

PT YKK AP INDONESIA

ENGLISH VERSION

SEP 2024

YKK  
ap<sup>®</sup>

FOR LOW - RISE  
(600Pa)



MADELA-L





# MADELA



## ***MAKE DELIGHTFUL LIFE***

MADELA is our product series that provides sufficient quality at a reasonable price based on the concept of “Simple and Easy”. It continues to grow its lineup and improve to meet the demand of Indonesia’s middle-up market.

## PROJECT REFERENCE

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Project Photo: Northwest Park Extention Citraland, Surabaya



## PROJECT REFERENCE

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Project Photo: Graha Natura Dandelion, Surabaya

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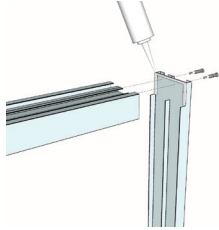


# HIGH WATERPROOFNESS ACHIEVED BY YKK AP

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.

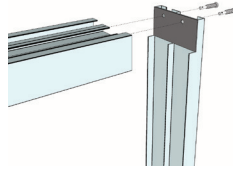
## W Proof Joint

### General metal joint (Bar window)



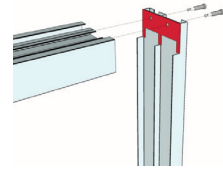
Sealant application after joining

### Normal metal joint (Other company FG)



Using a rubber Sealer pad  
\*Only Solid rubber

### YKK AP performance products



Using Sealer pad with \*SAP Material

Junction factor Water leakage ratio:  
More than 10%  
(API research)

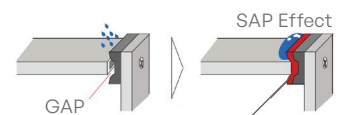
Junction factor Water leakage ratio:  
Less than 3%  
(API research)

Junction factor Water leakage ratio:  
Less than 1%  
(API research)



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

### Secret of W Proof Joint



\*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)

(\*YKK AP's survey)

More than 10%

Less than 1%

General Bar Window

AP's Performance Window

- 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

# WINDOWS FOR NEXT GENERATIONS

“SIMPLE AND EASY”

## Reliable Quality

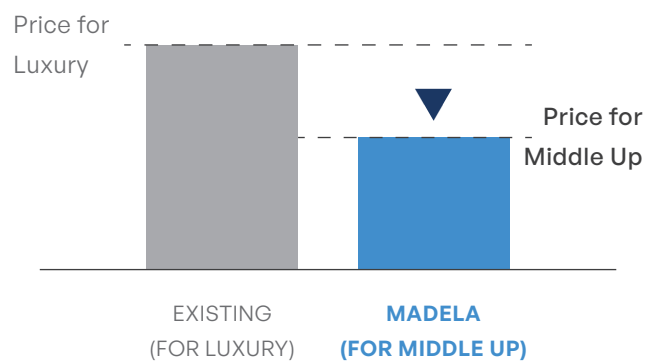
- YKK AP Original Hardware



YKK AP Original Hardware are used for the main parts

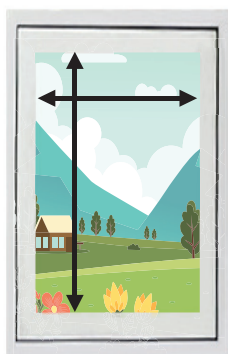
## Affordability

- Price Suitable For Middle Up Zone



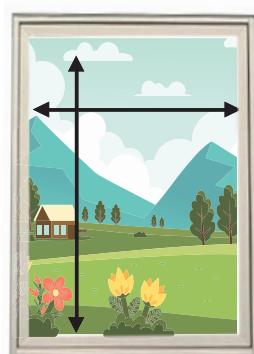
## Simple Design

### Not Obstruct The Scenery



GENERAL WINDOWS

Glass Area  
14% up



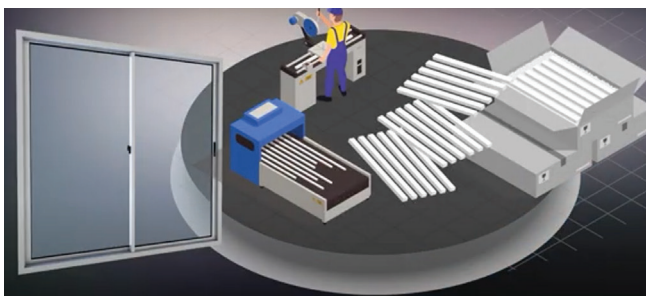
MADELA

Slim stile with  
Sufficient strength

\*Comparison condition:  
Top Hung 900x1200

## Height Processing Accuracy

Products are processed with high accuracy in AP Factory

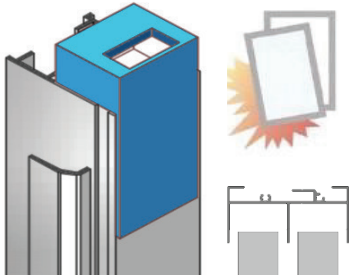




## PRODUCT FEATURE

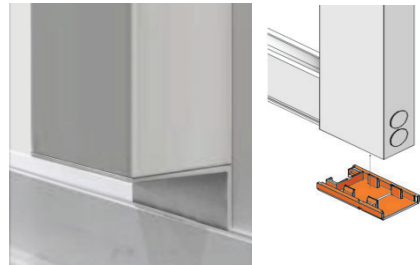
### Safety Consideration

- Anti-Lift Device



Anti-Lift device is set standard for both inner/outer shutters to prevent the shutters from falling out of position

- Safety Cap For Interlocking Stile



Prevents injuries caused by accidents during cleaning, normal use, and accidents

### Operating Parts

- Easy-To-Use

**Crescent**  
(With lock knob)

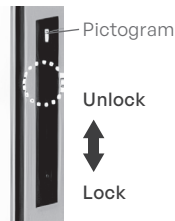


Raise the lock knob



Turn the handle to unlock

**Hook Lock**  
(Flat design)



Unlock  
Lock

- Smooth Sliding And Highly Durable Roller



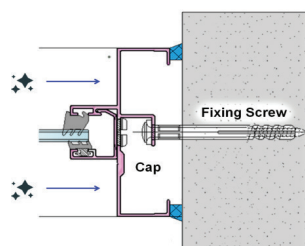
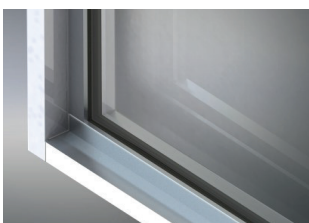
Rollers can be replaced without dismantling the shutters

After 20,000 times of opening and closing, there were no disorder for operation

### Beautiful Finishes

- Compatible With Thin Walls

**Neat and Clean Look**  
Non Visible Fixing Screw



1. Since it is screwed with the core of the wall, the wall will not break
2. Clean fit with no visible screws or caps

## The Advantage of 90° Joint Stile in Top Hung & Casement



MADELA's TOP HUNG & CASEMENT windows have **VERTICAL STILE (90° Joint)** which has neat and sharp appearance and easier to cut and assemble.



### SHARP APPEARANCE

Vertical Stile emphasizes vertical lines, unity in multiple lines.



### ADJUSTABLE WIDTH

Easily cut in site (current stile cannot be adjusted easily)



### BETTER PERFORMANCE

Even with aluminium's shrinkage feature, water does not easily leak



### WIDER GLASS AREA

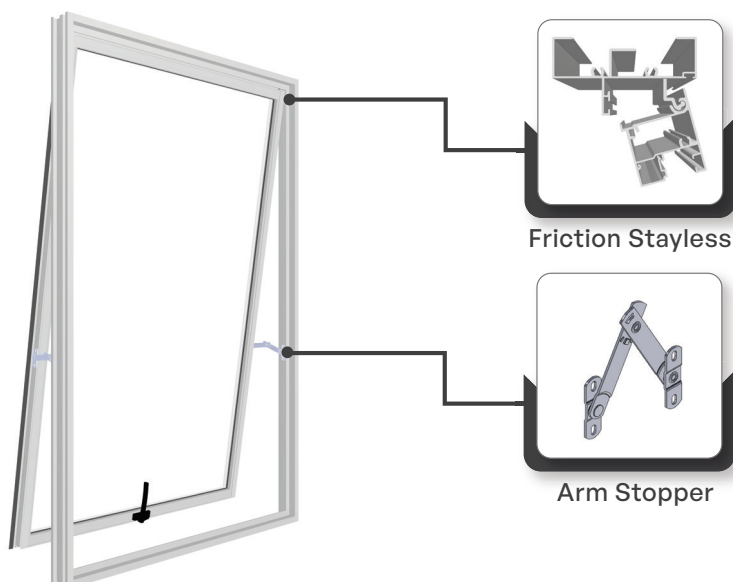
Slim stile for 14% wider scenery view than general window while keeping sufficient strength.

\*Comparison condition: Top Hung 900x1200

## Top Hung Friction Stayless **NEW**

### • Friction Stayless

Indonesia first innovation for using dedicated profile hinge for friction stayless top hung.



### Friction Stayless

Does not use friction stay, so there is no deterioration of movement due to rust.

### Safety


Arm Stopper keeps the appropriate the opening width.









# PARTS

## SPECIFICATION

### Parts Matrix

WINDOW TYPE	SLIDING (ALL TYPE)			DOOR (ALL TYPE)		
	HANDLE			HANDLE SET		
	STANDARD	OPTIONAL		OPTIONAL		
		HOOK LOCK		LEVER HANDLE	MORTISE	CYLINDER & KEY
CATEGORY	CRESCENT LOCK	WITHOUT KEY	WITH KEY Double Sided			
PARTS						
	L = 60					
COLOR OPTION	DG, YW	YK, D1	YK	YS		

WINDOW TYPE	TOP HUNG & CASEMENT					
	HANDLE*		FRICTIONSTAY		SAFETY STOPPER (OPENING ABOUT 100mm)*	
	MULTI POINT	CAMLATCH	ECONOMY*	YKK AP	ARMSTOPPER*	AL.PLATE*
PARTS						
COLOR OPTION	YK, D1	YK	YS	YS	YS	YS
*Check size limitation						

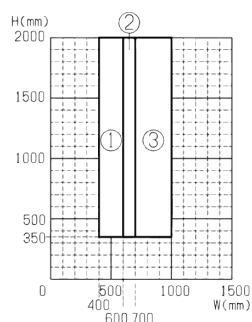
\*Optional Parts depend on user needs on strength and price matter

### Parts Color

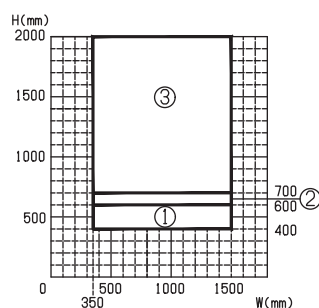
**DG** : Dark Gray    **D1** : White    **YK** : Black    **YS** : Light Gray

### Limitation Graph For Safety Stopper

#### CASEMENT



#### TOP HUNG



NO.	DESCRIPTION	PART NO.
①	AL. PLATE(L=33)	9K-11114
②	AL. PLATE(L=47)	9K-11353
③	ARM STOPPER	9K-11113

\*Not applicated for Top Hung Friction Stayless

## WINDOW PERFORMANCE

**Structural (Wind Load)**



Up to 600 pa

**Sound Insulation**



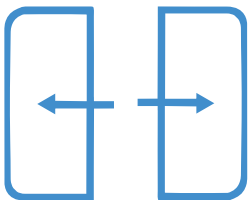
Provide A Quiet Living Atmosphere  
**-25 dB**

**Water Tightness**



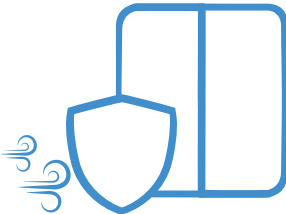
Watertight From Outside  
Within  
MADELA - L : 100Pa

**Opening Force**



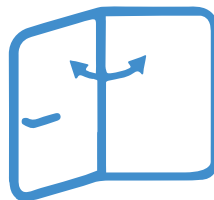
Smooth Opening  
(Less Than 5 Kg)

**Air Tightness**



Dust Free and Airtight System  
**Up to 75 Pa**





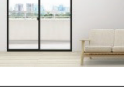
**Open-Close Test**



**20,000 Cycles**  
No Damage

\*Sliding Flat Sill and Door Without Sill performance has no guarantee

### High Quality Finishes

		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)

## Variety of Opening Types & Setting Units

### SLIDING

2 Leaves

Standard



600Pa	W2400xH2800
1200Pa	W2400xH2400

4 Leaves



600Pa	W4800xH2800
1200Pa	W4800xH2400

STEP WINDOWS



600pa	W2000xH300
1200pa	W2000xH250

2 Leaves

Flat Sill



—	W2400xH2800
---	-------------

4 Leaves



—	W4800xH2800
---	-------------

### TOP HUNG

SINGLE

Standard



600Pa	W1500xH2000
1200Pa	W1500xH2000

STEP WINDOWS  
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH2700



600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS  
(3 Level)



600Pa	W1500xH300
1200Pa	W1500xH300

SINGLE

NEW

Friction Stayless



600Pa	W1500xH2000
1200Pa	W1500xH2000

STEP WINDOWS  
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH2700



600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS  
(3 Level)



600Pa	W1500xH300
1200Pa	W1500xH300

### CASEMENT

SINGLE



600Pa	W1000xH2000
1200Pa	W1000xH2000

STEP WINDOWS  
(2 Level)



600Pa	W1000xH3000
1200Pa	W1000xH3000

STEP WINDOWS  
(3 Level)



600Pa	W1000xH300
1200Pa	W1000xH300

### FIX

SINGLE



600Pa	W1500xH2800
1200Pa	W1500xH2800

STEP WINDOWS  
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS  
(3 Level)



600Pa	W1500xH300
1200Pa	W1500xH300

### DOOR

SINGLE DOOR

WITHOUT SILL

SINGLE STEP DOOR  
(2 Level)



—	W1000xH3000
---	-------------

WITH SILL

SINGLE STEP DOOR  
(2 Level)



1200Pa	W1000xH3000
--------	-------------

DOUBLE DOOR **NEW**

WITHOUT SILL

DOUBLE STEP DOOR  
(2 Level)



—	W2000xH3000
---	-------------

WITH SILL

DOUBLE STEP DOOR  
(2 Level)



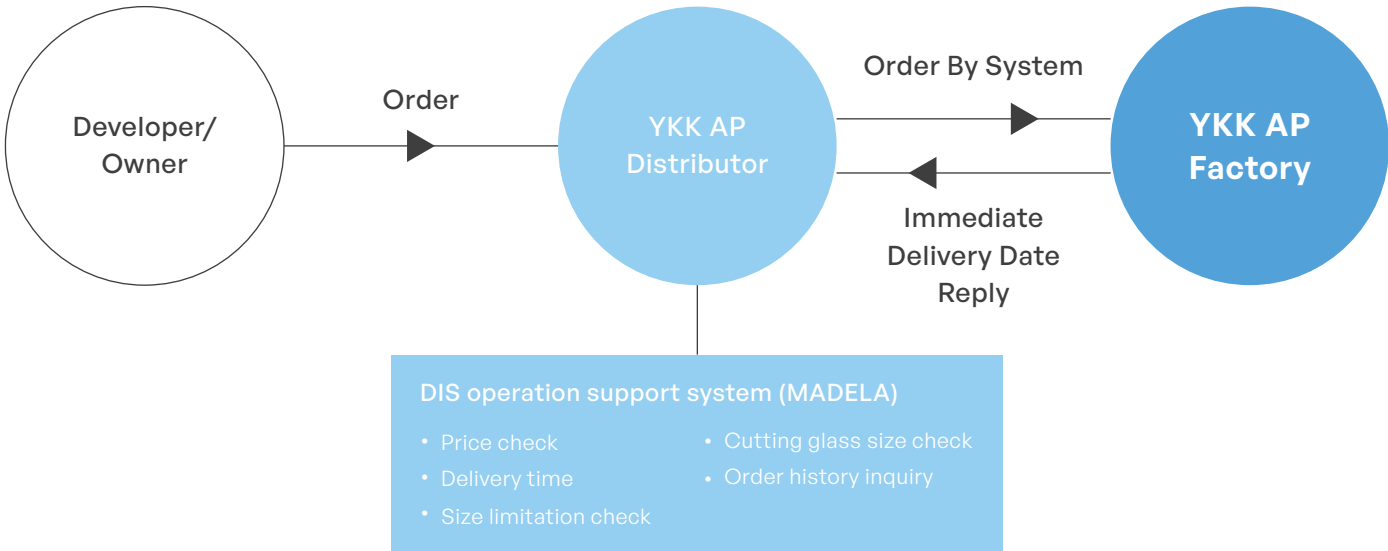
600Pa	W2000xH3000
-------	-------------



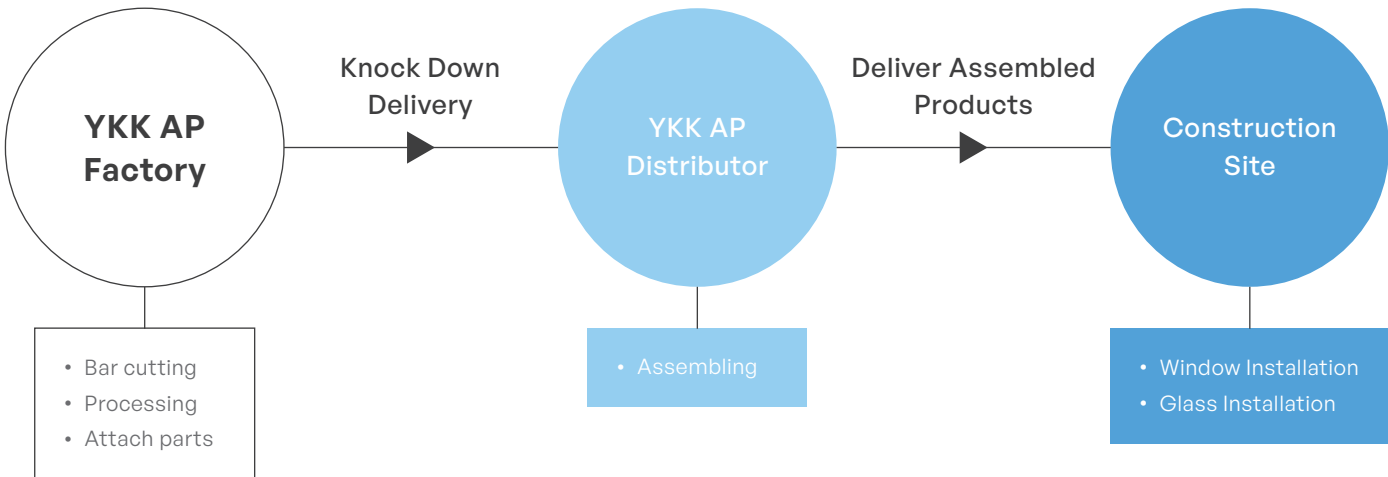
## ABOUT MADELA

**MADELA** is a product with a **new concept**, when DIS places an **order by this system**, the orders arrive directly at the factory line, and it will be possible to **notify the price, delivery date, etc in real time**

### Order Flow



### Delivery Flow



# PRECAUTIONS

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## • About the Price List

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- The prices listed in this catalog exclude glass, installation fees, and assembly fees  
The price list is listed in units of 100 mm, and less than 100 mm should be rounded up  
Ex) W1830xH860 = The price will be 1900x900
- For the stepped window type, add up the prices of each single window.
- For the continuous window type, add the mullion price

## • Delivery Destination

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- Only DIS warehouse or workshop, on-site delivery is not possible (Can be picked up at the factory upon request)

## • Quality Assurance

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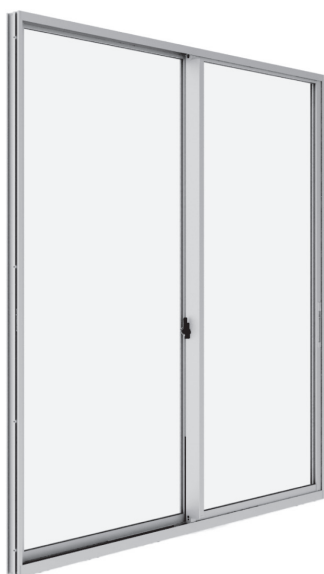
- 10 years for surface treatment of profile and 2 years for parts (see below for disclaimers)
- DIS guarantees for the quality of assembly, installation, and sealing

## • Disclaimer

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- Even within the warranty period, the following cases will be repaired for a fee  
When the product at the time of ordering is modified (cut • installation of on-site procured parts, processed, problems due to inadequate construction • management • and maintenance
- Problems when installed in a place that requires performance that exceeds the performance of this product
- Product defects caused by defects other than the product, such as deformation of the building frame
- Corrosion or other defects caused by the natural environment or living environment around the product (for example, corrosion caused by salt damage, dust in the atmosphere, soot, various metal powders, sulfurous acid gas, ammonia, corrosion caused by car exhaust gas, abnormal high temperature, low temperature, high humidity etc)
- Phenomena associated with the material properties of products or parts (e.g., the sound of opening and closing windows)
- Problems caused by natural disasters or other force majeure (for example, windbreaks, heavy rains, storm surges, earthquakes, lightning strikes, floods, land subsidence, fires, tsunamis, eruptions, etc)
- Problems caused by small animals such as dogs, cats, birds, and mice
- Problems caused by operational errors after delivery, improper adjustment, or improper maintenance
- Problems caused by customer's own assembly, processing, installation, repair, modification
- Damage or malfunction caused by illegal acts such as crime. Problems that occur under conditions that exceed the performance value
- Problems that occur under conditions that exceed the performance value
  - \* A fee will be charged for replacement after the warranty period has expired
  - \* This document does not limit customer's legal rights. If customers have any questions about repairs after the warranty period has expired, please contact our sales office

# SLIDING 2 LEAVES



## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Specifications

### Selected parts :

Crescent, Hook Lock, Hook Lock With Key (Optional)

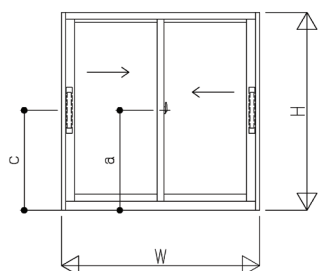
## Glass

Glass Size	Qty	Thickness
$(W/2-66) \times (H-117)$	2	5,6,8

FOR H>2500 USE GLASS ONLY 6mm & 8mm

## Standard Specifications

### OUTSIDE VIEW



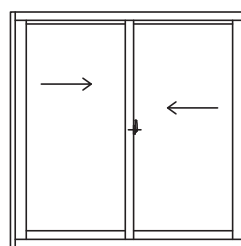
Crescent Height : a

- $H/2+5$
- 645
- Custom

Hook Lock Height : c

- $H/2+5$
- 645
- Custom

### 2 LEAF STANDARD

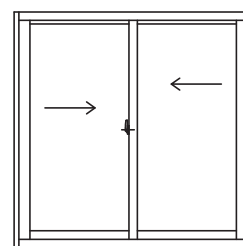


Inside

Outside

### 2 LEAF REVERSE

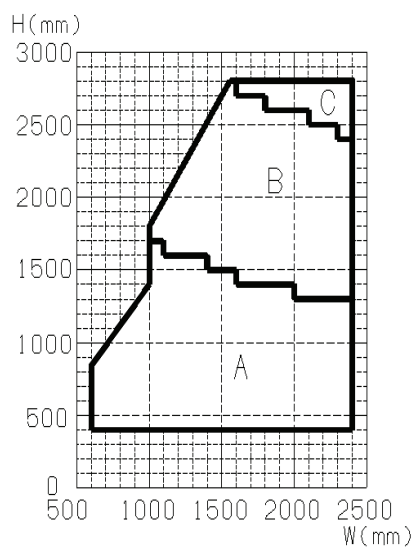
#### OUTSIDE VIEW



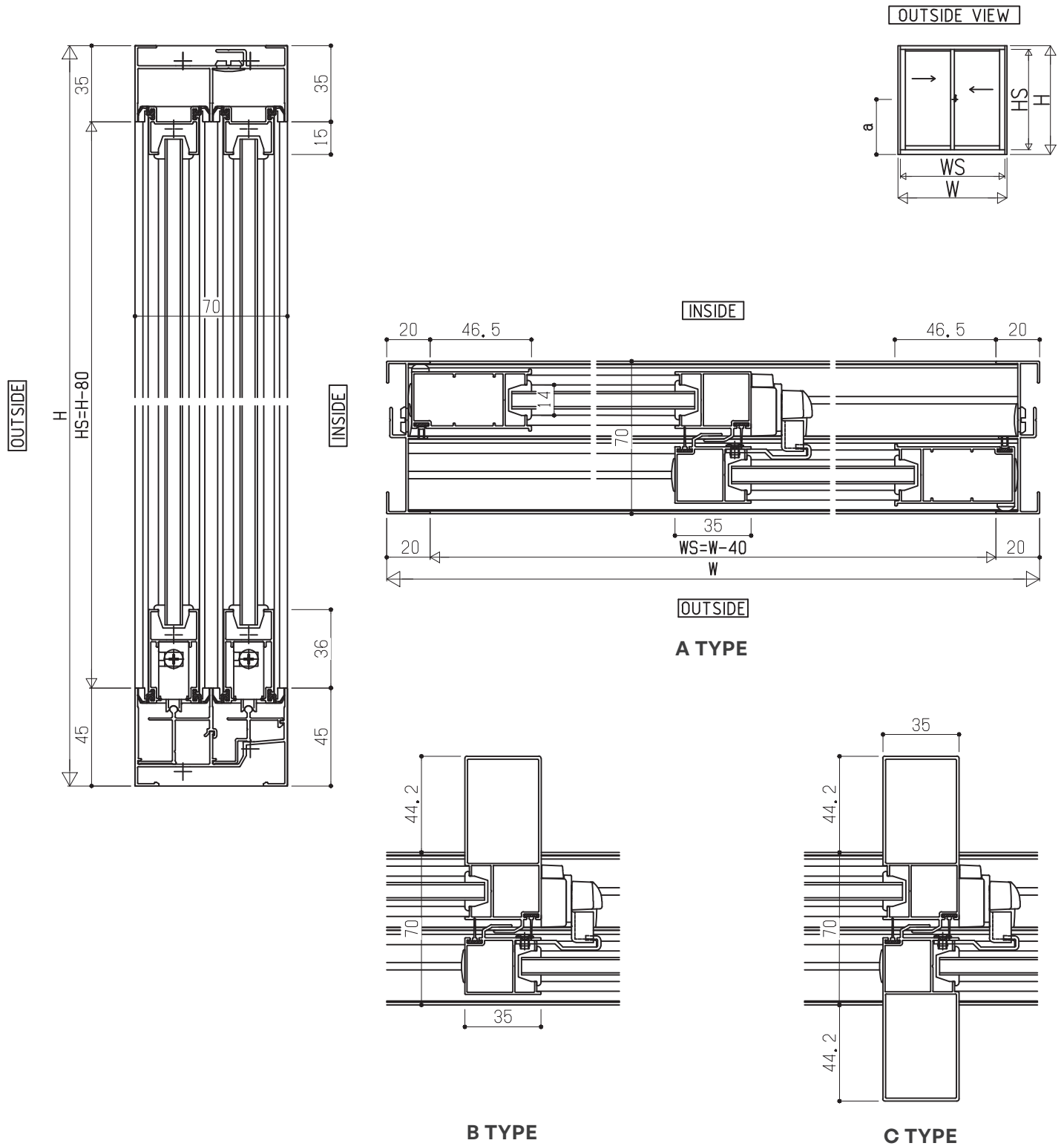
Inside

Outside

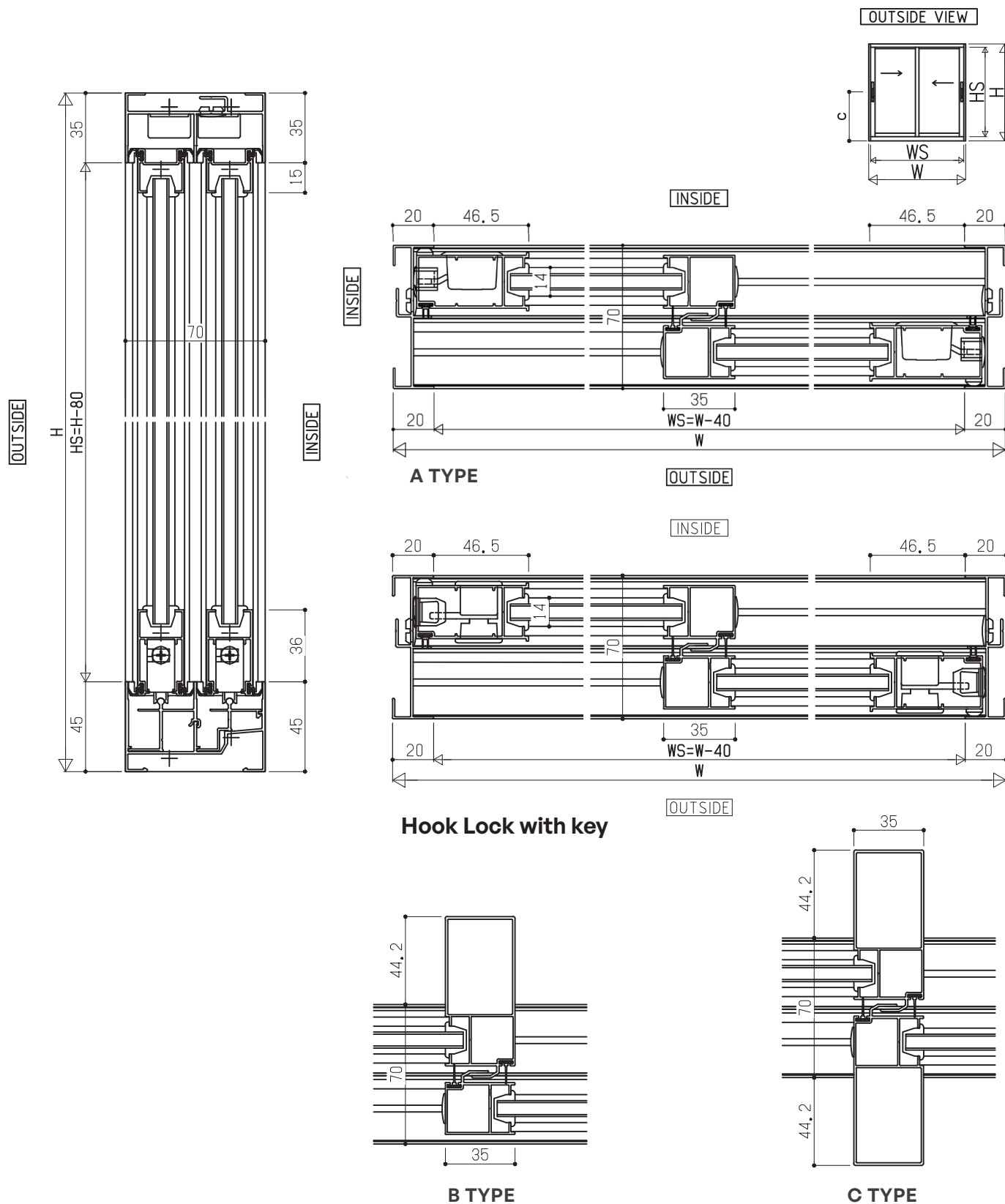
## Size Limitation







\* The stile type is automatically selected according to the size range.  
Please check the size limitation graph.



\* The stile type is automatically selected according to the size range.

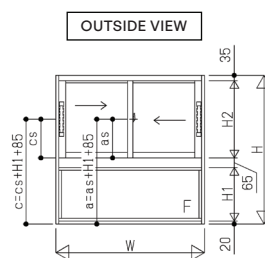
Please check the size limitation graph.



## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification



**Crescent Height : as**

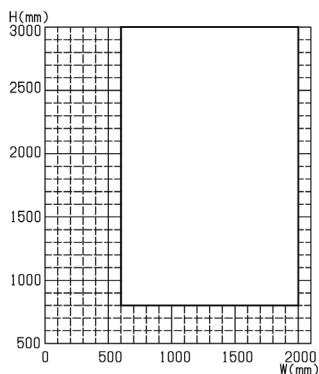
- H2/2
- 600
- Custom

**Hook Lock Height : c**

- H2/2
- 600
- Custom

## Size Limitation

WH size



## Specifications

**Selected parts :**

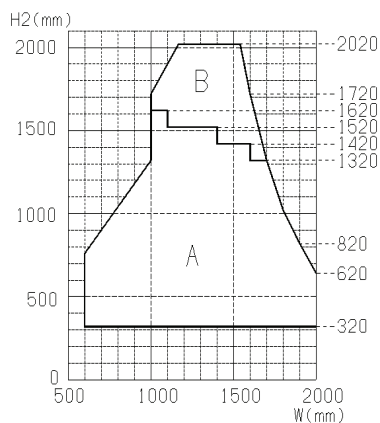
Crescent, Hook Lock, Hook Lock with key

## Glass

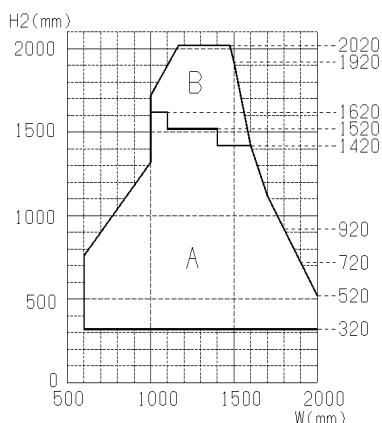
	Glass Size	Qty	Thickness
SL	$(W/2-66) \times (H2-37)$	2	5,6,8
FIX	$(W-62) \times (H1-22)$	1	5,6,8

## Size Limitation

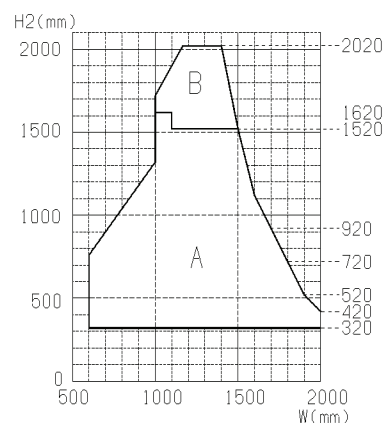
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm



## SLIDING 2 LEAVES/FIX

### PRICE LIST

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- Crescent

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1 See page **12** for the upper sliding window

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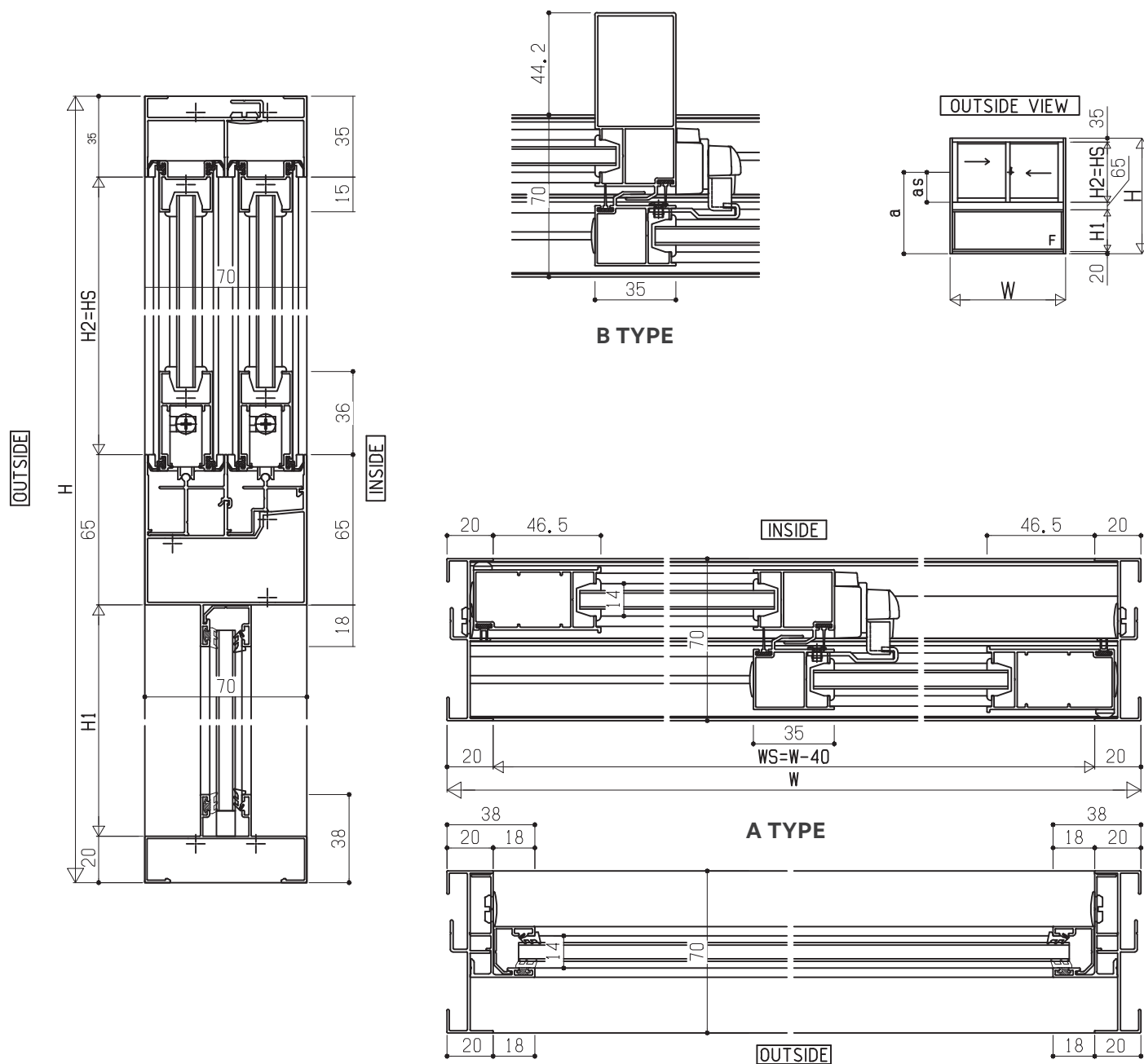
2 See page **32** for the lower FIX

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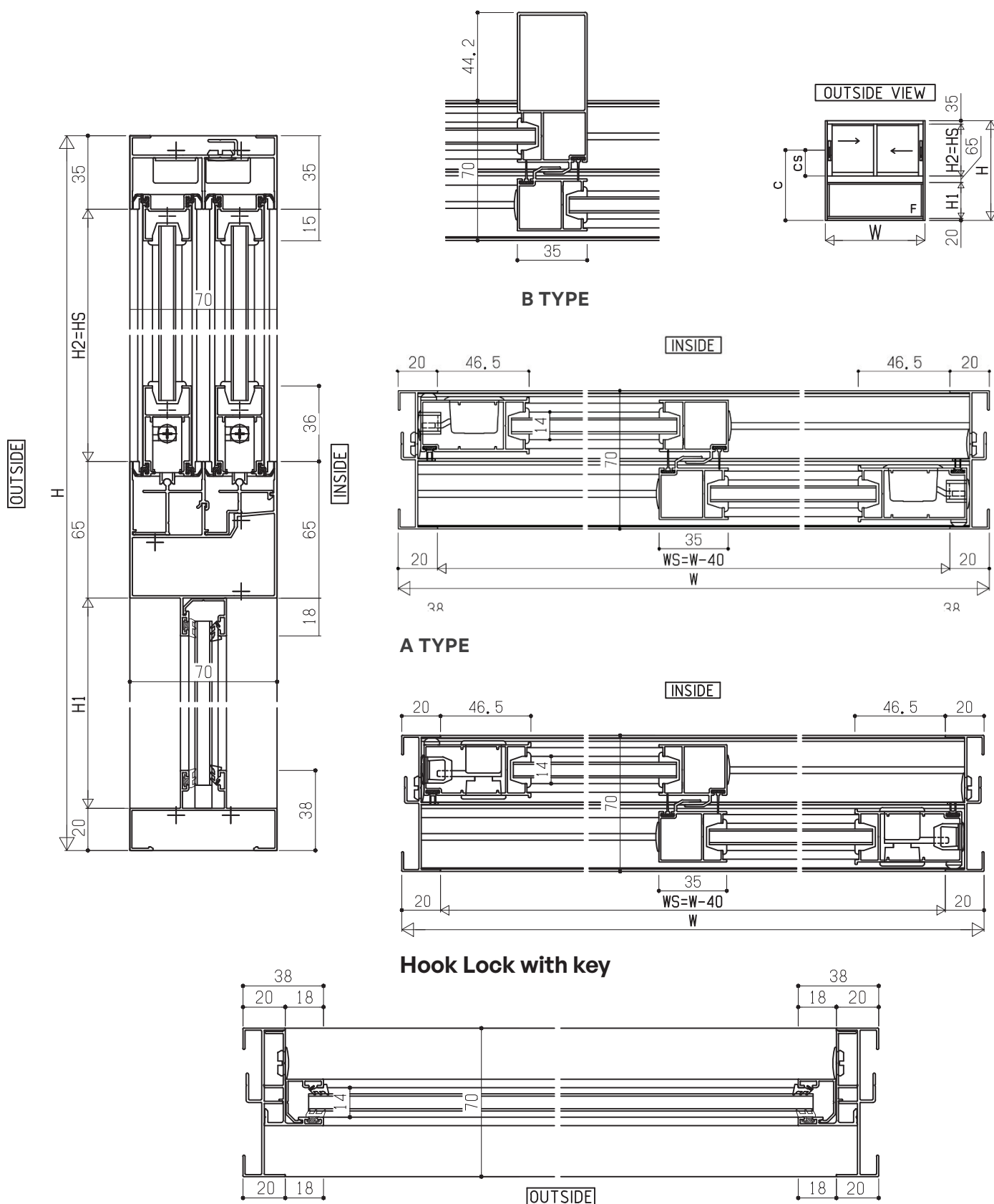
Price : 1 + 2

\* For the specifications with **Hook Lock**, 0.21 juta/set will be added to the price above

\*For the specifications with **Hook Lock with key**, 0.53 juta/set will be added to the price above.



\* The stile type is automatically selected according to the size range.  
Please check the size limitation graph.



\* The stile type is automatically selected according to the size range.

Please check the size limitation graph.



# SLIDING 4 LEAVES

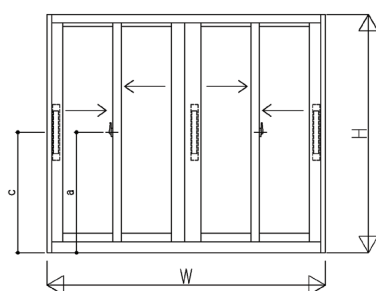


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specifications

### OUTSIDE VIEW



**Crescent Height : a**

- $H/2+5$
- 645
- Custom

**Hook Lock Height : c**

- $H/2+5$
- 645
- Custom

## Specifications

### Selected parts :

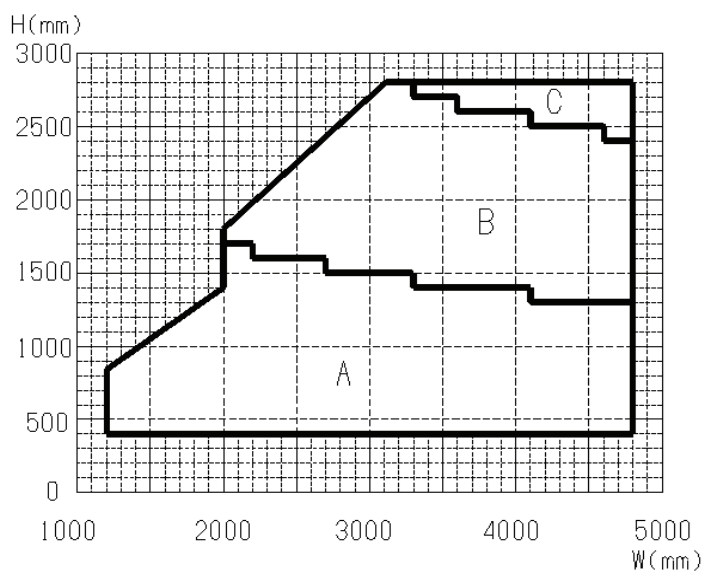
Crescent, Hook Lock, Hook Lock with key

## Glass

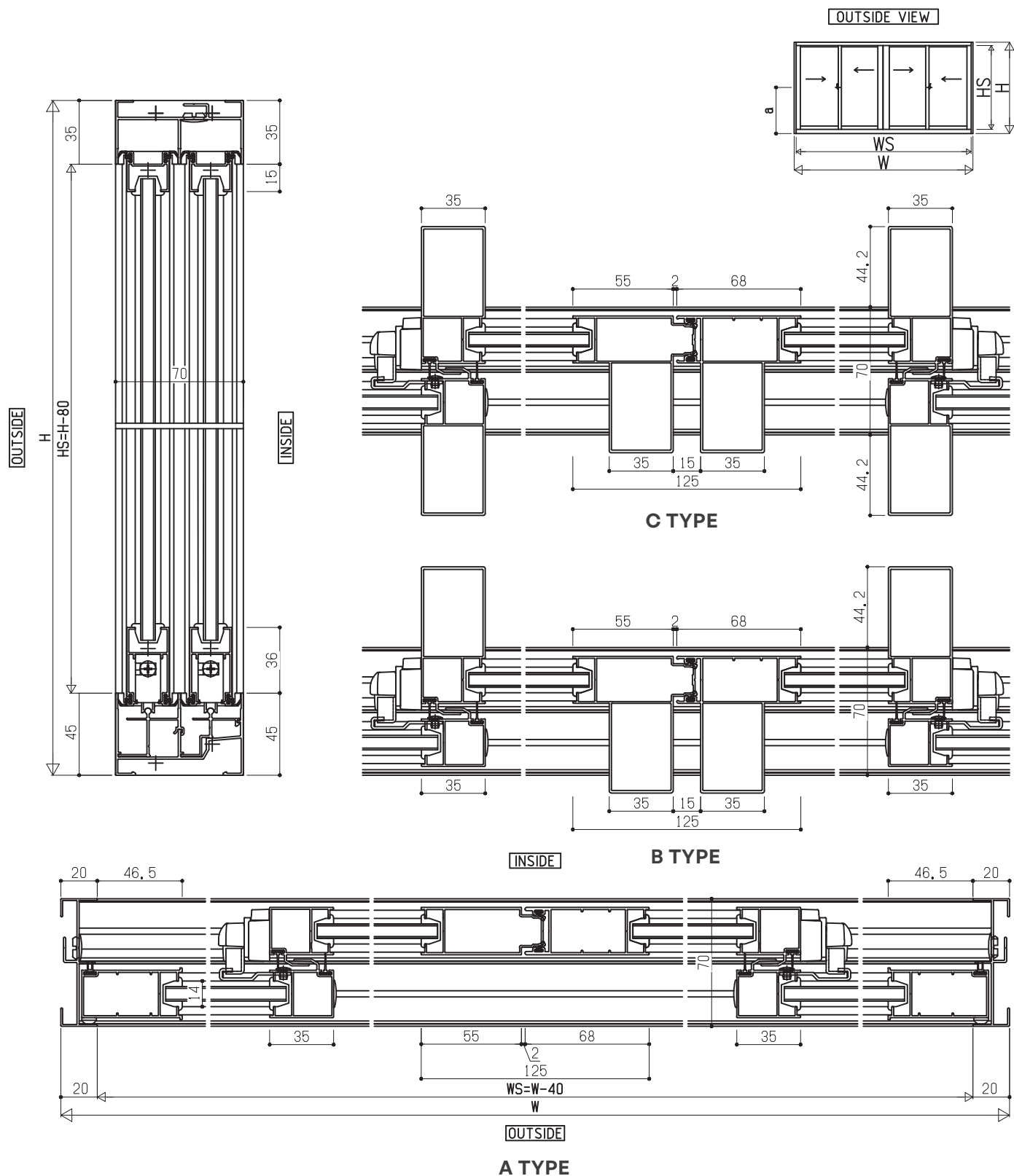
Glass Size	Qty	Thickness
$(W/4-64) \times (H-117)$	4	5,6,8

- FOR  $H > 2500$  USE GLASS ONLY 6mm & 8mm

## Size Limitation



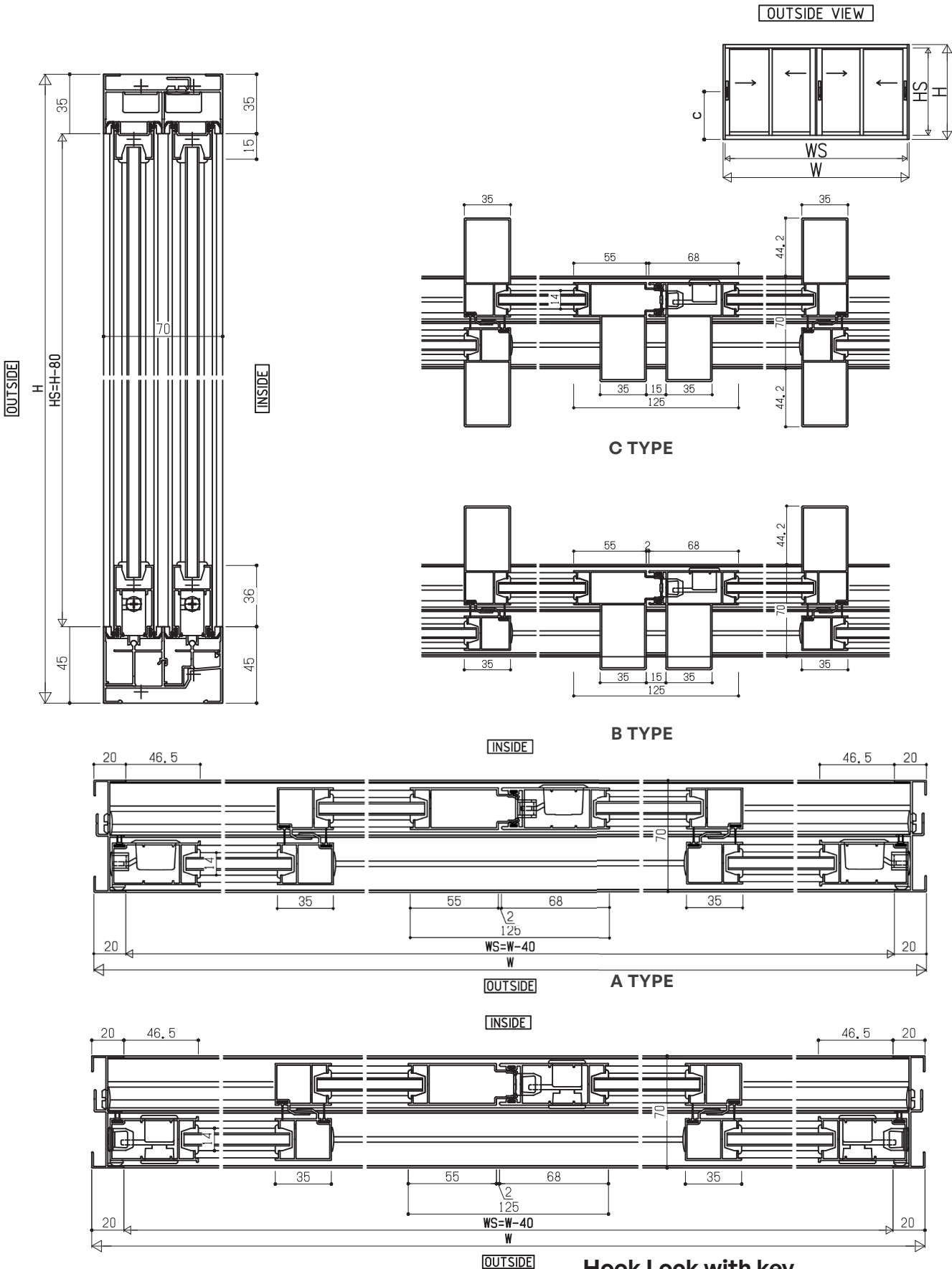
SEE SYSTEM DRAWING (P21, 22) FOR A, B, C



\* The stile type is automatically selected according to the size range.  
Please check the size limitation graph.

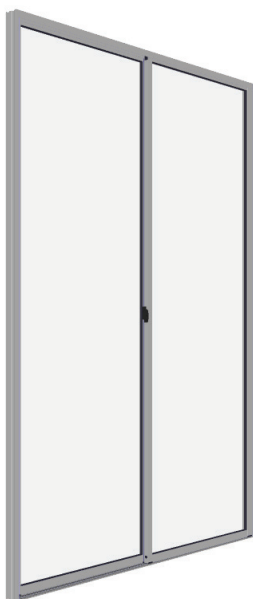
## SYSTEM DRAWING

## HOOK LOCK



\* The stile type is automatically selected according to the size range.  
Please check the size limitation graph.

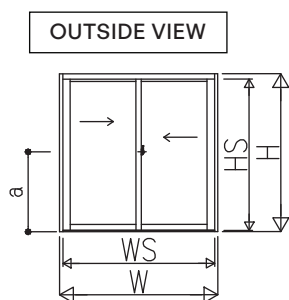
## SLIDING FLAT SILL 2 LEAVES



### Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

### Standard Specifications



**Crescent Height : a**

- $H/2-12.5$
- 610
- Custom

**Hook Lock / Hook Lock Double Sided**

**Height : c**

- $H/2-12.5$
- 610
- Custom

### Specifications

**Selected parts :**

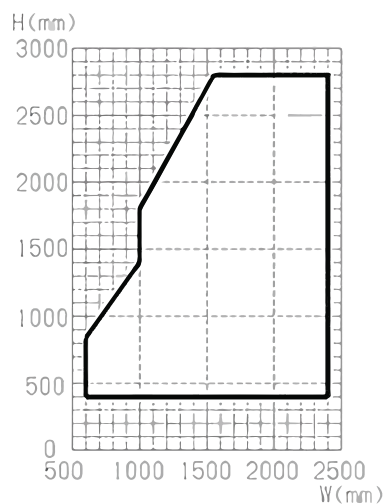
Crescent, Hook Lock, Hook Lock with key

### Glass

Glass Size	Qty	Thickness
$(W/2-66) \times (H-89)$	2	5,6,8

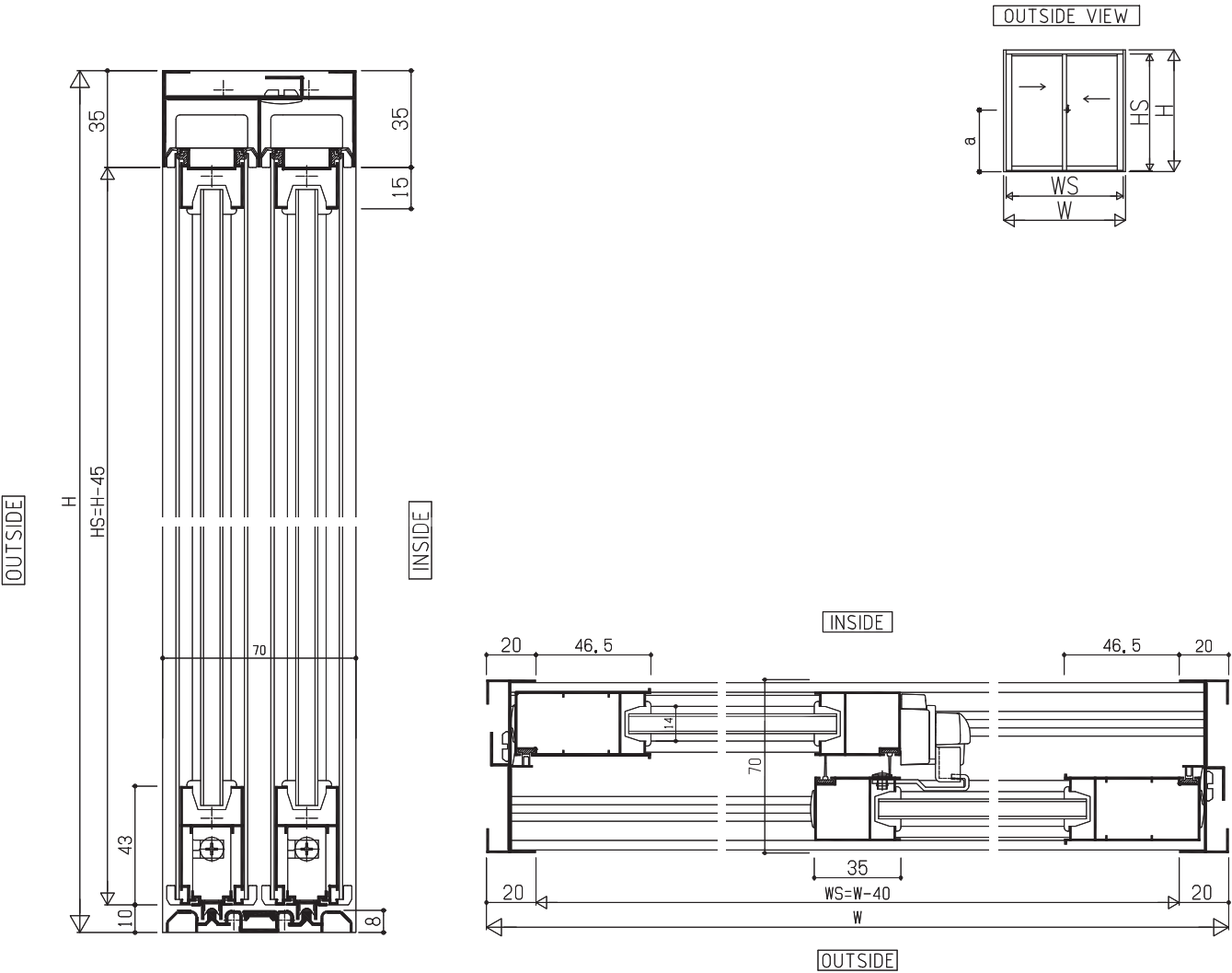
- FOR  $H > 2500$  USE GLASS ONLY 6mm & 8mm

### Size Limitation



SLIDING FLAT SILL 2 LEAVES  
SYSTEM DRAWING

CRESCENT LOCK

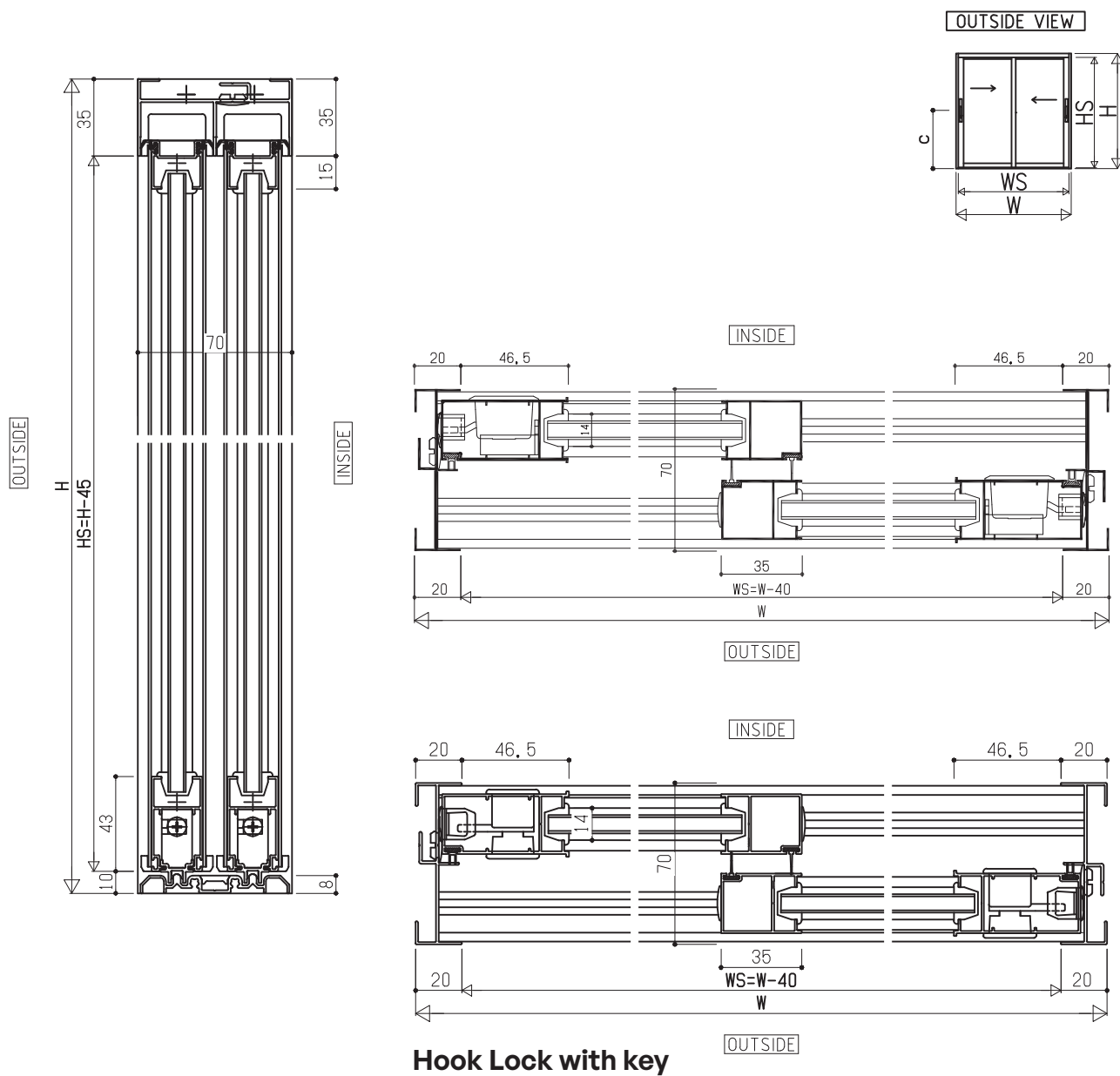




# SLIDING FLAT SILL 2 LEAVES

## SYSTEM DRAWING

## HOOK LOCK



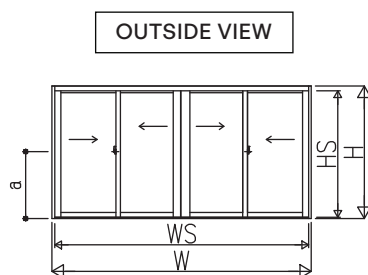
# SLIDING FLAT SILL 4 LEAVES



## Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

## Standard Specifications



**Crescent Height : a**

-  $H/2-12.5$

- 610

- Custom

**Hook Lock / Hook Lock Double Sided**

**Height : c**

-  $H/2-12.5$

- 610

- Custom

## Specifications

**Selected parts :**

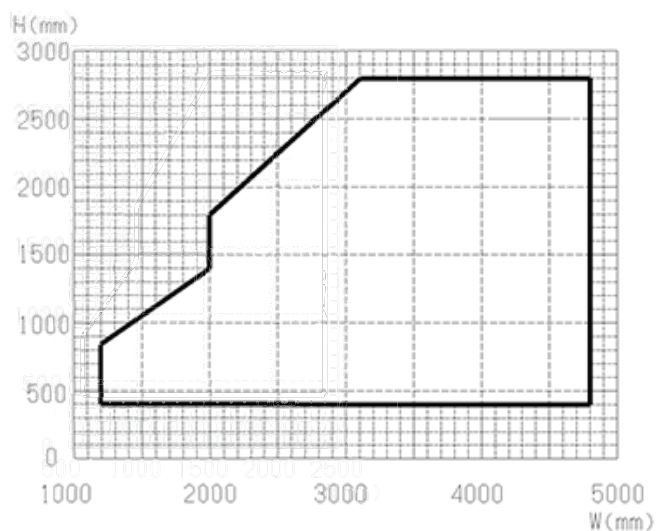
Crescent, Hook Lock, Hook Lock with key

## Glass

Glass Size	Qty	Thickness
$(W/4-64) \times (H-89)$	4	5,6,8

• FOR  $H > 2500$  USE GLASS ONLY 6mm & 8mm

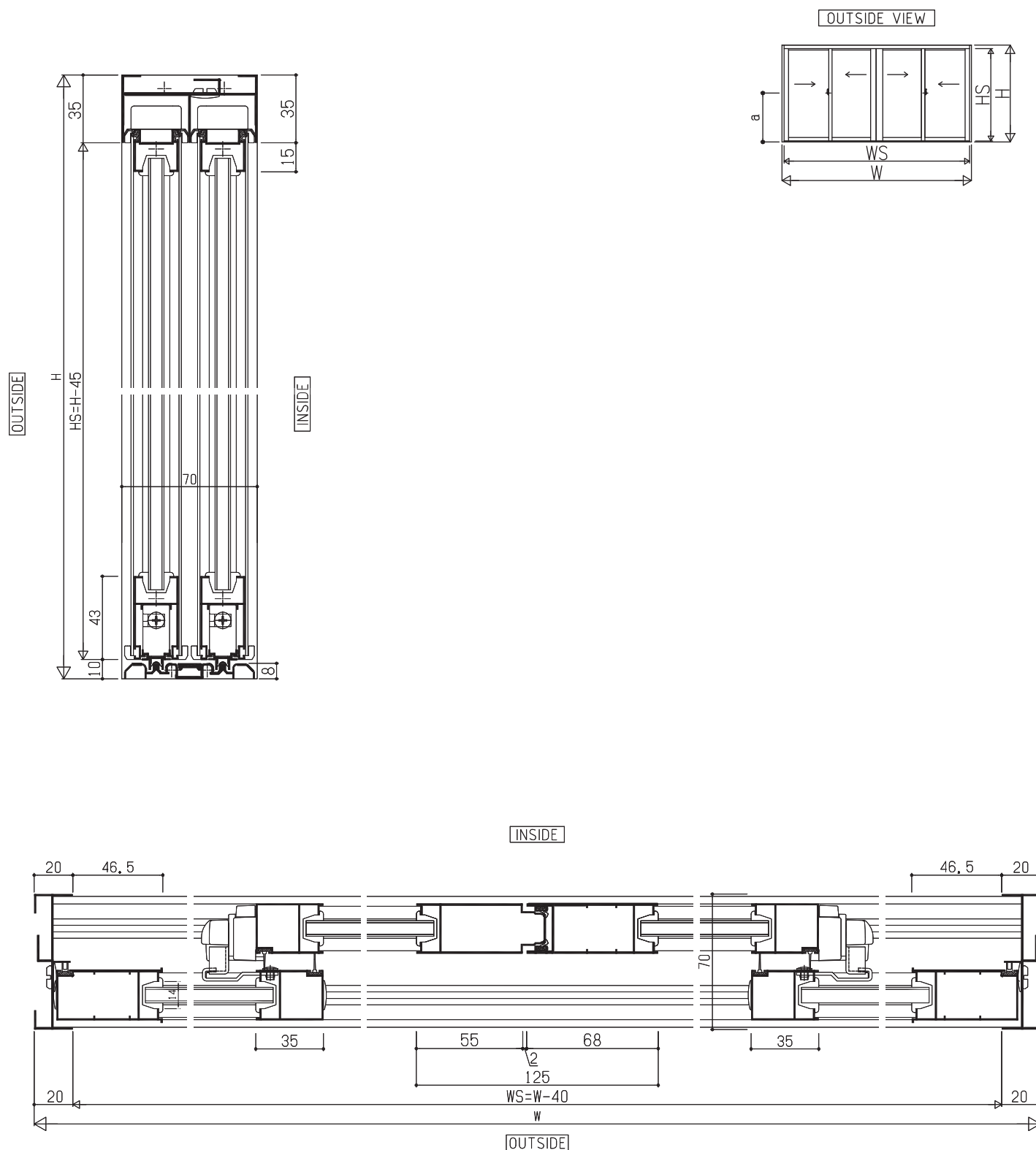
## Size Limitation



# SLIDING FLAT SILL 4 LEAVES

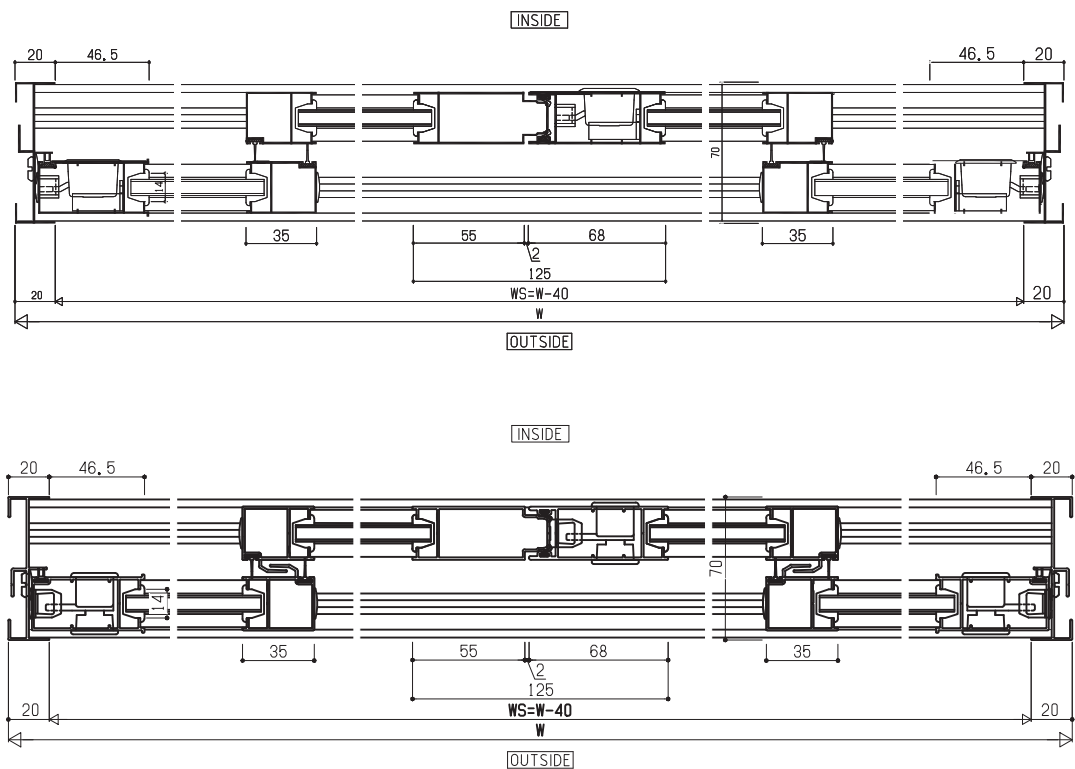
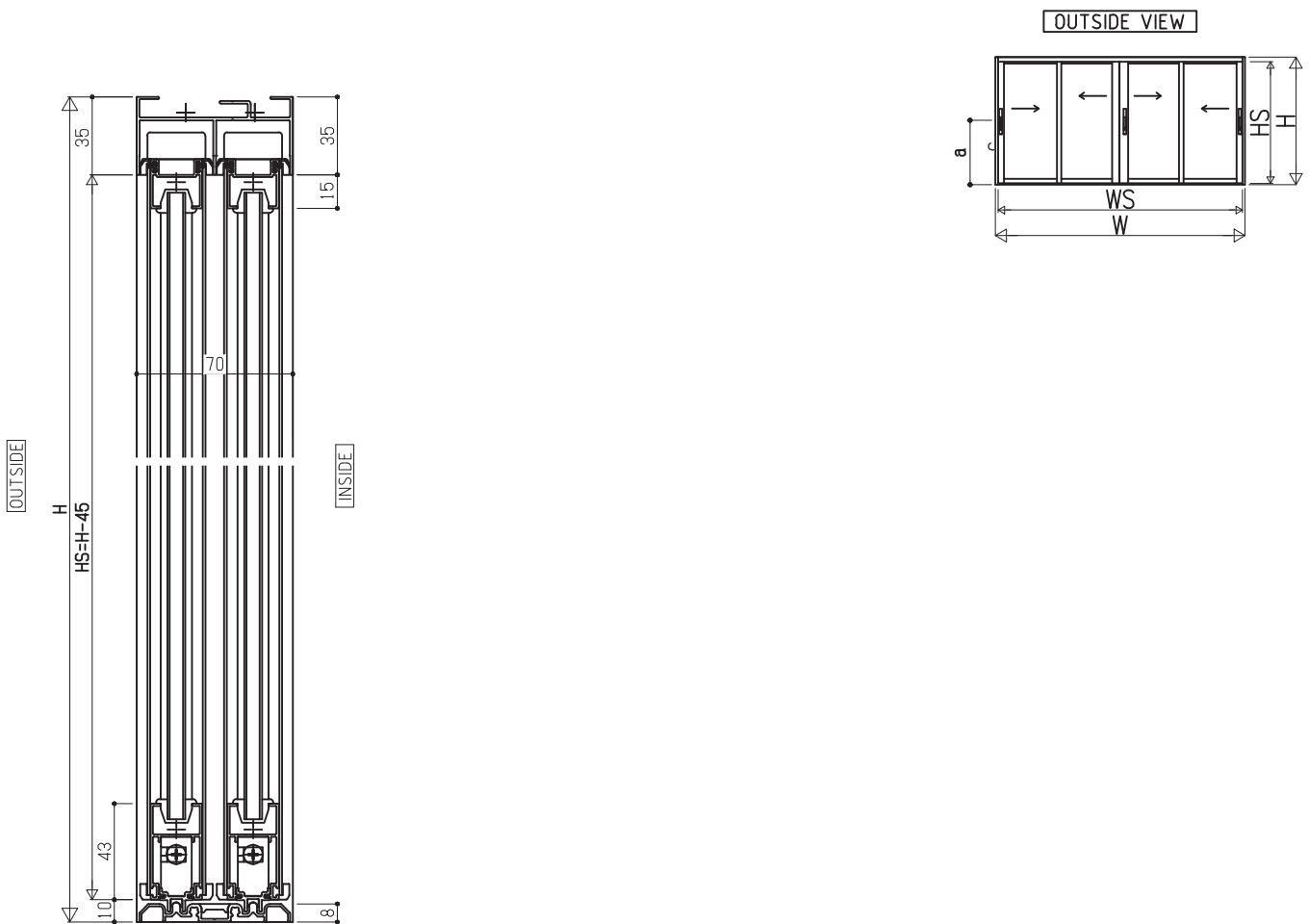
## SYSTEM DRAWING

CRESCENT



**SLIDING FLAT SILL 4 LEAVES**  
SYSTEM DRAWING

**HOOK LOCK**



**Hook Lock with key**



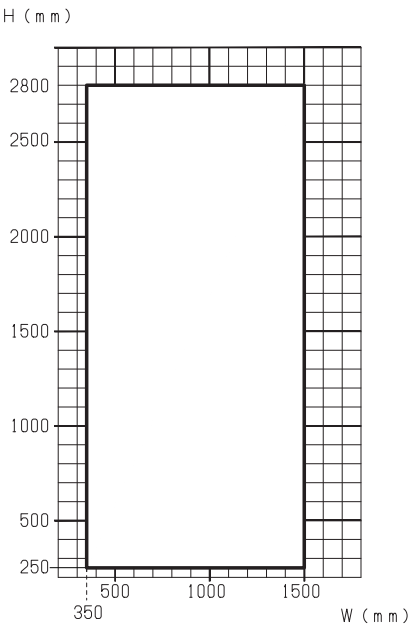
Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

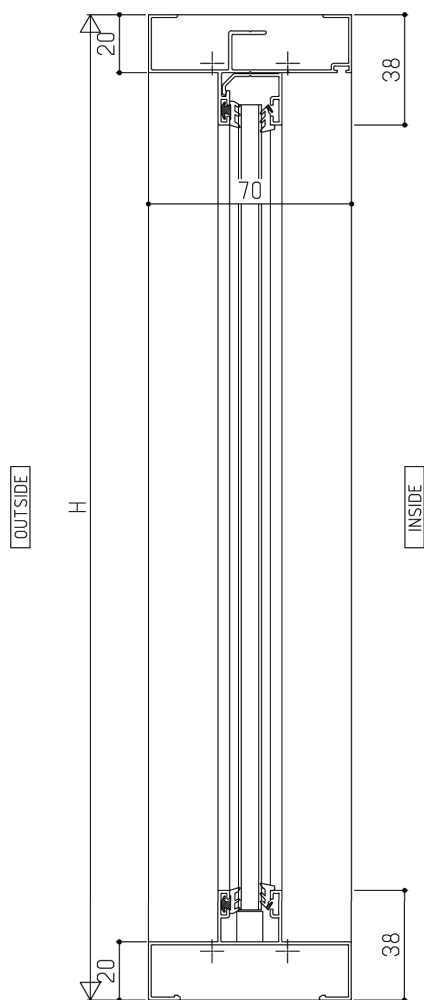
Glass

Glass Size	Qty	Thickness
(W-62)×(H-62)	1	5,6,8

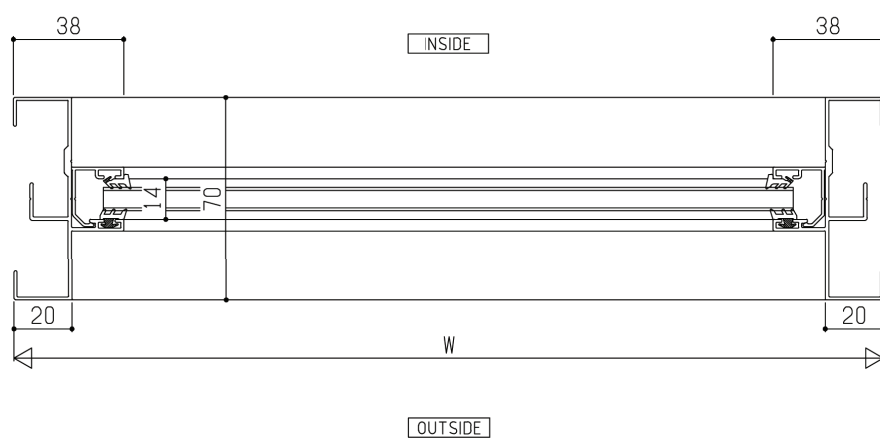
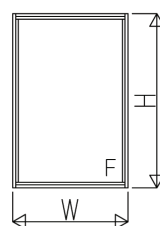
Size Limitation







OUTSIDE VIEW





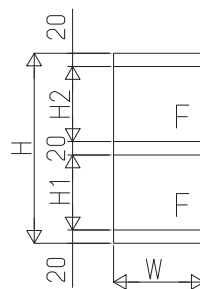


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

### OUTSIDE VIEW

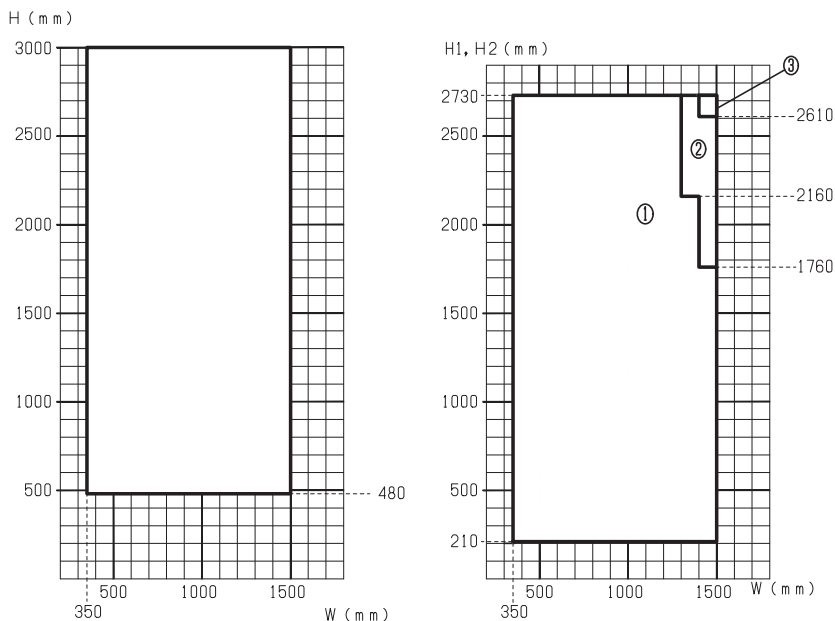


**h1, h2 :**  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
Upper	(W-62) × (H2-22)	1	5,6,8
Lower	(W-62) × (H1-22)	1	5,6,8

## Size Limitation



## FIX/FIX

### PRICE LIST

---

1 See page **32** for the upper FIX

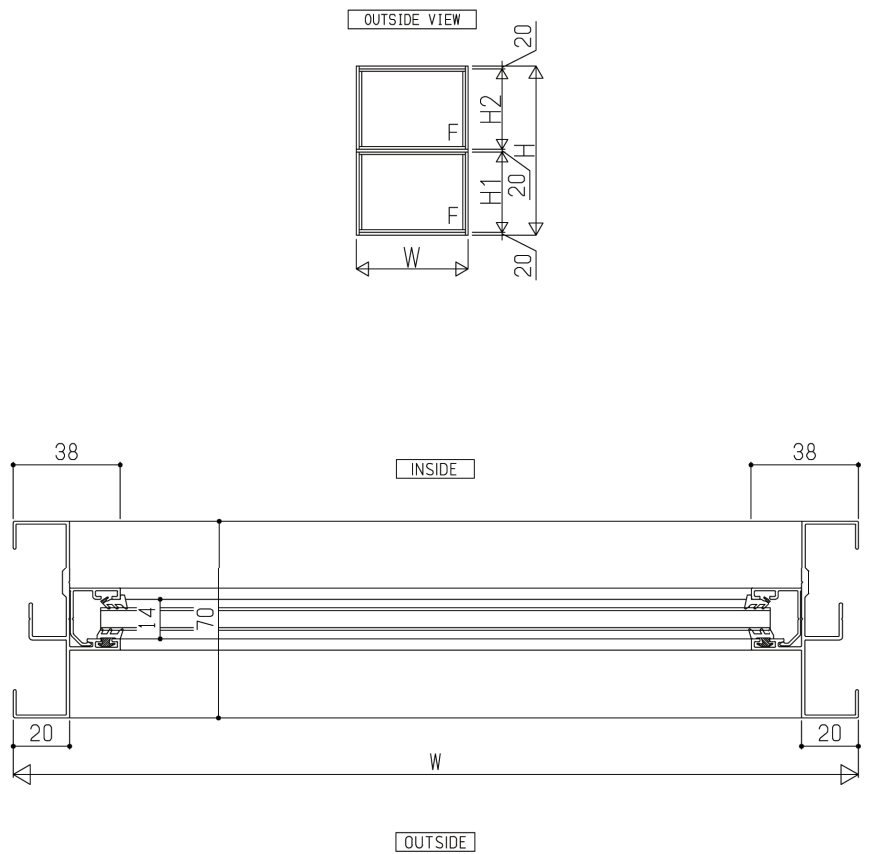
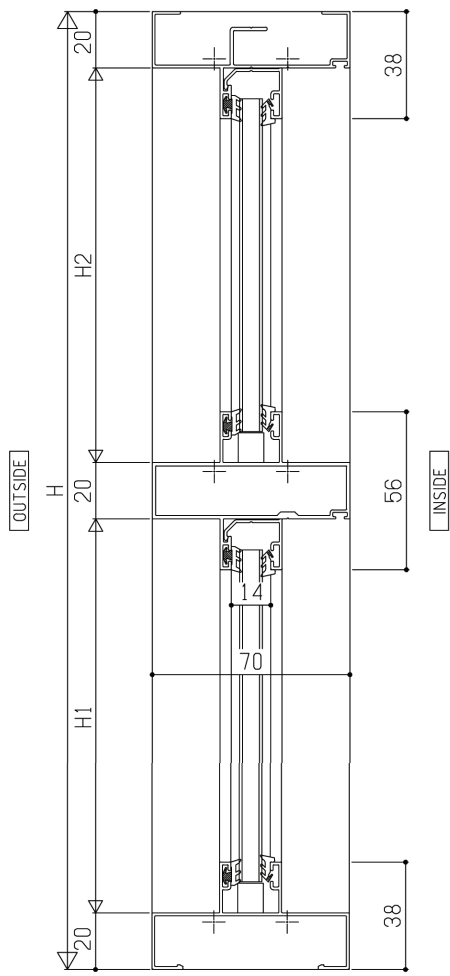
---

2 See page **32** for the lower FIX

---

Price : 1 + 2

---







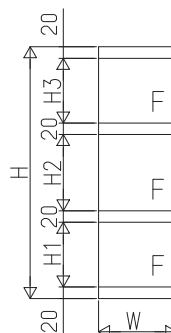


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

### OUTSIDE VIEW



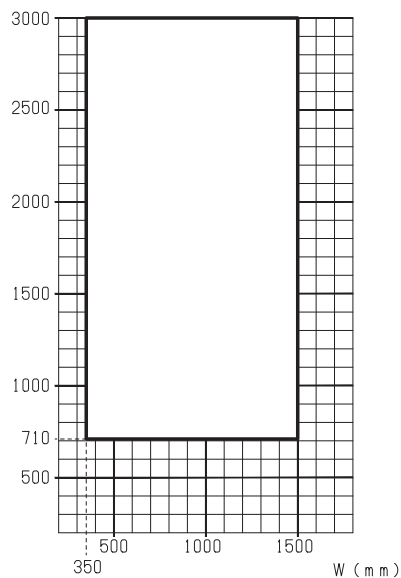
h1, h2, h3 :  
System Order  
Dimensions

## Glass

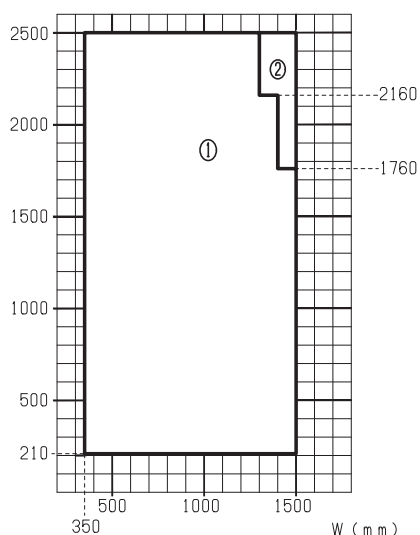
	Glass Size	Qty	Thickness
Upper	$(W-62) \times (H3-22)$	1	5,6,8
Middle	$(W-62) \times (H2-22)$	1	5,6,8
Lower	$(W-62) \times (H1-22)$	1	5,6,8

## Size Limitation

H (mm)



H1, H2, H3 (mm)



①...5, 6, 8mm  
②...5, 6mm

## FIX/FIX/FIX

### PRICE LIST

---

1 See page **32** for the upper FIX

---

2 See page **32** for the middle FIX

---

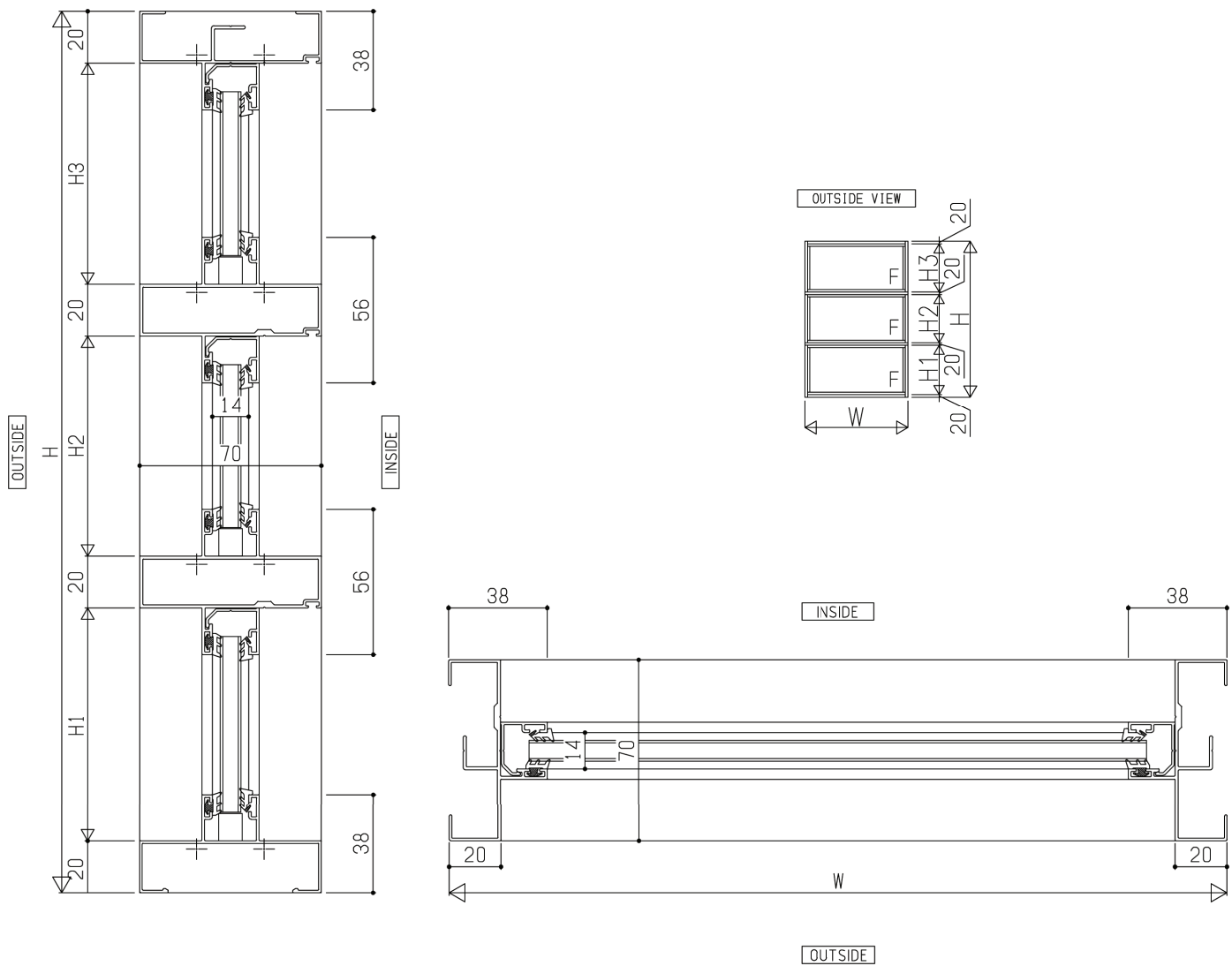
3 See page **32** for the lower FIX

---

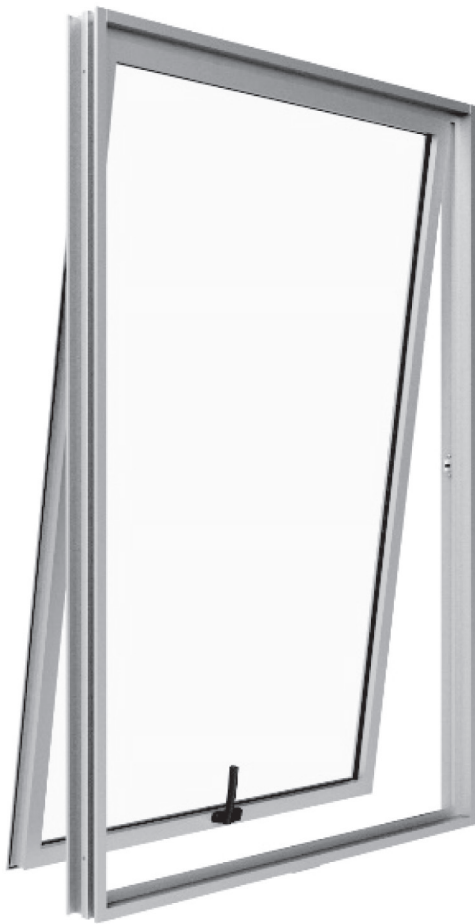
Price : 1 + 2 + 3

# FIX/FIX/FIX

## SYSTEM DRAWING







## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Specifications

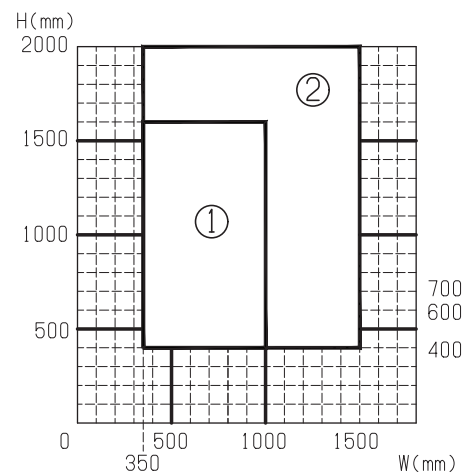
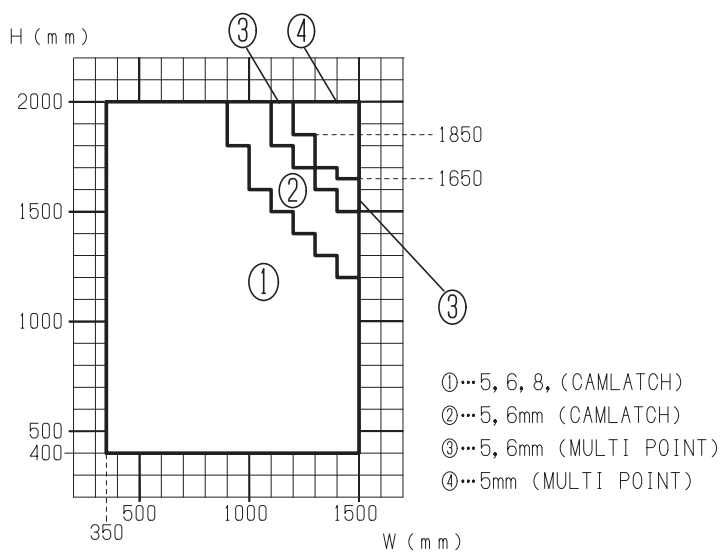
### Selected parts :

Camlatch, Multipoint Lock

## Glass

Glass Size	Qty	Thickness
(W-118)×(H-120)	1	5,6,8

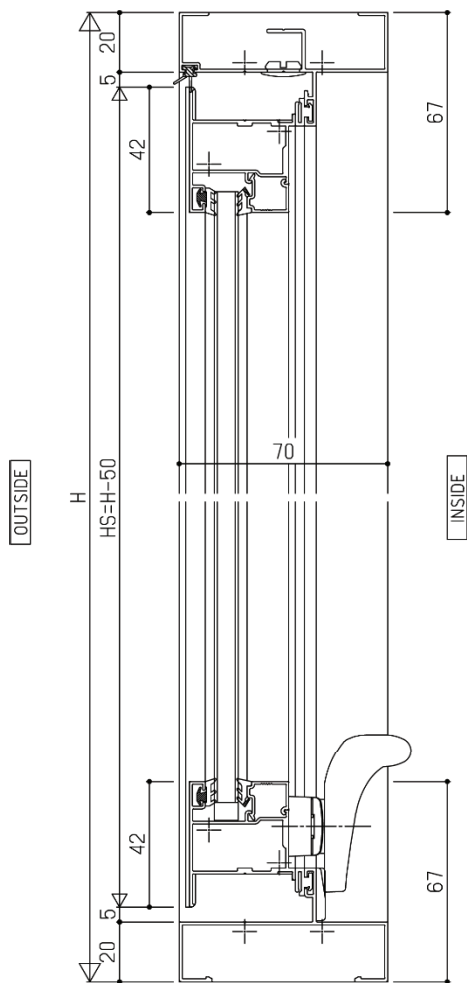
## Size Limitation



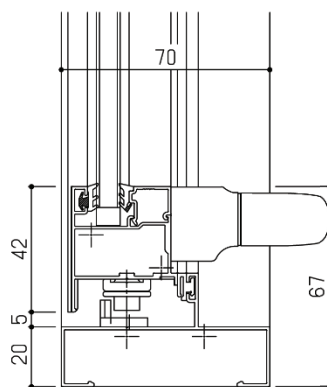


# TOP HUNG

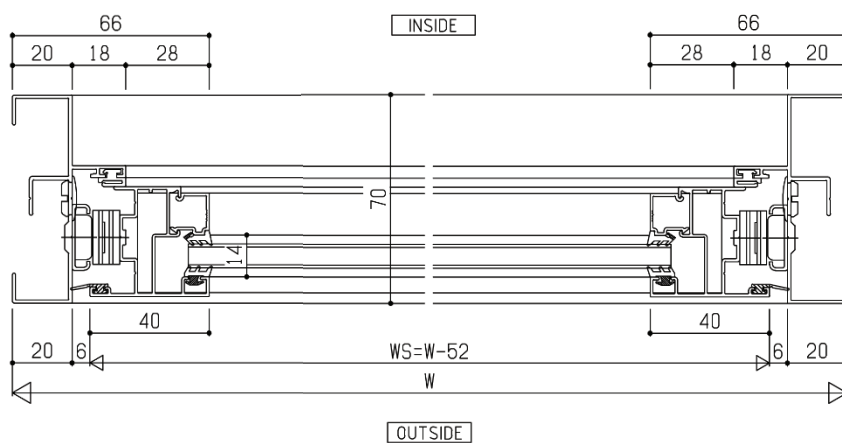
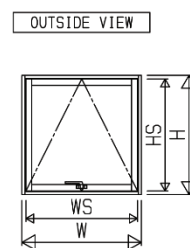
## SYSTEM DRAWING



**CAMLATCH**



**MULTIPOINT LOCK**





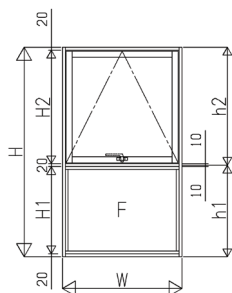


### Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

### Standard Specification

OUTSIDE VIEW

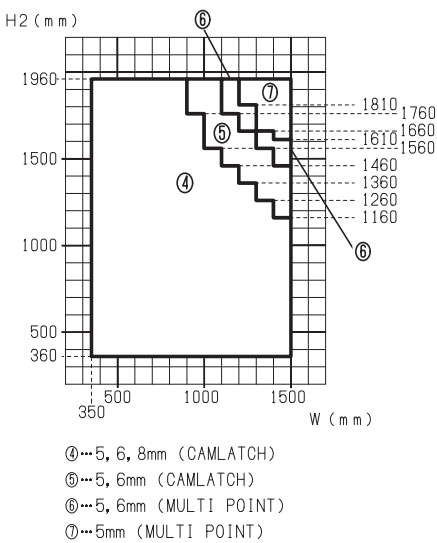
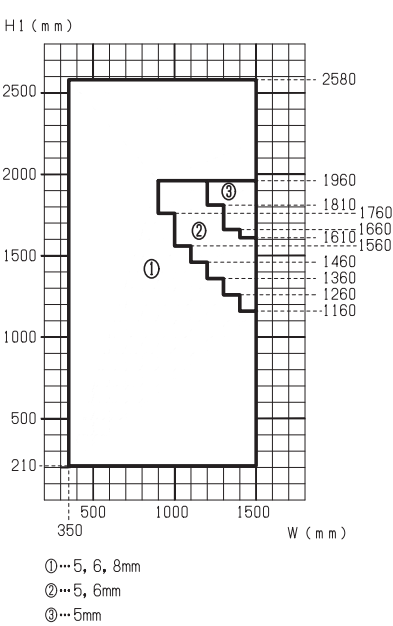
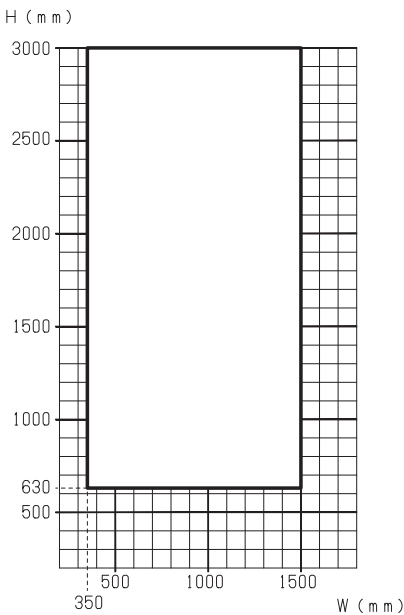


h1, h2 :  
System Order  
Dimensions

### Glass

	Glass Size	Qty	Thickness
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

### Size Limitation



TOP HUNG/FIX

PRICE LIST

---

- 1

See page **44** for the upper Top Hung
- 2

See page **32** for the lower FIX

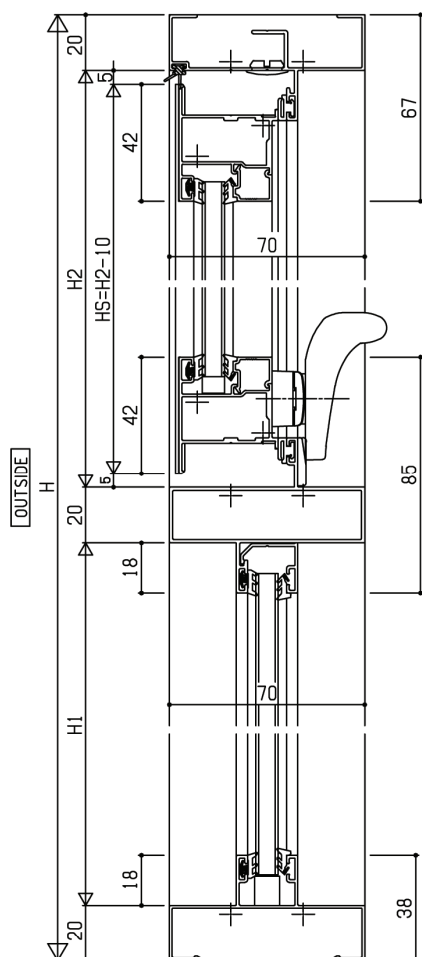
Price :

1

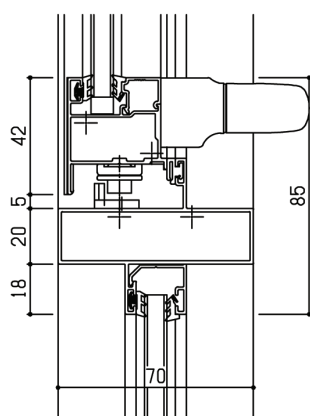
+

2

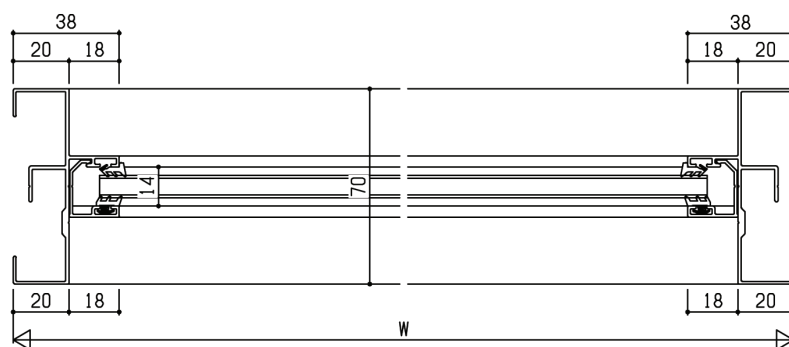
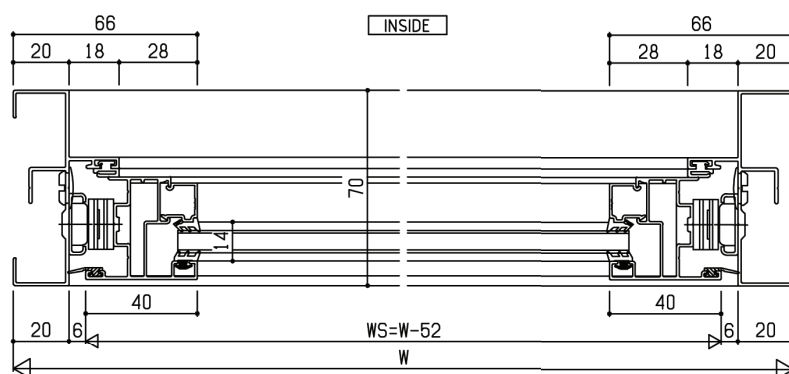
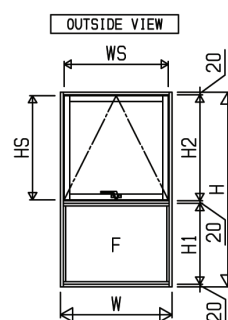
# TOP HUNG/FIX SYSTEM DRAWING



**CAMLATCH**

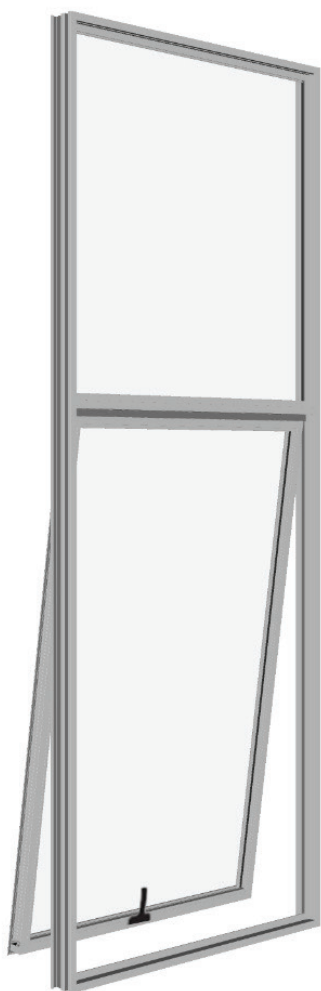


**MULTIPOINT LOCK**



**OUTSIDE**



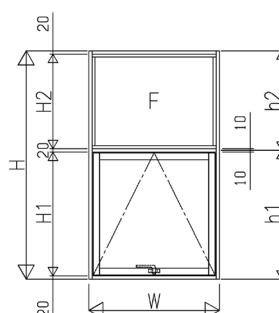


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

OUTSIDE VIEW

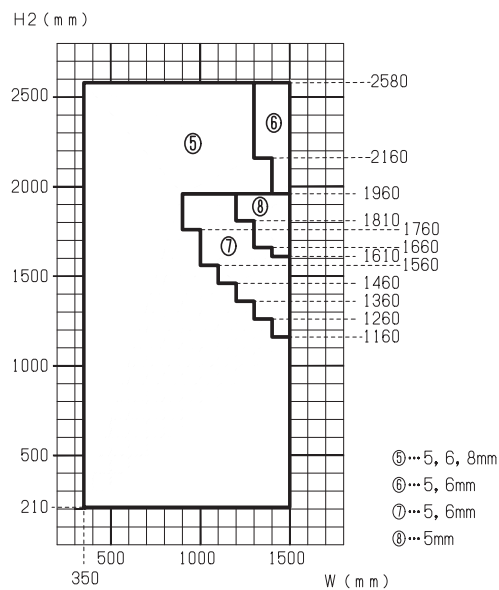
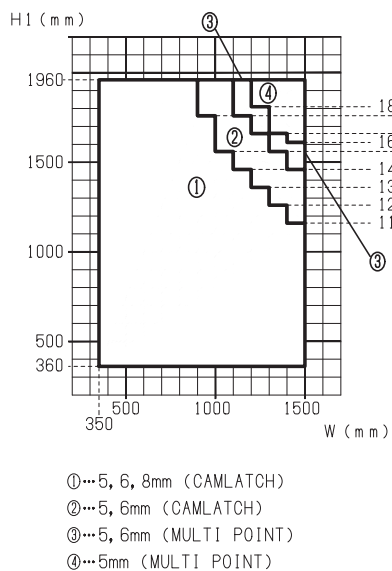
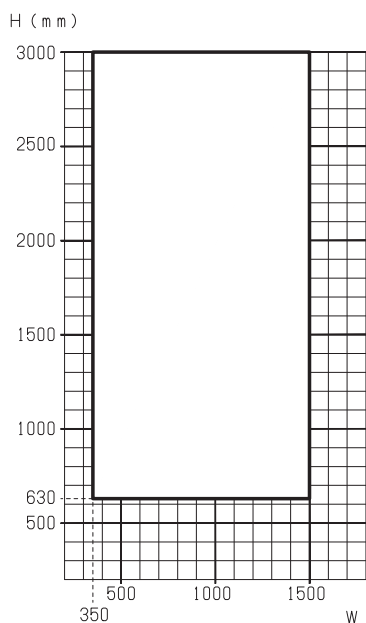


h1, h2 :  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H2-22)	1	5,6,8
TH	(W-118) × (H1-80)	1	5,6,8

## Size Limitation





FIX/TOP HUNG

PRICE LIST

---

- 1

See page **32** for the upper FIX
- 
- 2

See page **44** for the middle Top Hung
- 

Price :

1

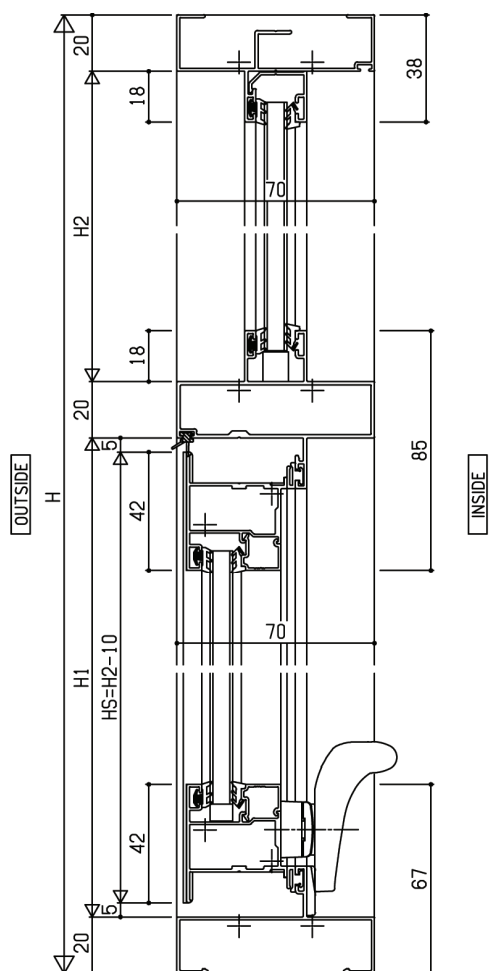
+

2

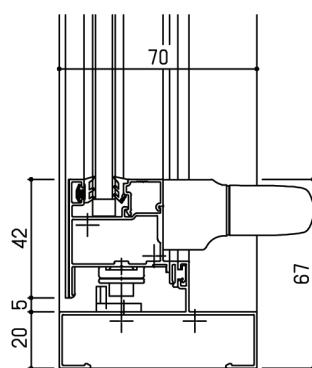
---

# FIX/TOP HUNG

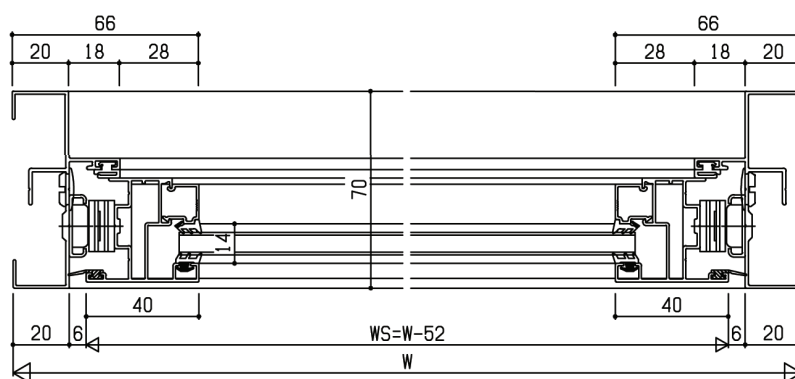
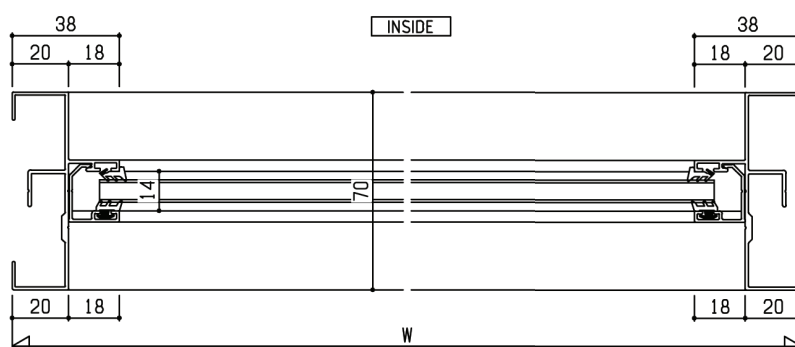
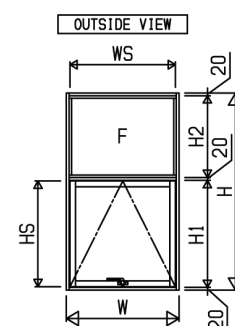
## SYSTEM DRAWING



**CAMLATCH**



**MULTIPOINT LOCK**



**OUTSIDE**

\* The handle type is automatically selected according to the size range.

Please check the size limitation graph.



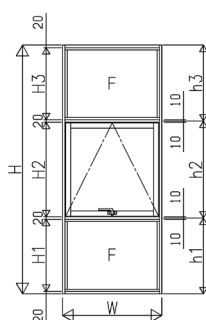


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

OUTSIDE VIEW

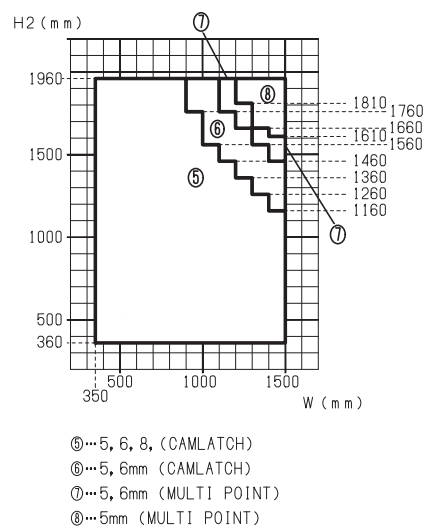
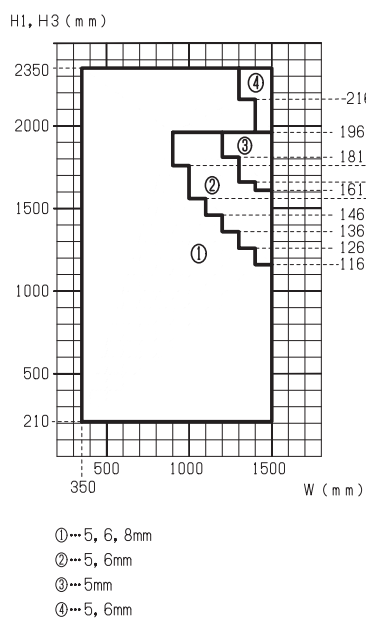
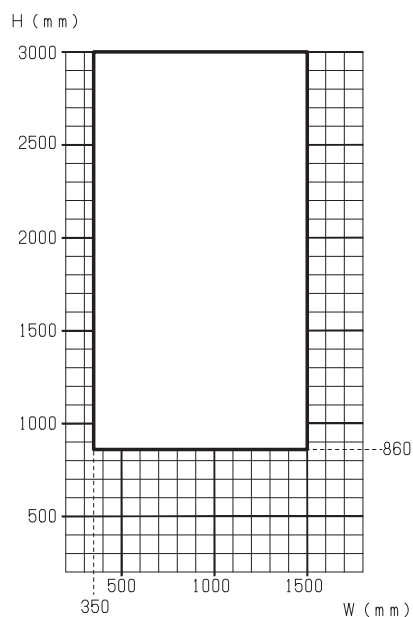


h1, h2, h3 :  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H3-22)	1	5,6,8
TH	(W-118) × (H2-80)	1	5,6,8
FIX	(W-62) × (H1-22)	1	5,6,8

## Size Limitation



# FIX/TOP HUNG/FIX

## PRICE LIST

---

- 1

See page **32** for the upper FIX
- 2

See page **44** for the middle Top Hung
- 3

See page **32** for the lower FIX

Price :

1

+

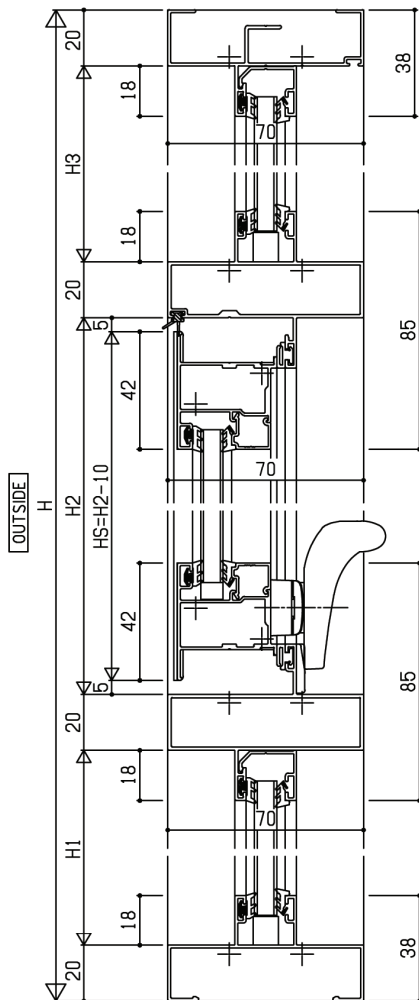
2

+

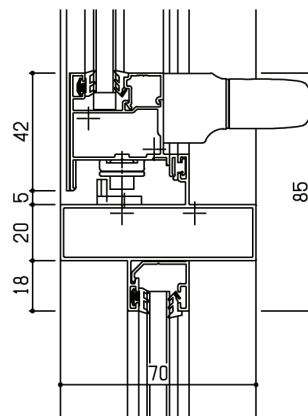
3

# FIX/TOP HUNG/FIX

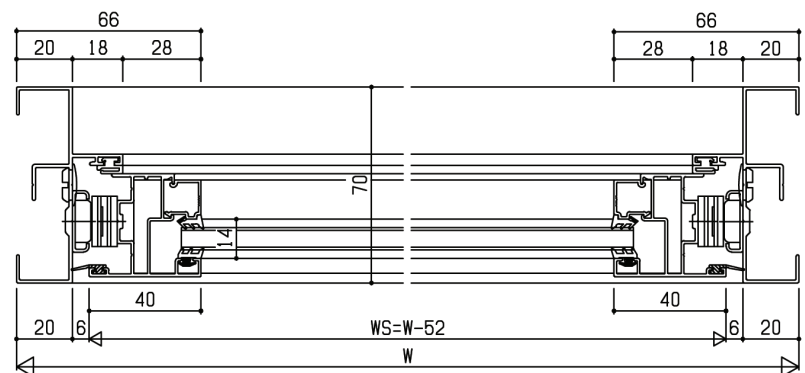
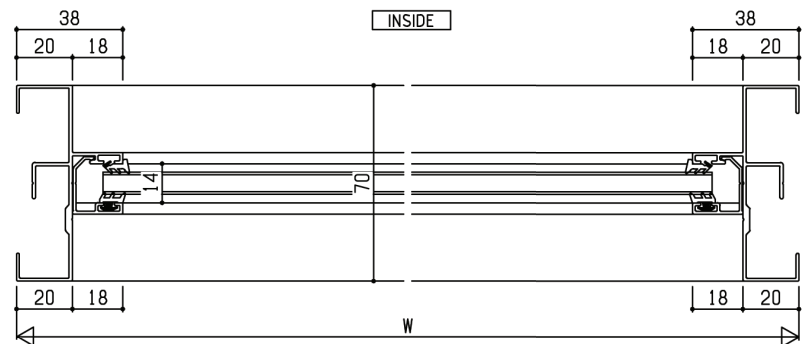
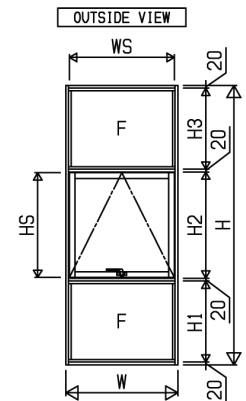
## SYSTEM DRAWING



**CAMLATCH**



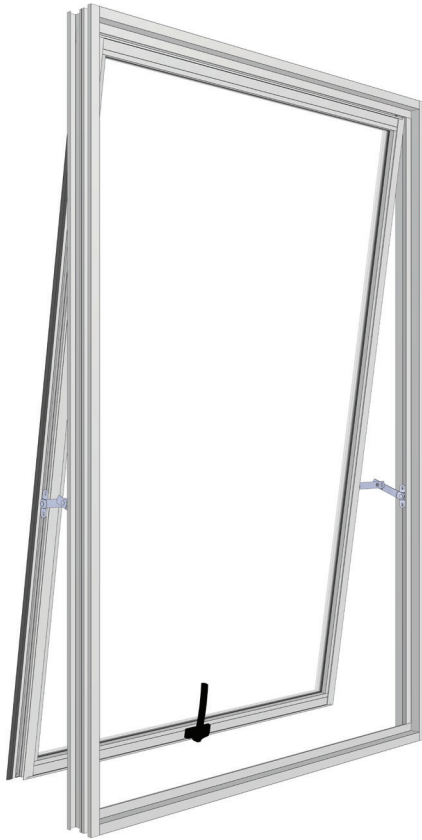
**MULTIPOINT LOCK**







## TOP HUNG (FRICTION STAYLESS)



### Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

### Specifications

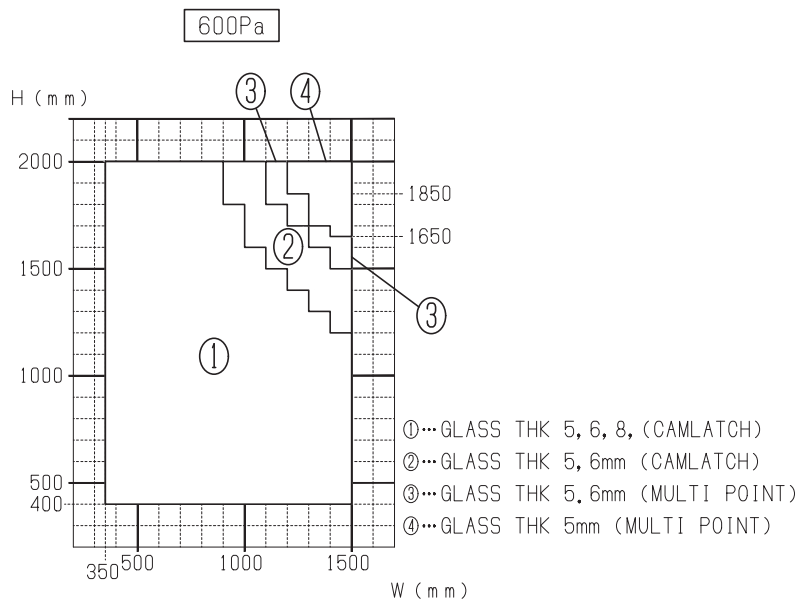
#### Selected parts :

Camlatch, Multipoint Lock

### Glass

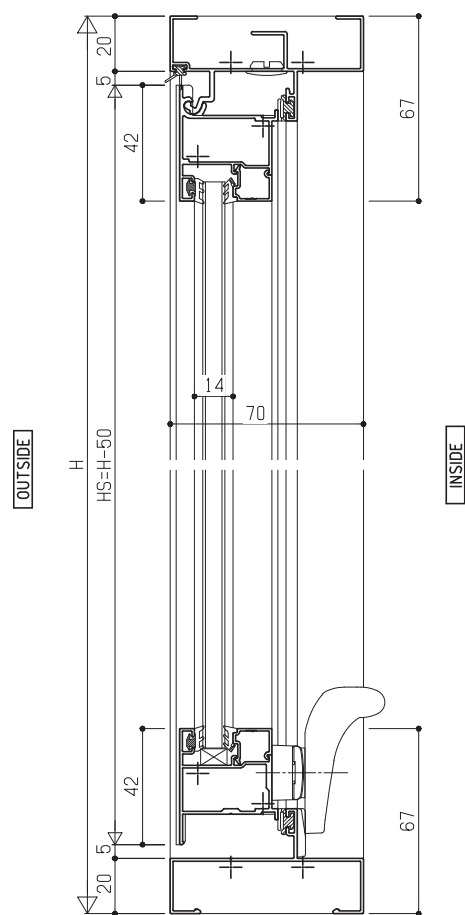
Glass Size	Qty	Thickness
(W-118)×(H-120)	1	5,6,8

### Size Limitation

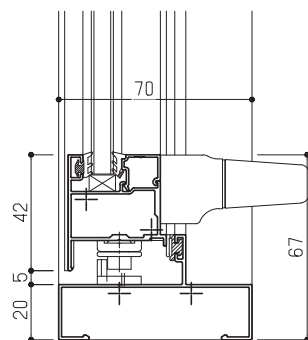


# TOP HUNG (FRICTION STAYLESS)

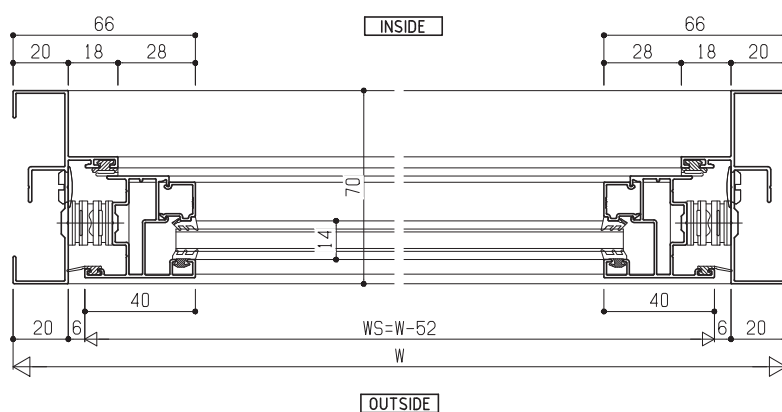
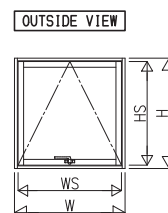
## SYSTEM DRAWING



**CAMLATCH**



**MULTIPOINT LOCK**



\*The handle type is automatically selected according to the size range..  
Please check the size limitation graph.



# TOP HUNG FRICTION STAYLESS/FIX

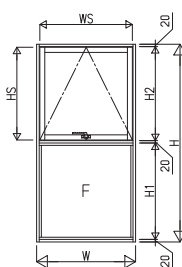


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

OUTSIDE VIEW

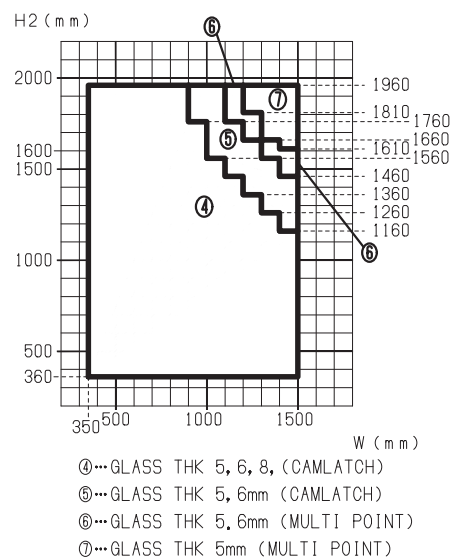
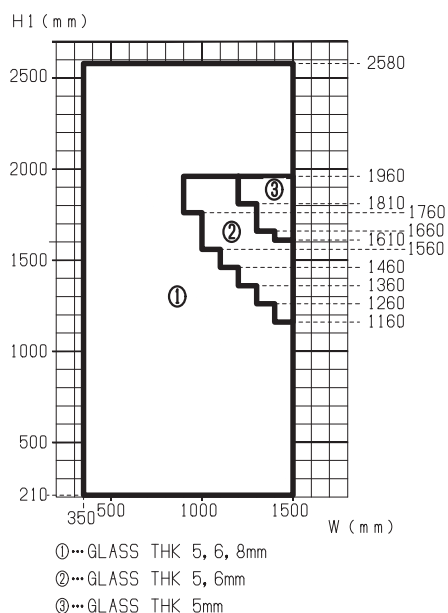
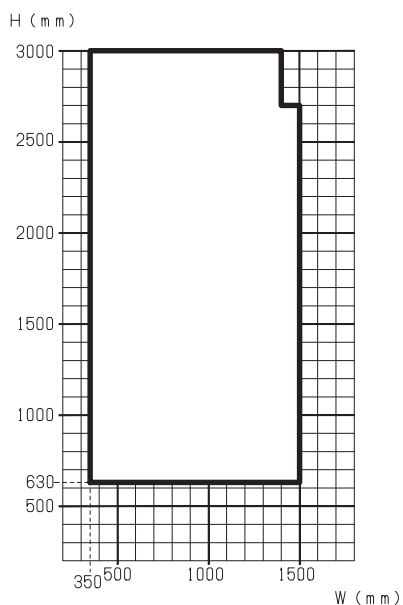


h1, h2 :  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

## Size Limitation



# TOP HUNG FRICTION STAYLESS/FIX

## PRICE LIST

- 1

See page **60** for the upper Top Hung Friction Stayless
- 2

See page **32** for the lower FIX

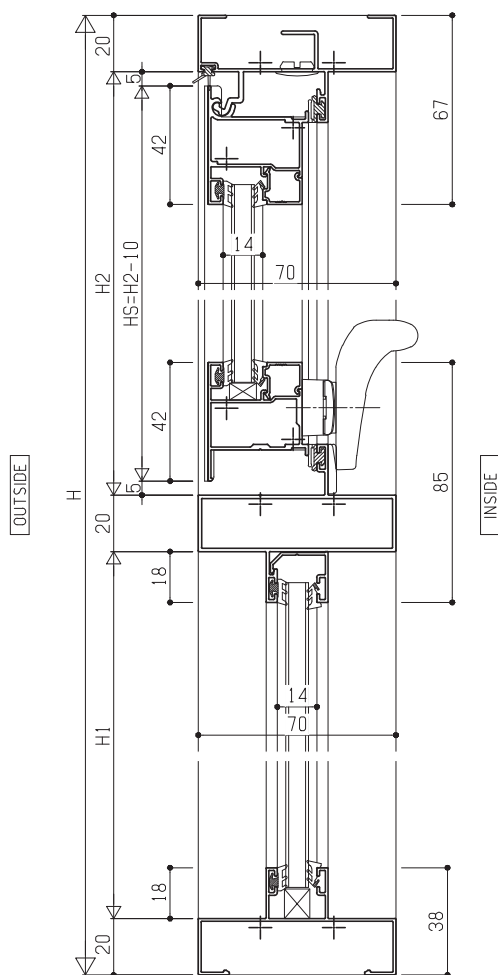
Price : 

1

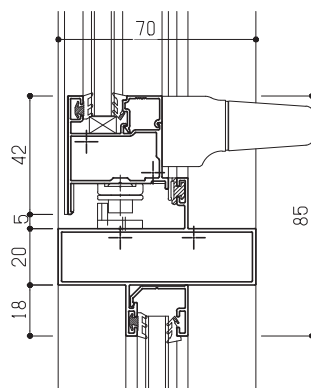
 + 

2

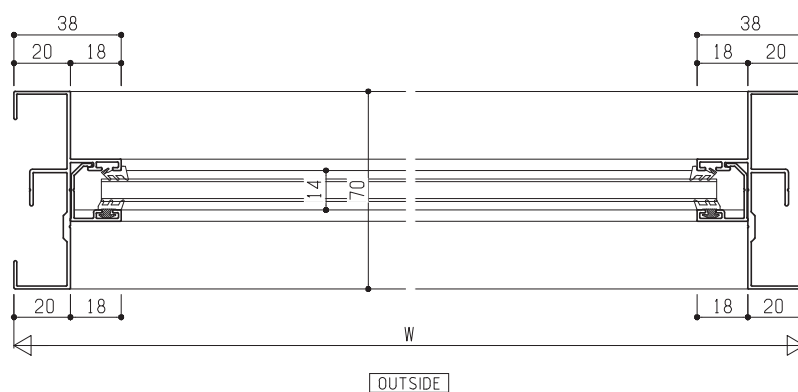
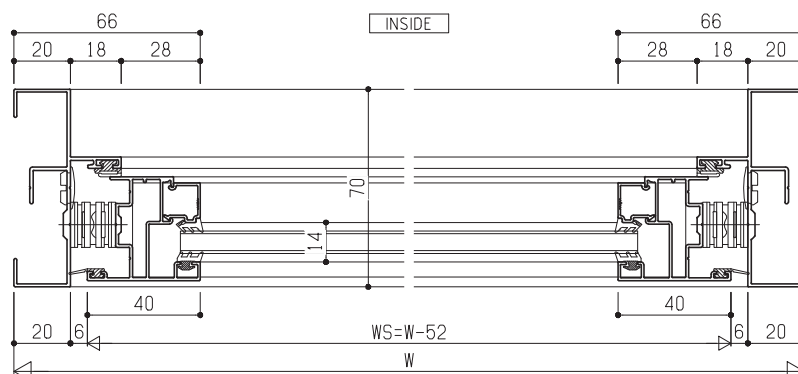
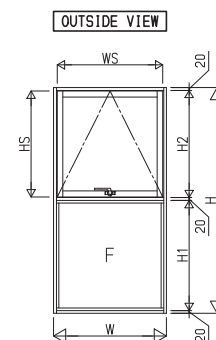
# TOP HUNG FRICTION STAYLESS/FIX SYSTEM DRAWING



**CAMLATCH**



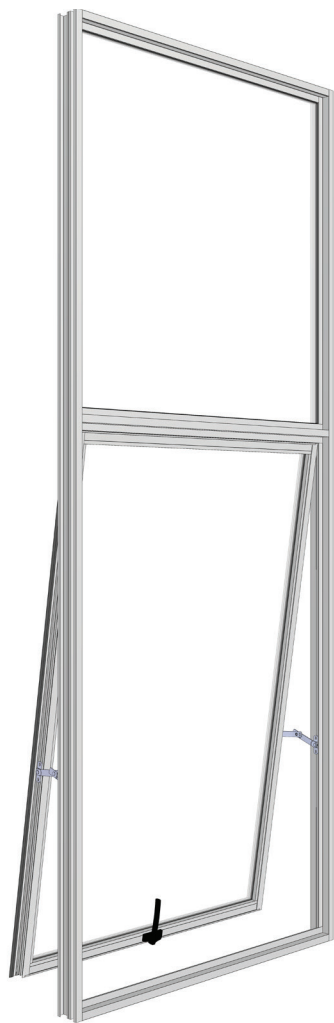
**MULTIPOINT LOCK**



\*The handle type is automatically selected according to the size range..  
Please check the size limitation graph.



# FIX/TOP HUNG FRICTION STAYLESS

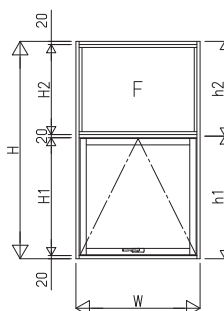


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

OUTSIDE VIEW

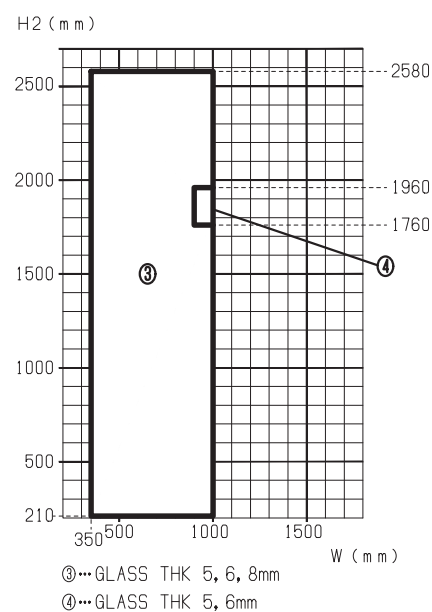
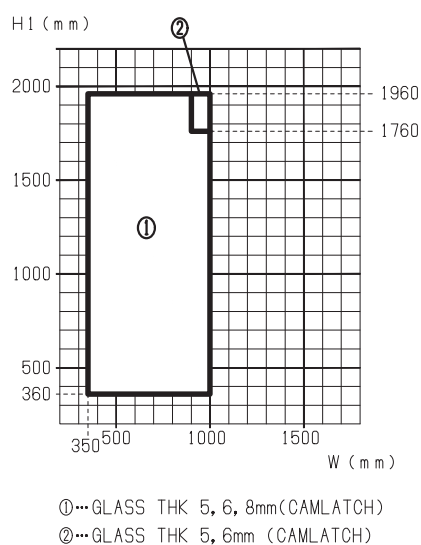
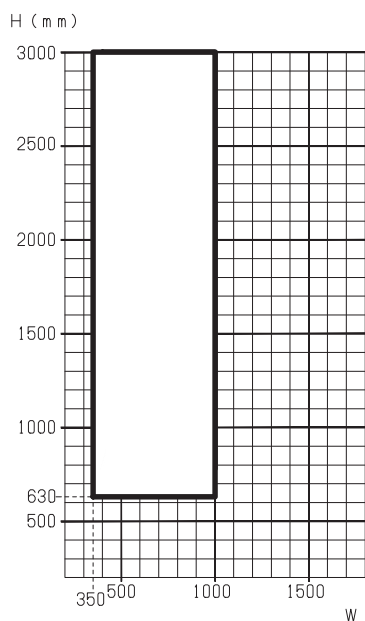


h1, h2 :  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H2-22)	1	5,6,8
TH	(W-118) × (H1-80)	1	5,6,8

## Size Limitation





## FIX/TOP HUNG FRICTION STAYLESS

### PRICE LIST

---

1 See page **32** for the upper FIX

---

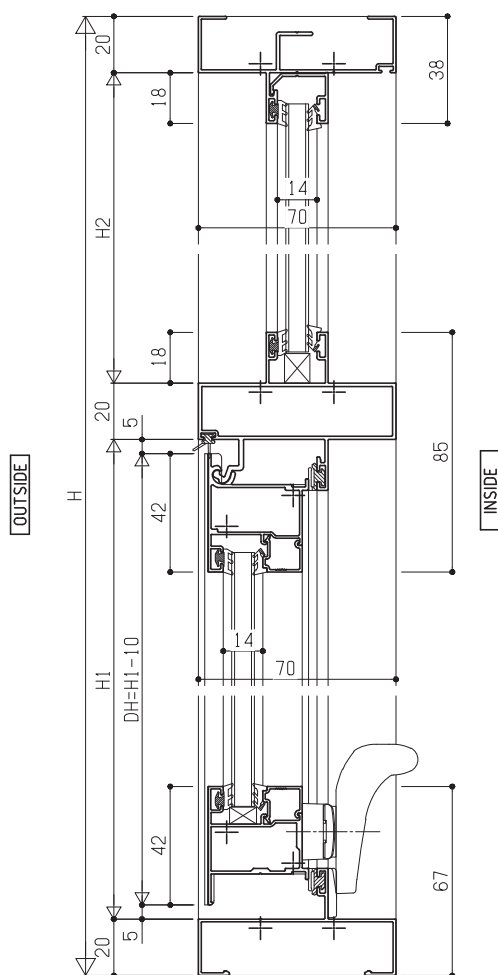
2 See page **60** for the middle Top Hung Friction Stayless

---

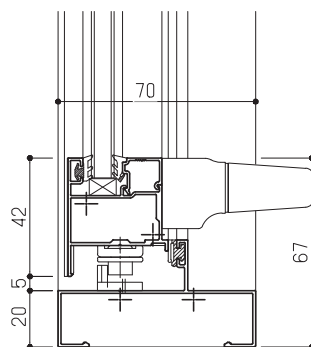
Price : 1 + 2

---

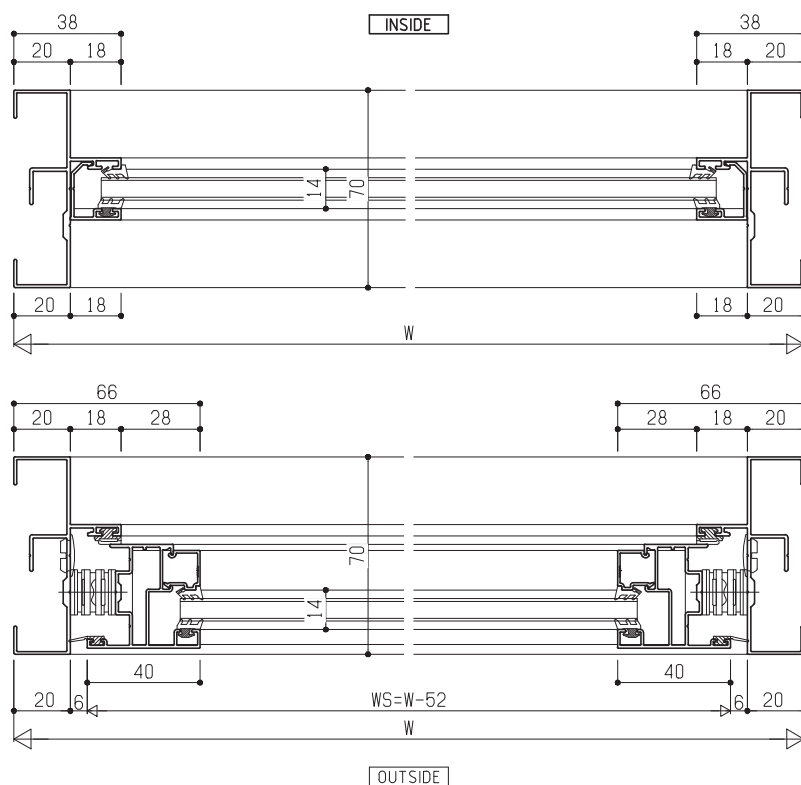
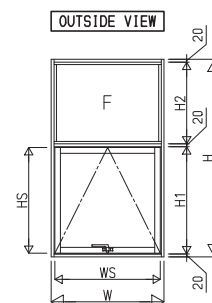
# FIX/TOP HUNG FRICTION STAYLESS SYSTEM DRAWING



**CAMLATCH**



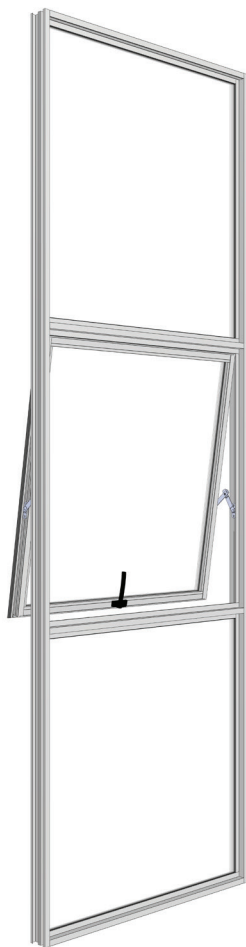
**MULTIPOINT LOCK**



\*The handle type is automatically selected according to the size range..  
Please check the size limitation graph.



# FIX/TOP HUNG FRICTION STAYLESS/FIX

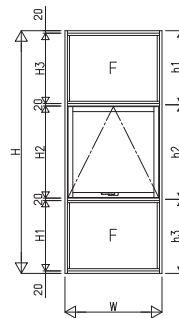


## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Standard Specification

### OUTSIDE VIEW

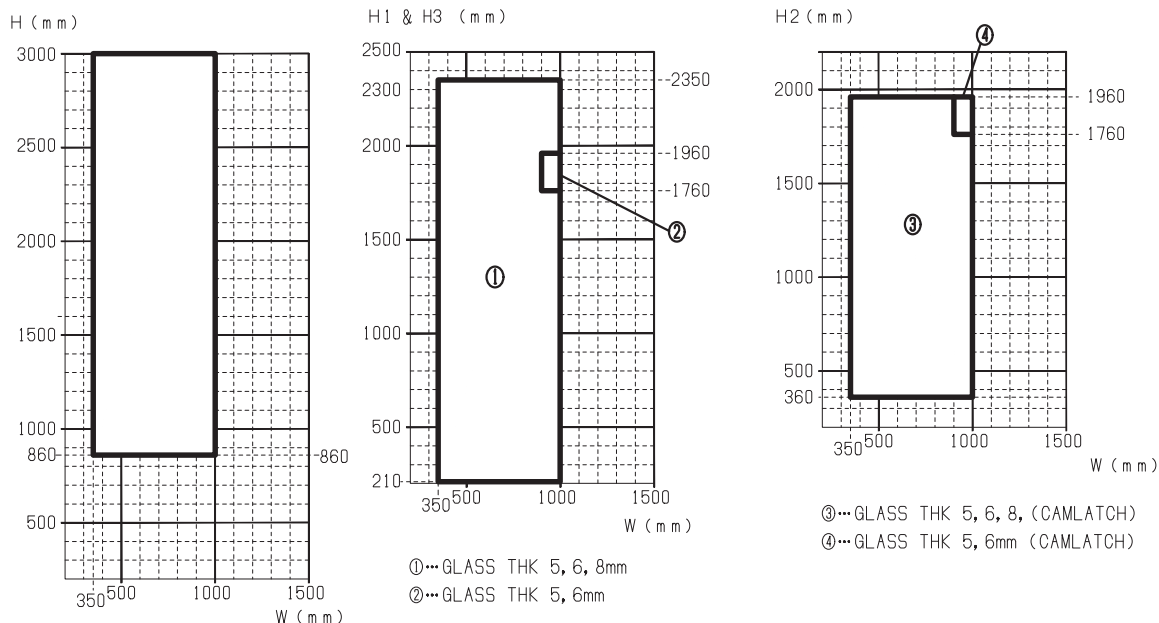


h1, h2, h3 :  
System Order  
Dimensions

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H3-22)	1	5,6,8
TH	(W-118) × (H2-80)	1	5,6,8
FIX	(W-62) × (H1-22)	1	5,6,8

## Size Limitation



# FIX/TOP HUNG FRICTION STAYLESS/FIX

## PRICE LIST

---

- 1

See page **32** for the upper FIX
- 2

See page **60** for the middle Top Hung Friction Stayless
- 3

See page **32** for the lower FIX

Price :

1

+

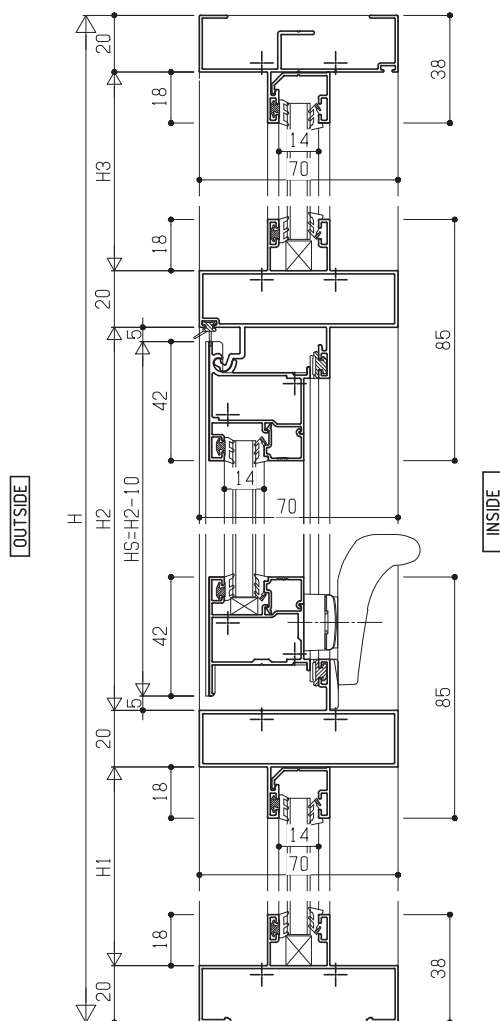
2

+

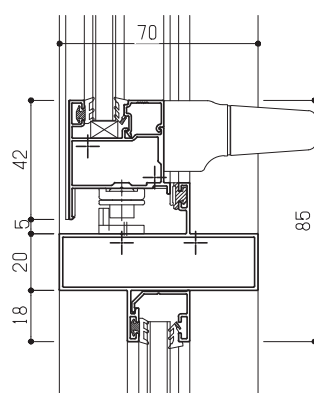
3

# FIX/TOP HUNG FRICTION STAYLESS/FIX

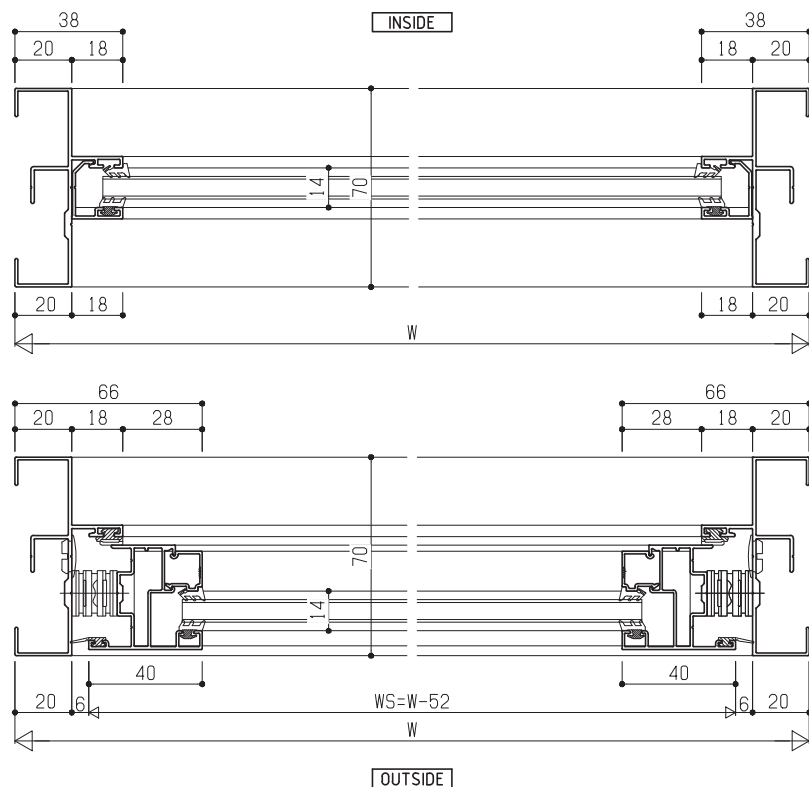
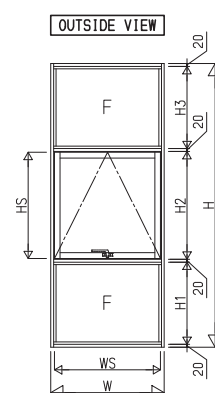
## SYSTEM DRAWING



**CAMLATCH**

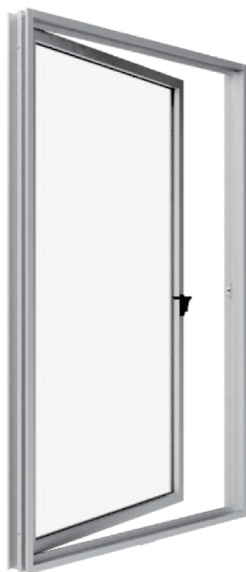


**MULTIPOINT LOCK**





# CASEMENT



## Performance

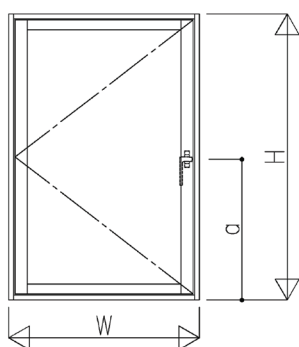
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Glass

Glass Size	Qty	Thickness
(W-140)×(H-120)	1	5,6,8

## Standard Specifications

OUTSIDE VIEW



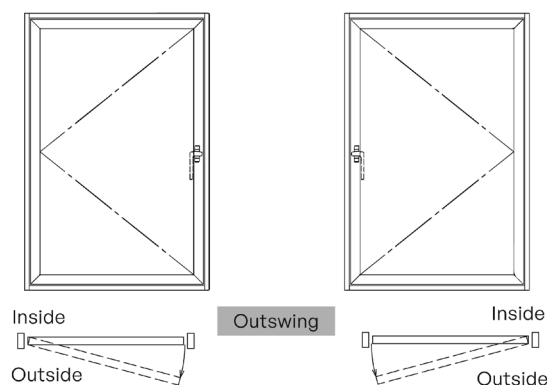
Handle Height : a  
- H/2  
- 625

## Variation

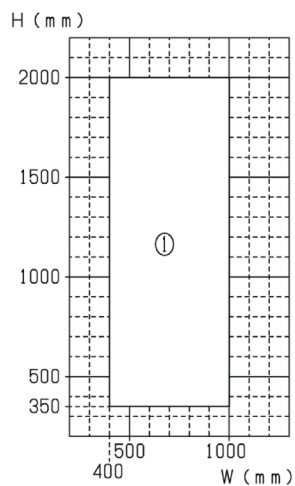
Right Swing (CAR)

Left Swing (CAL)

OUTSIDE VIEW



## Size Limitation

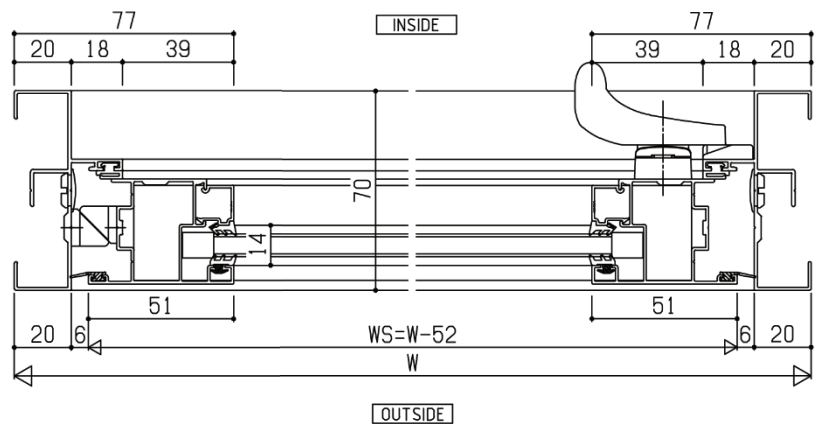
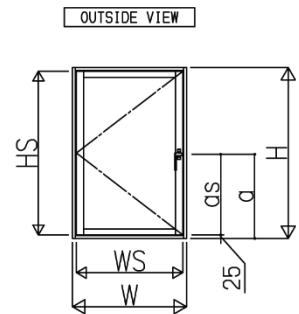
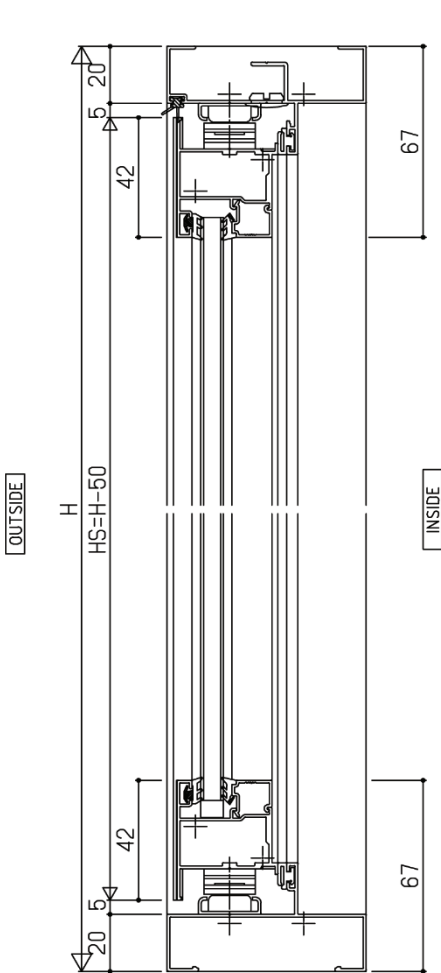


1 Camlatch



# CASEMENT

## SYSTEM DRAWING



CAMLATCH





## Performance

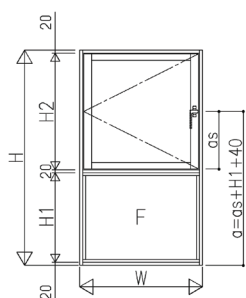
Structural (Wind Load)	600 Pa
Water Tightness	100Pa
Sound Insulation	-25 dB

## Glass

	Glass Size	Qty	Thickness
CA	(W-140)×(H2-80)	1	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

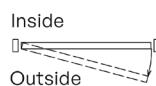
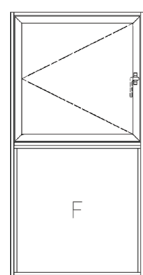
## Standard Specifications

### OUTSIDE VIEW

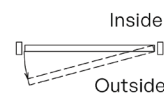
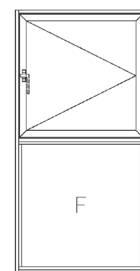


Handle Height : as  
- H2/2  
- 600

### Right Swing (CAR/FIX)



### Left Swing (CAL/FIX)

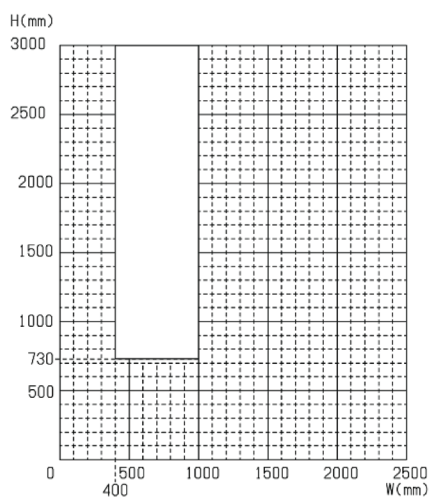


### OUTSIDE VIEW

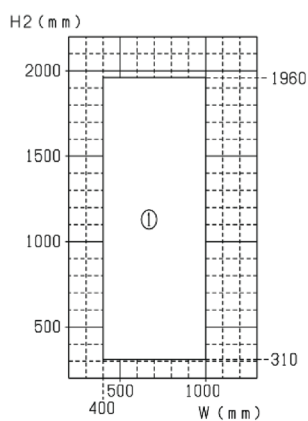
Outswing

## Size Limitation

### WH size



### H2 size



1 Camlatch

### H1 size

$360 \leq H1 \leq 2580$

# CASEMENT/FIX

## PRICE LIST

---

- 1

See page **60** for the Casement
- 2

See page **32** for the lower FIX

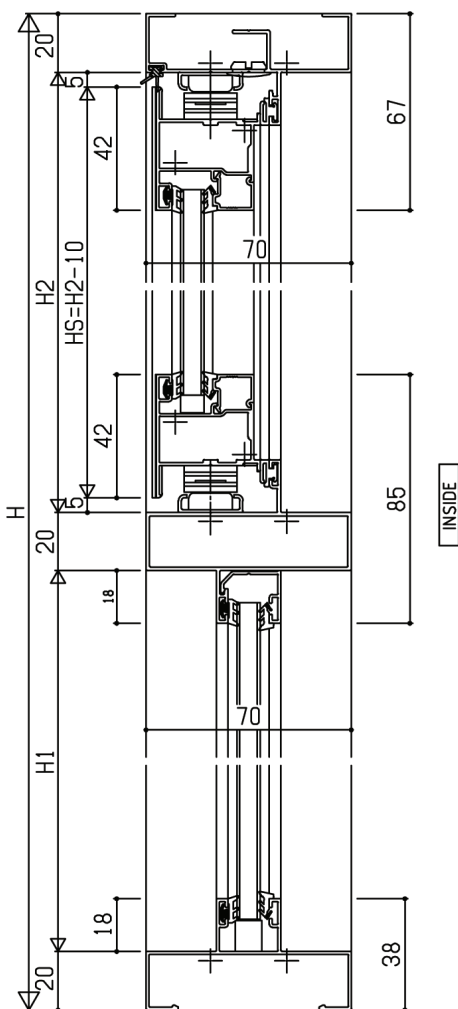
Price : 

1

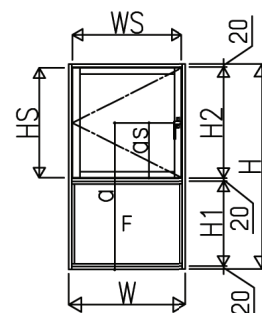
 + 

2

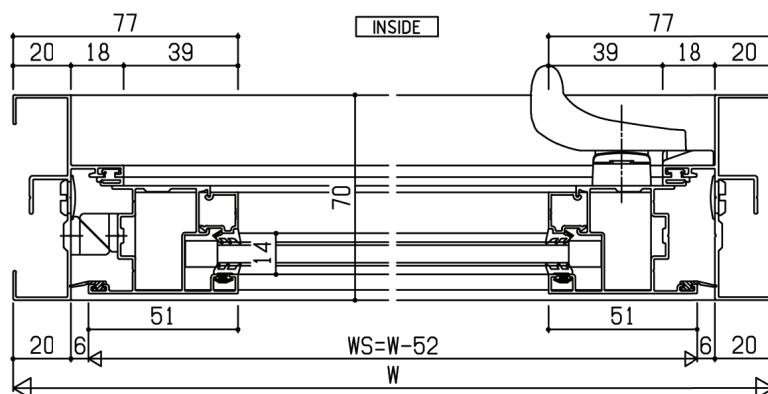
OUTSIDE



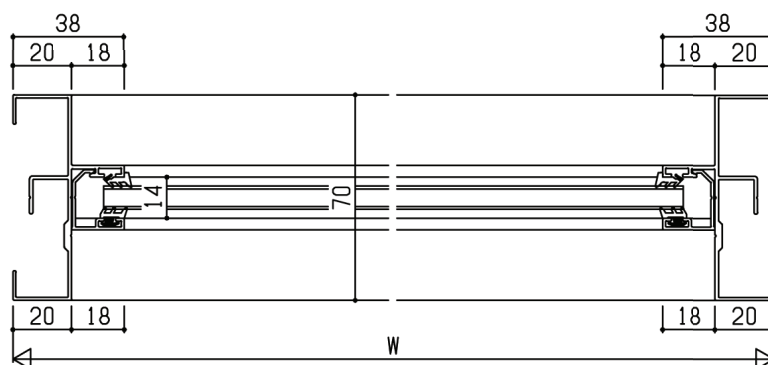
## OUTSIDE VIEW



INSIDE

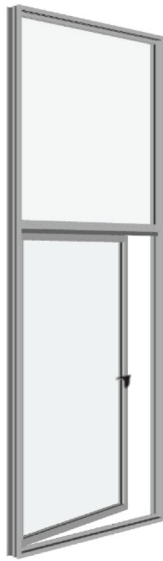


## CAMLATCH



OUTSIDE





## Performance

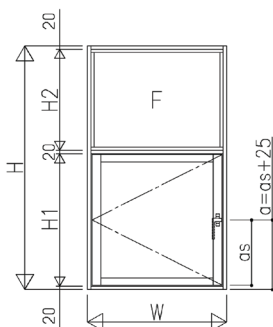
Structural (Wind Load)	600Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H2-22)	1	5,6,8
CA	(W-140) × (H1-80)	1	5,6,8

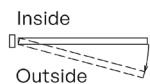
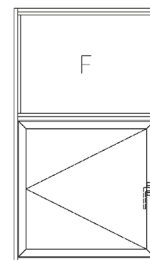
## Standard Specifications

OUTSIDE VIEW

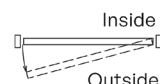
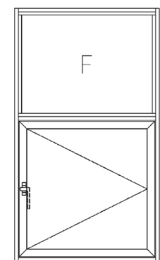


Handle Height : as  
- H1/2  
- 600

Right Swing (FIX/CAR)



Left Swing (FIX/CAL)

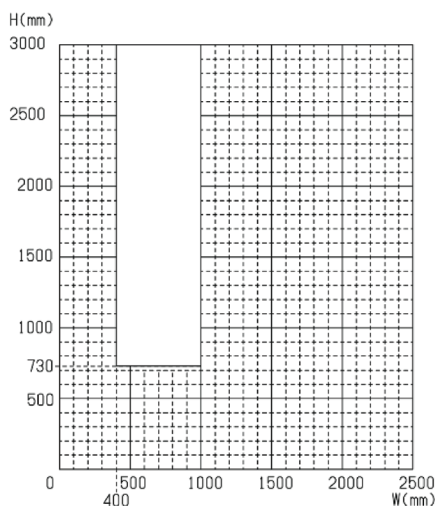


OUTSIDE VIEW

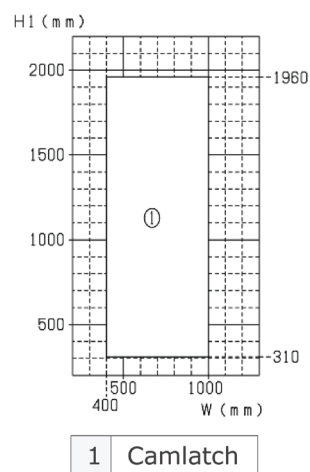
Outswing

## Size Limitation

WH size



H1 size



H2 size

$$360 \leq H2 \leq 2580$$

FIX/CASEMENT

PRICE LIST

---

- 1

See page **32** for the upper FIX
- 
- 2

See page **60** for the lower Casement
- 

Price :

1

+

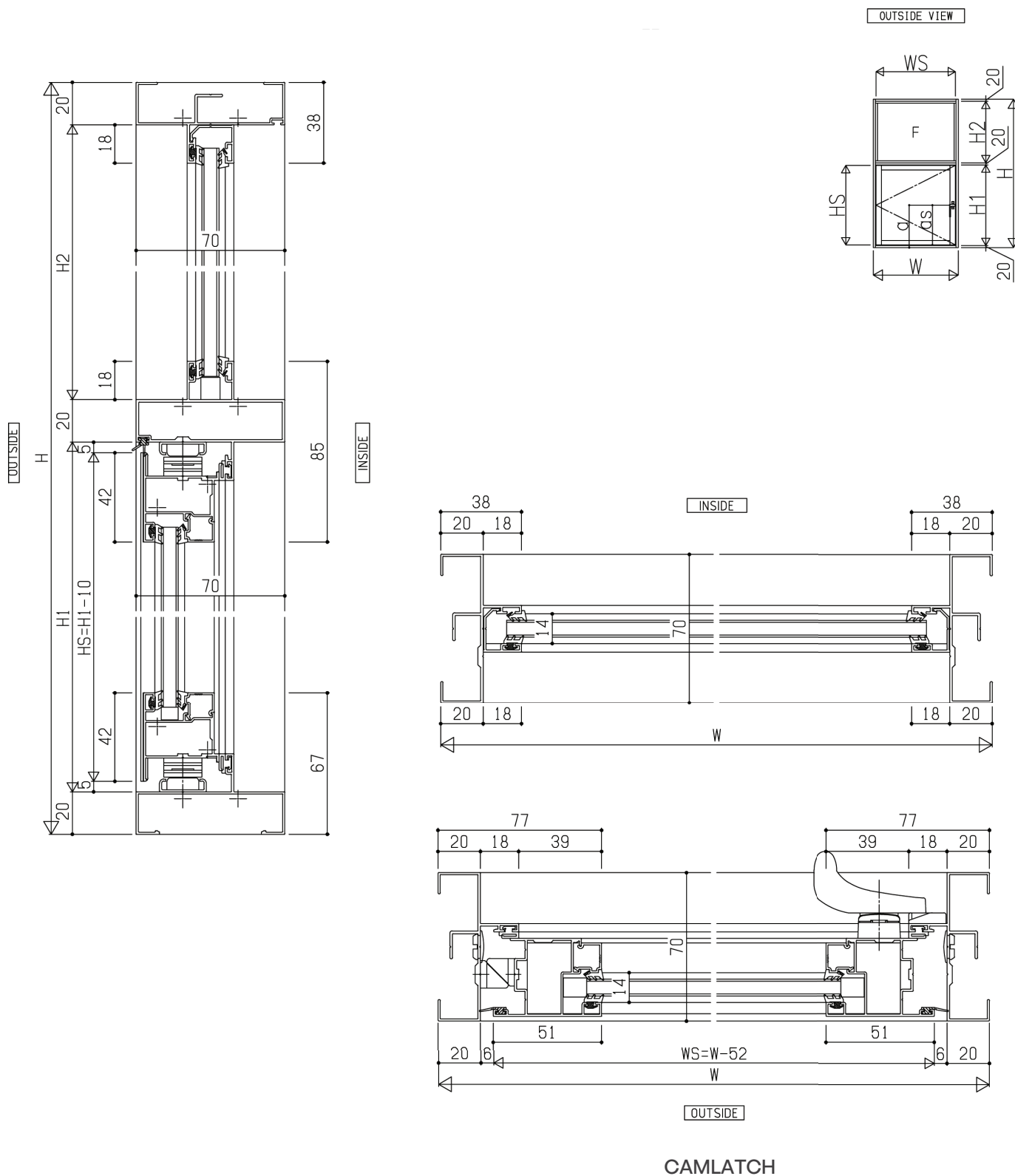
2

---



# FIX/CASEMENT

## SYSTEM DRAWING







## Performance

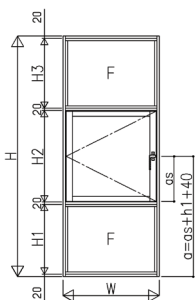
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## Glass

	Glass Size	Qty	Thickness
FIX	(W-62) × (H3-22)	1	5,6,8
CA	(W-140) × (H2-80)	1	5,6,8
FIX	(W-62) × (H1-22)	1	5,6,8

## Standard Specifications

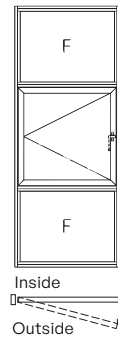
OUTSIDE VIEW



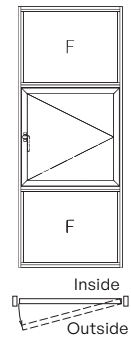
Handle Height : as  
- H2/2  
- 600

## Variation

Right Swing (FIX/CAR/FIX)

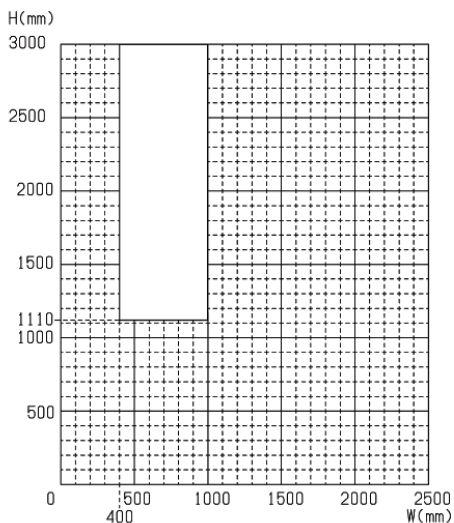


Left Swing (FIX/CAL/FIX)

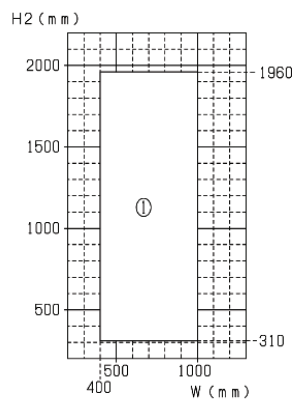


## Size Limitation

WH size



H2 size



H1, H3 size

$$360 \leq H3 \leq 2200$$

$$360 \leq H1 \leq 2200$$

1 Camlatch

# FIX/CASEMENT/FIX

## PRICE LIST

---

- 1

See page **32** for the upper FIX
- 2

See page **60** for the middle Casement
- 3

See page **32** for the lower FIX

Price :

1

+

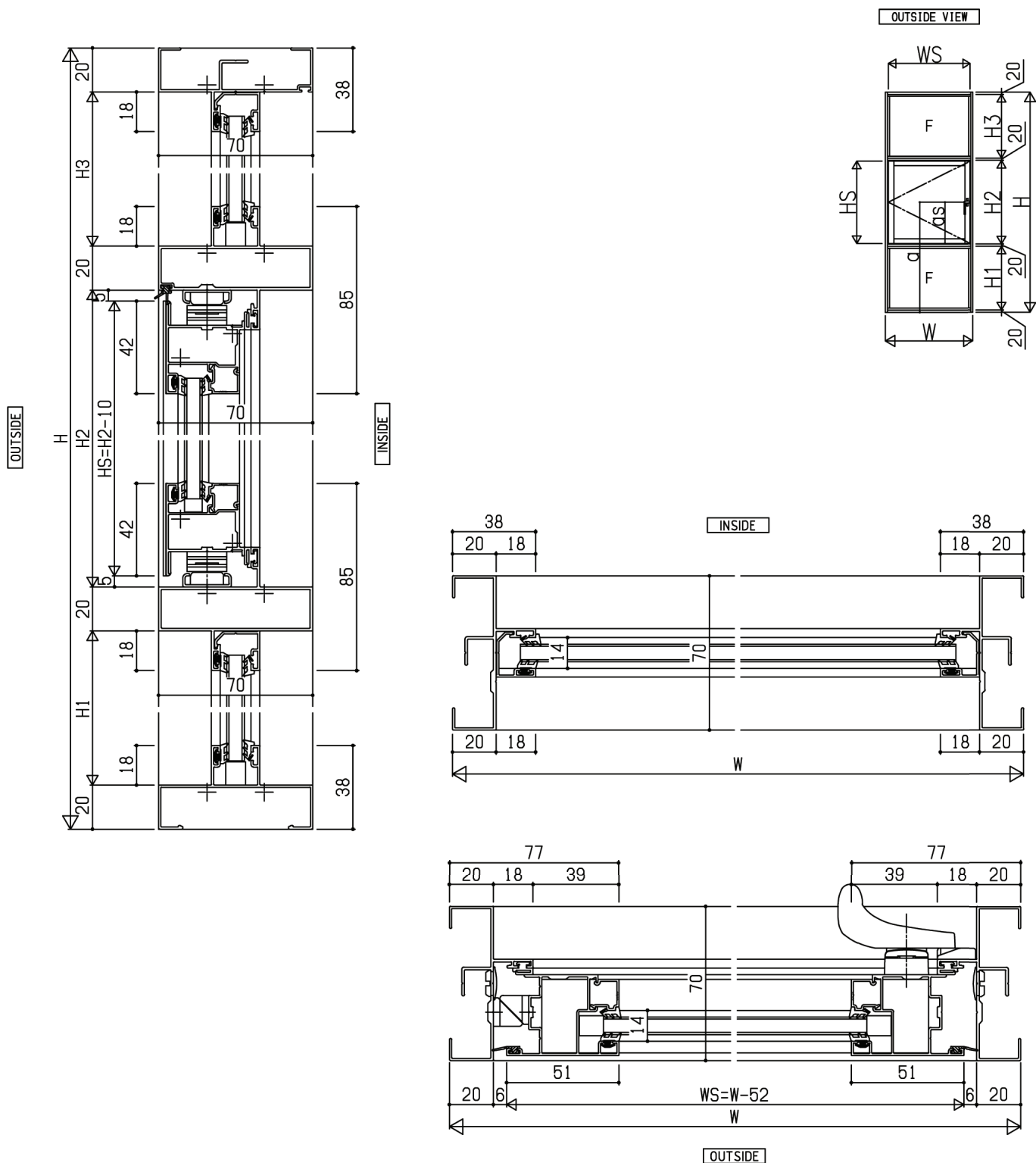
2

+

3

# FIX/CASEMENT/FIX

## SYSTEM DRAWING



**CAMLATCH**



# DOOR (WITHOUT SILL)



Without Sill  
With Handle set

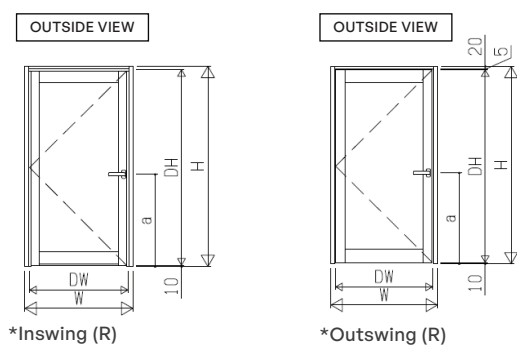
## Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

## Glass

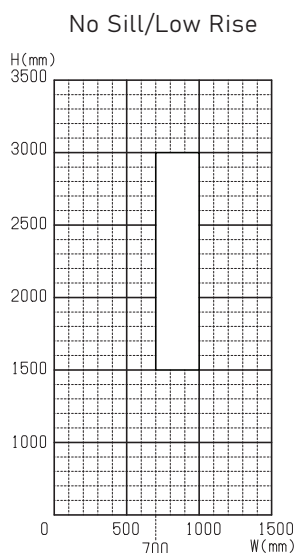
Glass Size	Qty	Thickness
(W-199)(H-221)	1	5,6,8

## Standard Specifications



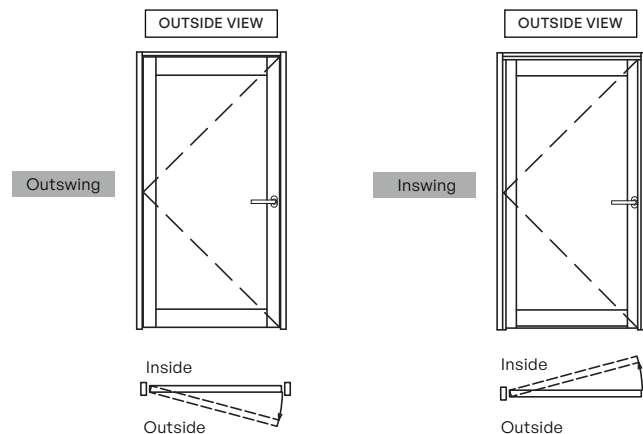
Handle Height : a = 1000

## Size Limitation

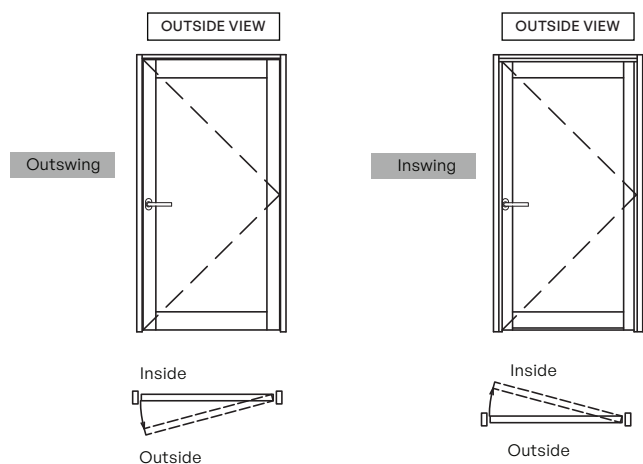


## Variation

### Right Swing (DOOR-CR)



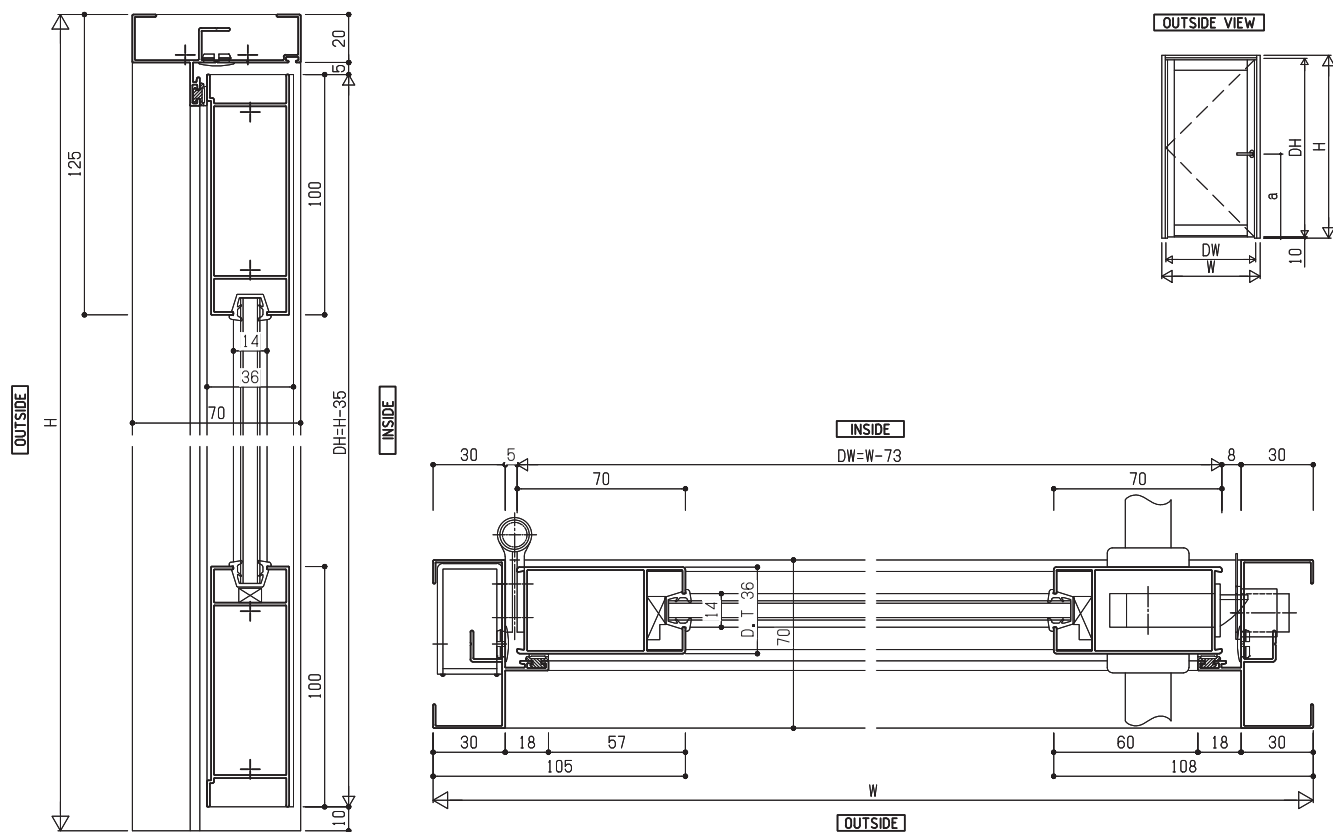
### Left Swing (DOOR-CL)



# DOOR (WITHOUT SILL)

## SYSTEM DRAWING

### INSWING

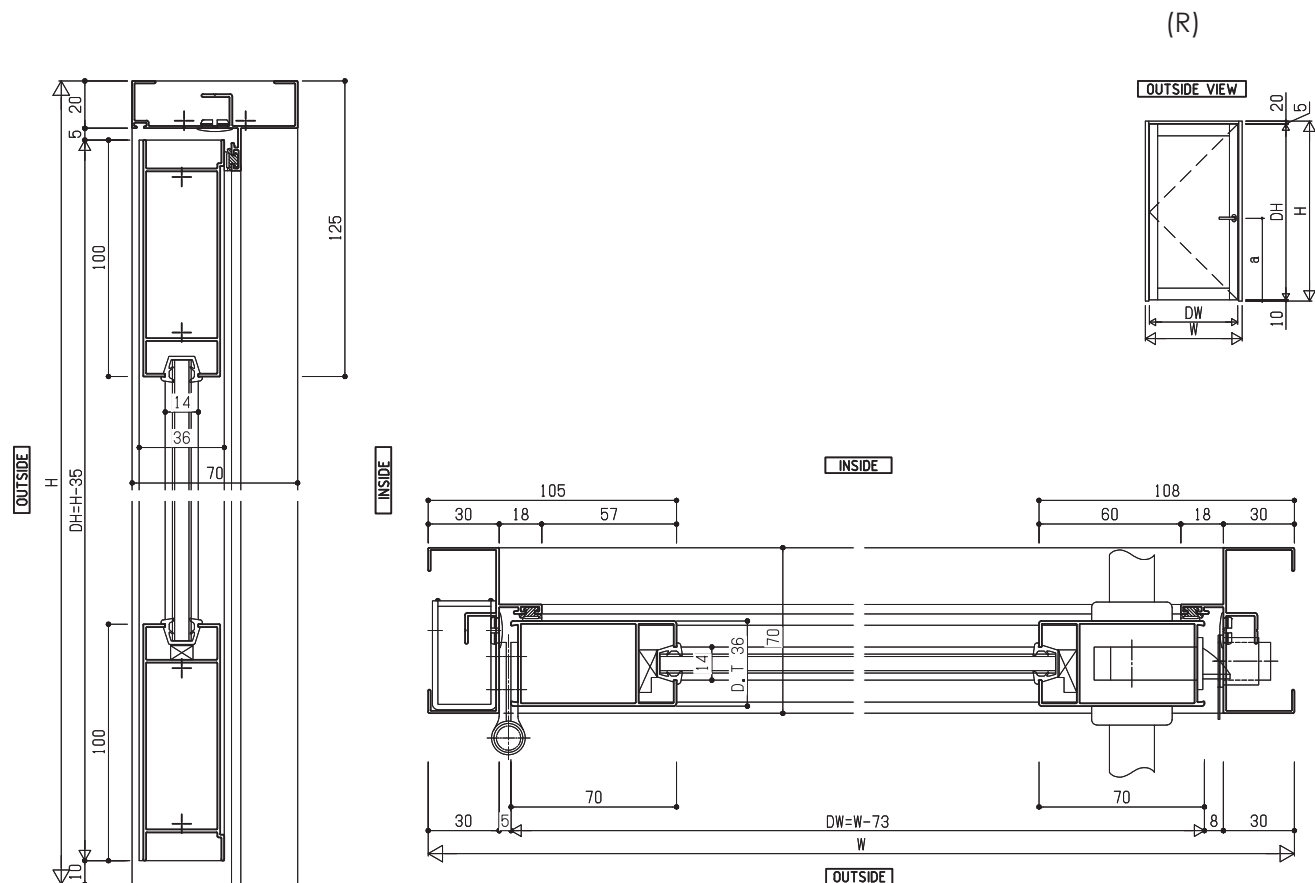




# DOOR (WITHOUT SILL)

## SYSTEM DRAWING

### OUTSWING



# FIX/DOOR (WITHOUT SILL)



Without Sill  
With Handle set

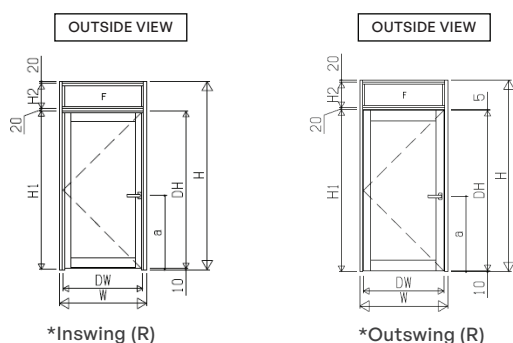
## Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

## Glass

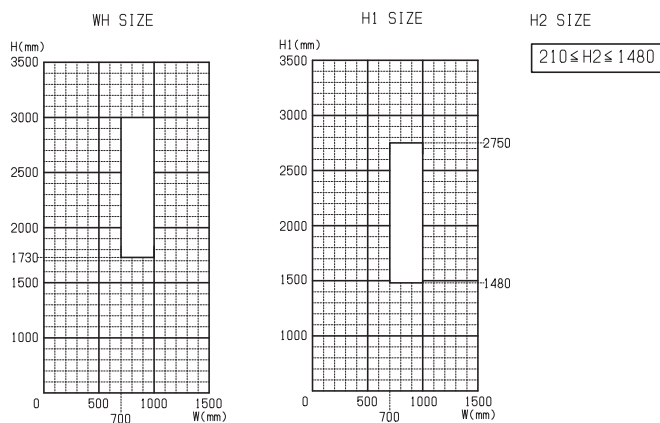
	Glass Size	Qty	Thickness
Door	(W-199)(H1-201)	1	5,6,8
FIX	(W-82)(H2-22)	1	5,6,8

## Standard Specifications



Handle Height : a = 1000

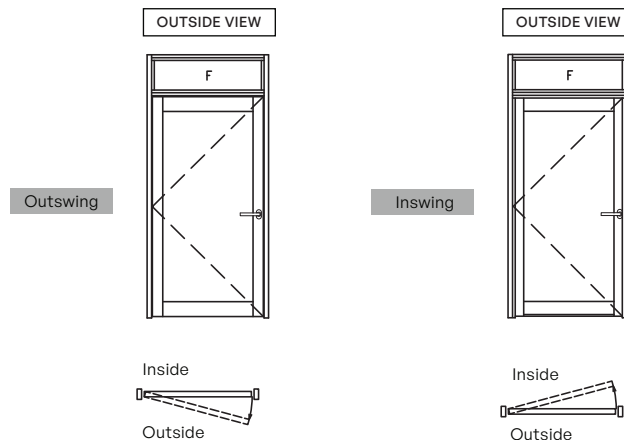
## Size Limitation



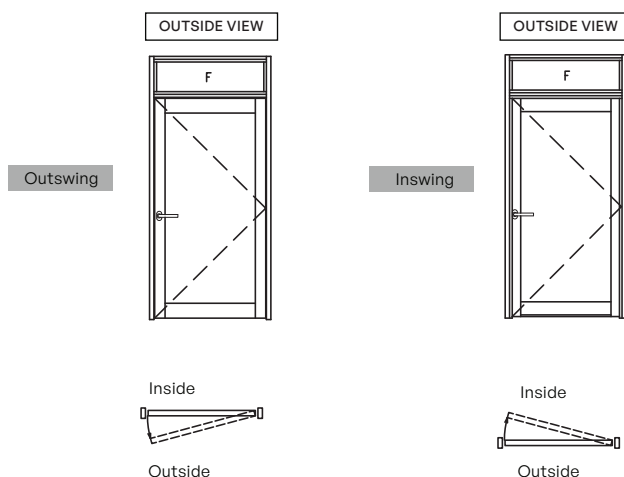
- \*Glass 5, 6, 8mm THK
- \*It isn't limited by strength. This is a standard size.

## Variation

### Right Swing (FIX/DOOR-CR)



### Left Swing (FIX/DOOR-CL)



## FIX/DOOR (WITHOUT SILL)

### PRICE LIST

---

1 See page **32** for the upper FIX

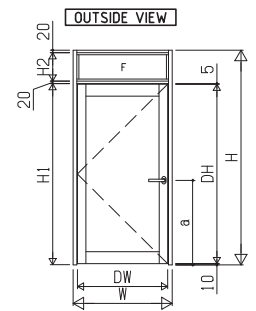
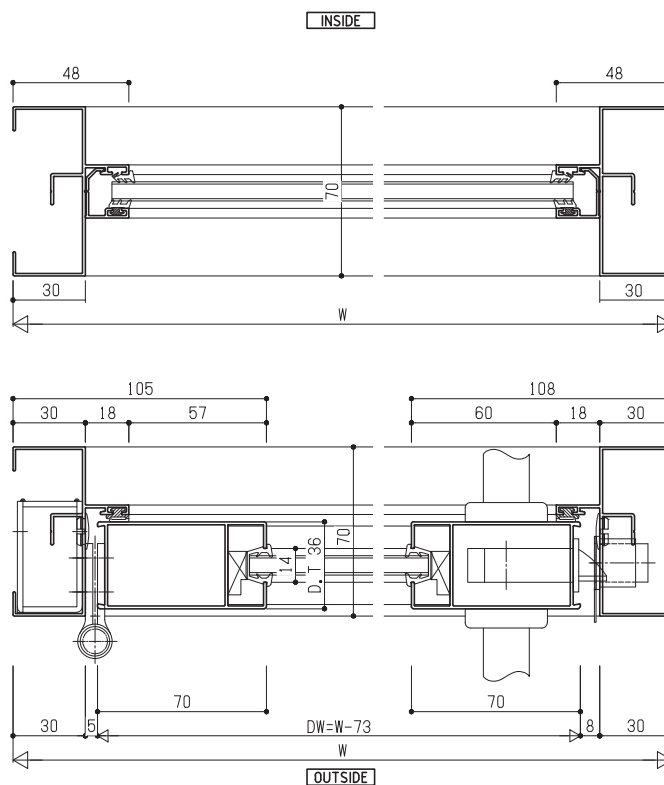
---

2 See page **91** for the lower Door

---

Price : 1 + 2

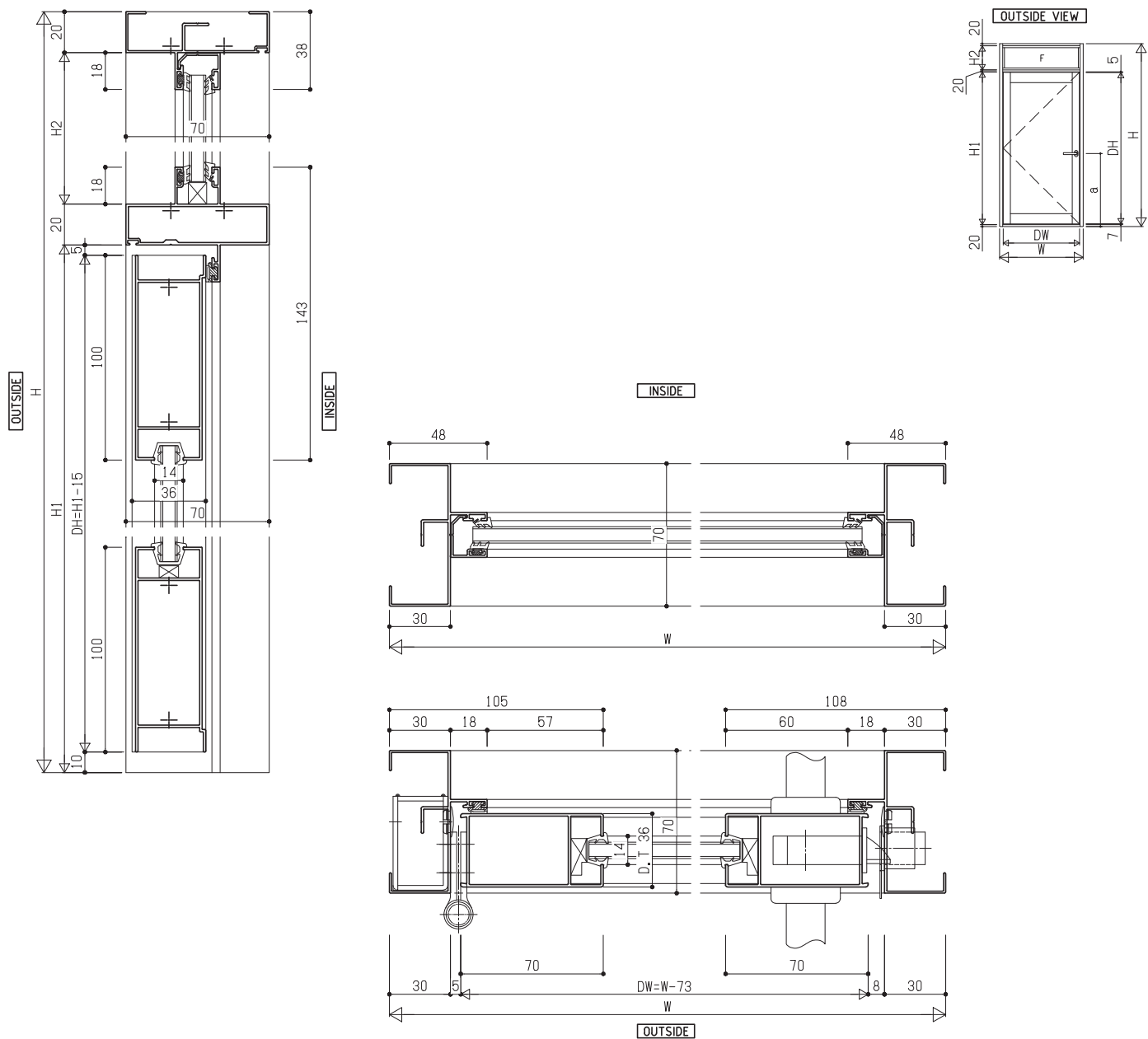
## SYSTEM DRAWING

[illegible]

# FIX/DOOR (WITHOUT SILL)

## SYSTEM DRAWING

### OUTSWING



# DOUBLE DOOR (WITHOUT SILL)



Without Sill  
With Handle set

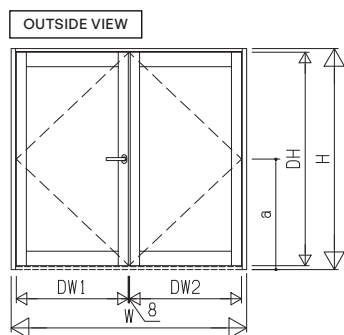
## Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

## Glass

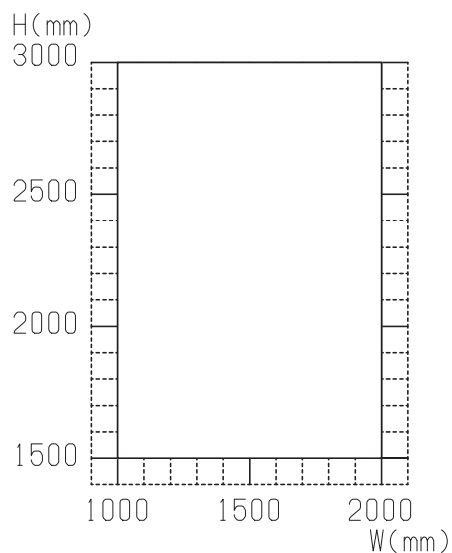
	Glass Size	Qty	Thickness
Door	(W/2-165)(H1-221)	1	5,6,8

## Standard Specifications

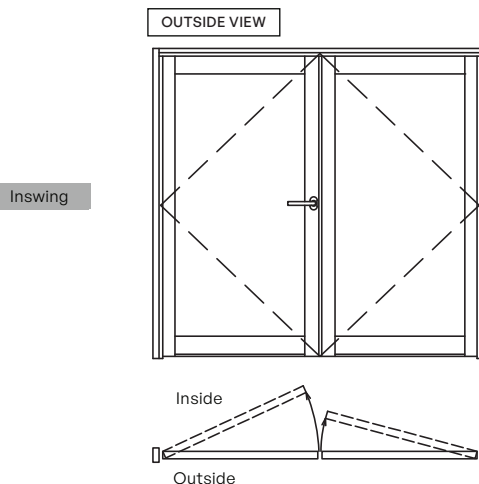


Handle Height : a = 1000

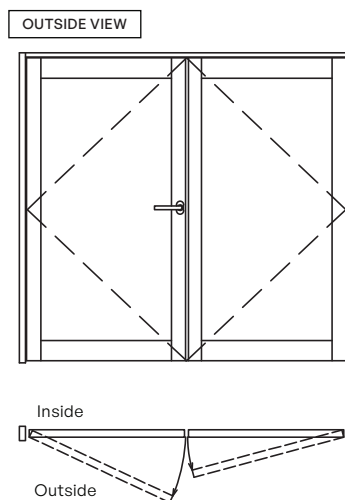
## Size Limitation



## Variation



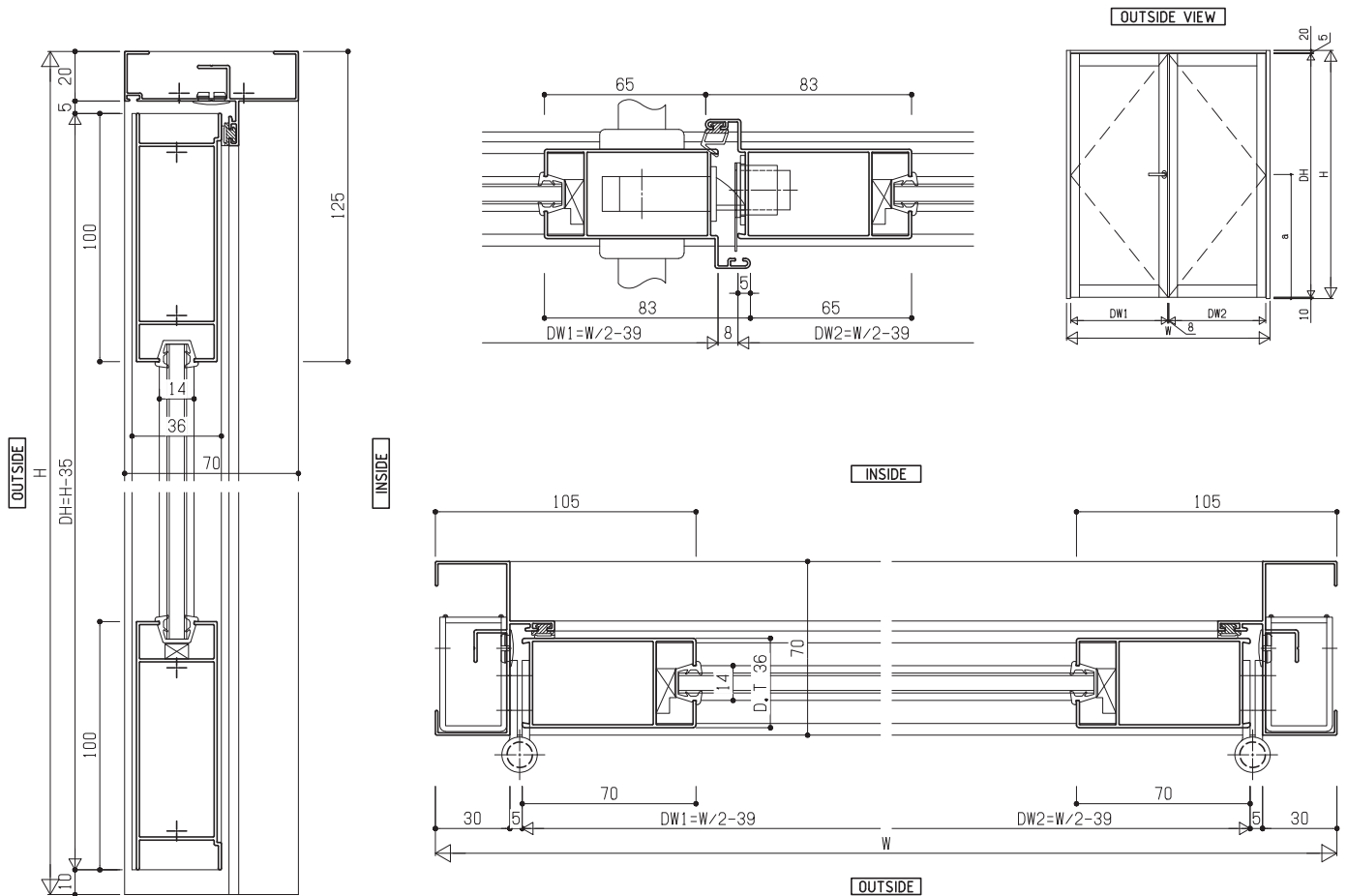
Outswing



**IN SWING**

# DOUBLE DOOR (WITHOUT SILL) SYSTEM DRAWING

## OUTSWING





# FIX/DOUBLE DOOR (WITHOUT SILL)



Without Sill  
With Lockset

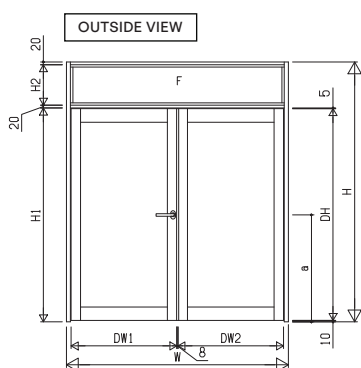
## Performance

Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

## Glass

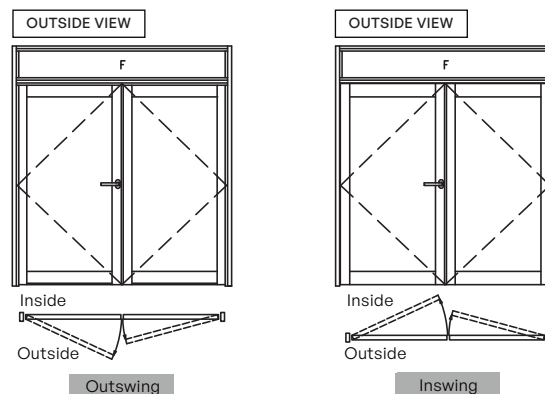
	Glass Size	Qty	Thickness
Door	(W/2-165)(H1-201)	1	5,6,8
FIX	(W-82)(H2-22)	1	5,6,8

## Standard Specifications

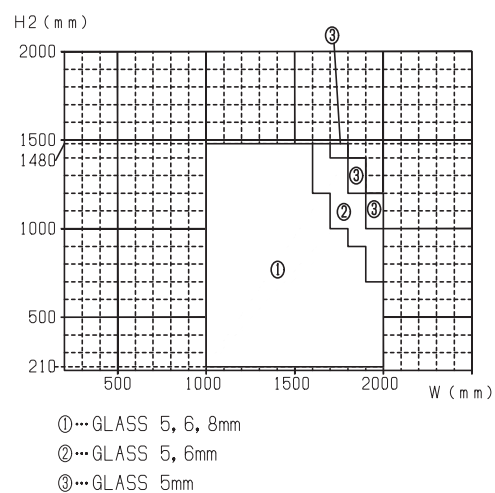
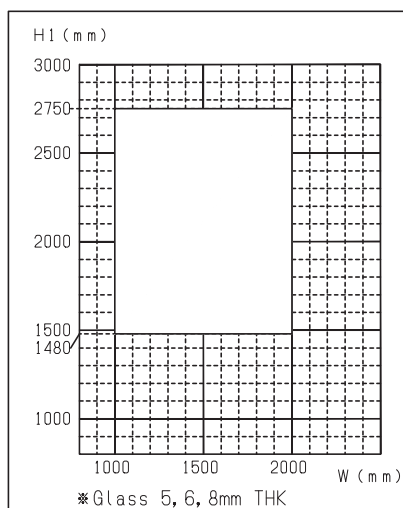
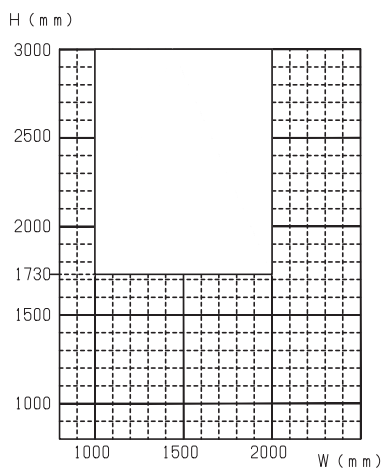


Handle Height : a = 1000

## Variation



## Size Limitation



## FIX/DOUBLE DOOR (WITHOUT SILL)

### PRICE LIST

---

1 See page **32** for the upper FIX

---

2 See page **100** for the lower Door

---

Price : 1 + 2

**INSWING**

## OUTSWING



# DOUBLE DOOR (WITH SILL)



With Sill  
With Lockset

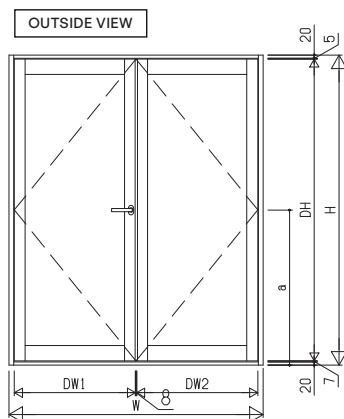
## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-

## Glass

Glass Size	Qty	Thickness
(W/2-165)(H-238)	1	5,6,8

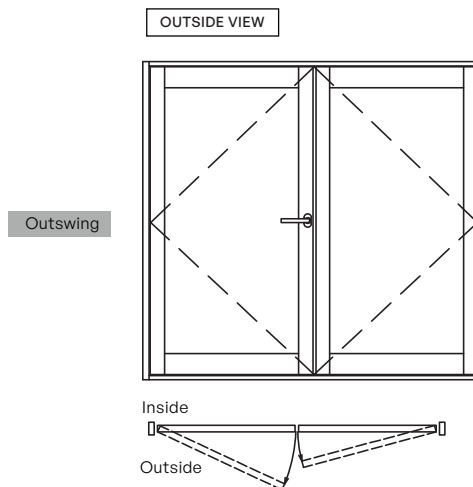
## Standard Specifications



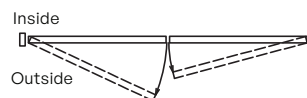
\*Outswing (R)

Handle Height : a = 1000

## Variation



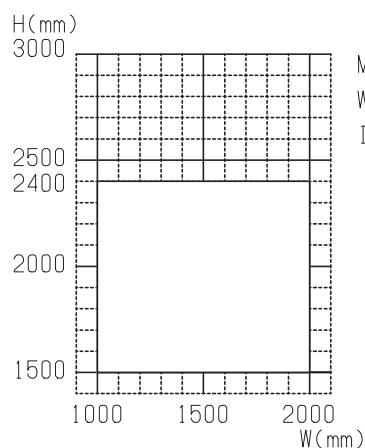
Outswing



Inside

Outside

## Size Limitation



MAX. AGAINST  
WIND PRESSURE  
IS 600Pa





# FIX/DOUBLE DOOR (WITH SILL)



With Sill  
With Lockset

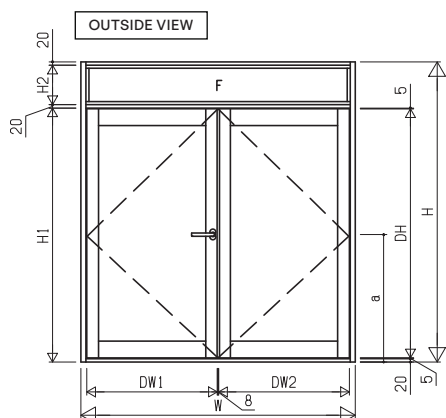
## Performance

Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-

## Glass

	Glass Size	Qty	Thickness
Door	(W/2-165)(H1-198)	1	5,6,8
FIX	(W-82)(H2-22)	1	5,6,8

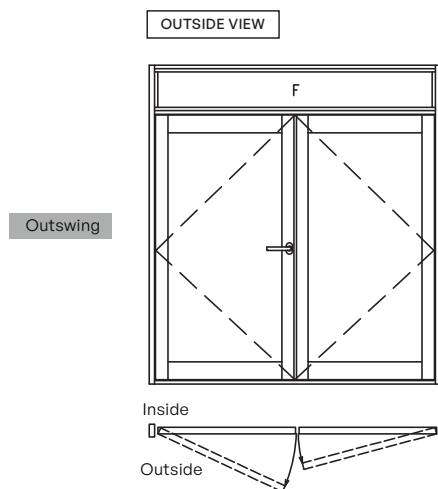
## Standard Specifications



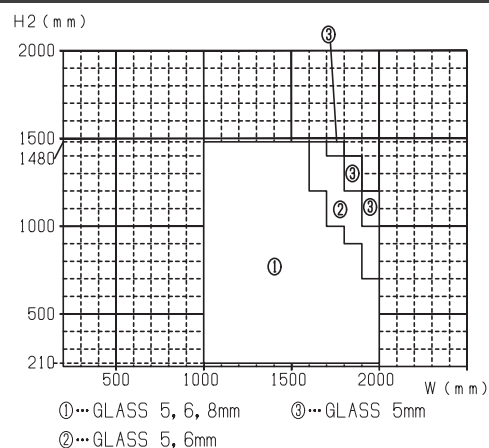
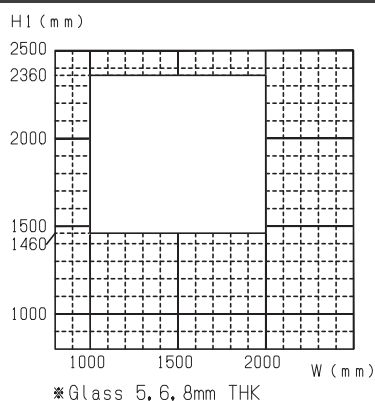
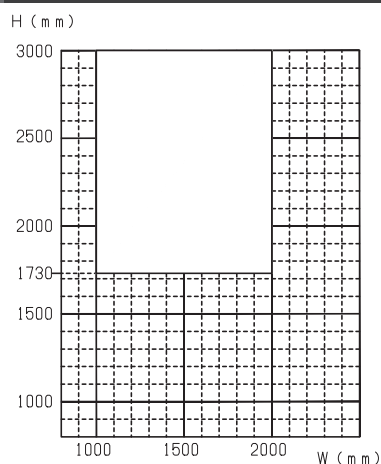
\*Outswing (R)

Handle Height : a = 1000

## Variation



## Size Limitation





## FIX/DOUBLE DOOR (WITH SILL)

### PRICE LIST

---

1 See page **32** for the upper FIX

---

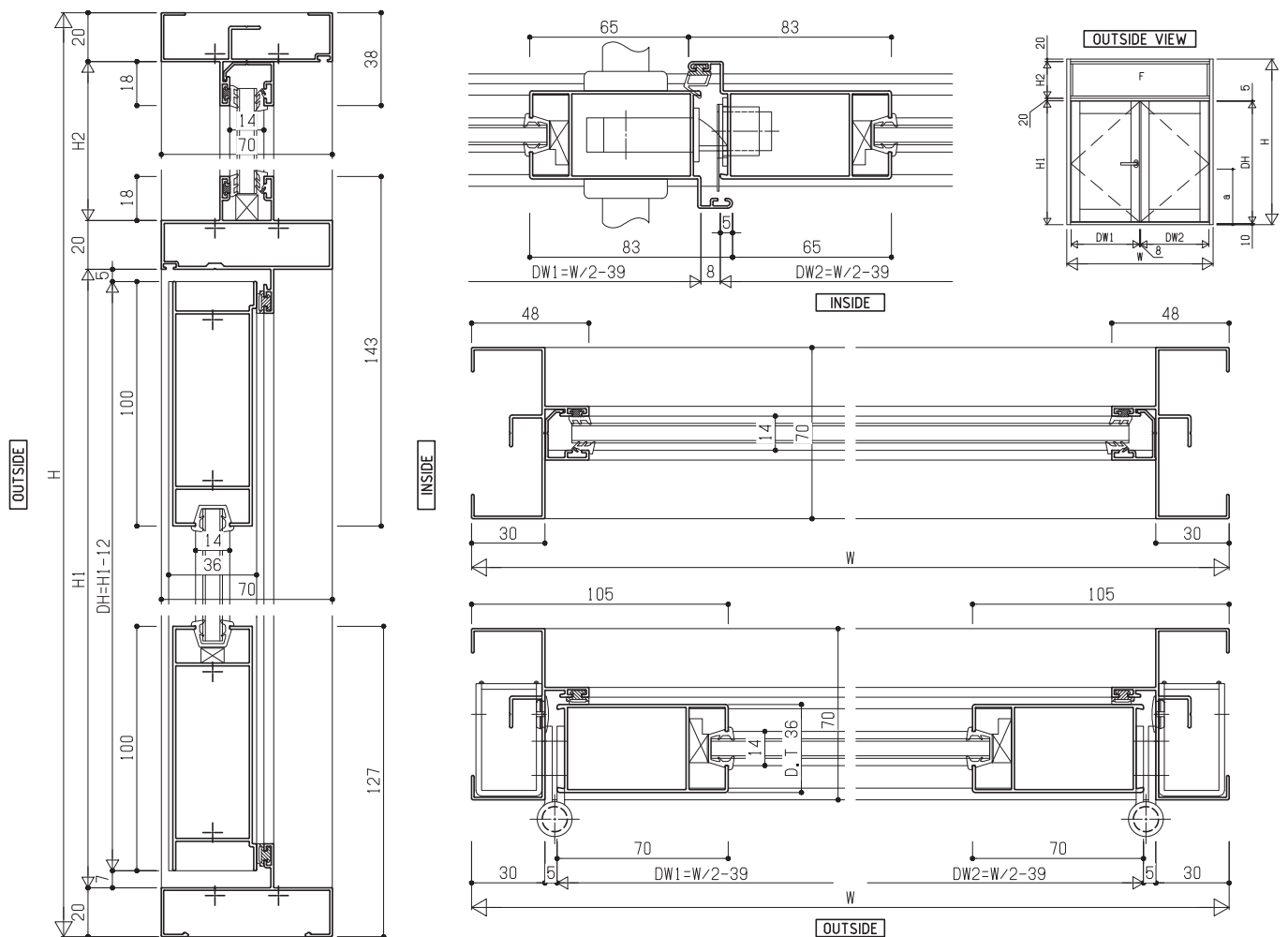
2 See page **108** for the lower Door

---

Price : 1 + 2

## SYSTEM DRAWING

## OUTSWING





# MULLION



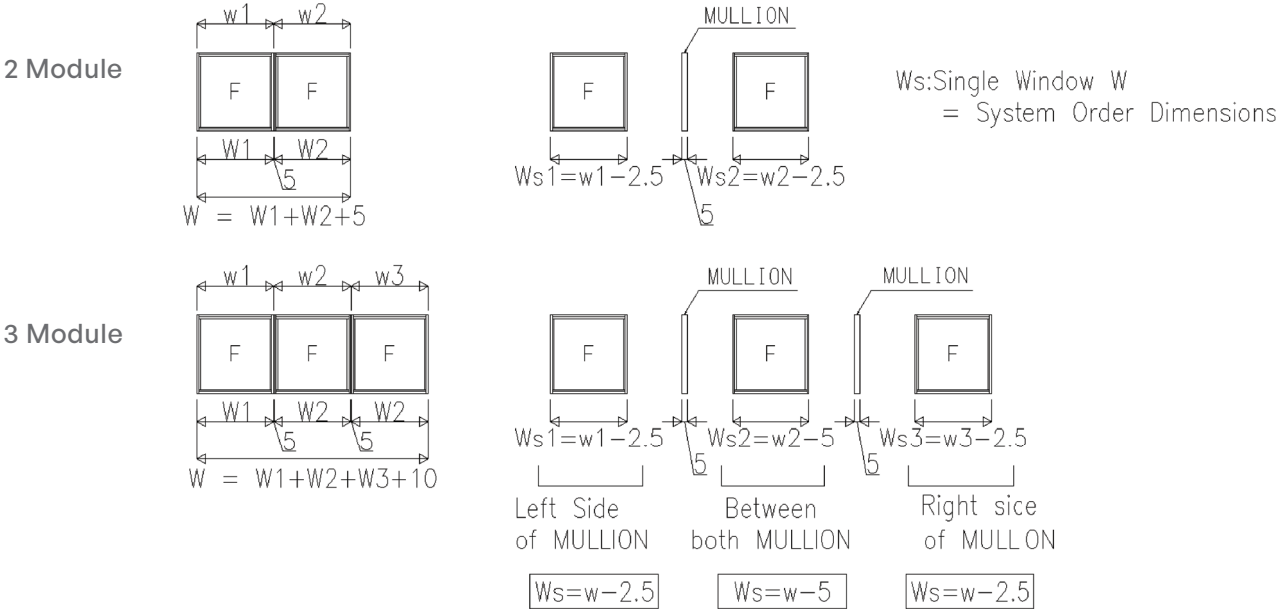
\*Sliding cannot be combined as a continuous window

## Performance

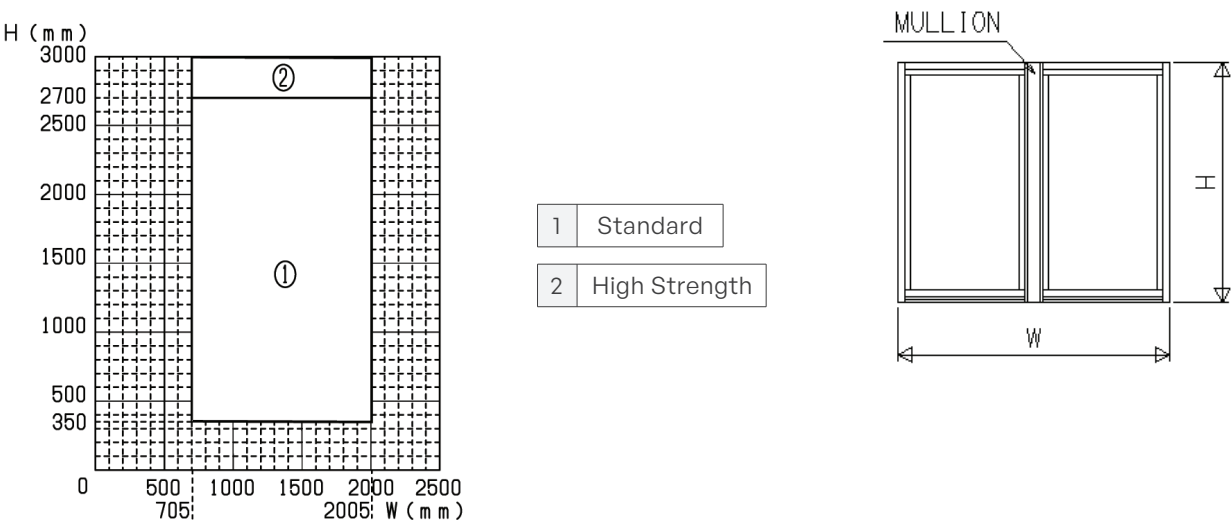
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## PERFORMANCE OF CONTINUOUS WINDOWS

## System Order Dimensions



## Size Limitation



# T - MULLION

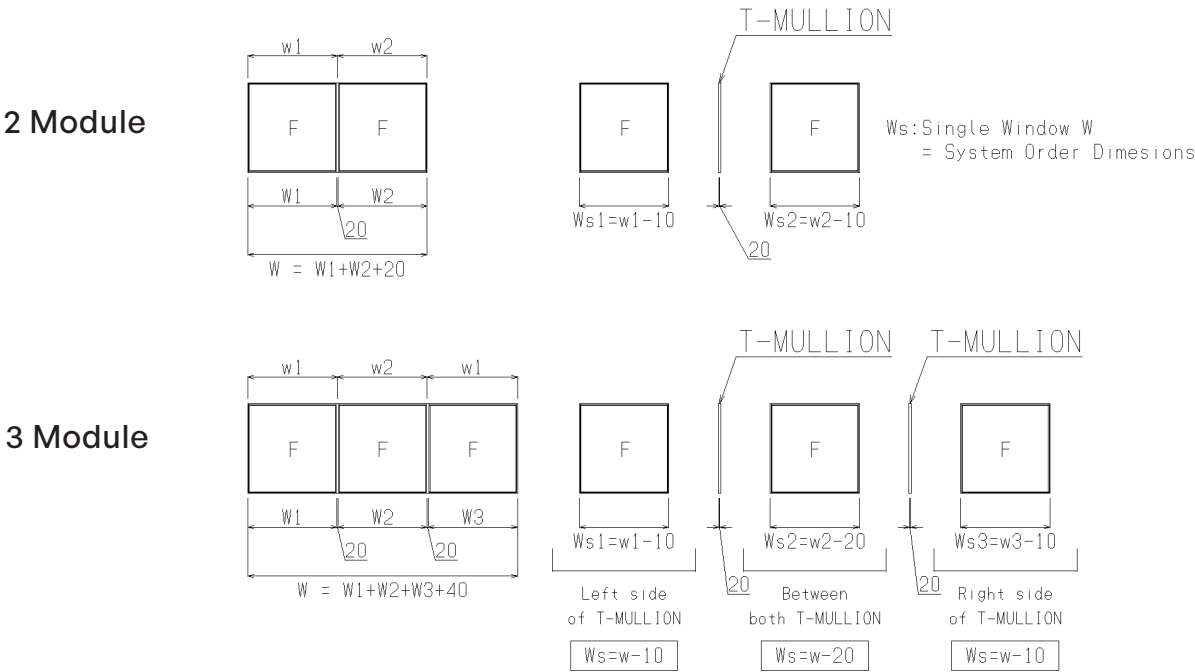


## Performance

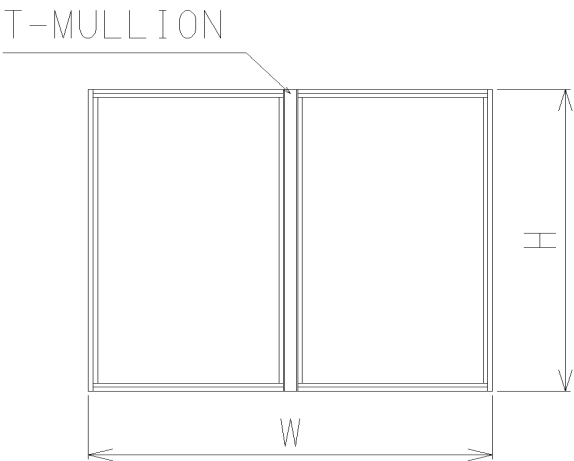
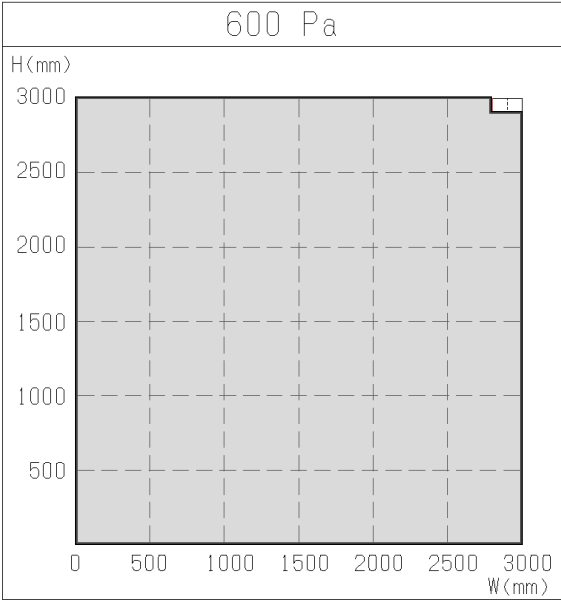
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

## PERFORMANCE OF CONTINUOUS WINDOWS

## System Order Dimensions



## Size Limitation



# MULLION, T - MULLION

**(STANDARD TYPE)**

When you Order Mullion or T-Mullion, Please check Condition Pattern.

Condition Pattern

M : Mullion , T : T-Mullion , HT : Hinge at T-Mullion

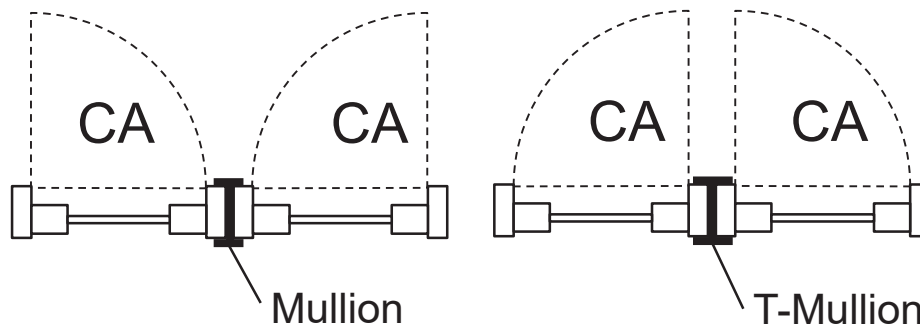
	MADELA FIX・TH・CA	MADELA SL2・SL4	MADELA Door (lock side use)	MADELA Door (hinge side use)	Other series
MADELA FIX・TH・CA	M <sup>*1</sup>	T <sup>*2</sup>	T <sup>*2</sup>	HT <sup>*3</sup>	T <sup>*2</sup>
MADELA SL2・SL4	T <sup>*2</sup>	T <sup>*2</sup>	T <sup>*2</sup>	HT <sup>*3</sup>	T <sup>*2</sup>
MADELA Door (lock side use)	T <sup>*2</sup>	T <sup>*2</sup>	T <sup>*2</sup>	HT <sup>*3</sup>	T <sup>*2</sup>
MADELA Door (hinge side use)	HT <sup>*3</sup>	HT <sup>*3</sup>	HT <sup>*3</sup>		HT <sup>*3</sup>
Other series	T <sup>*2</sup>	T <sup>*2</sup>	T <sup>*2</sup>	HT <sup>*3</sup>	T <sup>*2</sup>

## | MULLION, T - MULLION

### \*1 CASE USING MADELA MULLION

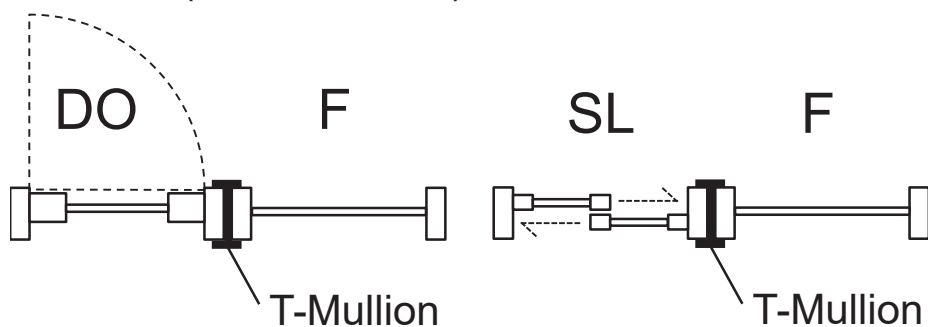
Mullion can be used at MADELA FIX/TH/CA.

However, when using Mullion with CA, please use T-Mullion in the case of the combination shown below.



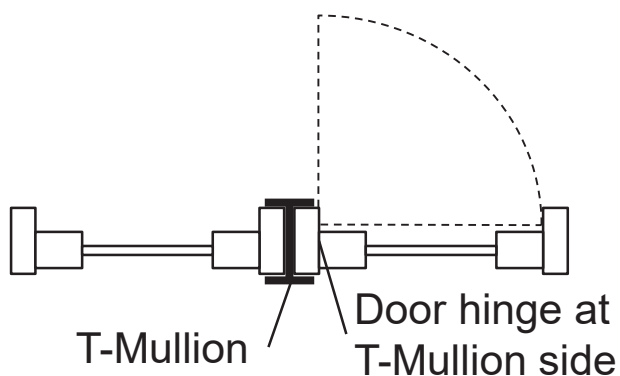
### \*2 CASE USING MADELA MULLION

Please use T-Mullion to connect MADELA SL/Door with other sash.



### \*3 CASE USING MADELA MULLION

Please use Hinge T-Mullion for door with hinge at Mullion side.





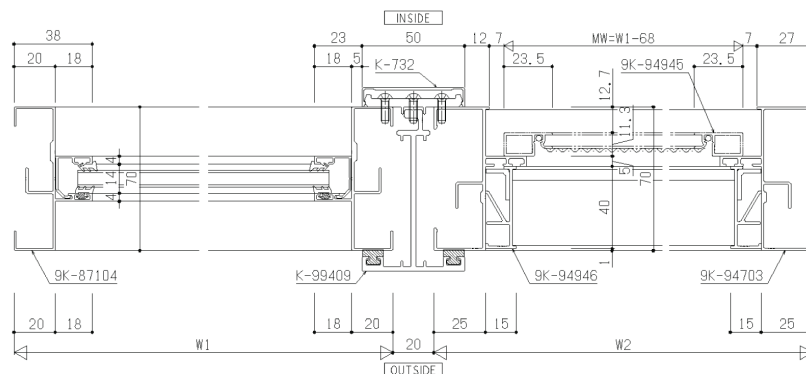
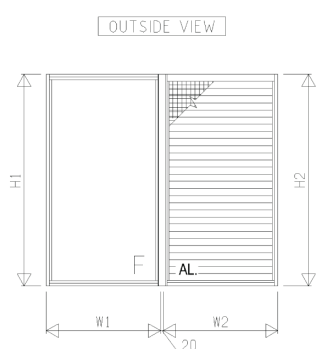


# MULLION, T-MULLION

## REFERENCE COMBINATION DRAWING

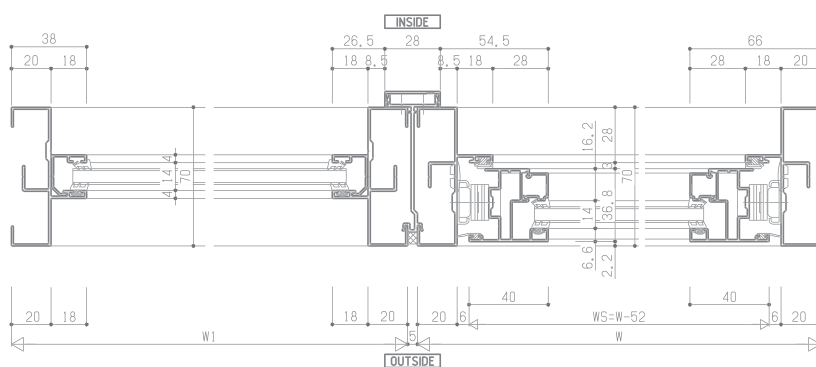
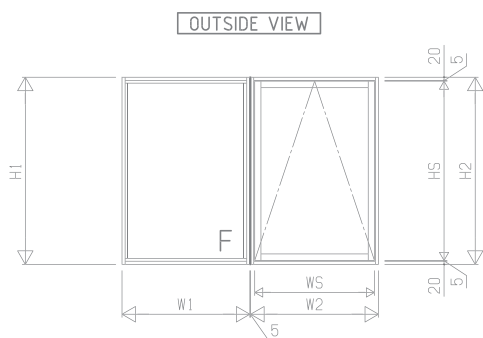
### MADELA FIX + OTHER SERIES (NEXSTA LOUVER)

T (T-Mullion)



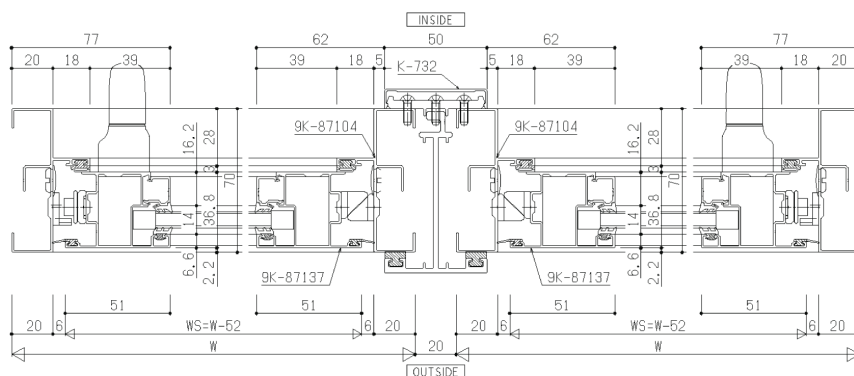
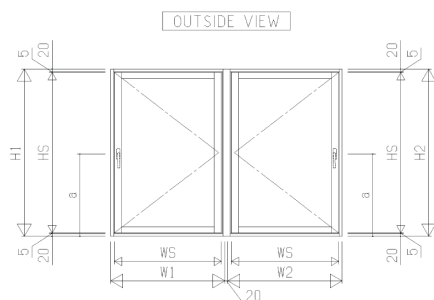
### MADELA FIX + MADELA TH

M (Mullion)



### MADELA CA + MADELA CA

T (T-Mullion)









# MADELA

WINDOWS THAT MEET THE DEMANDS OF FUTURE HOUSING

## PT YKK AP INDONESIA

### Head Office & Factory

Kawasan Industri Manis  
Jl. Manis Raya No.23, Ds. Kadu, Kec. Curug  
Tangerang 15810, Banten, Indonesia  
Tel: +62 21 591 9073  
Fax: +62 21 591 9074  
[www.ykkap.co.id](http://www.ykkap.co.id)

### Jakarta Sales & Marketing Office

Summitmas I Building  
Jl. Jend. Sudirman Kav.61-62, 3rd Floor Jakarta  
12190, Indonesia  
Tel: +62 21 252 0745

### Surabaya Branch Office

JAPFA INDOLAND CENTER  
JAPFA TOWER I 6th Floor No.606-607  
Jl. Jend. Basuki Rachmat 129-137 Surabaya 60271,  
Jawa Timur, Indonesia  
Tel: +62 31 535 1800 (Hunting)  
Fax: +62 31 535 1700

### Representative Office in Vietnam

11<sup>th</sup> Floor AB Tower, 76 Le Lai Street  
Ben Thanh Ward, District 1  
Ho Chi Minh City, Vietnam  
Tel: +84 8 3822 8900  
Fax: +84 8 3822 8901

## YKK AP (THAILAND) CO., LTD.

Wave Place Building, 13<sup>th</sup> Floor No. 55  
Wireless Road, Lumpini, Pathumwan  
Bangkok 10330, Thailand  
Tel: +66 2 655 6334  
Fax: +66 2 655 6399



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ISSUE DATE SEP, 2024  
PRINTED IN INDONESIA

C008-24JI-E-7