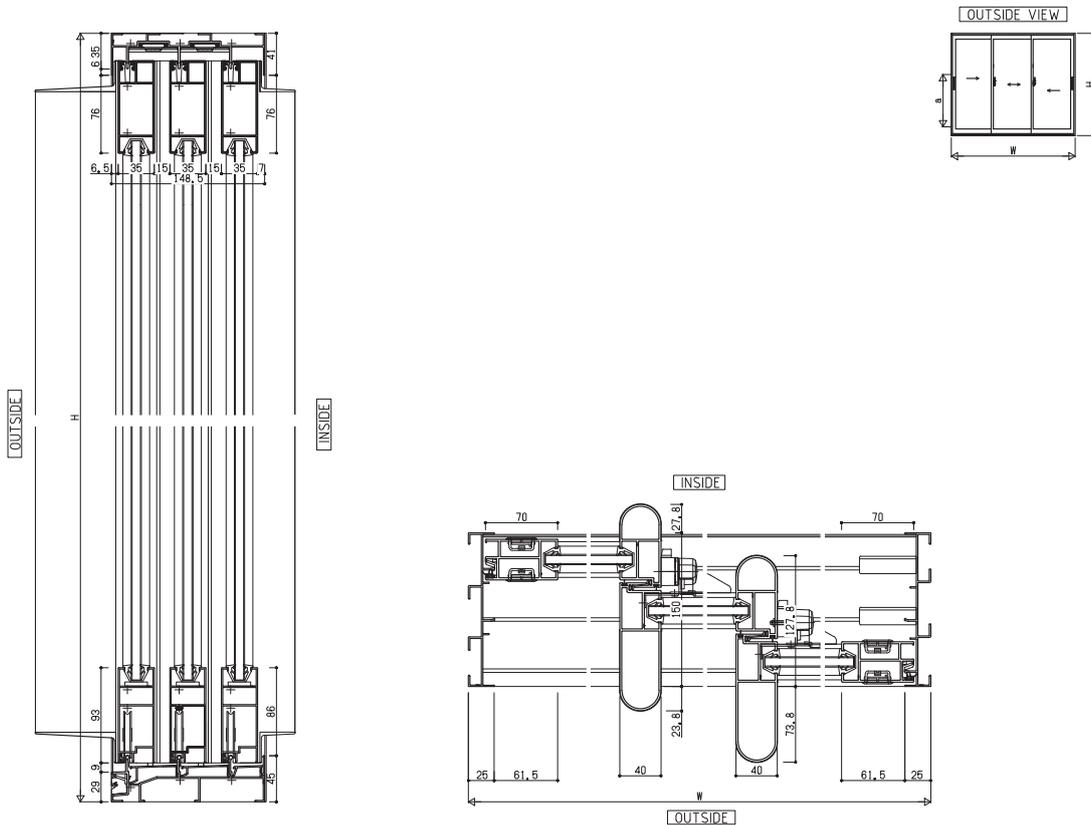
# System Drawing & Size Limitation

## SD - Type 3 Leaves

\*Please check P33-34 for size limitation



## SE - Type 3 Leaves



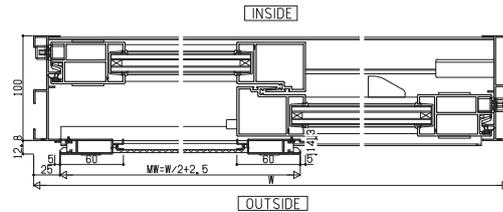
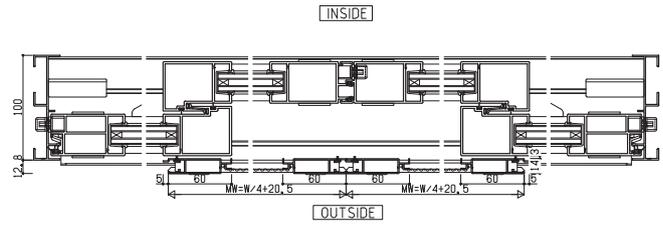
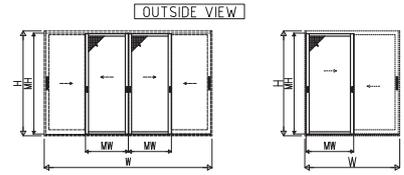
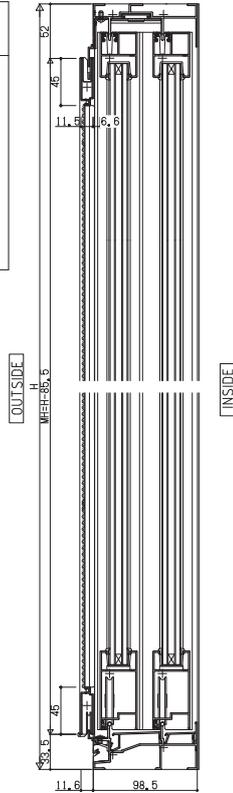
# WIDE VIEW SLIDING

## System Drawing & Size Limitation Insect Screen (Optional)

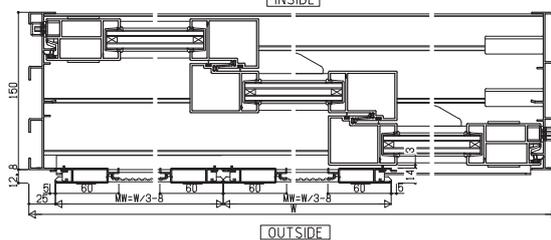
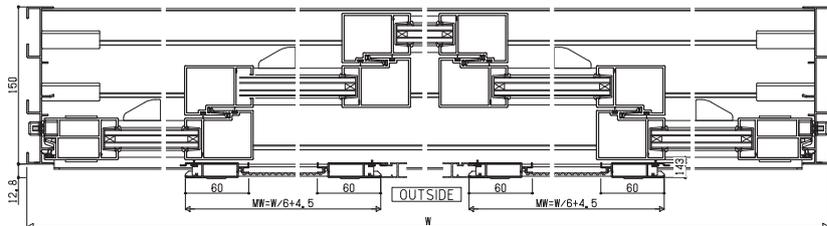
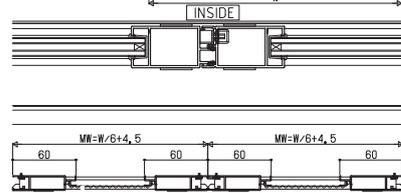
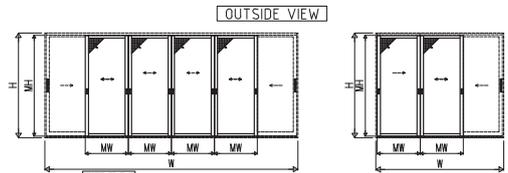
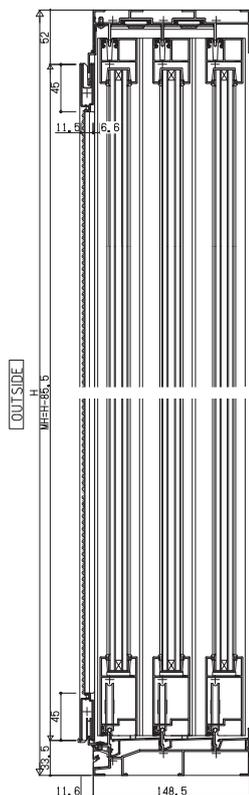
### Insect Screen Outside FA,FB - Type 2 & 4 Leaves

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

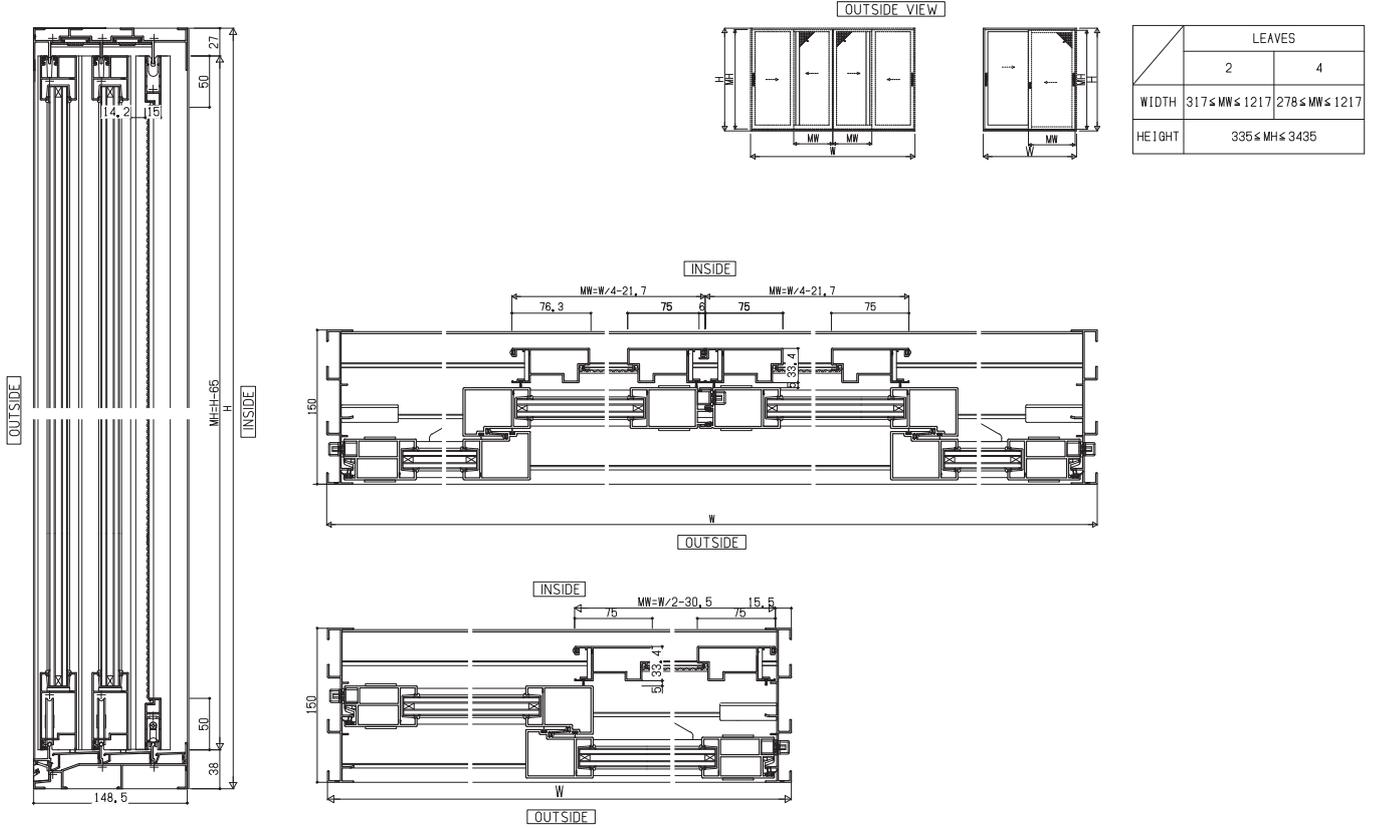


# WIDE VIEW SLIDING

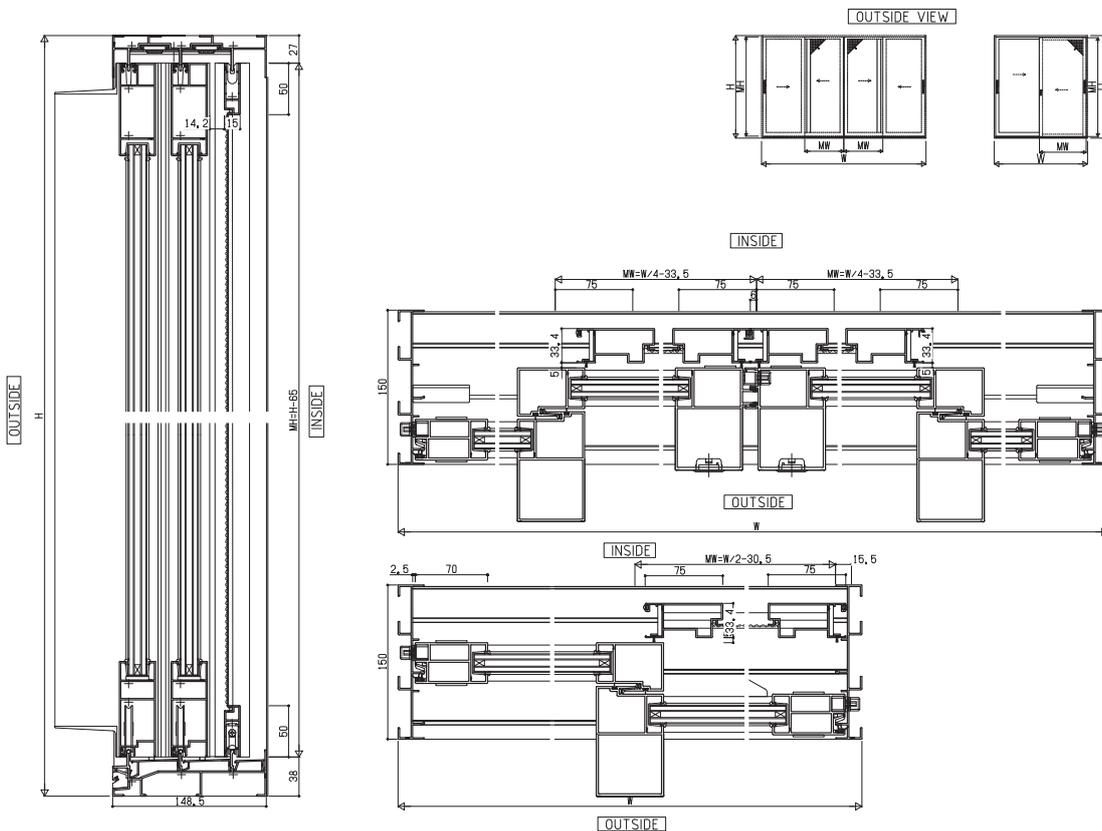
## System Drawing & Size Limitation Insect Screen (Optional)

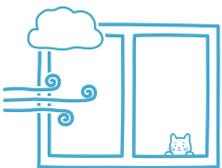
### Insect Screen Inside FA - Type 2 & 4 Leaves

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

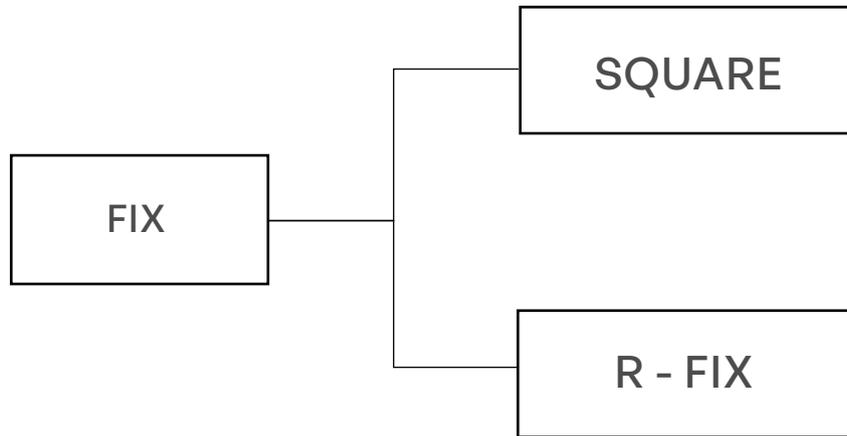
T - 1 (-25 dB)(JIS)  
T - 2 (-30 dB)(JIS)  
Rw 24 - 30 (ISO)



### Double Glazing



## PRODUCT DIAGRAM



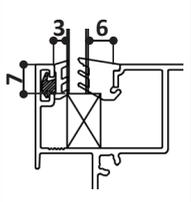
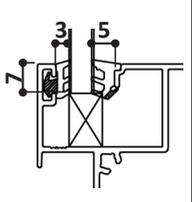
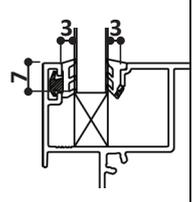
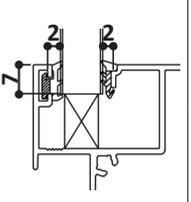
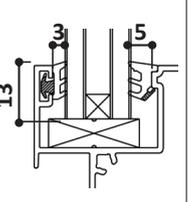
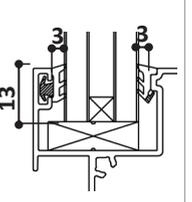
SQUARE



R - FIX

## GLASS THICKNESS MATRIX & GASKET MATRIX

Glass & Gasket Type

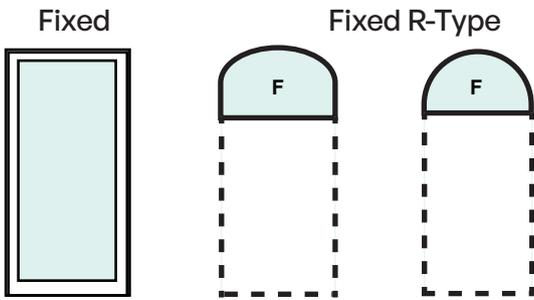
							
Glass Groove		14				24	
Glass Thickness		5	6	8	10	5+A6+5	6+A6+6
Square		●	●	●	●	●	●
R-FIX		●	●	●	●	●	●
Gasket Number	Out	2K-22277			2K-23422	2K-22277	
	In	9K-20523	2K-22973	2K-22975	3K-27077	2K-22973	2K-22975

● Available

# FIX

## FEATURES

### Variation

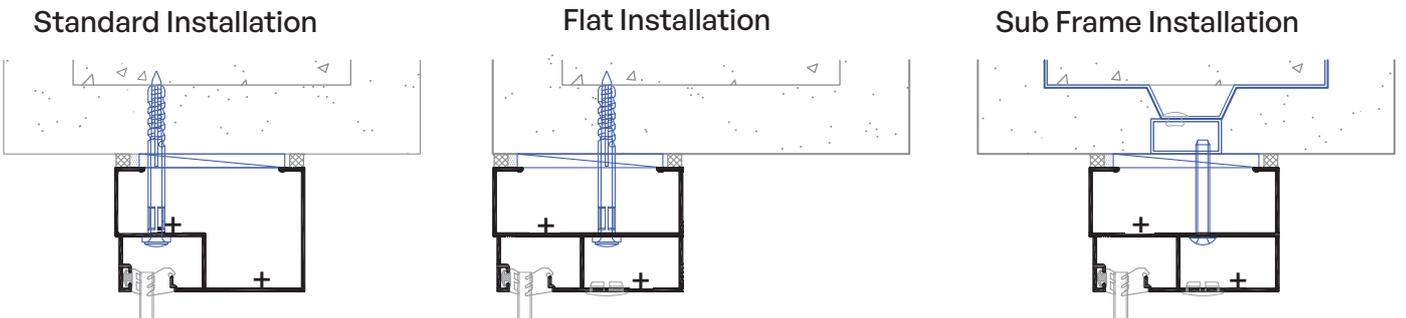


### Detail of Profile Combination



### 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.

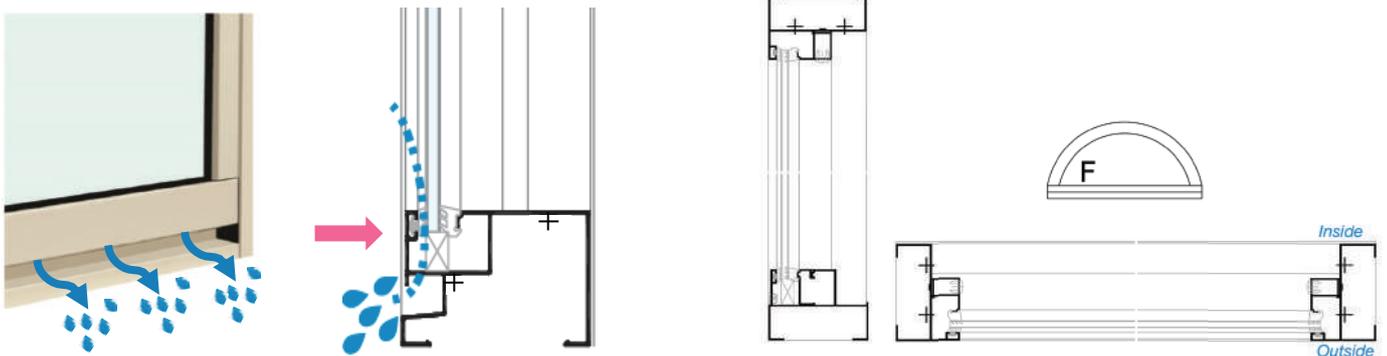


### Relief

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

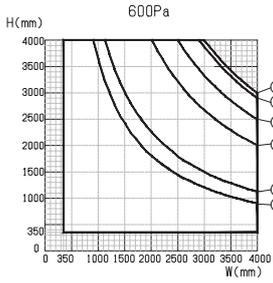
### Flat & Round Design

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

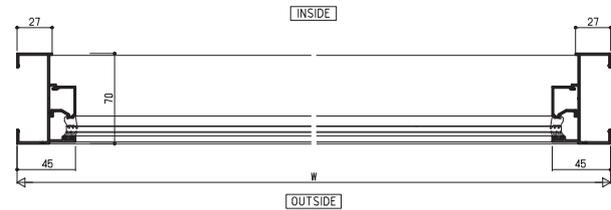
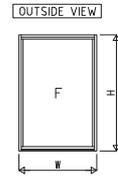
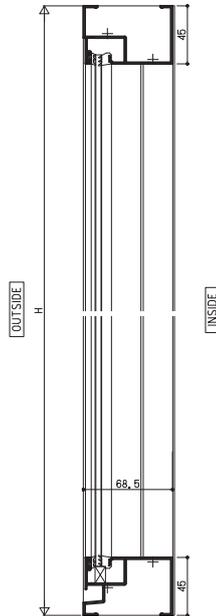


## FIX square glass groove 14 mm

## FIX square 14 mm

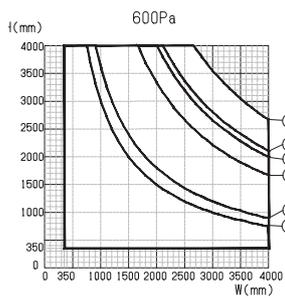


	GLASS	SUPPORT
1	8mmTHK	WITH SILL REINFORCEMENT
2	10mmTHK	WITH SILL REINFORCEMENT
3	8mmTHK	WITH SHIM RECEIVER
4	10mmTHK	WITH SHIM RECEIVER
5	8mmTHK	WITHOUT SUPPORT
6	10mmTHK	WITHOUT SUPPORT

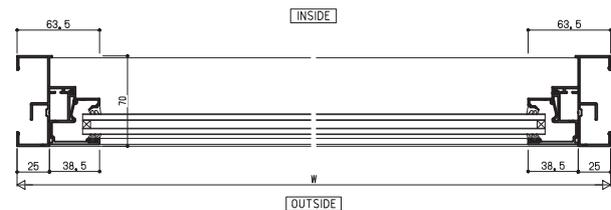
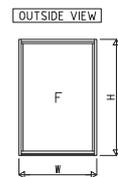
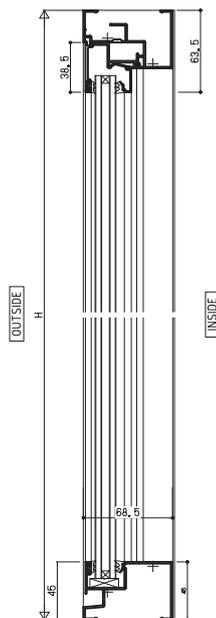


## FIX square 24 mm

## FIX square glass groove 24 mm

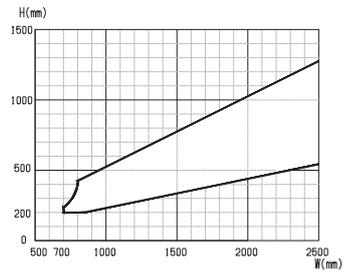
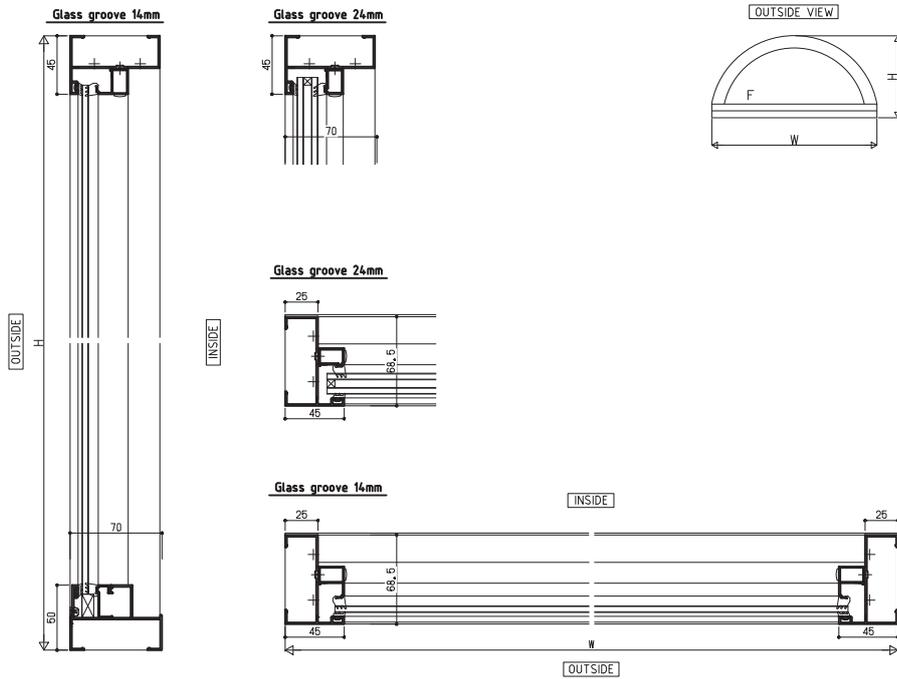


	GLASS	SUPPORT
1	5+A6+5mmTHK	WITH SILL REINFORCEMENT
2	6+A6+6mmTHK	WITH SILL REINFORCEMENT
3	5+A6+5mmTHK	WITH SHIM RECEIVER
4	6+A6+6mmTHK	WITH SHIM RECEIVER
5	5+A6+5mmTHK	WITHOUT SUPPORT
6	6+A6+6mmTHK	WITHOUT SUPPORT



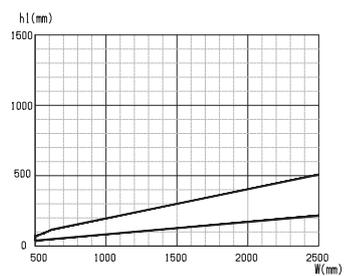
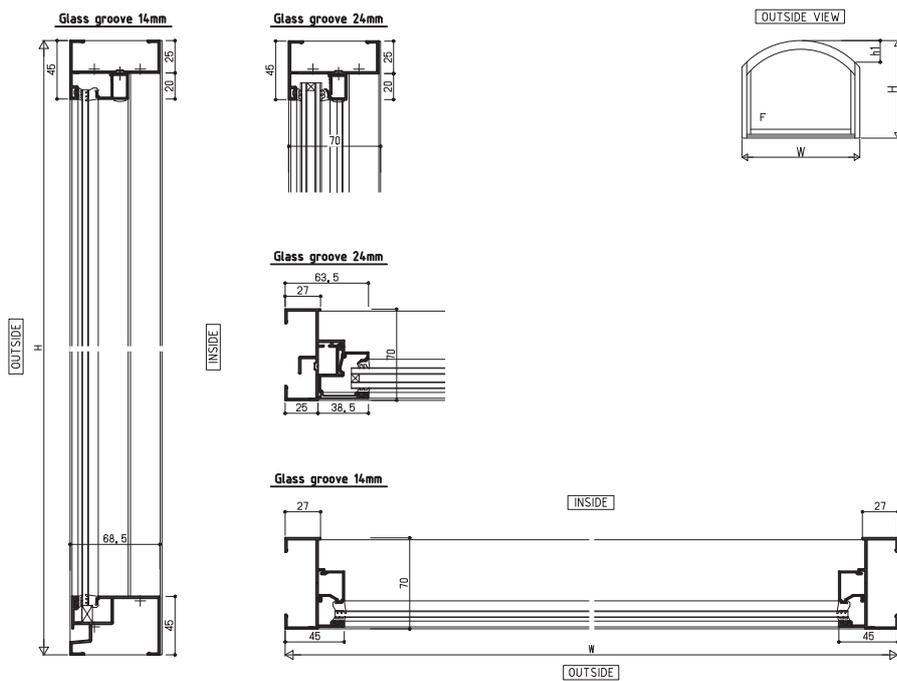
R - FIX (A)

R - FIX (A)

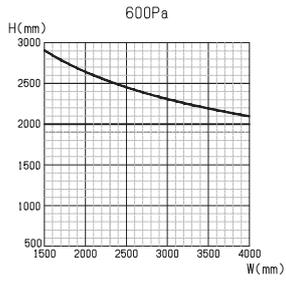


R - FIX (B)

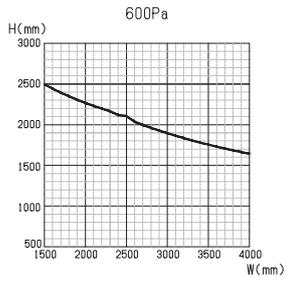
R - FIX (B)



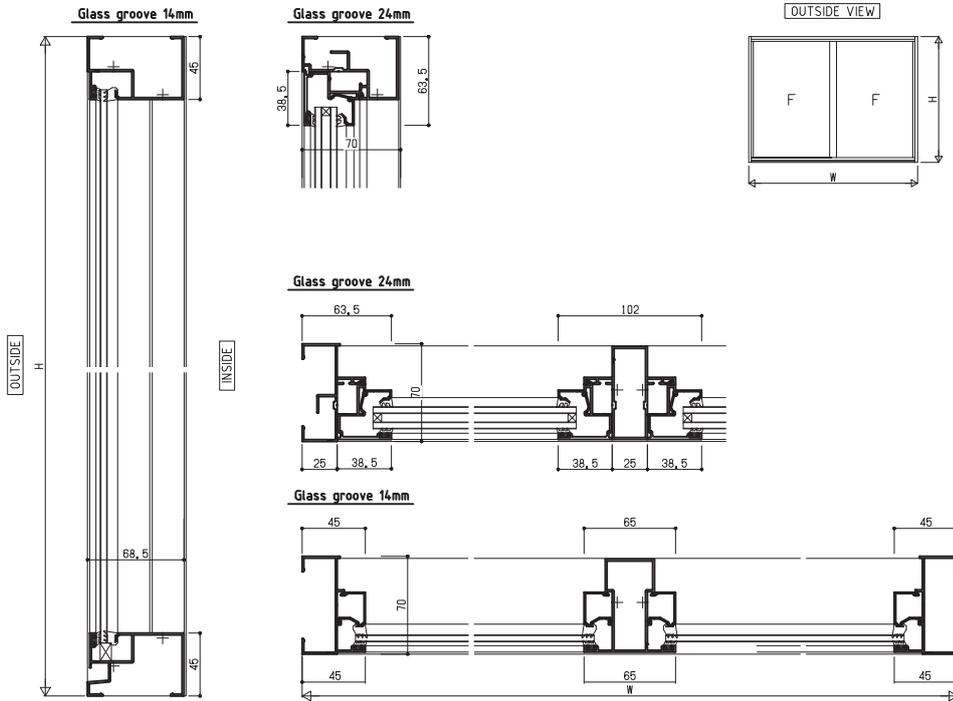
## Muntin 14 mm



## Muntin 24 mm

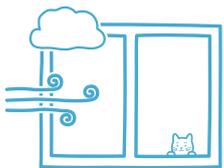


## Fix - Fix with Muntin





# TOP HUNG



## 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)

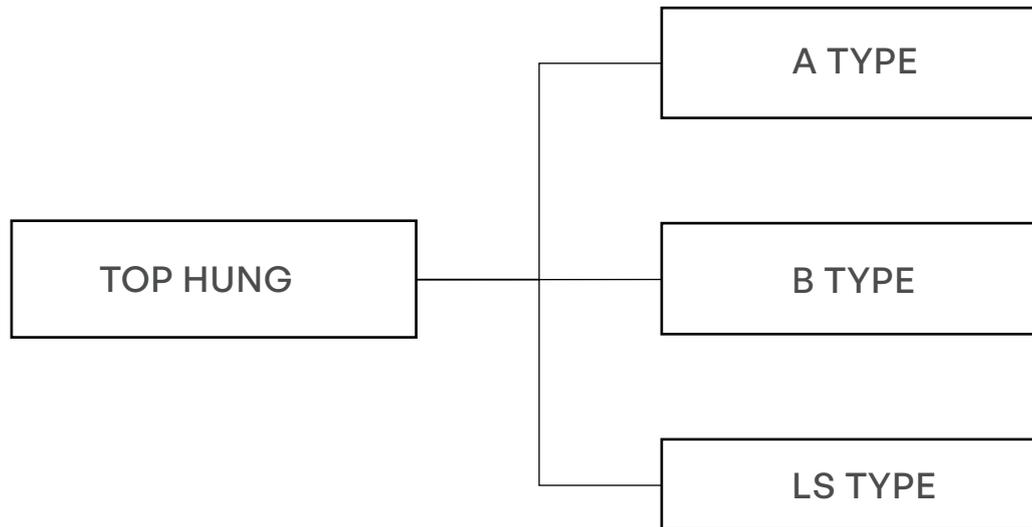


## Double Glazing



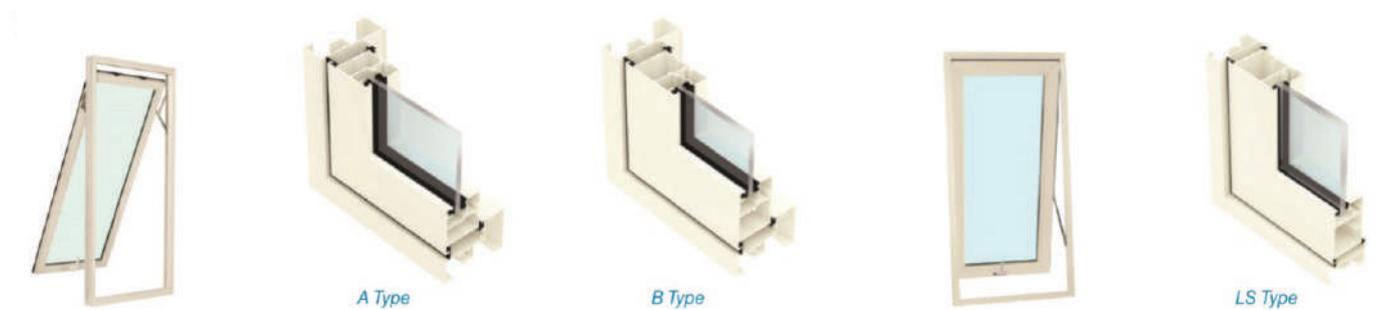
# TOP HUNG

## PRODUCT DIAGRAM



## VARIATION

### A, B, LS TYPE



# TOP HUNG

## 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

Item	Standard						Optional		
									
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

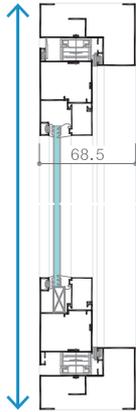
# TOP HUNG

## 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.



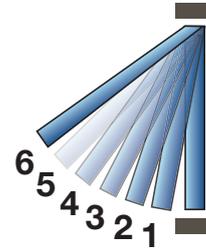
#### • Friction Stay

Friction stay is set as standard for safety



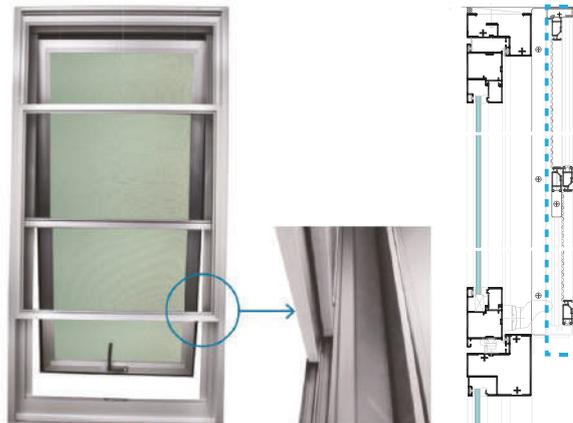
#### • 6 Step Arm Stopper A & B Type (Option)

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.

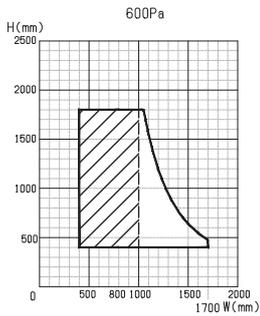


This insect screen can also be use for Casement

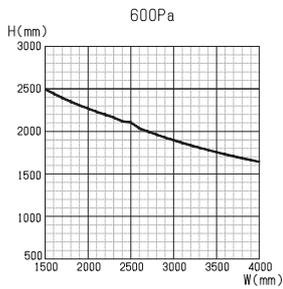


## A - Type

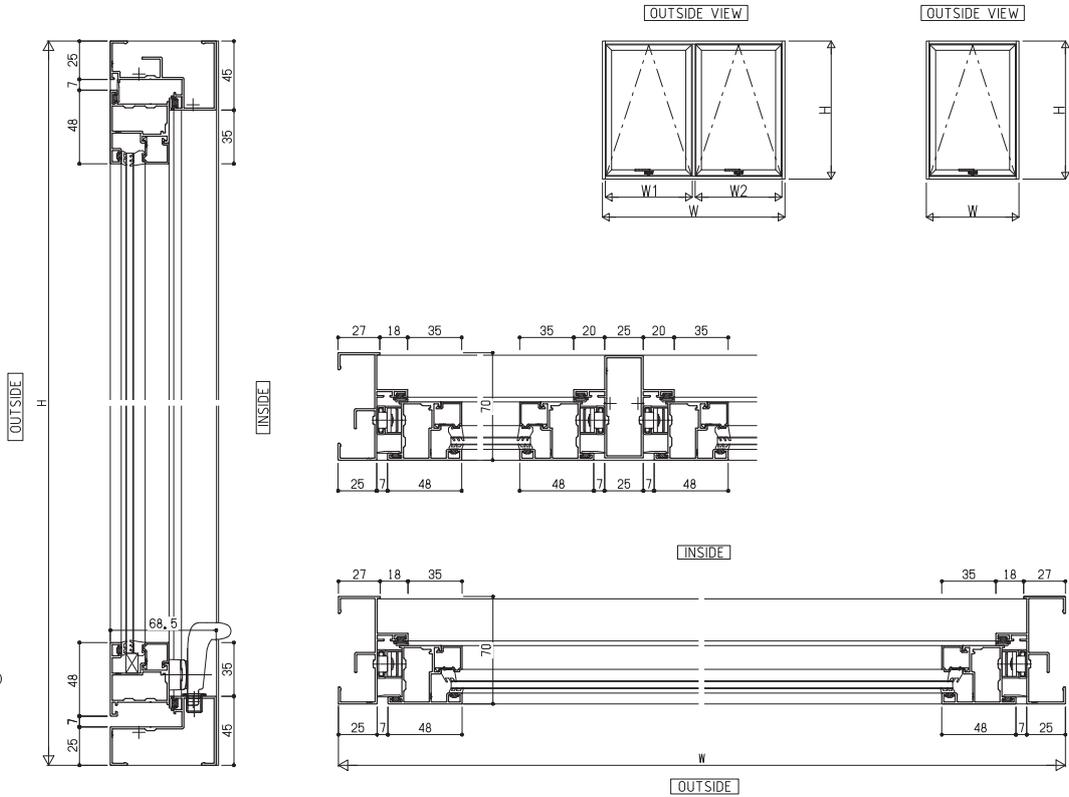
### A - Type



### TH-TH A - Type with MUNTIN

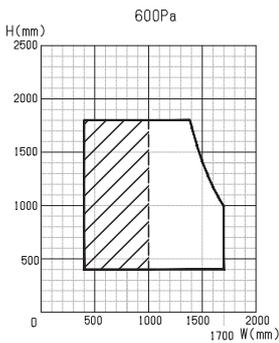


Hatched area can't install safety stopper

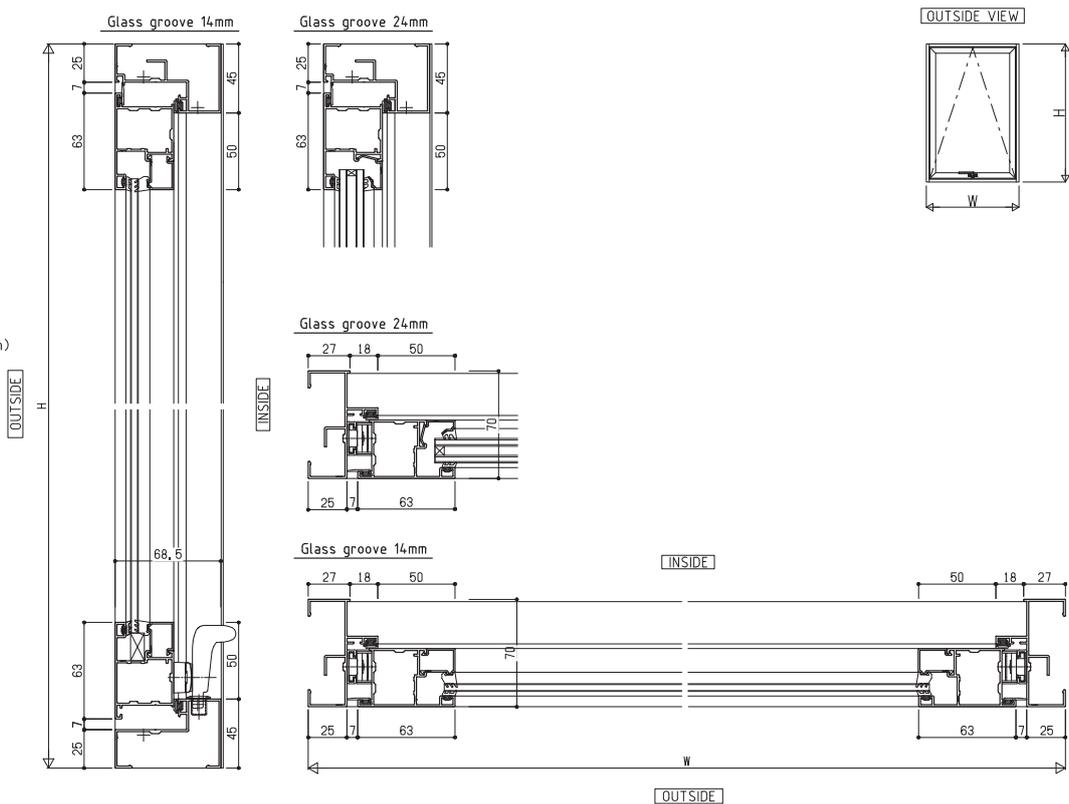


## B - Type Camlatch Single

### B- Type Camlatch

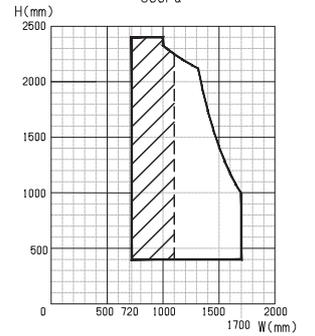
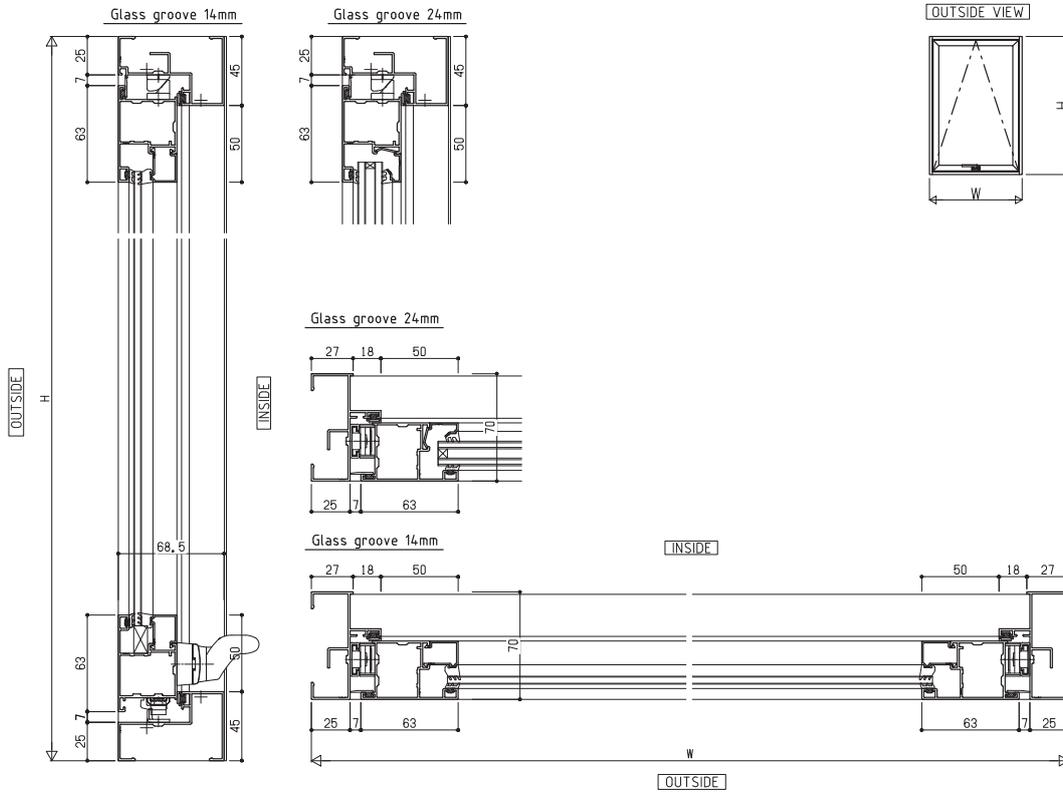


Hatched area can't install safety stopper



## B - Type Multipoint

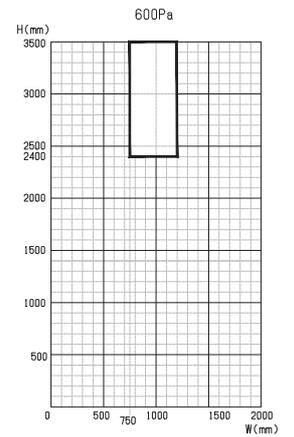
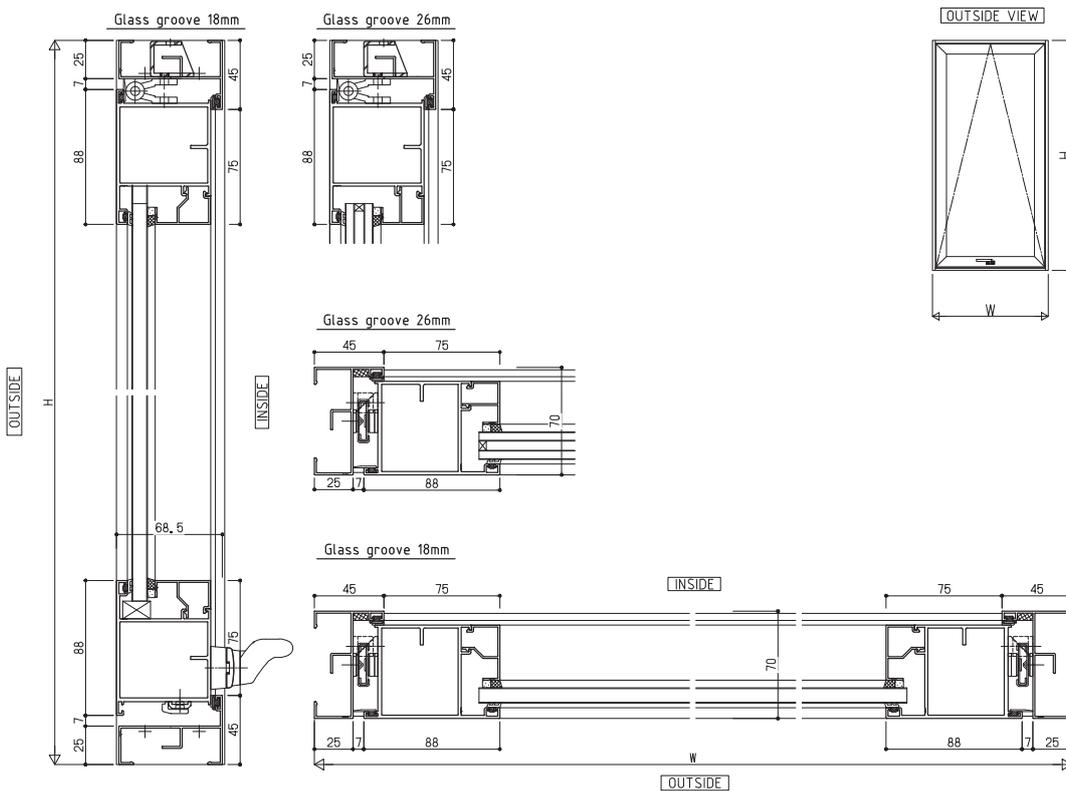
B Type - Multipoint



Hatched area can't install safety stopper

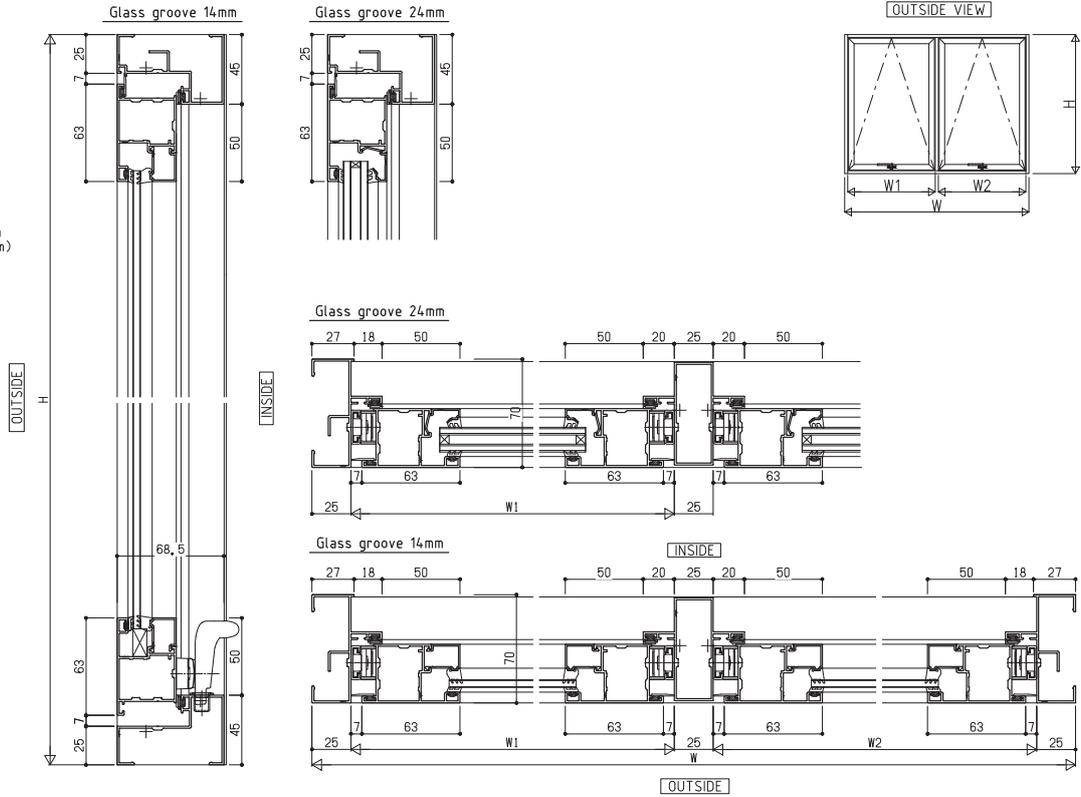
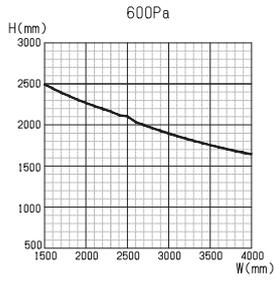
## LS - Type

LS - Type

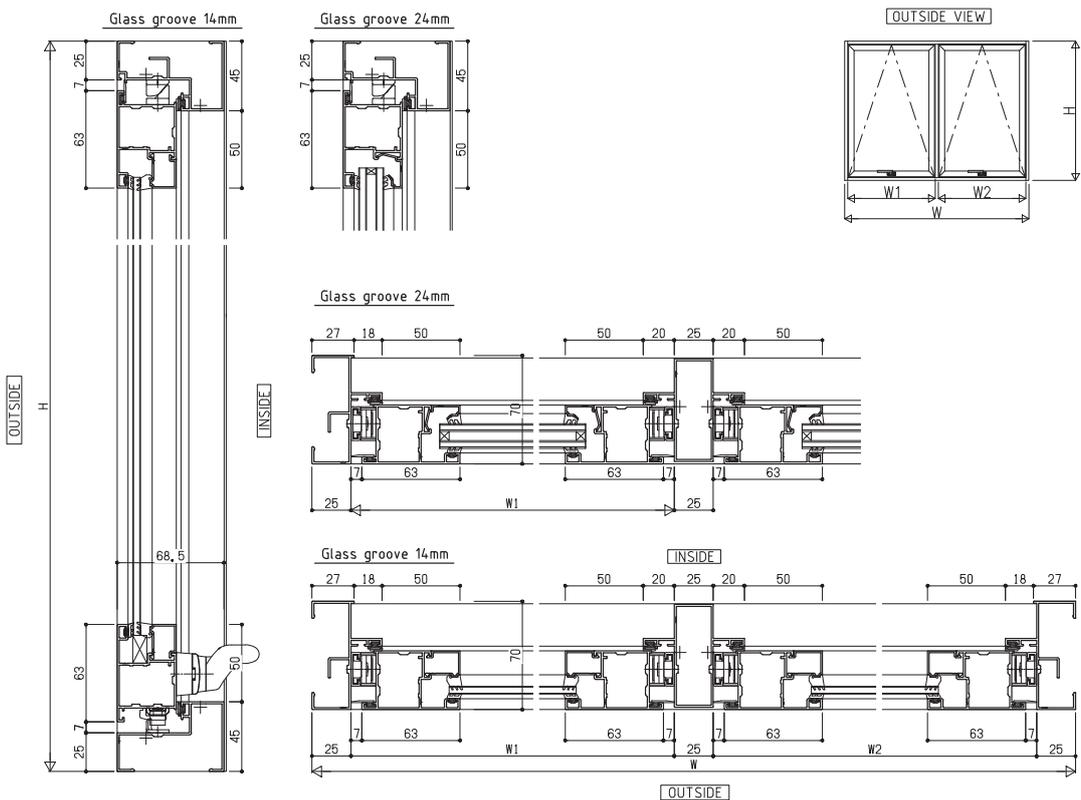


### TH - TH B - Type Camlatch with Muntin

TH - TH B - Type with Muntin

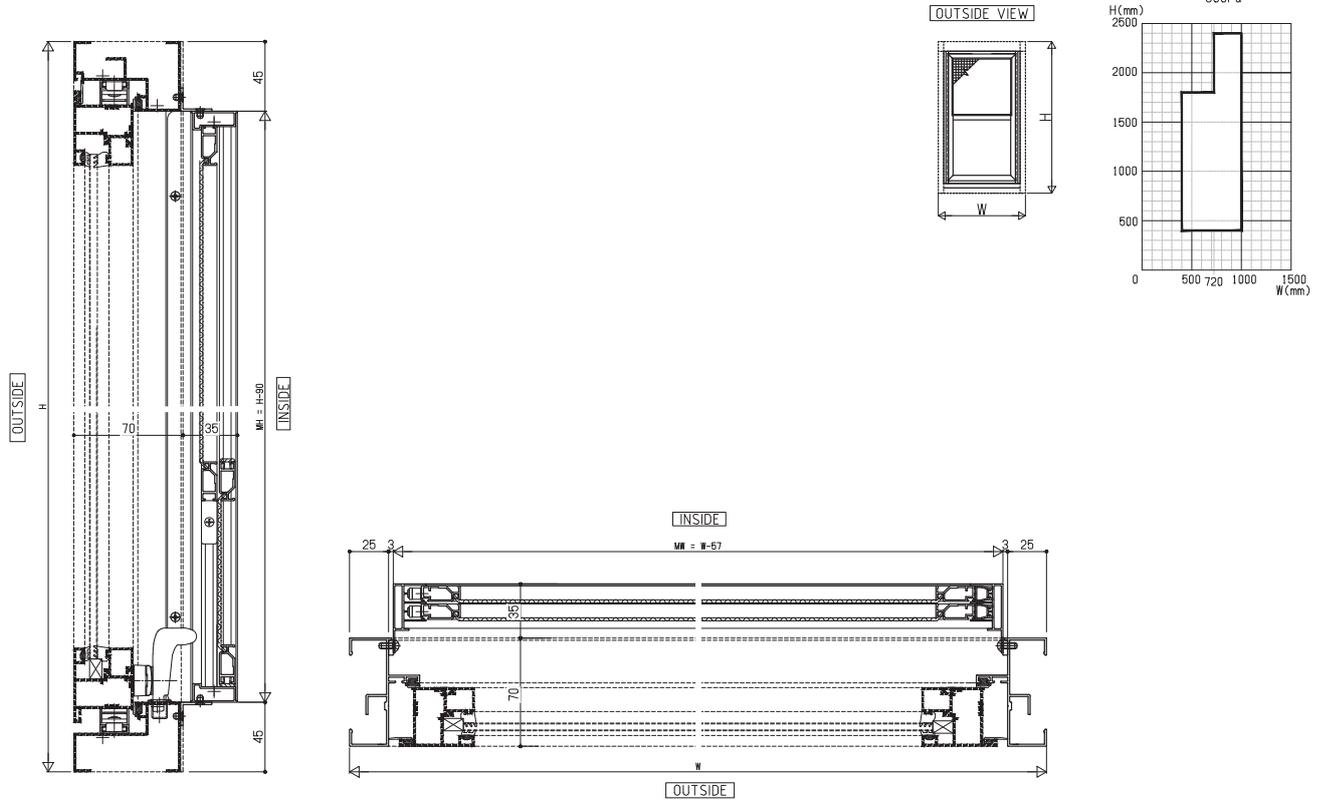


### TH - TH B - Type Multipoint with Muntin

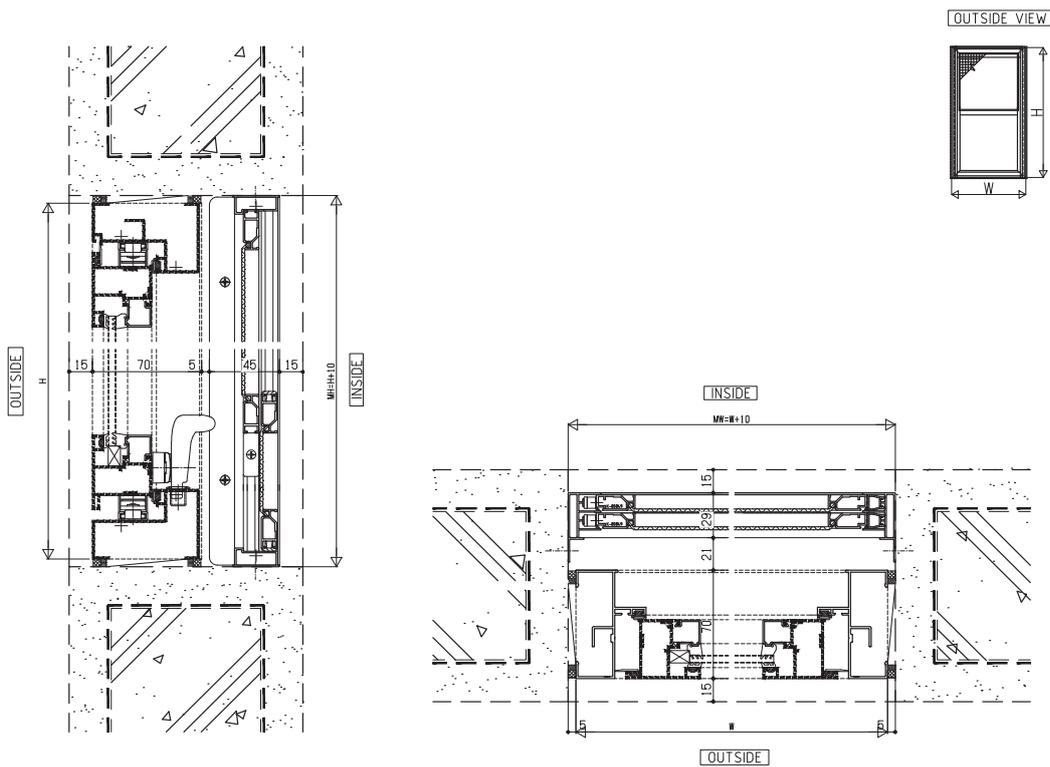


### Insect Screen - Vertical Sliding on Frame

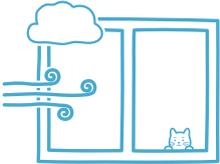
TH Single Insect Screen



### Insect Screen - Vertical Sliding on Wall



# HIGH VENTILATION WINDOW



**Structural (Wind Load)**

600 Pa  
Deflection  
L/100



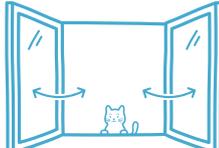
**Water Tightness**

75 Pa



**Air Infiltration**

Grade A - 4(JIS)



**Open-close Test**

30,000 cycle  
depends on item

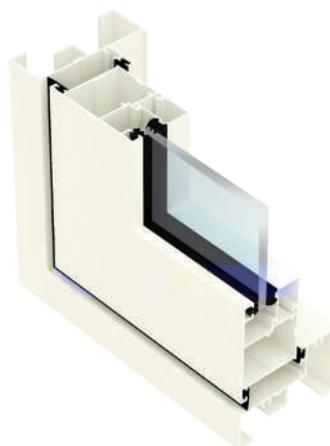
# HIGH VENTILATION WINDOW

## PRODUCT DIAGRAM



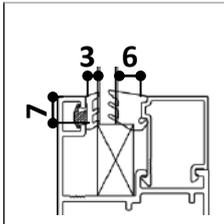
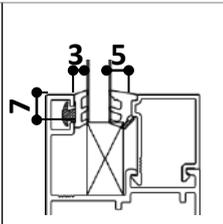
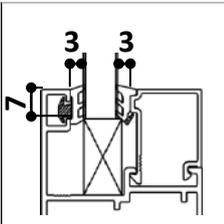
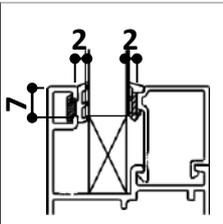
## VARIATION

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

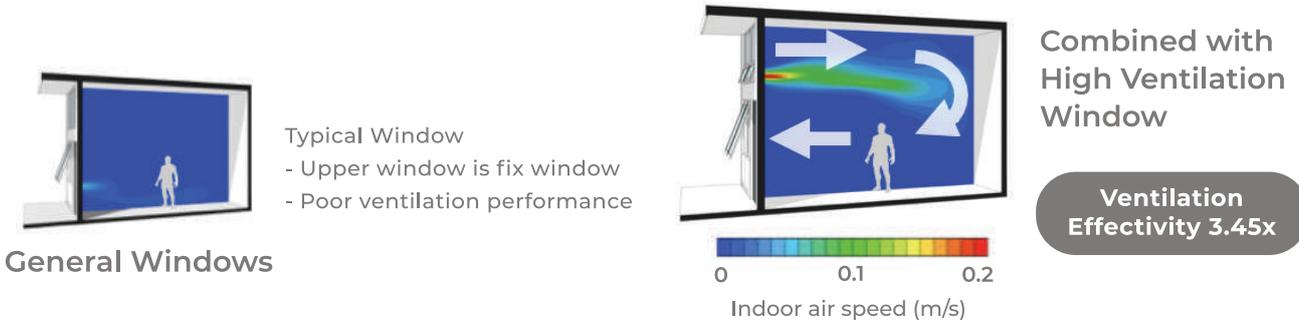
● Available

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.



Air Change Rate<sup>3</sup> 0.37 times/hour



The airflow moving slowly, even almost not moving at all



Less air changing makes the room air saturated, cannot push viruses and bacteria away from the room.

Air Change Rate<sup>3</sup> 1.66 times/hour ▲ 345%

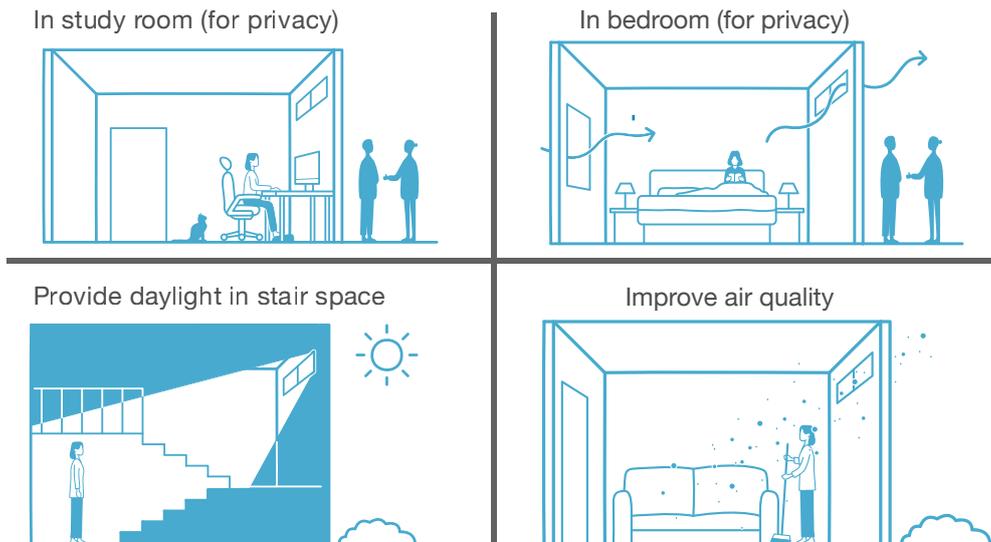


Faster airflow helps to cool the indoor space as well as the occupants, thus improves the thermal comfort.



The increased air change rate bringing more air fresh inside and push away pollutants and dirty air from the room

## VARIOUS APPLICATIONS OF HIGH VENTILATION WINDOW IN YOUR BUILDING



※ notes :

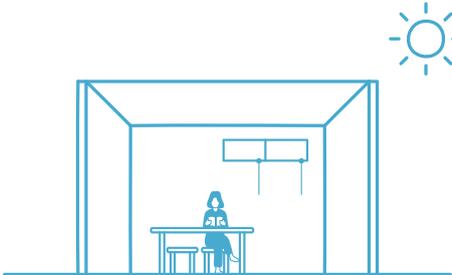
1. The performance verification for NEXSTA High Ventilation Window was supported by YKK AP R&D Center (Indonesia).
2. Outdoor wind speed of 2 m/s represents the average wind speed during the daytime in most cities in Indonesia.
3. Air change rate or ventilation rate, is a measure of the number of air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

# HIGH VENTILATION WINDOW

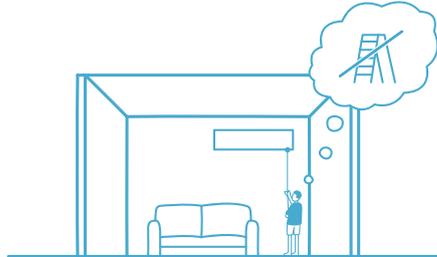
EASIER TO OPERATE AND SAFER FOR YOUR LOVABLE ONES WITH OUR SPECIAL PARTS

## PRODUCT VARIATION :

### I. Loopless Chain Type



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

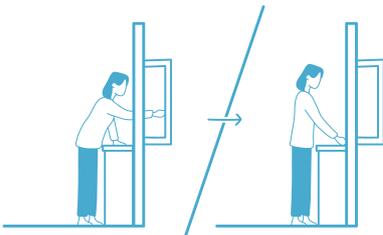


A common high-position window is difficult to open or close due to its unreachable position. The loopless chain system provides easier and safer window operation



Adjustable wire length up to 3.5m

### II. Operator Handle Type



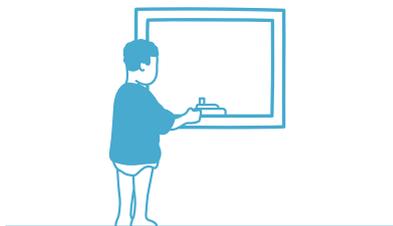
#### Easy And Safe

Even in the hard to reach places the operation is easy



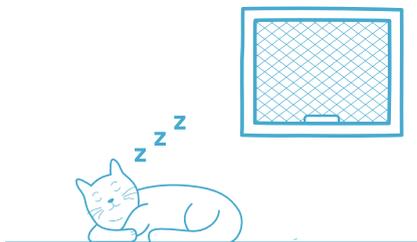
#### Easy to Operate

The direction of rotation differs depending on the opening



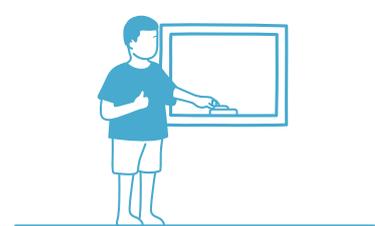
#### Save For Kids

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

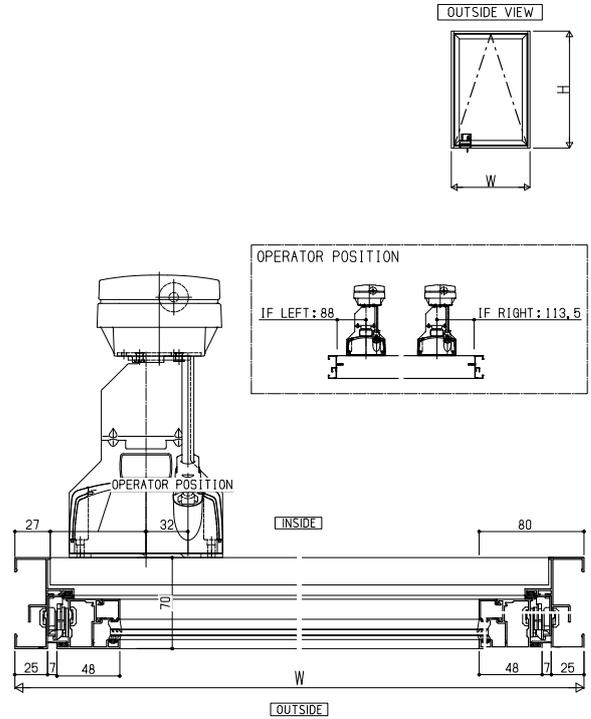
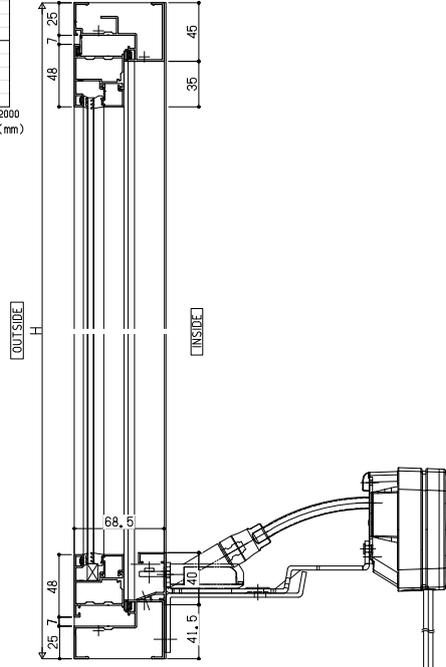
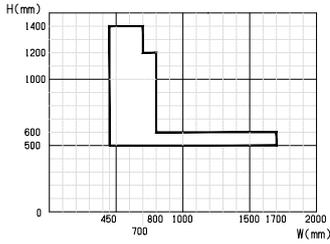


#### Easy to Operate

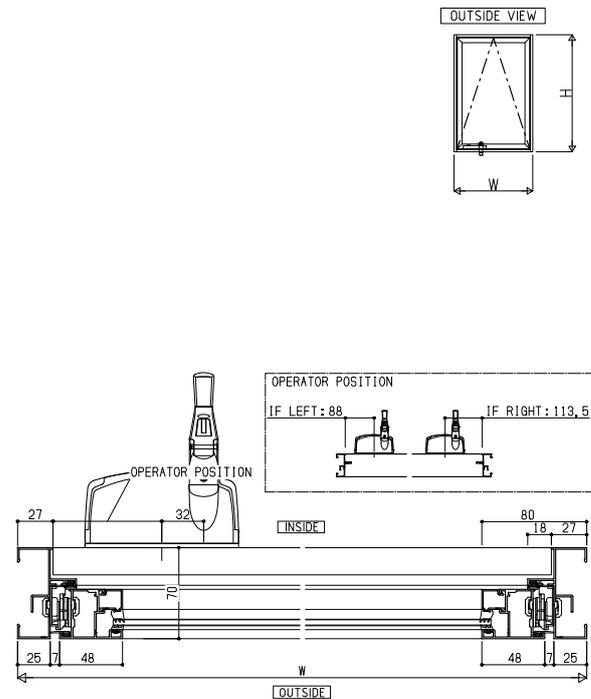
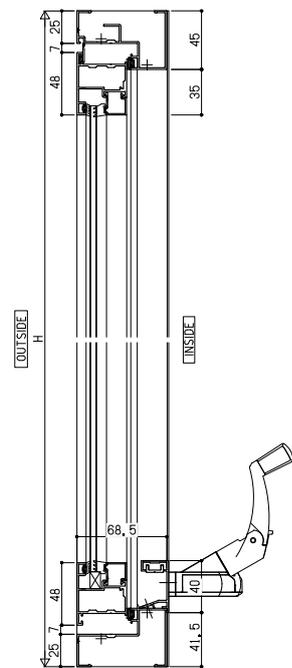
It is easy for children to operate

# HIGH VENTILATION WINDOW System Drawing & Size Limitation

## Loopless



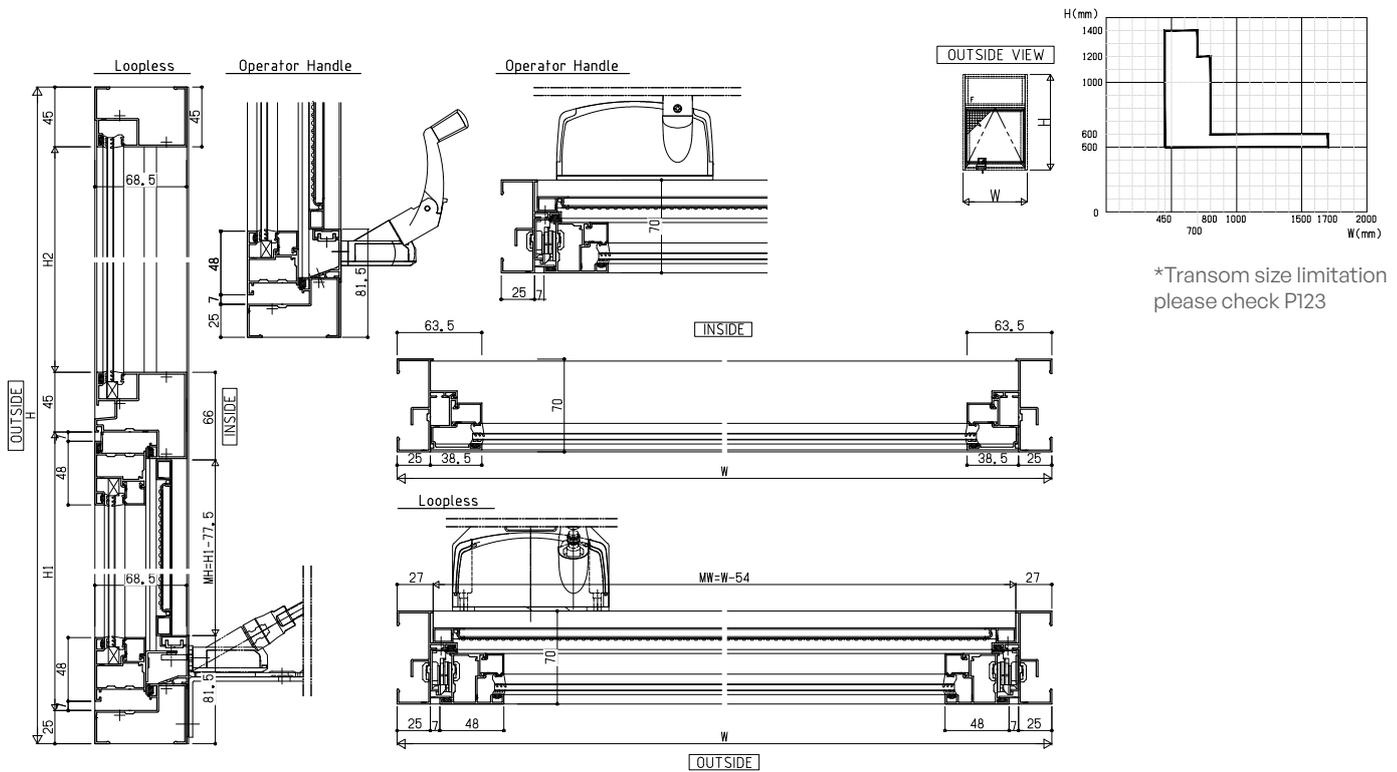
## Operator Handle



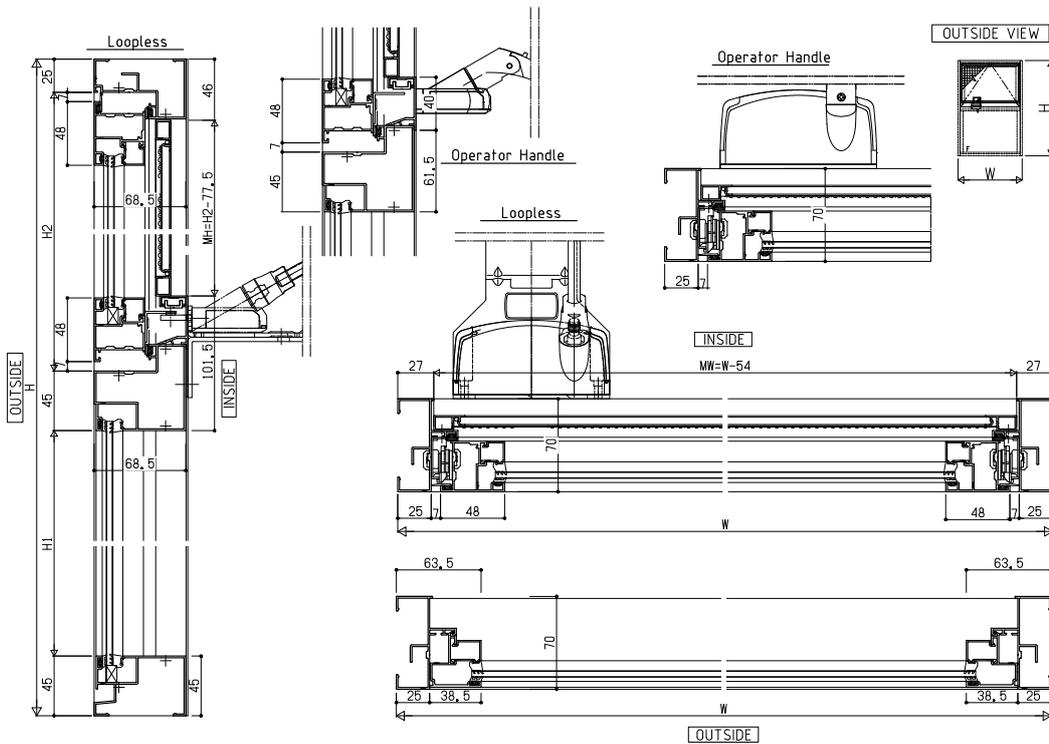
# HIGH VENTILATION WINDOW

## System Drawing & Size Limitation Insect Screen (Optional)

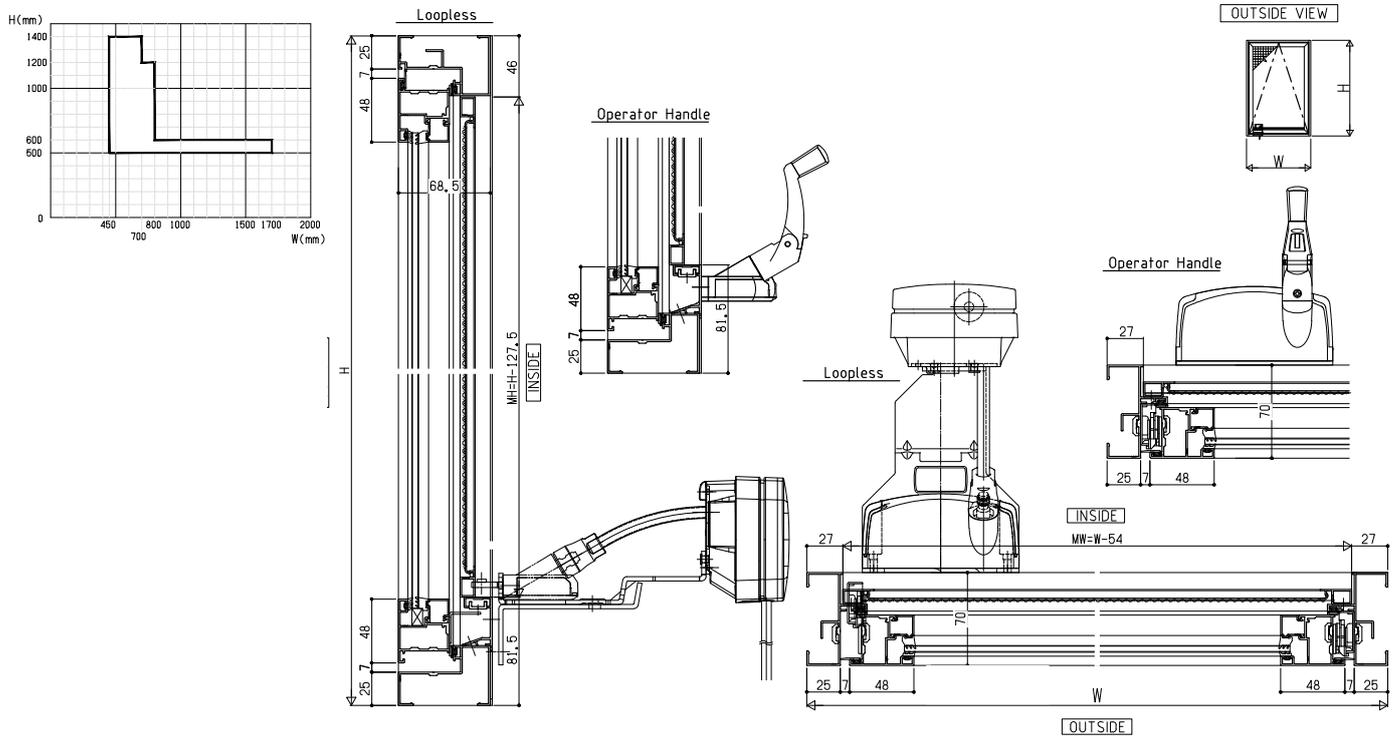
### Insect Screen FIX / TH



### Insect Screen TH / FIX

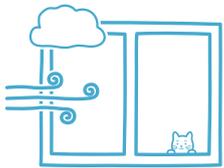


### Insect Screen TH





# 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)



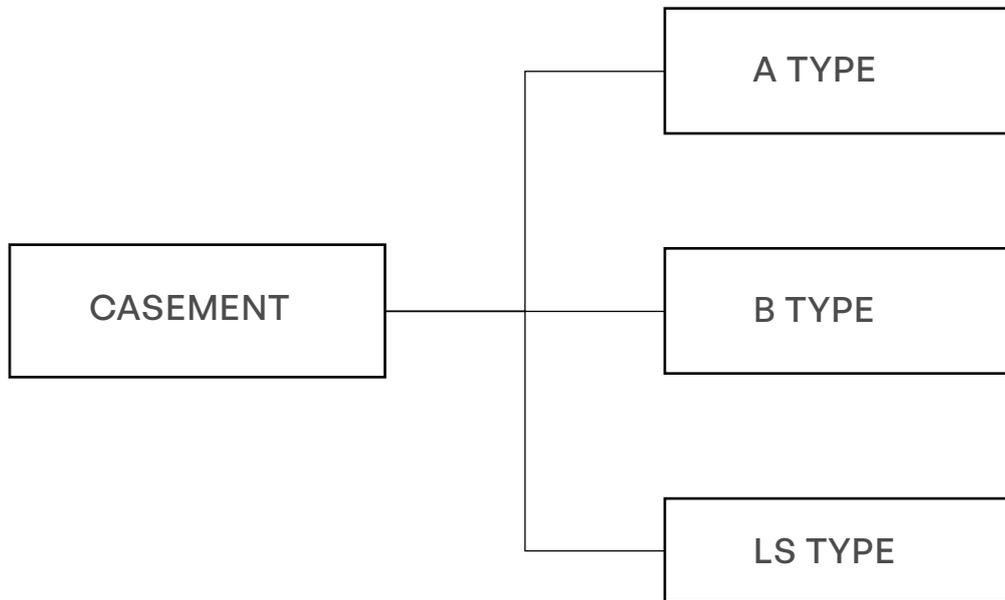
## Double Glazing



# CASEMENT

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## PRODUCT DIAGRAM



## VARIATION

**Single Swing**  
(Right Hand / Left Hand)



**Double Swing**



# CASEMENT

## 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										
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

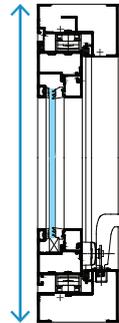
#### • Clear Design

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

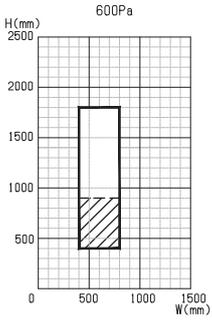
Enables the panel to be opened to 90°, cleaning the glass from indoor can be done easily and safely.



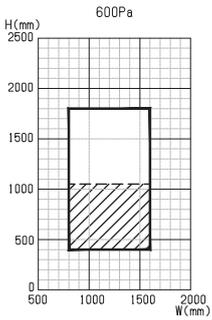


### A - Type

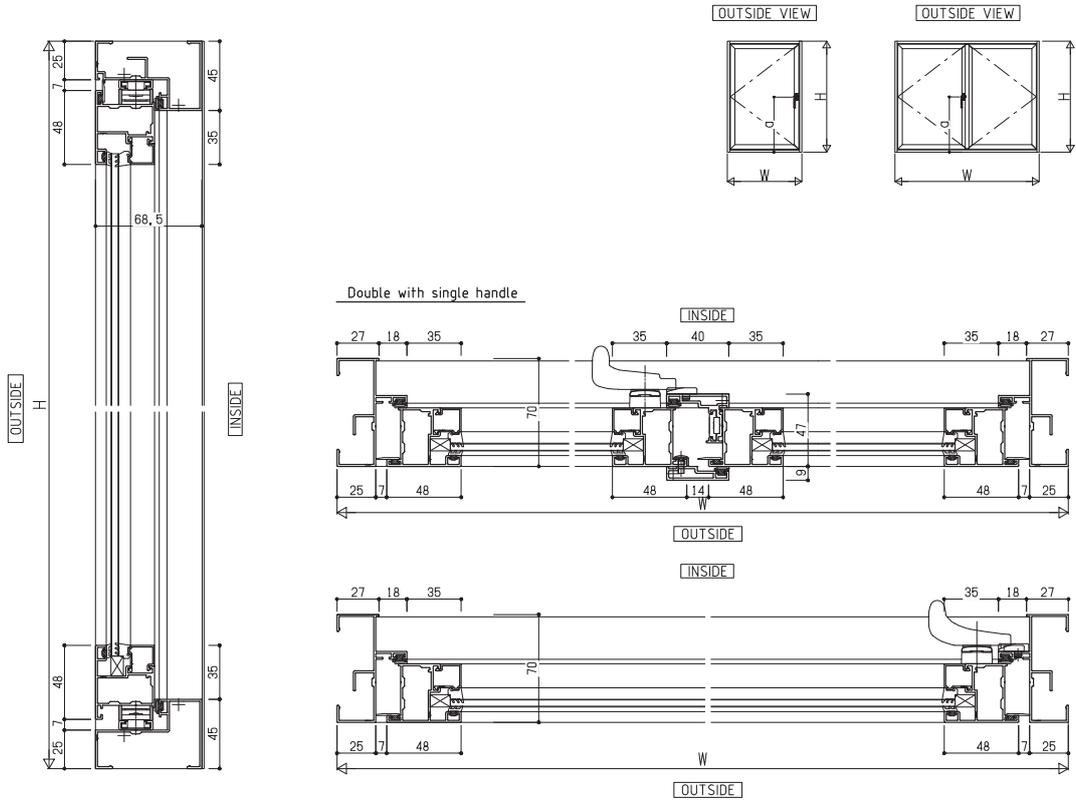
#### A - Type Single



#### A - Type Double

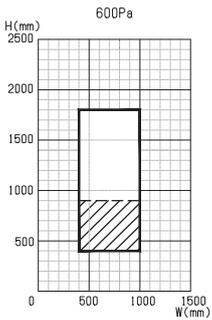


Hatched area can't install safety stopper

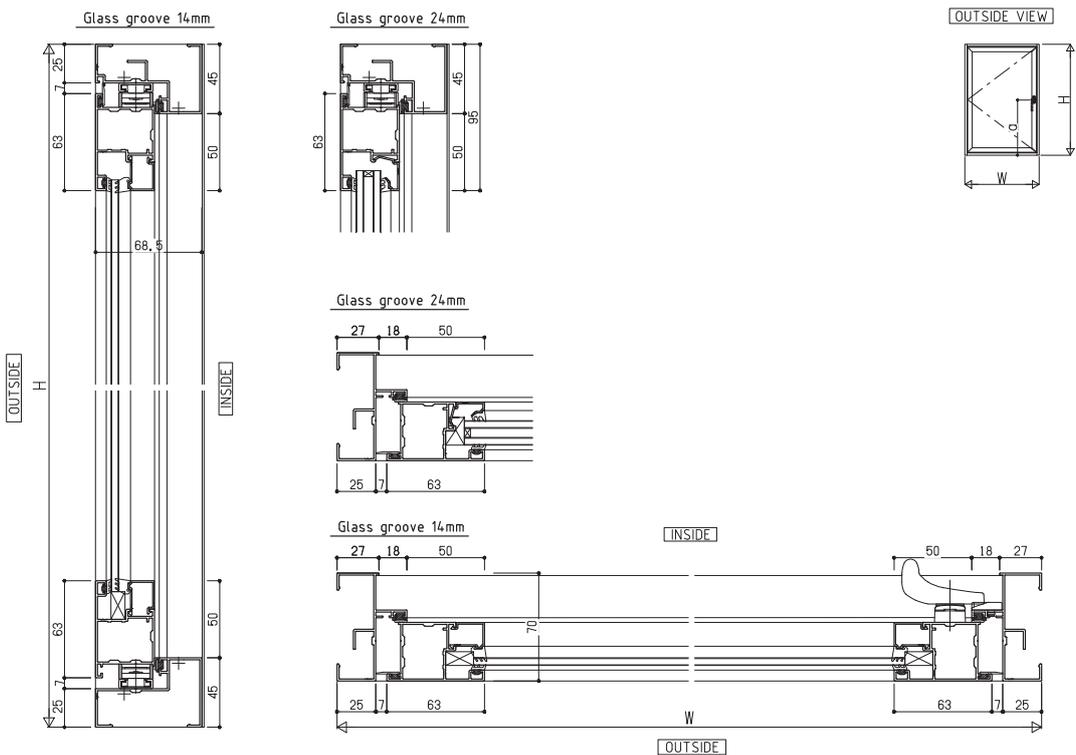


### B - Type Camlatch Single

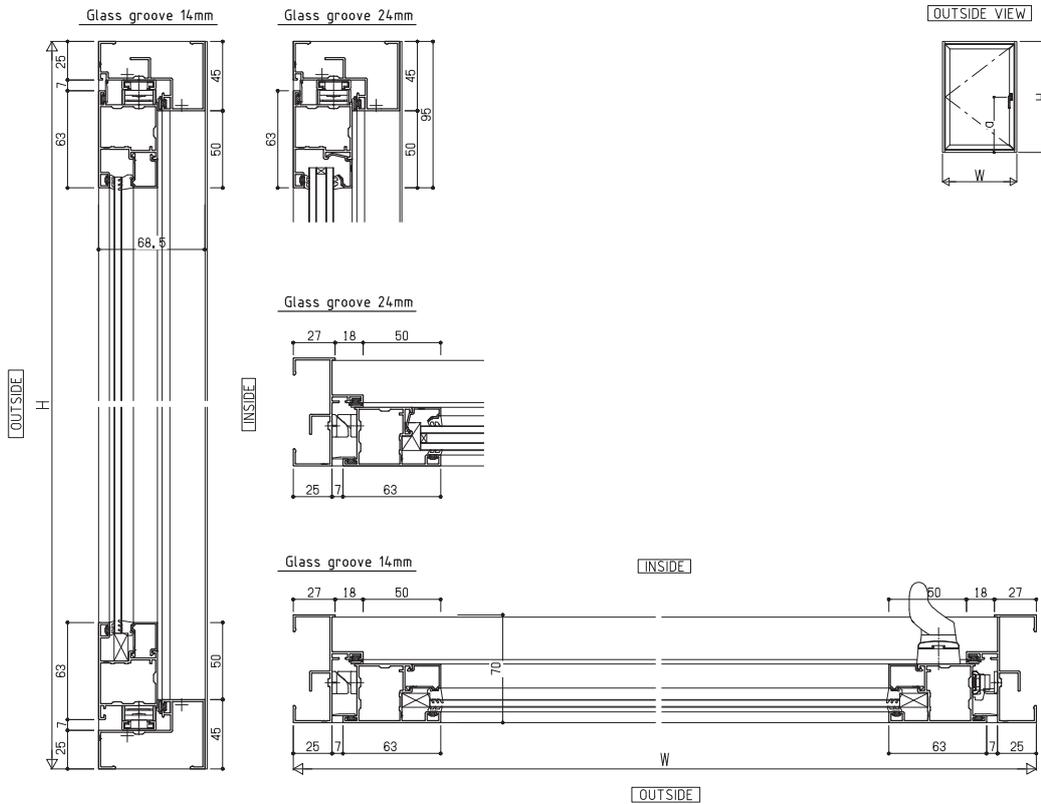
#### B - Type Camlatch Single



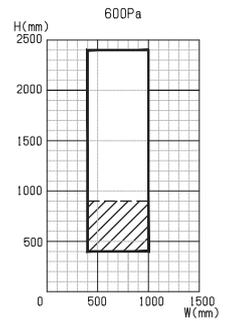
Hatched area can't install safety stopper



### B Type - Multipoint

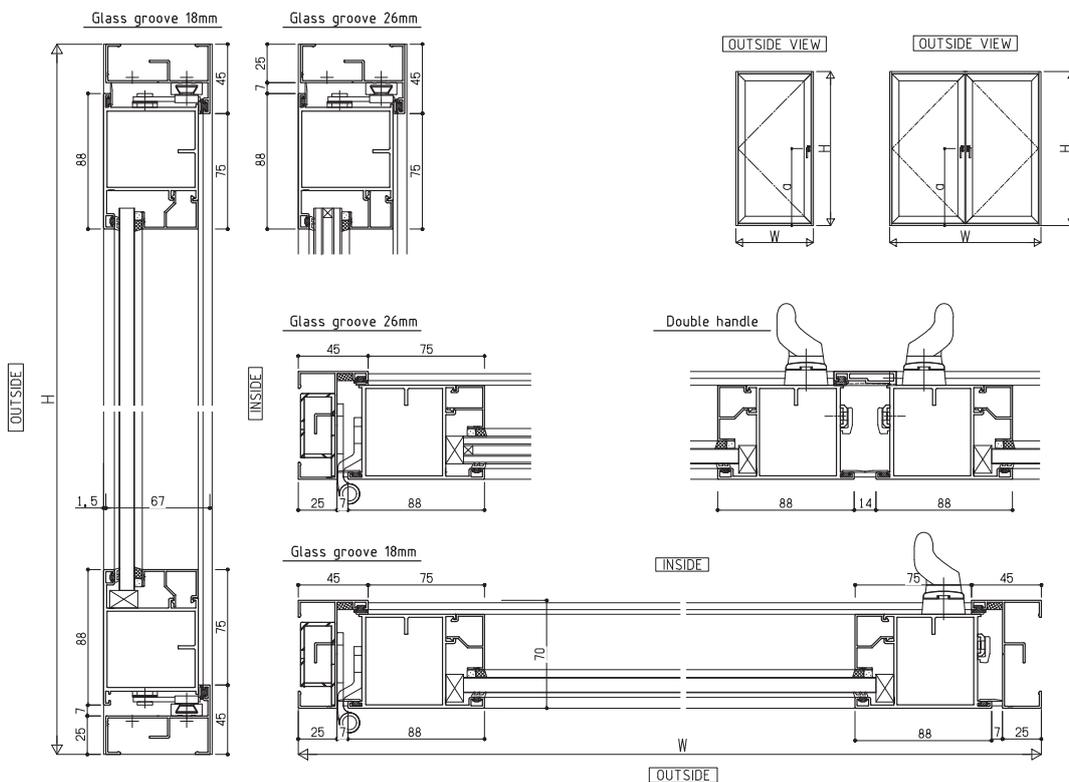


### B Type - Multipoint Single

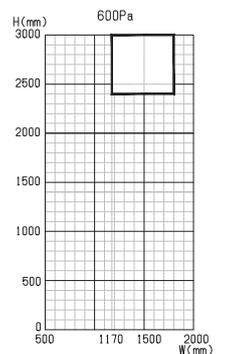
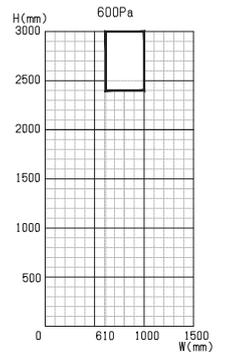


Hatched area can't install safety stopper

### LS Type

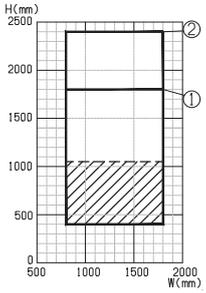


### LS Type



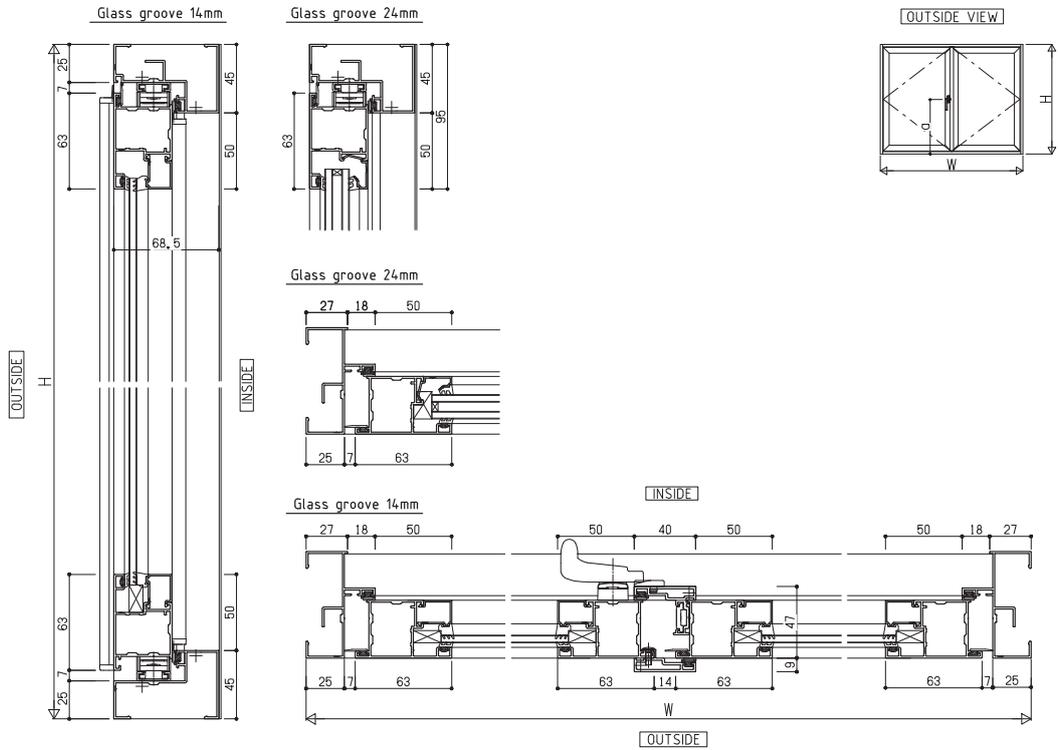
## B Type Camlatch Double

B Type Camlatch & Multipoint Double  
(Single Handle)



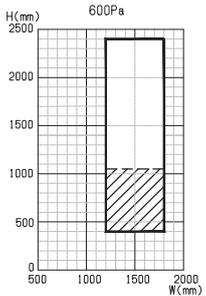
	LOCK	PRESSURE
1	CAMLATCH	600 Pa
2	MULTIPOINT	600 Pa

Hatched area can't install safety stopper

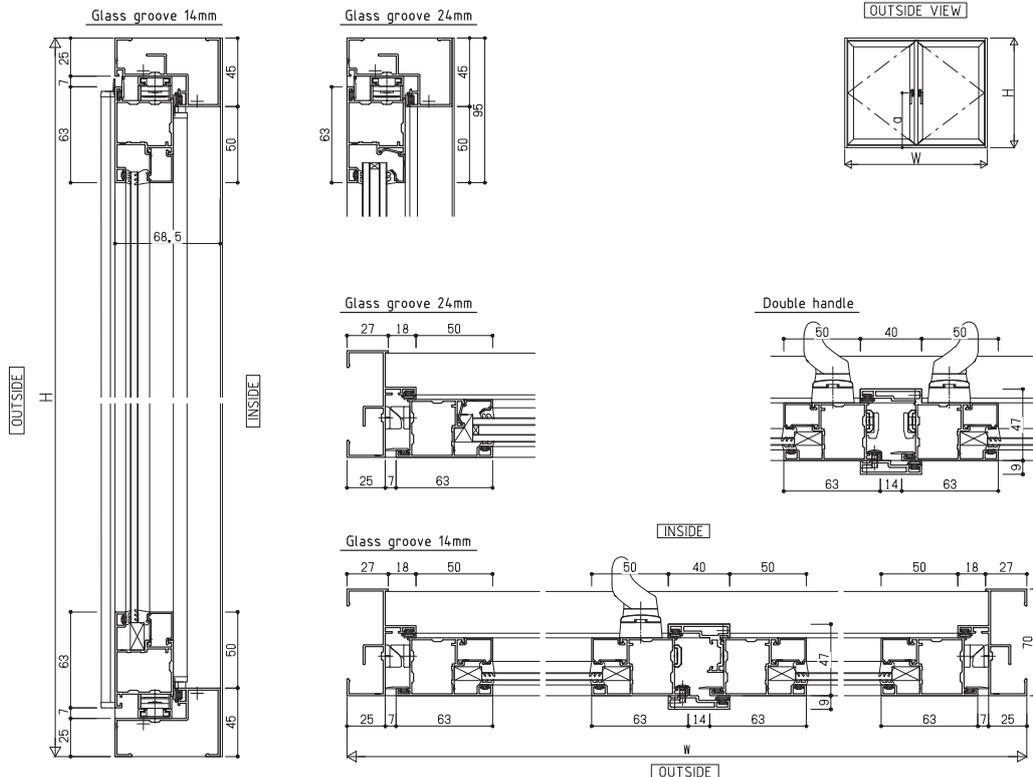


## B Type Multipoint Double

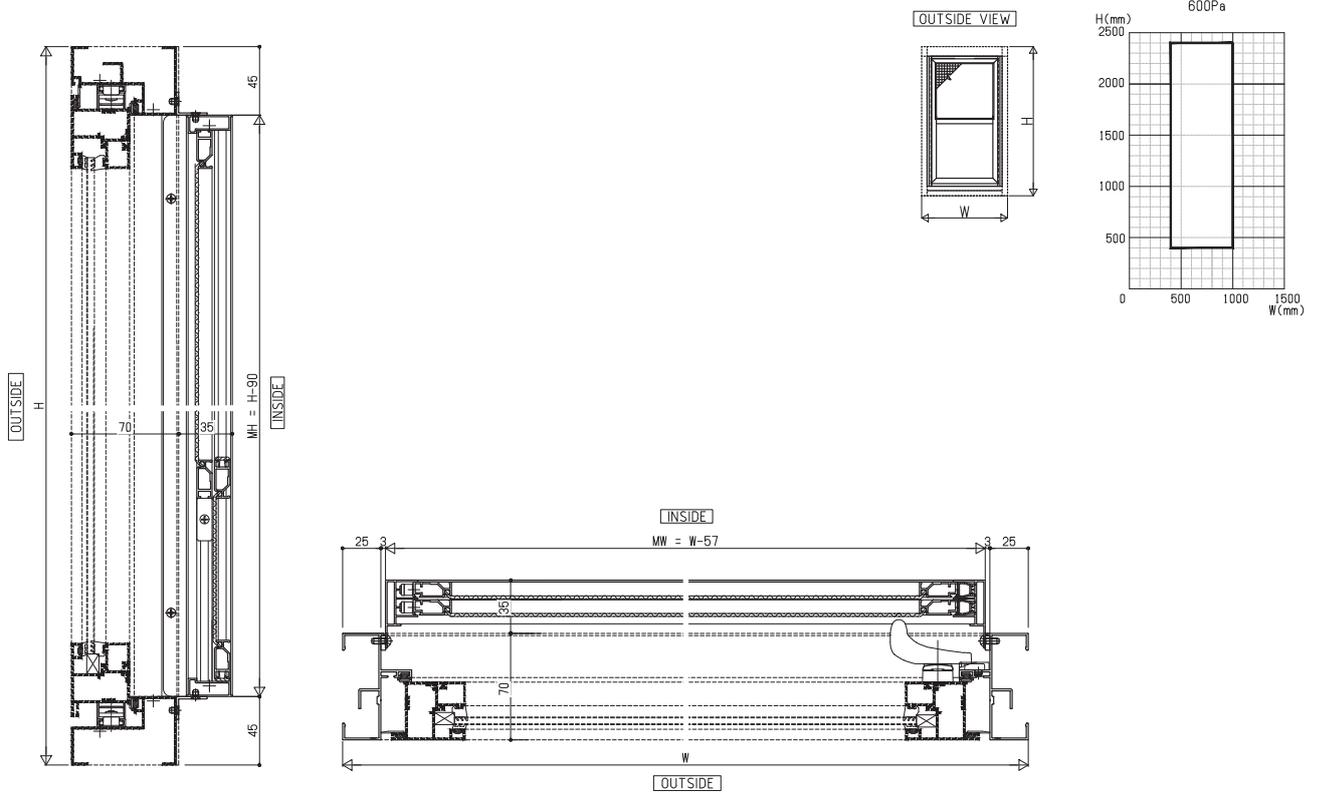
B Type Multipoint Double  
(Double Handle)



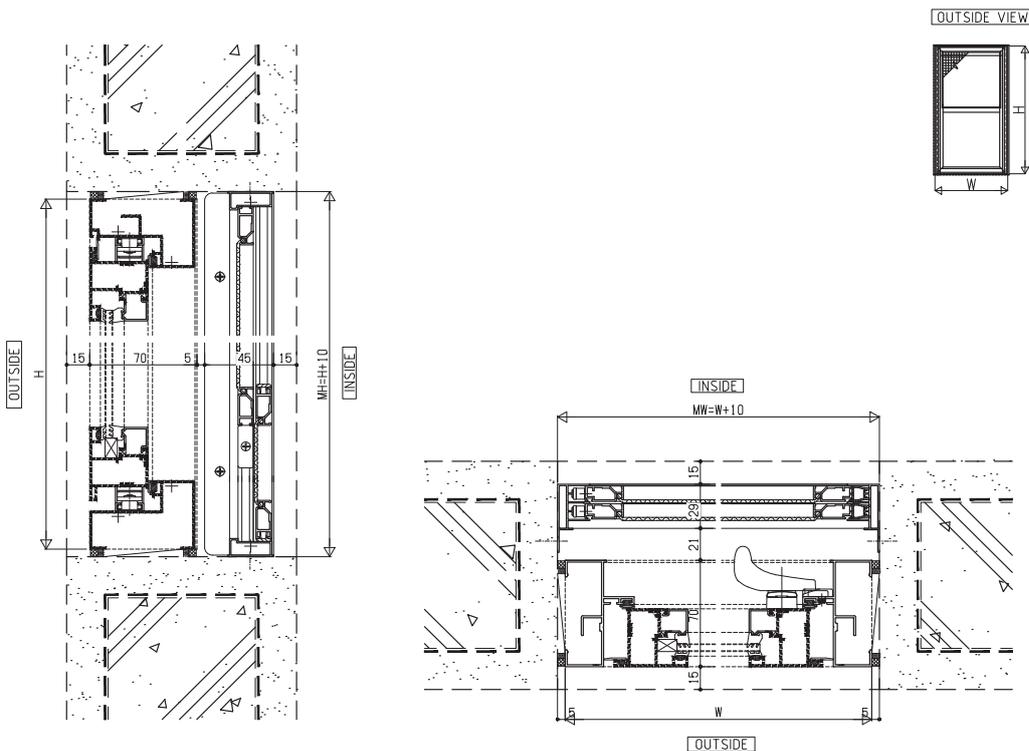
Hatched area can't install safety stopper



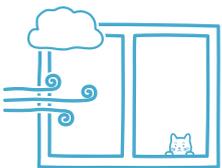
### Insect Screen - Vertical Sliding on Frame



### Insect Screen - Vertical Sliding on Wall



# BUTT HINGED DOOR



**Structural (Wind Load)**

600 Pa  
Deflection  
L/100



**Water Tightness**

150 pa



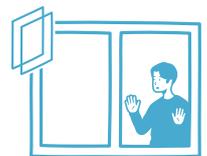
**Air Infiltration**

Grade A - 4(JIS)



**Sound Insulation**

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



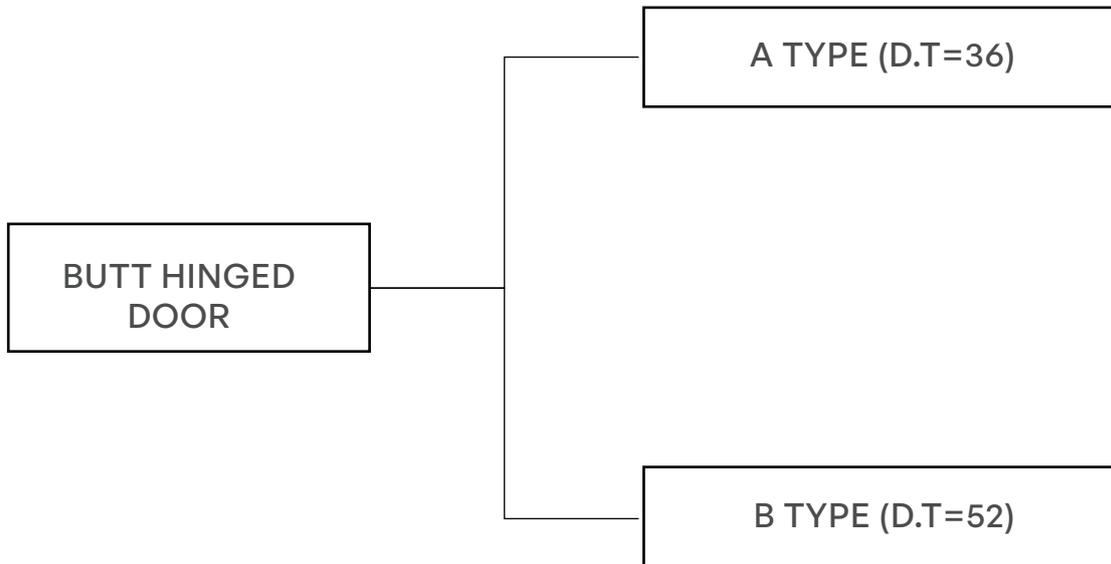
**Double Glazing**



\*\*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)

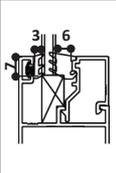
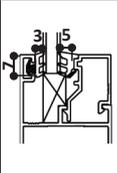
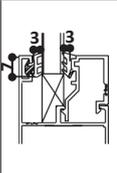
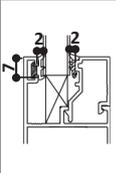
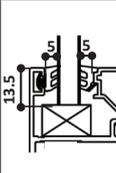
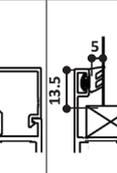
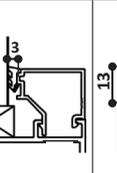
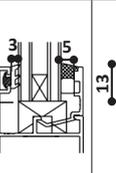
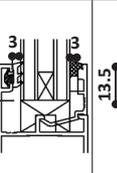
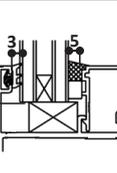


**Double Swing**  
(Inswing / Outswing)



# BUTT HINGED DOOR

## GLASS THICKNESS & GASKET MATRIX

		Glass & Gasket Type									
											
Glass Groove		14				18		24		26	
Glass Thickness		5	6	8	10	8	10	5+A6+5	6+A6+6	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-1321/U9-20-1/4 6K-10367/U9-1/4 5K-19283/U9-1/4	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

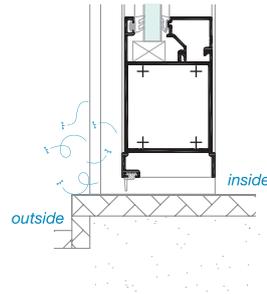
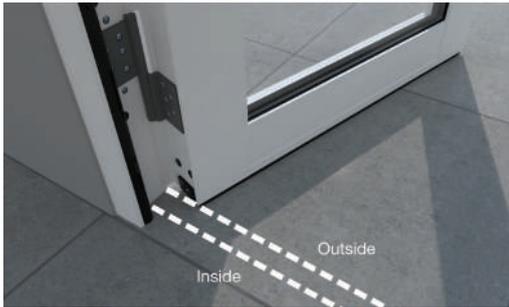
## FEATURES

### Reliable Performance

#### • Without Bottom Sill

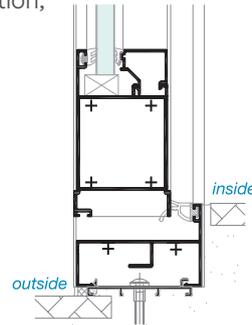
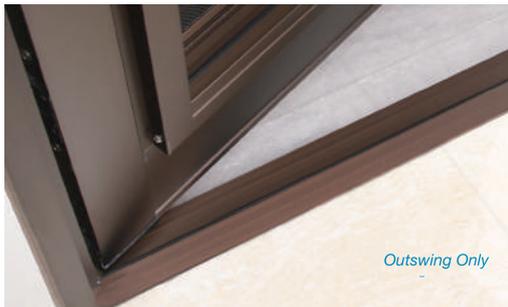
Can prevent you from insect and dust to come in.

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

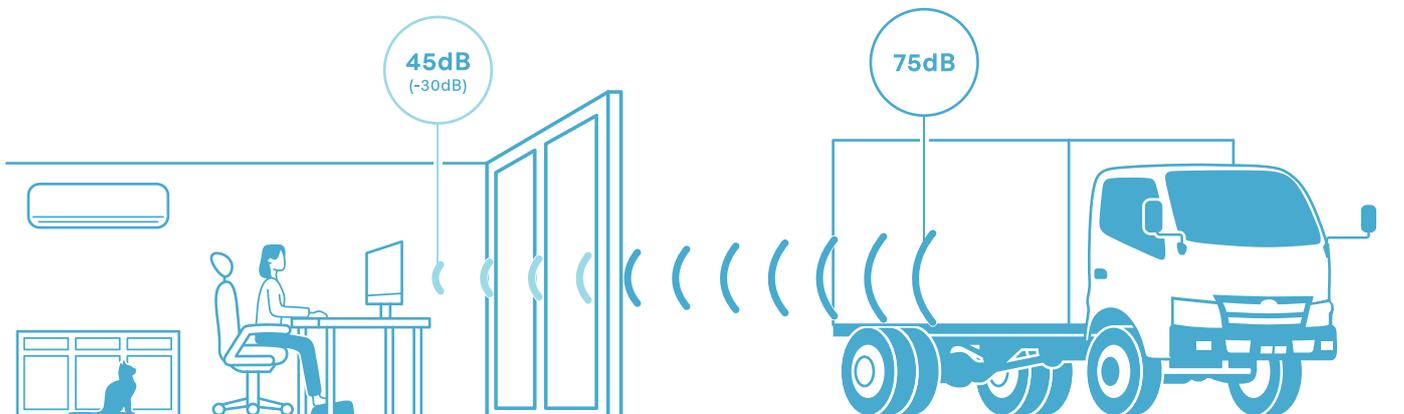


#### • Nexsta (with Bottom Sill)

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)



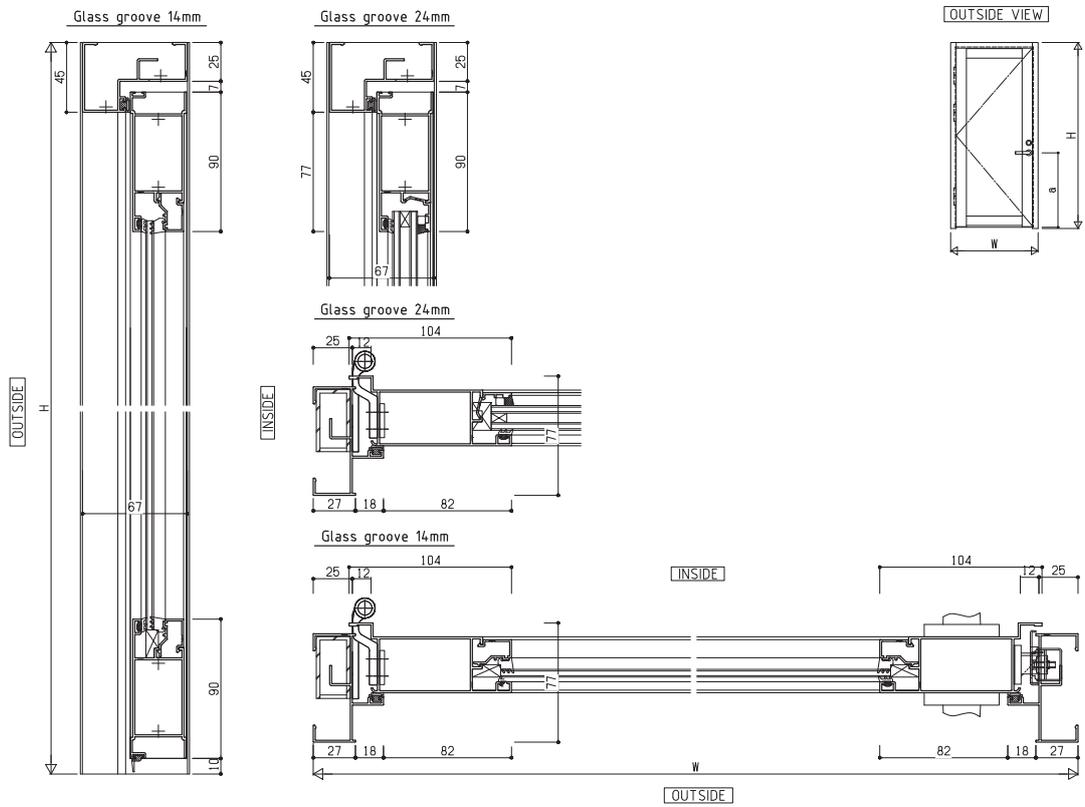
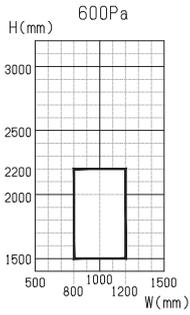


# BUTT HINGED DOOR

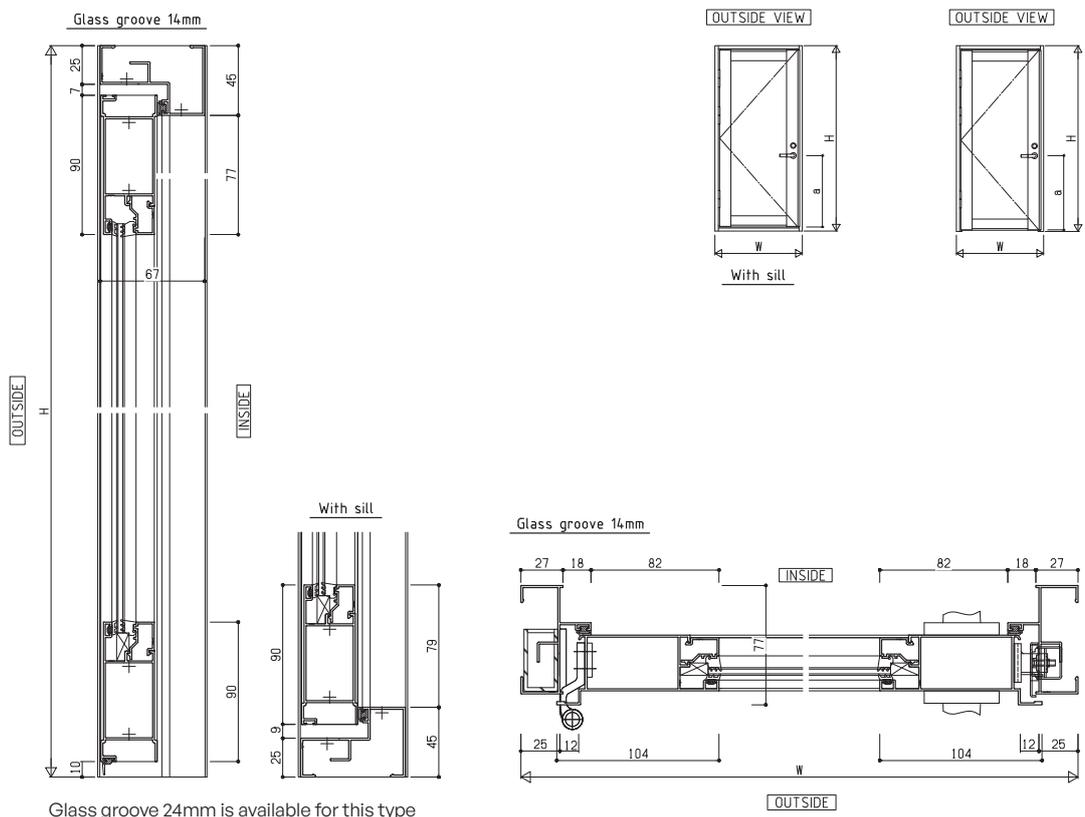
## System Drawing & Size Limitation

### DT 36 Inswing Single

DT = 36 Single



### DT 36 Outswing Single



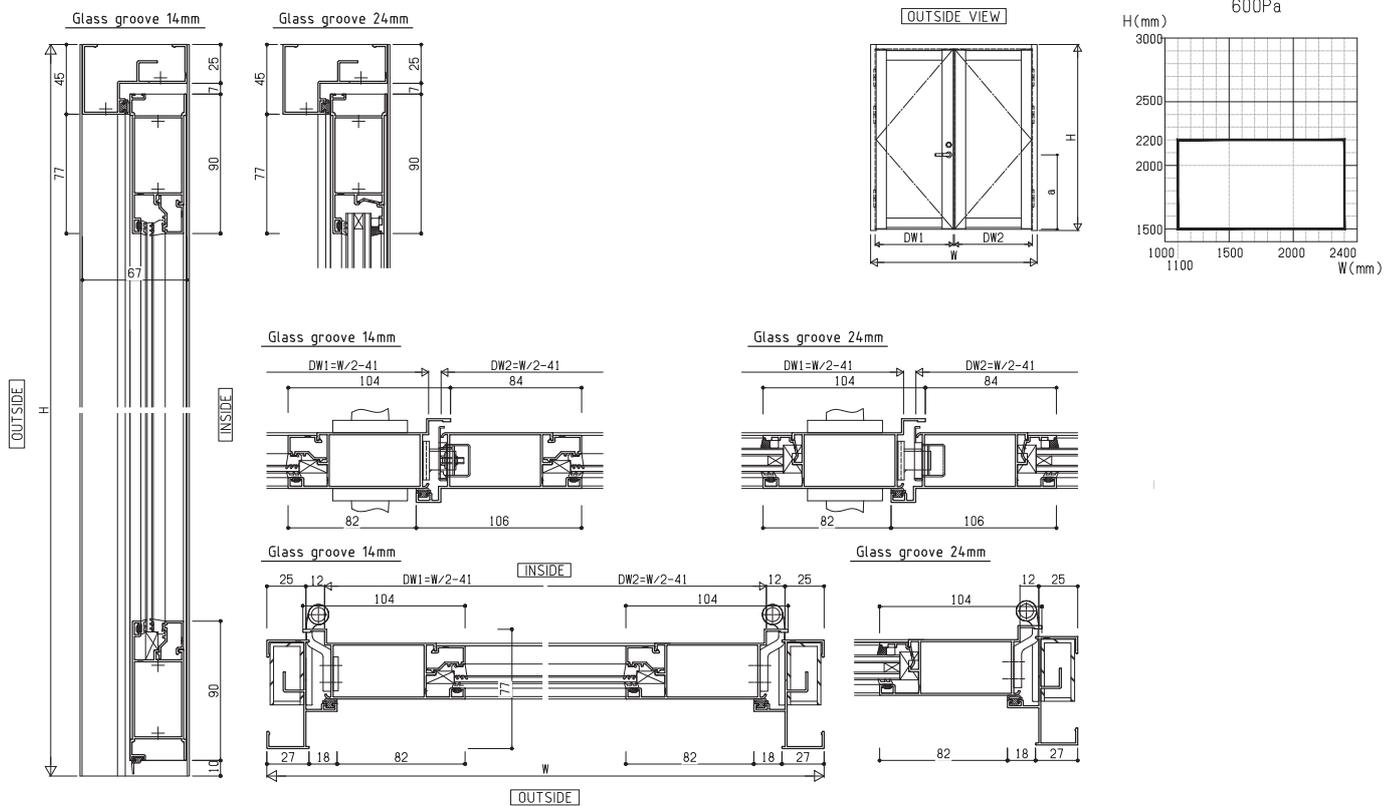
Glass groove 24mm is available for this type

# BUTT HINGED DOOR

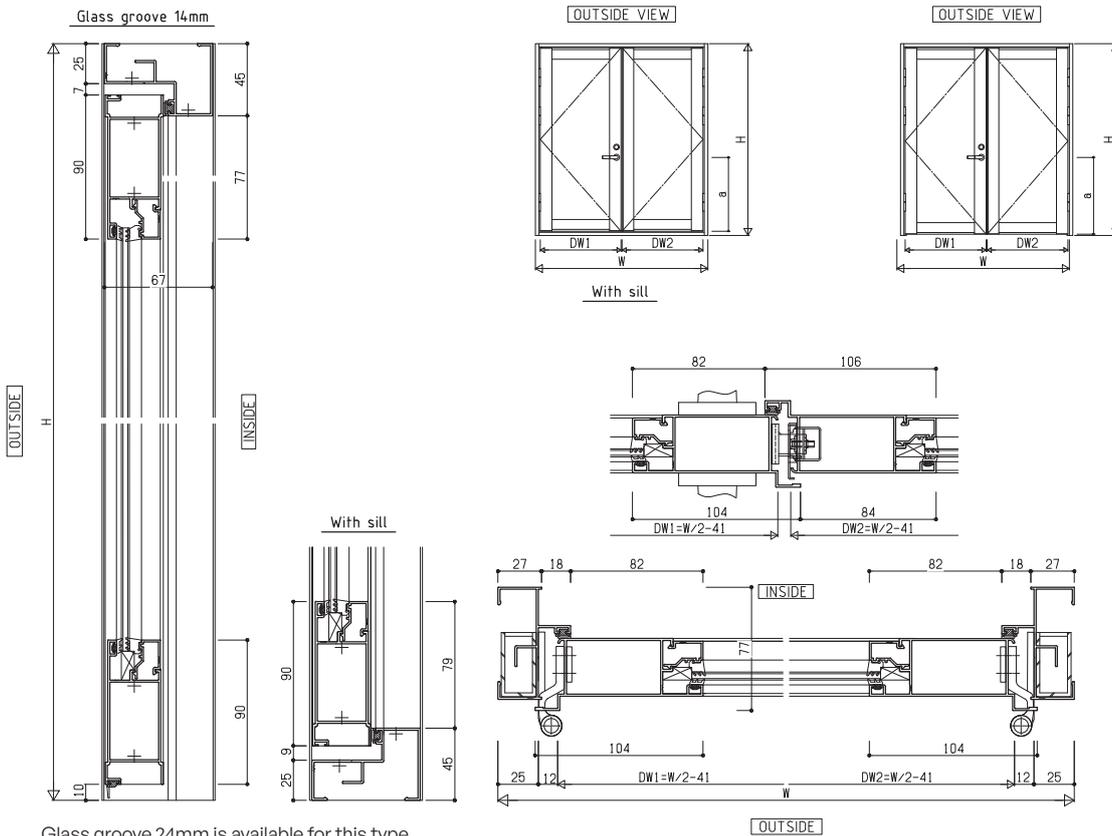
# System Drawing & Size Limitation

## DT 36 Inswing Double

DT = 36 Double



## DT 36 Outswing Double



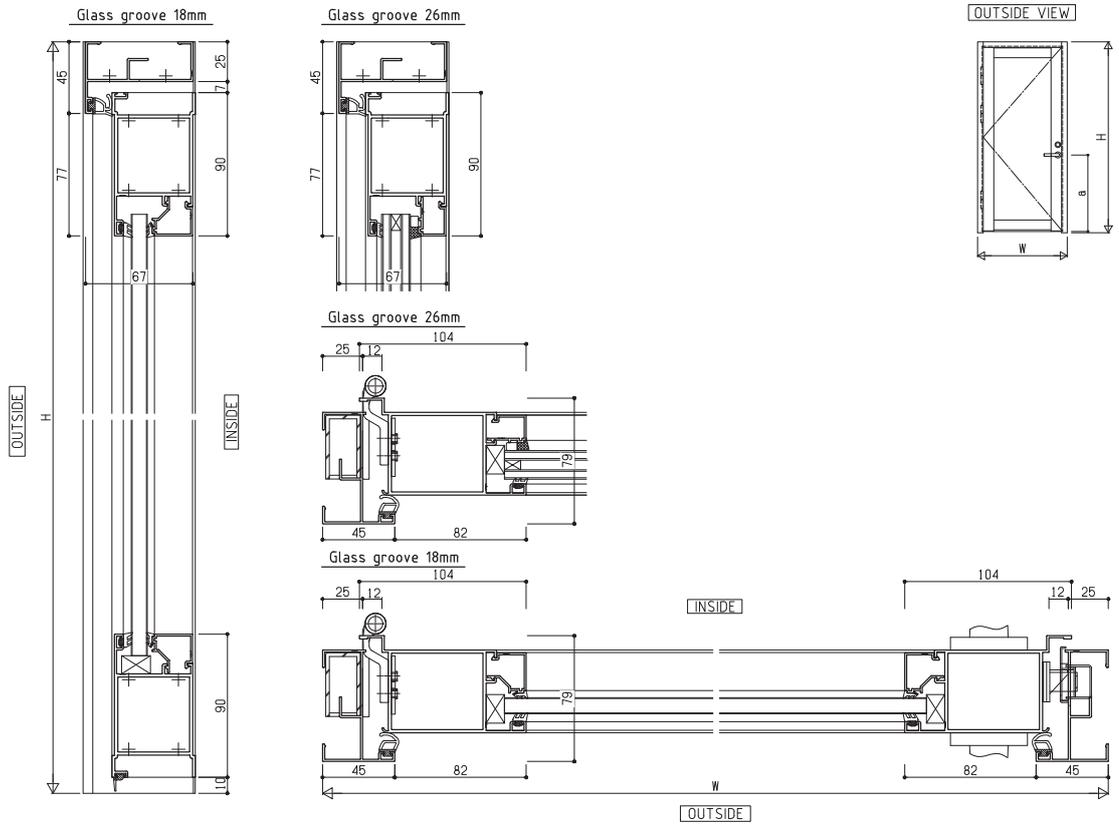
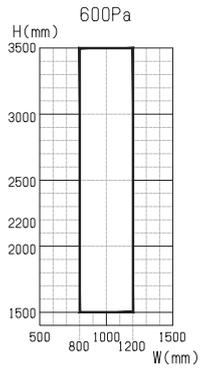
Glass groove 24mm is available for this type

# BUTT HINGED DOOR

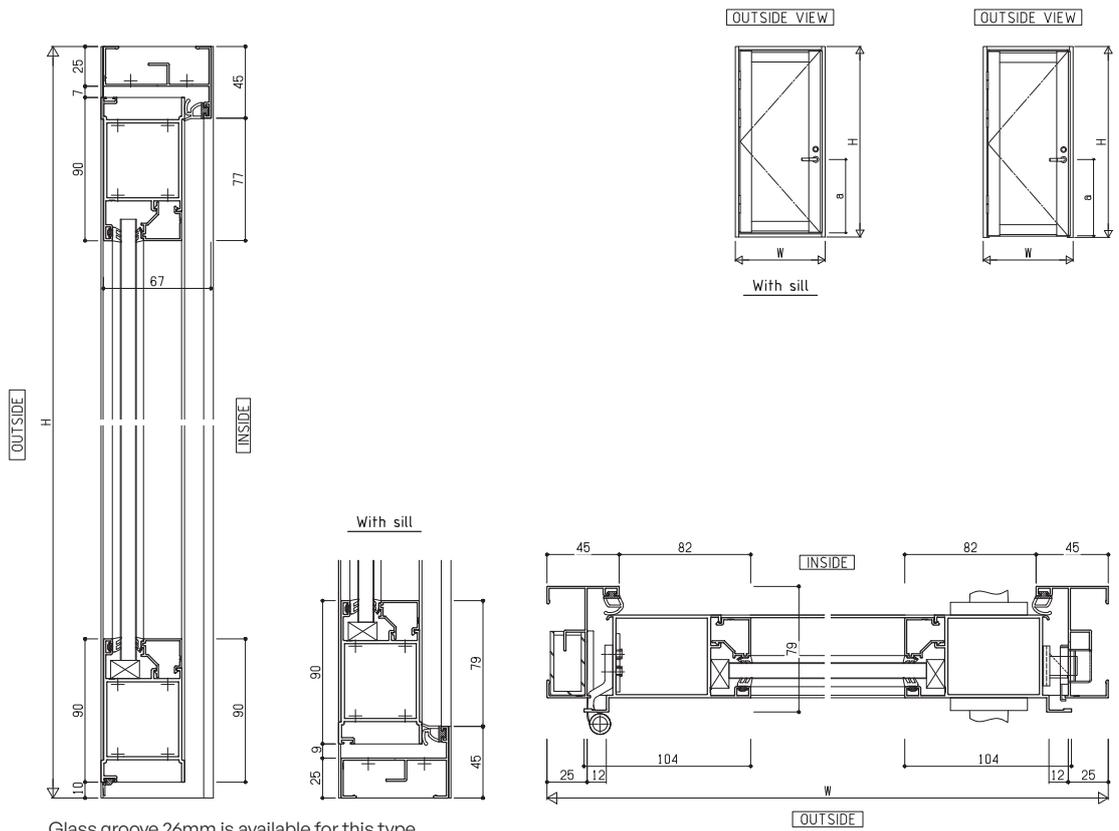
## System Drawing & Size Limitation

### DT 52 Inswing Single

DT = 52 Single



### DT 52 Outswing Single



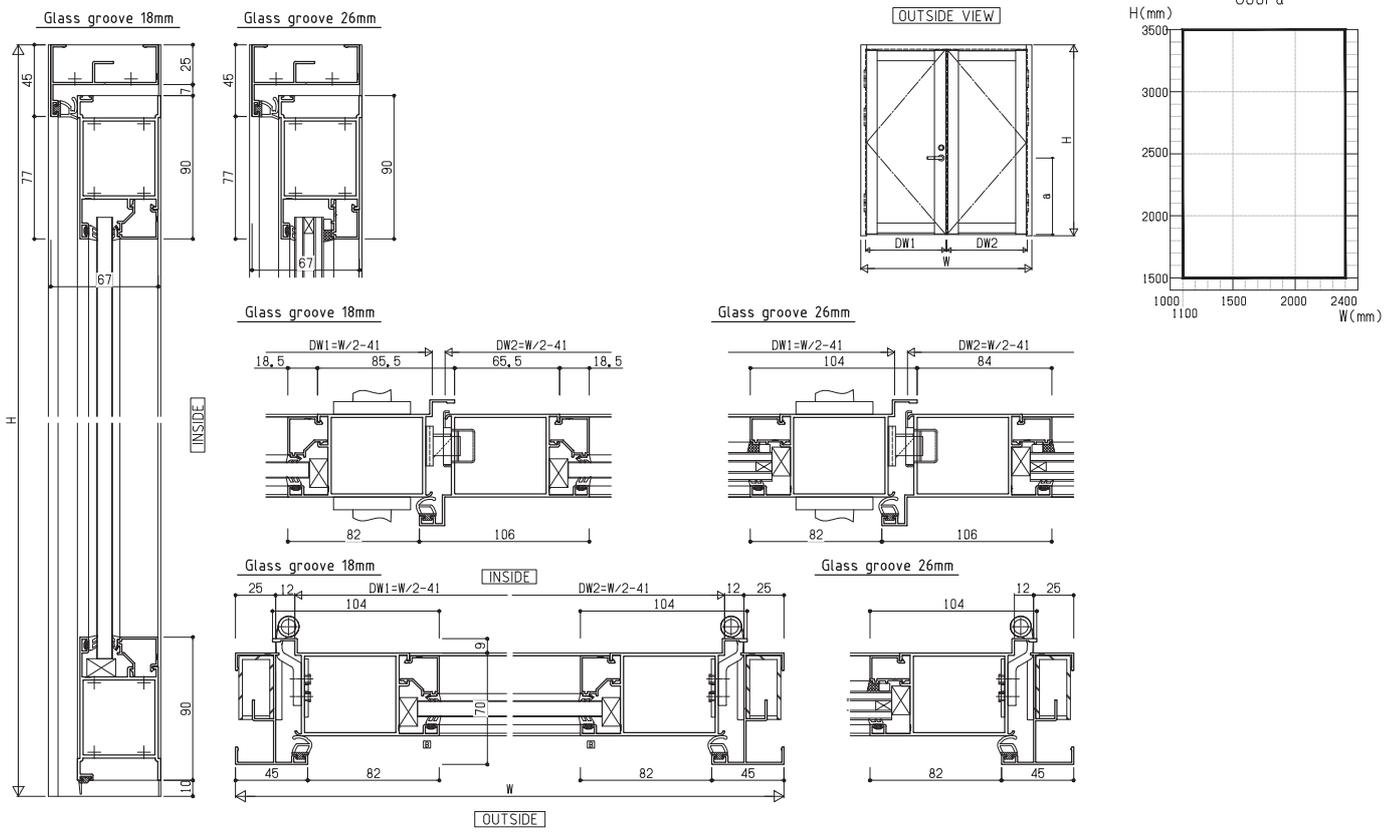
Glass groove 26mm is available for this type

# BUTT HINGED DOOR

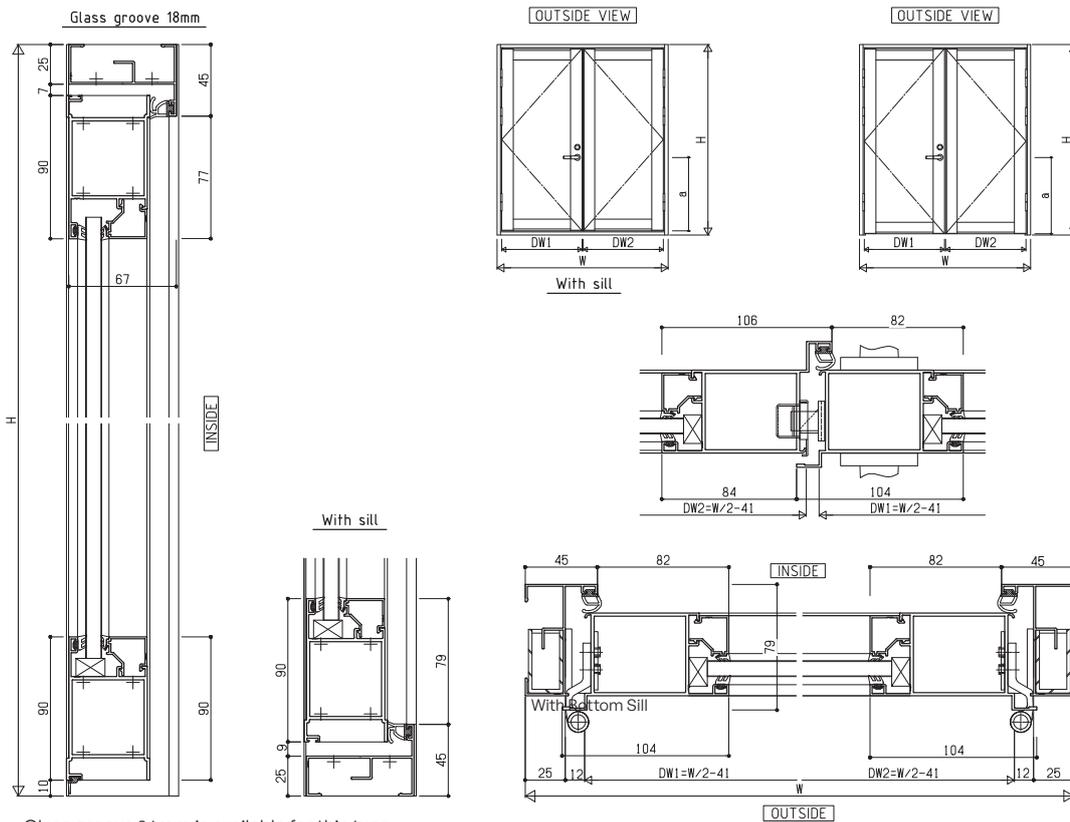
## System Drawing & Size Limitation

### DT 52 Inswing Double

DT = 52 Double

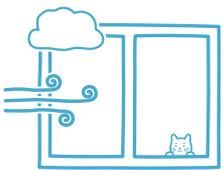


### DT 52 Outswing Double



Glass groove 26mm is available for this type

# VENTILATION DOOR



**Structural (Wind Load)**

1000 Pa  
Deflection  
L/125



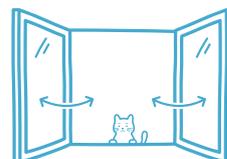
**Water Tightness**

50 pa



**Air Infiltration**

Grade A - 2(JIS)



**Open-close Test**

JIS A 1550  
100,000 cycle



# VENTILATION DOOR

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## PRODUCT DIAGRAM



## VARIATION

Single Swing Outswing  
(Right Hand / Left Hand)



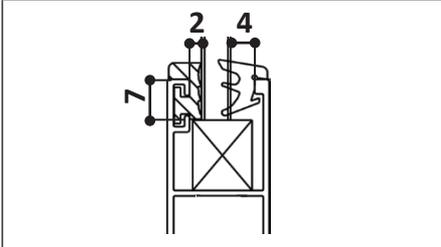
Composite Window



# VENTILATION DOOR

## GLASS THICKNESS & GASKET MATRIX

### Glass & Gasket Type

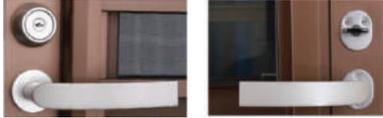


Glass Groove		11
Glass Thickness		5
Standard		●
Gasket Number	Out	K-21240
	In	K-21165

● Available

# VENTILATION DOOR

## PARTS MATRIX

	Standard				Optional
					
Item	Door Handle		Double Hung Sliding Lock	Butt Hinge	
Standard	●		●	●	
Color	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.



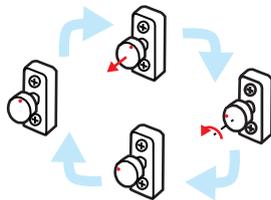
Double Hung windows are mounted inside, allowing ventilation while the door is closed.

\* 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.

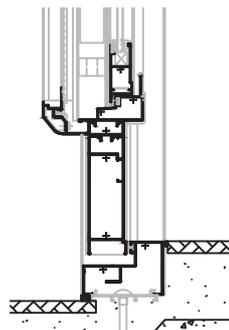


### Reliable Performance

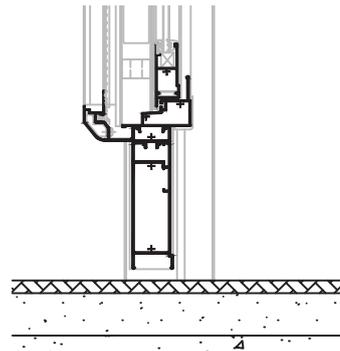
#### • With Bottom Sill

Performance is secured by the Bottom Sill to prevent water leakage.

#### • Without Bottom Sill



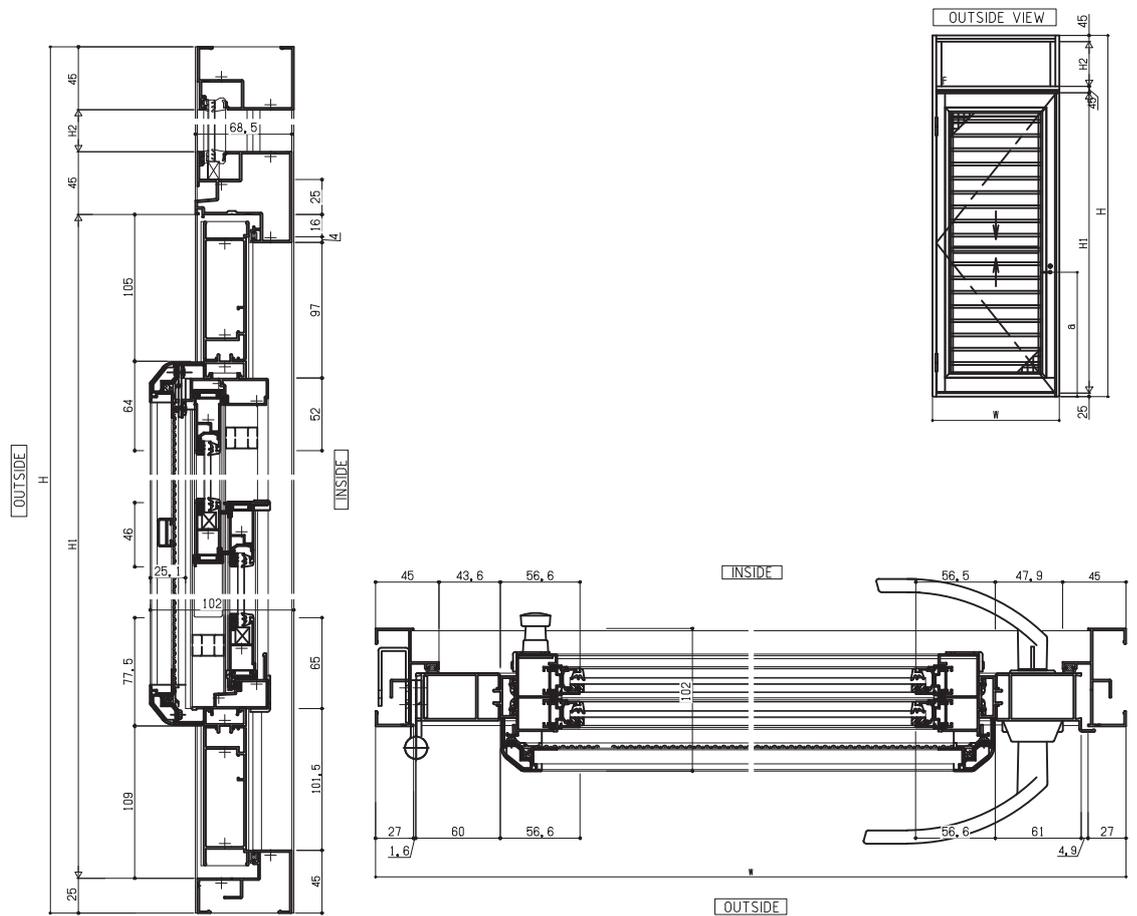
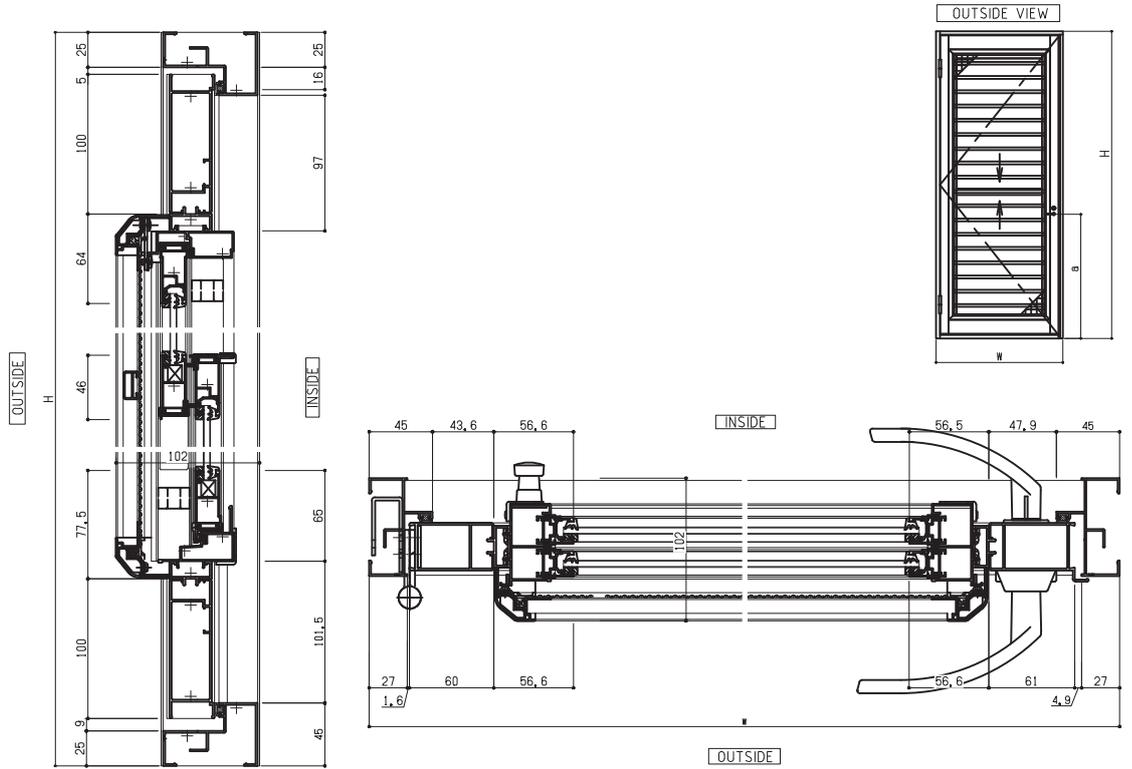
Provided with Bottom Sill to prevent water and dust leak inside



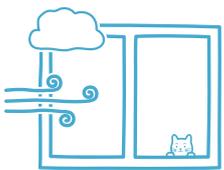
# VENTILATION DOOR

## 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



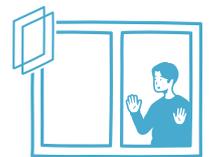
## Air Infiltration

Grade A - 4(JIS)



## Sound Insulation

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

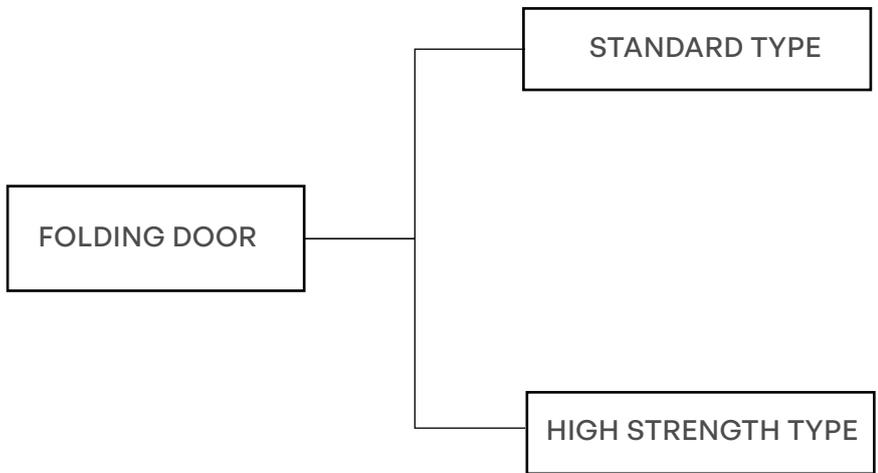


## Double Glazing



# FOLDING DOOR

## PRODUCT DIAGRAM



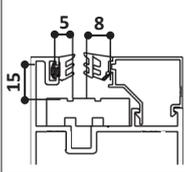
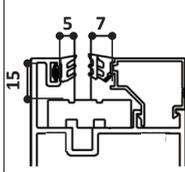
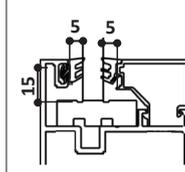
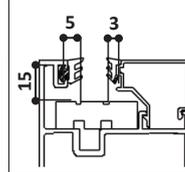
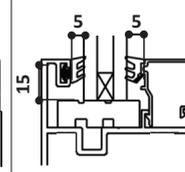
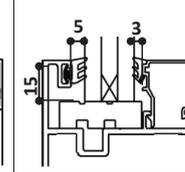
## LEAVES AND OPENING VARIATION

	→ 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

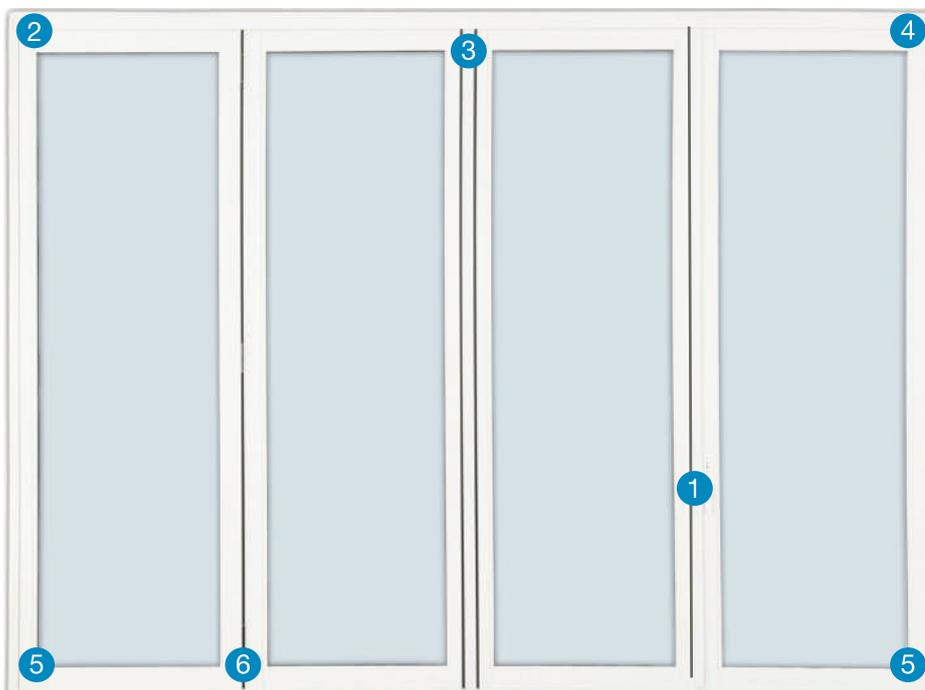
	Standard						Optional	
								
Item	Cremona Handle	Hanger Roller	Hinge	Safety Rubber	Stopper	Key Cylinder		
Standard	●	●	●	●	●	●		
High Strength	●	●	●	●	●	●		
Color	DG, YW	YS	DG, YW	DG	DG, YW	DG, YW		
Parts Number	9K-10908 9K-10904	5K-18201	5K-18204 5K-18205 5K-13812 5K-13813	3K-22098	2K-38276	9K-11116	9K-11115	

● Available

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

# FOLDING DOOR

## FEATURES



### Design

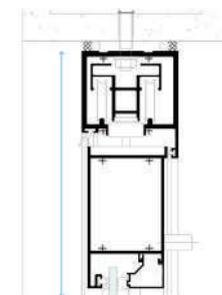
#### Slim Handle



#### Neat Frame



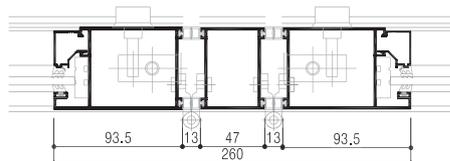
Inner frame in a line



## Performance and Workability

### • High Strength Inner Frame Setting

Support large opening, support anti typhoon strength



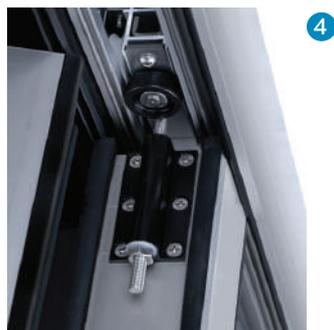
### • Weep Hole

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



### • Hanger Roller

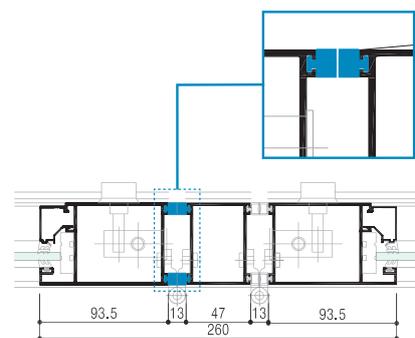
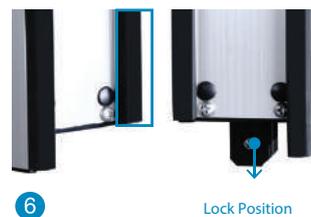
Ensure the smoothness and durable against heavy duty.



## 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.



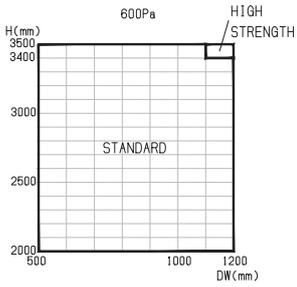


# FOLDING DOOR

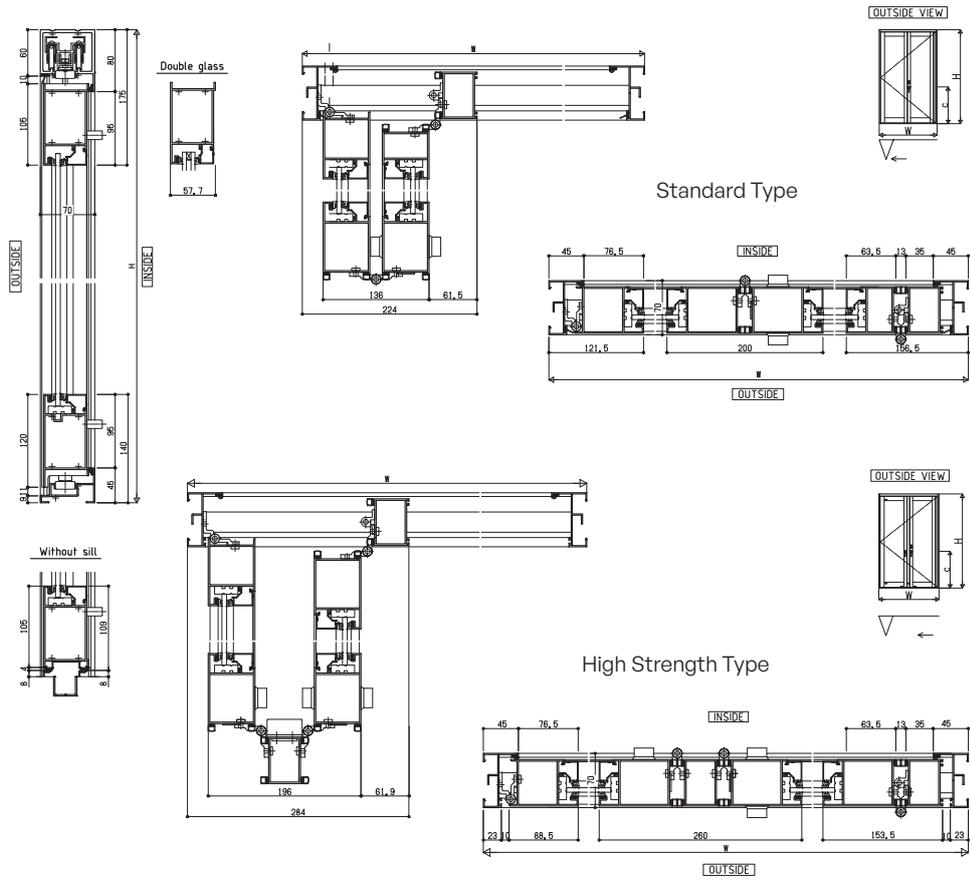
## System Drawing & Size Limitation

### 2 Leaves Outswing

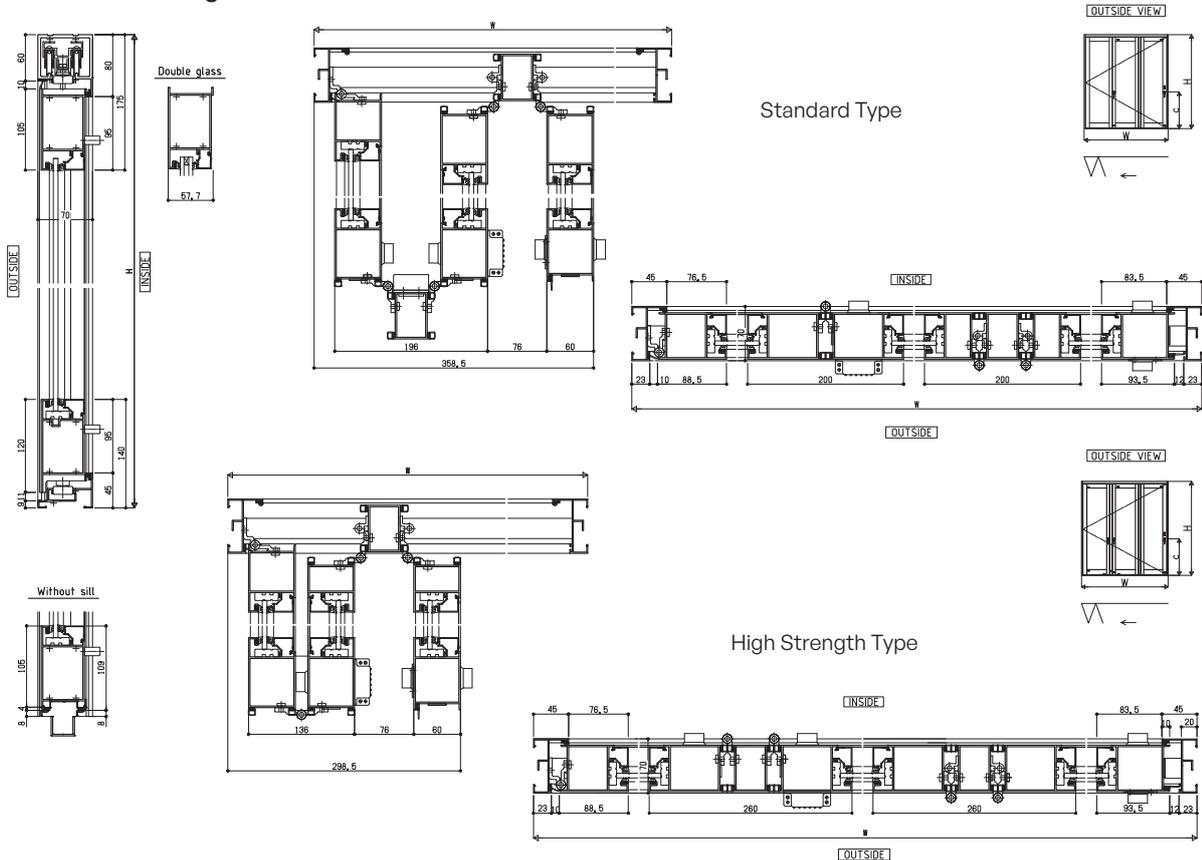
2 - 8 Leaves



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



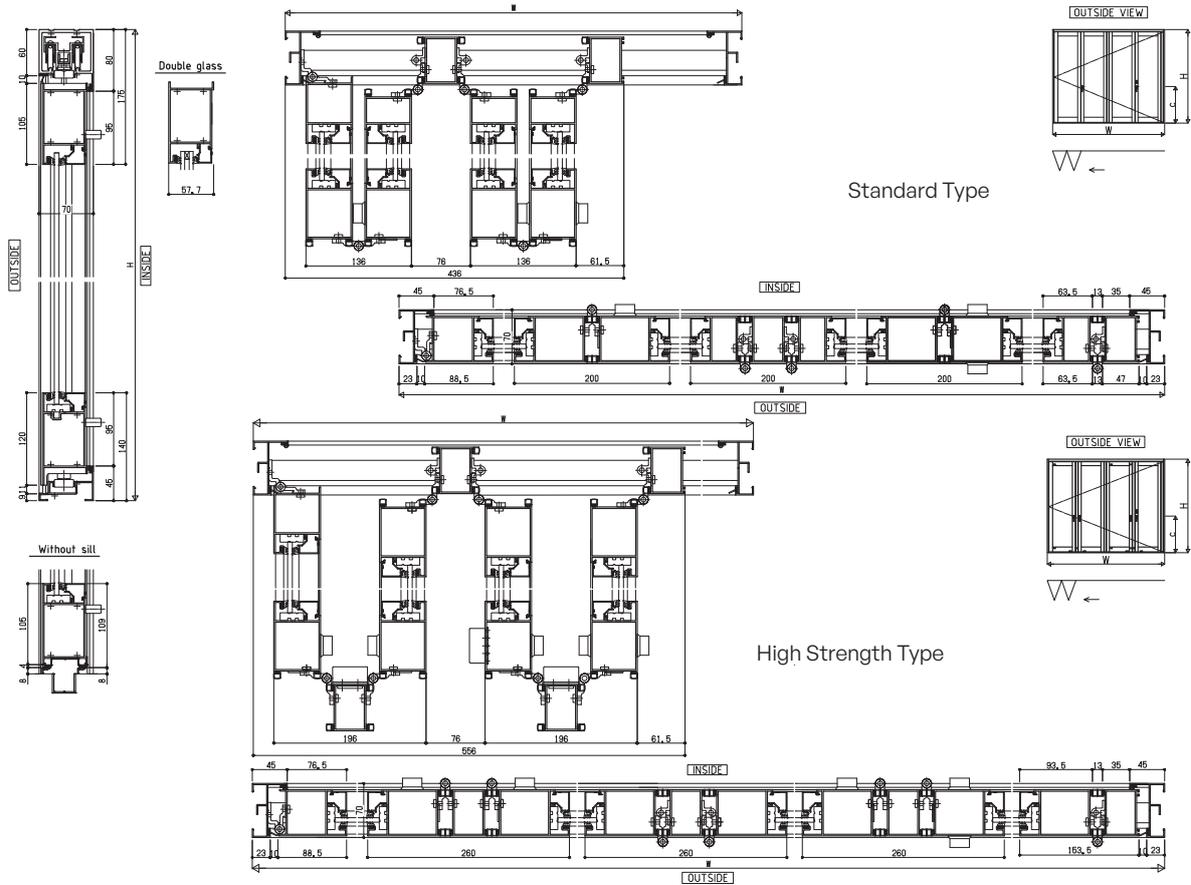
### 3 Leaves Outswing



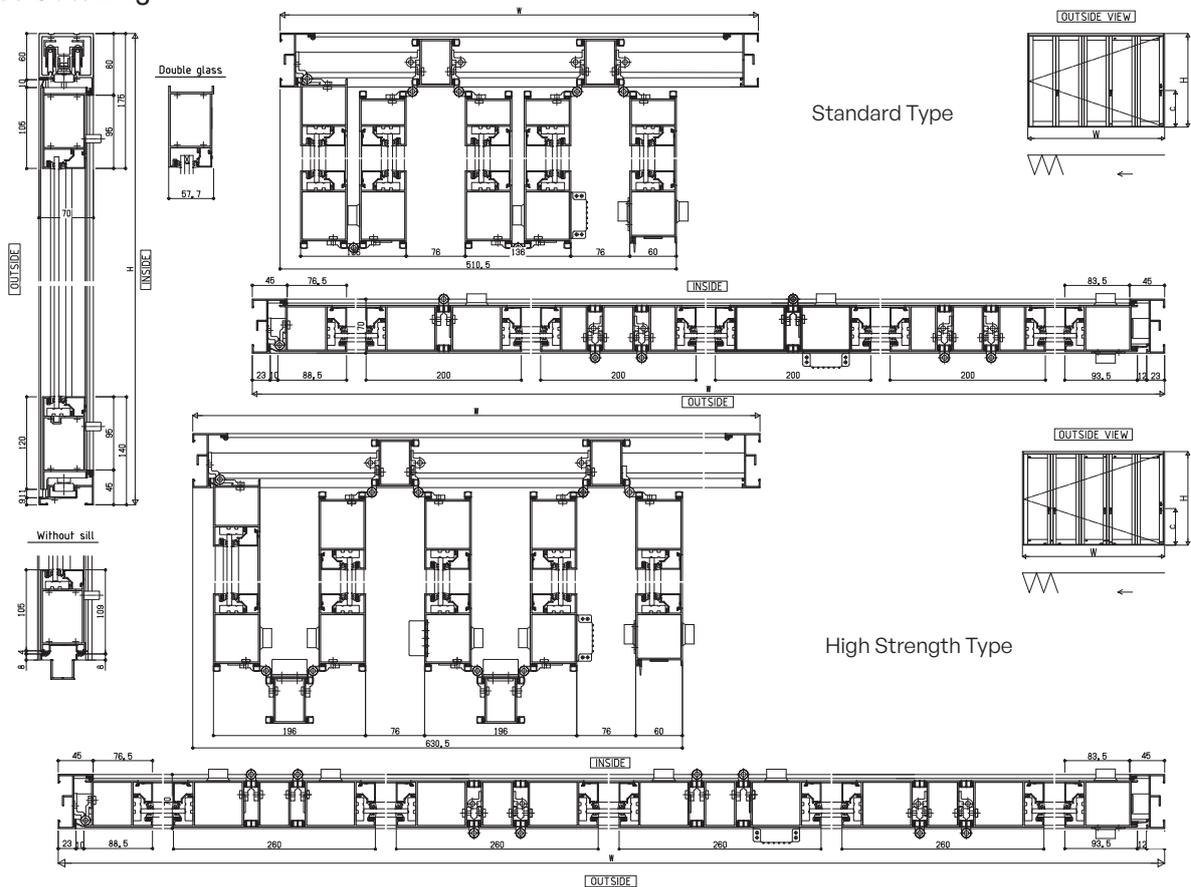
# FOLDING DOOR

## System Drawing & Size Limitation

### 4 Leaves Outswing



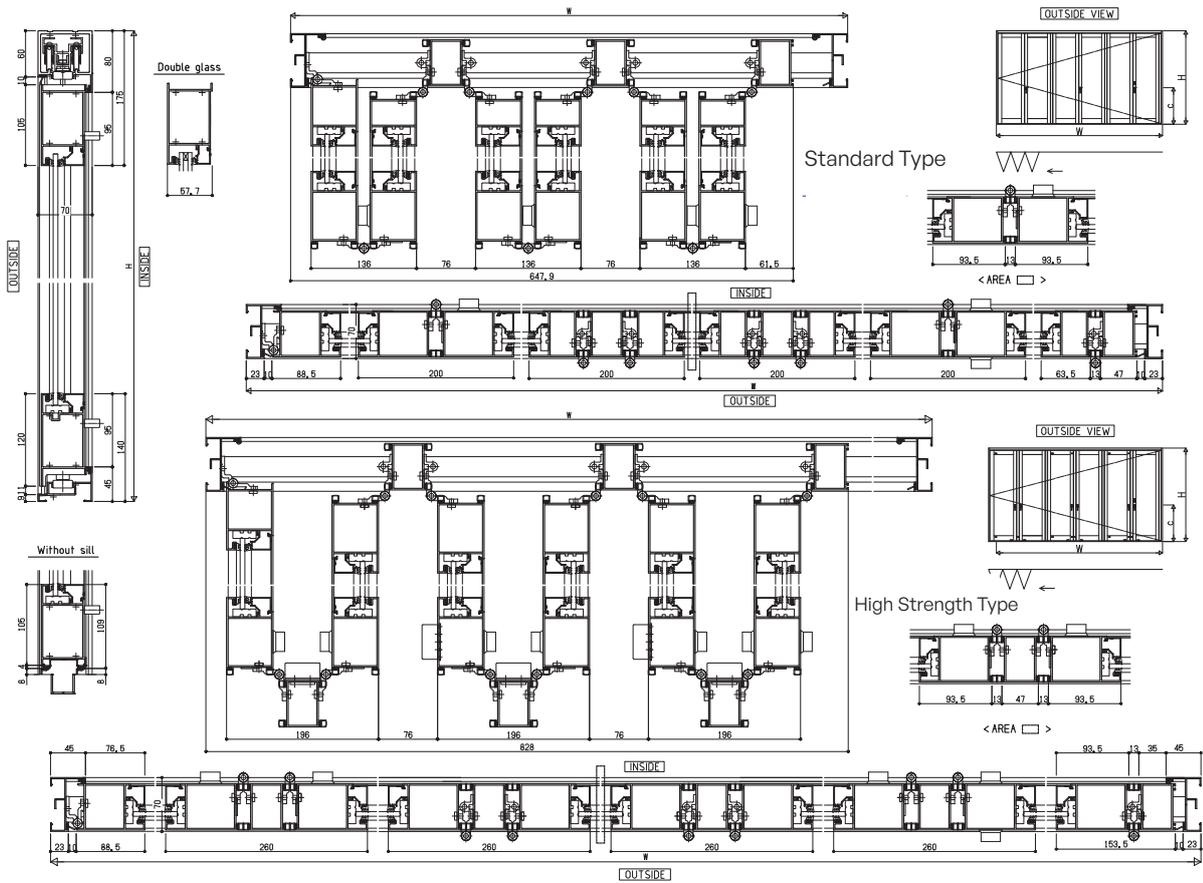
### 5 Leaves Outswing



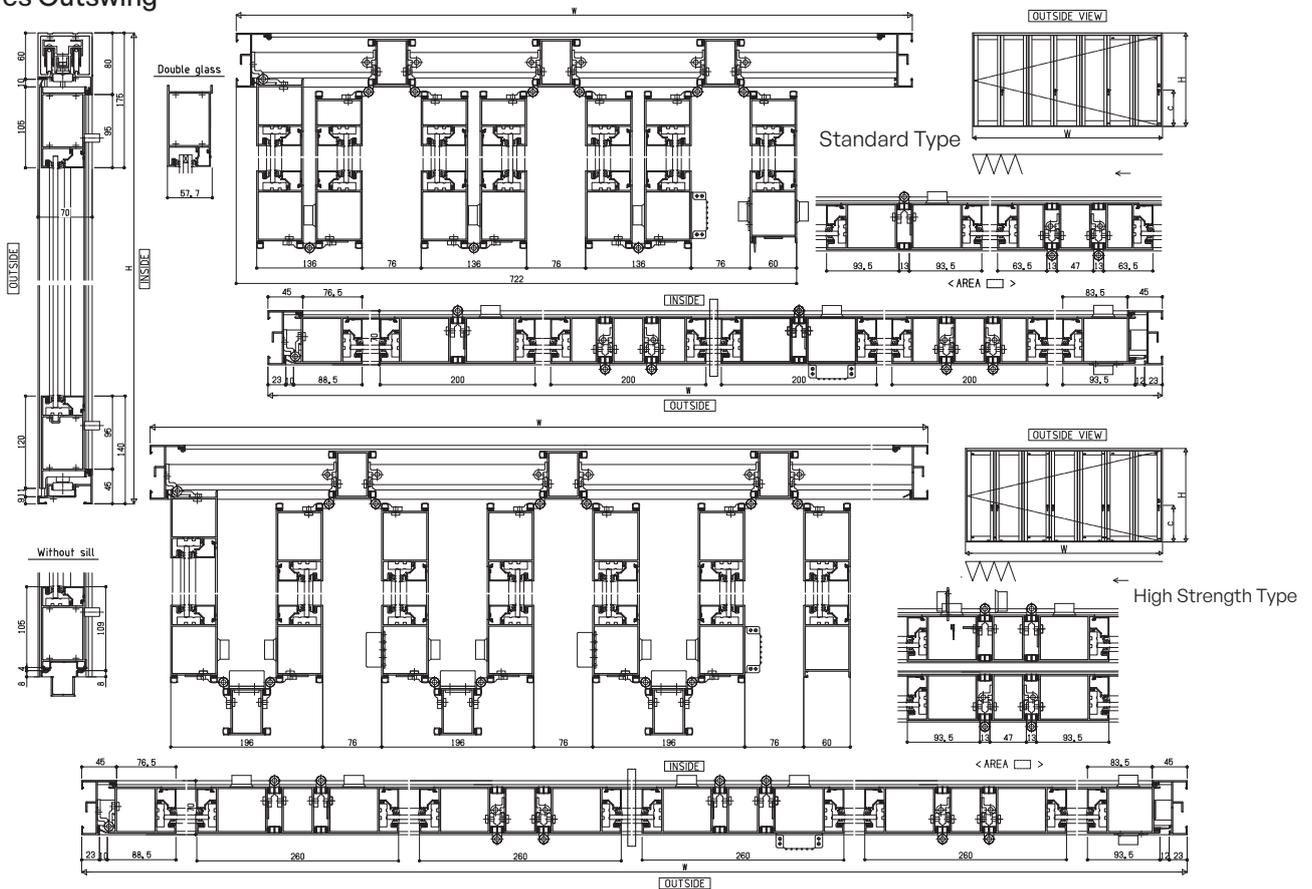
# FOLDING DOOR

## System Drawing & Size Limitation

### 6 Leaves Outswing



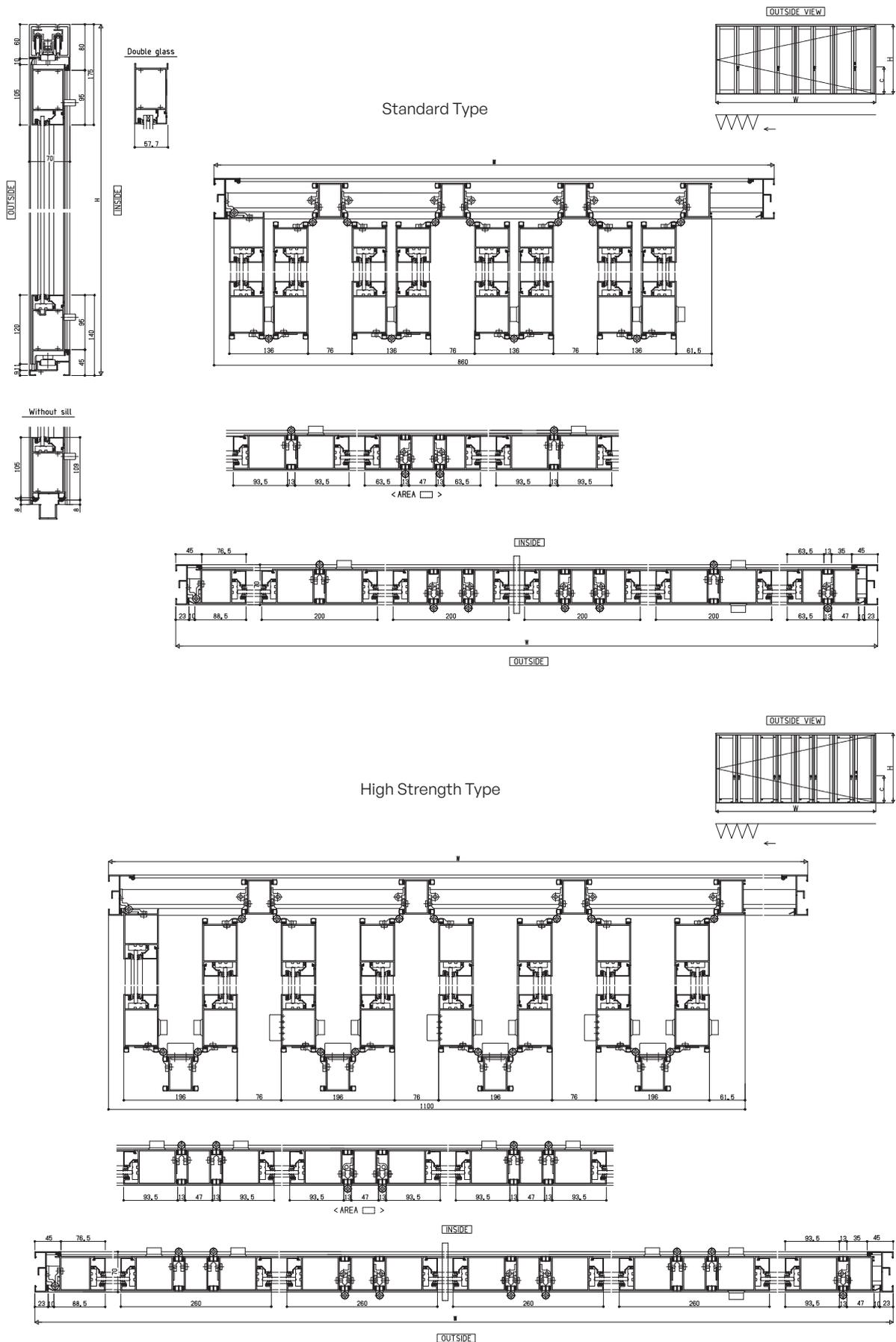
### 7 Leaves Outswing



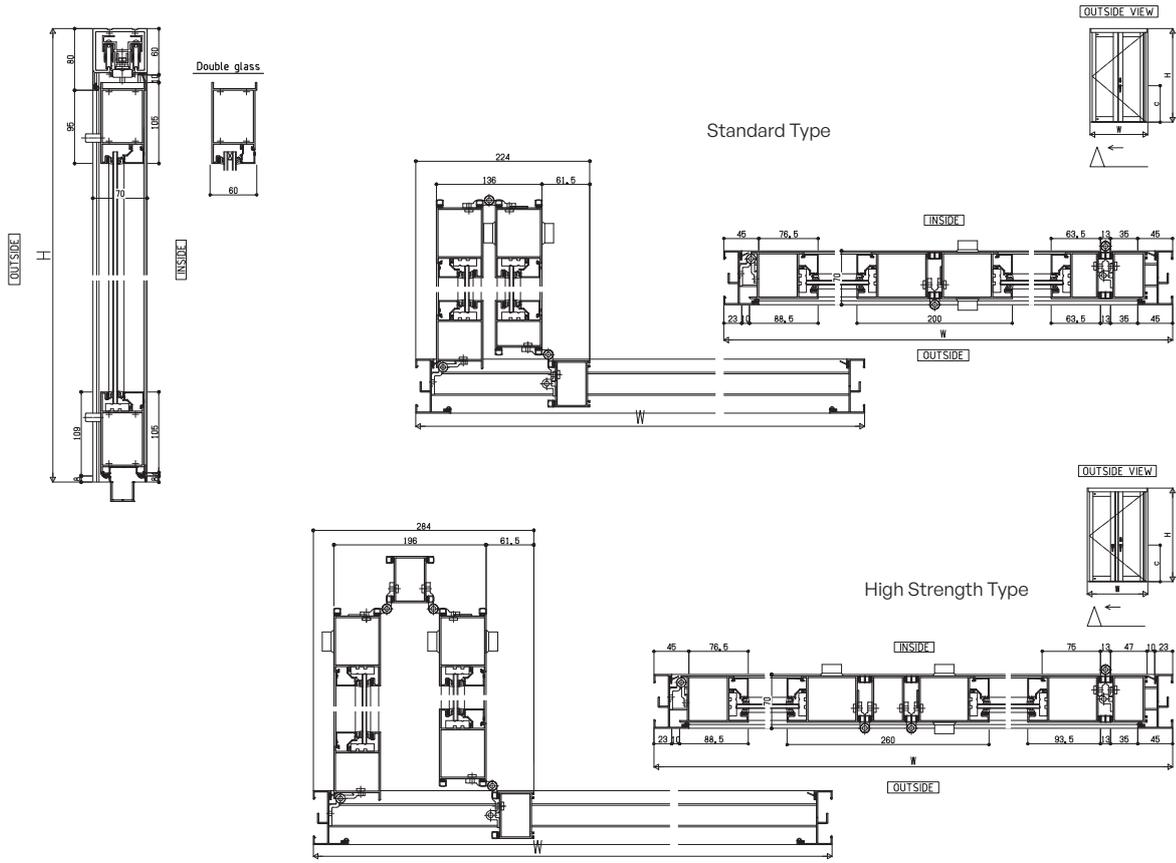
# FOLDING DOOR

## System Drawing & Size Limitation

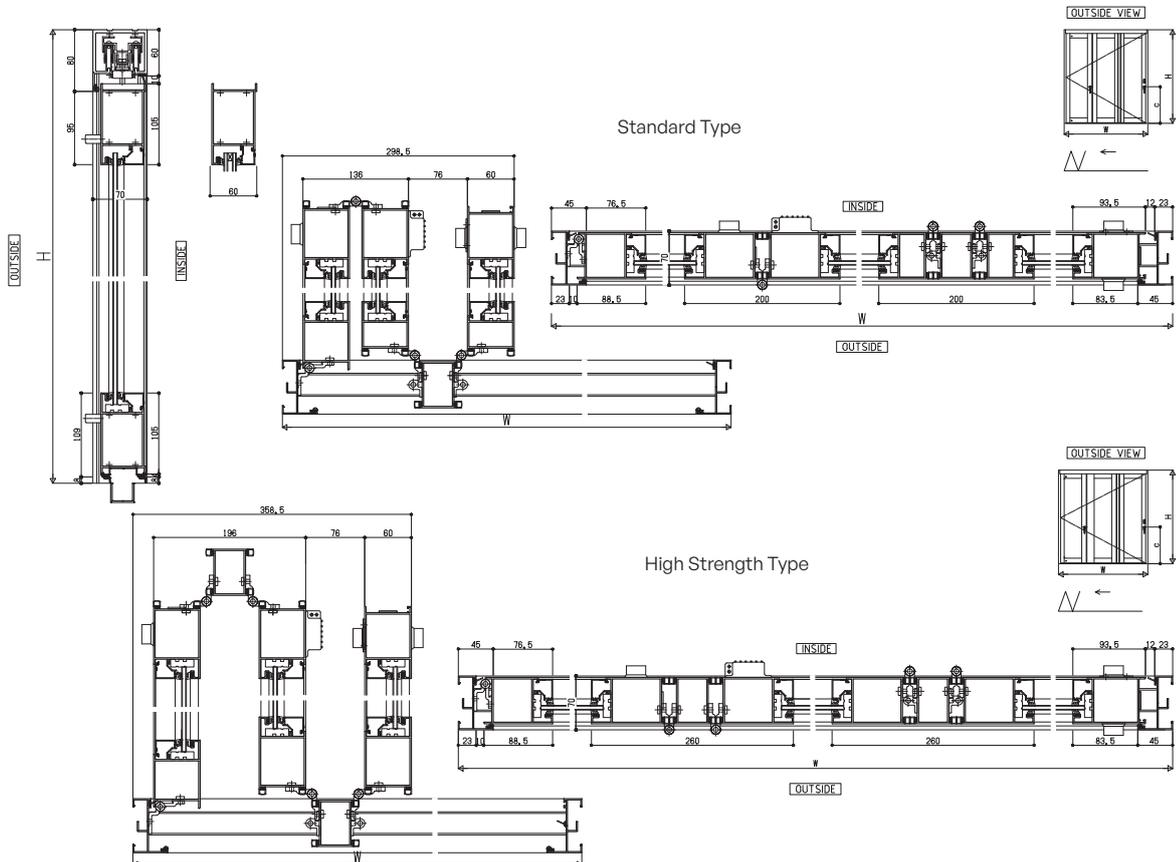
### 8 Leaves Outswing



### 2 Leaves Inswing



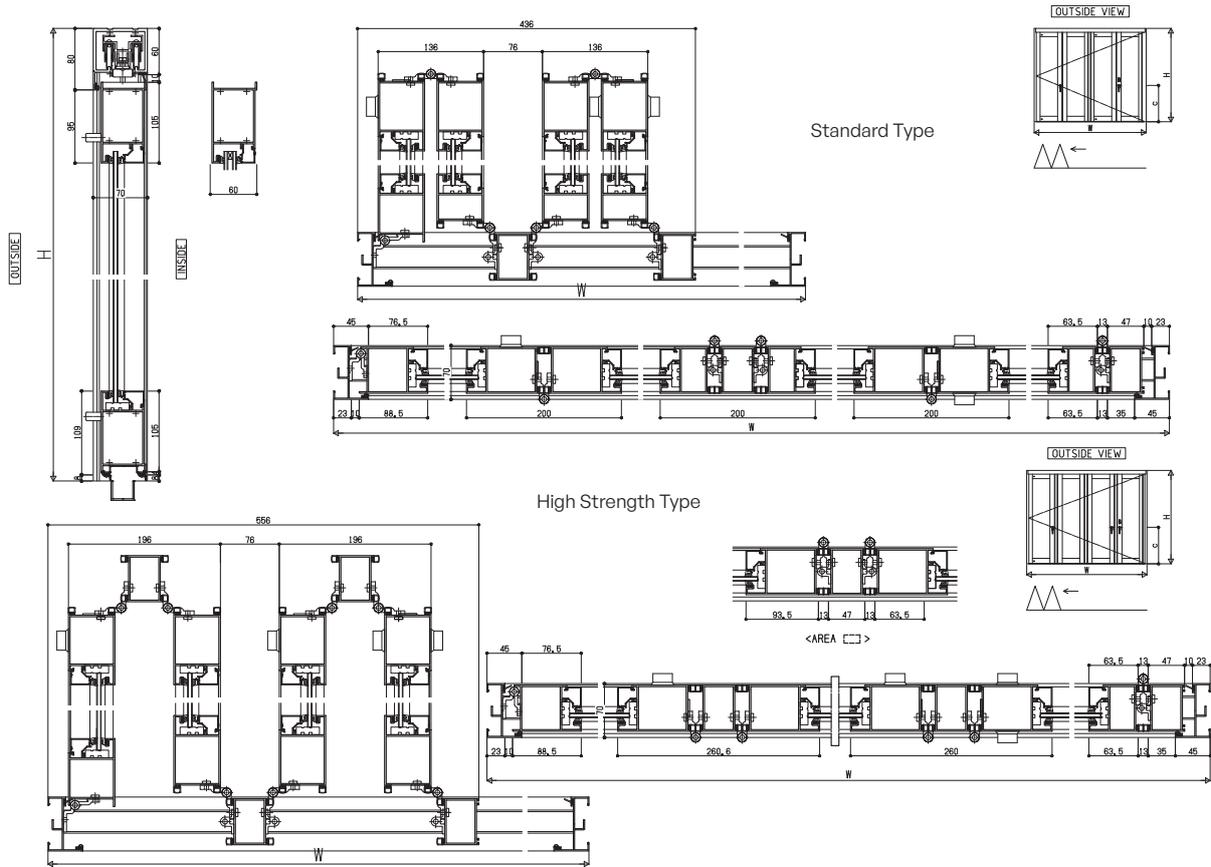
### 3 Leaves Inswing



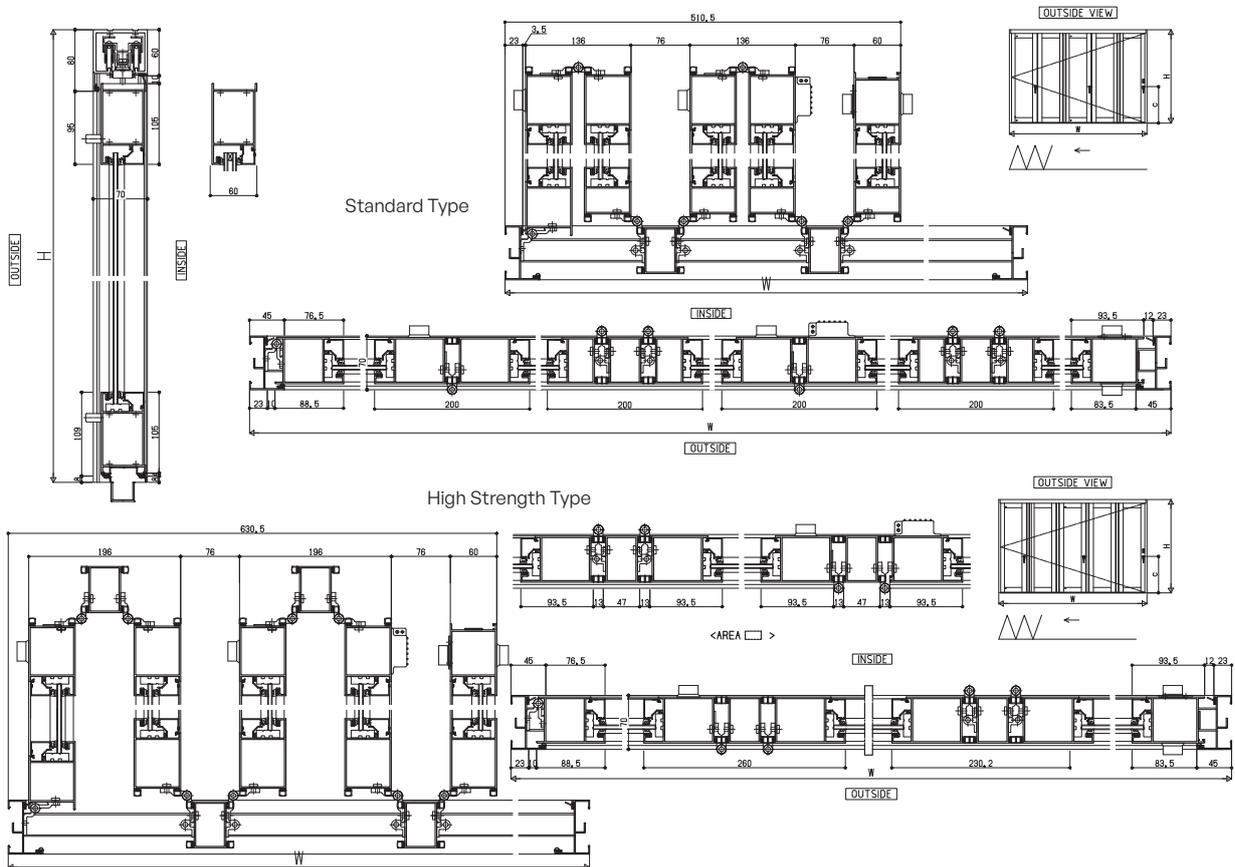
# FOLDING DOOR

## System Drawing & Size Limitation

### 4 Leaves Inswing



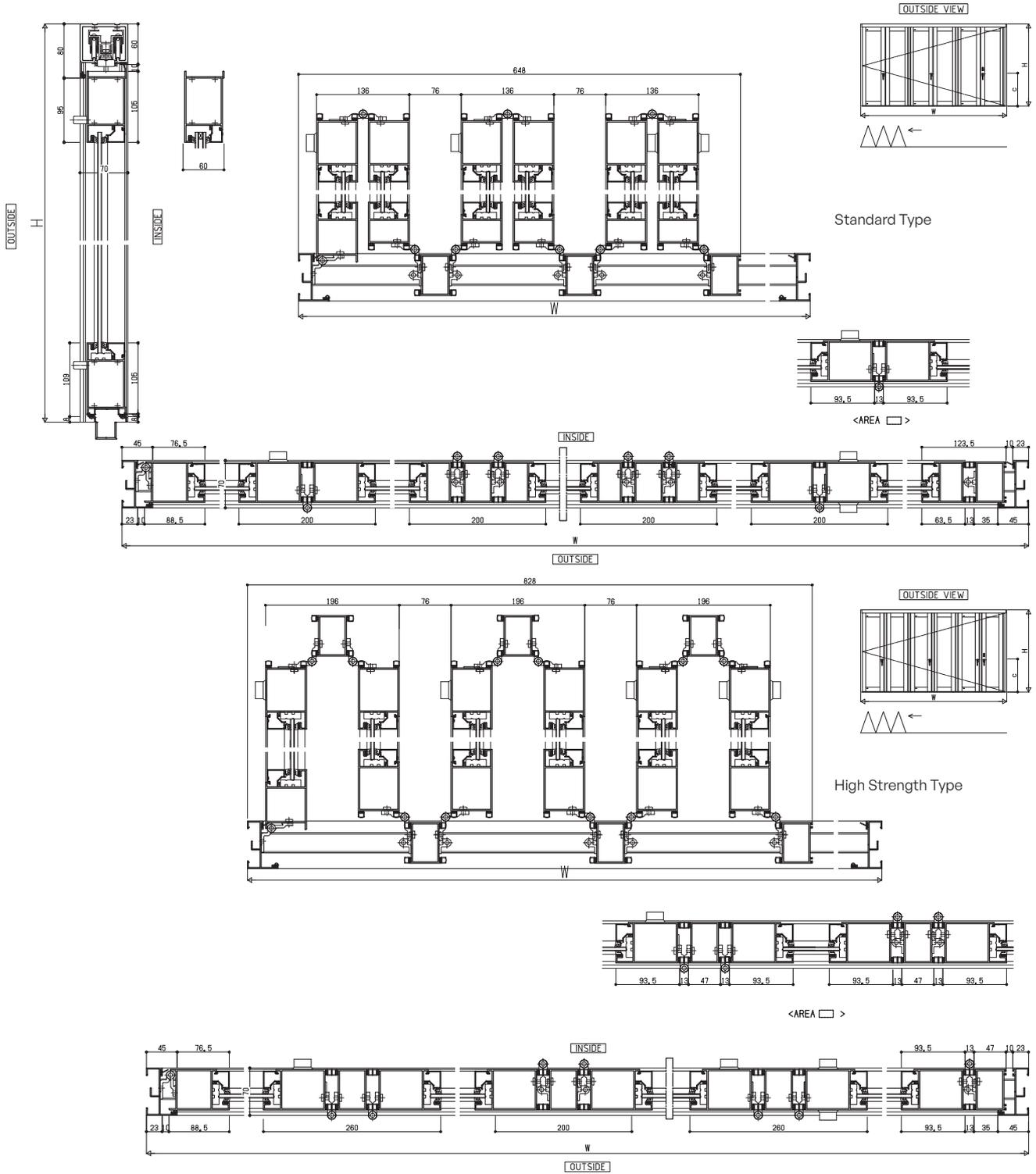
### 5 Leaves Inswing



# FOLDING DOOR

## System Drawing & Size Limitation

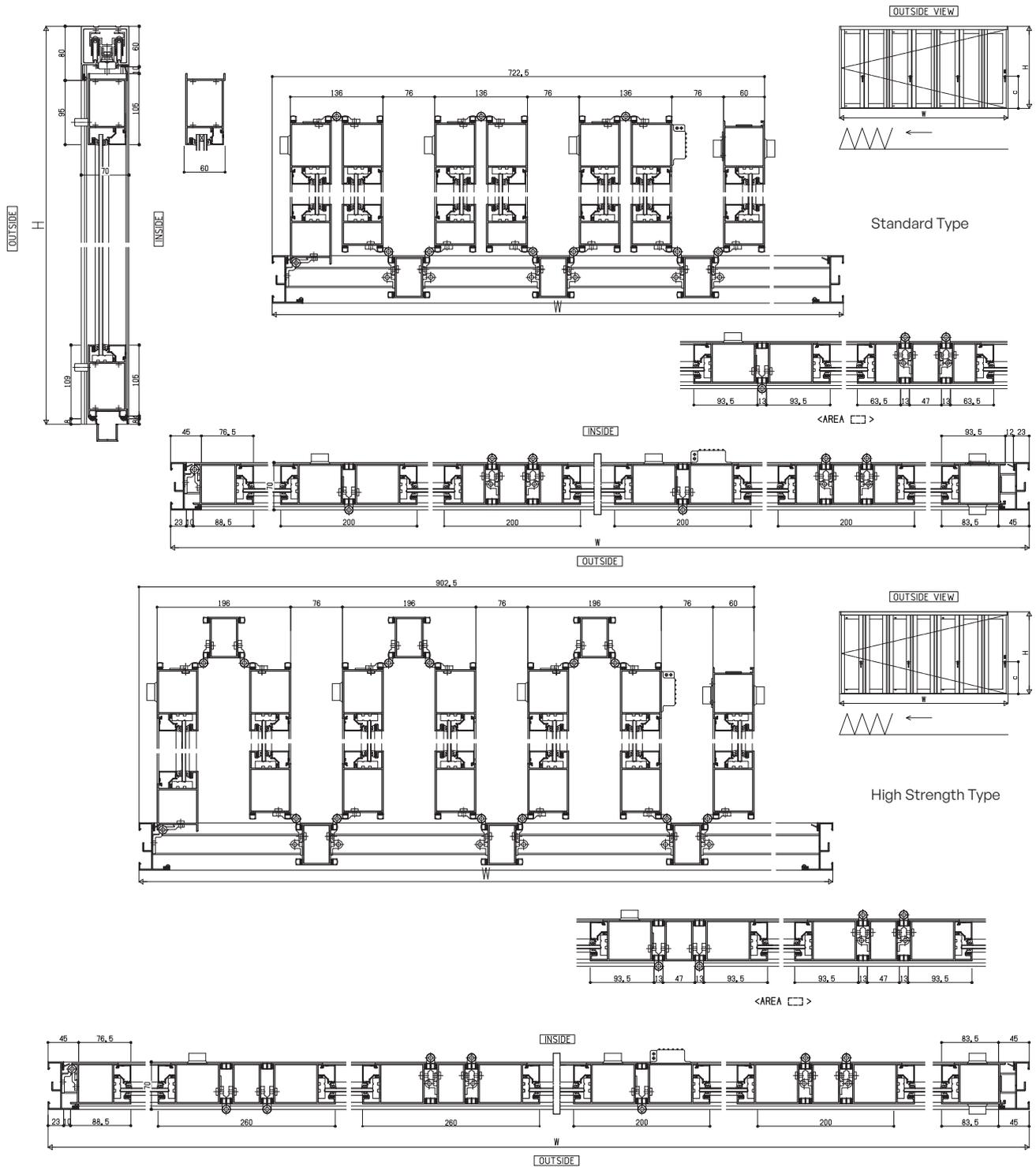
### 6 Leaves Inswing



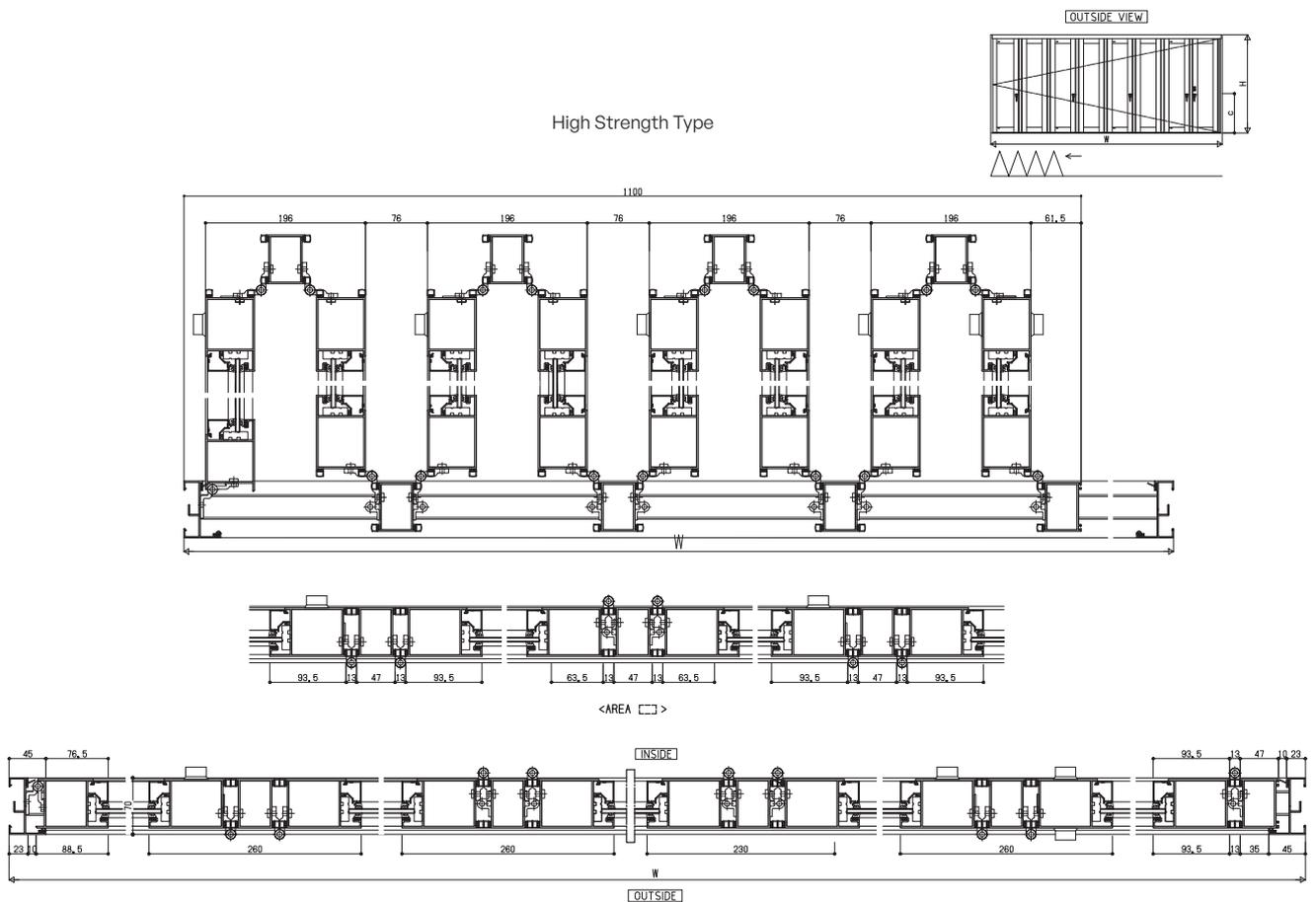
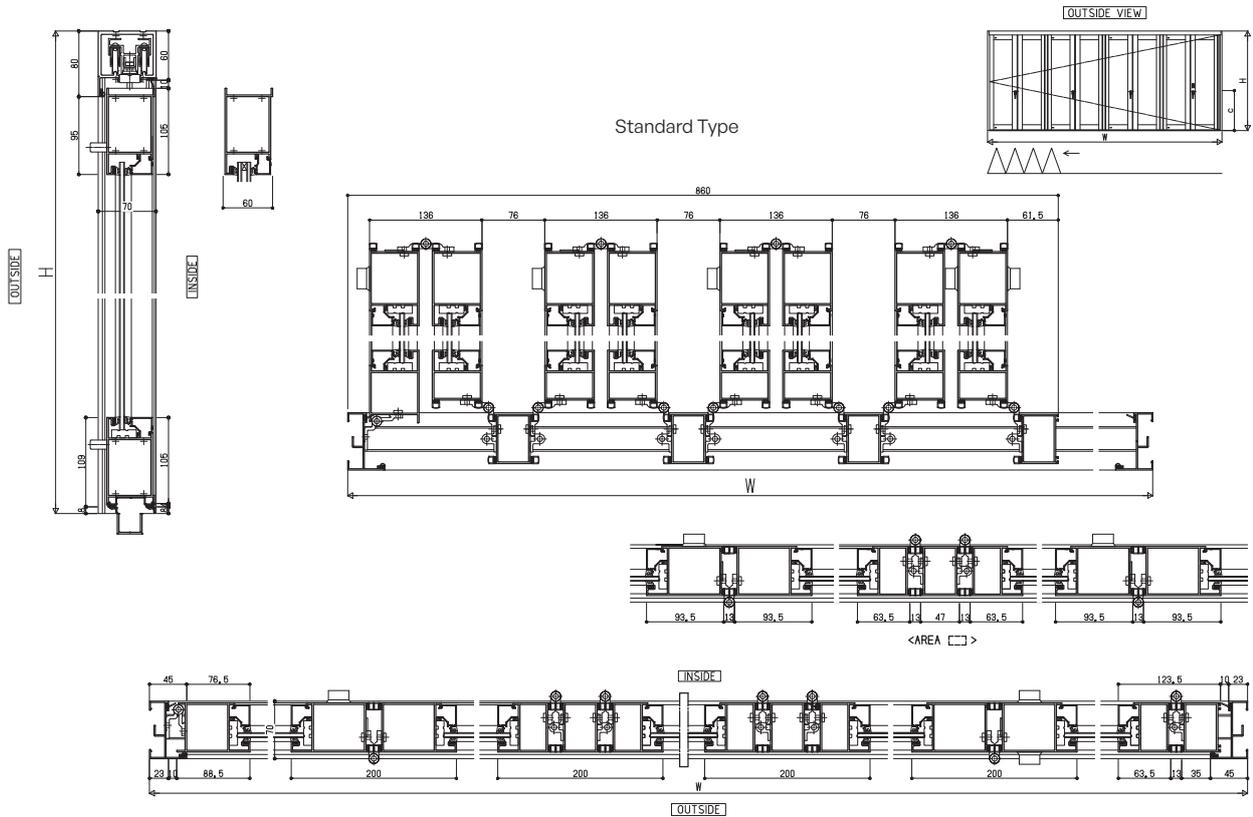
# FOLDING DOOR

## System Drawing & Size Limitation

### 7 Leaves Inswing



### 8 Leaves Inswing





# BOVENLICHT & LOUVER

---

## Bovenlicht

Bovenlicht provides an airy feel and luminous light.

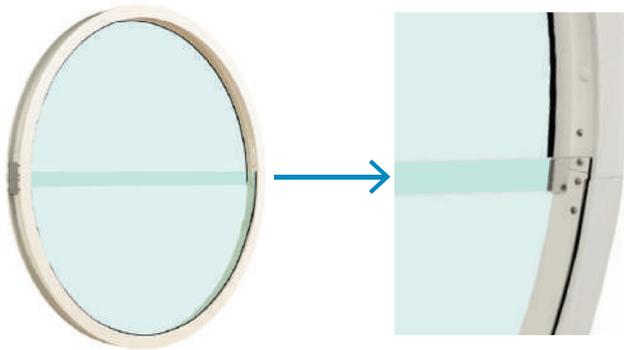


## Louver

Louver brings an additions air circulation and insect screen.



## Round Type

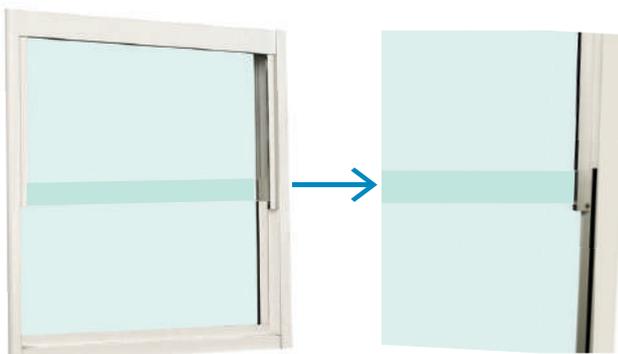


*Inside*



*Inside*

## Square Type



*Inside*



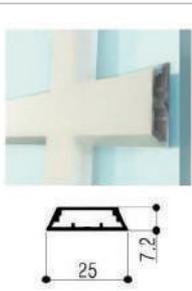
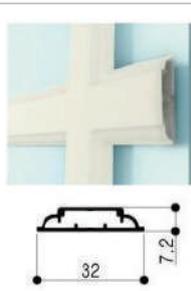
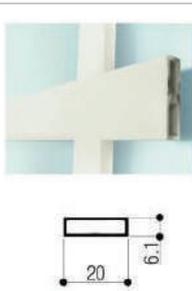
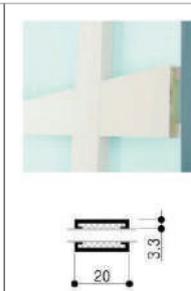
*Outside*



# COMMON OPTION LATTICE



## VARIATION

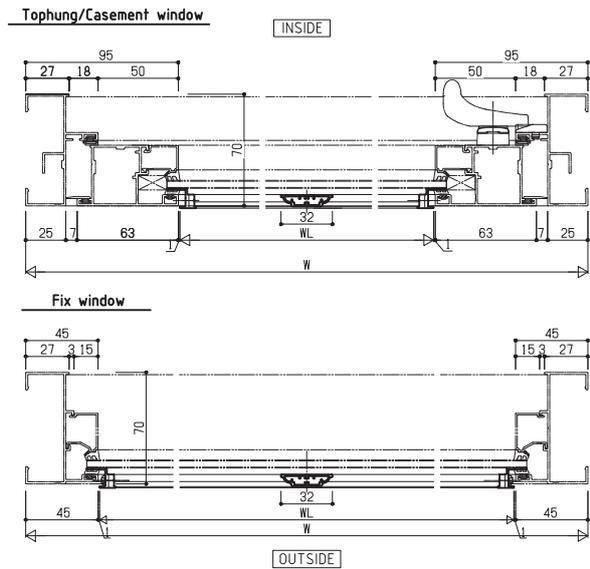
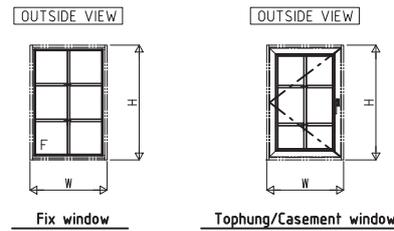
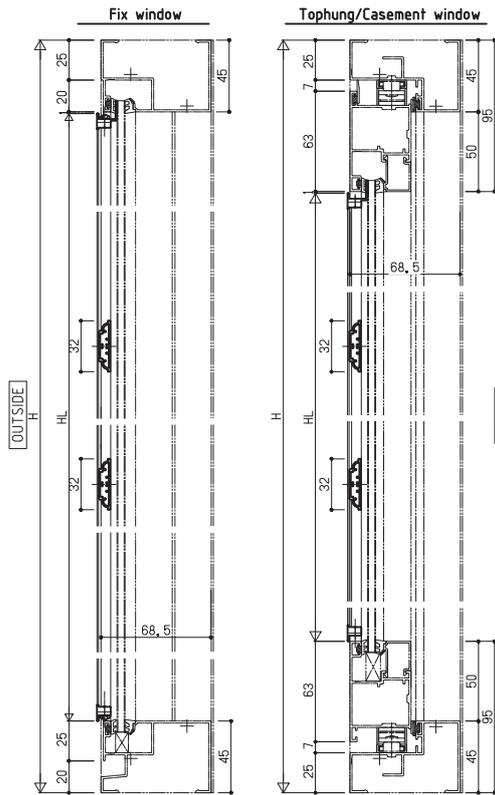
		FRAME TYPE				
						
		Trapezoid	Decorative	Flat	Stick on Glass Flat	Bevelled
Standard Sliding					●	
Wide View Sliding					●	
Top Hung	A,B-Type	●	●	●	●	●
	LS-Type	●	●	●	●	
Casement	A,B-Type	●	●	●	●	○
	LS-Type	●	●	●	●	
Fix		●	●	●	●	
Door		●	●	●	●	
Folding Door		●	●	●	●	

● Available ○ Available, glazing with sealant

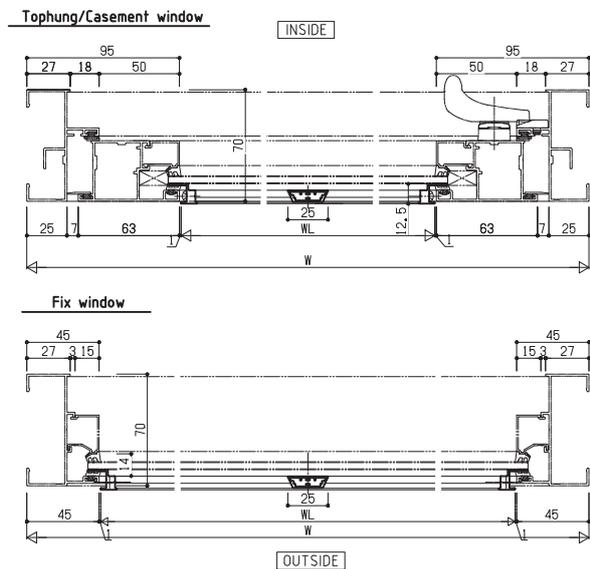
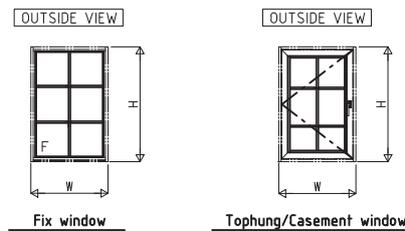
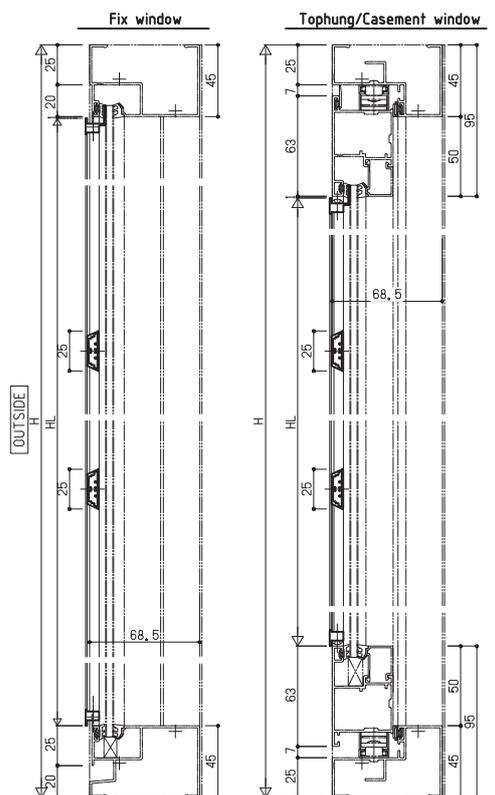
# COMMON OPTION LATTICE

## System Drawing & Size Limitation

### Decora

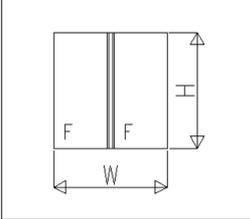
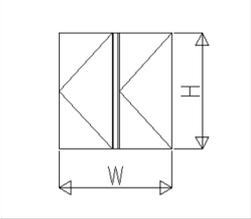
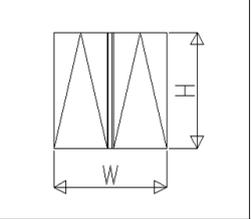
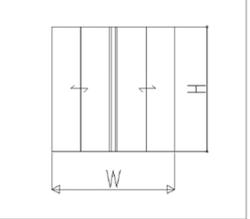


### Trapezoid



# COMMON OPTION MULLION

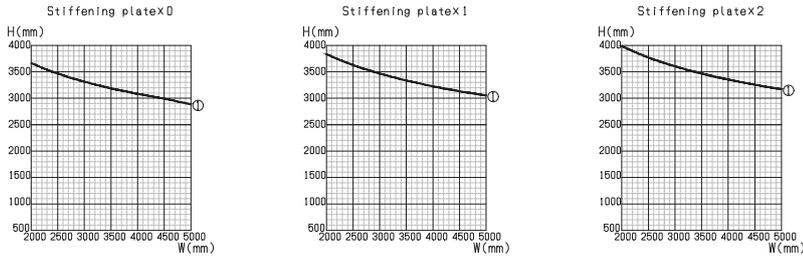
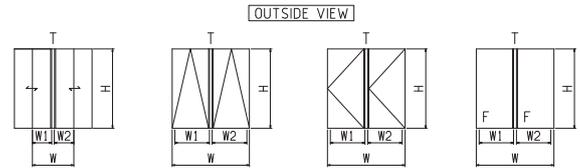
## VARIATION

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

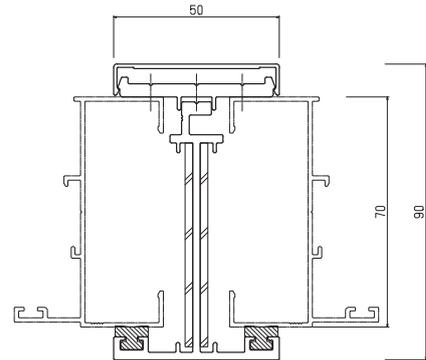
● Available

## 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



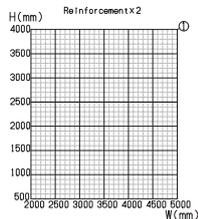
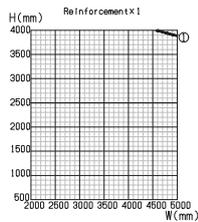
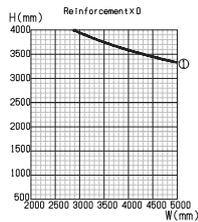
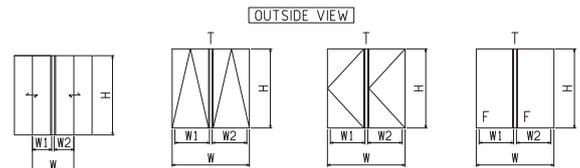
PRESSURE	
1	600Pa



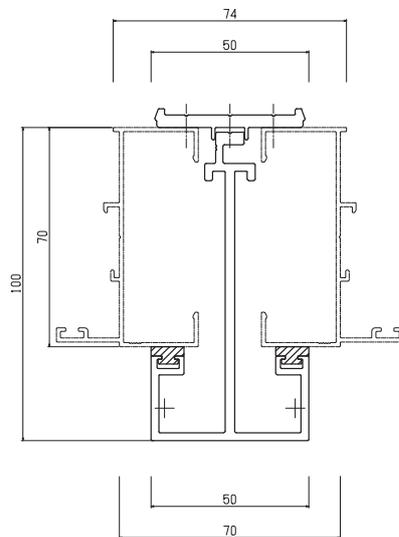
In case of FIX-FIX,  $W1 = W2$

## 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

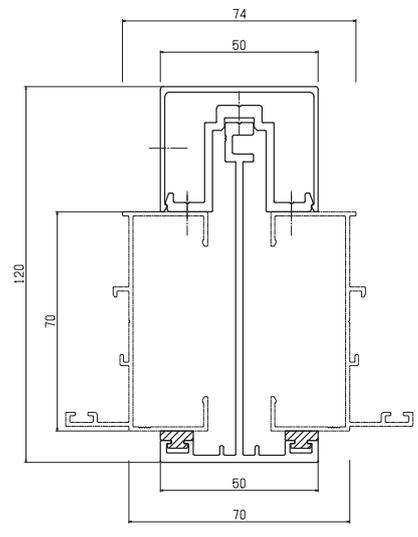
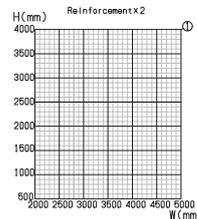
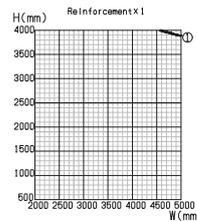
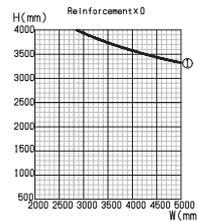


Protruding Outside



PRESSURE	
1	600Pa

Protruding Inside

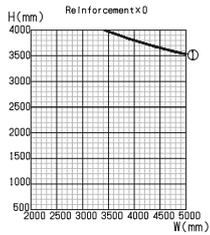
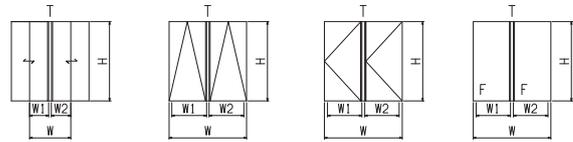


PRESSURE	
1	600Pa

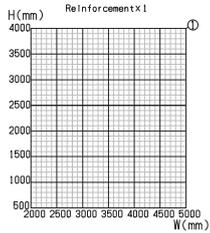
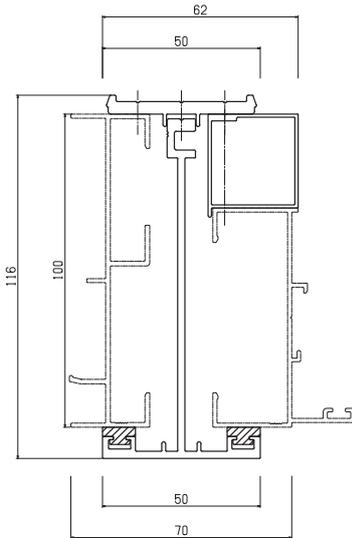
## T-Mullion Combination SL-SL / TH-TH / CA-CA / FIX-FIX

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

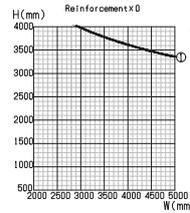
OUTSIDE VIEW



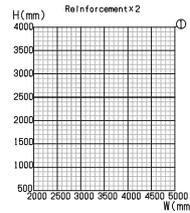
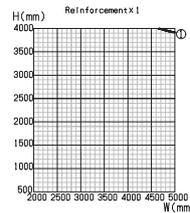
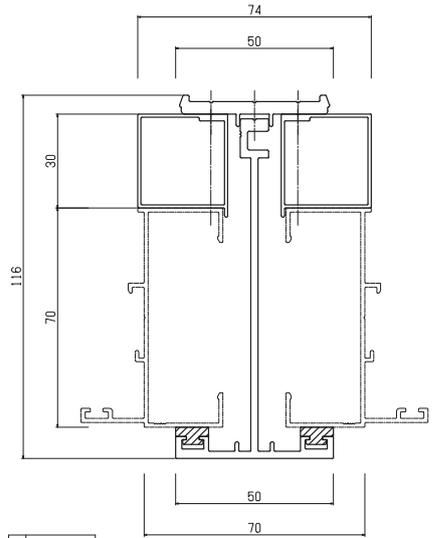
Combination 100 - 70



	PRESSURE
1	600Pa



Combination 70 - 70

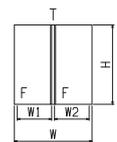


	PRESSURE
1	600Pa

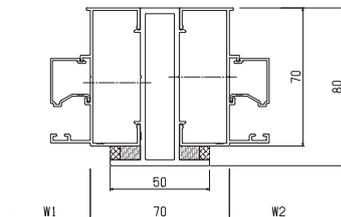
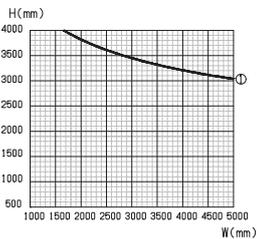
## T-MULLION FIX-FIX

Available for  
 glass groove 14 mm and 24 mm

OUTSIDE VIEW

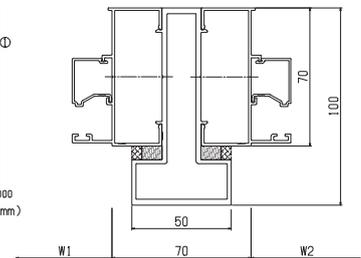
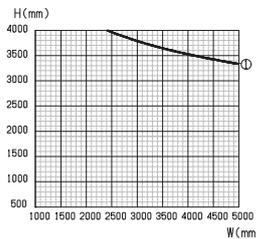


Standard Type



	PRESSURE
1	600Pa

Strong Type



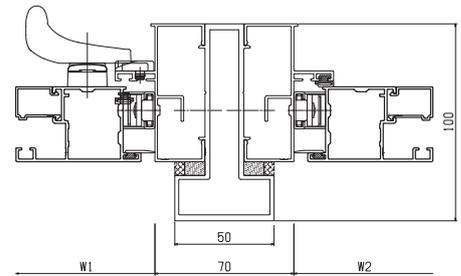
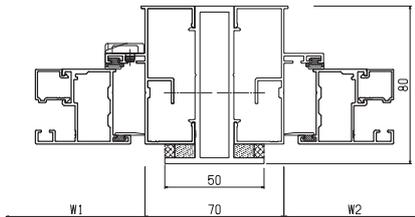
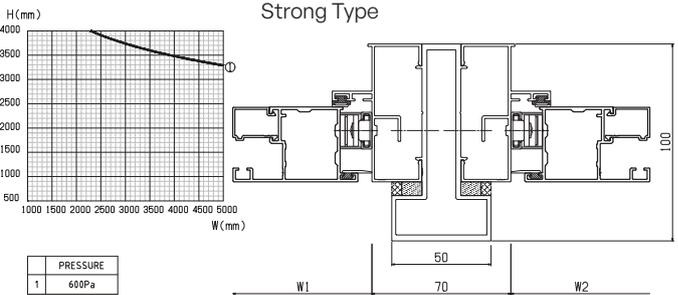
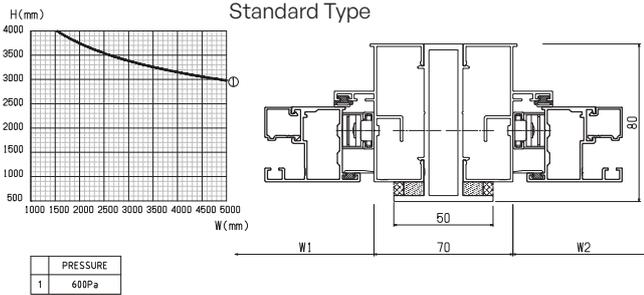
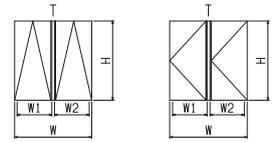
	PRESSURE
1	600Pa

# 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

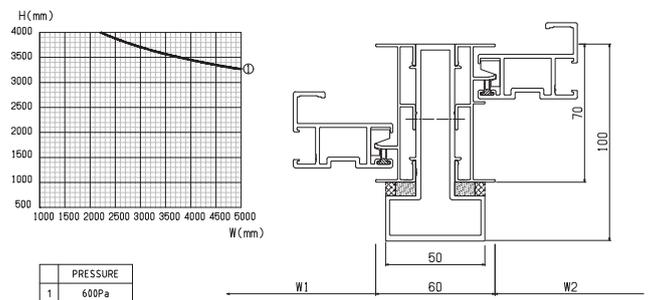
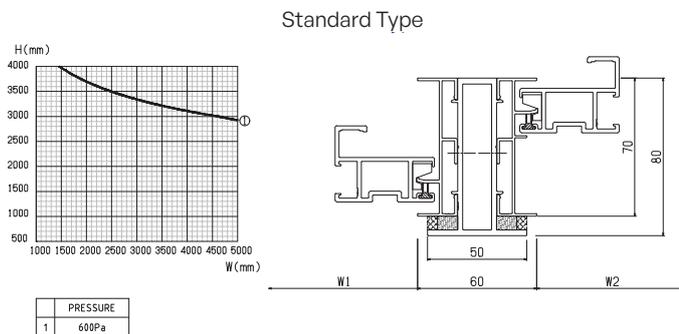
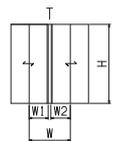
OUTSIDE VIEW



## T - MULLION SL-SL

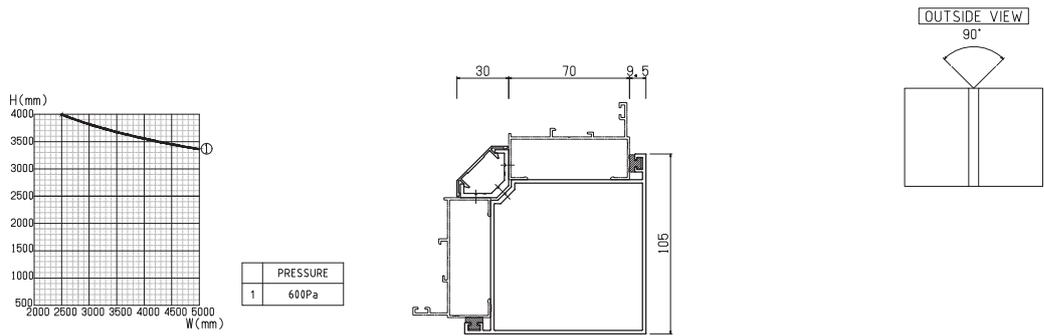
Available for 2 & 4 Leaves, glass groove 12 mm and 14 mm

OUTSIDE VIEW



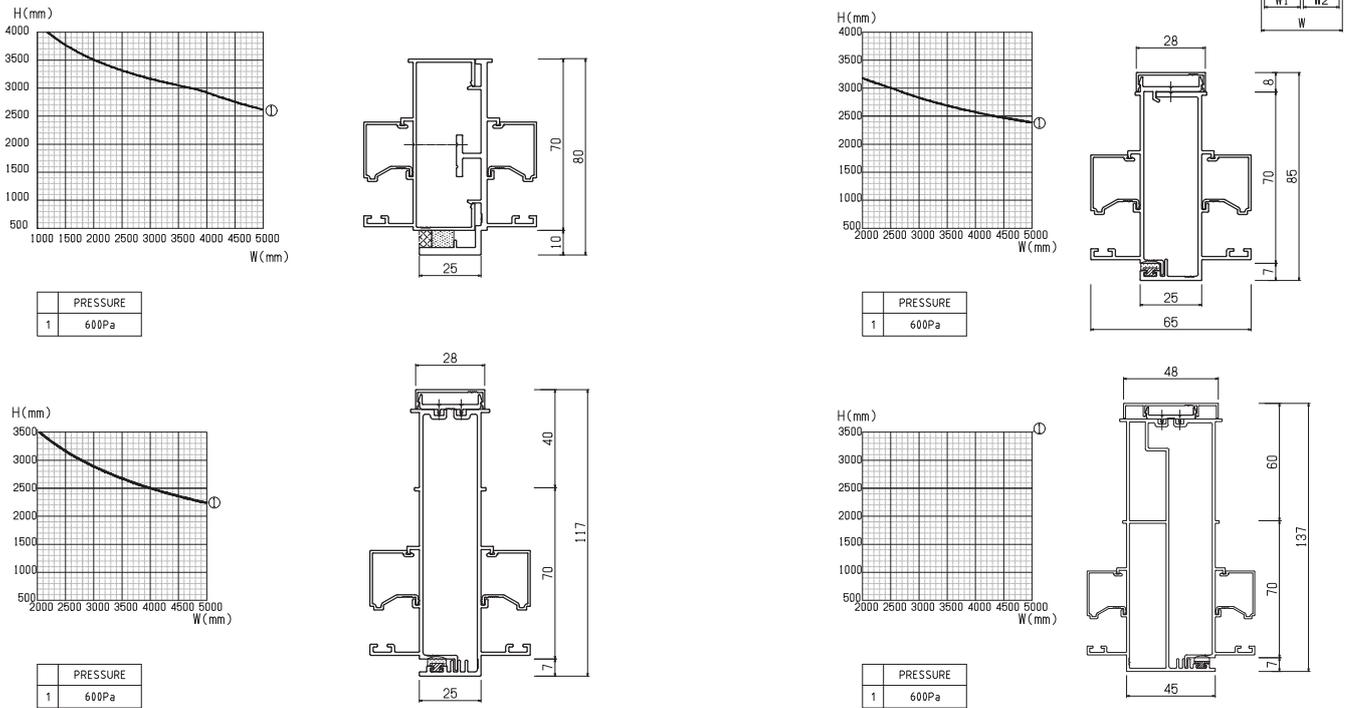
# COMMON OPTION MULLION System Drawing & Size Limitation

## Corner Mullion



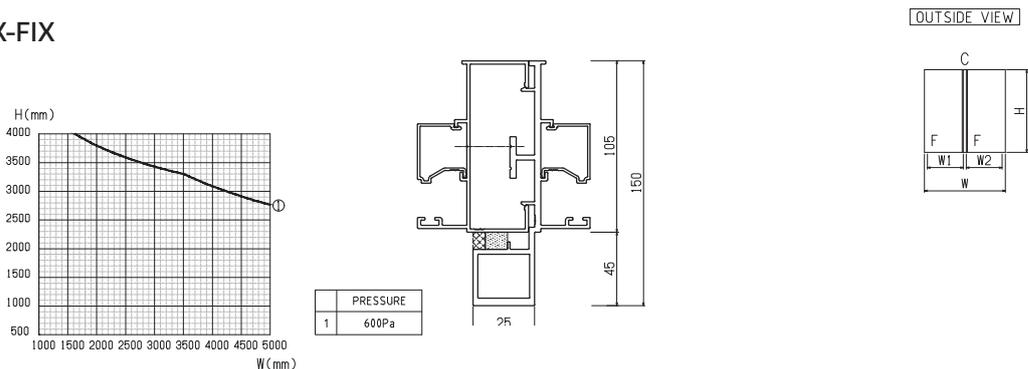
## Coupling Mullion Standard FIX-FIX

Available for glass groove 14 mm and 24 mm



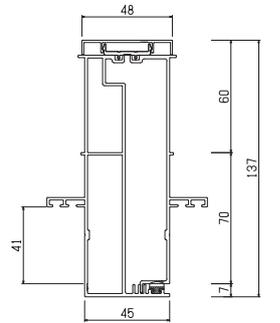
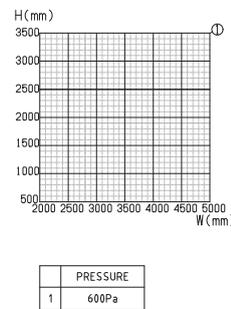
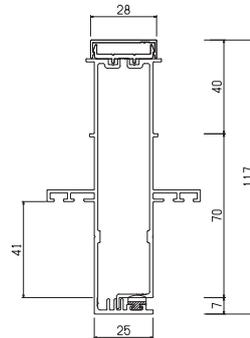
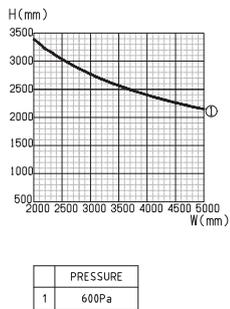
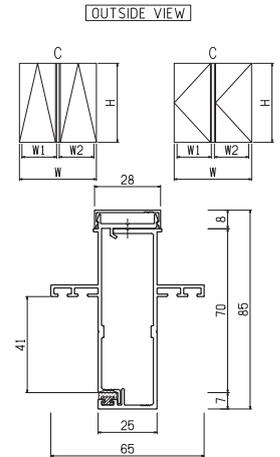
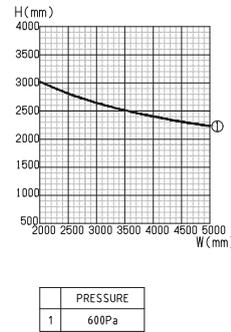
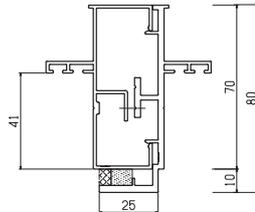
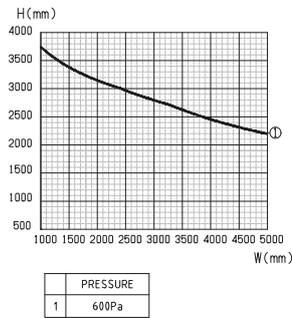
## Coupling Mullion Strong FIX-FIX

Available for glass groove 12 mm and 24 mm



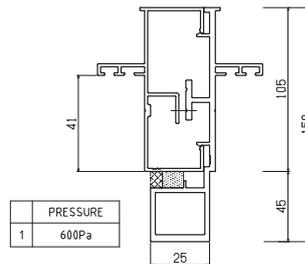
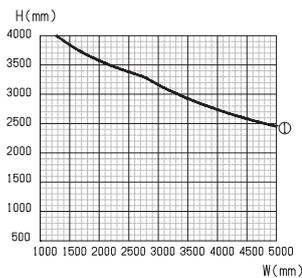
## Coupling Mullion Standard TH-TH, CA-CA

Available for  
glass groove 12 mm and 24 mm

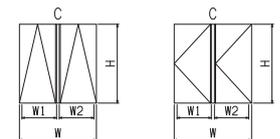


## Coupling Mullion Strong TH-TH, CA-CA

Available for  
glass groove 14 mm and 24 mm



OUTSIDE VIEW



# COMMON OPTION TRANSOM

## VARIATION

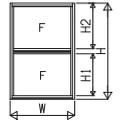
● Samples in this catalog

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

# COMMON OPTION TRANSOM System Drawing & Size Limitation

FIX/FIX

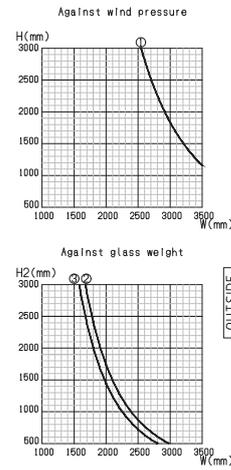
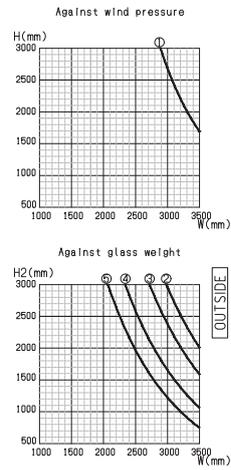
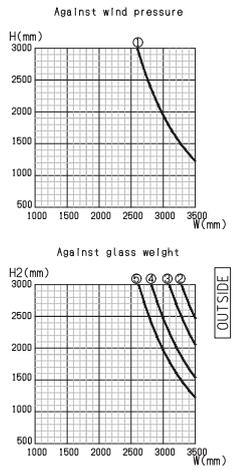
OUTSIDE VIEW



Transom 65  
Glass groove 14mm

Transom 100  
Glass groove 14mm

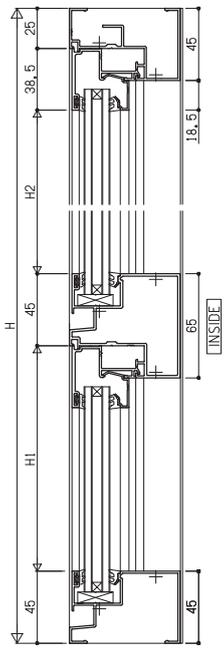
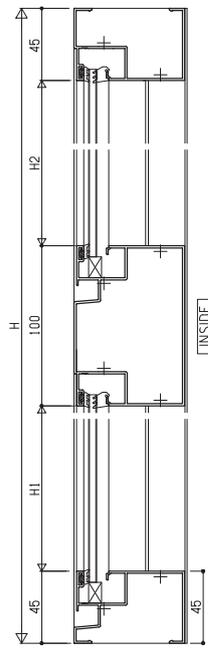
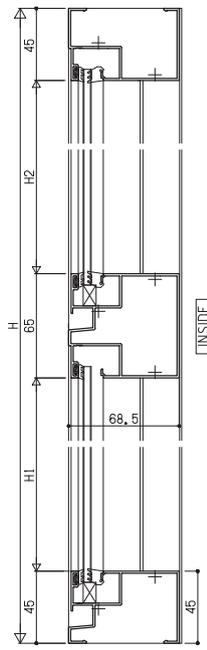
Glass groove 24mm



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

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

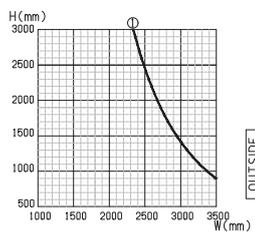
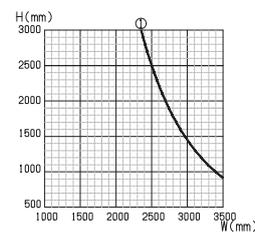
PRESSURE	
1	600Pa
2	5+A6+5mmTHK
3	6+A6+6mmTHK



TH/TH, TH/CA

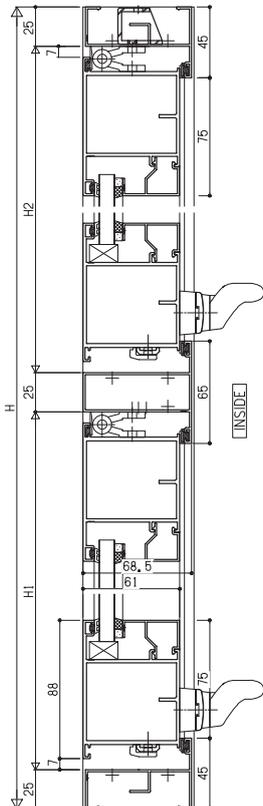
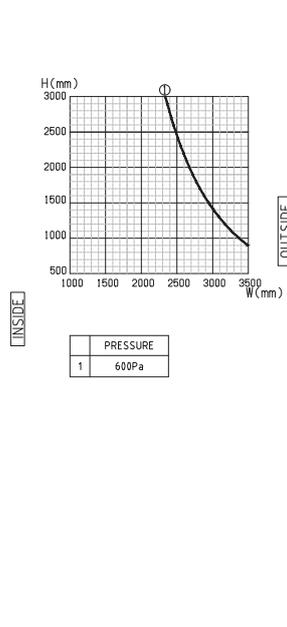
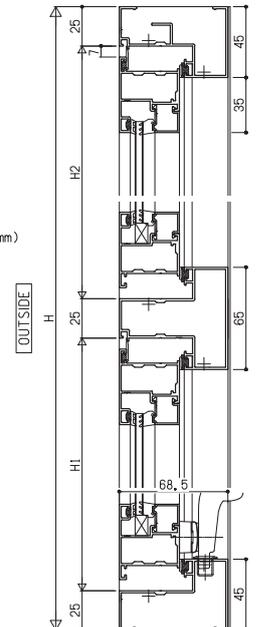
Glass groove 14mm & 24mm

Glass groove 18mm & 26mm

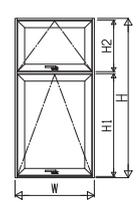


PRESSURE	
1	600Pa

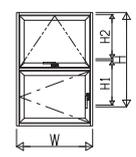
PRESSURE	
1	600Pa



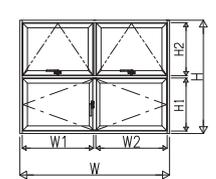
OUTSIDE VIEW



OUTSIDE VIEW



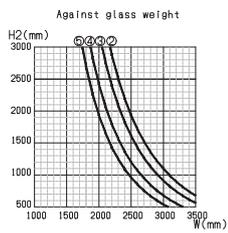
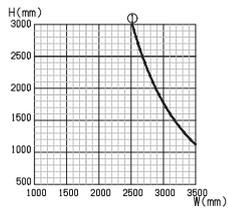
OUTSIDE VIEW



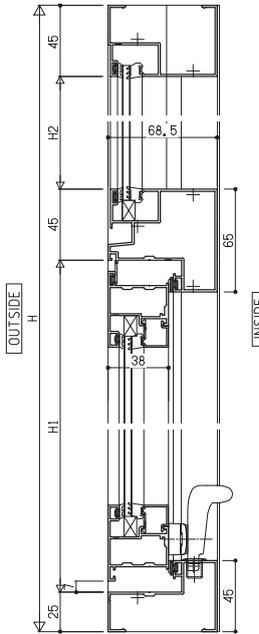
# COMMON OPTION TRANSOM System Drawing & Size Limitation

FIX/TH, FIX/CA

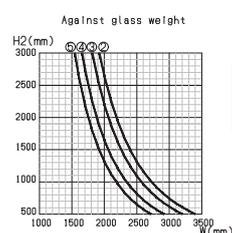
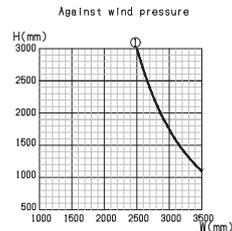
F: Glass groove 14mm  
TH/CA: Glass groove 14mm & 24mm



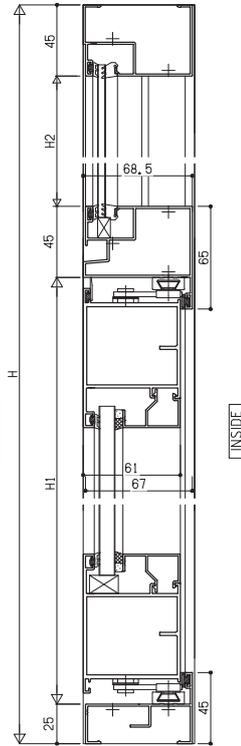
	PRESSURE
1	600Pa
2	5mmTHK
3	6mmTHK
4	8mmTHK
5	10mmTHK



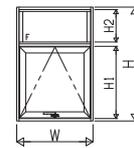
F: Glass groove 14mm  
TH/CA: Glass groove 18mm & 26mm



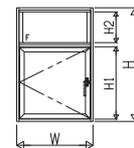
	PRESSURE
1	600Pa
2	5mmTHK
3	6mmTHK
4	8mmTHK
5	10mmTHK



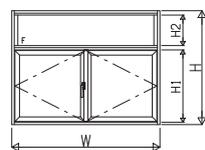
OUTSIDE VIEW



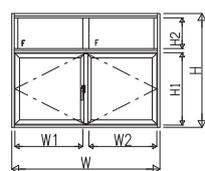
OUTSIDE VIEW



OUTSIDE VIEW

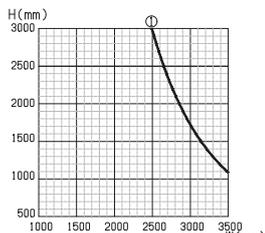


OUTSIDE VIEW

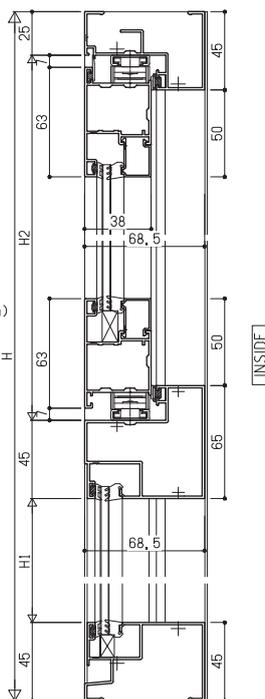


TH/FIX, CA/FIX

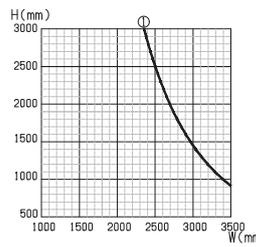
TH/CA: Glass groove 14mm & 24mm  
F: Glass groove 14mm



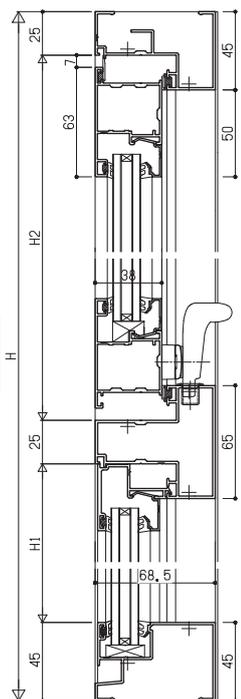
	PRESSURE
1	600Pa



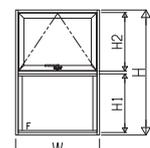
TH/CA: Glass groove 14mm & 24mm  
F: Glass groove 24mm



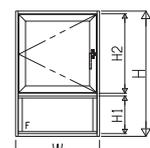
	PRESSURE
1	600Pa



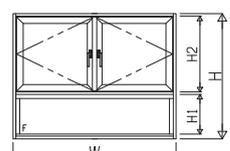
OUTSIDE VIEW



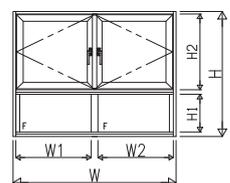
OUTSIDE VIEW



OUTSIDE VIEW

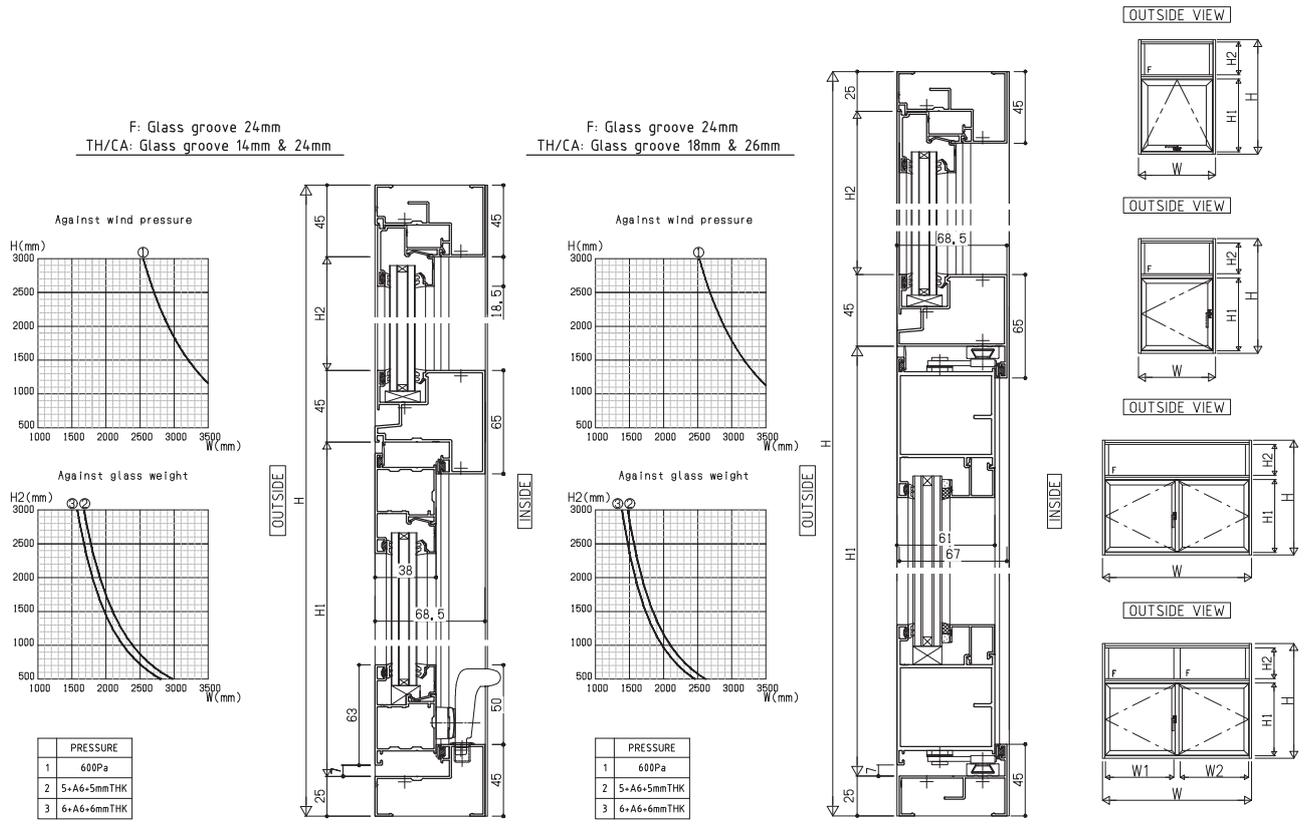


OUTSIDE VIEW

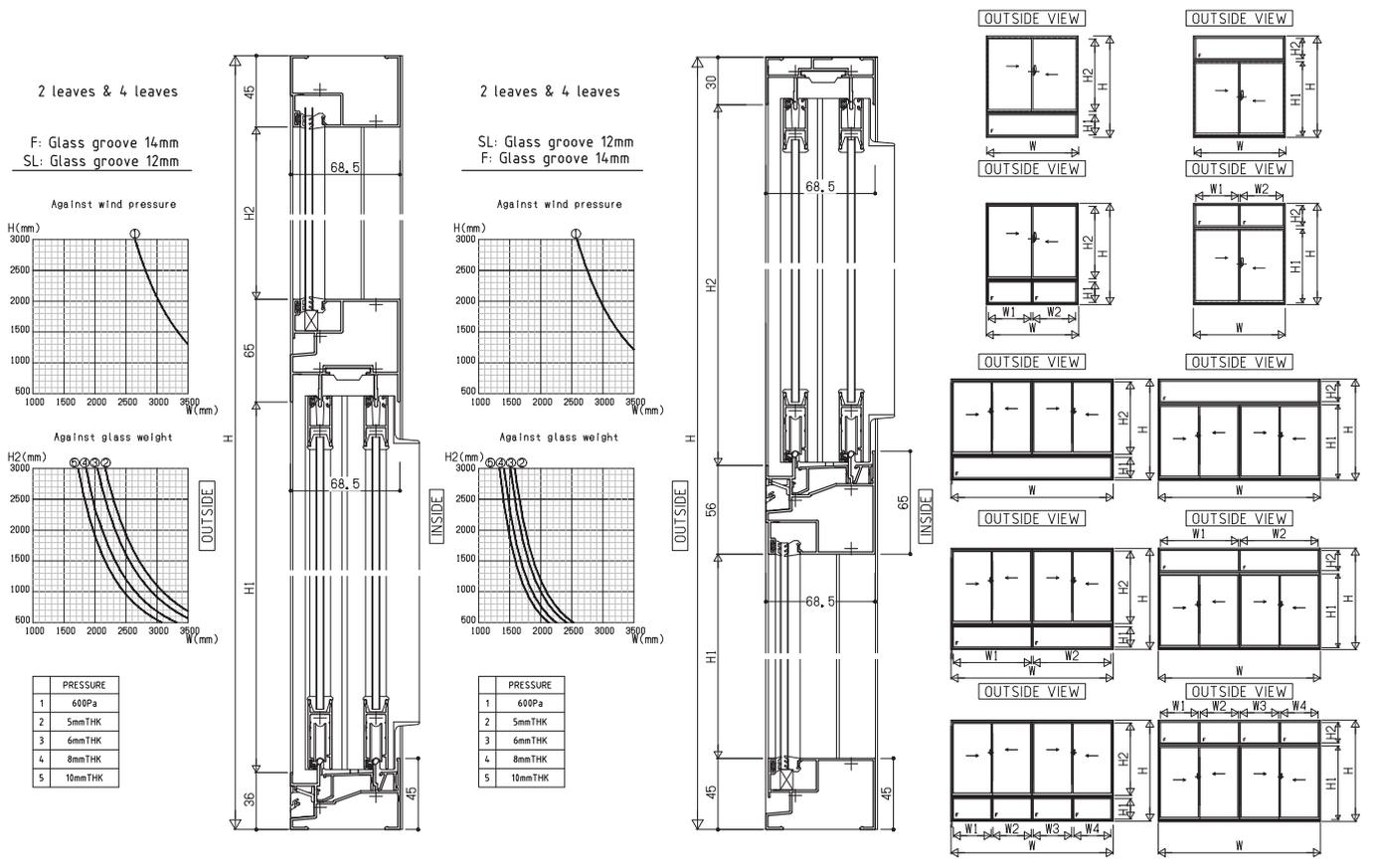


# COMMON OPTION TRANSOM System Drawing & Size Limitation

## Transom FIX/TH, FIX/CA



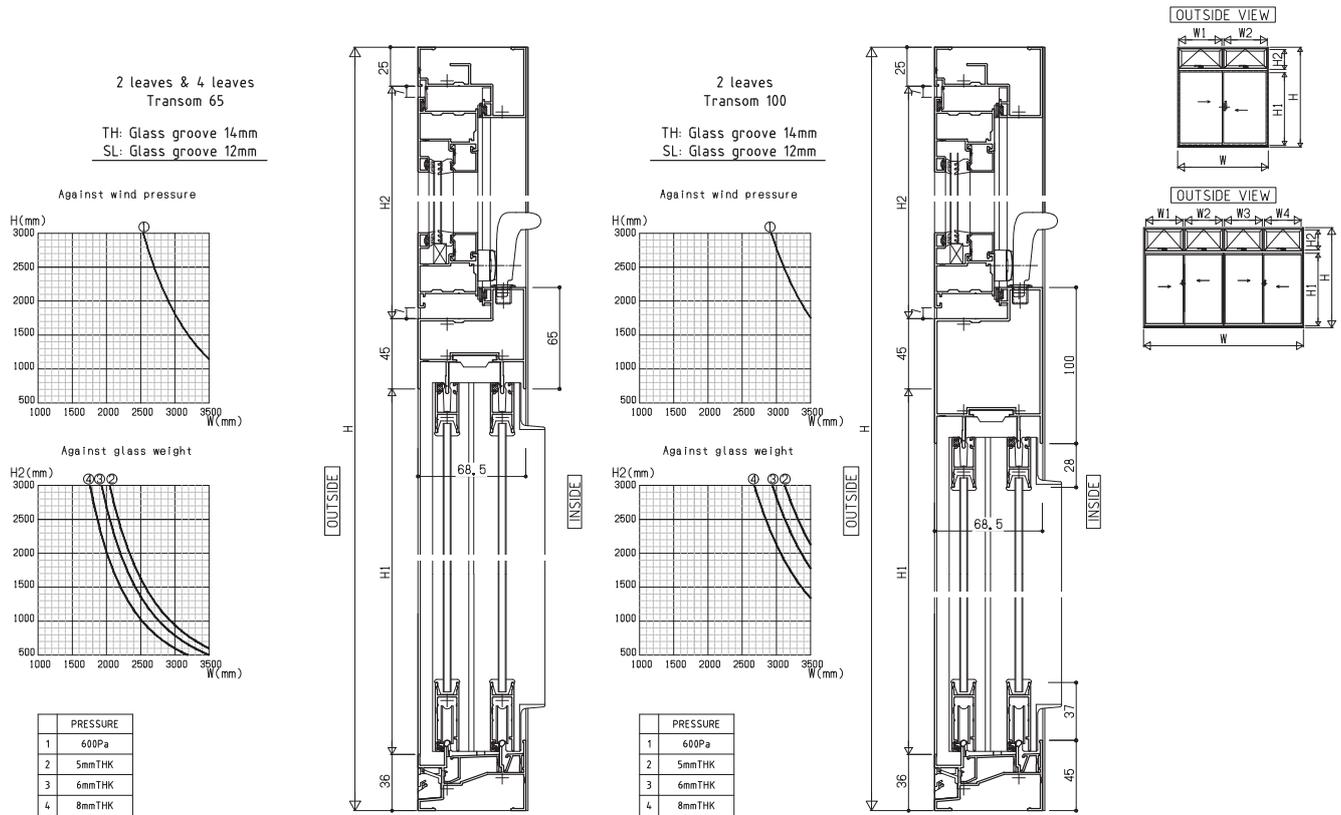
## Transom 65 SL/FIX



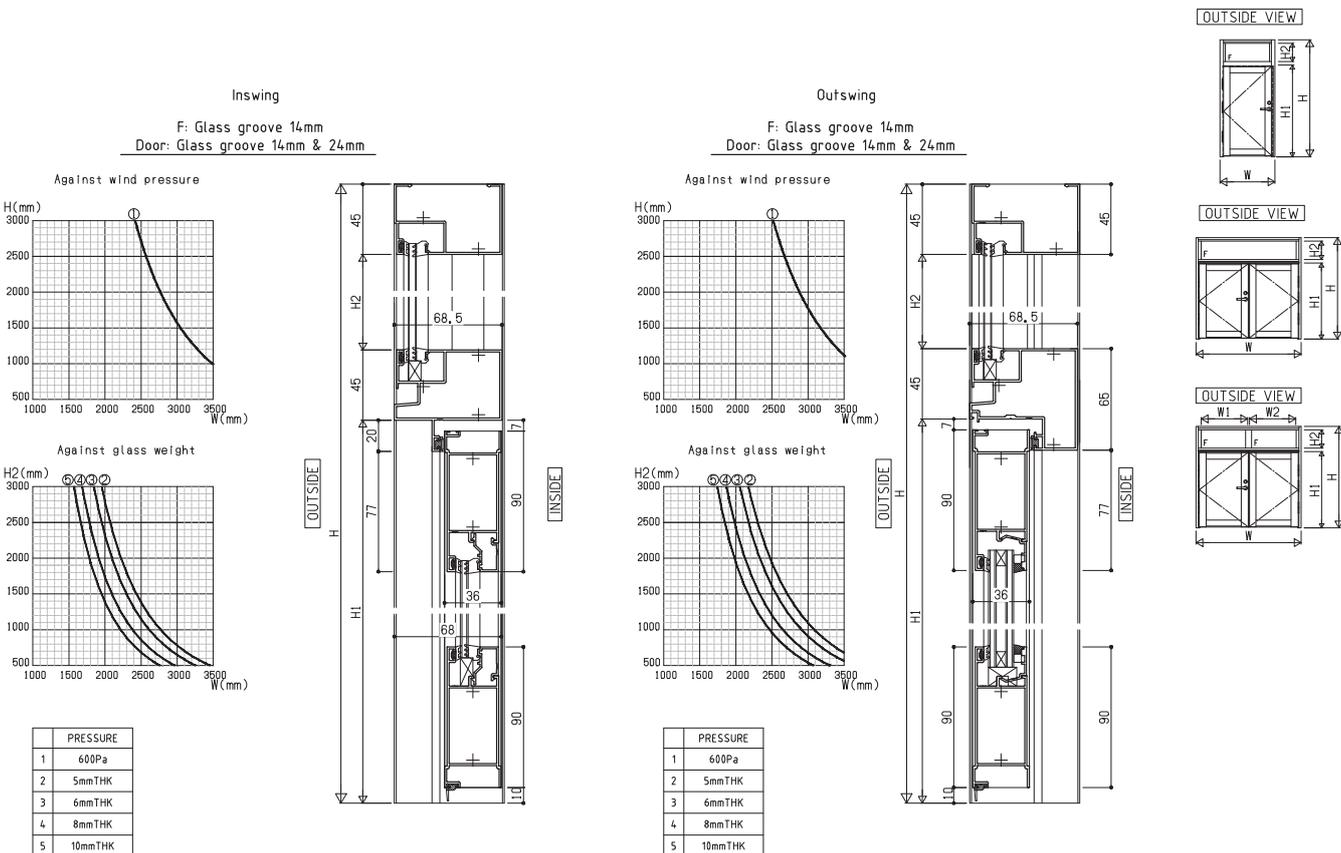


# COMMON OPTION TRANSOM System Drawing & Size Limitation

TH/SL

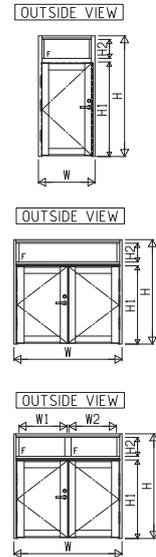
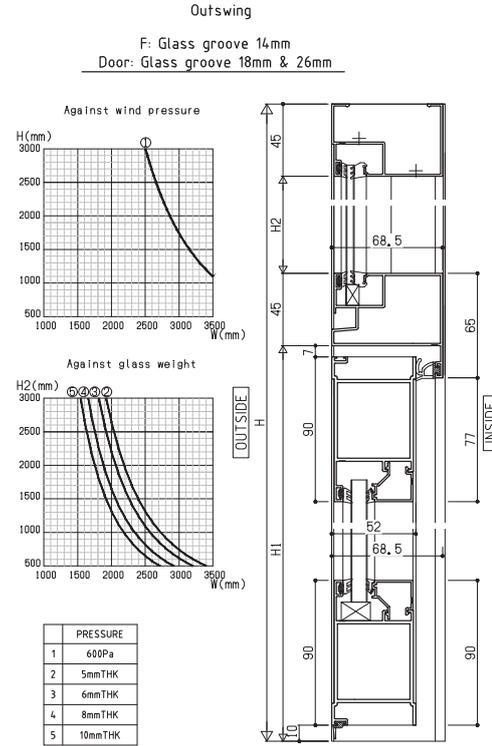
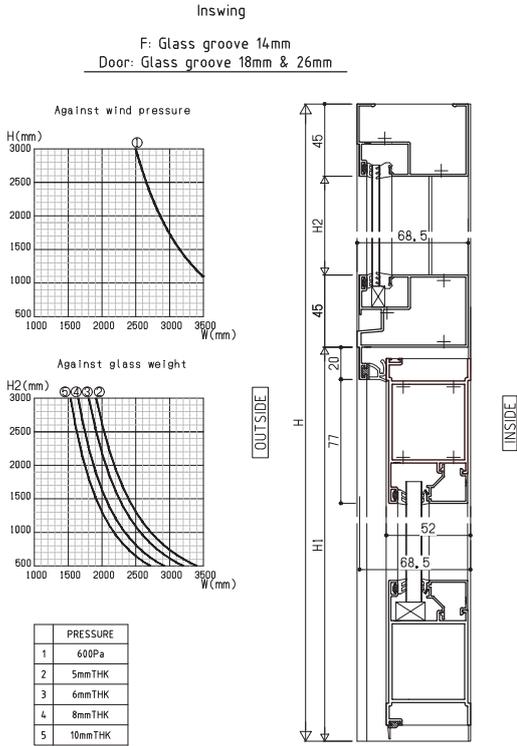


FIX/DOOR DT = 36

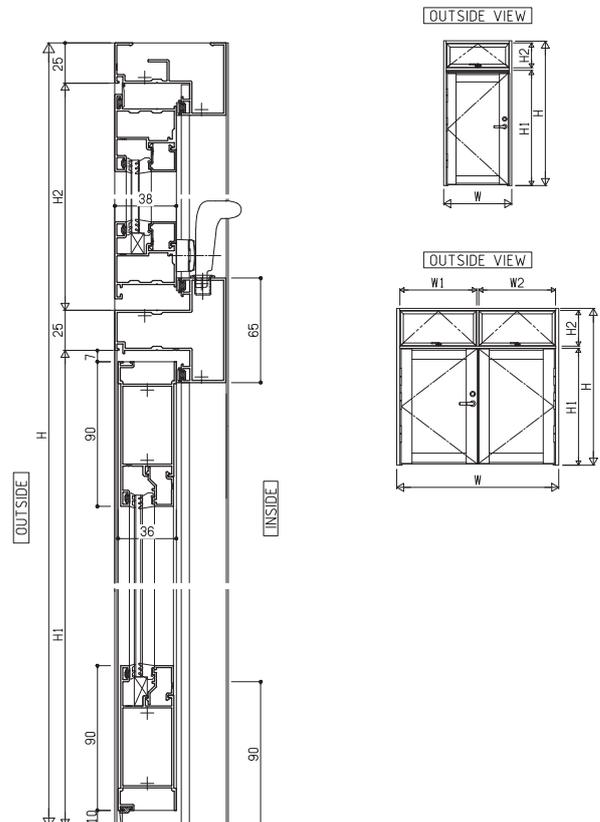
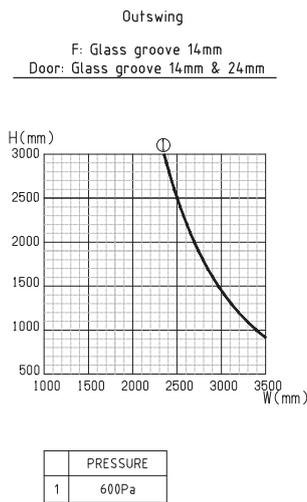


# COMMON OPTION TRANSOM System Drawing & Size Limitation

FIX/DOOR DT = 52



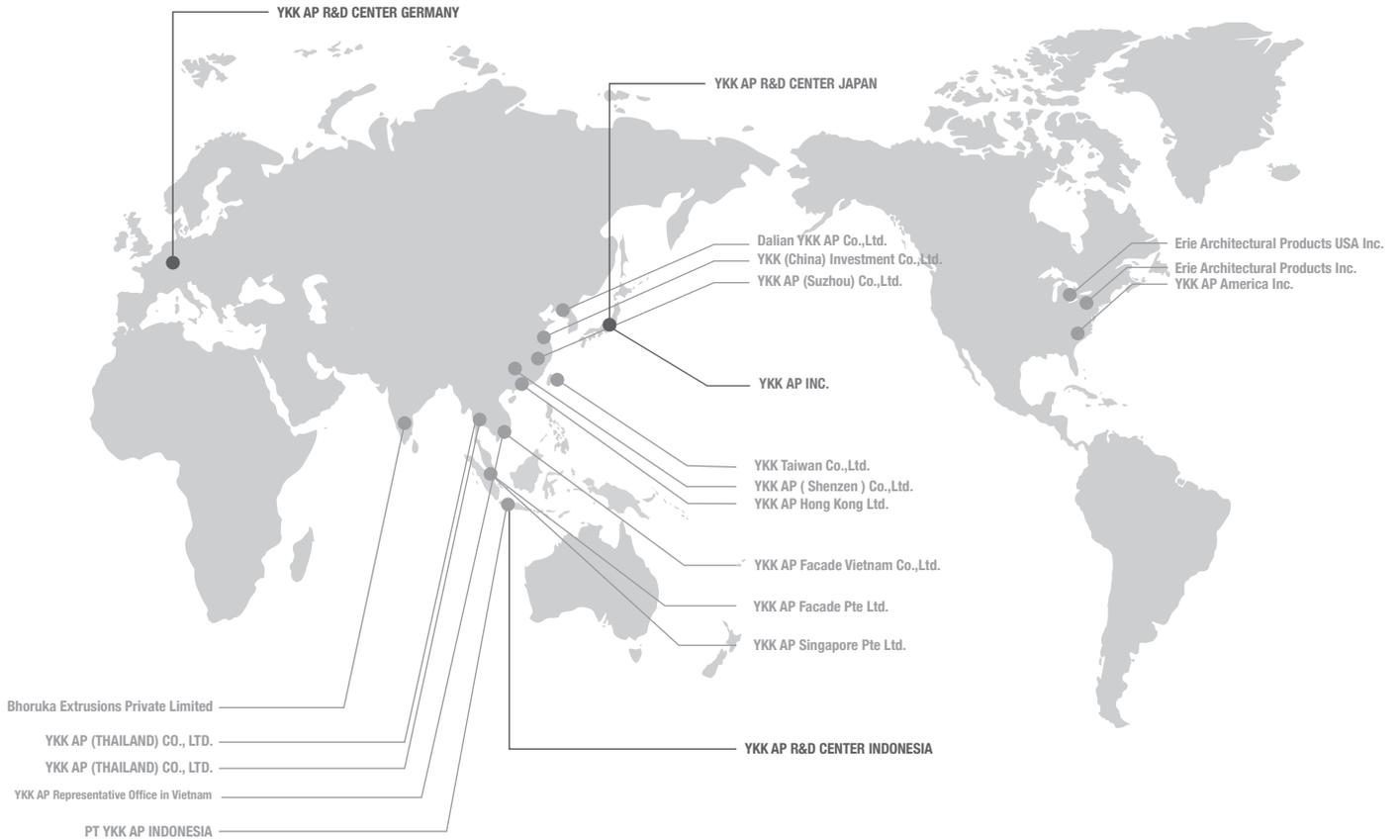
TH/DOOR DT = 36







# YKK AP AND YKK AP R&D CENTER GLOBAL NETWORK



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