PT YKK AP INDONESIA

ENGLISH VERSION

JUL 2025

YKK ap®

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

Project Photo: Northwest Park Extention Citraland, Surabaya

PROJECT REFERENCE

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 jointing

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

Normal metal joint (Other company FG)

Using a rubber Sealer pad
*Only Solid rubber

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

YKK AP performance products

Using Sealer pad with *SAP Material

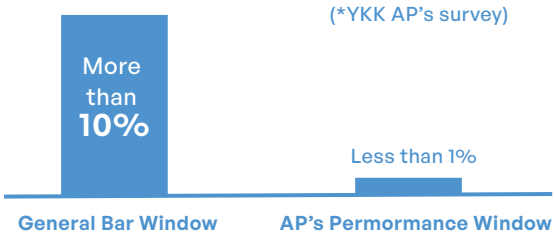
Junction factor Water leakage ratio:
Less than 1%
(API research)

Secret of W Proof Joint

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

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

Water Leakage Rate (Caused by Window Factors)



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

Water Tightness Test at In-house Testing Center

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

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

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

WINDOWS FOR NEXT GENERATIONS

"SIMPLE AND EASY"

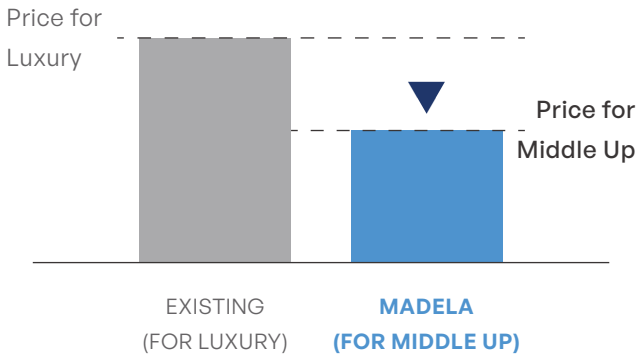
Reliable Quality

- YKK AP Original Hardware

YKK AP Original Hardware are used for the main parts

Affordability

- Price Suitable For Middle Up Zone

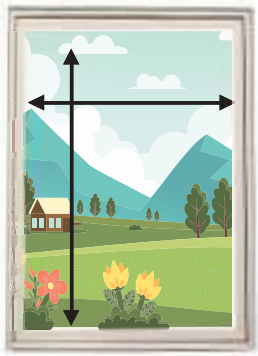


Simple Design

Not Obstruct The Scenery

GENERAL WINDOWS

Glass Area
14% up



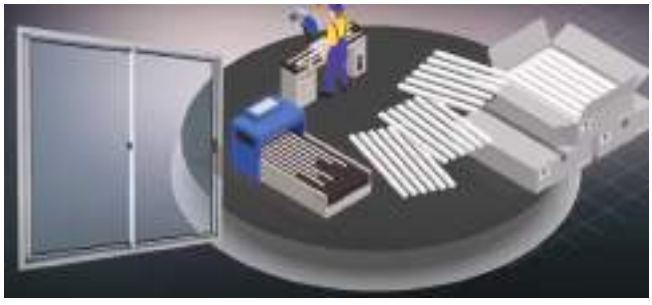
MADELA

Slim stile with
Sufficient strength

*Comparison condition:
Top Hung 900x1200

Height Processing Accuracy

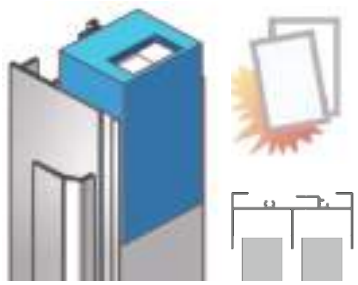
Products are processed with high accuracy in AP Factory



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

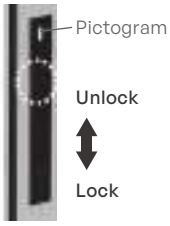
• Easy-To-Use

Crescent
(With lock knob)

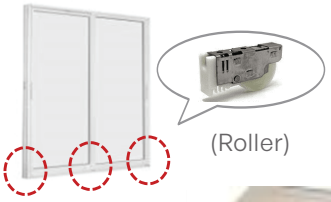
Raise the lock knob

Turn the handle to unlock

Hook Lock
(Flat design)



• Smooth Sliding And Highly Durable Roller



Adjustable height (+3 mm)

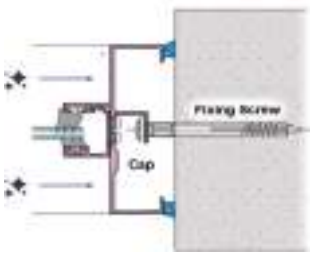
Rollers can be replaced without dismantling the shutters

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

MADELA SPECIAL SYSTEM

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

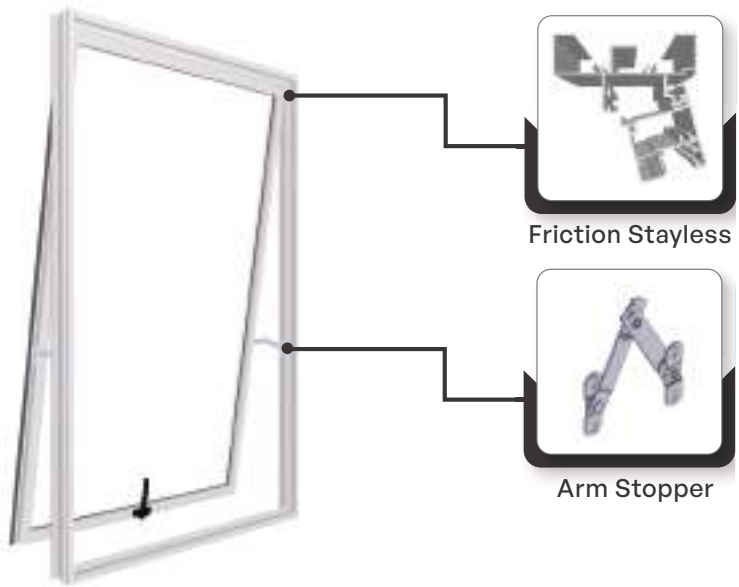
WIDER GLASS AREA
Slim stile for 14% wider scenery view than general window while keeping sufficient strength.

*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 appropiate the opening width.

Parts Matrix

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

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

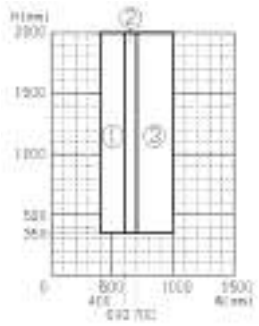
*Optional Parts depend on user needs on strength and price matter

Parts Color

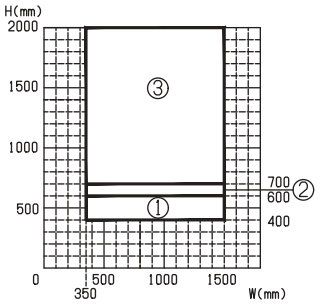
DG : Dark Gray **D1 :** White **YK :** Black **YS :** Light Gray

Limitation Graph For Safety Stopper

CASEMENT



TOP HUNG

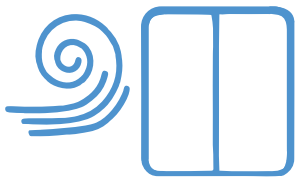


NO.	DESCRIPTION	PART NO.
①	Al. PLATE(L=33)	9K-11114
②	Al. PLATE(L=47)	9K-11353
③	ARM STOPPER	9K-11113

*Not applicated for Top Hung Friction Stayless

WINDOW PERFORMANCE

Structural (Wind Load)



Up to 600 pa

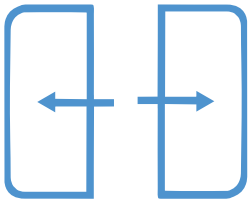
Sound Insulation

Provide A Quiet Living Atmosphere
-25 dB

Water Tightness

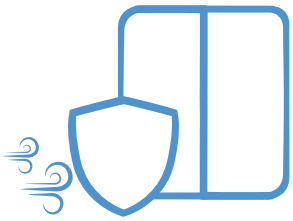
Watertight From Outside Within
MADELA - L : 100Pa

Opening Force



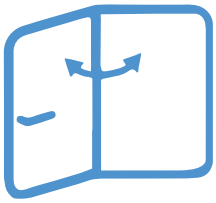
Smooth Opening
(Less Than 5 Kg)

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)

PRODUCT LINEUP

*Size and settings are subject to change

Variety of Opening Types & Setting Units

☐ SLIDING

2 LEAVES

Standard

SLIDING

SLIDING/FIX

FIX/SLIDING

FIX/SLIDING/FIX

4 LEAVES

SLIDING

(Without Muntin)

FIX/SLIDING

(With Muntin)

FIX/SLIDING

Flat Sill

SLIDING

FIX/SLIDING

SLIDING

(Without Muntin)

FIX/SLIDING

(With Muntin)

FIX/SLIDING

*** Size W>2400 : Muntin will be added to FIX automatically for reinforcement.**

☐ TOP HUNG

SINGLE

Standard

TOP HUNG

STEP WINDOWS

TOP HUNG/FIX

FIX/TOP HUNG

STEP WINDOWS

FIX/TOP HUNG/FIX

Friction Stayless

SINGLE

TOP HUNG

STEP WINDOWS

TOP HUNG/FIX

FIX/TOP HUNG

STEP WINDOWS

FIX/TOP HUNG/FIX

☐ CASEMENT

SINGLE

CASEMENT

STEP WINDOWS

CASEMENT/FIX

FIX/CASEMENT

STEP WINDOWS

FIX/CASEMENT/FIX

☐ FIX

SINGLE

FIX

STEP WINDOWS

FIX/FIX

STEP WINDOWS

FIX/FIX/FIX

☐ DOOR

SINGLE DOOR

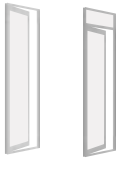
(Without Sill)

SINGLE STEP DOOR

DOOR FIX/DOOR

(With Sill)

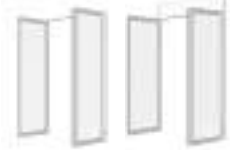
SINGLE STEP DOOR


DOOR FIX/DOOR

DOUBLE DOOR

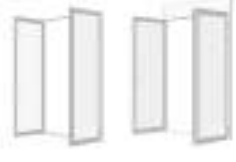
(Without Sill)

DOUBLE STEP DOOR


DOOR FIX/D-DOOR

(With Sill)

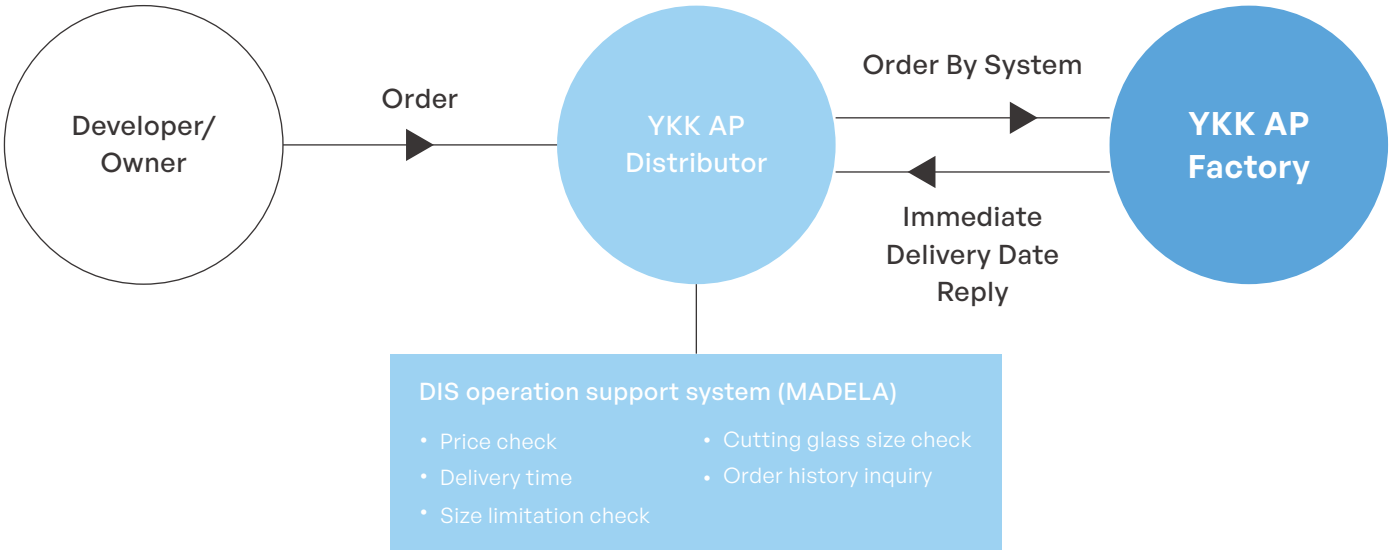
DOUBLE STEP DOOR


DOOR FIX/D-DOOR

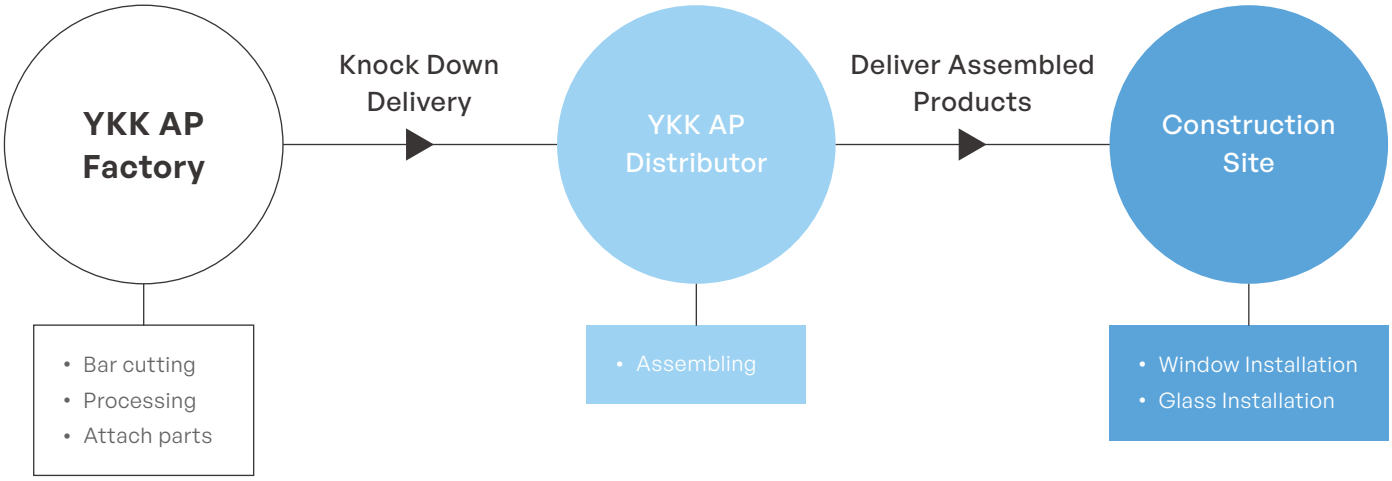
ABOUT MADELA

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

• About the Price List

- 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

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

• Quality Assurance

- 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

- 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)

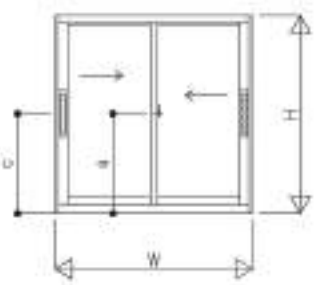
Glass

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

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

Standard Specifications

OUTSIDE VIEW



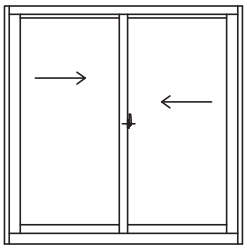
Crescent Height : a
- H/2+5
- 645
- Custom

Hook Lock Height : c
- H/2+5
- 645
- Custom

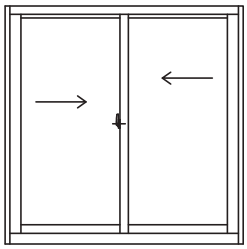
Variation

2 LEAF STANDARD

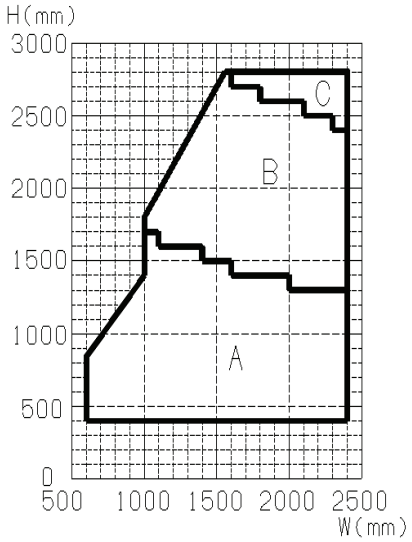
OUTSIDE VIEW



2 LEAF REVERSE



Size Limitation



SLIDING 2 LEAVES
PRICE LIST

CRESCENT

Juta Rp

W (mm) / H (mm)	600	601–700	701–800	801–900	901–1,000	1001–1,100	1101–1,200	1201–1,300	1301–1,400	1401–1,500	1501–1,600	1601–1,700	1701–1,800	1801–1,900	1901–2,000	2001–2,100	2101–2,200	2201–2,300	2301–2,400
400	1.02	1.06	1.10	1.15	1.20	1.25	1.29	1.33	1.38	1.42	1.47	1.51	1.55	1.60	1.65	1.69	1.74	1.78	1.82
401 ～ 500	1.06	1.11	1.15	1.20	1.25	1.30	1.34	1.38	1.43	1.47	1.51	1.56	1.60	1.65	1.70	1.74	1.78	1.83	1.87
501 ～ 600	1.11	1.16	1.20	1.25	1.30	1.34	1.39	1.43	1.47	1.52	1.56	1.61	1.65	1.69	1.74	1.79	1.83	1.88	1.92
601 ～ 700	1.16	1.20	1.25	1.30	1.35	1.39	1.44	1.48	1.52	1.57	1.61	1.65	1.70	1.74	1.79	1.84	1.88	1.92	1.97
701 ～ 800	1.21	1.25	1.30	1.35	1.40	1.44	1.48	1.53	1.57	1.62	1.66	1.70	1.75	1.79	1.84	1.88	1.93	1.97	2.02
801 ～ 900	1.26	1.30	1.34	1.39	1.44	1.49	1.53	1.58	1.62	1.66	1.71	1.75	1.79	1.84	1.89	1.93	1.98	2.02	2.06
901 ～ 1,000		1.35	1.40	1.45	1.50	1.54	1.59	1.63	1.67	1.72	1.76	1.81	1.85	1.89	1.94	1.99	2.03	2.08	2.12
1,001 ～ 1,100			1.46	1.51	1.56	1.60	1.64	1.69	1.73	1.78	1.82	1.86	1.91	1.95	2.00	2.05	2.09	2.13	2.18
1,101 ～ 1,200			1.50	1.56	1.61	1.65	1.69	1.74	1.78	1.82	1.87	1.91	1.96	2.00	2.05	2.09	2.14	2.18	2.23
1,201 ～ 1,300				1.60	1.65	1.70	1.74	1.78	1.83	1.87	1.92	1.96	2.00	2.05	2.10	2.14	2.19	2.23	2.27
1,301 ～ 1,400					1.70	1.75	1.79	1.83	1.88	1.92	1.96	2.01	2.05	2.10	2.15	2.30	2.34	2.38	2.43
1,401 ～ 1,500					1.75	1.79	1.84	1.88	1.93	1.97	2.01	2.17	2.21	2.26	2.31	2.35	2.39	2.44	2.48
1,501 ～ 1,600					1.81	1.85	1.90	1.94	1.99	2.15	2.19	2.24	2.28	2.32	2.37	2.42	2.46	2.50	2.55
1,601 ～ 1,700					1.86	1.90	2.07	2.11	2.16	2.20	2.25	2.29	2.33	2.38	2.43	2.47	2.51	2.56	2.60
1,701 ～ 1,800					2.04	2.08	2.12	2.17	2.21	2.26	2.30	2.34	2.39	2.43	2.48	2.53	2.57	2.61	2.66
1,801 ～ 1,900						2.13	2.18	2.22	2.27	2.31	2.35	2.40	2.44	2.49	2.54	2.58	2.62	2.67	2.71
1,901 ～ 2,000						2.19	2.23	2.28	2.32	2.36	2.41	2.45	2.50	2.54	2.59	2.63	2.68	2.72	2.76
2,001 ～ 2,100							2.29	2.33	2.37	2.42	2.46	2.51	2.55	2.59	2.64	2.69	2.73	2.78	2.82
2,101 ～ 2,200							2.34	2.38	2.43	2.47	2.52	2.56	2.60	2.65	2.70	2.74	2.79	2.83	2.87
2,201 ～ 2,300								2.45	2.49	2.54	2.58	2.62	2.67	2.71	2.76	2.81	2.85	2.89	2.94
2,301 ～ 2,400								2.50	2.55	2.59	2.63	2.68	2.72	2.77	2.82	2.86	2.90	2.95	2.99
2,401 ～ 2,500									2.60	2.64	2.69	2.73	2.78	2.82	2.87	2.91	2.96	3.00	3.21
2,501 ～ 2,600									2.67	2.71	2.76	2.80	2.84	2.89	2.94	2.98	3.20	3.24	3.28
2,601 ～ 2,700										2.77	2.81	2.85	2.90	3.12	3.17	3.21	3.26	3.30	3.34
2,701 ～ 2,800											2.86	3.09	3.13	3.18	3.23	3.27	3.32	3.36	3.40

Stile A type

Stile B type

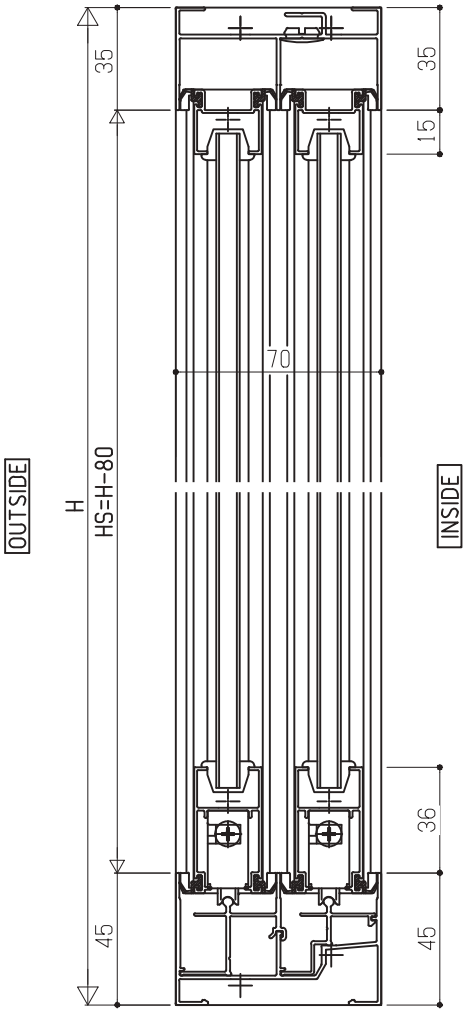
Stile C type

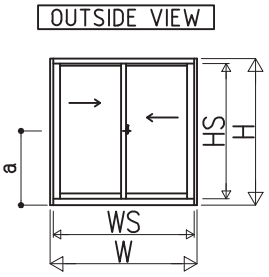
* For the specifications with **Hook Lock**, 0.21 juta/set will be added to the price above

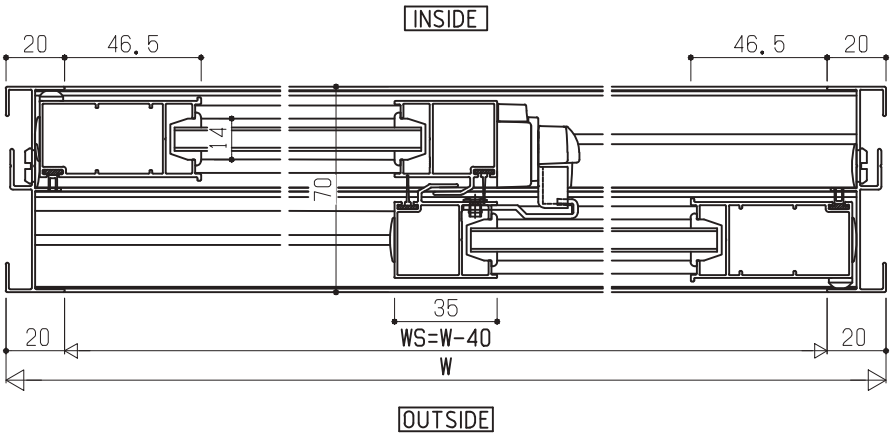
*For the specifications with **Hook Lock with key**, 0.53 juta/set will be added to the price above.

*This price is not included glass, assembling fee, delivery fee and installation fee.

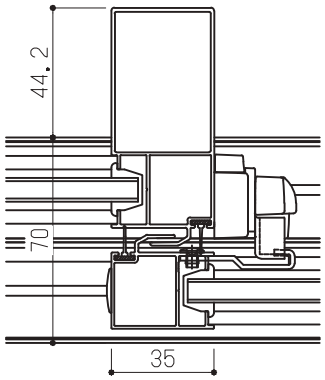
*The stile type is automatically selected according to the size image.
Please check the size limitation graph.



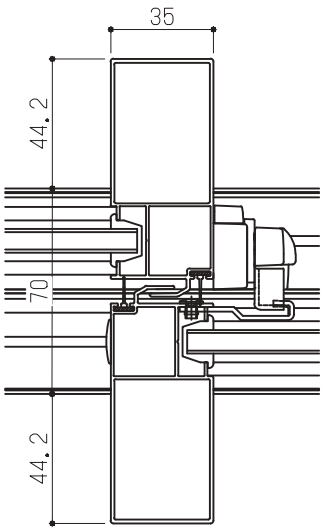




A TYPE

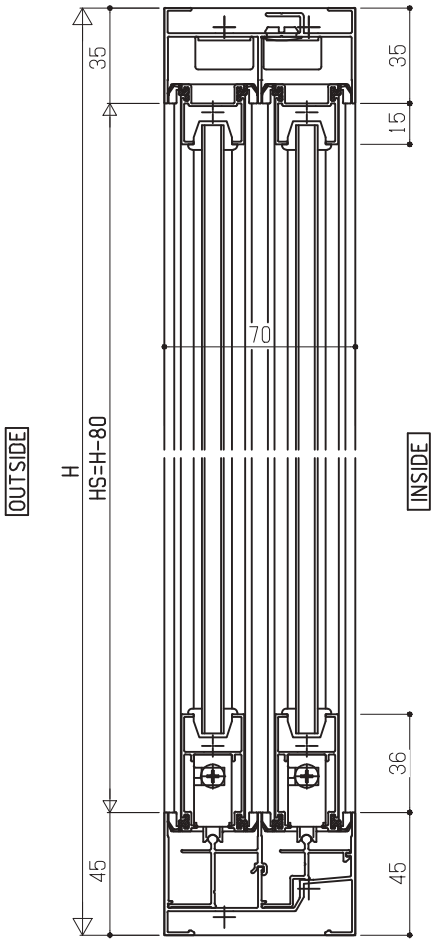


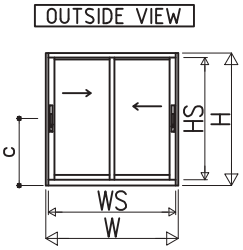
B TYPE

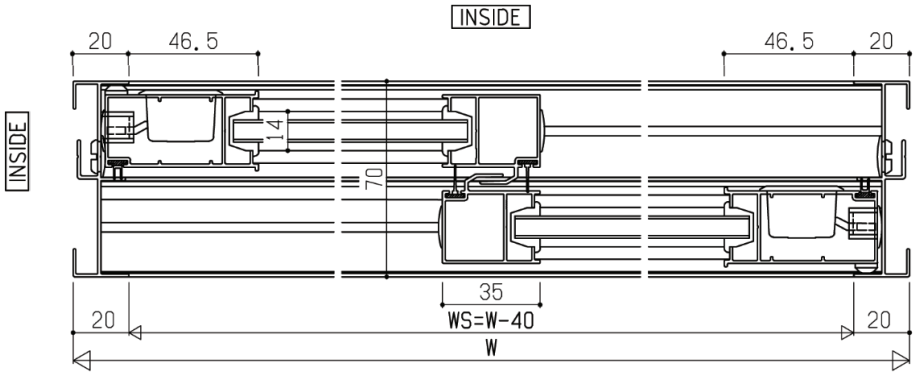


C TYPE

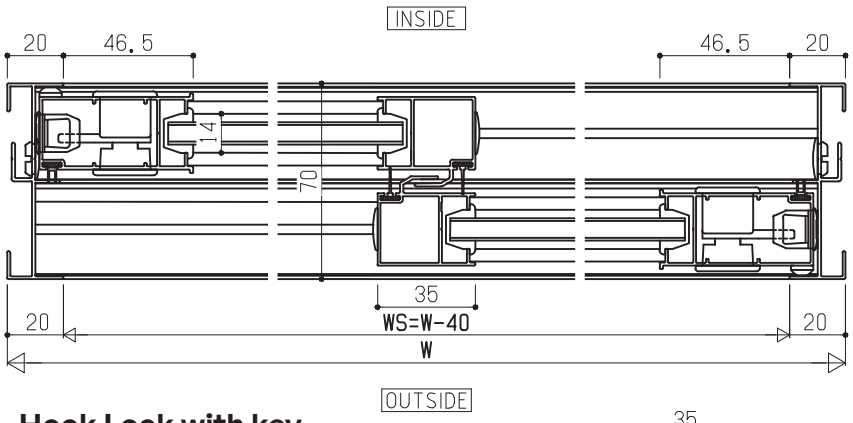
* The stile type is automatically selected according to the size range.
Please check the size limitation graph.



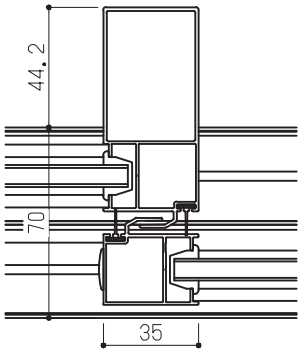




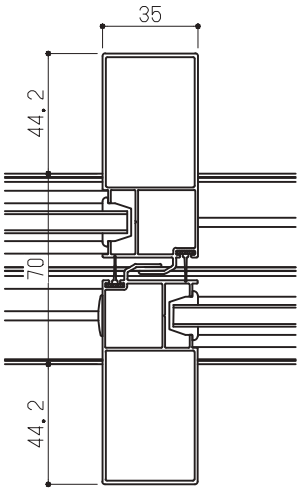
A TYPE



Hook Lock with key



B TYPE



C TYPE

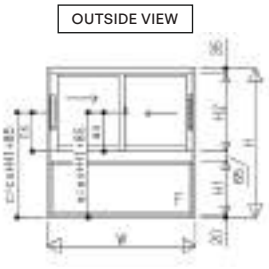
* The stile type is automatically selected according to the size range.
Please check the size limitation graph.

SLIDING 2 LEAVES**/FIX**

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

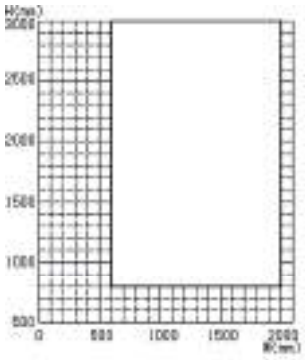
Variation

2 LEAF STANDARD

2 LEAF REVERSE

Size Limitation

WH size



Specifications

Selected parts :

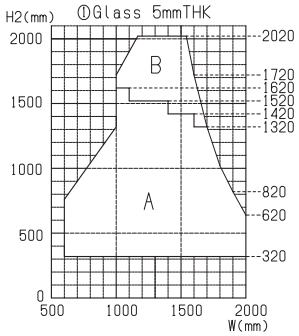
Crescent, Hook Lock, Hook Lock with key

Glass

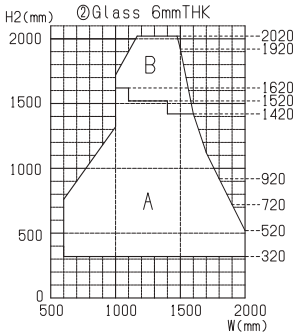
	Glass Size	Qty	Thickness
SL	(W/2-66)×(H2-37)	2	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

Size Limitation

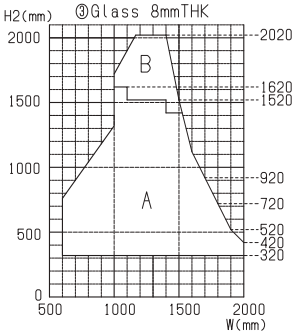
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

SLIDING 2 LEAVES**/FIX**
PRICE LIST

1 See page **12** for the lower Sliding window

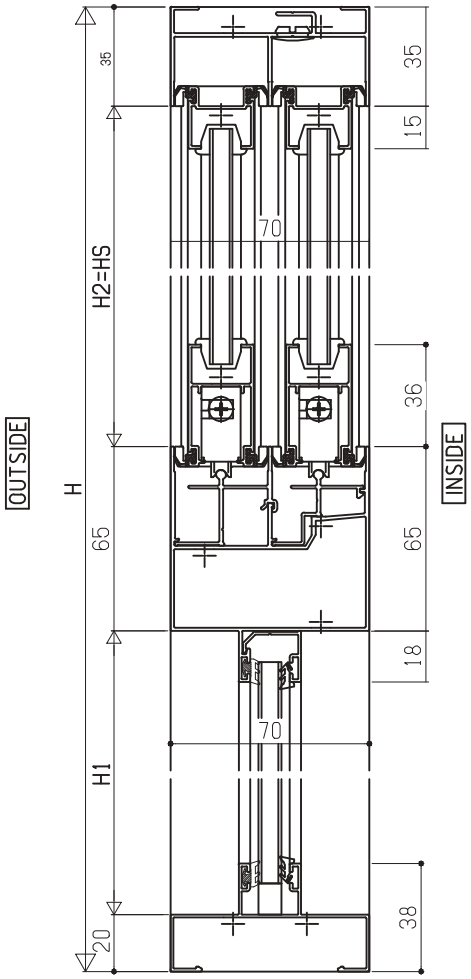
2 See the price list below for the lower FIX

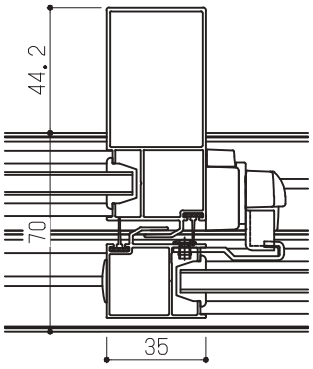
Price : 1 + 2

FIX (Transom Price Included)

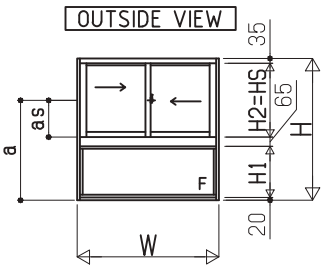
Juta Rp

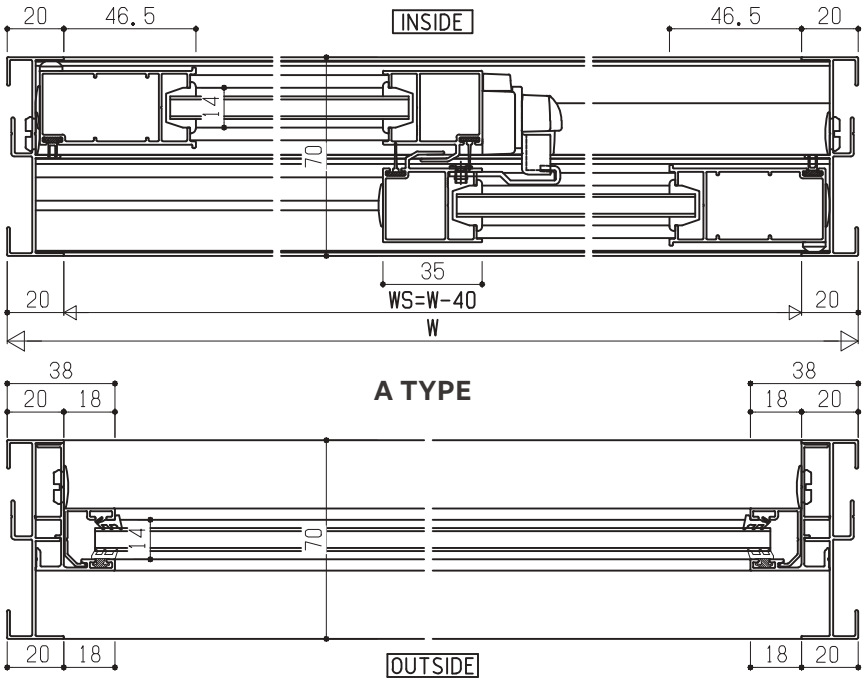
(mm) \ W			600	601-700	701-800	801-900	901-1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000
		300	0.42	0.44	0.46	0.48	0.51	0.53	0.55	0.57	0.59	0.61	0.63	0.65	0.67	0.69	0.71
301	~	400	0.44	0.46	0.48	0.50	0.54	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74
401	~	500	0.47	0.49	0.51	0.53	0.56	0.58	0.60	0.62	0.64	0.66	0.68	0.70	0.72	0.74	0.76
501	~	600	0.49	0.51	0.53	0.55	0.59	0.61	0.63	0.65	0.67	0.69	0.71	0.73	0.75	0.77	0.79
601	~	700	0.51	0.53	0.55	0.57	0.61	0.63	0.65	0.67	0.69	0.71	0.73	0.75	0.77	0.79	0.81
701	~	800	0.54	0.56	0.58	0.60	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80	0.82	0.84
801	~	900	0.57	0.59	0.61	0.63	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.80	0.82	0.84	0.86
901	~	1,000	0.59	0.61	0.63	0.65	0.69	0.71	0.73	0.75	0.77	0.79	0.81	0.83	0.85	0.87	0.89
1,001	~	1,100	0.62	0.64	0.66	0.68	0.71	0.73	0.75	0.77	0.79	0.81	0.83	0.85	0.87	0.89	0.91
1,101	~	1,200	0.64	0.66	0.68	0.70	0.74	0.76	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94
1,201	~	1,300	0.66	0.68	0.70	0.72	0.76	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94	0.96
1,301	~	1,400	0.69	0.71	0.73	0.75	0.79	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.97	0.99
1,401	~	1,500	0.72	0.74	0.76	0.78	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.97	0.99	1.01
1,501	~	1,600	0.74	0.76	0.78	0.80	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04
1,601	~	1,700	0.77	0.79	0.81	0.82	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02	1.04	1.06
1,701	~	1,800	0.79	0.81	0.83	0.85	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09
1,801	~	1,900	0.82	0.84	0.86	0.88	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09	1.11
1,901	~	2,000	0.84	0.86	0.88	0.90	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14
2,001	~	2,100	0.87	0.89	0.91	0.93	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12	1.14	1.16
2,101	~	2,200	0.89	0.91	0.93	0.95	0.99	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19
2,201	~	2,300	0.92	0.94	0.96	0.97	1.01	1.03	1.05	1.07	1.09	1.11	1.13	1.15	1.17	1.19	1.21
2,301	~	2,400	0.94	0.96	0.98	1.00	1.04	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24
2,401	~	2,500	0.97	0.99	1.01	1.03	1.06	1.08	1.10	1.12	1.14	1.16	1.18	1.20	1.22	1.24	1.26
2,501	~	2,600	0.99	1.01	1.03	1.05	1.09	1.11	1.13	1.15	1.17	1.19	1.21	1.23	1.25	1.27	1.29





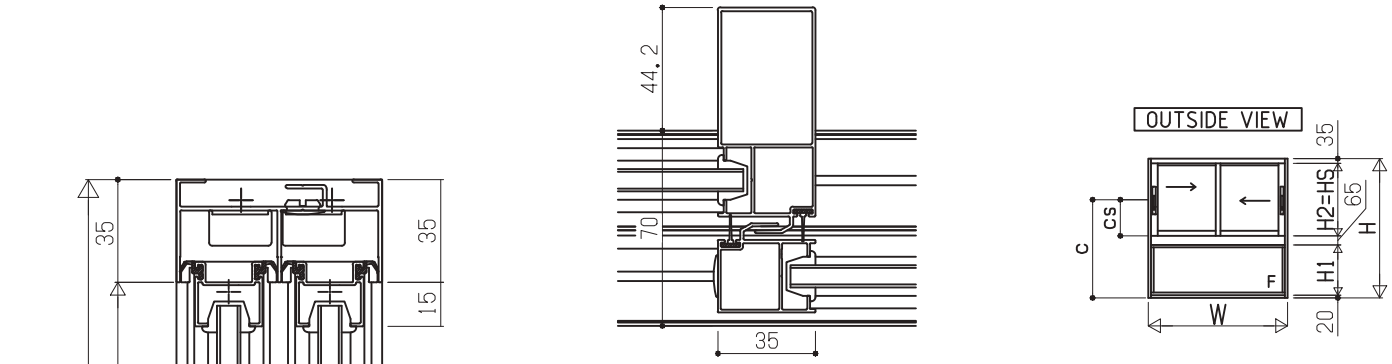
B TYPE



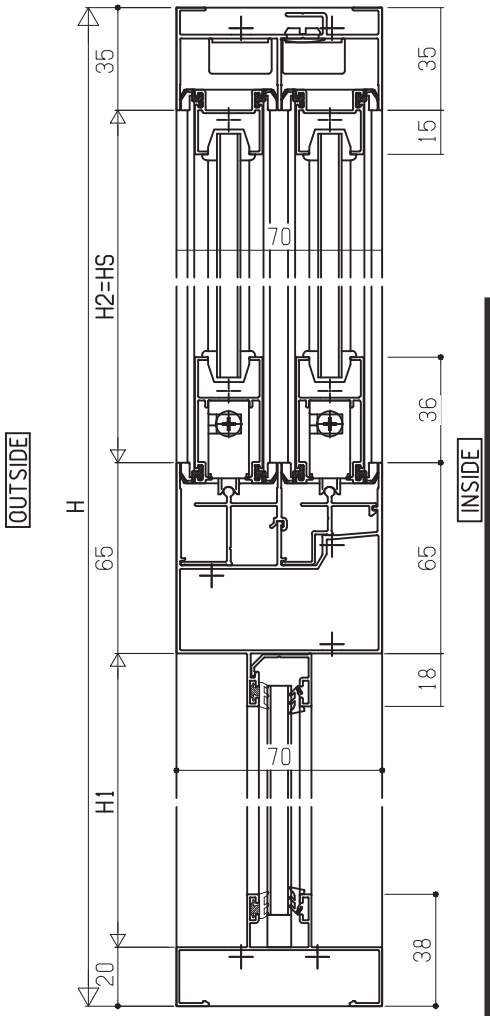


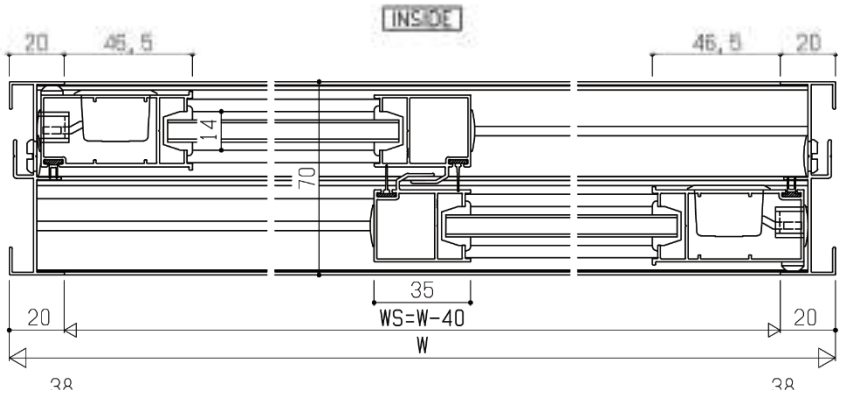
A TYPE

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

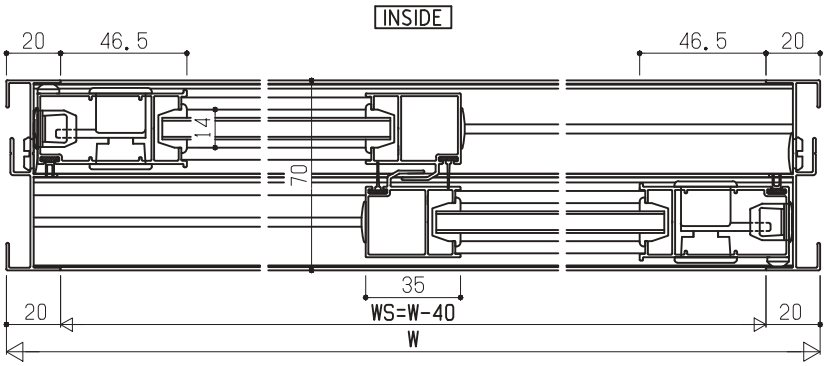


B TYPE

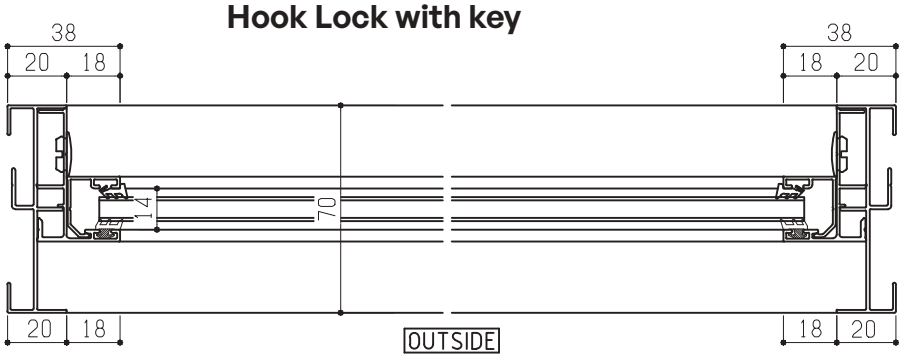




A TYPE



Hook Lock with key



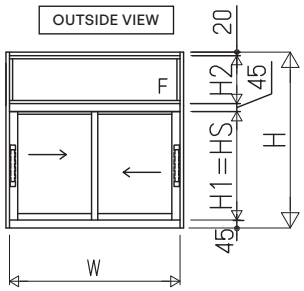
* The stile type is automatically selected according to the size range.
Please check the size limitation graph.

FIX/SLIDING 2 LEAVES

Performance

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

Standard Specification

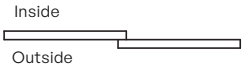


Crescent Height : as
- H1/2
- 600
- Custom

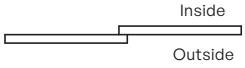
Hook Lock Height : c
- H1/2
- 600
- Custom

Variation

2 LEAF STANDARD

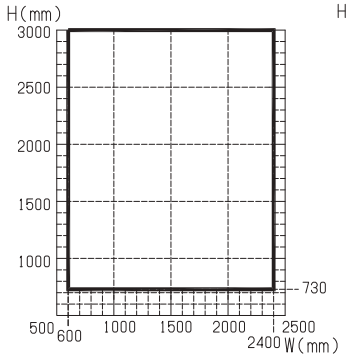


2 LEAF REVERSE

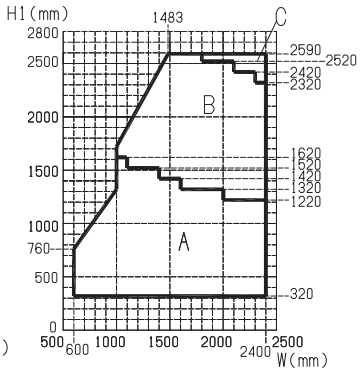


Size Limitation

WH size



H1 size



Specifications

Selected parts :

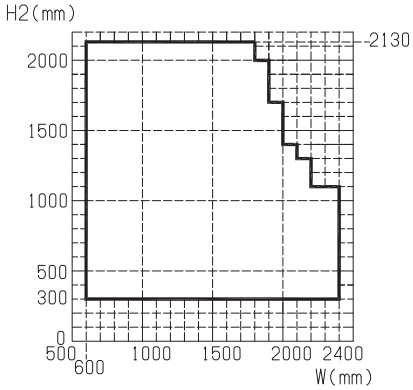
Crescent, Hook Lock, Hook Lock with key

Glass

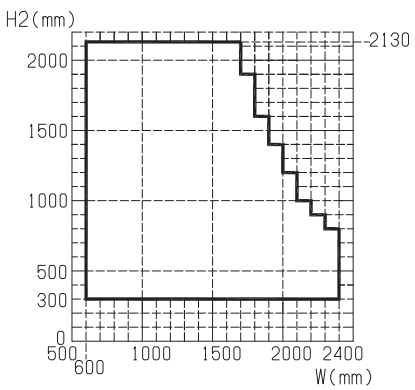
	Glass Size	Qty	Thickness
SL	(W/2-66)×(H1-37)	2	5,6,8
FIX	(W-62)×(H2-22)	1	5,6,8

Size Limitation

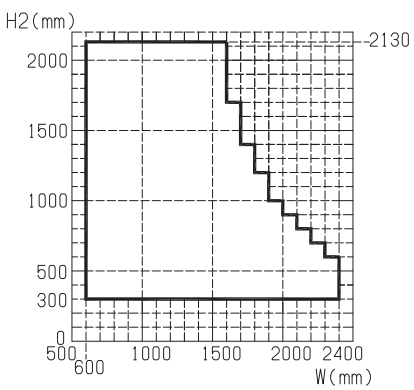
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

FIX/SLIDING 2 LEAVES
PRICE LIST

1 See the price list below for the upper FIX

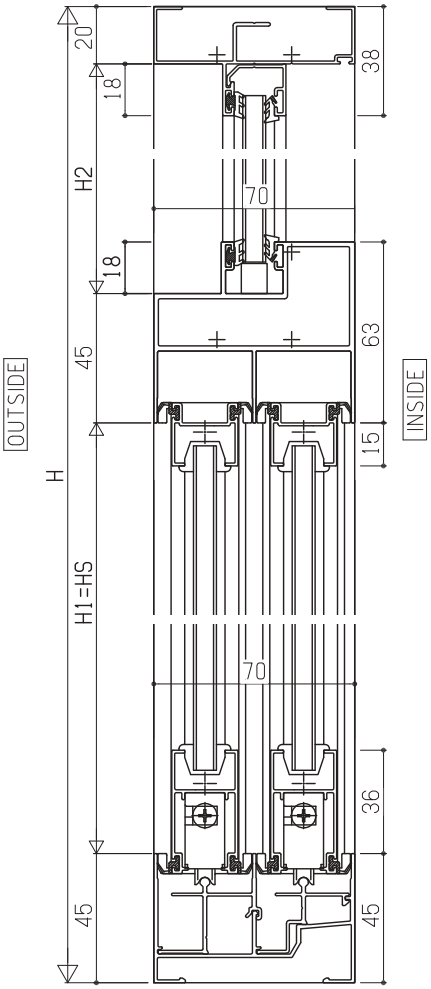
2 See page **12** for the lower Sliding window

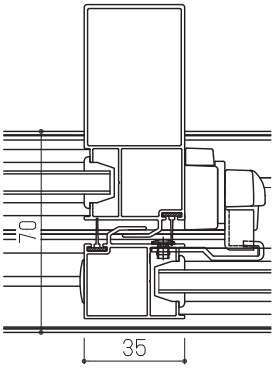
Price : 1 + 2

FIX (Transom Price Included)

Juta Rp

H (mm) \ W (mm)	600	601-700	701-800	801-900	901-1,000	1001-1,100	1101-1,200	1201-1,300	1301-1,400	1401-1,500	1501-1,600	1601-1,700	1701-1,800	1801-1,900	1901-2,000	2001-2,100	2101-2,200	2201-2,300	2301-2,400
300	0.43	0.45	0.47	0.50	0.52	0.54	0.57	0.59	0.62	0.64	0.66	0.69	0.71	0.73	0.76	0.78	0.80	0.83	0.85
301 ~ 400	0.45	0.47	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.66	0.69	0.71	0.74	0.76	0.78	0.81	0.83	0.85	0.88
401 ~ 500	0.48	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.67	0.69	0.71	0.74	0.76	0.78	0.81	0.83	0.85	0.88	0.90
501 ~ 600	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.67	0.69	0.71	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93
601 ~ 700	0.52	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93	0.95
701 ~ 800	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93	0.95	0.98
801 ~ 900	0.58	0.60	0.62	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.81	0.84	0.86	0.88	0.91	0.93	0.95	0.98	1.00
901 ~ 1,000	0.60	0.62	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.81	0.84	0.86	0.89	0.91	0.93	0.96	0.98	1.00	1.03
1,001 ~ 1,100	0.63	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.82	0.84	0.86	0.89	0.91	0.93	0.96	0.98	1.00	1.03	1.05
1,101 ~ 1,200	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.82	0.84	0.86	0.89	0.91	0.94	0.96	0.98	1.00	1.03		
1,201 ~ 1,300	0.67	0.70	0.72	0.75	0.77	0.79	0.82	0.84	0.87	0.89	0.91	0.94	0.96	0.98	1.01	1.03	1.05		
1,301 ~ 1,400	0.70	0.72	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.91	0.94	0.96	0.99	1.01	1.03	1.06			
1,401 ~ 1,500	0.73	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.92	0.94	0.96	0.99	1.01	1.03	1.06				
1,501 ~ 1,600	0.75	0.77	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.96	0.99	1.01	1.04	1.06	1.08				
1,601 ~ 1,700	0.77	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.04	1.06	1.08	1.11				
1,701 ~ 1,800	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.04	1.06	1.09	1.11					
1,801 ~ 1,900	0.83	0.85	0.87	0.90	0.92	0.94	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.13					
1,901 ~ 2,000	0.85	0.87	0.90	0.92	0.95	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.14	1.16					
2,001 ~ 2,100	0.88	0.90	0.92	0.95	0.97	0.99	1.02	1.04	1.07	1.09	1.11	1.14	1.16						
2,101 ~ 2,200	0.90	0.92	0.95	0.97	1.00	1.02	1.04	1.07	1.09	1.11	1.14	1.16	1.19						





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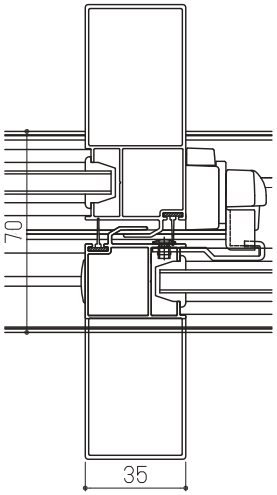
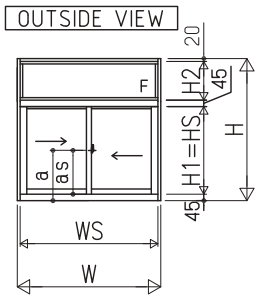
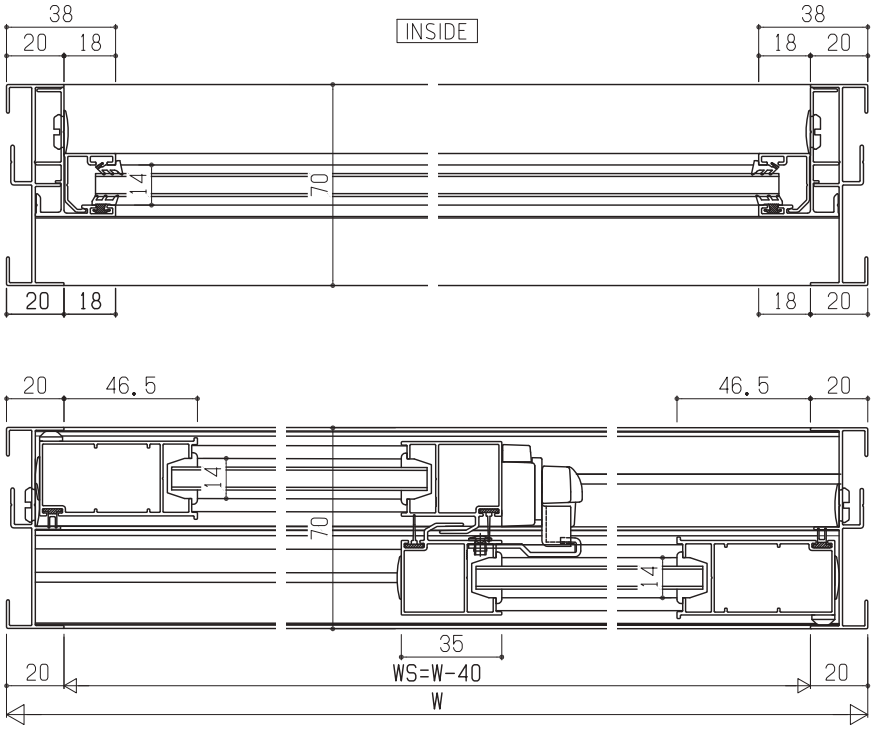
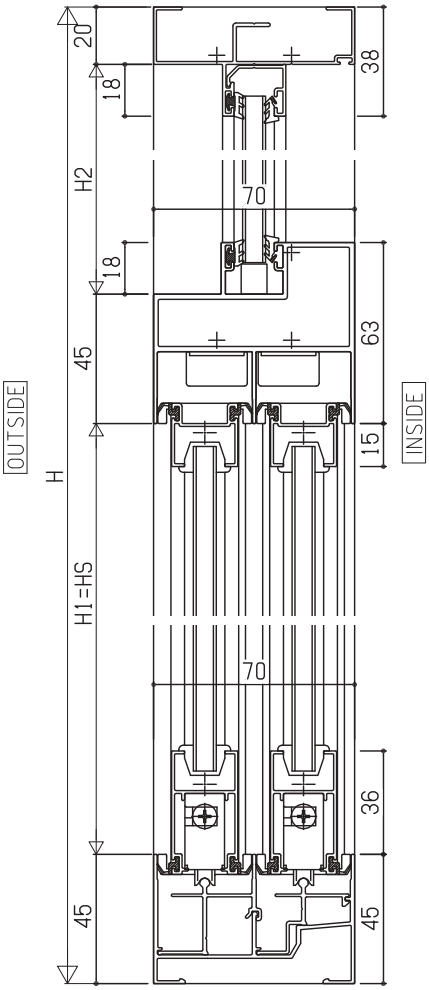


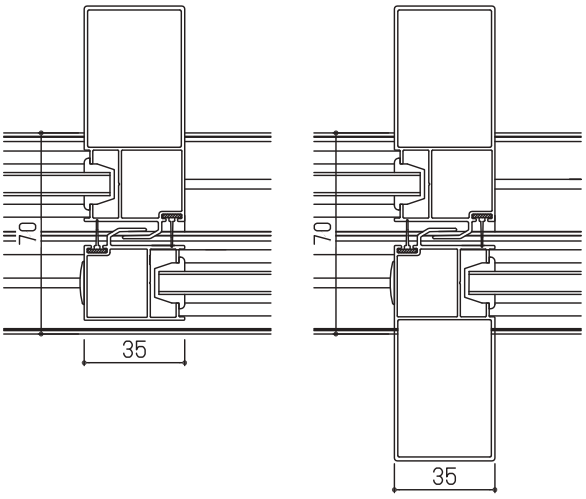
C TYPE





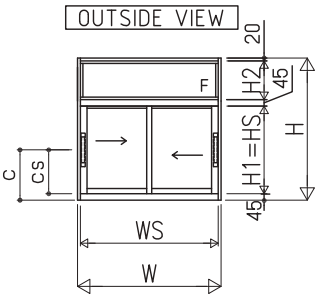
A TYPE

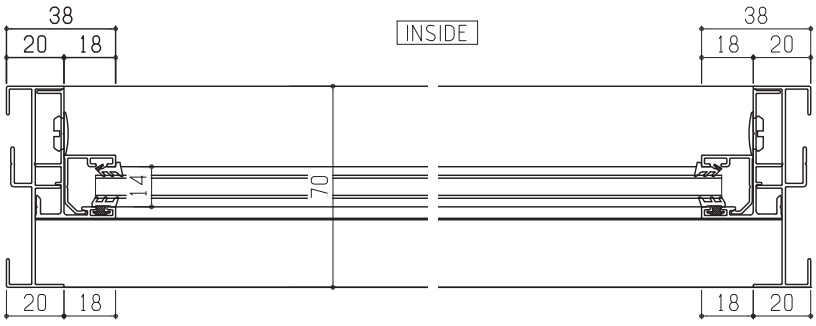


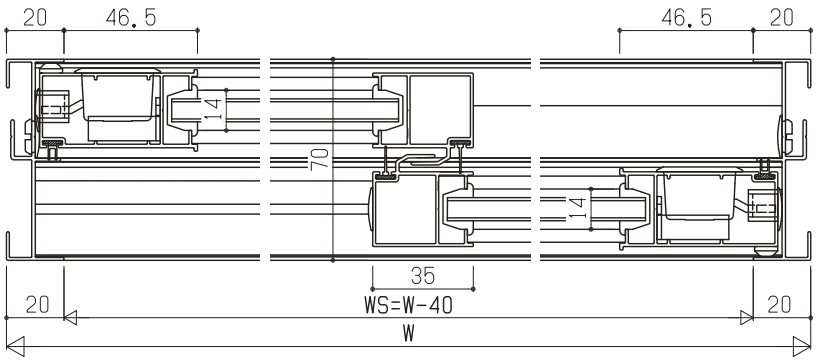


B TYPE

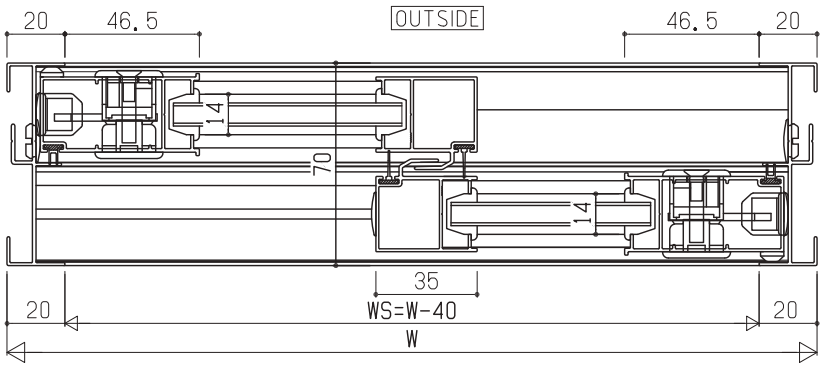
C TYPE







A TYPE



Hook Lock with key

OUTSIDE

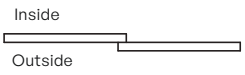
FIX/SLIDING 2 LEAVES/FIX

Performance

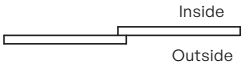
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

Variation

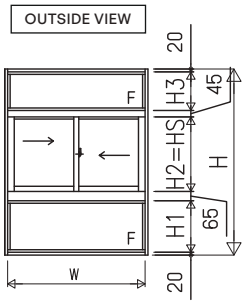
2 LEAF STANDARD



2 LEAF REVERSE



Standard Specification

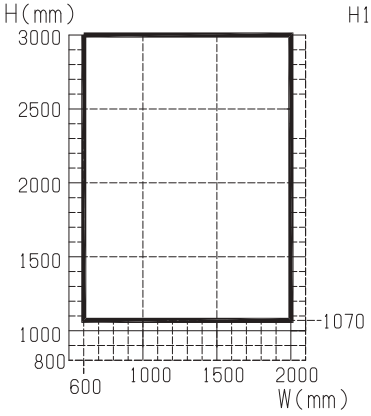


Crescent Height : as
- H2/2
- 600
- Custom

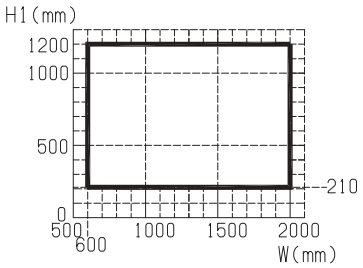
Hook Lock Height : c
- H2/2
- 600
- Custom

Size Limitation

WH size



H1 size



Glass thickness
5, 6, 8 mm

Specifications

Selected parts :

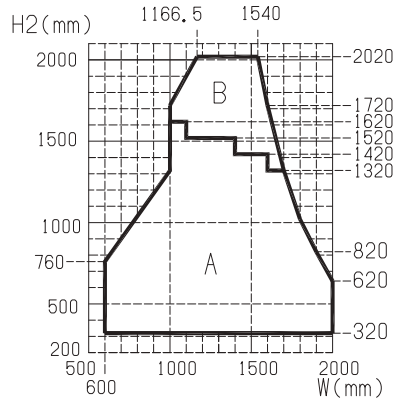
Crescent, Hook Lock, Hook Lock with key

Glass

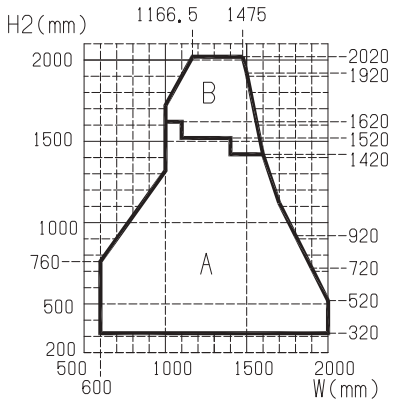
	Glass Size	Qty	Thickness
SL	(W/2-66)×(H2-37)	2	5,6,8
FIX1	(W-62)×(H1-22)	1	5,6,8
FIX2	(W-62)×(H3-22)	1	5,6,8

Size Limitation

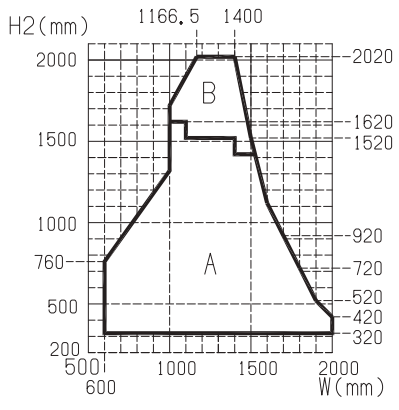
H2 size



Glass thickness 5 mm



Glass thickness 6 mm

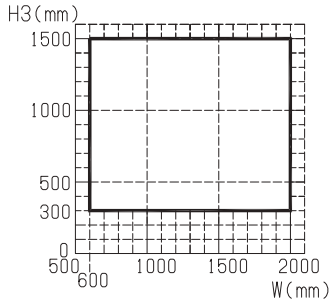


Glass thickness 8 mm

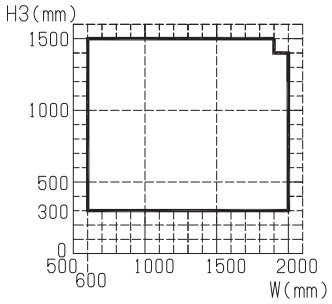
FIX/SLIDING 2 LEAVES**/FIX**
SIZE LIMITATION & PRICE LIST

Size Limitation

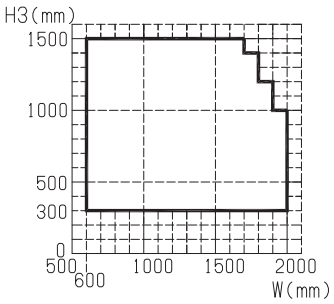
H3 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

Price List

1 See the price list below for the upper FIX

2 See page **12** for the middle Sliding

3 See the price list below for the lower FIX

Price : 1 + 2 + 3

FIX (Transom Price Included)

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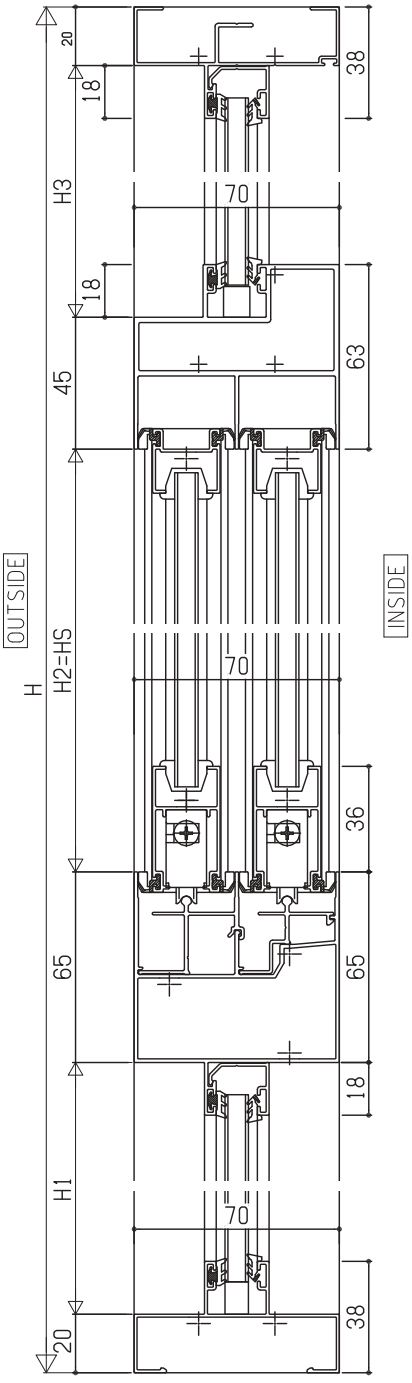
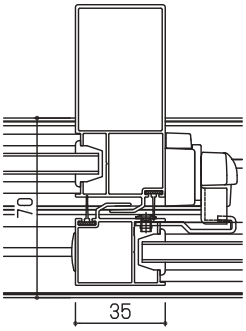
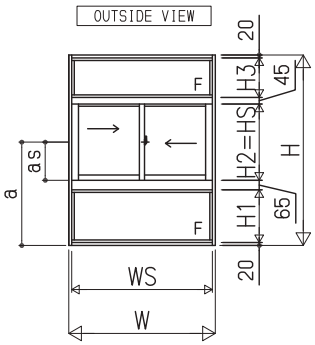
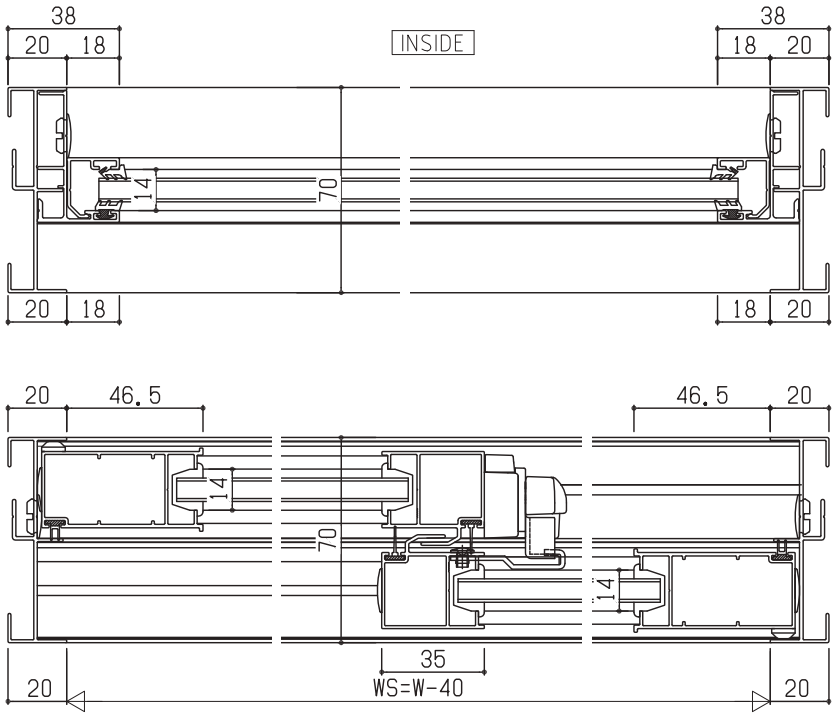
H (mm) \ W (mm)	600	601-700	701-800	801-900	901-1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000
300	0.54	0.56	0.58	0.60	0.64	0.66	0.68	0.70	0.72	0.74	0.76	0.78	0.81	0.83	0.85
301 ~ 400	0.56	0.58	0.60	0.63	0.66	0.68	0.71	0.73	0.75	0.77	0.79	0.81	0.83	0.85	0.87
401 ~ 500	0.59	0.61	0.63	0.65	0.69	0.71	0.73	0.75	0.77	0.79	0.81	0.83	0.85	0.88	0.90
501 ~ 600	0.61	0.63	0.65	0.67	0.71	0.73	0.76	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92
601 ~ 700	0.64	0.66	0.68	0.70	0.74	0.76	0.78	0.80	0.82	0.84	0.86	0.88	0.90	0.92	0.94
701 ~ 800	0.66	0.68	0.70	0.72	0.76	0.78	0.80	0.83	0.85	0.87	0.89	0.91	0.93	0.95	0.97
801 ~ 900	0.69	0.71	0.73	0.75	0.79	0.81	0.83	0.85	0.87	0.89	0.91	0.93	0.96	0.98	1.00
901 ~ 1,000	0.71	0.73	0.75	0.78	0.81	0.83	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.02
1,001 ~ 1,100	0.74	0.76	0.78	0.80	0.84	0.86	0.88	0.90	0.92	0.94	0.96	0.98	1.00	1.03	1.05
1,101 ~ 1,200	0.76	0.78	0.80	0.82	0.86	0.88	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07
1,201 ~ 1,300	0.79	0.81	0.83	0.85	0.89	0.91	0.93	0.95	0.97	0.99	1.01	1.03	1.05	1.07	1.09
1,301 ~ 1,400	0.81	0.83	0.86	0.88	0.91	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.10	1.12
1,401 ~ 1,500	0.84	0.86	0.88	0.90	0.94	0.96	0.98	1.00	1.02	1.04	1.06	1.08	1.11	1.13	1.15


OUTSIDE
INSIDE
H
H2=HS
H3
H1
20
18
38
70
63
45
36
65
18
20

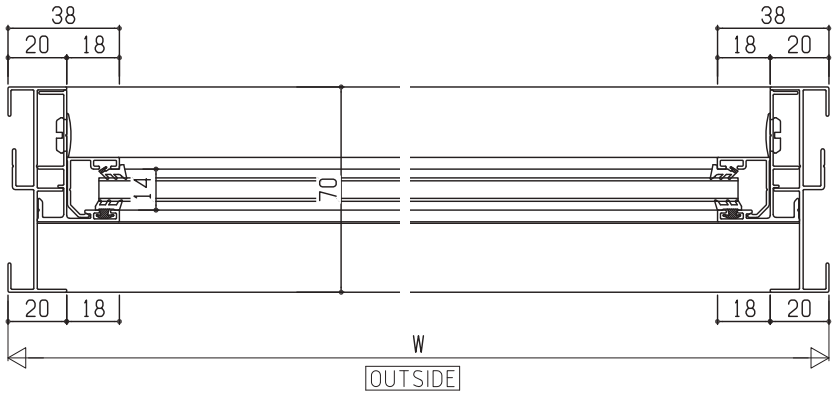

70
35

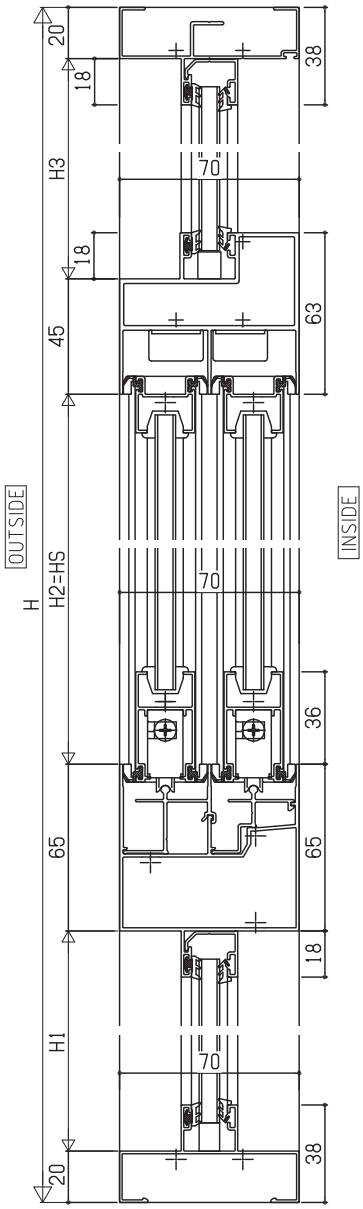

OUTSIDE VIEW
20
H3
45
H2=HS
H
a
as
H1
65
20
WS
W

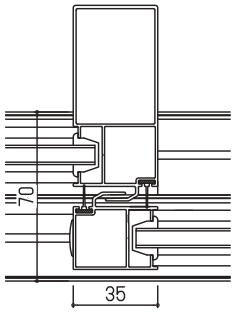
B TYPE

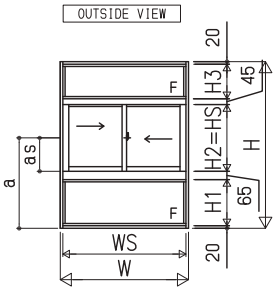

38
20
18
INSIDE
14
70
46.5
35
WS=W-40

TYPE A


38
20
18
14
70
W
OUTSIDE







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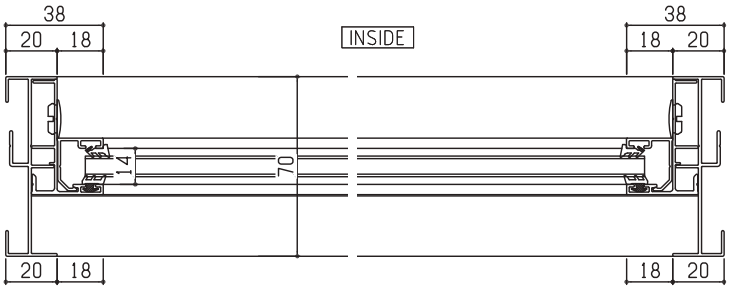
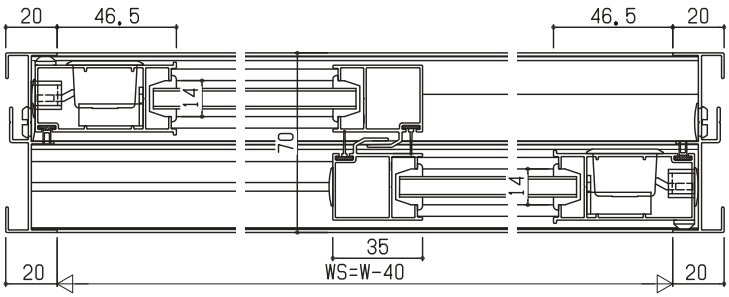
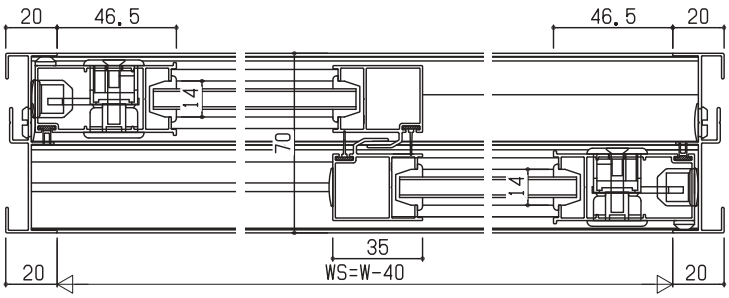
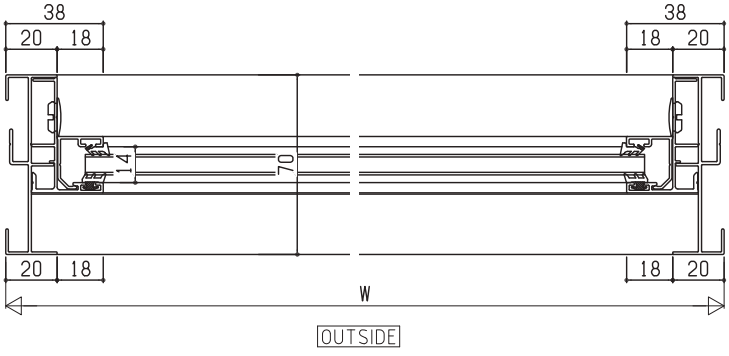




A TYPE



Hook Lock with key



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 :

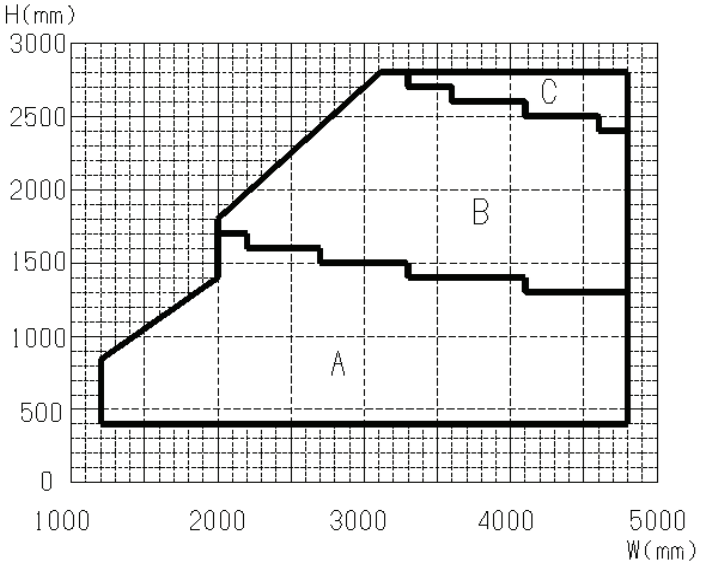
Crescent, Hook Lock, Hook Lock with key

Glass

Glass Size	Qty	Thickness
(W/4-64)×(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

SLIDING 4 LEAVES
PRICE LIST

CRESCENT

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W (mm) / H (mm)	1,200	1201–1,300	1301–1,400	1401–1,500	1501–1,600	1601–1,700	1701–1,800	1801–1,900	1901–2,000	2001–2,100	2101–2,200	2201–2,300	2301–2,400	2401–2,500	2501–2,600	2601–2,700	2701–2,800	2801–2,900	2901–3,000
400	1.80	1.84	1.89	1.93	1.97	2.02	2.06	2.11	2.16	2.21	2.25	2.29	2.34	2.38	2.43	2.47	2.51	2.56	2.61
401 ~ 500	1.89	1.93	1.97	2.02	2.06	2.10	2.15	2.19	2.25	2.29	2.34	2.38	2.42	2.47	2.51	2.56	2.60	2.64	2.69
501 ~ 600	1.97	2.02	2.06	2.10	2.15	2.19	2.23	2.28	2.34	2.38	2.42	2.47	2.51	2.55	2.60	2.64	2.69	2.73	2.78
601 ~ 700	2.06	2.10	2.15	2.19	2.23	2.28	2.32	2.37	2.42	2.47	2.51	2.55	2.60	2.64	2.69	2.73	2.77	2.82	2.87
701 ~ 800	2.14	2.19	2.23	2.28	2.32	2.36	2.41	2.45	2.51	2.55	2.60	2.64	2.68	2.73	2.77	2.82	2.86	2.90	2.95
801 ~ 900		2.28	2.32	2.36	2.41	2.45	2.49	2.54	2.60	2.64	2.68	2.73	2.77	2.81	2.86	2.90	2.95	2.99	3.04
901 ~ 1,000			2.41	2.46	2.50	2.54	2.59	2.63	2.69	2.73	2.78	2.82	2.86	2.91	2.95	3.00	3.04	3.08	3.13
1,001 ~ 1,100					2.60	2.64	2.68	2.73	2.78	2.83	2.87	2.92	2.96	3.00	3.05	3.09	3.14	3.18	3.23
1,101 ~ 1,200						2.73	2.77	2.82	2.87	2.92	2.96	3.00	3.05	3.09	3.13	3.18	3.22	3.27	3.32
1,201 ~ 1,300							2.86	2.90	2.96	3.00	3.05	3.09	3.13	3.18	3.22	3.27	3.31	3.35	3.40
1,301 ~ 1,400									3.04	3.09	3.13	3.18	3.22	3.26	3.31	3.35	3.40	3.44	3.49
1,401 ~ 1,500										3.18	3.22	3.26	3.31	3.35	3.39	3.44	3.48	3.53	3.58
1,501 ~ 1,600										3.27	3.32	3.36	3.41	3.45	3.49	3.54	4.03	4.07	4.13
1,601 ~ 1,700										3.36	3.41	3.92	3.96	4.01	4.05	4.10	4.14	4.18	4.23
1,701 ~ 1,800										3.94	3.99	4.03	4.07	4.12	4.16	4.21	4.25	4.29	4.34
1,801 ~ 1,900										4.05	4.09	4.14	4.18	4.23	4.27	4.31	4.36	4.40	4.45
1,901 ~ 2,000											4.20	4.25	4.29	4.34	4.38	4.42	4.47	4.51	4.56
2,001 ~ 2,100												4.36	4.40	4.44	4.49	4.53	4.58	4.62	4.67
2,101 ~ 2,200													4.51	4.55	4.60	4.64	4.69	4.73	4.78
2,201 ~ 2,300														4.67	4.72	4.76	4.80	4.85	4.90
2,301 ~ 2,400															4.83	4.87	4.91	4.96	5.01
2,401 ~ 2,500																4.98	5.02	5.07	5.12
2,501 ~ 2,600																		5.19	5.24
2,601 ~ 2,700																			5.35
2,701 ~ 2,800																			

W (mm) / H (mm)	3,100	3101–3,200	3201–3,300	3301–3,400	3401–3,500	3501–3,600	3601–3,700	3701–3,800	3801–3,900	3901–4,000	4001–4,100	4101–4,200	4201–4,300	4301–4,400	4401–4,500	4501–4,600	4601–4,700	4701–4,800
400	2.65	2.69	2.74	2.78	2.83	2.87	2.91	2.96	3.00	3.06	3.10	3.15	3.19	3.23	3.28	3.32	3.37	3.41
401 ~ 500	2.74	2.78	2.83	2.87	2.91	2.96	3.00	3.04	3.09	3.14	3.19	3.23	3.28	3.32	3.36	3.41	3.45	3.50
501 ~ 600	2.82	2.87	2.91	2.96	3.00	3.04	3.09	3.13	3.18	3.23	3.28	3.32	3.36	3.41	3.45	3.49	3.54	3.58
601 ~ 700	2.91	2.95	3.00	3.04	3.09	3.13	3.17	3.22	3.26	3.32	3.36	3.41	3.45	3.49	3.54	3.58	3.63	3.67
701 ~ 800	3.00	3.04	3.09	3.13	3.17	3.22	3.26	3.30	3.35	3.40	3.45	3.49	3.54	3.58	3.62	3.67	3.71	3.76
801 ~ 900	3.08	3.13	3.17	3.22	3.26	3.30	3.35	3.39	3.44	3.49	3.54	3.58	3.62	3.67	3.71	3.75	3.80	3.84
901 ~ 1,000	3.18	3.22	3.26	3.31	3.35	3.40	3.44	3.48	3.53	3.58	3.63	3.67	3.72	3.76	3.80	3.85	3.89	3.94
1,001 ~ 1,100	3.27	3.32	3.36	3.41	3.45	3.49	3.54	3.58	3.62	3.68	3.73	3.77	3.81	3.86	3.90	3.94	3.99	4.03
1,101 ~ 1,200	3.36	3.40	3.45	3.49	3.54	3.58	3.62	3.67	3.71	3.77	3.81	3.86	3.90	3.94	3.99	4.03	4.08	4.12
1,201 ~ 1,300	3.45	3.49	3.53	3.58	3.62	3.67	3.71	3.75	3.80	3.85	3.90	3.94	3.99	4.03	4.07	4.12	4.16	4.21
1,301 ~ 1,400	3.53	3.58	3.62	3.67	3.71	3.75	3.80	3.84	3.88	3.94	3.99	4.43	4.48	4.52	4.56	4.61	4.65	4.70
1,401 ~ 1,500	3.62	3.66	3.71	4.18	4.22	4.27	4.31	4.35	4.40	4.45	4.50	4.54	4.59	4.63	4.67	4.72	4.76	4.81
1,501 ~ 1,600	4.17	4.21	4.26	4.30	4.34	4.39	4.43	4.48	4.52	4.58	4.62	4.66	4.71	4.75	4.80	4.84	4.88	4.93
1,601 ~ 1,700	4.28	4.32	4.37	4.41	4.45	4.50	4.54	4.59	4.63	4.69	4.73	4.77	4.82	4.86	4.90	4.95	4.99	5.04
1,701 ~ 1,800	4.39	4.43	4.47	4.52	4.56	4.61	4.65	4.69	4.74	4.79	4.84	4.88	4.93	4.97	5.01	5.06	5.10	5.15
1,801 ~ 1,900	4.50	4.54	4.58	4.63	4.67	4.72	4.76	4.80	4.85	4.90	4.95	4.99	5.04	5.08	5.12	5.17	5.21	5.25
1,901 ~ 2,000	4.61	4.65	4.69	4.74	4.78	4.82	4.87	4.91	4.96	5.01	5.06	5.10	5.14	5.19	5.23	5.28	5.32	5.36
2,001 ~ 2,100	4.71	4.76	4.80	4.85	4.89	4.93	4.98	5.02	5.07	5.12	5.17	5.21	5.25	5.30	5.34	5.38	5.43	5.47
2,101 ~ 2,200	4.82	4.87	4.91	4.96	5.00	5.04	5.09	5.13	5.17	5.23	5.27	5.32	5.36	5.41	5.45	5.49	5.54	5.58
2,201 ~ 2,300	4.94	4.99	5.03	5.07	5.12	5.16	5.21	5.25	5.29	5.35	5.39	5.44	5.48	5.53	5.57	5.61	5.66	5.70
2,301 ~ 2,400	5.05	5.10	5.14	5.18	5.23	5.27	5.32	5.36	5.40	5.46	5.50	5.55	5.59	5.63	5.68	5.72	5.77	5.81
2,401 ~ 2,500	5.16	5.20	5.25	5.29	5.34	5.38	5.42	5.47	5.51	5.57	5.61	5.66	5.70	5.74	5.79	5.83	6.21	6.25
2,501 ~ 2,600	5.28	5.33	5.37	5.41	5.46	5.50	5.55	5.59	5.63	5.69	5.73	6.12	6.16	6.21	6.25	6.30	6.34	6.38
2,601 ~ 2,700	5.39	5.44	5.48	5.52	5.57	5.61	6.01	6.05	6.10	6.15	6.20	6.24	6.29	6.33	6.37	6.42	6.46	6.50
2,701 ~ 2,800	5.50	5.55	5.59	6.00	6.04	6.09	6.13	6.17	6.22	6.27	6.32	6.36	6.41	6.45	6.49	6.54	6.58	6.63

Stile A type

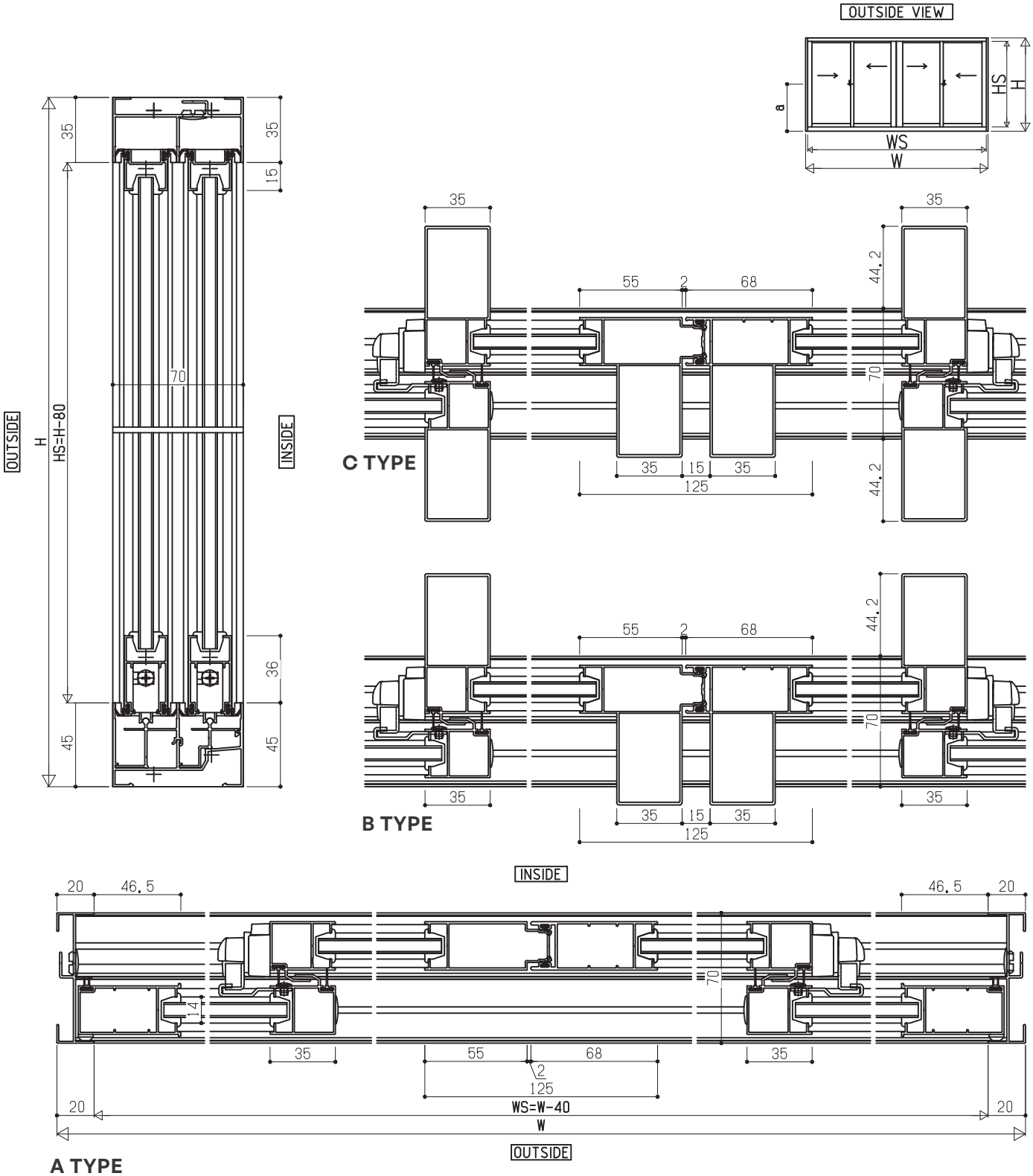
Stile B type

Stile C type

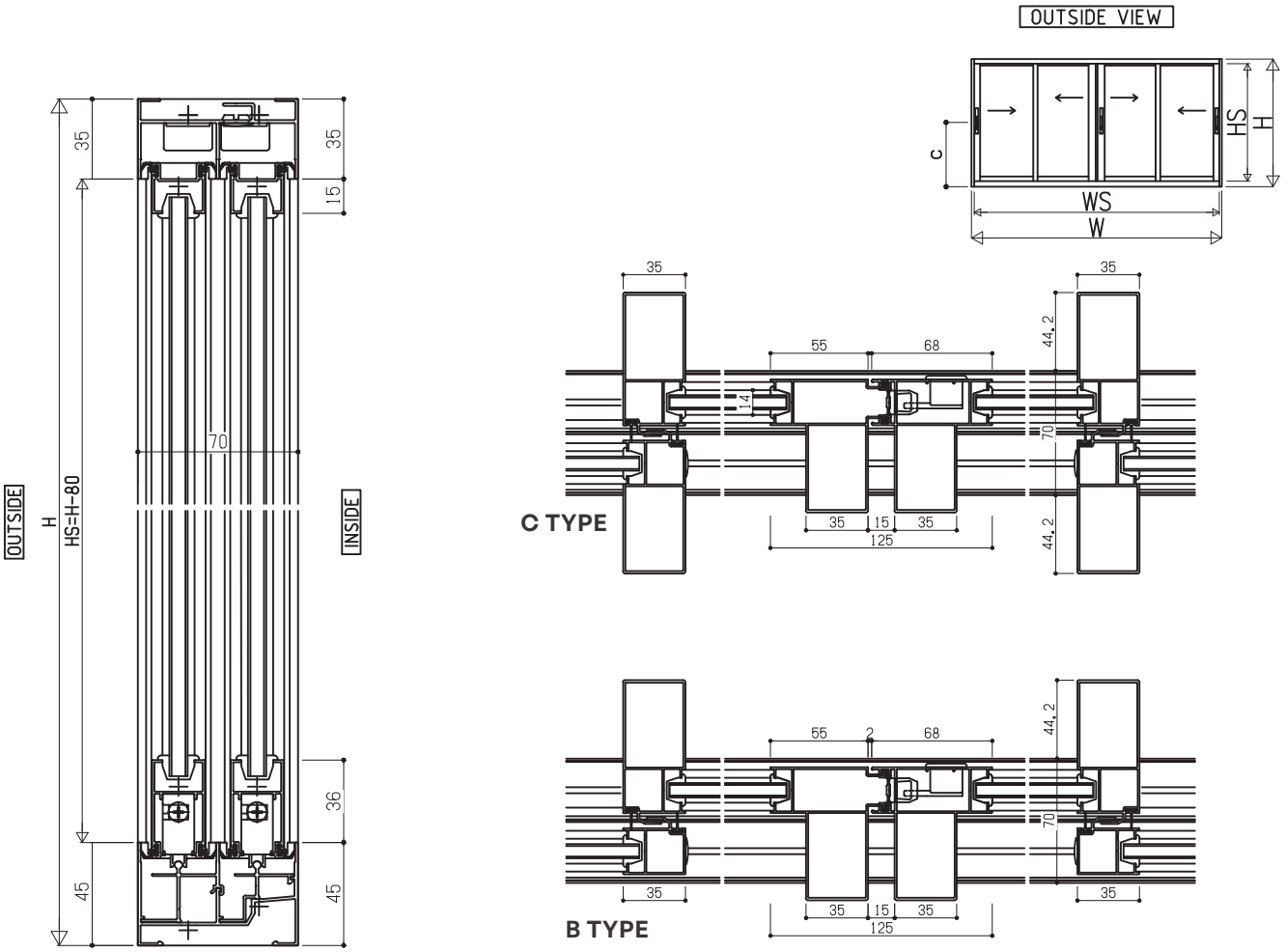
* For the specifications with **Hook Lock**, 0.31 juta/set will be added to the price above

*For the specifications with **Hook Lock with key**, 0.76 juta/set will be added to the price above.

*This price is not included glass, assembling fee, delivery fee and installation fee.



* 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.

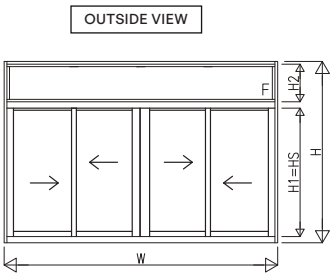
FIX/SLIDING 4 LEAVES

W>2400 FIX will be divided by Muntin

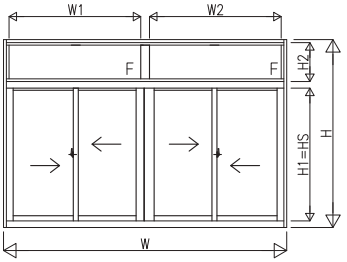
Performance

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

Standard Specification



Without Muntin



With Muntin

Crescent Height : as
- H1/2
- 600
- Custom

Hook Lock Height : c
- H1/2
- 600
- Custom

Glass

Without Muntin

	Glass Size	Qty	Thickness
SL	(W/4-64)×(H1-37)	4	5,6,8
FIX	(W-62)×(H2-22)	1	5,6,8

With Muntin

	Glass Size	Qty	Thickness
SL	(W/4-64)×(H1-37)	4	5,6,8
FIX	(W/2-54,5)×(H2-22)	2	5,6,8

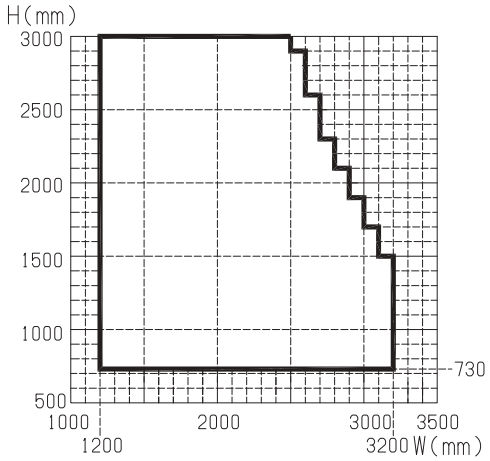
Specifications

Selected parts :

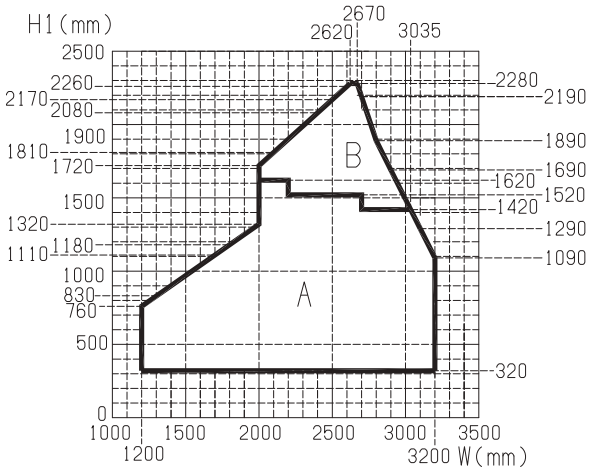
Crescent, Hook Lock, Hook Lock with key

Size Limitation

WH size



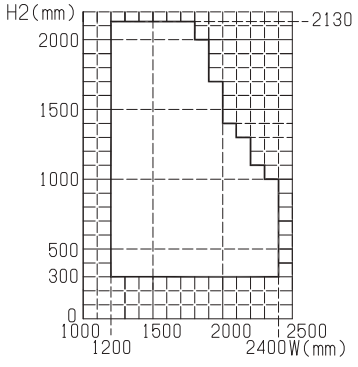
H1 size



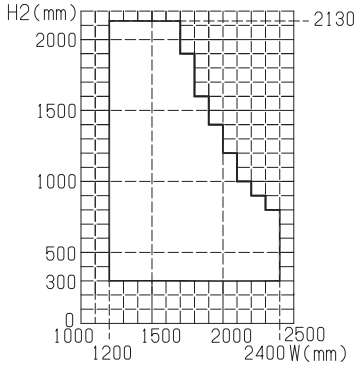
FIX/SLIDING 4 LEAVES
SIZE LIMITATION & PRICE LIST

Size Limitation

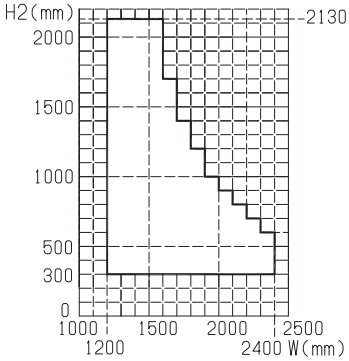
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

Size Limitation

1 See the price list below for the upper FIX

2 See page **28** for the lower Sliding window

Price : 1 + 2

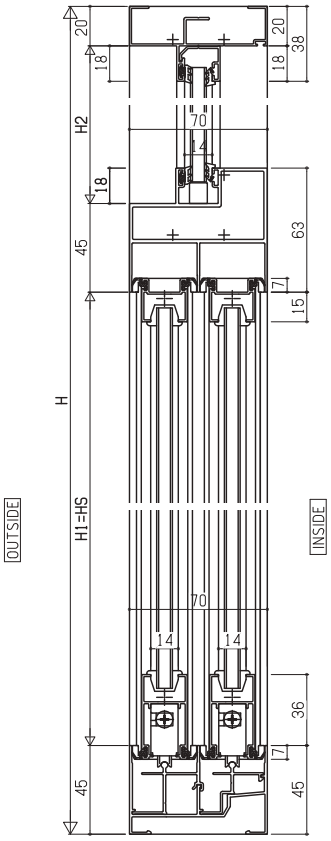
***The price list below is for 1 unit of FIX.**

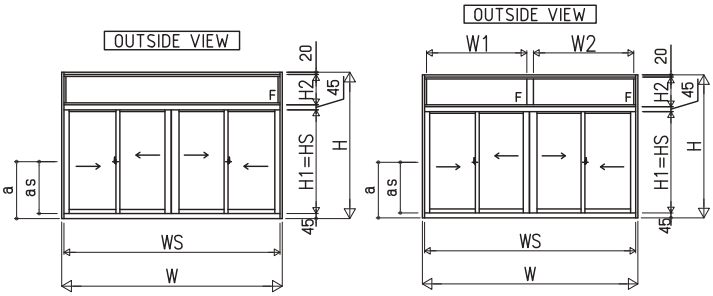
When W>2400, 1 unit will be divided to 2 units by Muntin, and the price count double

FIX (Transom Price Included)

Juta Rp

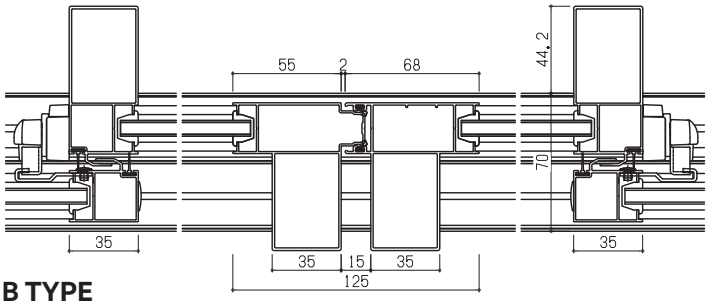
H (mm) \ W (mm)			1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000	2,001-2,100	2,101-2,200	2,201-2,300	2,301-2,400
		300	0.86	0.88	0.90	0.93	0.95	0.98	1.00	1.02	1.04	1.07	0.98	1.01	1.03
301	~	400	0.88	0.90	0.93	0.95	0.98	1.00	1.02	1.05	1.07	1.09	1.01	1.03	1.06
401	~	500	0.91	0.93	0.95	0.98	1.00	1.03	1.05	1.07	1.09	1.12	1.03	1.06	1.08
501	~	600	0.93	0.95	0.98	1.00	1.03	1.05	1.07	1.10	1.12	1.14	1.06	1.08	1.11
601	~	700	0.96	0.98	1.00	1.03	1.05	1.08	1.10	1.12	1.14	1.17	1.08	1.10	1.13
701	~	800	0.98	1.00	1.03	1.05	1.08	1.10	1.12	1.15	1.17	1.19	1.11	1.13	1.15
801	~	900	1.01	1.03	1.05	1.08	1.10	1.13	1.15	1.17	1.19	1.22	1.13	1.16	1.18
901	~	1,000	1.03	1.05	1.08	1.10	1.13	1.15	1.17	1.20	1.22	1.24	1.16	1.18	1.21
1,001	~	1,100	1.06	1.08	1.10	1.13	1.15	1.18	1.20	1.22	1.24	1.27	1.18	1.21	
1,101	~	1,200	1.08	1.10	1.13	1.15	1.18	1.20	1.22	1.25	1.27	1.29	1.21		
1,201	~	1,300	1.11	1.13	1.15	1.18	1.20	1.23	1.25	1.27	1.29	1.32	1.23		
1,301	~	1,400	1.13	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.34			
1,401	~	1,500	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.34				
1,501	~	1,600	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.35	1.37				
1,601	~	1,700	1.21	1.23	1.25	1.28	1.30	1.33	1.35	1.37	1.39				
1,701	~	1,800	1.23	1.25	1.28	1.30	1.33	1.35	1.37	1.40					
1,801	~	1,900	1.26	1.28	1.30	1.33	1.35	1.38	1.40	1.42					
1,901	~	2,000	1.28	1.31	1.33	1.35	1.38	1.40	1.43	1.45					
2,001	~	2,100	1.31	1.33	1.35	1.38	1.40	1.43	1.45						
2,101	~	2,200	1.33	1.35	1.38	1.40	1.43	1.45	1.47						





Without Muntin

With Muntin



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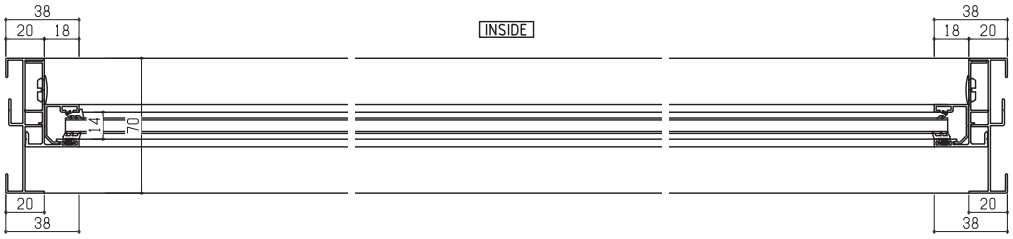

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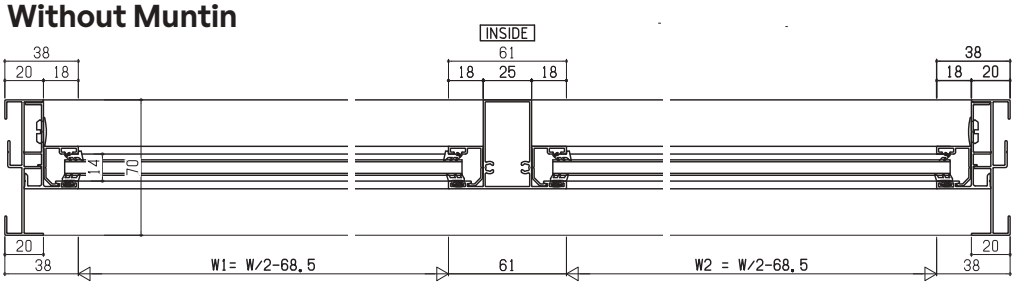
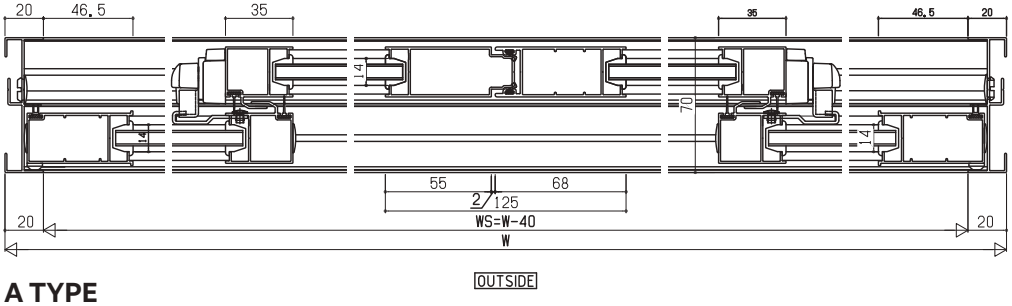


With Muntin



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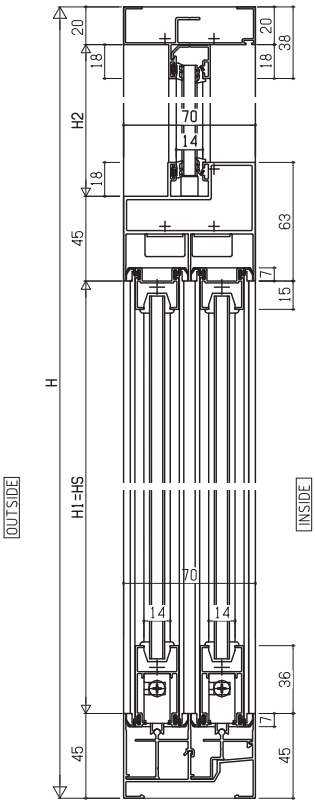

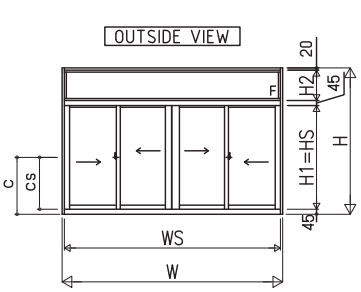

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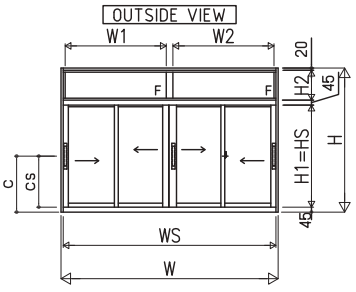

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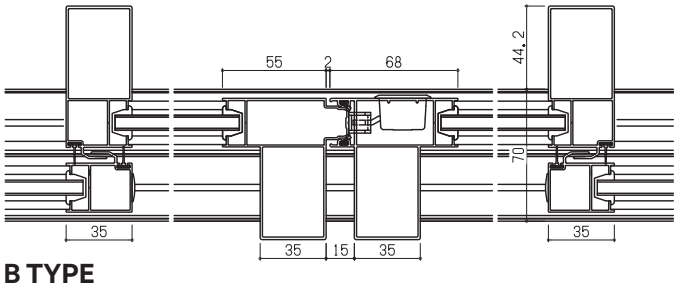

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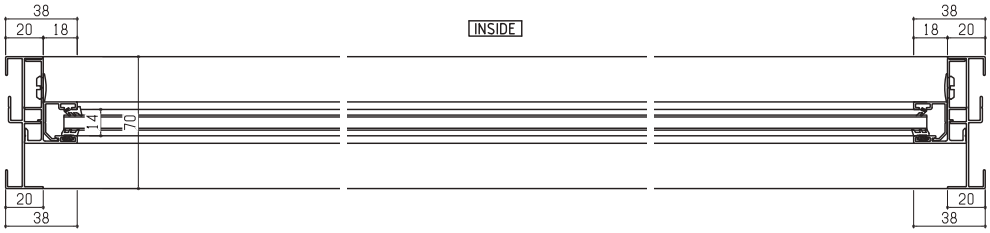

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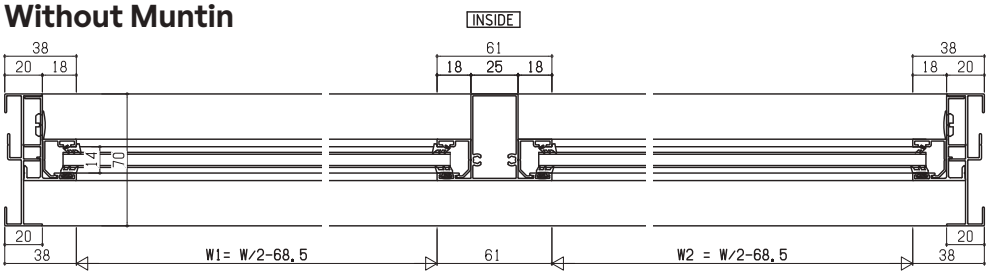

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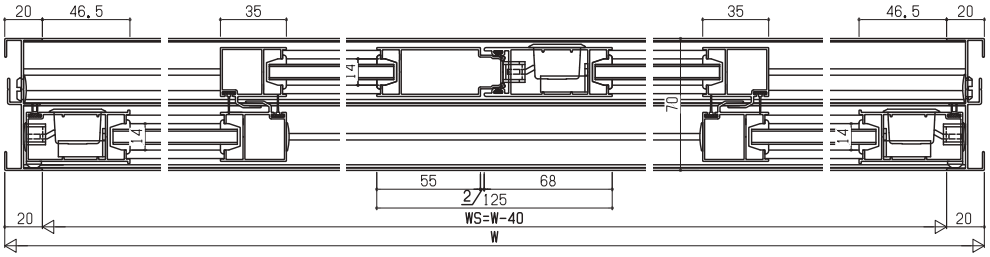

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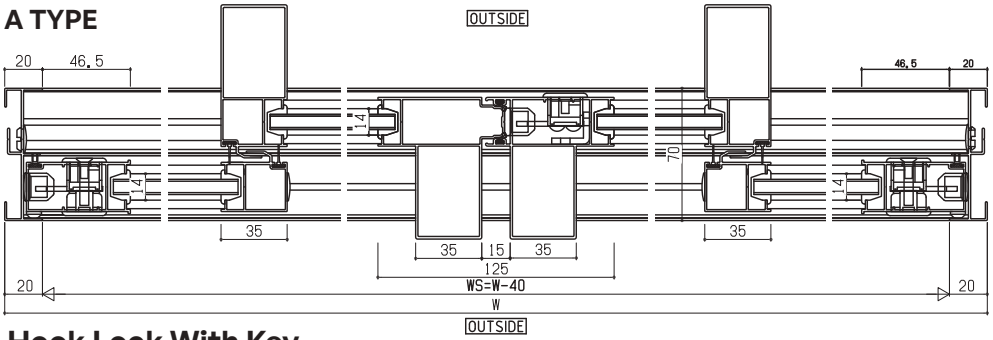


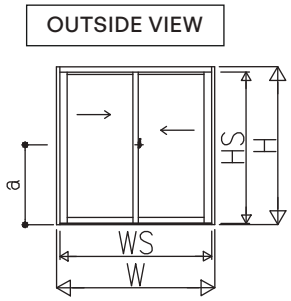
Hook Lock With Key

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 :

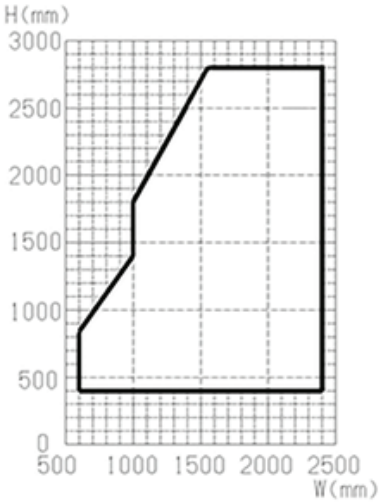
Crescent, Hook Lock, Hook Lock with key

Glass

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

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

Size Limitation



SLIDING FLAT SILL 2 LEAVES
PRICE LIST

CRESCENT

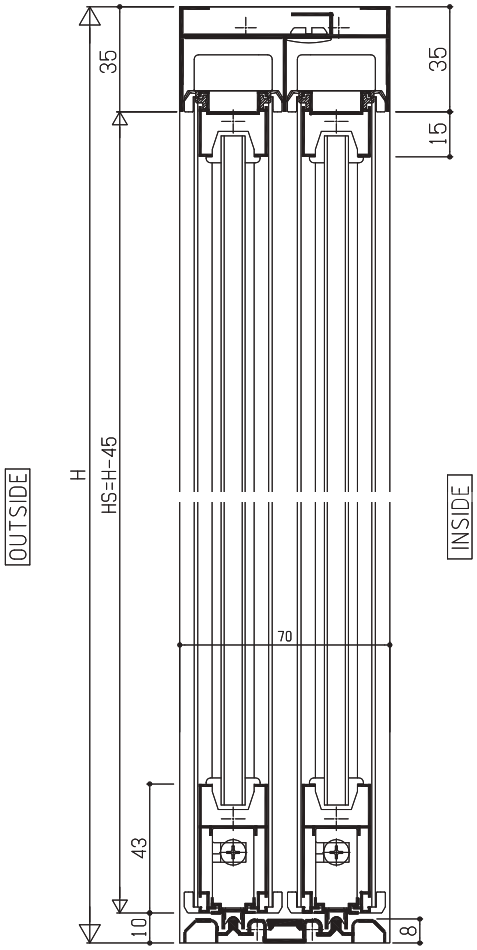
Juta Rp

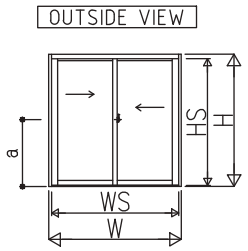
W (mm) / H (mm)	600	601–700	701–800	801–900	901–1,000	1001–1,100	1101–1,200	1201–1,300	1301–1,400	1401–1,500	1501–1,600	1601–1,700	1701–1,800	1801–1,900	1901–2,000	2001–2,100	2101–2,200	2201–2,300	2301–2,400
400	1.02	1.06	1.11	1.15	1.20	1.24	1.28	1.33	1.37	1.42	1.46	1.51	1.55	1.59	1.64	1.68	1.73	1.77	1.82
401 ～ 500	1.08	1.12	1.17	1.21	1.26	1.30	1.34	1.39	1.43	1.48	1.52	1.56	1.61	1.65	1.70	1.74	1.79	1.83	1.88
501 ～ 600	1.14	1.18	1.23	1.27	1.32	1.36	1.40	1.45	1.49	1.54	1.58	1.62	1.67	1.71	1.76	1.80	1.85	1.89	1.94
601 ～ 700	1.20	1.24	1.29	1.33	1.38	1.42	1.46	1.51	1.55	1.60	1.64	1.68	1.73	1.77	1.82	1.86	1.91	1.95	2.00
701 ～ 800	1.26	1.31	1.35	1.39	1.44	1.48	1.52	1.57	1.61	1.66	1.70	1.74	1.79	1.83	1.88	1.92	1.97	2.01	2.05
801 ～ 900	1.32	1.37	1.41	1.45	1.50	1.54	1.58	1.63	1.67	1.72	1.76	1.80	1.85	1.89	1.94	1.98	2.03	2.07	2.11
901 ～ 1,000		1.43	1.47	1.52	1.56	1.60	1.65	1.69	1.73	1.78	1.82	1.87	1.91	1.95	2.00	2.04	2.09	2.13	2.18
1,001 ～ 1,100			1.53	1.58	1.62	1.66	1.71	1.75	1.80	1.84	1.88	1.93	1.97	2.01	2.06	2.10	2.15	2.19	2.23
1,101 ～ 1,200			1.60	1.64	1.68	1.73	1.77	1.81	1.86	1.90	1.94	1.99	2.03	2.07	2.12	2.16	2.21	2.25	2.29
1,201 ～ 1,300				1.70	1.74	1.79	1.83	1.87	1.92	1.96	2.00	2.05	2.09	2.13	2.18	2.22	2.27	2.31	2.36
1,301 ～ 1,400					1.81	1.85	1.89	1.93	1.98	2.02	2.06	2.11	2.15	2.20	2.24	2.28	2.33	2.37	2.42
1,401 ～ 1,500					1.87	1.91	1.95	2.00	2.04	2.08	2.12	2.17	2.21	2.26	2.30	2.34	2.39	2.43	2.48
1,501 ～ 1,600					1.93	1.97	2.02	2.06	2.10	2.15	2.19	2.23	2.28	2.32	2.36	2.41	2.45	2.50	2.54
1,601 ～ 1,700					1.99	2.04	2.08	2.12	2.16	2.21	2.25	2.29	2.34	2.38	2.43	2.47	2.51	2.56	2.60
1,701 ～ 1,800					2.06	2.10	2.14	2.18	2.23	2.27	2.31	2.35	2.40	2.44	2.49	2.53	2.57	2.62	2.66
1,801 ～ 1,900						2.16	2.20	2.25	2.29	2.33	2.37	2.42	2.46	2.50	2.55	2.59	2.63	2.68	2.72
1,901 ～ 2,000						2.22	2.26	2.31	2.35	2.39	2.43	2.48	2.52	2.56	2.61	2.65	2.69	2.74	2.78
2,001 ～ 2,100							2.33	2.37	2.41	2.45	2.50	2.54	2.58	2.62	2.67	2.71	2.75	2.80	2.84
2,101 ～ 2,200							2.39	2.43	2.47	2.52	2.56	2.60	2.64	2.69	2.73	2.77	2.82	2.86	2.90
2,201 ～ 2,300								2.49	2.53	2.58	2.62	2.66	2.70	2.75	2.79	2.83	2.88	2.92	2.96
2,301 ～ 2,400								2.55	2.60	2.64	2.68	2.72	2.77	2.81	2.85	2.90	2.94	2.98	3.02
2,401 ～ 2,500									2.66	2.70	2.74	2.79	2.83	2.87	2.91	2.96	3.00	3.04	3.09
2,501 ～ 2,600									2.72	2.76	2.81	2.85	2.89	2.94	2.98	3.02	3.06	3.11	3.15
2,601 ～ 2,700										2.83	2.87	2.91	2.95	3.00	3.04	3.08	3.13	3.17	3.21
2,701 ～ 2,800										2.89	2.93	2.97	3.02	3.06	3.10	3.15	3.19	3.23	3.27

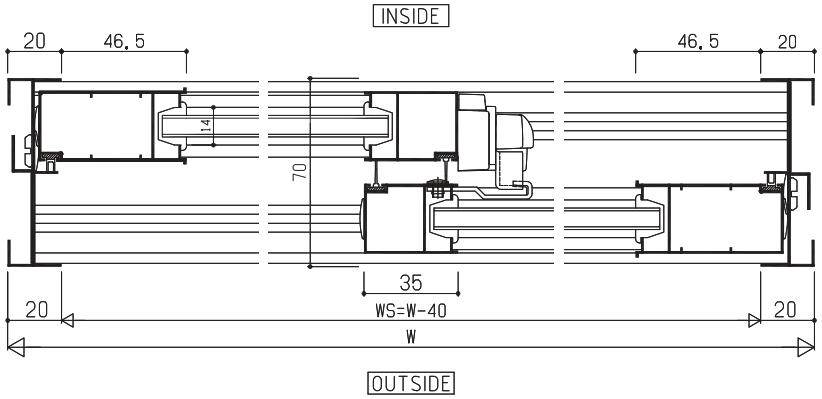
*For the specifications with **Hook Lock**, 0.21 juta/set will be added to the price above

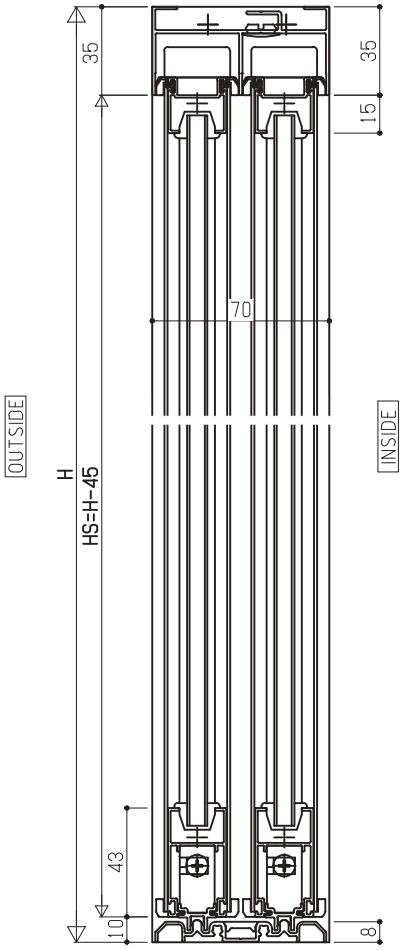
*For the specifications with **Hook Lock with key**, 0.53 juta/set will be added to the price above.

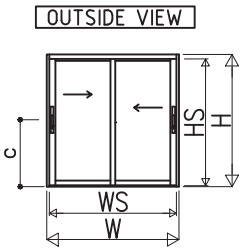
*This price is not included glass, assembling fee, delivery fee and installation fee.

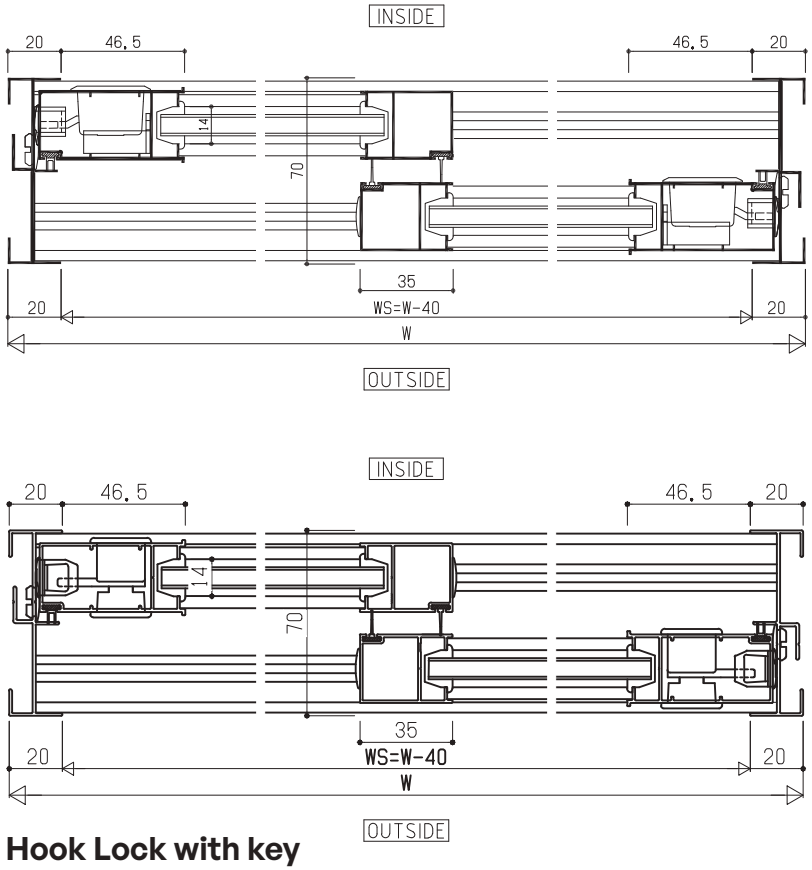

OUTSIDE
INSIDE
H
HS=H-45
35
35
15
70
43
10
8


OUTSIDE VIEW
a
HS
H
WS
W


INSIDE
20
46.5
46.5
20
14
70
35
20
WS=W-40
20
W
OUTSIDE







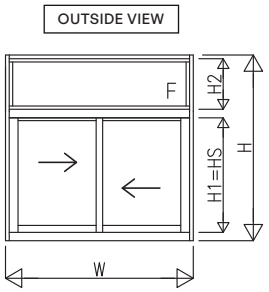
Hook Lock with key

FIX/SLIDING FLAT SILL 2 LEAVES

Performance

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

Standard Specification

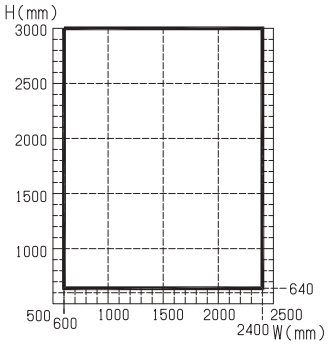


Crescent Height : as
- H1/2
- 600
- Custom

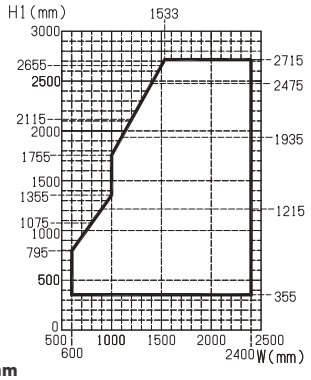
Hook Lock Height : c
- H1/2
- 600
- Custom

Size Limitation

WH size



H1 size



For H>2500 use glass only 6mm & 8mm

Specifications

Selected parts :

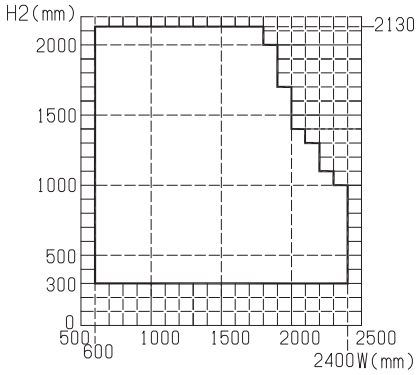
Crescent, Hook Lock, Hook Lock with key

Glass

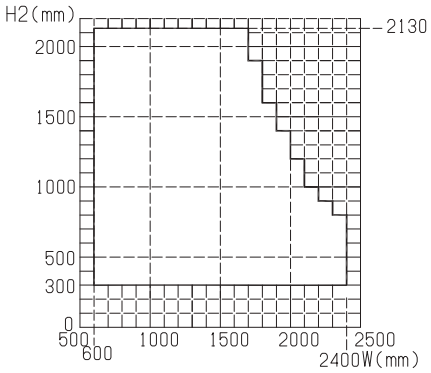
	Glass Size	Qty	Thickness
SL	(W/2-66)×(H1-44)	2	5,6,8
FIX	(W-62)×(H2-22)	1	5,6,8

Size Limitation

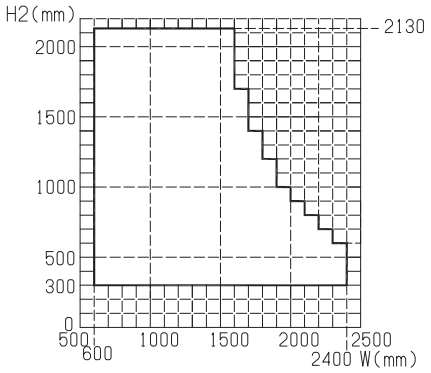
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

FIX/SLIDING FLAT SILL 2 LEAVES
PRICE LIST

1 See the price list below for the upper FIX

2 See page 36 for the lower Sliding window

Price : 1 + 2

FIX (Transom Price Included)

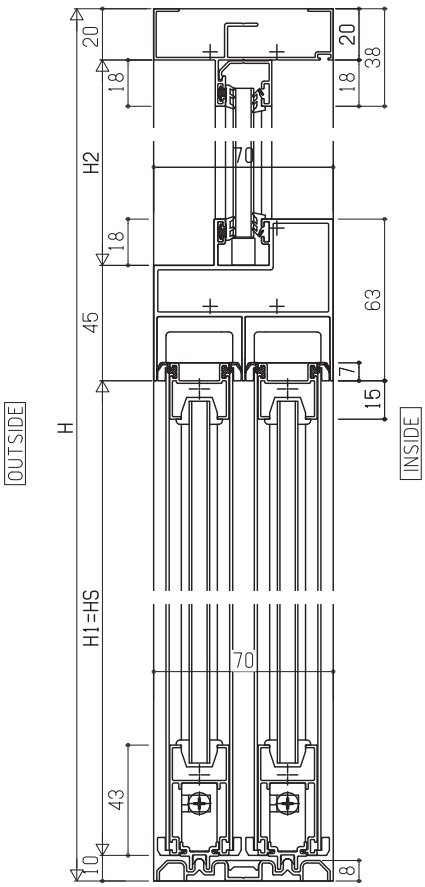
Juta Rp

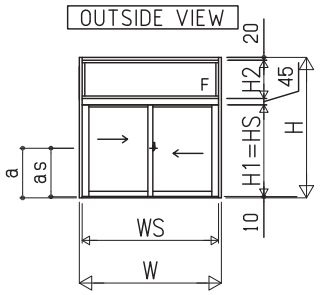
H (mm) \ W (mm)	600	601-700	701-800	801-900	901-1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000	2,001-2,100	2,101-2,200	2,201-2,300	2,301-2,400
300	0.43	0.45	0.47	0.50	0.52	0.54	0.57	0.59	0.62	0.64	0.66	0.69	0.71	0.73	0.76	0.78	0.80	0.83	0.85
301 ~ 400	0.45	0.47	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.66	0.69	0.71	0.74	0.76	0.78	0.81	0.83	0.85	0.88
401 ~ 500	0.48	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.67	0.69	0.71	0.74	0.76	0.78	0.81	0.83	0.85	0.88	0.90
501 ~ 600	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.67	0.69	0.71	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93
601 ~ 700	0.52	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93	0.95
701 ~ 800	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.72	0.74	0.76	0.79	0.81	0.83	0.86	0.88	0.90	0.93	0.95	0.98
801 ~ 900	0.58	0.60	0.62	0.65	0.67	0.69	0.72	0.74	0.77	0.79	0.81	0.84	0.86	0.88	0.91	0.93	0.95	0.98	1.00
901 ~ 1,000	0.60	0.62	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.81	0.84	0.86	0.89	0.91	0.93	0.96	0.98	1.00	1.03
1,001 ~ 1,100	0.63	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.82	0.84	0.86	0.89	0.91	0.93	0.96	0.98	1.00	1.03	
1,101 ~ 1,200	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.82	0.84	0.86	0.89	0.91	0.94	0.96	0.98	1.00	1.03		
1,201 ~ 1,300	0.67	0.70	0.72	0.75	0.77	0.79	0.82	0.84	0.87	0.89	0.91	0.94	0.96	0.98	1.01	1.03	1.05		
1,301 ~ 1,400	0.70	0.72	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.91	0.94	0.96	0.99	1.01	1.03	1.06			
1,401 ~ 1,500	0.73	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.92	0.94	0.96	0.99	1.01	1.03	1.06				
1,501 ~ 1,600	0.75	0.77	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.96	0.99	1.01	1.04	1.06	1.08				
1,601 ~ 1,700	0.77	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.04	1.06	1.08	1.11				
1,701 ~ 1,800	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.97	0.99	1.01	1.04	1.06	1.09	1.11					
1,801 ~ 1,900	0.83	0.85	0.87	0.90	0.92	0.94	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.13					
1,901 ~ 2,000	0.85	0.87	0.90	0.92	0.95	0.97	0.99	1.02	1.04	1.06	1.09	1.11	1.14	1.16					
2,001 ~ 2,100	0.88	0.90	0.92	0.95	0.97	0.99	1.02	1.04	1.07	1.09	1.11	1.14	1.16						
2,101 ~ 2,200	0.90	0.92	0.95	0.97	1.00	1.02	1.04	1.07	1.09	1.11	1.14	1.16	1.19						

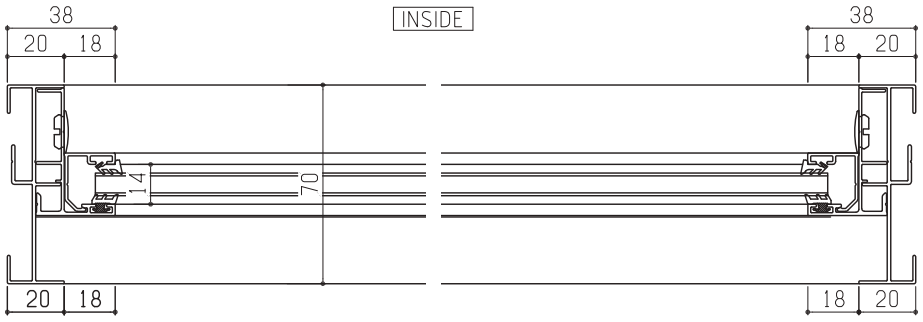
FIX/SLIDING FLAT SILL 2 LEAVES

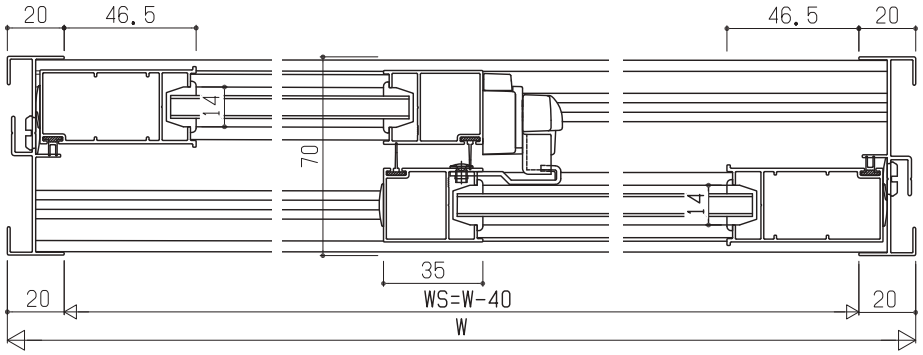
SYSTEM DRAWING

CRESCENT LOCK



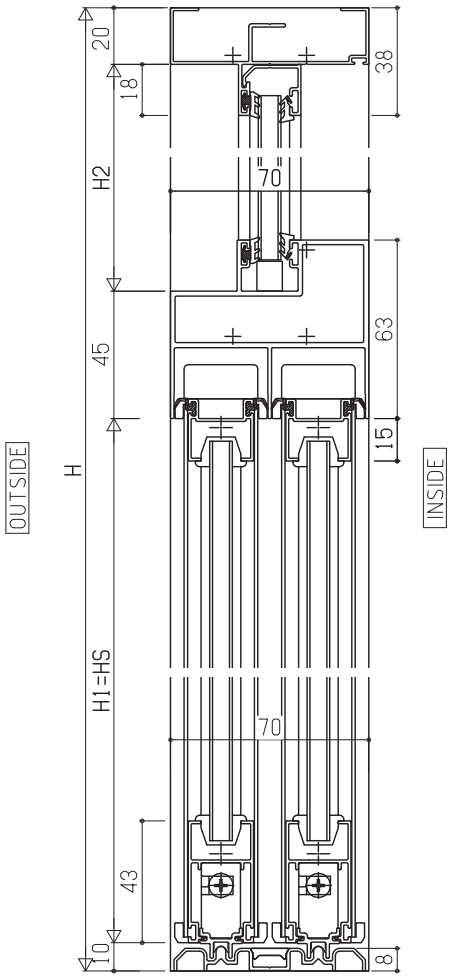


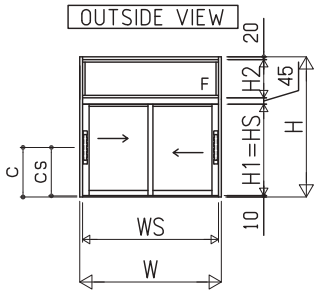


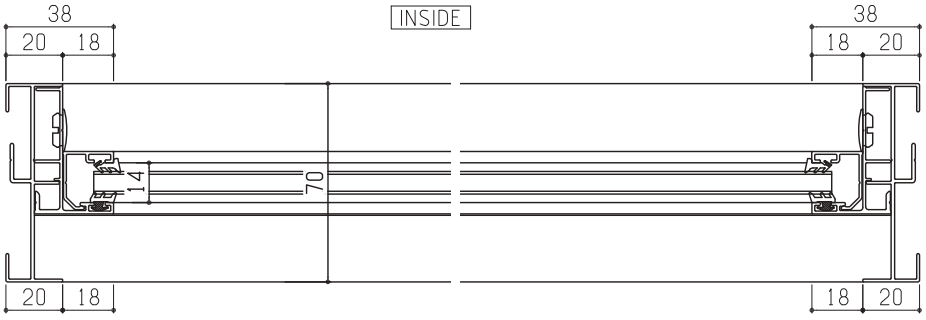


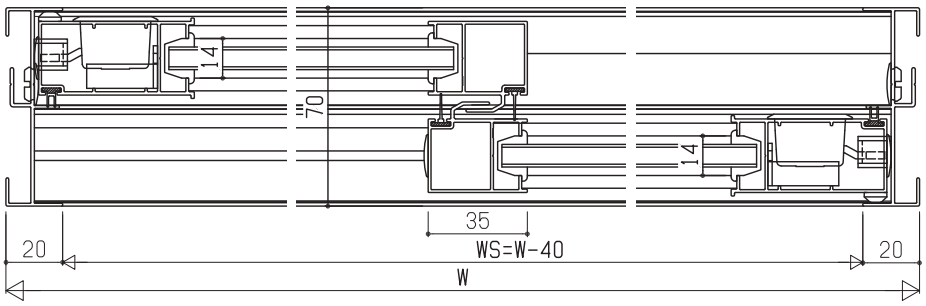
OUTSIDE

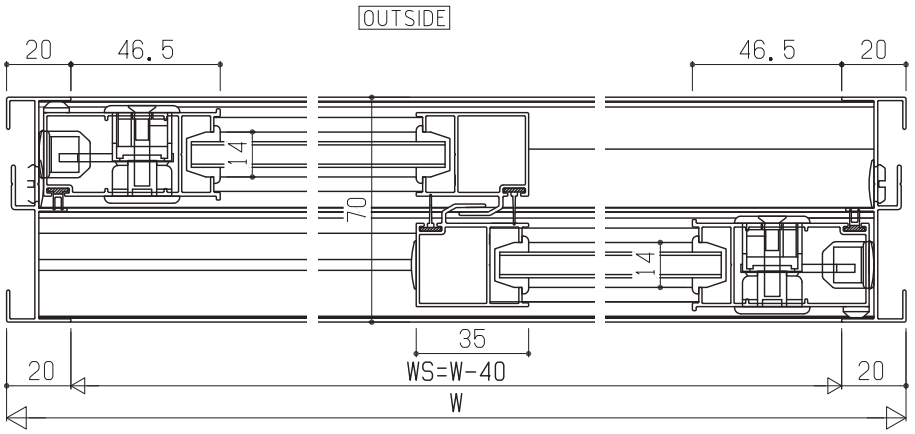
MADELA YKK AP











Hook Lock with key

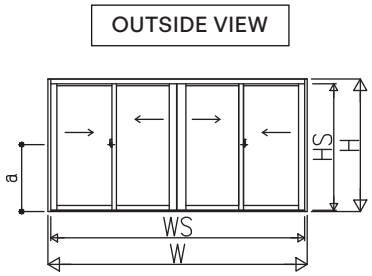
OUTSIDE

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

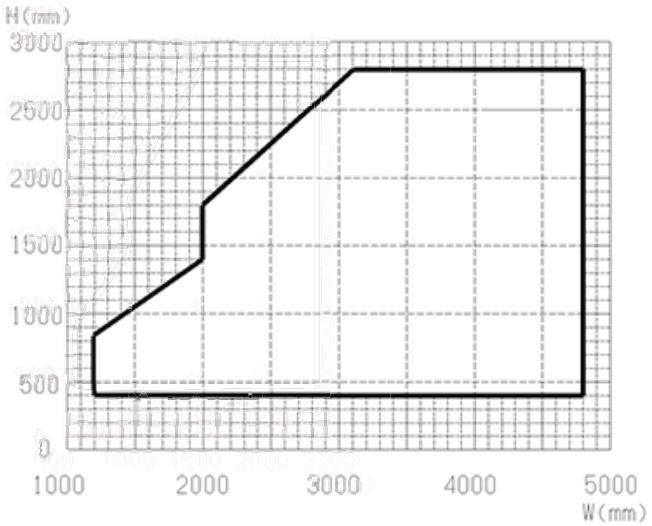
Selected parts :
Crescent, Hook Lock, Hook Lock with key

Glass

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

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

Size Limitation



SLIDING FLAT SILL 4 LEAVES
PRICE LIST

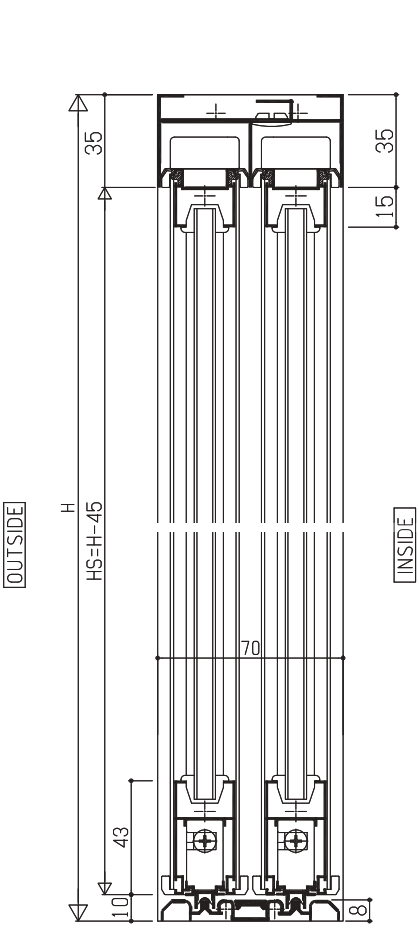
CRESCENT

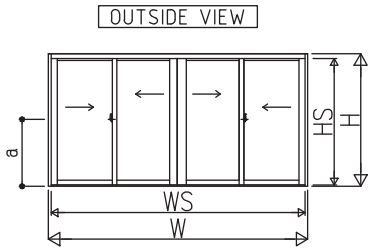
Juta Rp

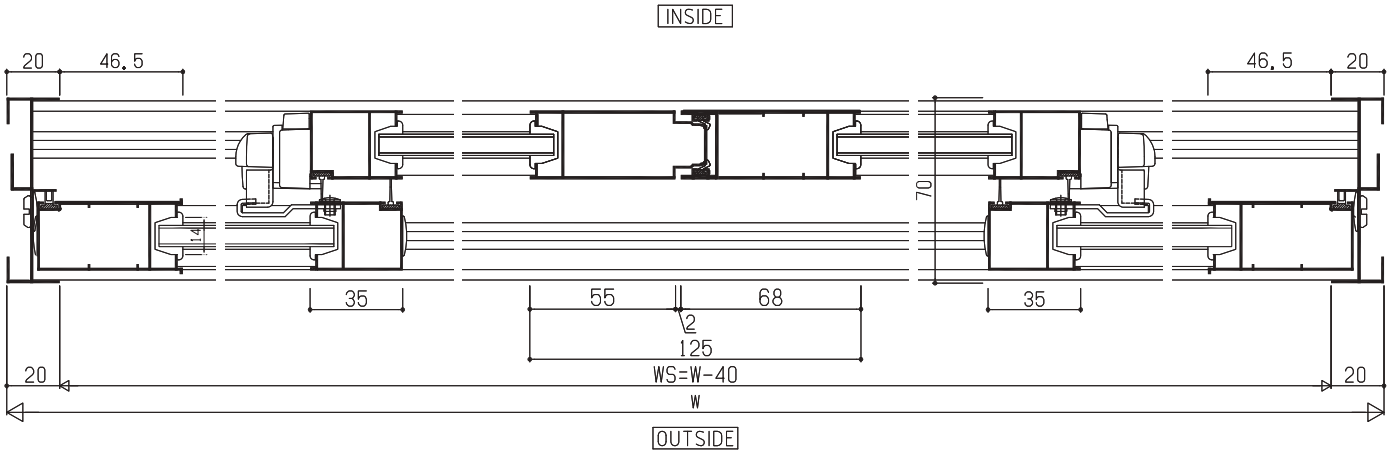
W (mm) / H (mm)	1,200	1201–1,300	1301–1,400	1401–1,500	1501–1,600	1601–1,700	1701–1,800	1801–1,900	1901–2,000	2001–2,100	2101–2,200	2201–2,300	2301–2,400	2401–2,500	2501–2,600	2601–2,700	2701–2,800	2801–2,900	2901–3,000
400	1.80	1.84	1.89	1.93	1.97	2.02	2.06	2.10	2.15	2.19	2.23	2.28	2.32	2.36	2.41	2.45	2.49	2.54	2.58
401 ～ 500	1.91	1.95	1.99	2.04	2.08	2.12	2.17	2.21	2.25	2.30	2.34	2.38	2.42	2.47	2.51	2.55	2.60	2.64	2.68
501 ～ 600	2.01	2.06	2.10	2.14	2.19	2.23	2.27	2.31	2.36	2.40	2.44	2.49	2.53	2.57	2.62	2.66	2.70	2.75	2.79
601 ～ 700	2.12	2.16	2.21	2.25	2.29	2.33	2.38	2.42	2.46	2.51	2.55	2.59	2.64	2.68	2.72	2.76	2.81	2.85	2.89
701 ～ 800	2.23	2.27	2.31	2.35	2.40	2.44	2.48	2.53	2.57	2.61	2.66	2.70	2.74	2.78	2.83	2.87	2.91	2.96	3.00
801 ～ 900	2.33	2.38	2.42	2.46	2.50	2.55	2.59	2.63	2.68	2.72	2.76	2.81	2.85	2.89	2.93	2.98	3.02	3.06	3.11
901 ～ 1,000		2.48	2.53	2.57	2.61	2.65	2.70	2.74	2.78	2.83	2.87	2.91	2.96	3.00	3.04	3.08	3.13	3.17	3.21
1,001 ～ 1,100				2.67	2.72	2.76	2.80	2.85	2.89	2.93	2.98	3.02	3.06	3.10	3.15	3.19	3.23	3.28	3.32
1,101 ～ 1,200					2.82	2.87	2.91	2.95	3.00	3.04	3.08	3.12	3.17	3.21	3.25	3.30	3.34	3.38	3.43
1,201 ～ 1,300							3.02	3.06	3.10	3.15	3.19	3.23	3.27	3.32	3.36	3.40	3.45	3.49	3.53
1,301 ～ 1,400								3.16	3.21	3.25	3.29	3.34	3.38	3.42	3.47	3.51	3.55	3.59	3.64
1,401 ～ 1,500										3.36	3.40	3.44	3.49	3.53	3.57	3.61	3.66	3.70	3.74
1,501 ～ 1,600										3.47	3.51	3.55	3.60	3.64	3.68	3.72	3.77	3.81	3.85
1,601 ～ 1,700										3.57	3.62	3.66	3.70	3.74	3.79	3.83	3.87	3.92	3.96
1,701 ～ 1,800										3.68	3.72	3.76	3.81	3.85	3.89	3.94	3.98	4.02	4.07
1,801 ～ 1,900										3.78	3.83	3.87	3.91	3.96	4.00	4.04	4.08	4.13	4.17
1,901 ～ 2,000										3.89	3.93	3.98	4.02	4.06	4.10	4.15	4.19	4.23	4.28
2,001 ～ 2,100												4.08	4.13	4.17	4.21	4.25	4.30	4.34	4.38
2,101 ～ 2,200													4.23	4.27	4.32	4.36	4.40	4.45	4.49
2,201 ～ 2,300														4.38	4.42	4.47	4.51	4.55	4.60
2,301 ～ 2,400															4.53	4.57	4.61	4.66	4.70
2,401 ～ 2,500																4.68	4.72	4.76	4.81
2,501 ～ 2,600																	4.83	4.87	4.92
2,601 ～ 2,700																		4.98	5.02
2,701 ～ 2,800																			5.13

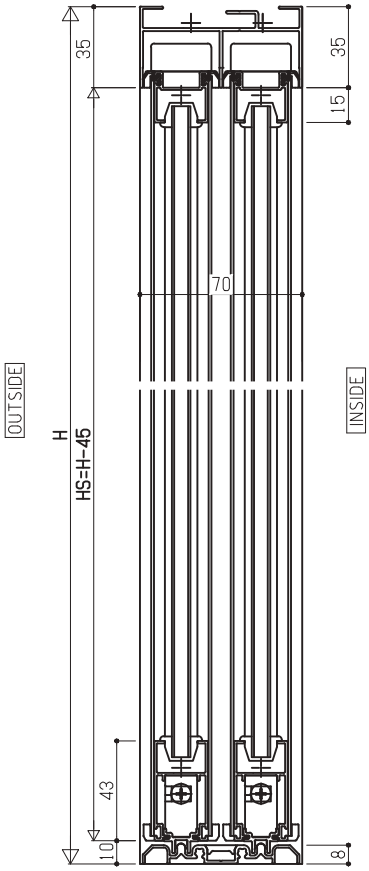
W (mm) / H (mm)	3,100	3001–3,200	3101–3,300	3201–3,400	3301–3,500	3401–3,600	3501–3,700	3601–3,800	3701–3,900	3801–4,000	3901–4,100	4001–4,200	4101–4,300	4201–4,400	4301–4,500	4401–4,600	4501–4,700	4601–4,800	4701–
400	2.62	2.67	2.71	2.75	2.80	2.84	2.88	2.92	2.97	3.01	3.06	3.10	3.14	3.18	3.23	3.27	3.31	3.36	
401 ～ 500	2.73	2.77	2.81	2.86	2.90	2.94	2.99	3.03	3.07	3.12	3.16	3.20	3.25	3.29	3.33	3.38	3.42	3.46	
501 ～ 600	2.83	2.88	2.92	2.96	3.01	3.05	3.09	3.13	3.18	3.22	3.27	3.31	3.35	3.39	3.44	3.48	3.52	3.57	
601 ～ 700	2.94	2.98	3.02	3.07	3.11	3.15	3.20	3.24	3.28	3.33	3.37	3.41	3.46	3.50	3.54	3.59	3.63	3.67	
701 ～ 800	3.04	3.09	3.13	3.17	3.22	3.26	3.30	3.34	3.39	3.43	3.48	3.52	3.56	3.60	3.65	3.69	3.73	3.78	
801 ～ 900	3.15	3.19	3.24	3.28	3.32	3.36	3.41	3.45	3.49	3.54	3.58	3.62	3.67	3.71	3.75	3.80	3.84	3.88	
901 ～ 1,000	3.26	3.30	3.34	3.39	3.43	3.47	3.51	3.56	3.60	3.64	3.69	3.73	3.77	3.82	3.86	3.90	3.95	3.99	
1,001 ～ 1,100	3.36	3.41	3.45	3.49	3.53	3.58	3.62	3.66	3.71	3.75	3.79	3.84	3.88	3.92	3.96	4.01	4.05	4.09	
1,101 ～ 1,200	3.47	3.51	3.56	3.60	3.64	3.68	3.73	3.77	3.81	3.86	3.90	3.94	3.99	4.03	4.07	4.11	4.16	4.20	
1,201 ～ 1,300	3.58	3.62	3.66	3.70	3.75	3.79	3.83	3.88	3.92	3.96	4.01	4.05	4.09	4.13	4.18	4.22	4.26	4.31	
1,301 ～ 1,400	3.68	3.72	3.77	3.81	3.85	3.90	3.94	3.98	4.02	4.07	4.11	4.15	4.20	4.24	4.28	4.33	4.37	4.41	
1,401 ～ 1,500	3.79	3.83	3.87	3.92	3.96	4.00	4.04	4.09	4.13	4.17	4.22	4.26	4.30	4.35	4.39	4.43	4.47	4.52	
1,501 ～ 1,600	3.90	3.94	3.98	4.02	4.07	4.11	4.15	4.20	4.24	4.28	4.33	4.37	4.41	4.46	4.50	4.54	4.58	4.63	
1,601 ～ 1,700	4.00	4.05	4.09	4.13	4.17	4.22	4.26	4.30	4.35	4.39	4.43	4.48	4.52	4.56	4.60	4.65	4.69	4.73	
1,701 ～ 1,800	4.11	4.15	4.19	4.24	4.28	4.32	4.37	4.41	4.45	4.50	4.54	4.58	4.62	4.67	4.71	4.75	4.80	4.84	
1,801 ～ 1,900	4.21	4.26	4.30	4.34	4.39	4.43	4.47	4.51	4.56	4.60	4.64	4.69	4.73	4.77	4.82	4.86	4.90	4.94	
1,901 ～ 2,000	4.32	4.36	4.41	4.45	4.49	4.53	4.58	4.62	4.66	4.71	4.75	4.79	4.84	4.88	4.92	4.96	5.01	5.05	
2,001 ～ 2,100	4.43	4.47	4.51	4.56	4.60	4.64	4.68	4.73	4.77	4.81	4.86	4.90	4.94	4.99	5.03	5.07	5.11	5.16	
2,101 ～ 2,200	4.53	4.58	4.62	4.66	4.70	4.75	4.79	4.83	4.88	4.92	4.96	5.01	5.05	5.09	5.13	5.18	5.22	5.26	
2,201 ～ 2,300	4.64	4.68	4.72	4.77	4.81	4.85	4.90	4.94	4.98	5.03	5.07	5.11	5.15	5.20	5.24	5.28	5.33	5.37	
2,301 ～ 2,400	4.74	4.79	4.83	4.87	4.92	4.96	5.00	5.04	5.09	5.13	5.17	5.22	5.26	5.30	5.35	5.39	5.43	5.47	
2,401 ～ 2,500	4.85	4.89	4.94	4.98	5.02	5.07	5.11	5.15	5.19	5.24	5.28	5.32	5.37	5.41	5.45	5.50	5.54	5.58	
2,501 ～ 2,600	4.96	5.00	5.05	5.09	5.13	5.17	5.22	5.26	5.30	5.35	5.39	5.43	5.48	5.52	5.56	5.60	5.65	5.69	
2,601 ～ 2,700	5.07	5.11	5.15	5.19	5.24	5.28	5.32	5.37	5.41	5.45	5.50	5.54	5.58	5.62	5.67	5.71	5.75	5.80	
2,701 ～ 2,800	5.17	5.21	5.26	5.30	5.34	5.39	5.43	5.47	5.51	5.56	5.60	5.64	5.69	5.73	5.77	5.82	5.86	5.90	

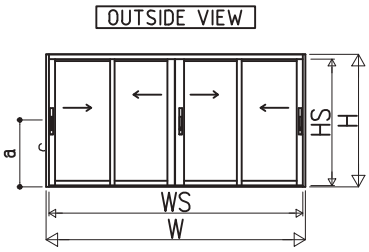
* For the specifications with **Hook Lock**, 0.31 juta/set will be added to the price above
* For the specifications with **Hook Lock with key**, 0.76 juta/set will be added to the price above
* This price is not included glass, assembling fee, delivery fee and installation fee.

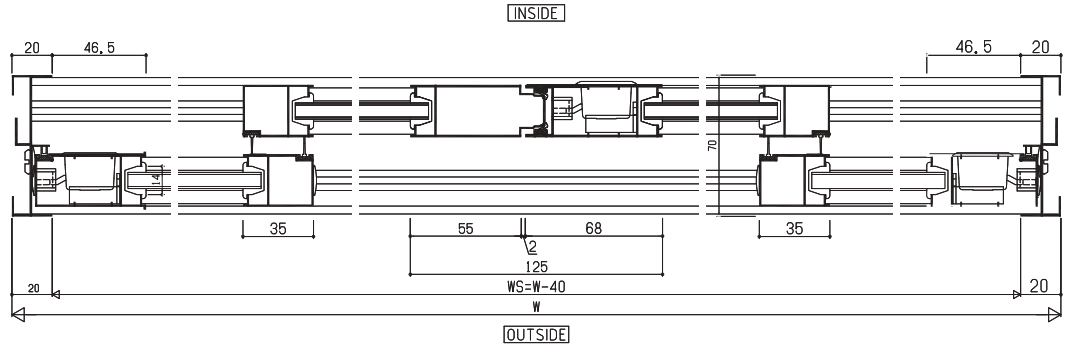

35
35
15
OUTSIDE
H
HS=H-45
INSIDE
70
43
10
8

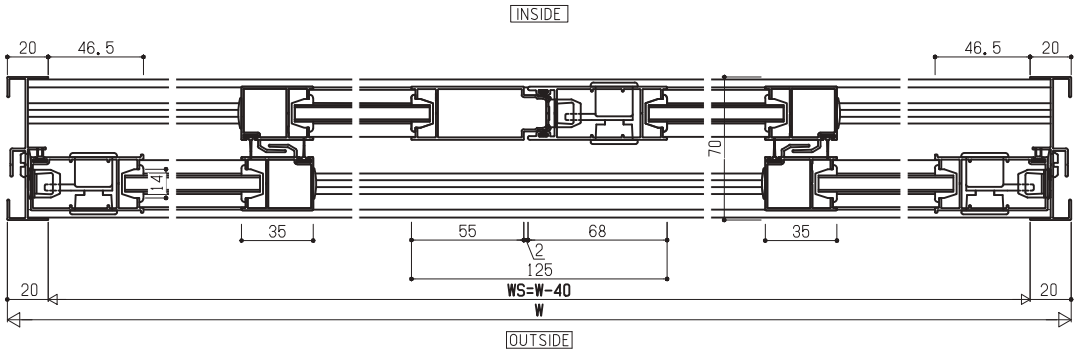

OUTSIDE VIEW
a
HS
H
WS
W


INSIDE
20
46.5
46.5
20
14
70
35
55
68
2
125
35
20
WS=W-40
20
W
OUTSIDE









Hook Lock with key

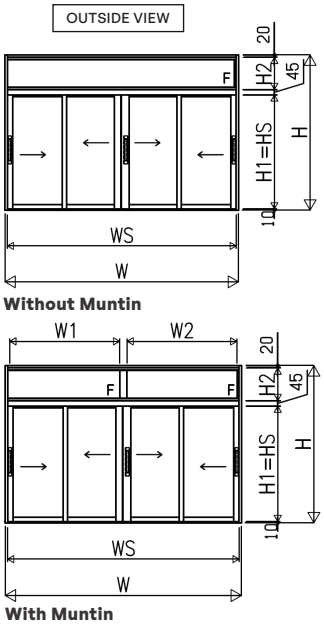
FIX/SLIDING FLAT SILL 4 LEAVES

W>2400 FIX will be divided by Muntin

Performance

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

Standard Specification



Crescent Height : as
- H1/2
- 600
- Custom

Hook Lock Height : c
- H1/2
- 600
- Custom

Glass

Without Muntin

	Glass Size	Qty	Thickness
SL	(W/4-64)×(H1-44)	4	5,6,8
FIX	(W-62)×(H2-22)	1	5,6,8

With Muntin

	Glass Size	Qty	Thickness
SL	(W/4-64)×(H1-44)	4	5,6,8
FIX	(W/2-54,5)×(H2-22)	2	5,6,8

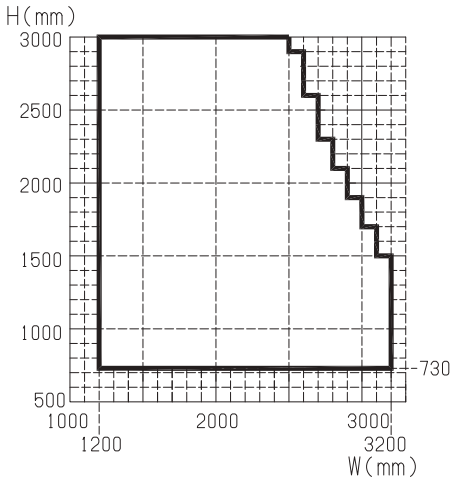
Specifications

Selected parts :

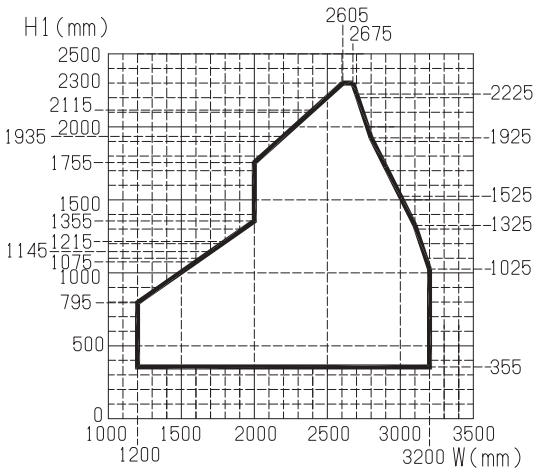
Crescent, Hook Lock, Hook Lock with key

Size Limitation

WH size



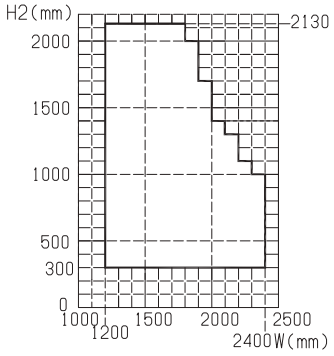
H1 size



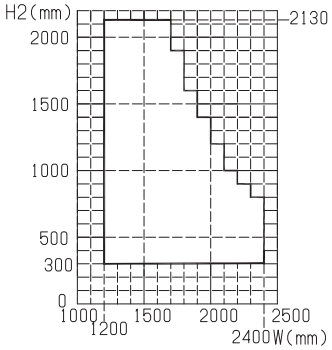
FIX/SLIDING FLAT SILL 4 LEAVES
SIZE LIMITATION & PRICE LIST

Size Limitation

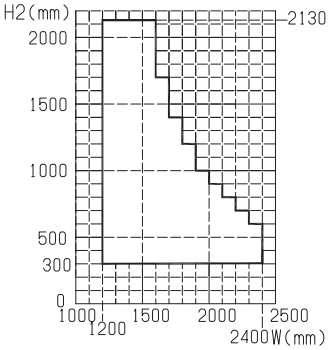
H2 size



Glass thickness 5 mm



Glass thickness 6 mm



Glass thickness 8 mm

Size Limitation

1 See the price list below for the upper FIX

2 See page **44** for the lower Sliding window

Price : 1 + 2

***The price list below is for 1 unit of FIX.**

When W>2400, 1 unit will be divided to 2 units by Muntin, and the price count double

FIX (Transom Price Included)

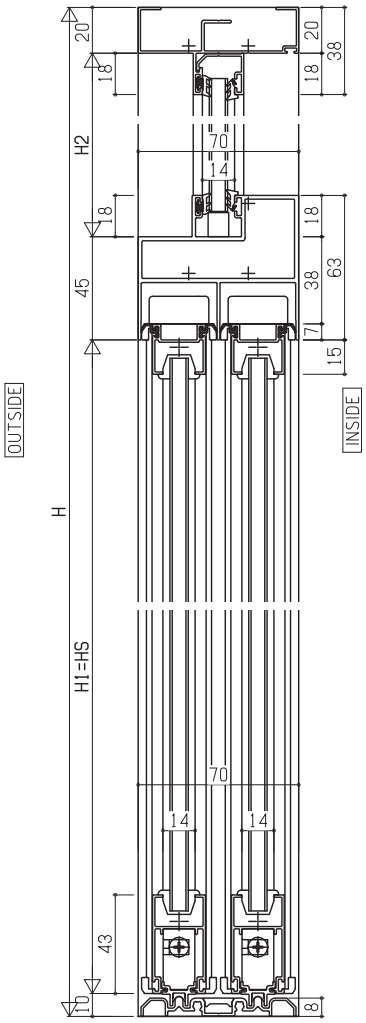
Juta Rp

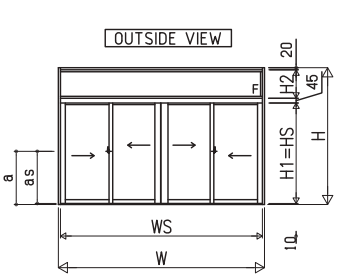
H (mm) \ W (mm)			1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000	2,001-2,100	2,101-2,200	2,201-2,300	2,301-2,400
		300	0.86	0.88	0.90	0.93	0.95	0.98	1.00	1.02	1.04	1.07	0.98	1.01	1.03
301	~	400	0.88	0.90	0.93	0.95	0.98	1.00	1.02	1.05	1.07	1.09	1.01	1.03	1.06
401	~	500	0.91	0.93	0.95	0.98	1.00	1.03	1.05	1.07	1.09	1.12	1.03	1.06	1.08
501	~	600	0.93	0.95	0.98	1.00	1.03	1.05	1.07	1.10	1.12	1.14	1.06	1.08	1.11
601	~	700	0.96	0.98	1.00	1.03	1.05	1.08	1.10	1.12	1.14	1.17	1.08	1.10	1.13
701	~	800	0.98	1.00	1.03	1.05	1.08	1.10	1.12	1.15	1.17	1.19	1.11	1.13	1.15
801	~	900	1.01	1.03	1.05	1.08	1.10	1.13	1.15	1.17	1.19	1.22	1.13	1.16	1.18
901	~	1,000	1.03	1.05	1.08	1.10	1.13	1.15	1.17	1.20	1.22	1.24	1.16	1.18	1.21
1,001	~	1,100	1.06	1.08	1.10	1.13	1.15	1.18	1.20	1.22	1.24	1.27	1.18	1.21	
1,101	~	1,200	1.08	1.10	1.13	1.15	1.18	1.20	1.22	1.25	1.27	1.29	1.21		
1,201	~	1,300	1.11	1.13	1.15	1.18	1.20	1.23	1.25	1.27	1.29	1.32	1.23		
1,301	~	1,400	1.13	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.34			
1,401	~	1,500	1.16	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.34				
1,501	~	1,600	1.18	1.20	1.23	1.25	1.28	1.30	1.32	1.35	1.37				
1,601	~	1,700	1.21	1.23	1.25	1.28	1.30	1.33	1.35	1.37	1.39				
1,701	~	1,800	1.23	1.25	1.28	1.30	1.33	1.35	1.37	1.40					
1,801	~	1,900	1.26	1.28	1.30	1.33	1.35	1.38	1.40	1.42					
1,901	~	2,000	1.28	1.31	1.33	1.35	1.38	1.40	1.43	1.45					
2,001	~	2,100	1.31	1.33	1.35	1.38	1.40	1.43	1.45						
2,101	~	2,200	1.33	1.35	1.38	1.40	1.43	1.45	1.47						

FIX/SLIDING FLAT SILL 4 LEAVES

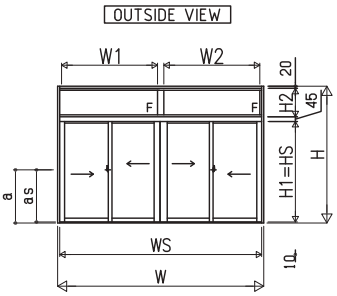
SYSTEM DRAWING

CRESCENT LOCK

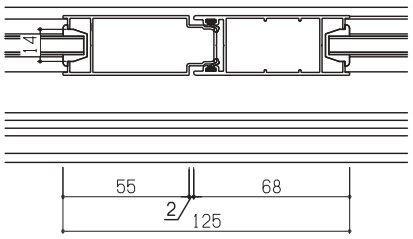


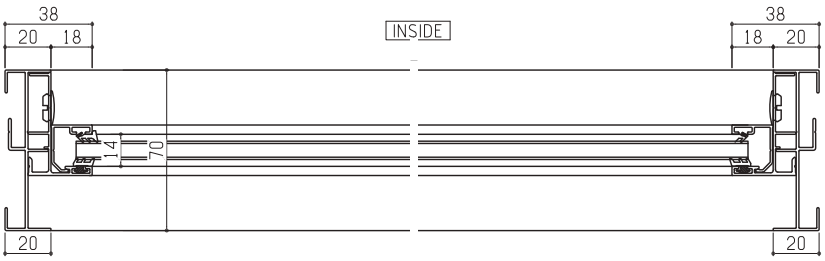


Without Muntin

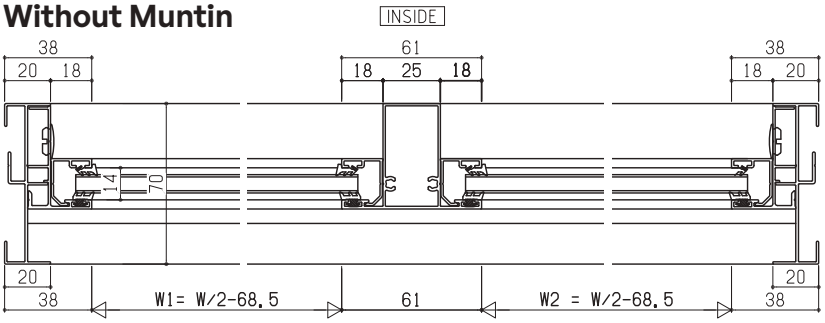


With Muntin

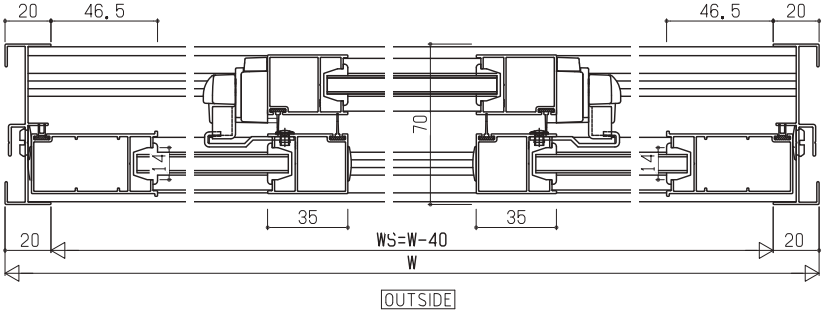




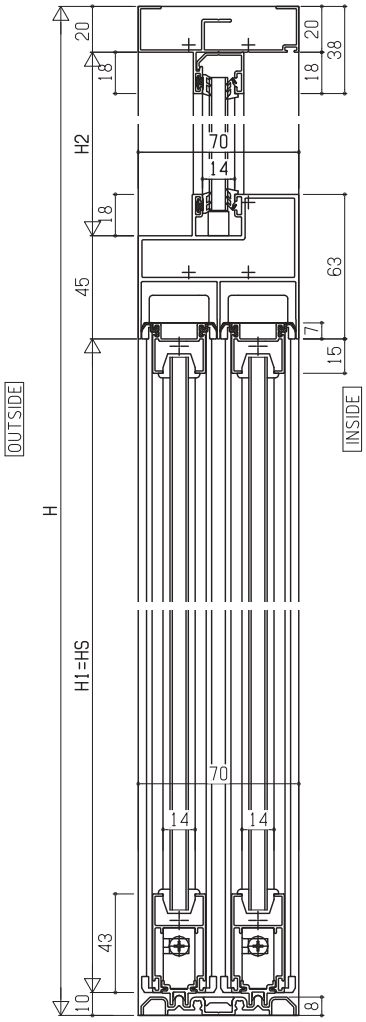
Without Muntin

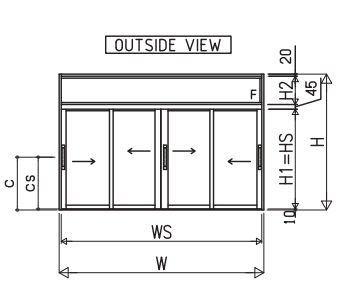


With Muntin



MADELA YKK AP





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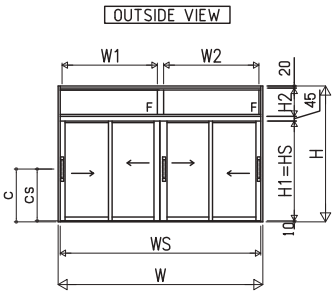
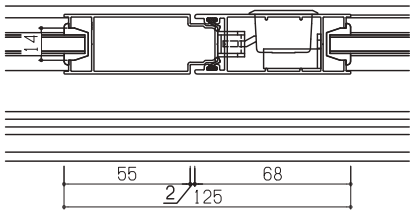
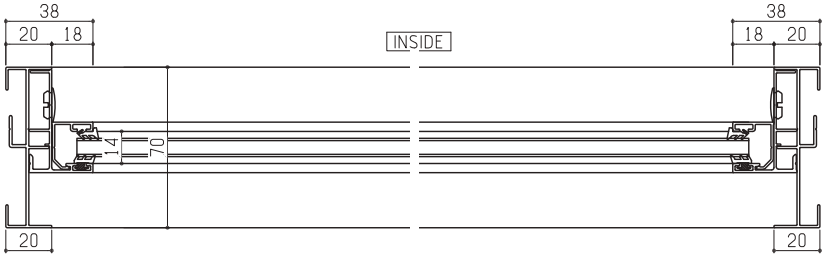
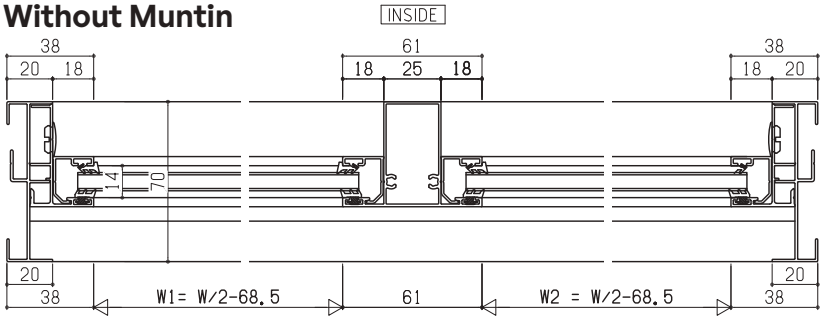


With Muntin

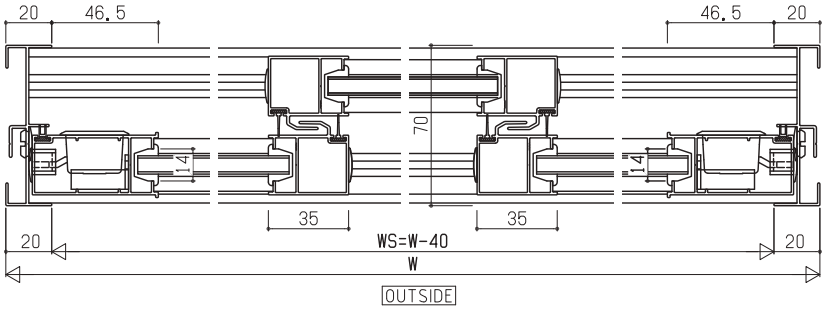


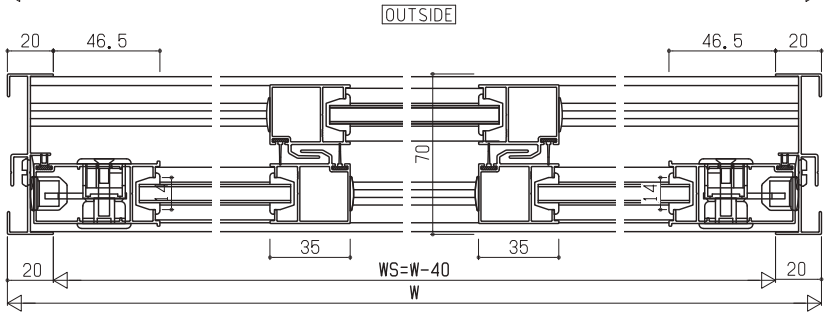


Without Muntin



With Muntin





Hook Lock With Key

FIX

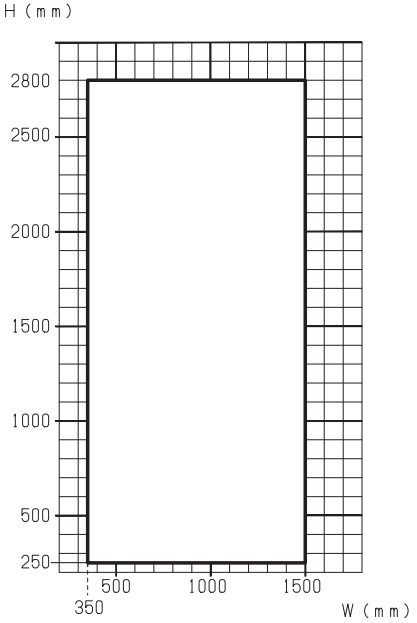
Performance

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



FIX
PRICE LIST

SINGLE FIX

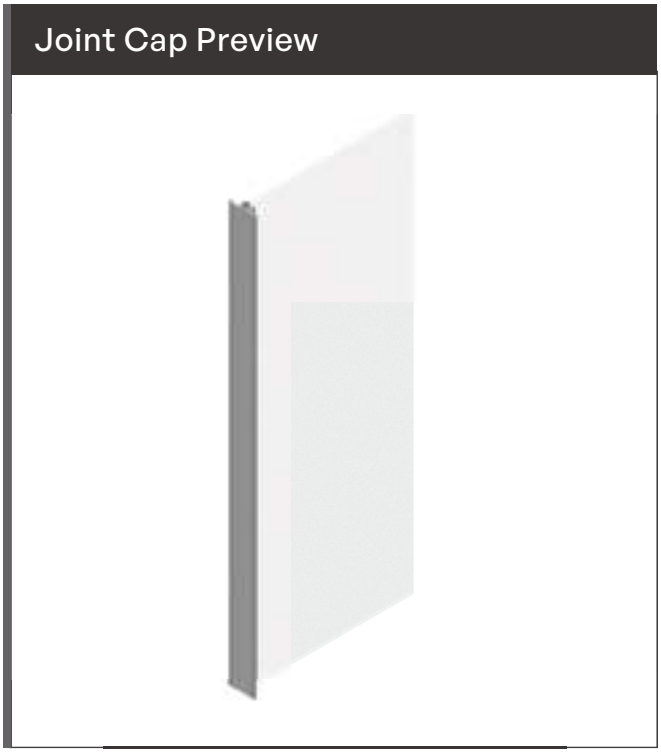
Juta Rp

W (mm) / H (mm)	350–400	401–500	501–600	601–700	701–800	801–900	901–1,000	1001–1,100	1101–1,200	1201–1,300	1301–1,400	1401–1,500
300	0.26	0.28	0.30	0.33	0.35	0.37	0.39	0.42	0.44	0.46	0.49	0.51
301 ～ 400	0.28	0.30	0.33	0.35	0.37	0.40	0.42	0.44	0.47	0.49	0.51	0.53
401 ～ 500	0.31	0.33	0.35	0.37	0.40	0.42	0.44	0.47	0.49	0.51	0.54	0.56
501 ～ 600	0.33	0.35	0.38	0.40	0.42	0.45	0.47	0.49	0.51	0.54	0.56	0.58
601 ～ 700	0.36	0.38	0.40	0.42	0.45	0.47	0.49	0.52	0.54	0.56	0.59	0.61
701 ～ 800	0.38	0.40	0.43	0.45	0.47	0.50	0.52	0.54	0.56	0.59	0.61	0.63
801 ～ 900	0.41	0.43	0.45	0.48	0.50	0.52	0.54	0.57	0.59	0.61	0.64	0.66
901 ～ 1,000	0.43	0.45	0.48	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.66	0.68
1,001 ～ 1,100	0.46	0.48	0.50	0.52	0.55	0.57	0.59	0.62	0.64	0.66	0.69	0.71
1,101 ～ 1,200	0.48	0.50	0.53	0.55	0.57	0.60	0.62	0.64	0.66	0.69	0.71	0.73
1,201 ～ 1,300	0.51	0.53	0.55	0.57	0.60	0.62	0.64	0.67	0.69	0.71	0.74	0.76
1,301 ～ 1,400	0.53	0.55	0.58	0.60	0.62	0.65	0.67	0.69	0.72	0.74	0.76	0.78
1,401 ～ 1,500	0.56	0.58	0.60	0.63	0.65	0.67	0.69	0.72	0.74	0.76	0.79	0.81
1,501 ～ 1,600	0.58	0.60	0.63	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.81	0.83
1,601 ～ 1,700	0.61	0.63	0.65	0.67	0.70	0.72	0.74	0.77	0.79	0.81	0.84	0.86
1,701 ～ 1,800	0.63	0.65	0.68	0.70	0.72	0.75	0.77	0.79	0.81	0.84	0.86	0.88
1,801 ～ 1,900	0.66	0.68	0.70	0.73	0.75	0.77	0.79	0.82	0.84	0.86	0.89	0.91
1,901 ～ 2,000	0.68	0.70	0.73	0.75	0.77	0.80	0.82	0.84	0.87	0.89	0.91	0.93
2,001 ～ 2,100	0.71	0.73	0.75	0.78	0.80	0.82	0.84	0.87	0.89	0.91	0.94	0.96
2,101 ～ 2,200	0.73	0.75	0.78	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.96	0.98
2,201 ～ 2,300	0.76	0.78	0.80	0.82	0.85	0.87	0.89	0.92	0.94	0.96	0.99	1.01
2,301 ～ 2,400	0.78	0.80	0.83	0.85	0.87	0.90	0.92	0.94	0.97	0.99	1.01	1.03
2,401 ～ 2,500	0.81	0.83	0.85	0.88	0.90	0.92	0.94	0.97	0.99	1.01	1.04	1.06
2,501 ～ 2,600	0.83	0.85	0.88	0.90	0.92	0.95	0.97	0.99	1.02	1.04	1.06	1.08
2,601 ～ 2,700	0.86	0.88	0.90	0.93	0.95	0.97	0.99	1.02	1.04	1.06	1.09	1.11
2,701 ～ 2,800	0.88	0.90	0.93	0.95	0.97	1.00	1.02	1.04	1.07	1.09	1.11	1.13

JOINT CAP

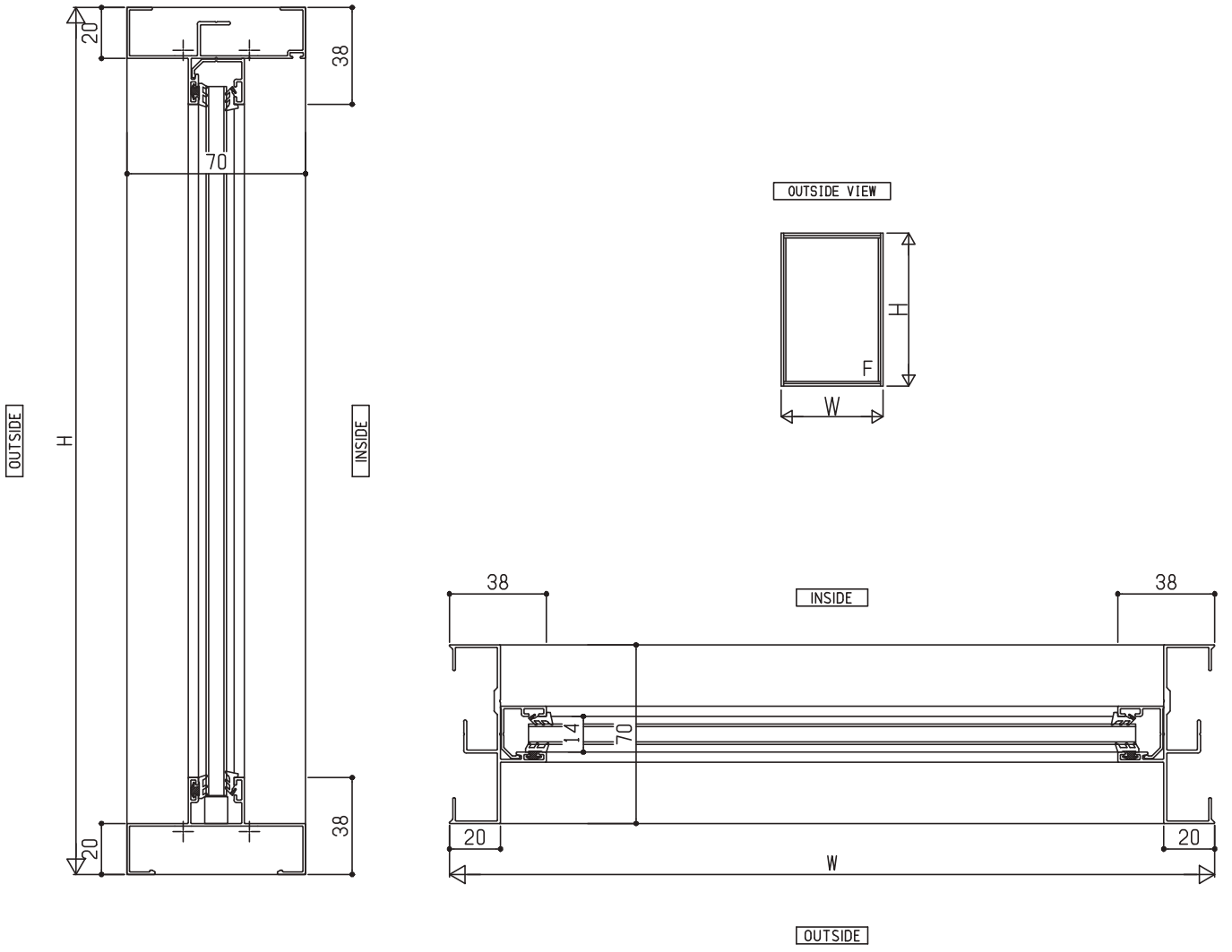
H (mm)	Juta Rp
～ 300	0.11
301 ～ 400	0.13
401 ～ 500	0.15
501 ～ 600	0.18
601 ～ 700	0.20
701 ～ 800	0.22
801 ～ 900	0.24
901 ～ 1,000	0.26
1,001 ～ 1,100	0.28
1,101 ～ 1,200	0.30
1,201 ～ 1,300	0.33
1,301 ～ 1,400	0.35
1,401 ～ 1,500	0.37
1,501 ～ 1,600	0.39
1,601 ～ 1,700	0.41
1,701 ～ 1,800	0.43
1,801 ～ 1,900	0.45
1,901 ～ 2,000	0.48
2,001 ～ 2,100	0.50
2,101 ～ 2,200	0.52
2,201 ～ 2,300	0.54
2,301 ～ 2,400	0.56
2,401 ～ 2,500	0.58
2,501 ～ 2,600	0.60
2,601 ～ 2,700	0.62
2,701 ～ 2,800	0.65
2,801 ～ 2,900	0.67
2,901 ～ 3,000	0.69

Joint Cap Preview



*This price is not included glass, assembling fee, delivery fee and installation fee.

FIX
SYSTEM DRAWING



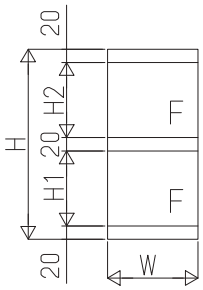
FIX/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

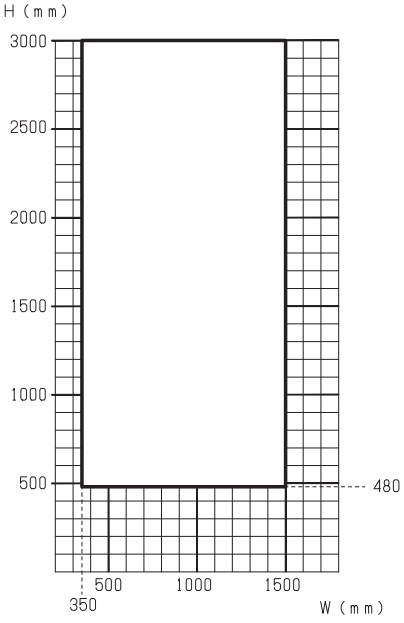


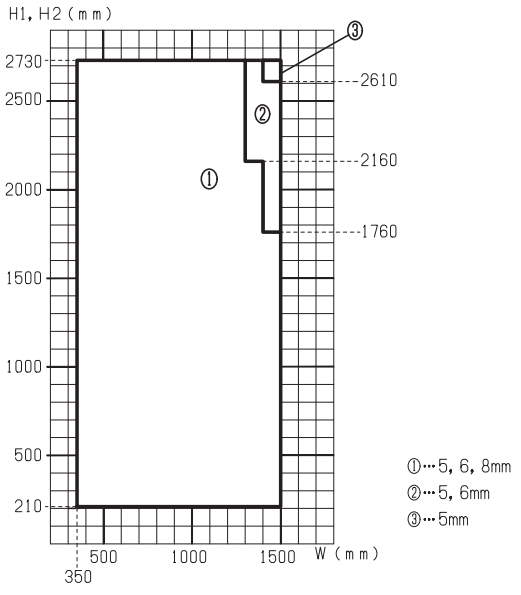
h1, h2 :
System Order
Dimensions

Glass

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

Size Limitation





FIX/FIX
PRICE LIST

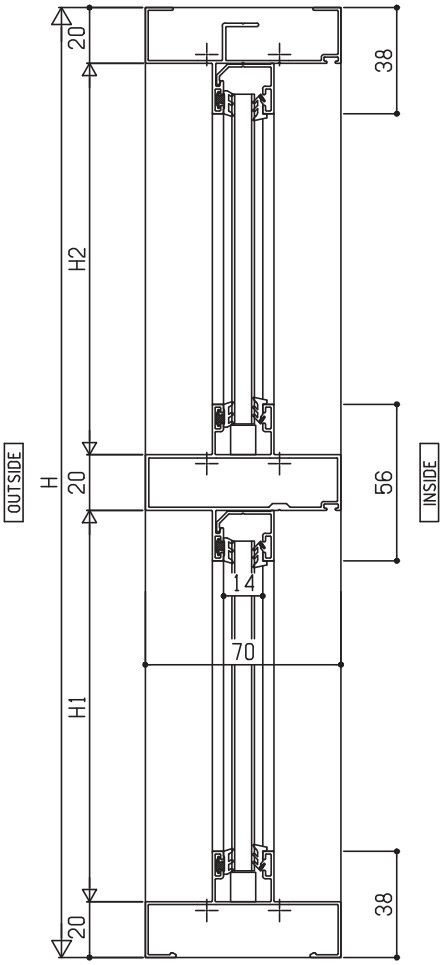
1 See page **52** for the upper FIX

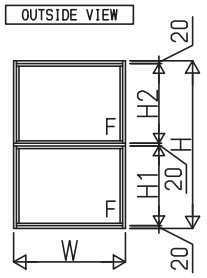
2 See page **52** for the lower FIX

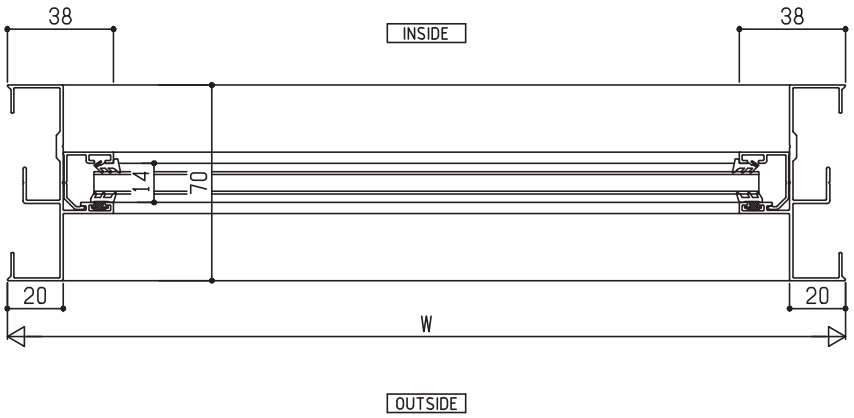
Price : 1 + 2 - TRANSOM

*Please check the price on the MADELA online system.

FIX/FIX
SYSTEM DRAWING







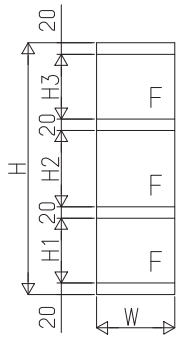
FIX/FIX/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

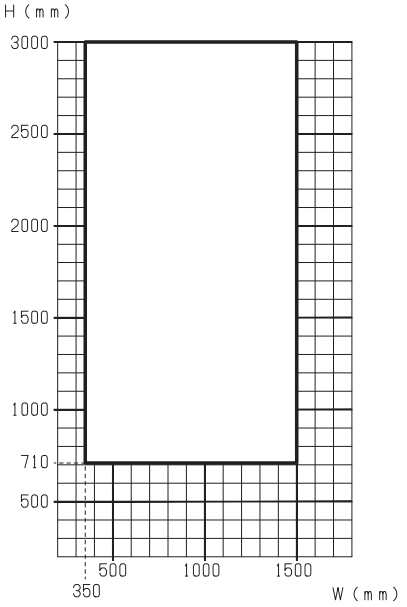


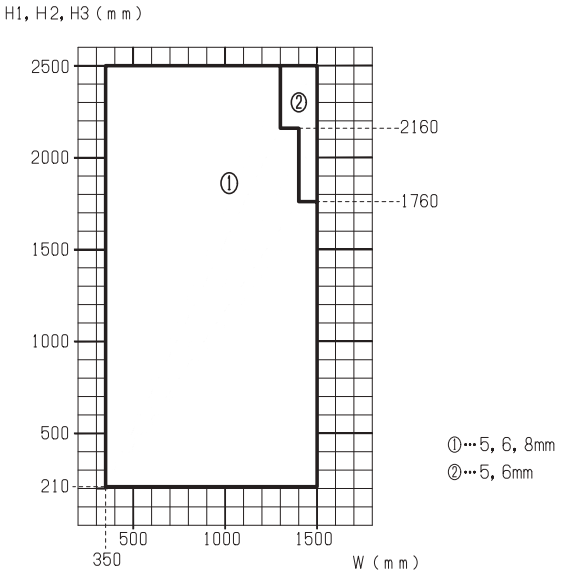
h1, h2, h3 :
System Order Dimensions

Glass

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

Size Limitation





FIX/FIX/FIX

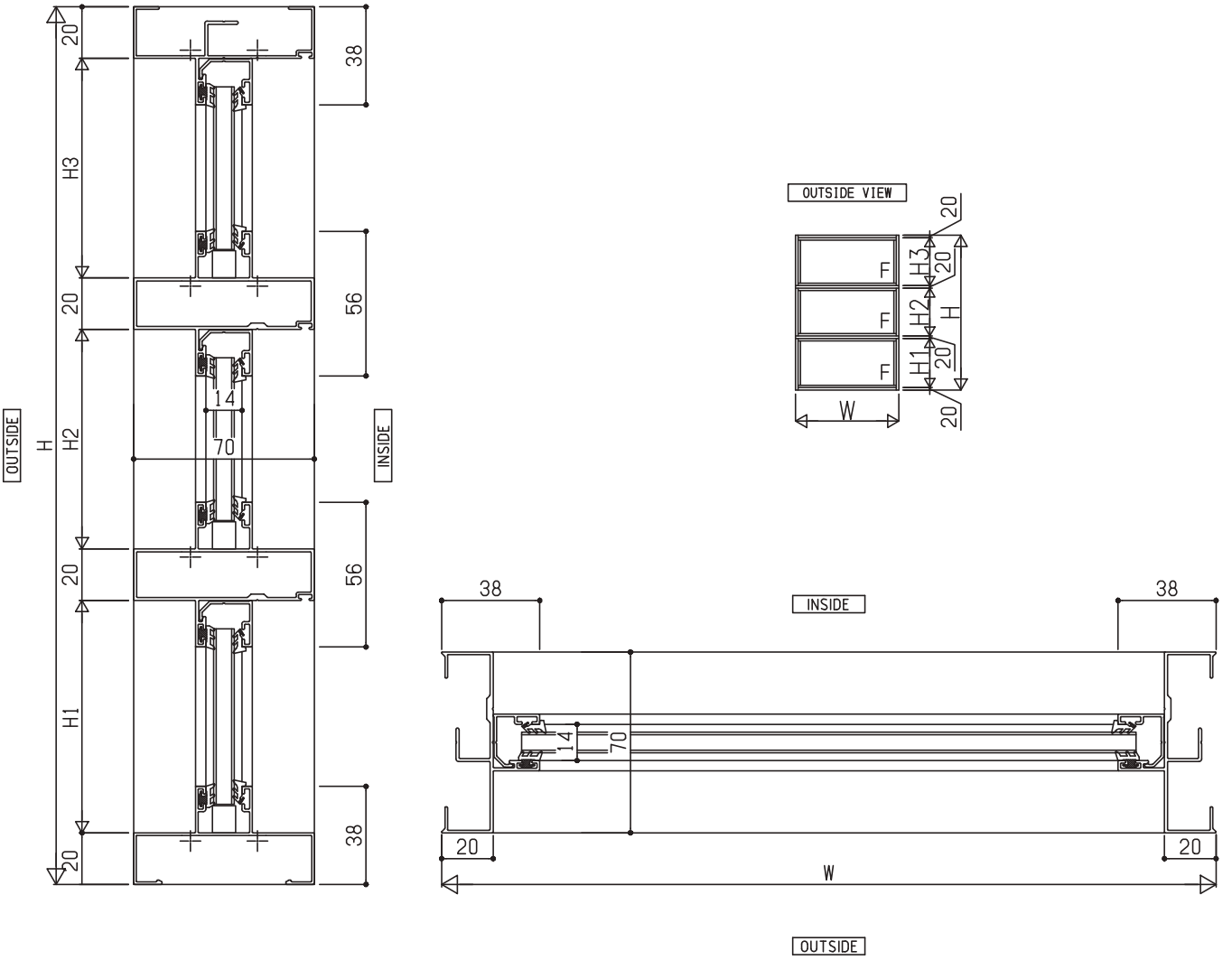
PRICE LIST

1	See page **52** for the upper FIX
2	See page **52** for the middle FIX
3	See page **52** for the lower FIX

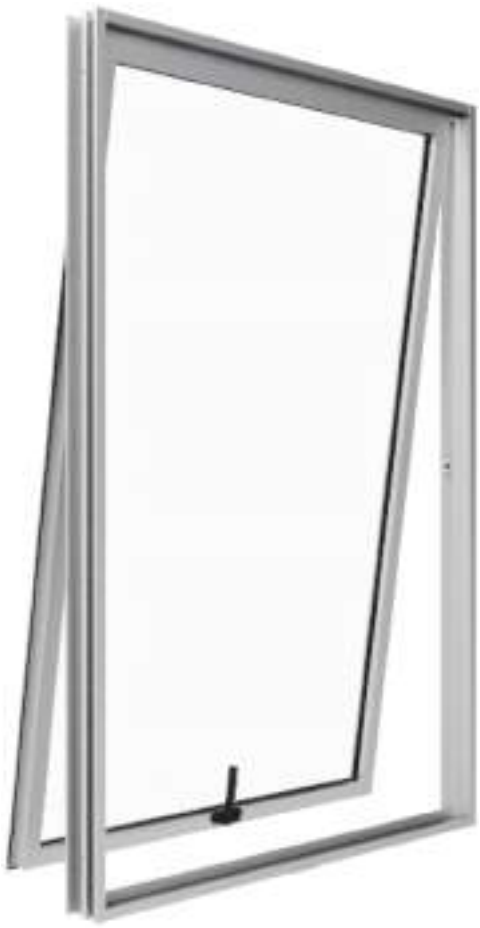
Price : 1 + 2 + 3 - TRANSOM

*Please check the price on the MADELA online system.

FIX/FIX/FIX
SYSTEM DRAWING



TOP HUNG



Performance

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

Specifications

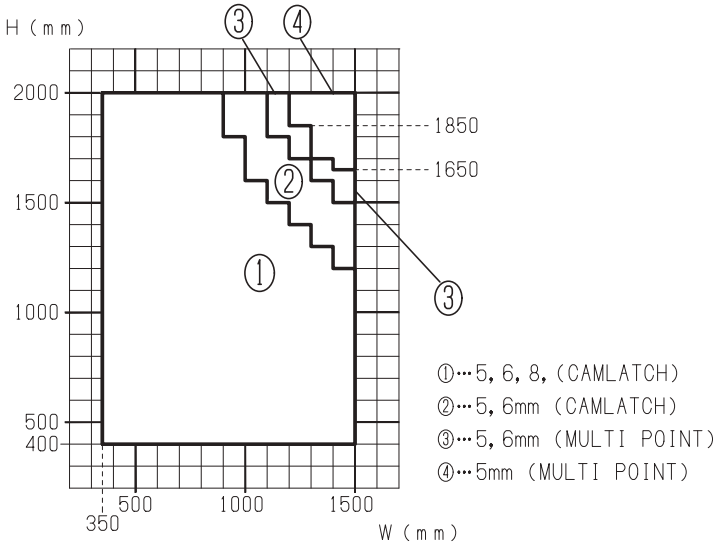
Selected parts :

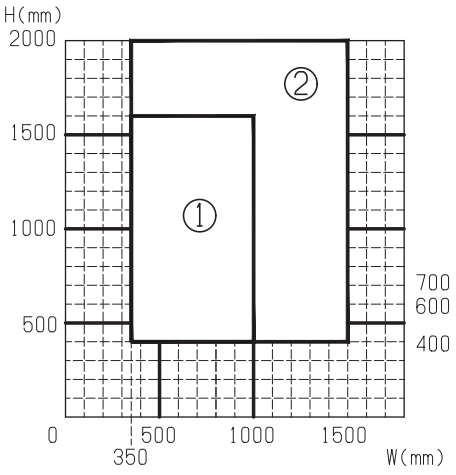
Camlatch, Multipoint Lock

Glass

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

Size Limitation





TOP HUNG
PRICE LIST

Juta Rp

H (mm) \ W (mm)	350–400	401–500	501–600	601–700	701–800	801–900	901–1,000	1001–1,100	1101–1,200	1201–1,300	1301–1,400	1401–1,500
400	0.83	0.87	0.90	0.94	0.98	1.02	1.06	1.09	1.12	1.16	1.20	1.24
401 ～ 500	0.87	0.90	0.94	0.98	1.02	1.06	1.10	1.12	1.16	1.20	1.24	1.27
501 ～ 600	0.91	0.94	0.98	1.02	1.06	1.10	1.13	1.16	1.20	1.24	1.28	1.31
601 ～ 700	0.96	1.00	1.04	1.08	1.12	1.15	1.19	1.22	1.26	1.29	1.33	1.37
701 ～ 800	1.00	1.04	1.08	1.12	1.16	1.19	1.23	1.26	1.29	1.33	1.37	1.41
801 ～ 900	1.04	1.08	1.12	1.16	1.20	1.23	1.27	1.29	1.33	1.37	1.41	1.45
901 ～ 1,000	1.17	1.20	1.24	1.28	1.32	1.36	1.40	1.42	1.46	1.49	1.53	1.57
1,001 ～ 1,100	1.21	1.24	1.28	1.32	1.36	1.40	1.44	1.46	1.49	1.53	1.57	1.61
1,101 ～ 1,200	1.23	1.27	1.31	1.35	1.39	1.42	1.46	1.47	1.50	1.54	1.58	1.61
1,201 ～ 1,300	1.27	1.31	1.35	1.39	1.43	1.46	1.50	1.48	1.52	1.56	1.59	1.63
1,301 ～ 1,400	1.31	1.35	1.39	1.43	1.47	1.50	1.54	1.52	1.56	1.60	1.63	1.67
1,401 ～ 1,450	1.33	1.37	1.41	1.45	1.48	1.52	1.56	1.56	1.60	1.64	1.67	1.71
1,451 ～ 1,500	1.35	1.39	1.43	1.47	1.50	1.54	1.58	1.58	1.62	1.65	1.69	1.73
1,501 ～ 1,600	1.39	1.43	1.47	1.51	1.54	1.58	1.62	1.60	1.64	1.67	1.71	1.82
1,601 ～ 1,700	1.42	1.45	1.49	1.53	1.56	1.60	1.64	1.64	1.68	1.71	1.82	1.86
1,701 ～ 1,800	1.46	1.49	1.53	1.57	1.60	1.64	1.68	1.68	1.71	1.82	1.86	1.90
1,801 ～ 1,900	1.49	1.53	1.57	1.60	1.64	1.68	1.71	1.71	1.83	1.86	1.90	1.94
1,901 ～ 2,000	1.53	1.57	1.61	1.64	1.68	1.72	1.75	1.75	1.86	1.90	1.94	1.97

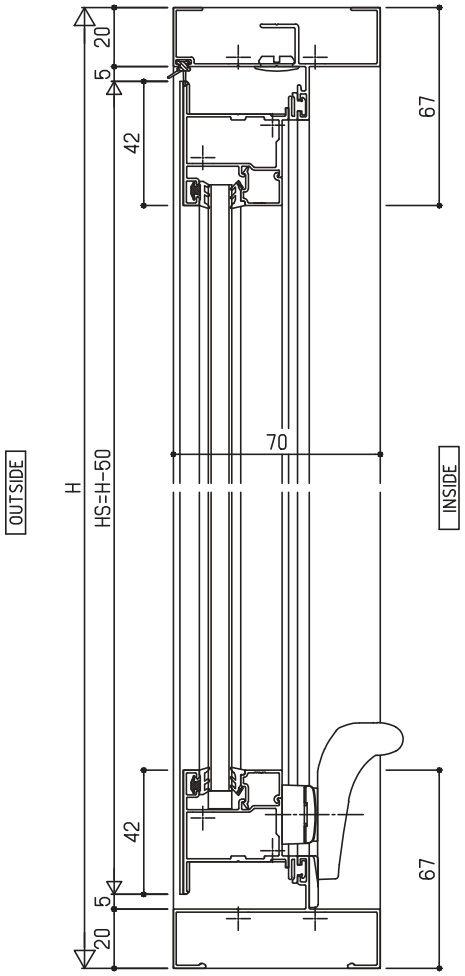
Handle Camlatch type

Handle Multi Point type

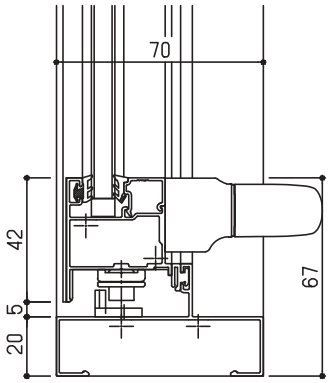
*This price is not included glass, assembling fee, delivery fee and installation fee.

* In case of using friction stay of economy parts, please deduct IDR 67.050,- from the price list above
* In case of adding Stopper base on size limitation;
- Arm stopper please addº IDR 165.150,- to the price list above.
- Alm Plate 33 mm please addº IDR 12.990,- to the price list above.
- Alm Plate 47 mm please addº IDR 16.720,- to the price list above.

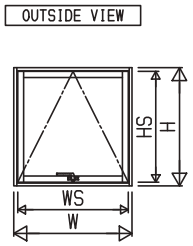
TOP HUNG
SYSTEM DRAWING

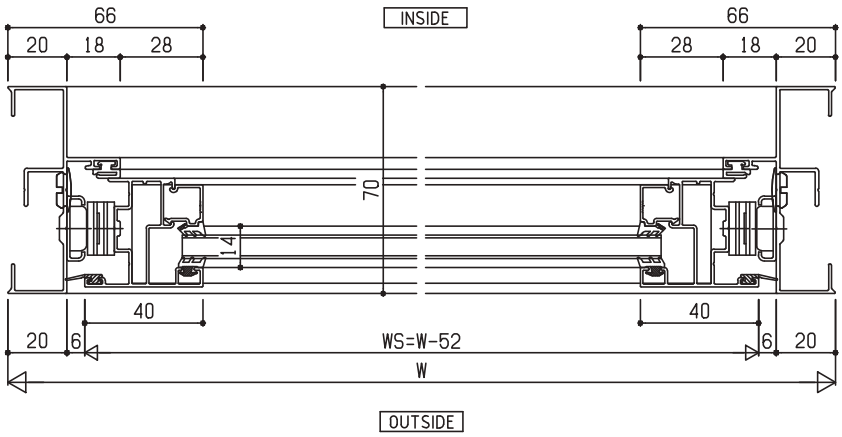


CAMLATCH



MULTIPOINT LOCK





MADELA YKK ap

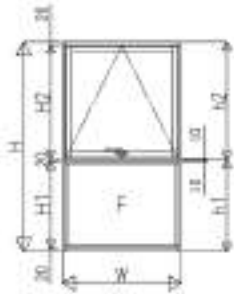
TOP HUNG/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

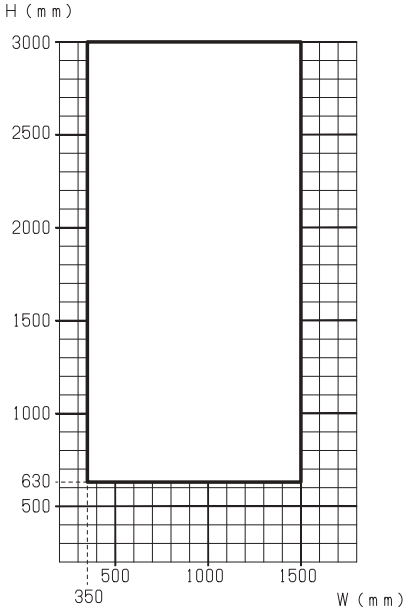


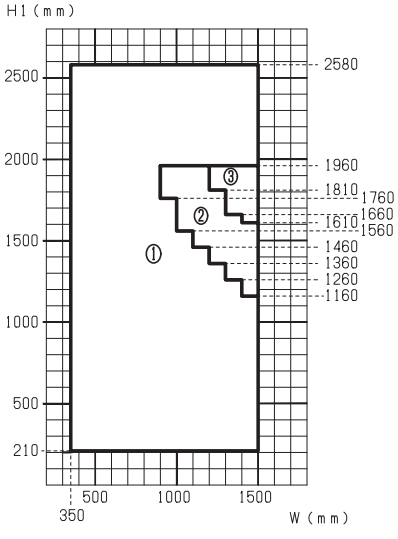
h1, h2 :
System Order
Dimensions

Glass

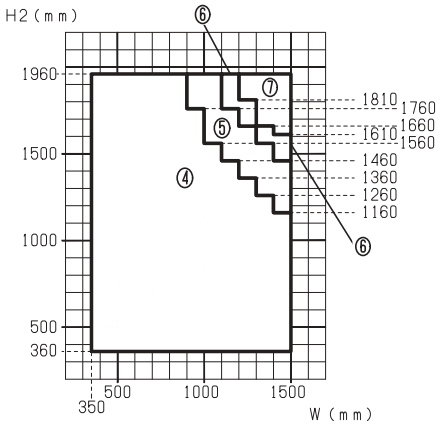
	Glass Size	Qty	Thickness
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

Size Limitation





①…5, 6, 8mm
②…5, 6mm
③…5mm



④…5, 6, 8mm (CAMLATCH)
⑤…5, 6mm (CAMLATCH)
⑥…5, 6mm (MULTI POINT)
⑦…5mm (MULTI POINT)

TOP HUNG/FIX

PRICE LIST

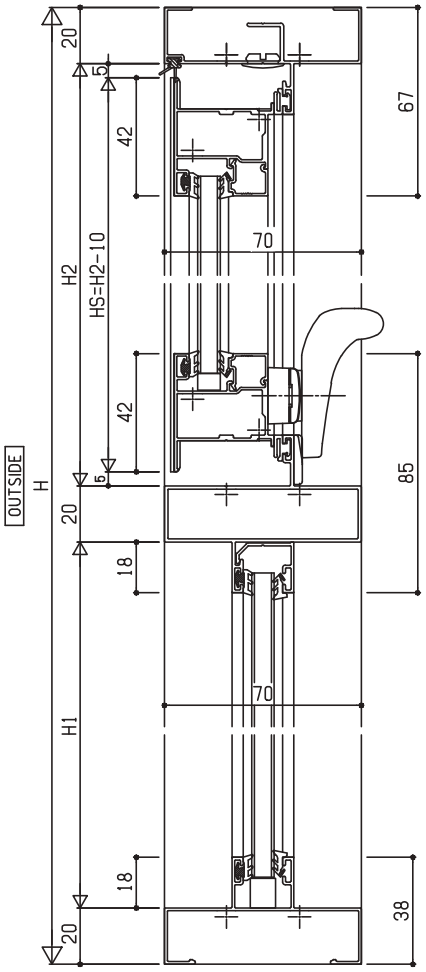
1 See page **64** for the upper Top Hung

2 See page **52** for the lower FIX

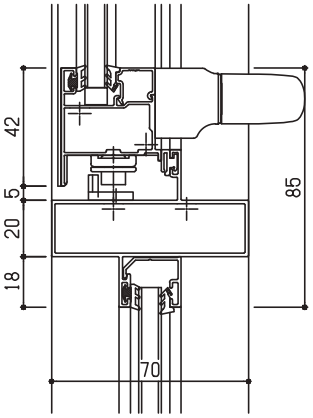
Price : 1 + 2 - TRANSOM

*Please check the price on the MADELA online system.

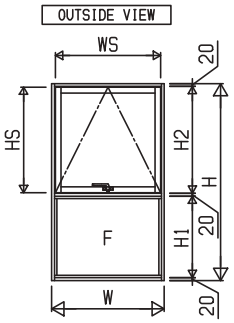
TOP HUNG/FIX
SYSTEM DRAWING

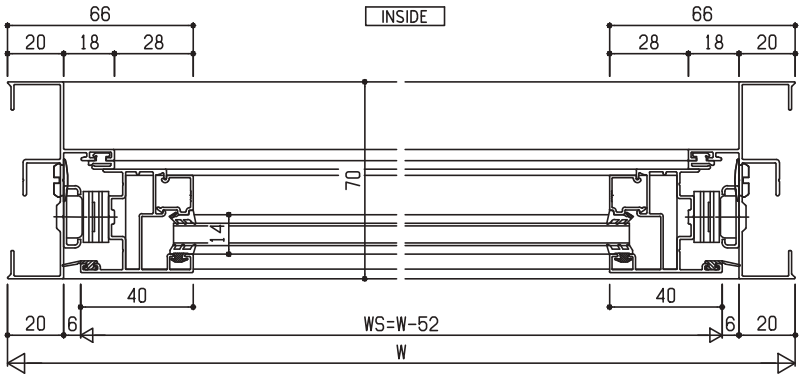


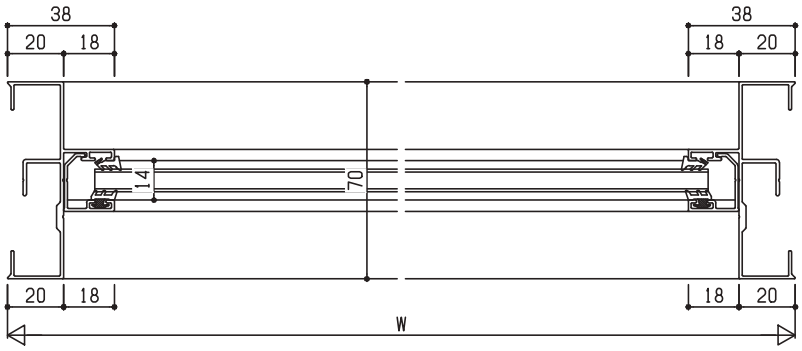
CAMLATCH



MULTIPOINT LOCK







OUTSIDE

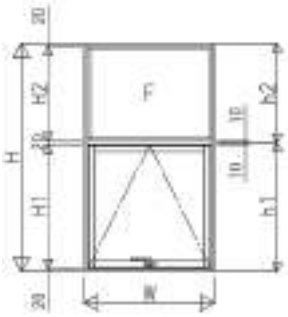
FIX/TOP HUNG

Performance

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

Standard Specification

OUTSIDE VIEW

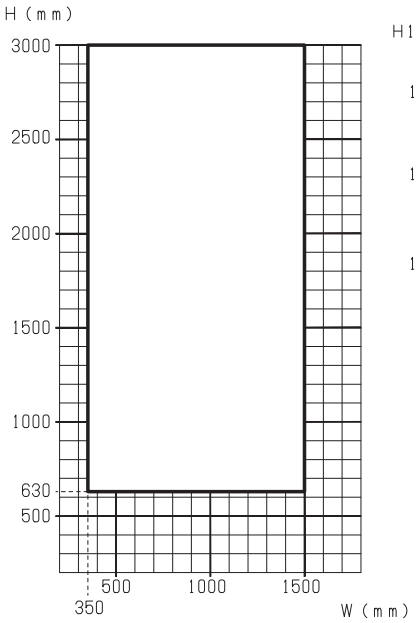


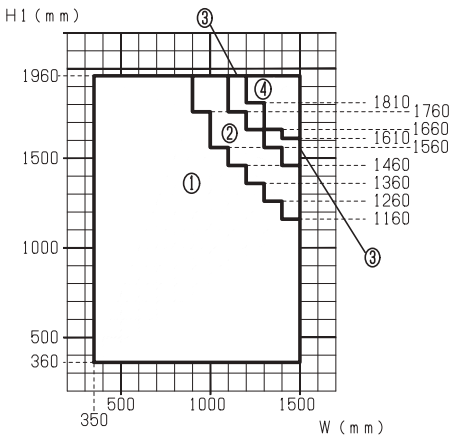
h1, h2 :
System Order
Dimensions

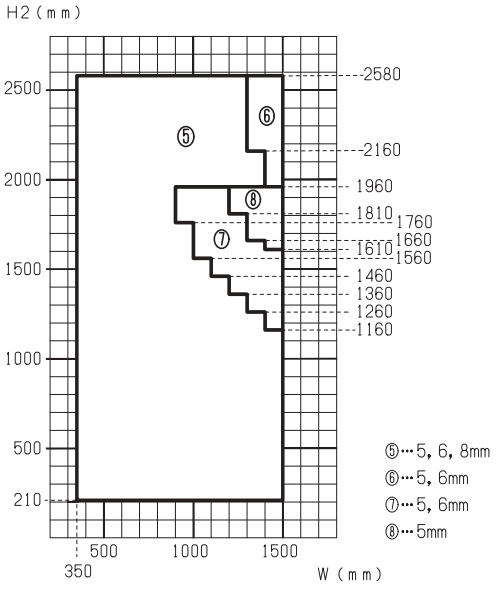
Glass

	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

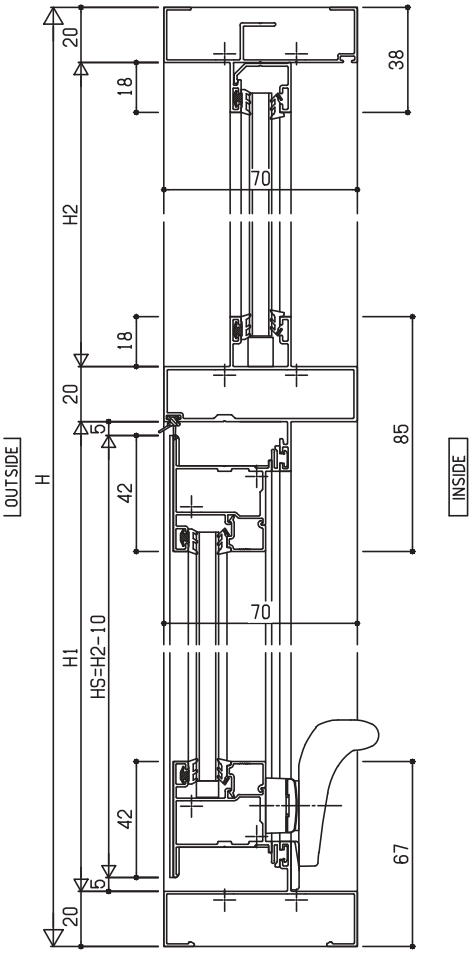
1 See page **52** for the upper FIX

2 See page **64** for the middle Top Hung

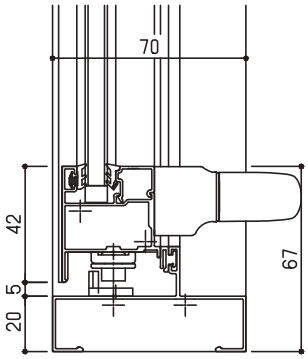
Price : 1 + 2 - TRANSOM

*Please check the price on the MADELA online system.

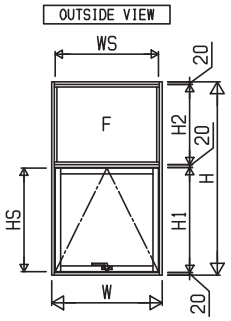
FIX/TOP HUNG
SYSTEM DRAWING

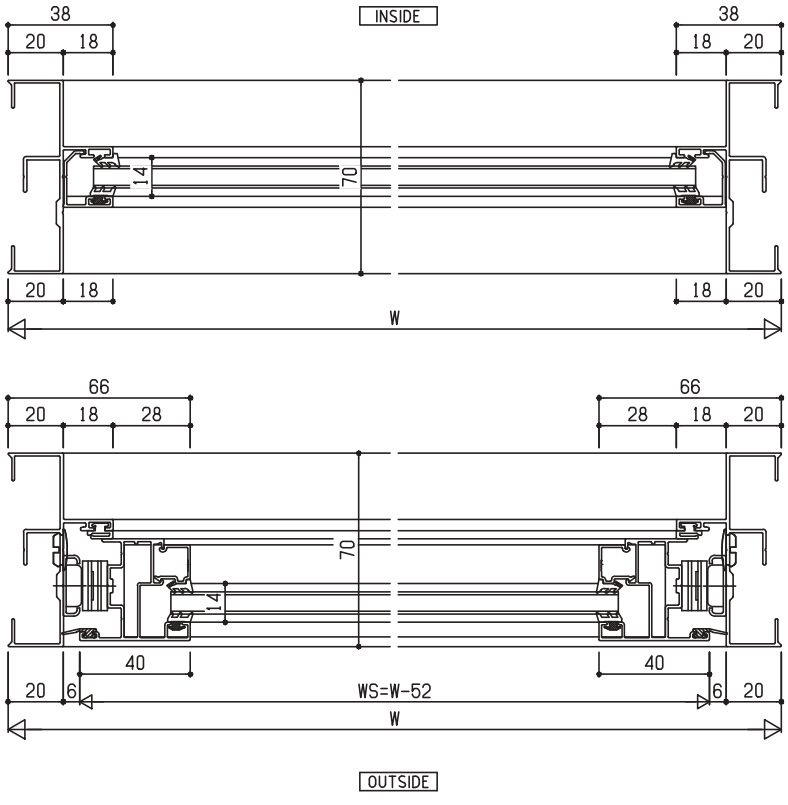


CAMLATCH



MULTIPOINT LOCK





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

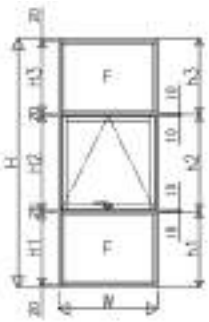
FIX/TOP HUNG/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

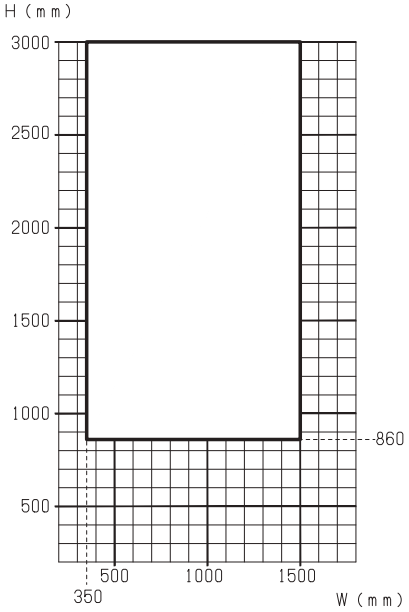


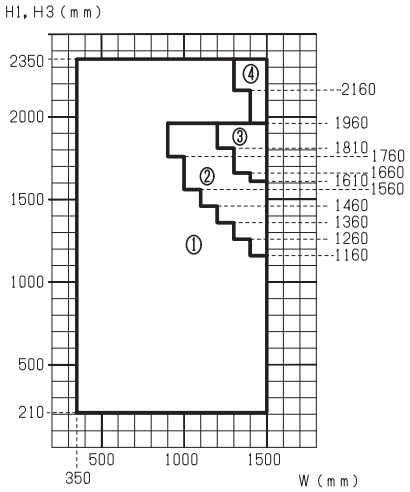
h1, h2, h3 :
System Order
Dimensions

Glass

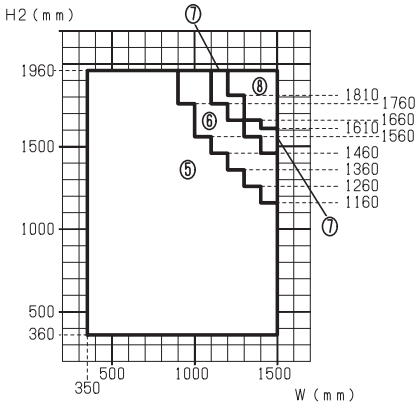
	Glass Size	Qty	Thickness
FIX	(W-62) ×(H3-22)	1	5,6,8
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62) ×(H1-22)	1	5,6,8

Size Limitation





①…5, 6, 8mm
②…5, 6mm
③…5mm
④…5, 6mm



⑤…5, 6, 8, (CAMLATCH)
⑥…5, 6mm (CAMLATCH)
⑦…5, 6mm (MULTI POINT)
⑧…5mm (MULTI POINT)

FIX/TOP HUNG/FIX

PRICE LIST

1 See page **52** for the upper FIX

2 See page **64** for the middle Top Hung

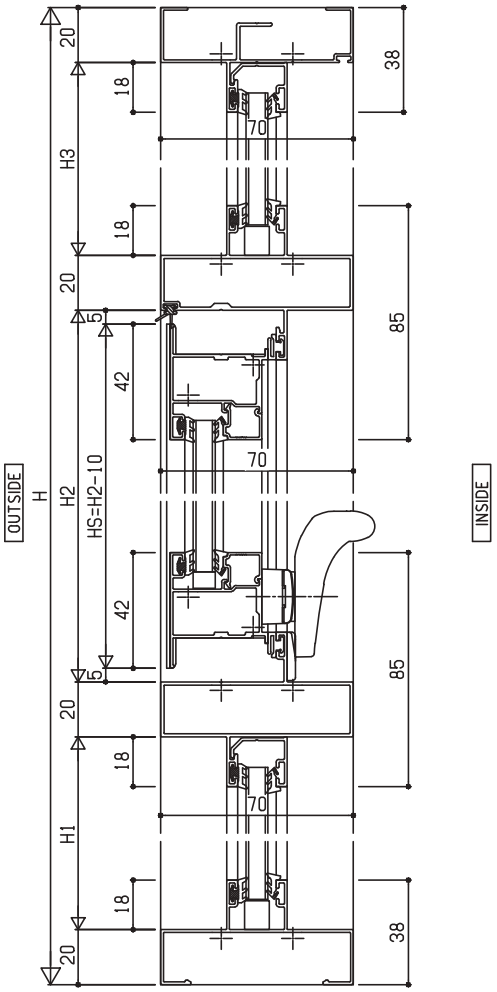
3 See page **52** for the lower FIX

Price : 1 + 2 + 3 - TRANSOM

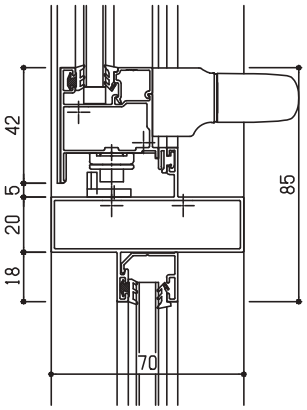
*Please check the price on the MADELA online system.

FIX/TOP HUNG/FIX

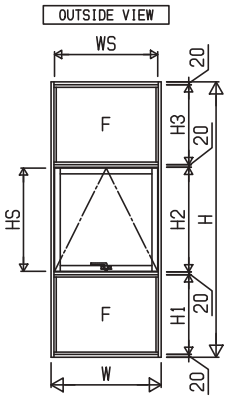
SYSTEM DRAWING

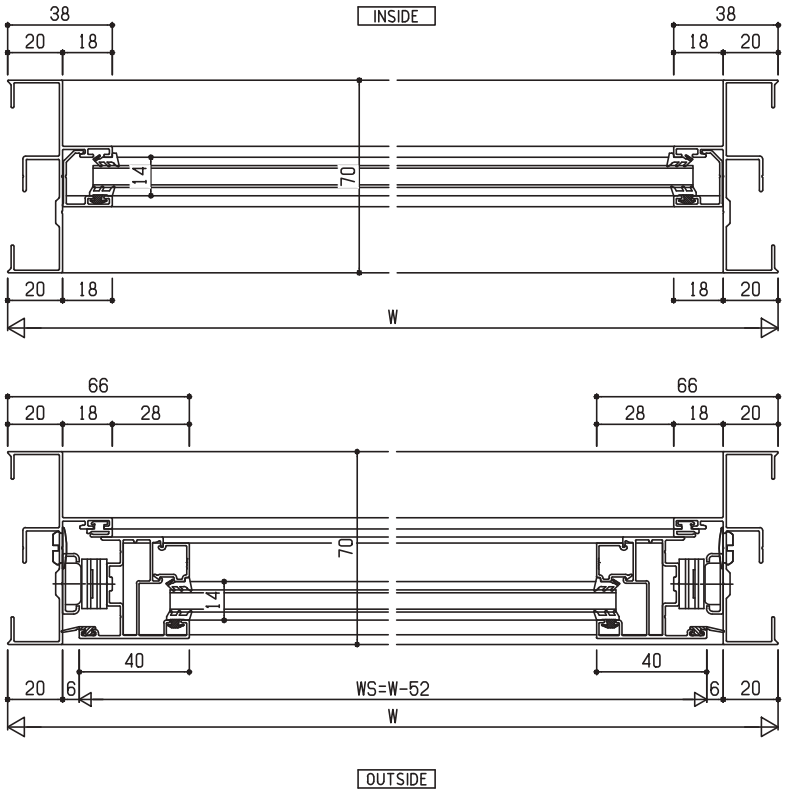


CAMLATCH



MULTIPOINT LOCK





TOP HUNG (FRICTION STAYLESS)

Performance

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

Specifications

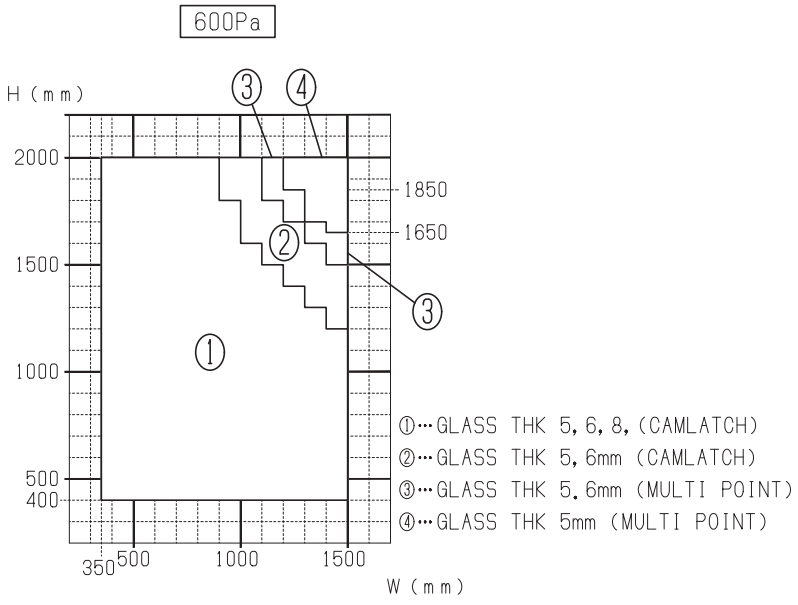
Selected parts :

Camlatch, Multipoint Lock

Glass

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

Size Limitation



TOP HUNG (FRICTION STAYLESS)

PRICE LIST

Juta Rp

H（mm） \ W（mm）			350–400	401–500	501–600	601–700	701–800	801–900	901–1,000	1001–1,100	1101–1,200	1201–1,300	1301–1,400	1401–1,500
		400	0.71	0.76	0.80	0.85	0.89	0.93	0.98	1.02	1.07	1.11	1.16	1.20
401	～	500	0.76	0.80	0.84	0.89	0.93	0.98	1.02	1.06	1.11	1.15	1.20	1.24
501	～	600	0.80	0.84	0.88	0.93	0.97	1.02	1.06	1.11	1.15	1.19	1.24	1.28
601	～	700	0.84	0.89	0.93	0.97	1.01	1.06	1.10	1.15	1.19	1.24	1.28	1.32
701	～	800	0.89	0.93	0.97	1.01	1.06	1.10	1.14	1.19	1.23	1.28	1.32	1.37
801	～	900	0.93	0.97	1.01	1.06	1.10	1.14	1.19	1.23	1.27	1.32	1.36	1.41
901	～	1,000	0.97	1.02	1.06	1.10	1.14	1.19	1.23	1.27	1.32	1.36	1.41	1.45
1,001	～	1,100	1.02	1.06	1.10	1.14	1.19	1.23	1.27	1.31	1.36	1.40	1.45	1.49
1,101	～	1,200	1.06	1.10	1.15	1.19	1.23	1.27	1.32	1.36	1.40	1.44	1.49	1.53
1,201	～	1,300	1.10	1.15	1.19	1.23	1.27	1.32	1.36	1.40	1.44	1.49	1.53	1.57
1,301	～	1,400	1.15	1.19	1.23	1.27	1.32	1.36	1.40	1.44	1.49	1.53	1.57	1.62
1,401	～	1,500	1.19	1.23	1.28	1.32	1.36	1.40	1.45	1.49	1.53	1.57	1.62	1.66
1,501	～	1,600	1.23	1.28	1.32	1.36	1.40	1.45	1.49	1.53	1.57	1.62	1.66	1.73
1,601	～	1,700	1.28	1.32	1.36	1.40	1.45	1.49	1.53	1.57	1.62	1.66	1.73	1.77
1,701	～	1,800	1.32	1.36	1.41	1.45	1.49	1.53	1.58	1.62	1.66	1.73	1.77	1.82
1,801	～	1,900	1.36	1.41	1.45	1.49	1.53	1.58	1.62	1.66	1.73	1.77	1.82	1.86
1,901	～	2,000	1.41	1.45	1.49	1.53	1.58	1.62	1.66	1.70	1.77	1.82	1.86	1.90

Handle Camlatch type

Handle Multi Point type

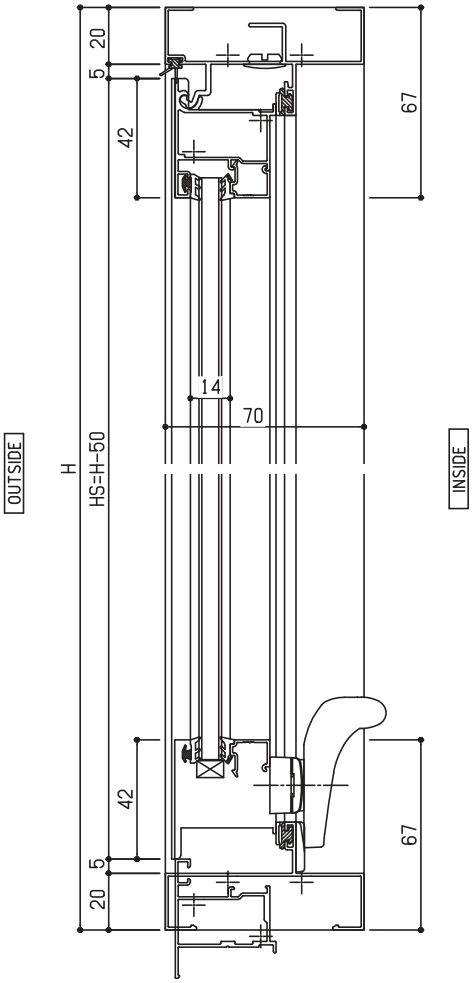
*This price is not included glass, assembling fee, delivery fee and installation fee.

*This price include arm stopper.

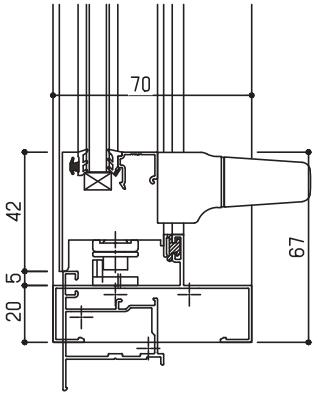
*The handle type is automatically selected according to the size range..
Please check the size limitation graph.

TOP HUNG (FRICTION STAYLESS)

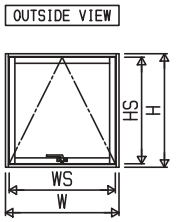
SYSTEM DRAWING

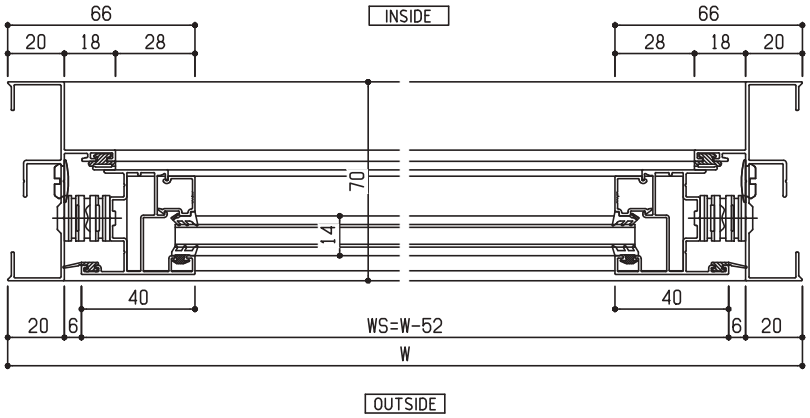


CAMLATCH



MULTIPOINT LOCK





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

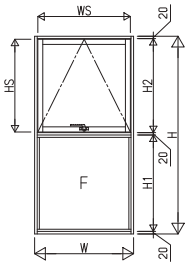
TOP HUNG FRICTION STAYLESS/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

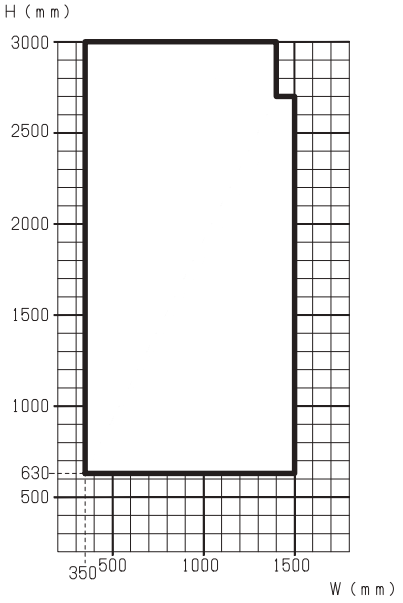


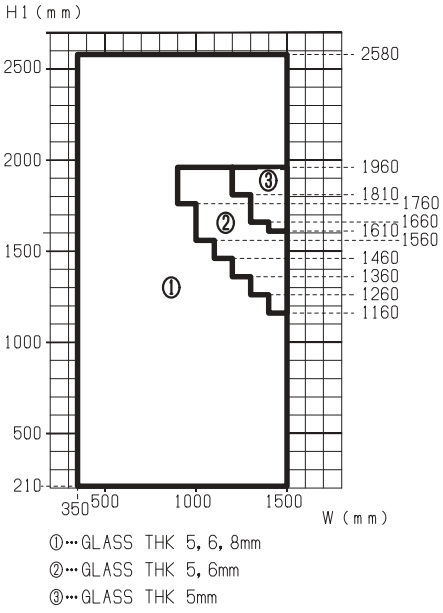
h1, h2 :
System Order
Dimensions

Glass

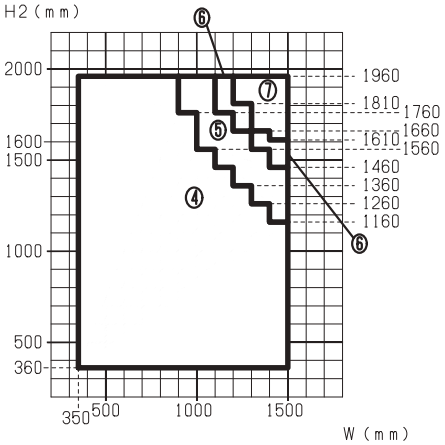
	Glass Size	Qty	Thickness
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62)×(H1-22)	1	5,6,8

Size Limitation





①…GLASS THK 5, 6, 8mm
②…GLASS THK 5, 6mm
③…GLASS THK 5mm



④…GLASS THK 5, 6, 8, (CAMLATCH)
⑤…GLASS THK 5, 6mm (CAMLATCH)
⑥…GLASS THK 5, 6mm (MULTI POINT)
⑦…GLASS THK 5mm (MULTI POINT)

TOP HUNG FRICTION STAYLESS/FIX

PRICE LIST

1 See page **80** for the upper Top Hung Friction Stayless

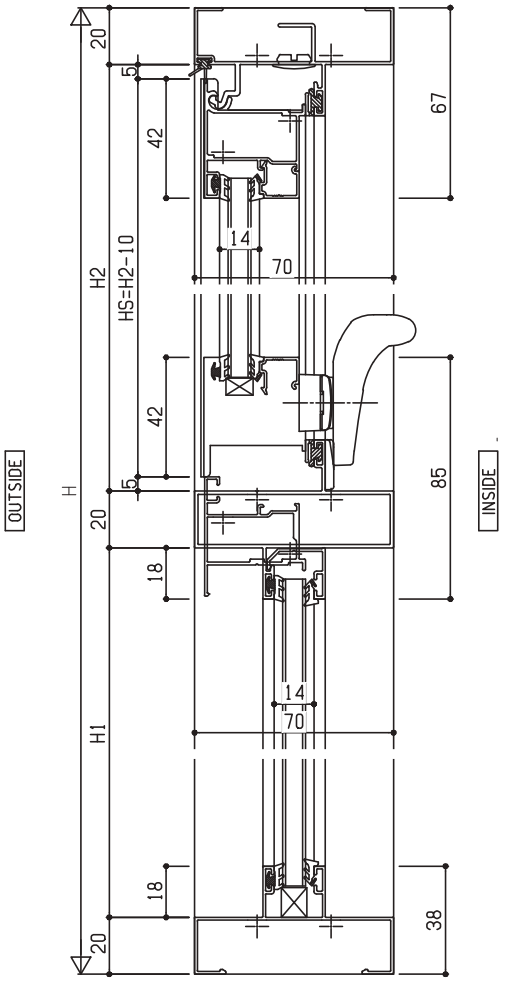
2 See page **52** for the lower FIX

Price : 1 + 2 - TRANSOM

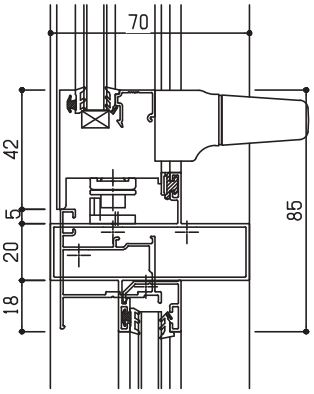
*Please check the price on the MADELA online system.

TOP HUNG FRICTION STAYLESS/FIX

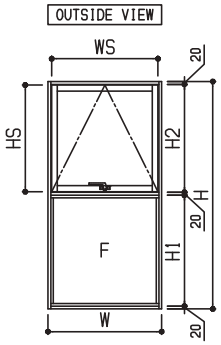
SYSTEM DRAWING

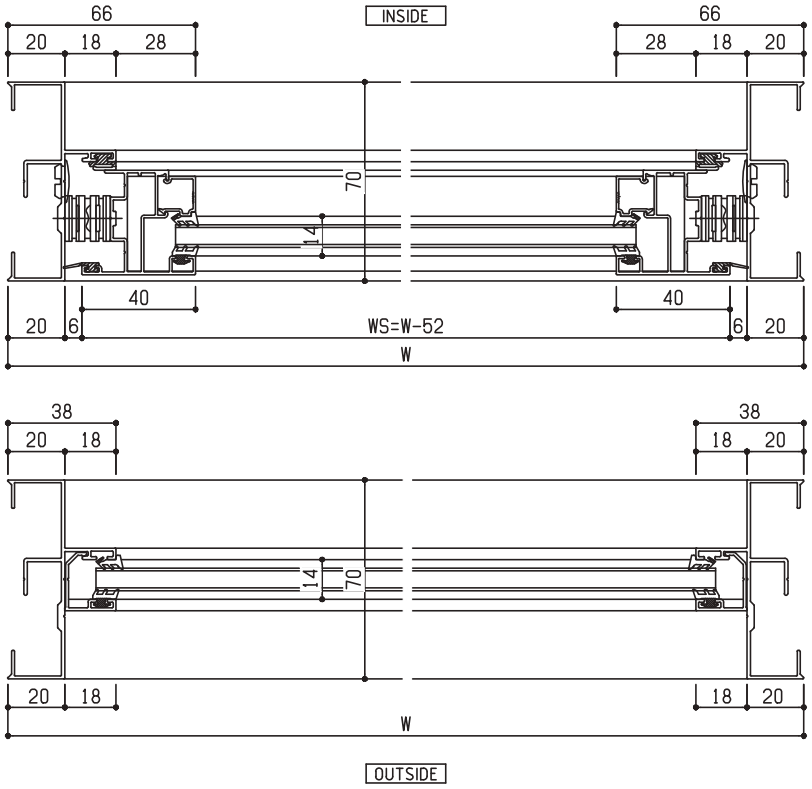


CAMLATCH



MULTIPOINT LOCK





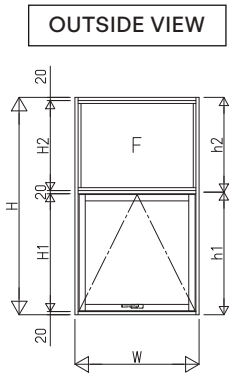
*The handle type is automatically selected according to the size range..
Please check the size limitation graph.

FIX/TOP HUNG FRICTION STAYLESS

Performance

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

Standard Specification

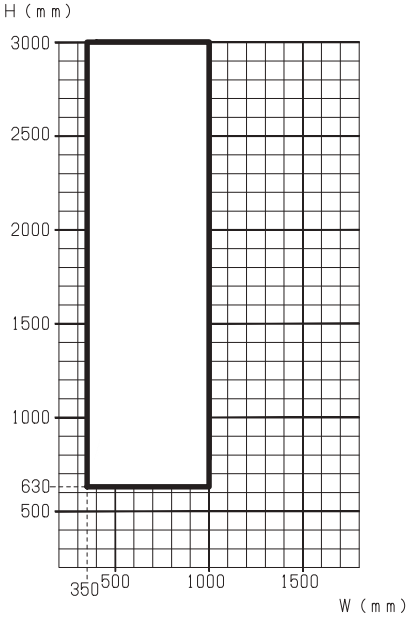


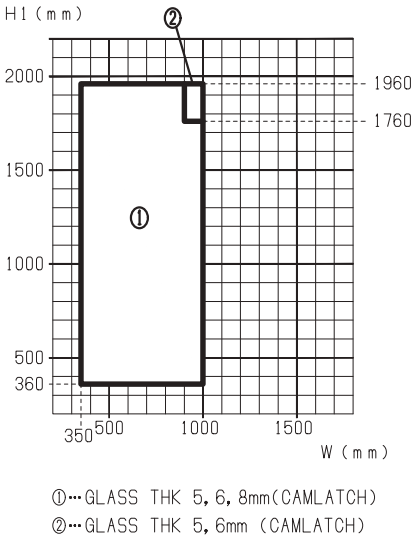
h1, h2 :
System Order
Dimensions

Glass

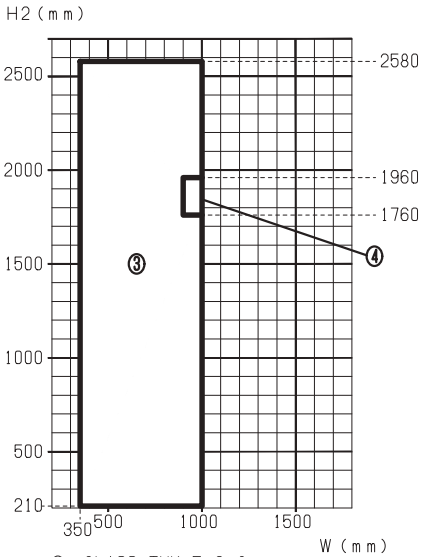
	Glass Size	Qty	Thickness
FIX	(W-62) ×(H2-22)	1	5,6,8
TH	(W-118)×(H1-80)	1	5,6,8

Size Limitation





①…GLASS THK 5, 6, 8mm(CAMLATCH)
②…GLASS THK 5, 6mm (CAMLATCH)



③…GLASS THK 5, 6, 8mm
④…GLASS THK 5, 6mm

FIX/TOP HUNG FRICTION STAYLESS

PRICE LIST

1 See page **52** for the upper FIX

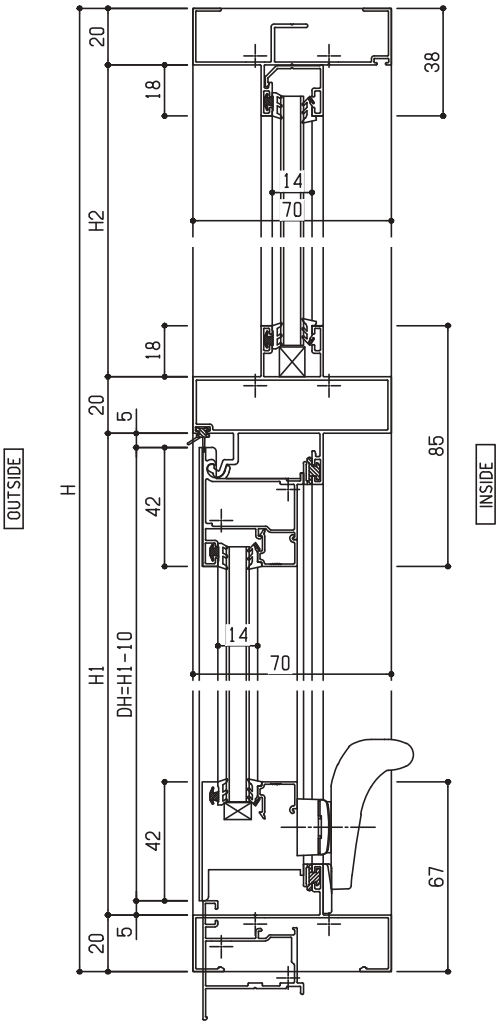
2 See page **80** for the middle Top Hung Friction Stayless

Price : 1 + 2 - TRANSOM

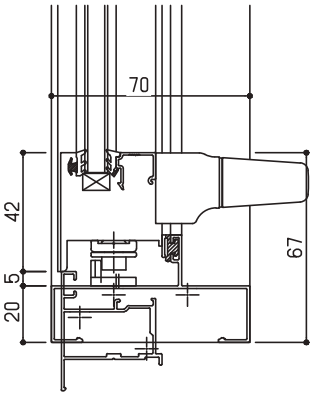
*Please check the price on the MADELA online system.

FIX/TOP HUNG FRICTION STAYLESS

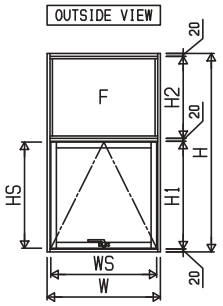
SYSTEM DRAWING

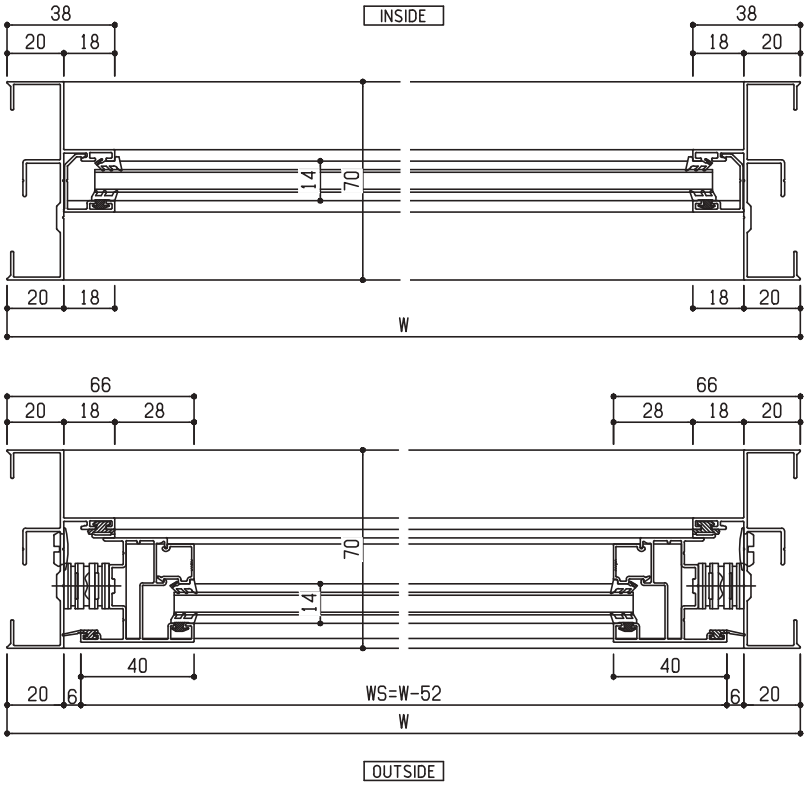


CAMLATCH



MULTIPOINT LOCK





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

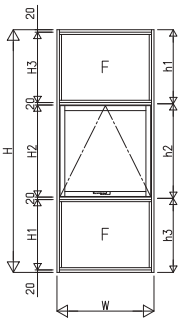
FIX/TOP HUNG FRICTION STAYLESS/FIX

Performance

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

Standard Specification

OUTSIDE VIEW

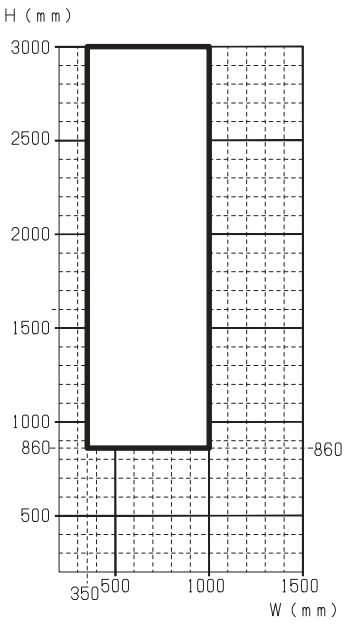


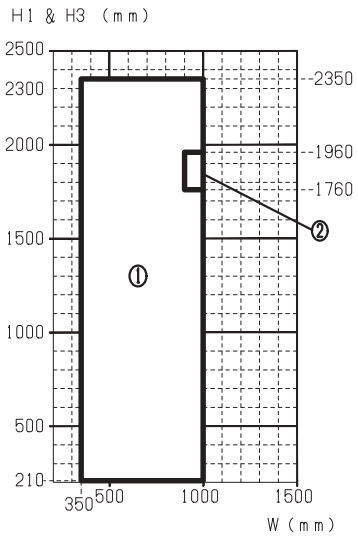
h1, h2, h3 : System Order Dimensions

Glass

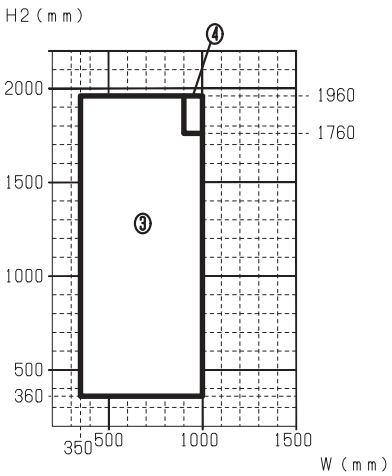
	Glass Size	Qty	Thickness
FIX	(W-62) ×(H3-22)	1	5,6,8
TH	(W-118)×(H2-80)	1	5,6,8
FIX	(W-62) ×(H1-22)	1	5,6,8

Size Limitation





①…GLASS THK 5, 6, 8mm
②…GLASS THK 5, 6mm



③…GLASS THK 5, 6, 8, (CAMLATCH)
④…GLASS THK 5, 6mm (CAMLATCH)

FIX/TOP HUNG FRICTION STAYLESS/FIX

PRICE LIST

1 See page **52** for the upper FIX

2 See page **80** for the middle Top Hung Friction Stayless

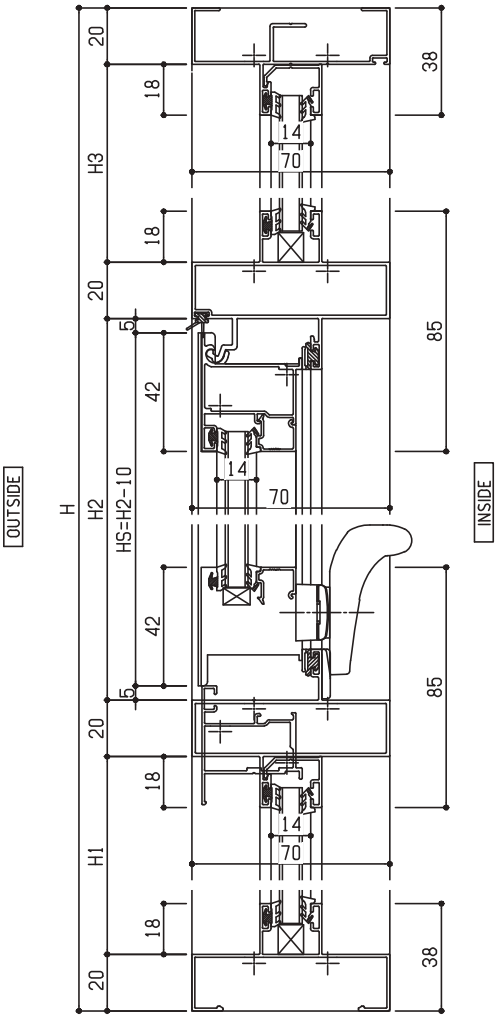
3 See page **52** for the lower FIX

Price : 1 + 2 + 3 - TRANSOM

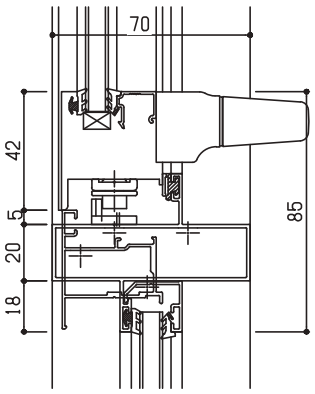
*Please check the price on the MADELA online system.

FIX/TOP HUNG FRICTION STAYLESS/FIX

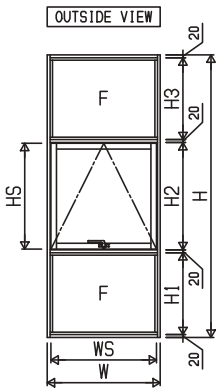
SYSTEM DRAWING

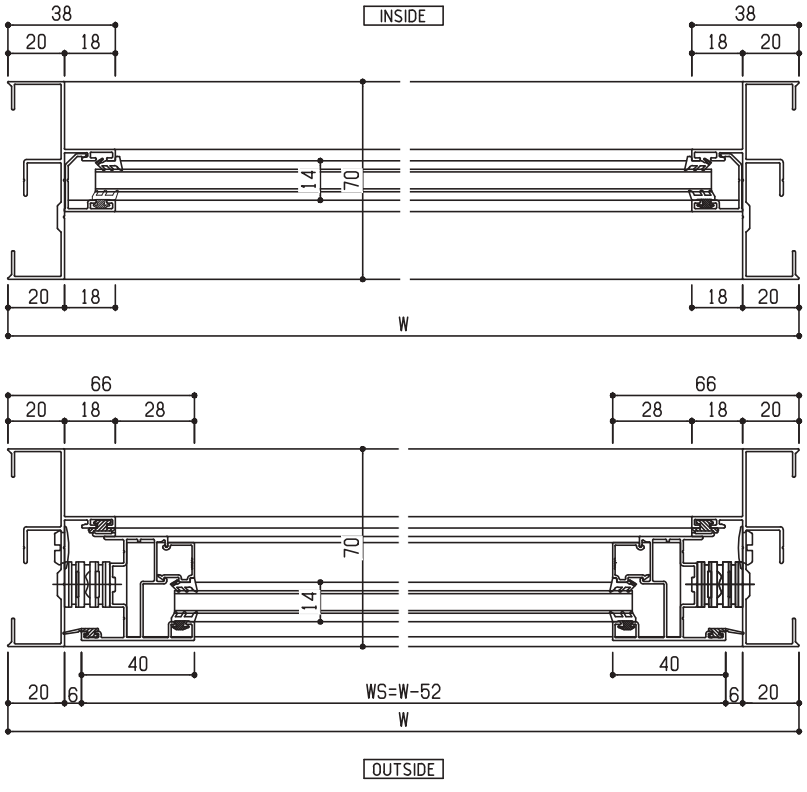


CAMLATCH



MULTIPOINT LOCK





CASEMENT

Performance

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

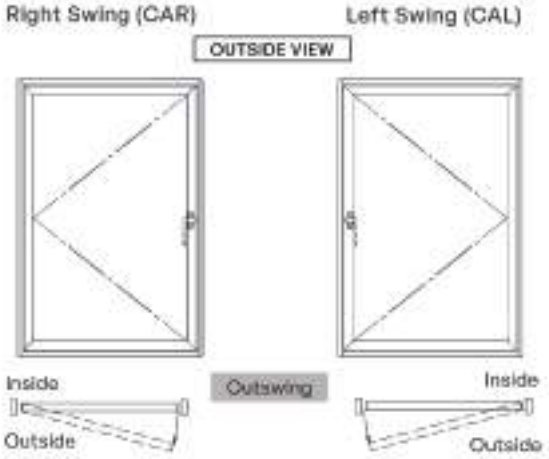
Glass

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

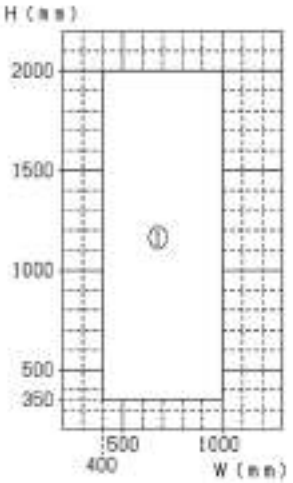
Standard Specifications

Handle Height : a
- H/2
- 625

Variation



Size Limitation



1	Camlatch

CASEMENT
PRICE LIST

Juta Rp

H (mm) \ W (mm)			400	401-500	501-600	601-700	701-800	801-900	901-1.000
350	~	400	0,82	0,86	0,92	0,96	1,00	1,08	1,32
401	~	500	0,86	0,90	0,96	1,00	1,04	1,12	1,36
501	~	600	0,90	0,94	1,00	1,04	1,08	1,16	1,40
601	~	700	0,94	0,98	1,04	1,08	1,12	1,20	1,44
701	~	800	0,98	1,02	1,08	1,12	1,16	1,24	1,48
801	~	900	1,03	1,07	1,13	1,17	1,21	1,29	1,53
901	~	1.000	1,07	1,11	1,17	1,21	1,25	1,33	1,57
1.001	~	1.100	1,12	1,16	1,22	1,26	1,30	1,38	1,62
1.101	~	1.200	1,16	1,20	1,26	1,30	1,34	1,42	1,66
1.201	~	1.300	1,20	1,24	1,30	1,34	1,38	1,47	1,70
1.301	~	1.400	1,25	1,29	1,35	1,39	1,42	1,51	1,74
1.401	~	1.500	1,29	1,33	1,39	1,43	1,46	1,55	1,78
1.501	~	1.600	1,33	1,37	1,43	1,47	1,50	1,59	1,82
1.601	~	1.700	1,37	1,41	1,47	1,51	1,54	1,63	1,86
1.701	~	1.800	1,41	1,45	1,51	1,55	1,58	1,67	1,90
1.801	~	1.900	1,45	1,49	1,55	1,59	1,63	1,71	1,95
1.901	~	2.000	1,49	1,53	1,59	1,63	1,67	1,75	1,99

☐ Handle Camlatch type

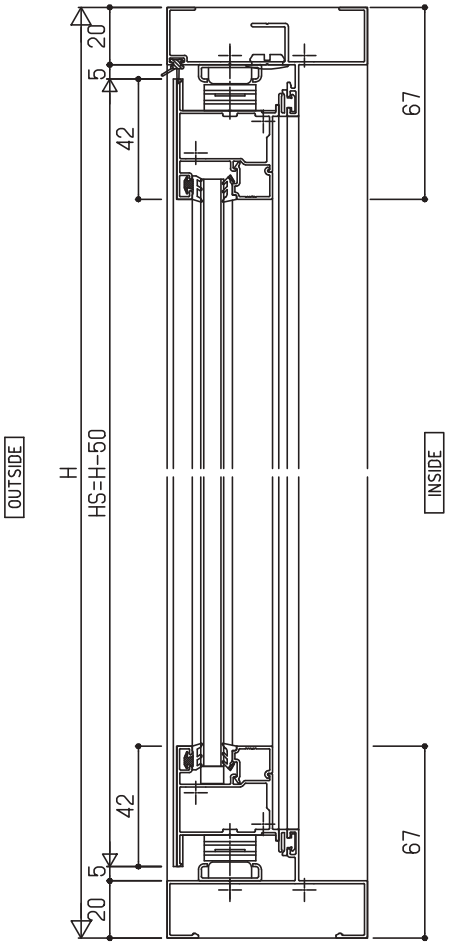
*This price is not included glass, assembling fee, delivery fee and installation fee.

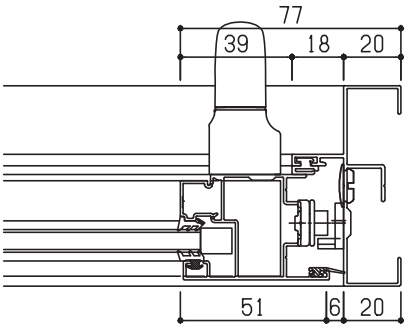
* In case of using friction stay of economy parts, please deduct IDR 67.050,- from the price list above

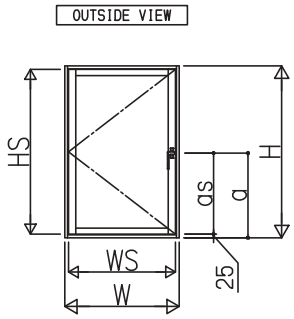
* In case of adding Stopper base on size limitation;

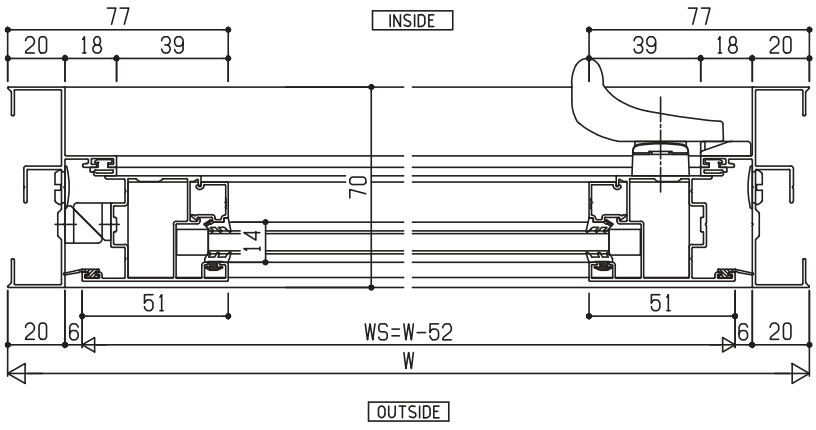
- Arm stopper please add IDR 165.150,- to the price list above.
- Alm Plate 33 mm please add IDR 12.990,- to the price list above.
- Alm Plate 47 mm please add IDR 16.720,- to the price list above.

CASEMENT
SYSTEM DRAWING









CAMLATCH

CASEMENT/FIX

Performance

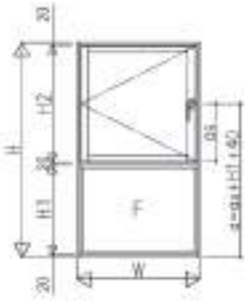
Structural (Wind Load)	600 Pa
Water Tightness	100Pa
Sound Insulation	-25 dB

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

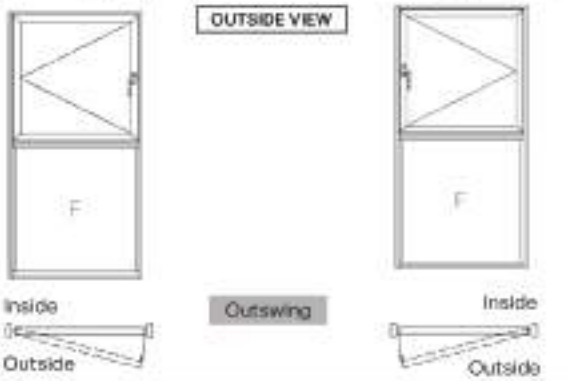
OUTSIDE VIEW



Handle Height : as
- H2/2
- 600

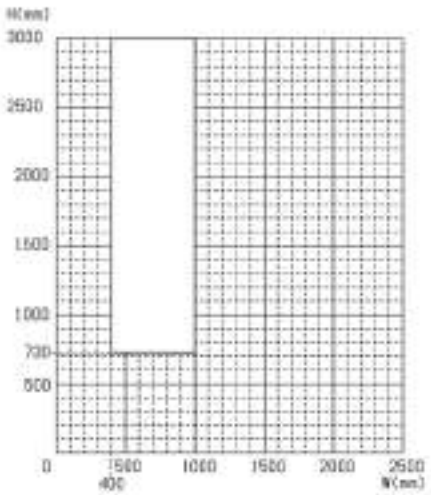
Variation

Right Swing (CAR/FIX) | Left Swing (CAL/FIX)

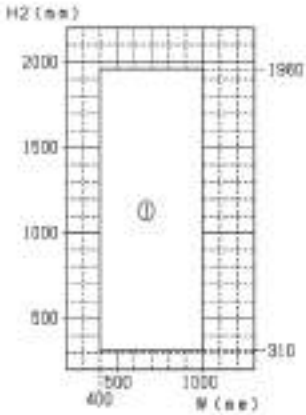


Size Limitation

WH size



H2 size



1	Camlatch

H1 size

360≦H1≦2580

CASEMENT/FIX
PRICE LIST

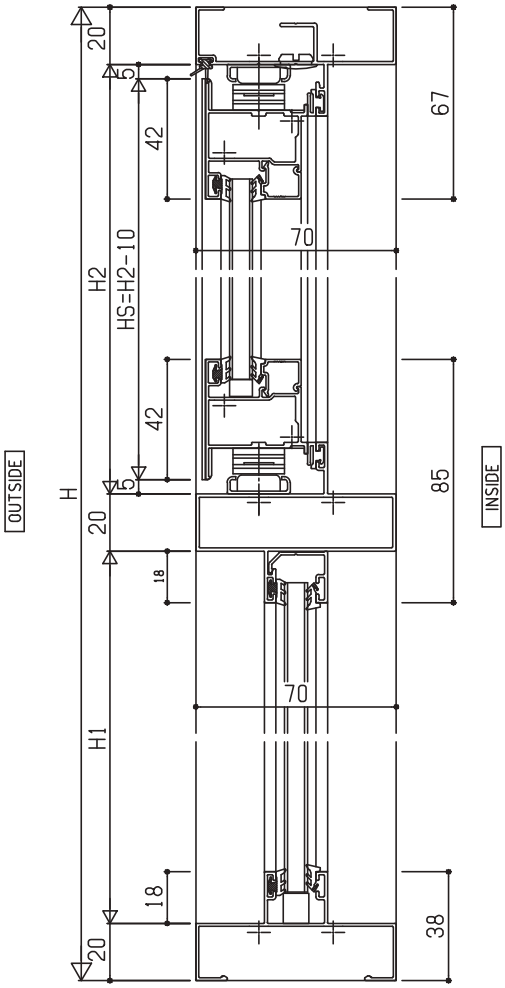
1 See page **96** for the Casement

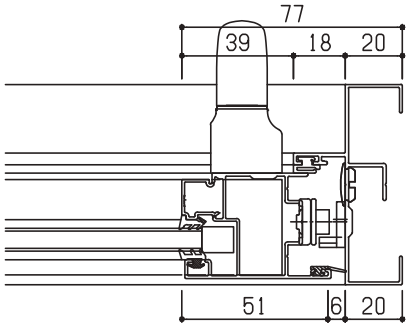
2 See page **52** for the lower FIX

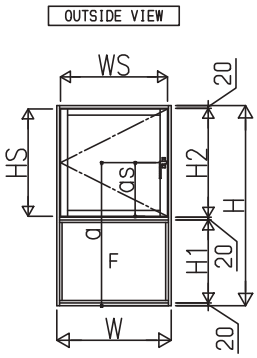
Price : 1 + 2 - TRANSOM

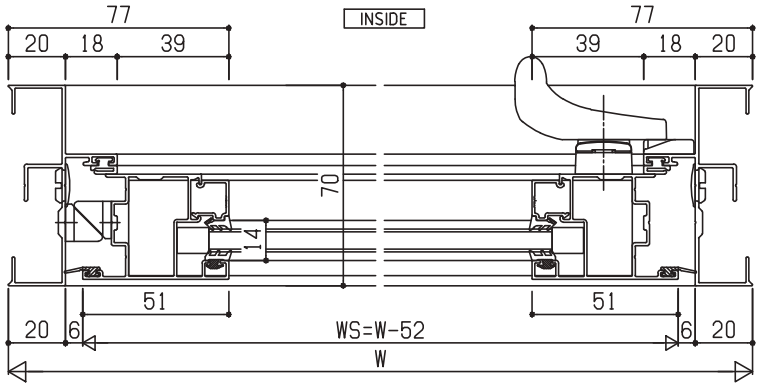
*Please check the price on the MADELA online system.

CASEMENT/FIX
SYSTEM DRAWING

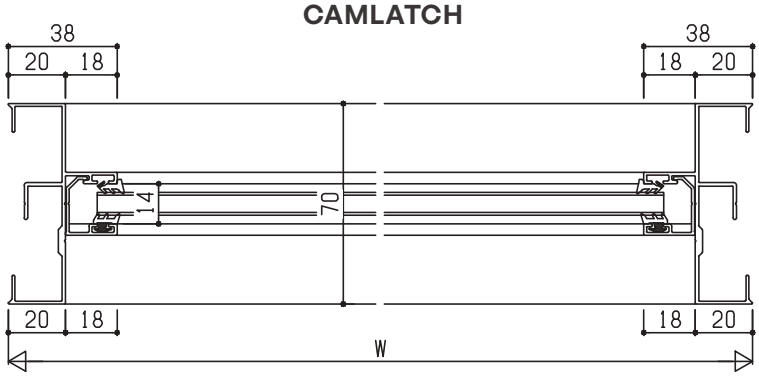








CAMLATCH



OUTSIDE

FIX/CASEMENT

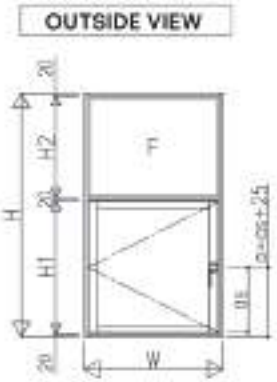
Performance

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

Glass

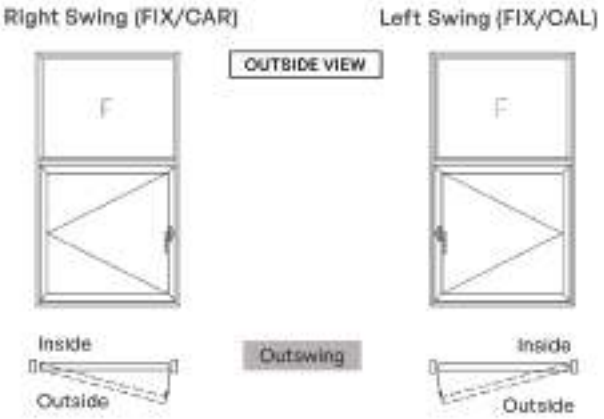
	Glass Size	Qty	Thickness
FIX	(W-62) ×(H2-22)	1	5,6,8
CA	(W-140) ×(H1-80)	1	5,6,8

Standard Specifications



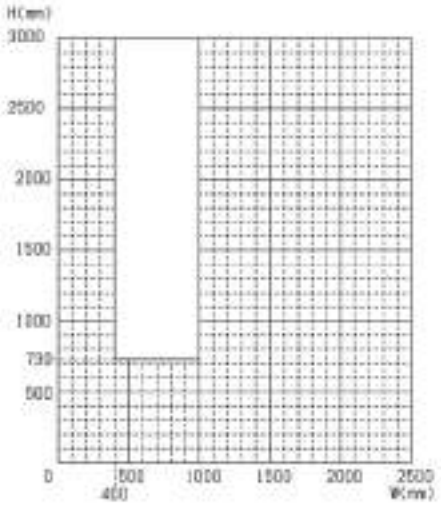
Handle Height : as
- H1/2
- 600

Variation

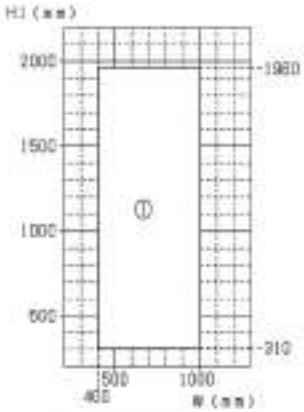


Size Limitation

WH size



H1 size



1	Camlatch

H2 size

360≦H2≦2580

FIX/CASEMENT
PRICE LIST

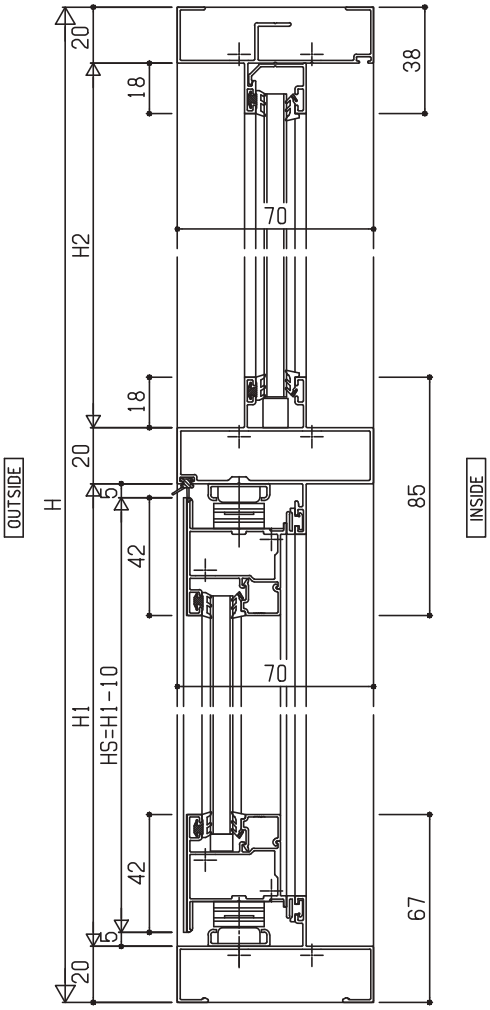
1 See page **52** for the upper FIX

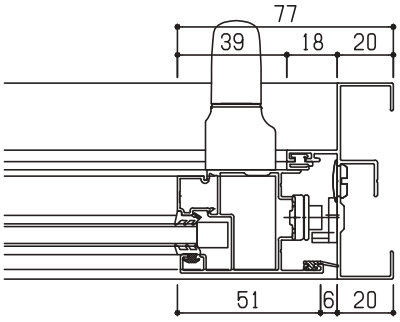
2 See page **96** for the lower Casement

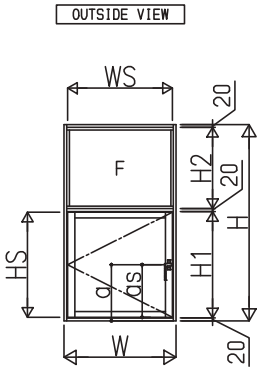
Price : 1 + 2 - TRANSOM

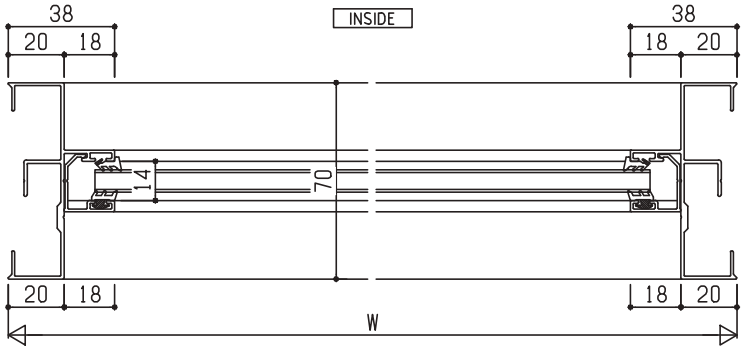
*Please check the price on the MADELA online system.

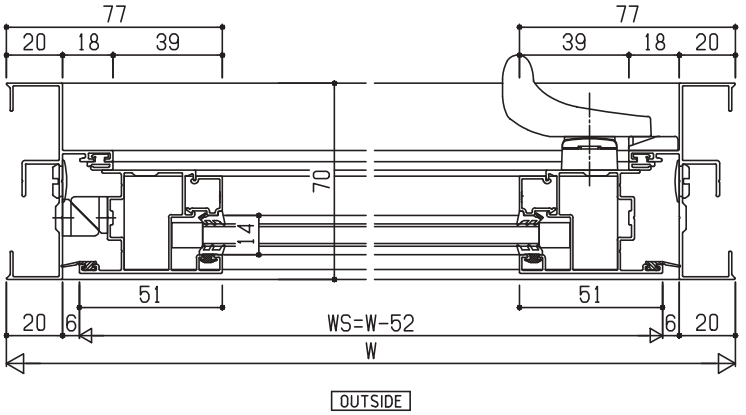
FIX/CASEMENT
SYSTEM DRAWING











CAMLATCH

FIX/CASEMENT/FIX

Performance

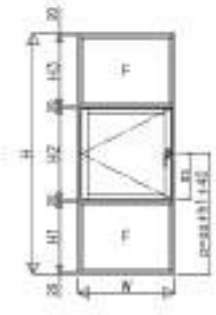
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

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

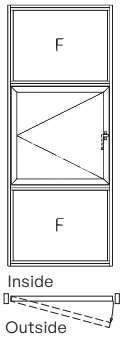
OUTSIDE VIEW



Handle Height : as
- H2/2
- 600

Variation

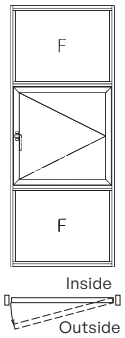
Right Swing (FIX/CAR/FIX)



OUTSIDE VIEW

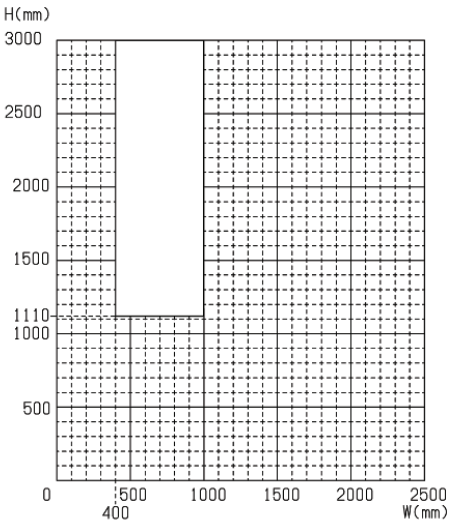
Outswing

Left Swing (FIX/CAL/FIX)

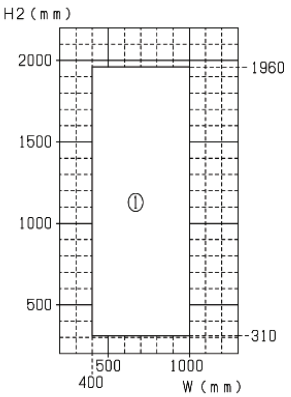


Size Limitation

WH size



H2 size



1	Camlatch

H1, H3 size

360≦H3≦2200
360≦H1≦2200

FIX/CASEMENT/FIX

PRICE LIST

1 See page **52** for the upper FIX

2 See page **96** for the middle Casement

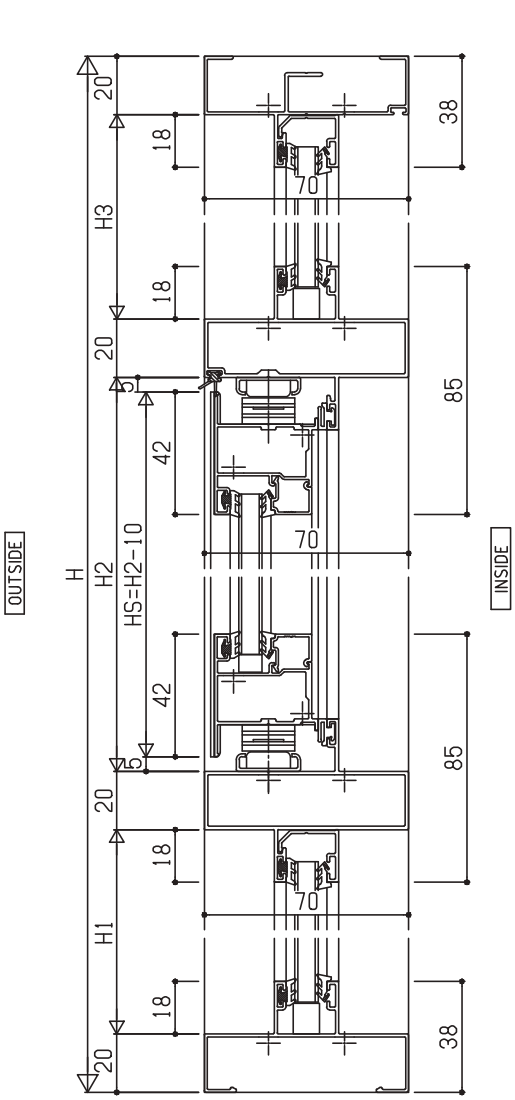
3 See page **52** for the lower FIX

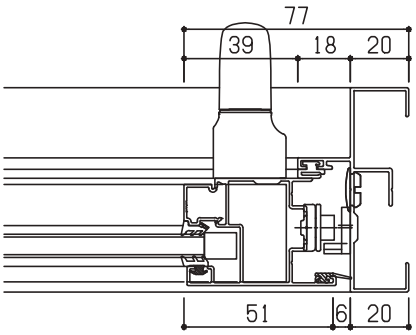
Price : 1 + 2 + 3 + TRANSOM

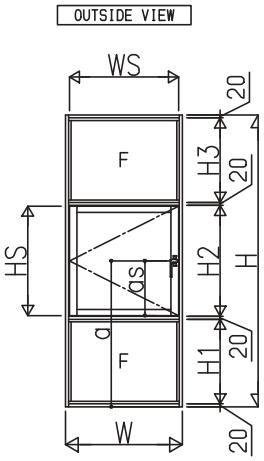
*Please check the price on the MADELA online system.

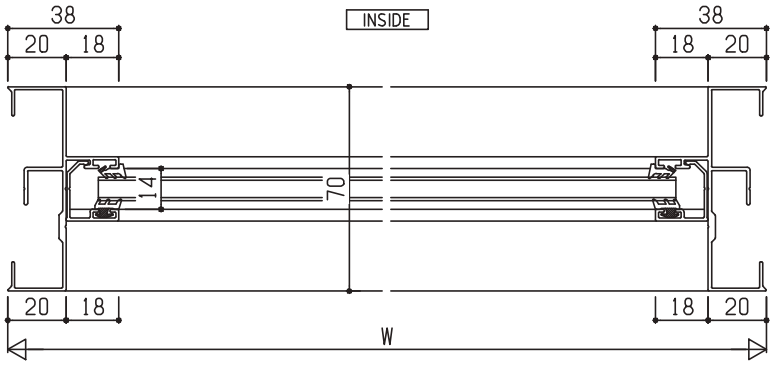
FIX/CASEMENT/FIX

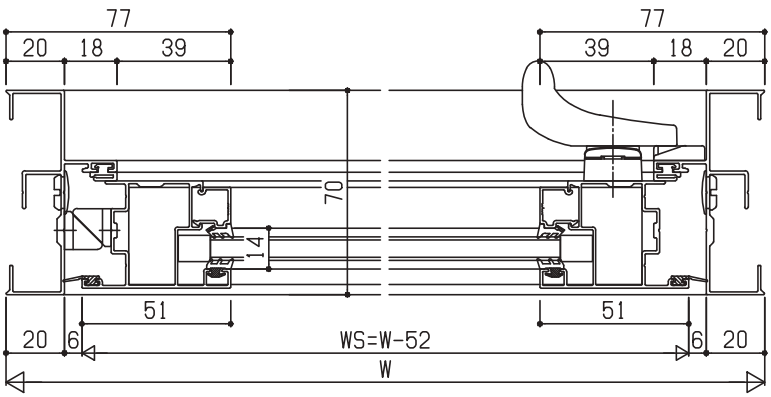
SYSTEM DRAWING











CAMLATCH

DOOR (WITHOUT SILL)

Without Sill
With Handle set

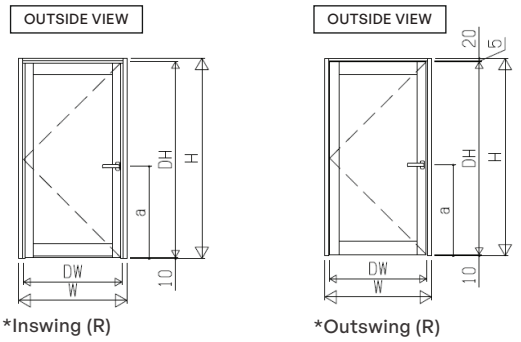
Performance

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

Glass

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

Standard Specifications

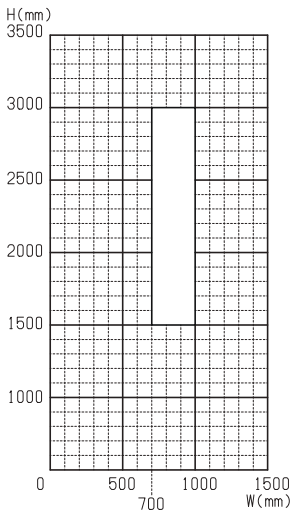


*Inswing (R) *Outswing (R)

Handle Height : a = 1000

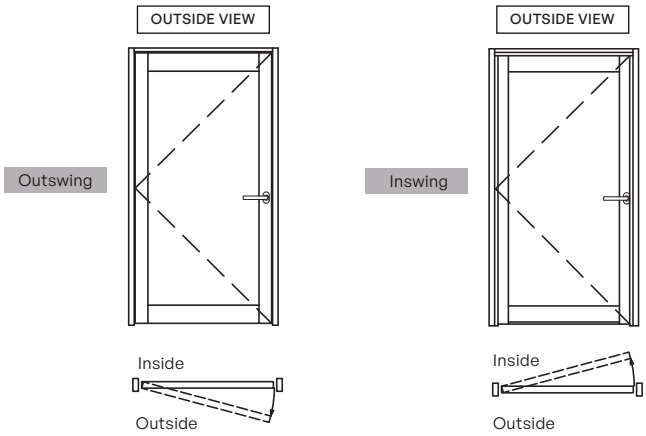
Size Limitation

No Sill/Low Rise

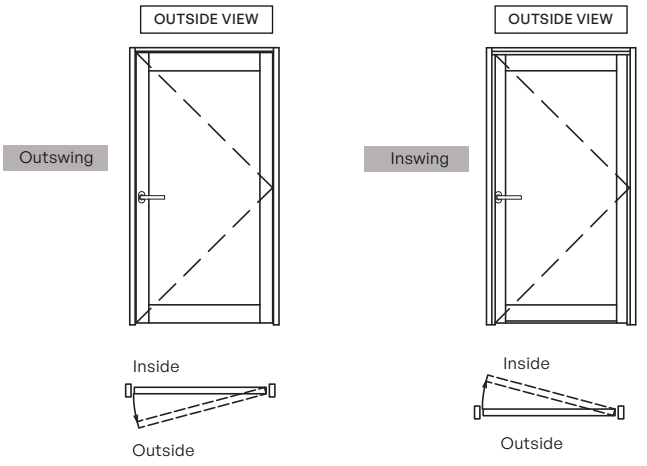


Variation

Right Swing (DOOR-CR)



Left Swing (DOOR-CL)



DOOR (WITHOUT SILL)
PRICE LIST

SINGLE DOOR
FRAME AND INNER PRICE

Juta Rp

W (mm) / H (mm)	700	701–800	801–900	901–1,000
1,500	2.00	2.04	2.09	2.14
1,501 ～ 1,600	2.05	2.10	2.14	2.19
1,601 ～ 1,700	2.10	2.15	2.20	2.25
1,701 ～ 1,800	2.16	2.20	2.25	2.30
1,801 ～ 1,900	2.21	2.26	2.31	2.35
1,901 ～ 2,000	2.27	2.31	2.36	2.41
2,001 ～ 2,100	2.32	2.37	2.42	2.46
2,101 ～ 2,200	2.37	2.42	2.47	2.52
2,201 ～ 2,300	2.43	2.48	2.52	2.57
2,301 ～ 2,400	2.48	2.53	2.58	2.63
2,401 ～ 2,500	2.54	2.58	2.63	2.68
2,501 ～ 2,600	2.59	2.64	2.69	2.73
2,601 ～ 2,700	2.65	2.69	2.74	2.79
2,701 ～ 2,800	2.70	2.75	2.80	2.84
2,801 ～ 2,900	2.75	2.80	2.85	2.90
2,901 ～ 3,000	2.81	2.86	2.90	2.95

HANDLE SET PRICE

For the specifications with Handle set, 0.4 juta/set will be added to the price frame and inner frame.

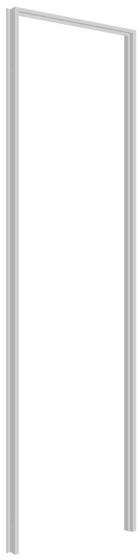
Handle set preview

SINGLE DOOR OUTER ONLY

Juta Rp

W (mm) / H (mm)	700	701–800	801–900	901–1,000
1,500	1.01	1.02	1.03	1.04
1,501 ～ 1,600	1.03	1.04	1.05	1.06
1,601 ～ 1,700	1.05	1.06	1.07	1.08
1,701 ～ 1,800	1.07	1.08	1.09	1.10
1,801 ～ 1,900	1.09	1.10	1.11	1.12
1,901 ～ 2,000	1.12	1.13	1.14	1.15
2,001 ～ 2,100	1.14	1.15	1.16	1.17
2,101 ～ 2,200	1.16	1.17	1.18	1.19
2,201 ～ 2,300	1.18	1.19	1.20	1.21
2,301 ～ 2,400	1.20	1.21	1.22	1.23
2,401 ～ 2,500	1.23	1.24	1.25	1.26
2,501 ～ 2,600	1.25	1.26	1.27	1.28
2,601 ～ 2,700	1.27	1.28	1.29	1.30
2,701 ～ 2,800	1.29	1.30	1.31	1.32
2,801 ～ 2,900	1.31	1.32	1.33	1.34
2,901 ～ 3,000	1.34	1.35	1.36	1.37

Outer preview



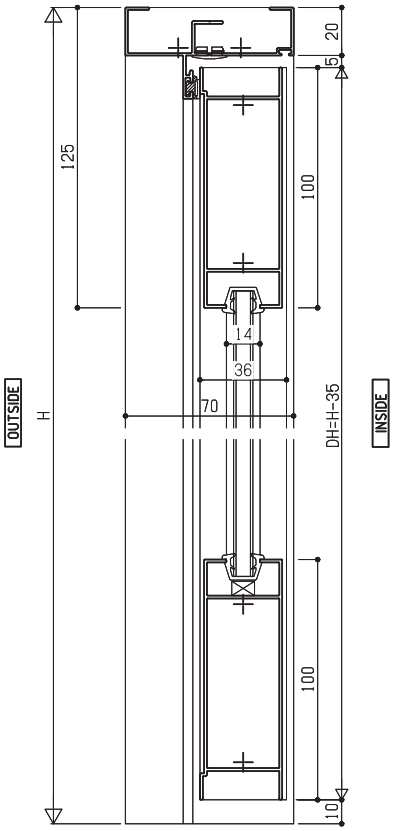
* This price does not include glass, assembing fee, delivery fee and installation fee.

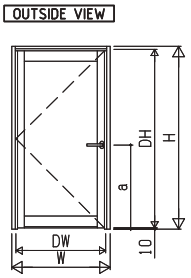
DOOR (WITHOUT SILL)

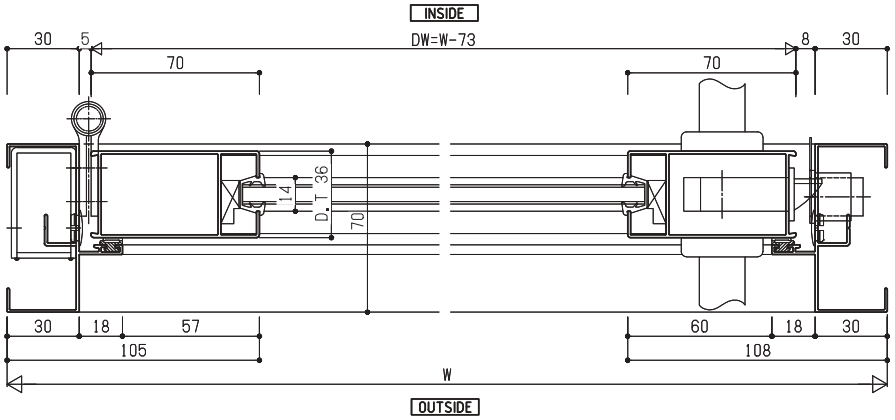
SYSTEM DRAWING

INSWING

(R)





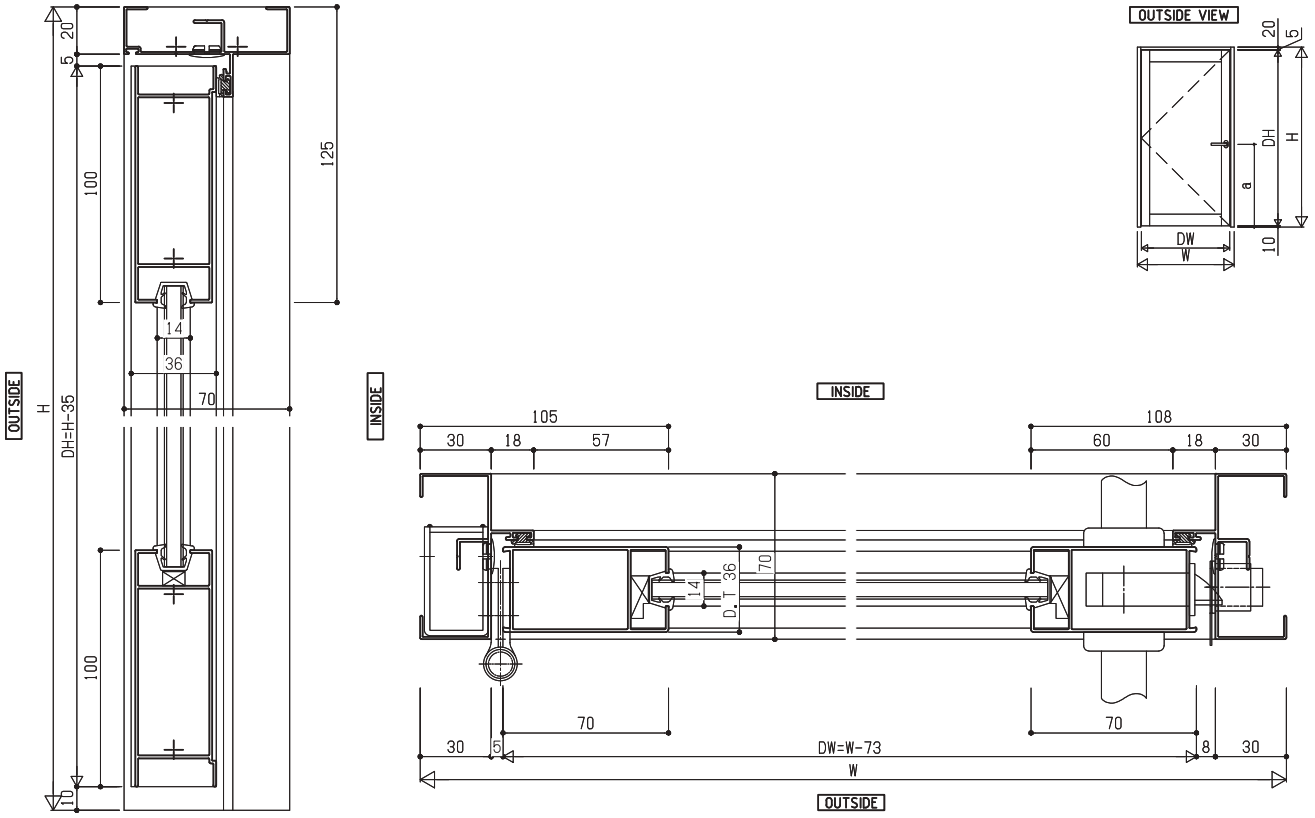


DOOR (WITHOUT SILL)

SYSTEM DRAWING

OUTSWING

(R)



FIX/DOOR (WITHOUT SILL)

Without Sill
With Handle set

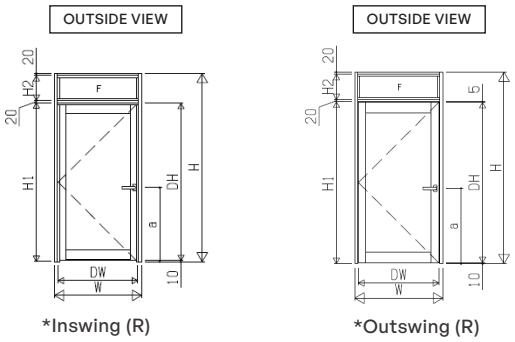
Performance

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

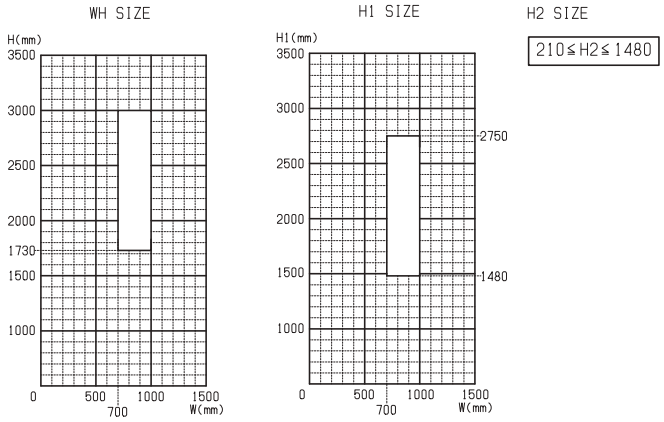


*Inswing (R)

*Outswing (R)

Handle Height : a = 1000

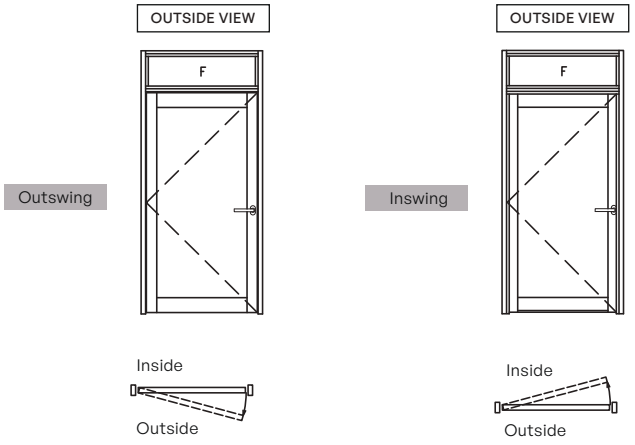
Size Limitation



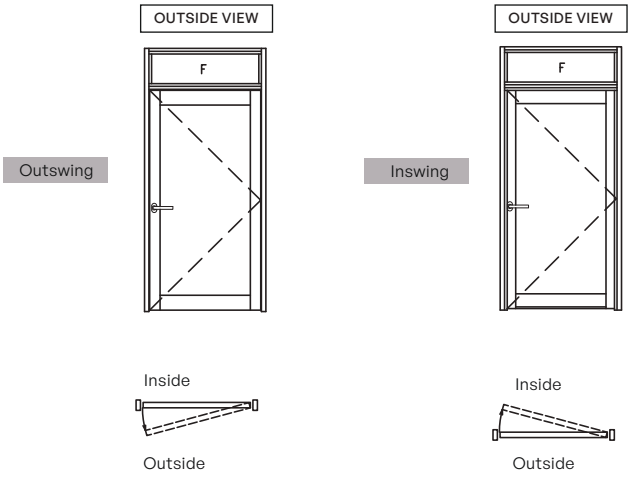
※Glass 5, 6, 8mm THK
※It isn't limited by strength.
This is a standard size.

Variation

Right Swing (FIX/DOOR-CR)



Left Swing (FIX/DOOR-CL)



FIX/DOOR (WITHOUT SILL)

PRICE LIST

1 See page **52** for the upper FIX

2 See page **112** for the lower Door

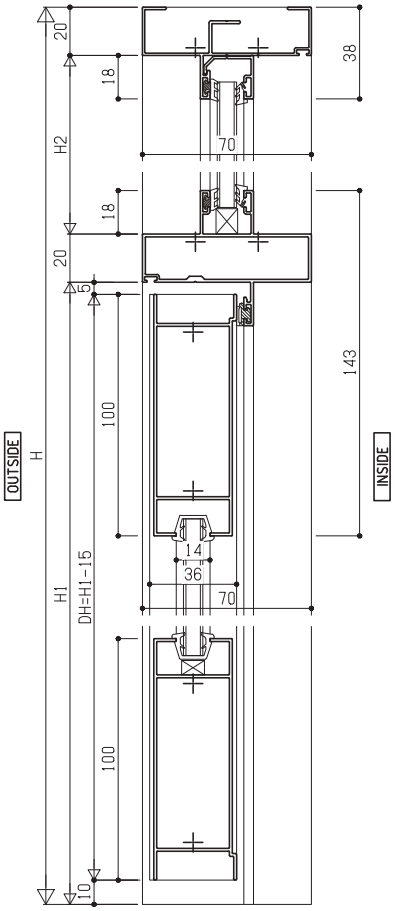
Price : 1 + 2 - TRANSOM

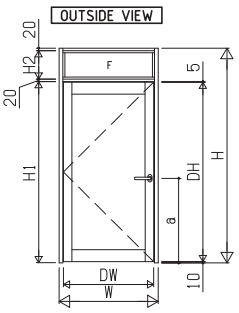
*Please check the price on the MADELA online system.

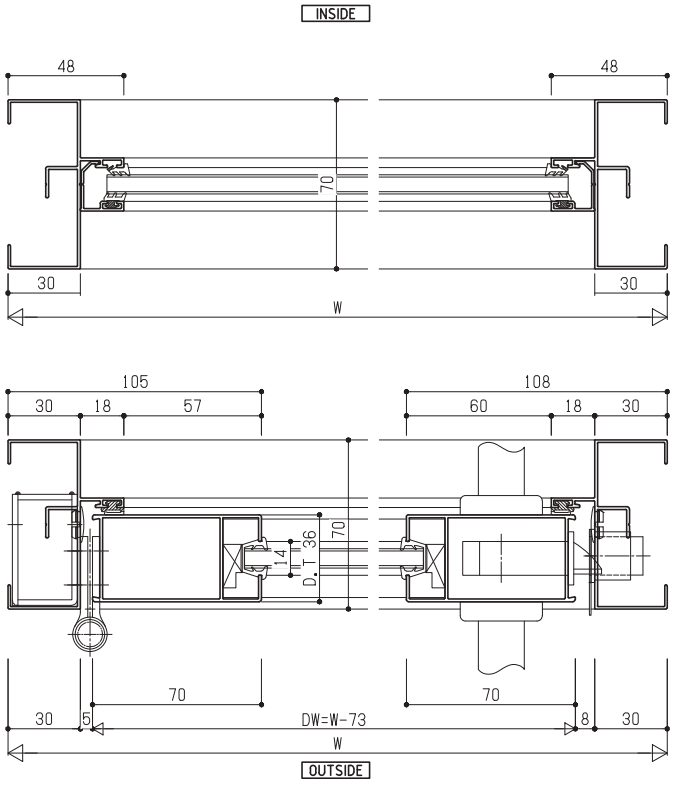
FIX/DOOR (WITHOUT SILL)

SYSTEM DRAWING

INSWING



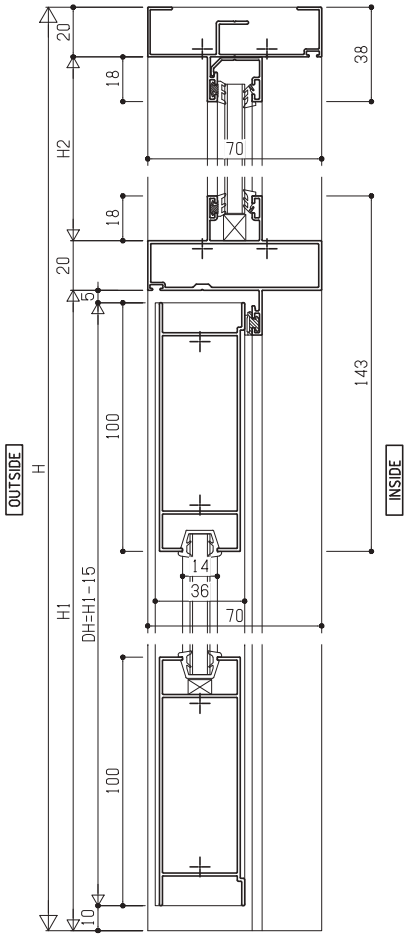


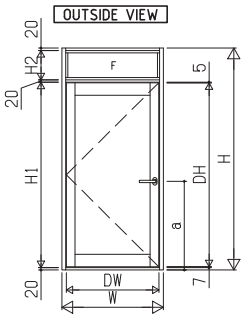


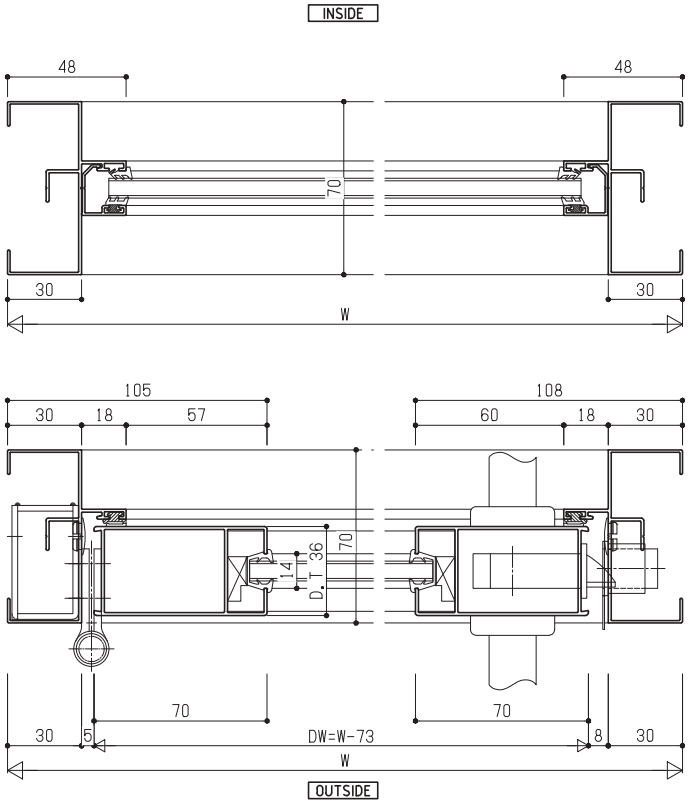
FIX/DOOR (WITHOUT SILL)

SYSTEM DRAWING

OUTSWING







DOUBLE DOOR (WITHOUT SILL)

Without Sill
With Handle set

Performance

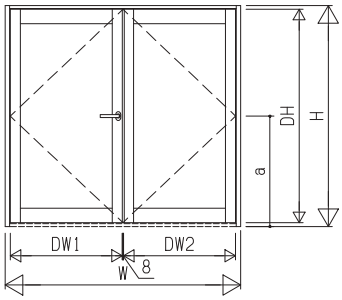
Structural (Wind Load)	-
Water Tightness	-
Sound Insulation	-

Glass

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

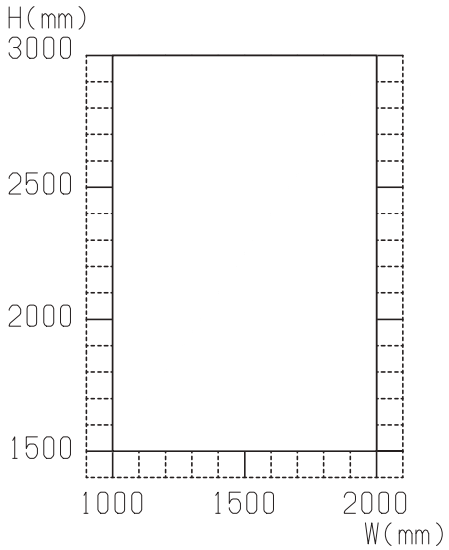
Standard Specifications

OUTSIDE VIEW



Handle Height : a = 1000

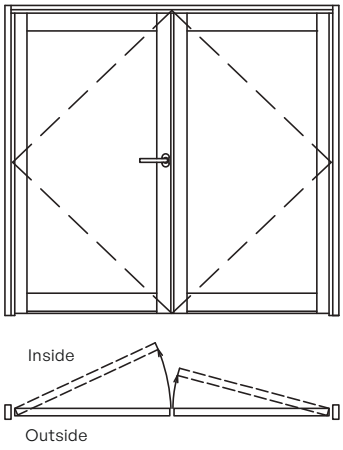
Size Limitation



Variation

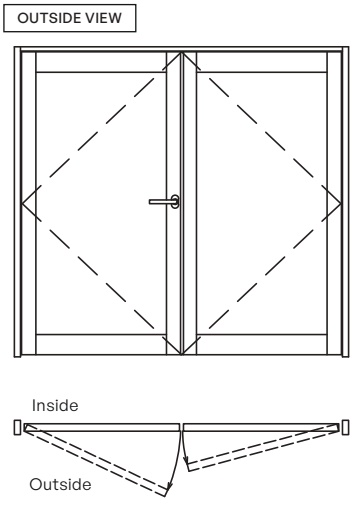
Inswing

OUTSIDE VIEW



Outswing

OUTSIDE VIEW



DOUBLE DOOR (WITHOUT SILL)

PRICE LIST

DOUBLE DOOR

Juta Rp

FRAME AND INNER PRICE

W (mm) / H (mm)	1,000	1,001–1,100	1,101–1,200	1,201–1,300	1,301–1,400	1,401–1,500	1,501–1,600	1,601–1,700	1,701–1,800	1,801–1,900	1,901–2,000
1,500	3.53	3.58	3.62	3.67	3.72	3.76	3.81	3.86	3.90	3.95	4.00
1,501 ～ 1,600	3.61	3.66	3.71	3.75	3.80	3.85	3.89	3.94	3.99	4.03	4.08
1,601 ～ 1,700	3.70	3.74	3.79	3.83	3.88	3.93	3.97	4.02	4.07	4.11	4.16
1,701 ～ 1,800	3.78	3.82	3.87	3.92	3.96	4.01	4.06	4.10	4.15	4.19	4.24
1,801 ～ 1,900	3.86	3.91	3.95	4.00	4.04	4.09	4.14	4.18	4.23	4.28	4.32
1,901 ～ 2,000	3.94	3.99	4.03	4.08	4.13	4.17	4.22	4.27	4.31	4.36	4.40
2,001 ～ 2,100	4.02	4.07	4.12	4.16	4.21	4.25	4.30	4.35	4.39	4.44	4.49
2,101 ～ 2,200	4.11	4.15	4.20	4.24	4.29	4.34	4.38	4.43	4.48	4.52	4.57
2,201 ～ 2,300	4.19	4.23	4.28	4.33	4.37	4.42	4.46	4.51	4.56	4.60	4.65
2,301 ～ 2,400	4.27	4.32	4.36	4.41	4.45	4.50	4.55	4.59	4.64	4.69	4.73
2,401 ～ 2,500	4.35	4.40	4.44	4.49	4.54	4.58	4.63	4.67	4.72	4.77	4.81
2,501 ～ 2,600	4.43	4.48	4.53	4.57	4.62	4.66	4.71	4.76	4.80	4.85	4.90
2,601 ～ 2,700	4.51	4.56	4.61	4.65	4.70	4.75	4.79	4.84	4.89	4.93	4.98
2,701 ～ 2,800	4.60	4.64	4.69	4.74	4.78	4.83	4.87	4.92	4.97	5.01	5.06
2,801 ～ 2,900	4.68	4.72	4.77	4.82	4.86	4.91	4.96	5.00	5.05	5.10	5.14
2,901 ～ 3,000	4.76	4.81	4.85	4.90	4.95	4.99	5.04	5.08	5.13	5.18	5.22

HANDLE SET PRICE

- For the price above does not include handle set.
- For the specifications with Handle set, 0.4 juta/set will be added to the door price frame and inner frame.

DOUBLE DOOR OUTER ONLY

Juta Rp

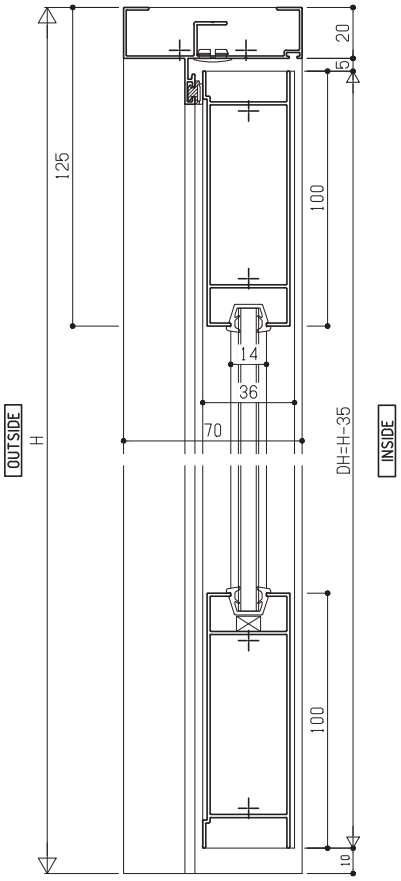
W (mm) / H (mm)	1,000	1,001–1,100	1,101–1,200	1,201–1,300	1,301–1,400	1,401–1,500	1,501–1,600	1,601–1,700	1,701–1,800	1,801–1,900	1,901–2,000
1,500	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52
1,501 ～ 1,600	1.44	1.45	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54
1,601 ～ 1,700	1.46	1.47	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56
1,701 ～ 1,800	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58
1,801 ～ 1,900	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60
1,901 ～ 2,000	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62
2,001 ～ 2,100	1.54	1.55	1.56	1.57	1.58	1.59	1.60	1.61	1.62	1.63	1.64
2,101 ～ 2,200	1.56	1.57	1.58	1.59	1.60	1.62	1.63	1.64	1.65	1.66	1.67
2,201 ～ 2,300	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69
2,301 ～ 2,400	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71
2,401 ～ 2,500	1.63	1.64	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73
2,501 ～ 2,600	1.65	1.66	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75
2,601 ～ 2,700	1.67	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77
2,701 ～ 2,800	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79
2,801 ～ 2,900	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81
2,901 ～ 3,000	1.74	1.75	1.76	1.77	1.78	1.79	1.80	1.81	1.82	1.83	1.84

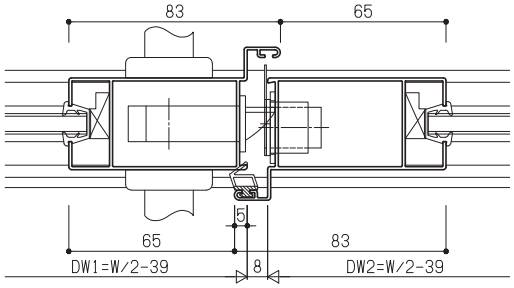
* This price does not include glass, handle set, assembing fee, delivery fee and installation fee.

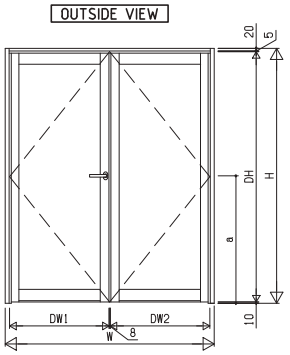
DOUBLE DOOR (WITHOUT SILL)

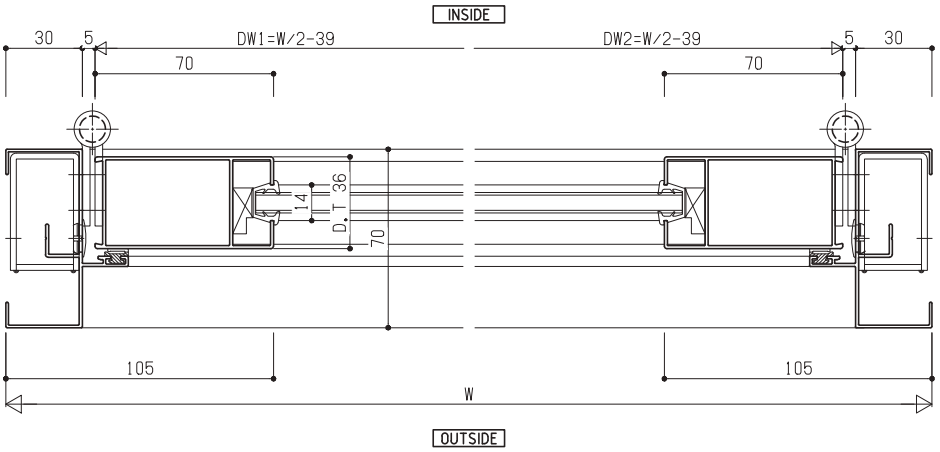
SYSTEM DRAWING

INSWING





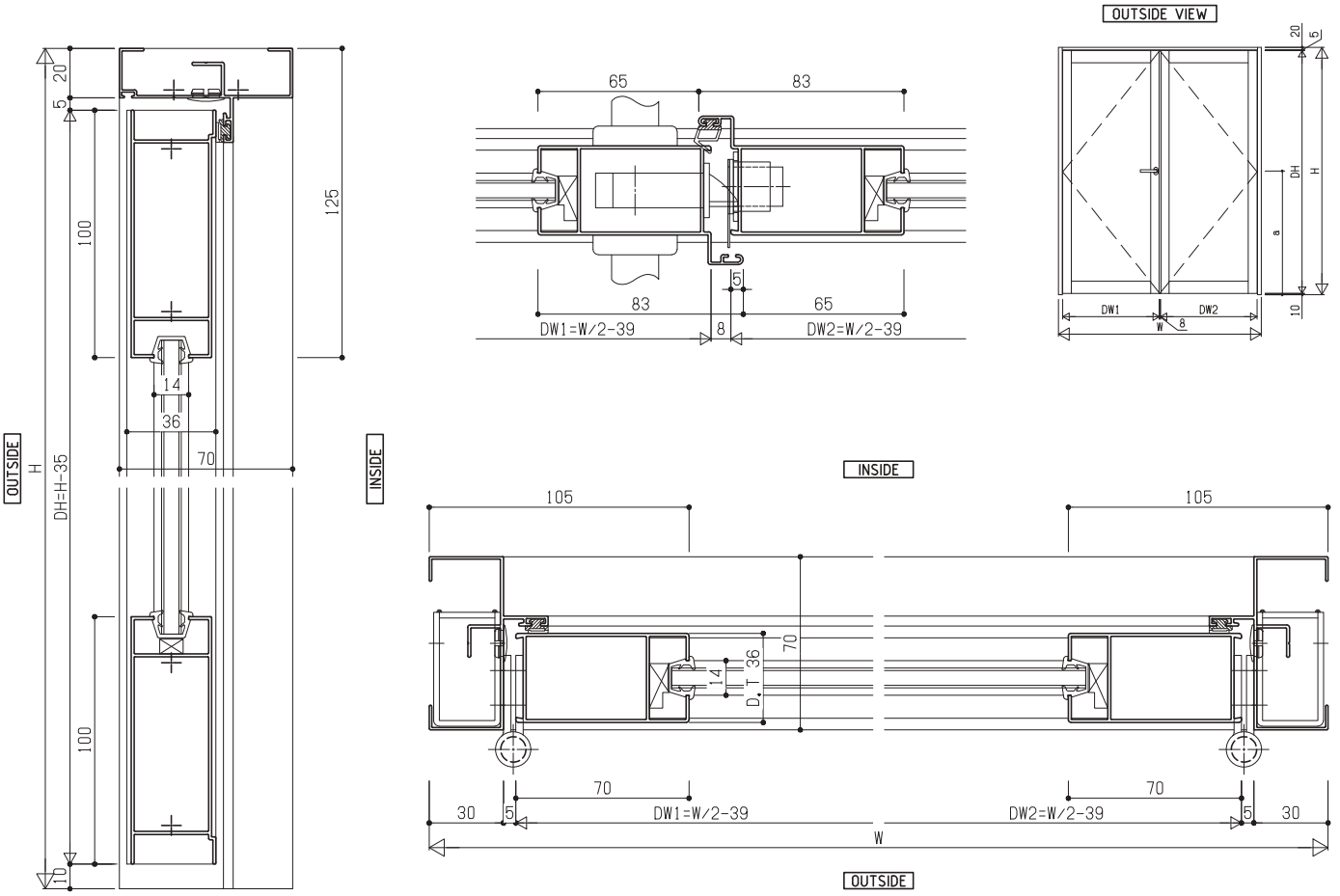




DOUBLE DOOR (WITHOUT SILL)

SYSTEM DRAWING

OUTSWING



FIX/DOUBLE DOOR (WITHOUT SILL)

Without Sill
With Lockset

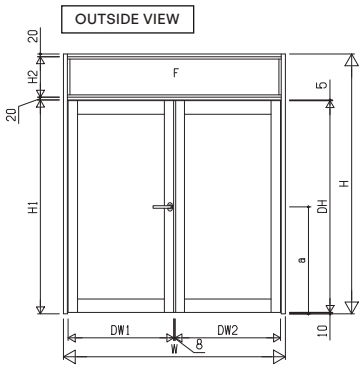
Performance

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

Glass

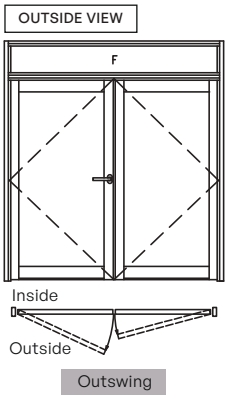
	Glass Size	Qty	Thickness
Door	(W/2-165)(H1-201)	1	5,6,8
FIX	(W-82)(H2-22)	1	5,6,8

Standard Specifications

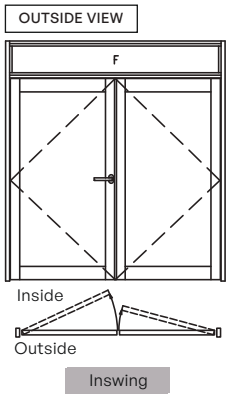


Handle Height : a = 1000

Variation

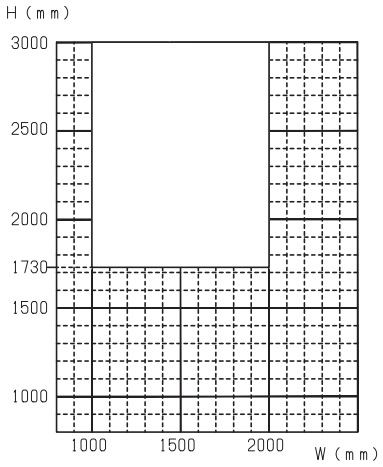


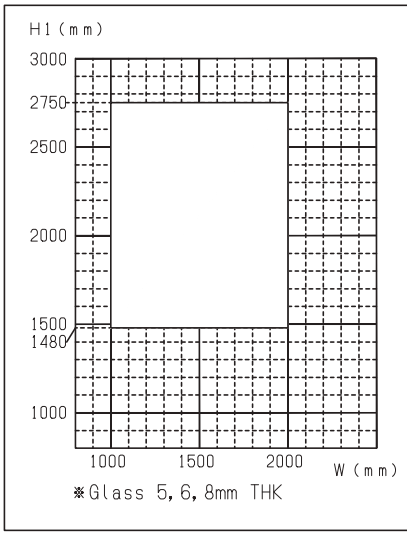
Outswing

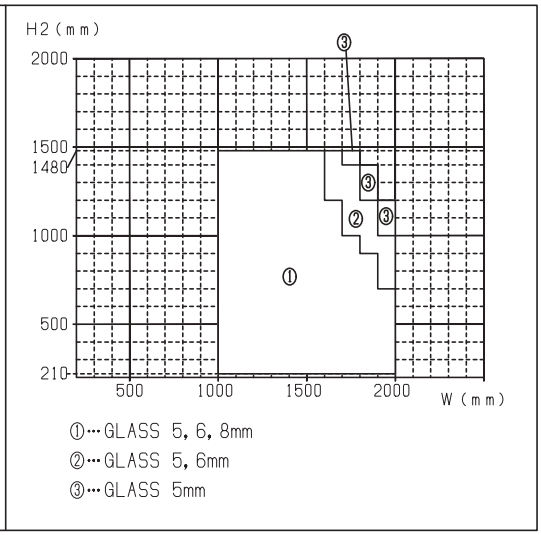


Inswing

Size Limitation







FIX/DOUBLE DOOR (WITHOUT SILL)

PRICE LIST

1 See the price list below for the upper FIX

2 See page **120** for the lower Door

Price : 1 + 2

FIX (Transom Price Included)

Outer + Inner

Juta Rp

H (mm) \ W (mm)	1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000
300	0.48	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.62	0.64
301 ~ 400	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.66
401 ~ 500	0.53	0.54	0.56	0.58	0.59	0.61	0.62	0.64	0.66	0.67	0.69
501 ~ 600	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.71
601 ~ 700	0.58	0.59	0.61	0.62	0.64	0.66	0.67	0.69	0.71	0.72	0.74
701 ~ 800	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.72	0.73	0.75	0.76
801 ~ 900	0.63	0.64	0.66	0.68	0.69	0.71	0.72	0.74	0.76	0.77	0.79
901 ~ 1,000	0.65	0.67	0.68	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.81
1,001 ~ 1,100	0.68	0.69	0.71	0.73	0.74	0.76	0.77	0.79	0.81	0.82	0.84
1,101 ~ 1,200	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.82	0.83	0.85	0.86
1,201 ~ 1,300	0.73	0.74	0.76	0.77	0.79	0.81	0.82	0.84	0.86	0.87	
1,301 ~ 1,400	0.75	0.77	0.78	0.80	0.82	0.83	0.85	0.87	0.88	0.90	
1,401 ~ 1,500	0.78	0.79	0.81	0.83	0.84	0.86	0.87	0.89	0.91		

Outer Only

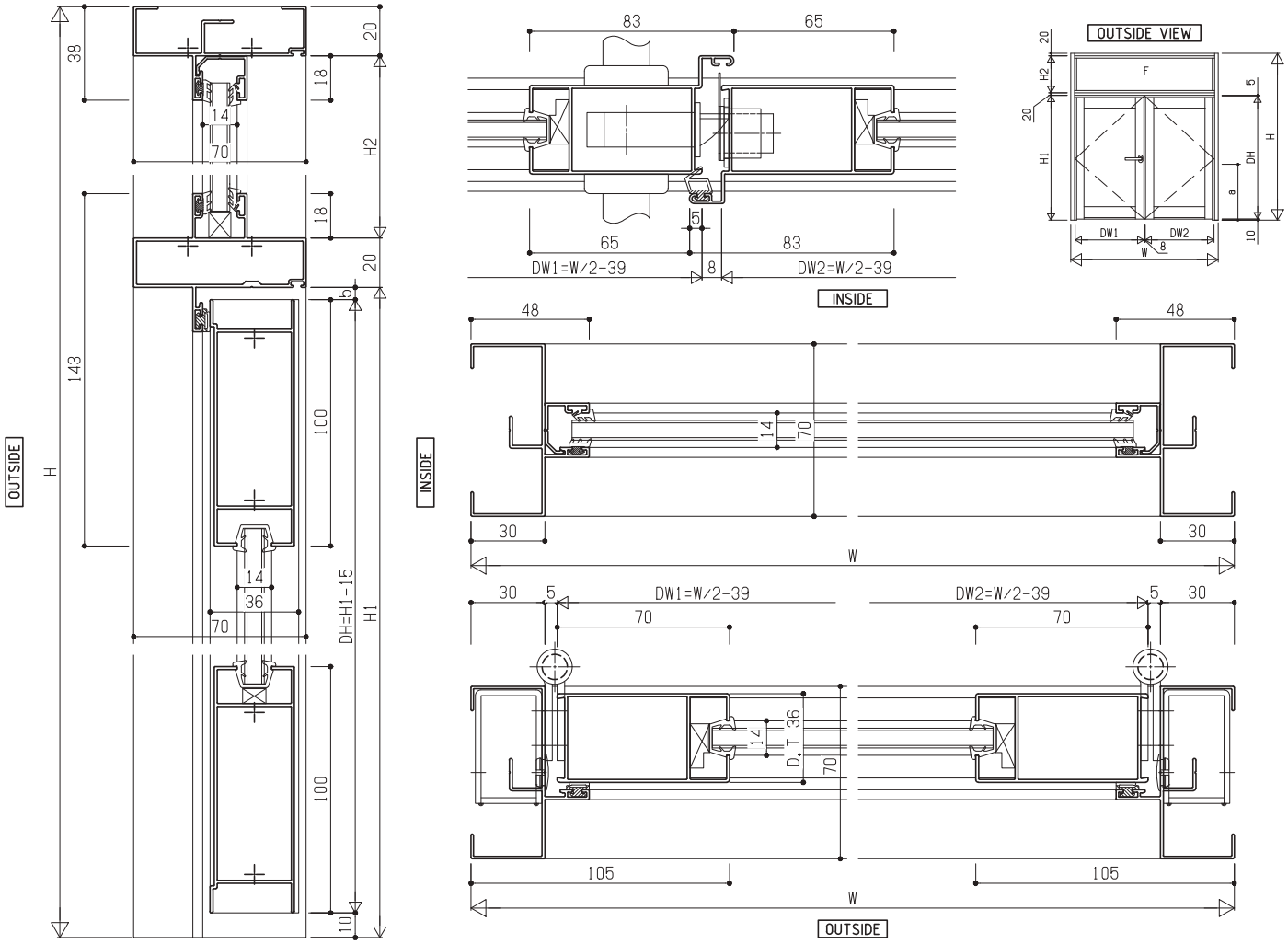
Juta Rp

H (mm) \ W (mm)	901-1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000
300	0.27	0.29	0.31	0.32	0.34	0.36	0.37	0.39	0.41	0.42	0.44
301 ~ 400	0.30	0.31	0.33	0.35	0.36	0.38	0.40	0.41	0.43	0.45	0.46
401 ~ 500	0.32	0.34	0.35	0.37	0.39	0.40	0.42	0.44	0.45	0.47	0.49
501 ~ 600	0.35	0.36	0.38	0.40	0.41	0.43	0.45	0.46	0.48	0.50	0.51
601 ~ 700	0.37	0.39	0.40	0.42	0.44	0.45	0.47	0.49	0.50	0.52	0.54
701 ~ 800	0.40	0.41	0.43	0.45	0.46	0.48	0.50	0.51	0.53	0.55	0.56
801 ~ 900	0.42	0.44	0.45	0.47	0.49	0.51	0.52	0.54	0.55	0.57	0.59
901 ~ 1,000	0.45	0.46	0.48	0.50	0.51	0.53	0.55	0.56	0.58	0.60	0.61
1,001 ~ 1,100	0.47	0.49	0.50	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.64
1,101 ~ 1,200	0.50	0.51	0.53	0.55	0.56	0.58	0.60	0.61	0.63	0.65	0.66
1,201 ~ 1,300	0.52	0.54	0.55	0.57	0.59	0.60	0.62	0.64	0.65	0.67	
1,301 ~ 1,400	0.55	0.56	0.58	0.60	0.61	0.63	0.65	0.66	0.68	0.70	
1,401 ~ 1,500	0.57	0.59	0.60	0.62	0.64	0.66	0.67	0.69	0.70		

FIX/DOUBLE DOOR (WITHOUT SILL)

SYSTEM DRAWING

INSWING

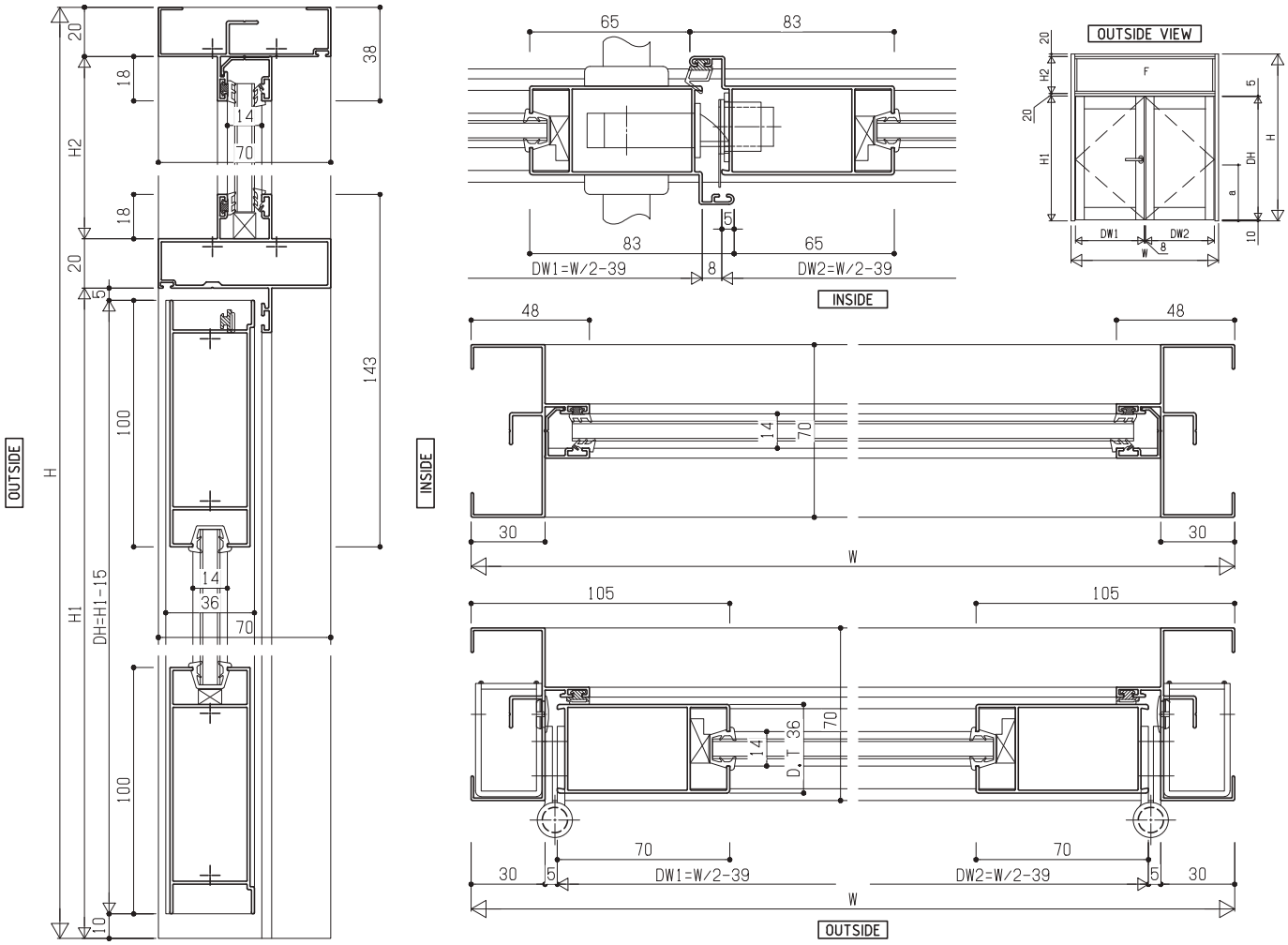


MADELA YKK AP

FIX/DOUBLE DOOR (WITHOUT SILL)

SYSTEM DRAWING

OUTSWING



DOUBLE DOOR (WITH SILL)

With Sill
With Lockset

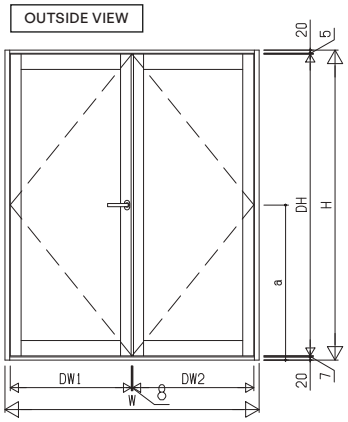
Performance

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

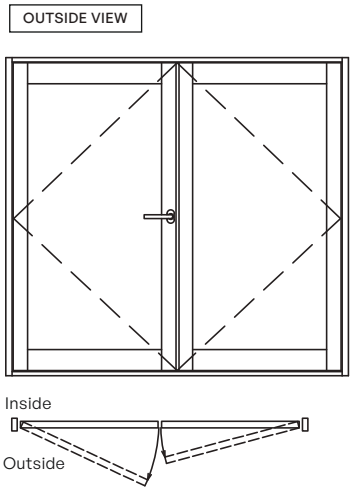


*Outswing (R)

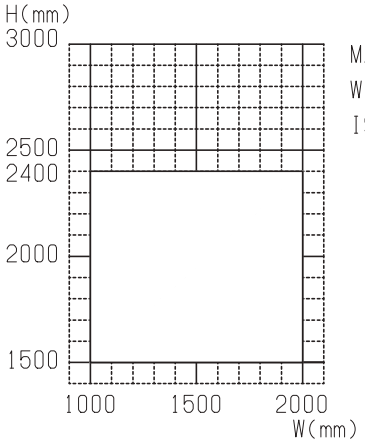
Handle Height : a = 1000

Variation

Outswing



Size Limitation



MAX. AGAINST
WIND PRESSURE
IS 600Pa

Juta Rp

DOUBLE DOOR
FRAME AND INNER PRICE

H (mm) \ W (mm)	1,000	1,001–1,100	1,101–1,200	1,201–1,300	1,301–1,400	1,401–1,500	1,501–1,600	1,601–1,700	1,701–1,800	1,801–1,900	1,901–2,000
1,500	3.70	3.75	3.81	3.86	3.92	3.98	4.03	4.09	4.15	4.20	4.26
1,501 ～ 1,600	3.78	3.84	3.89	3.95	4.00	4.06	4.11	4.17	4.23	4.28	4.34
1,601 ～ 1,700	3.86	3.92	3.97	4.03	4.08	4.14	4.19	4.25	4.31	4.36	4.42
1,701 ～ 1,800	3.94	4.00	4.05	4.11	4.17	4.22	4.28	4.33	4.39	4.44	4.50
1,801 ～ 1,900	4.02	4.08	4.14	4.19	4.25	4.30	4.36	4.41	4.47	4.52	4.58
1,901 ～ 2,000	4.11	4.16	4.22	4.27	4.33	4.38	4.44	4.50	4.55	4.61	4.66
2,001 ～ 2,100	4.19	4.24	4.30	4.35	4.41	4.47	4.52	4.58	4.63	4.69	4.74
2,101 ～ 2,200	4.27	4.33	4.38	4.44	4.49	4.55	4.60	4.66	4.71	4.77	4.83
2,201 ～ 2,300	4.35	4.41	4.46	4.52	4.57	4.63	4.68	4.74	4.80	4.85	4.91
2,301 ～ 2,400	4.43	4.49	4.54	4.60	4.66	4.71	4.77	4.82	4.88	4.93	4.99

* This price does not include glass, handle set, assembing fee, delivery fee and installation fee.

HANDLE SET PRICE

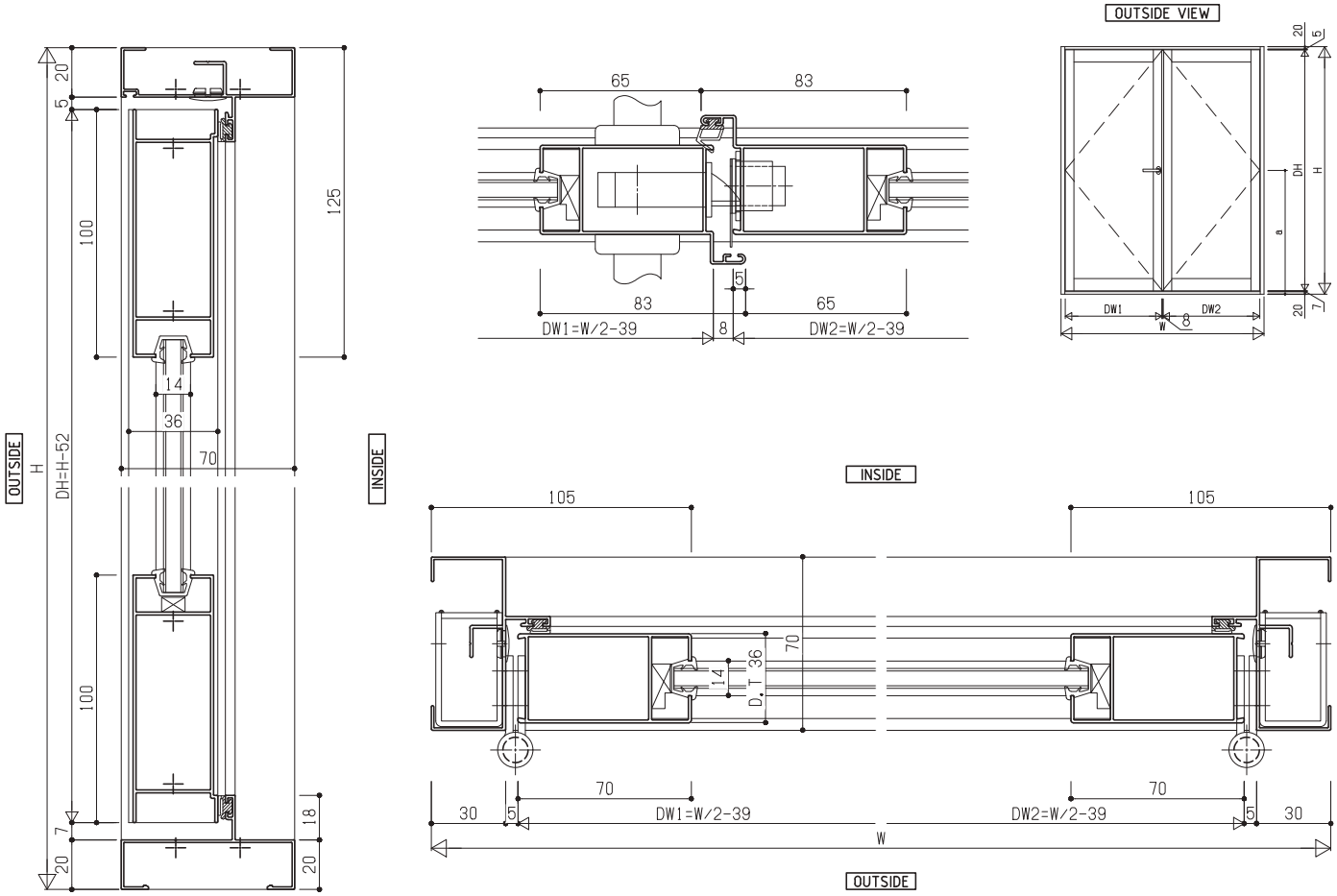
- For the price above does not include handle set.
- For the specifications with Handle set, 0.4 juta/set will be added to the door price frame and inner frame.

Handle set preview

DOUBLE DOOR (WITH SILL)

SYSTEM DRAWING

OUTSWING



MADELA YKK AP

FIX/DOUBLE DOOR (WITH SILL)

With Sill
With Lockset

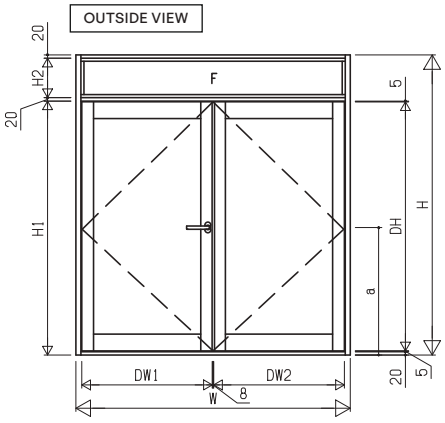
Performance

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

Glass

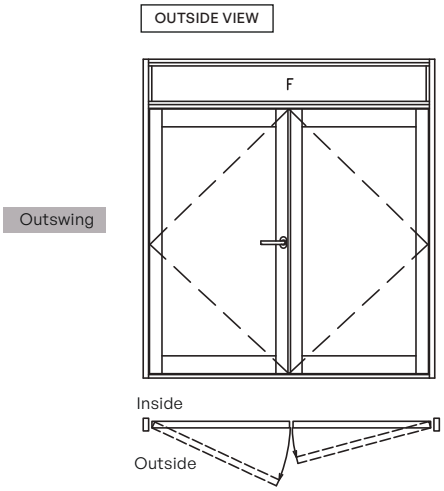
	Glass Size	Qty	Thickness
Door	(W/2-165)(H1-198)	1	5,6,8
FIX	(W-82)(H2-22)	1	5,6,8

Standard Specifications

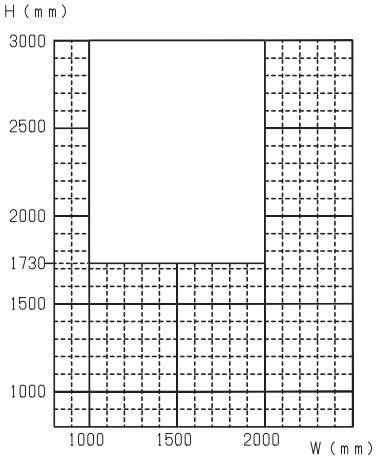


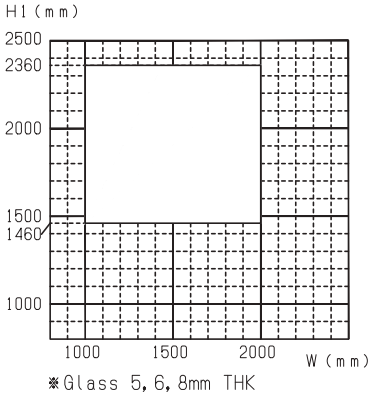
*Outswing (R)
Handle Height : a = 1000

Variation

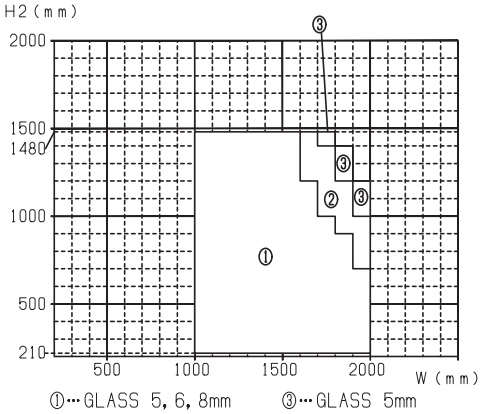


Size Limitation





※Glass 5, 6, 8mm THK



①…GLASS 5, 6, 8mm ③…GLASS 5mm
②…GLASS 5, 6mm

FIX/DOUBLE DOOR (WITH SILL)

PRICE LIST

1 See the price list bellow for the upper FIX

2 See page **127** for the lower Door

Price : 1 + 2

FIX (Transom Price Included)

Outer + Inner

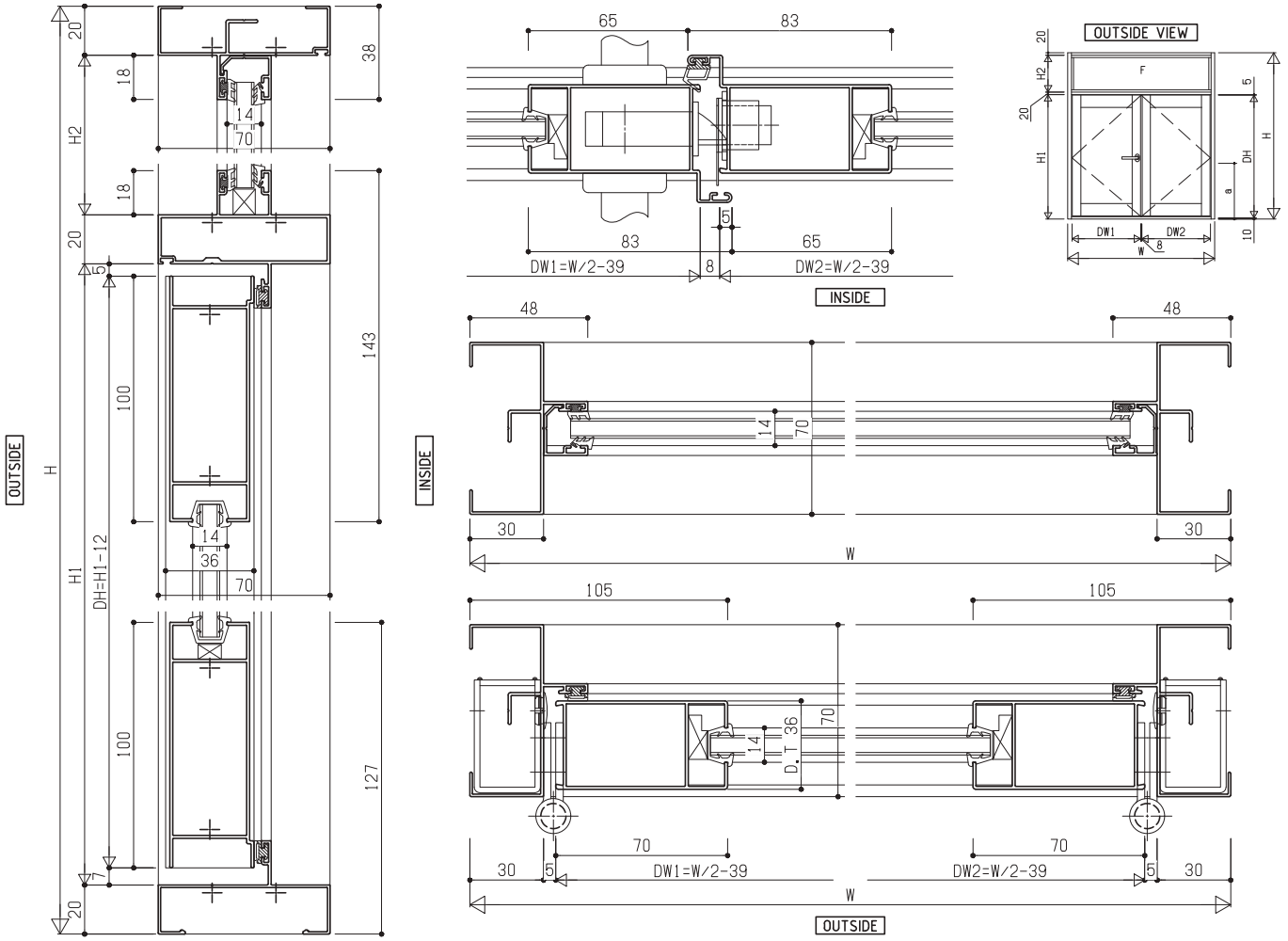
Juta Rp

W (mm) / H (mm)	1,000	1,001-1,100	1,101-1,200	1,201-1,300	1,301-1,400	1,401-1,500	1,501-1,600	1,601-1,700	1,701-1,800	1,801-1,900	1,901-2,000
300	0.48	0.49	0.51	0.53	0.54	0.56	0.57	0.59	0.61	0.62	0.64
301 ~ 400	0.50	0.52	0.53	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.66
401 ~ 500	0.53	0.54	0.56	0.58	0.59	0.61	0.62	0.64	0.66	0.67	0.69
501 ~ 600	0.55	0.57	0.58	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.71
601 ~ 700	0.58	0.59	0.61	0.62	0.64	0.66	0.67	0.69	0.71	0.72	0.74
701 ~ 800	0.60	0.62	0.63	0.65	0.67	0.68	0.70	0.72	0.73	0.75	0.76
801 ~ 900	0.63	0.64	0.66	0.68	0.69	0.71	0.72	0.74	0.76	0.77	0.79
901 ~ 1,000	0.65	0.67	0.68	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.81
1,001 ~ 1,100	0.68	0.69	0.71	0.73	0.74	0.76	0.77	0.79	0.81	0.82	0.84
1,101 ~ 1,200	0.70	0.72	0.73	0.75	0.77	0.78	0.80	0.82	0.83	0.85	0.86
1,201 ~ 1,300	0.73	0.74	0.76	0.77	0.79	0.81	0.82	0.84	0.86	0.87	
1,301 ~ 1,400	0.75	0.77	0.78	0.80	0.82	0.83	0.85	0.87	0.88	0.90	
1,401 ~ 1,500	0.78	0.79	0.81	0.83	0.84	0.86	0.87	0.89	0.91		

FIX/DOUBLE DOOR (WITH SILL)

SYSTEM DRAWING

OUTSWING



MADELA

(STANDARD TYPE)

Ensure optimal performance and appearance by selecting Mullion options by Condition Pattern

Condition Pattern

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

(MULLION TYPE)

M : Mullion

C : Coupling Mullion

T : T-Mullion

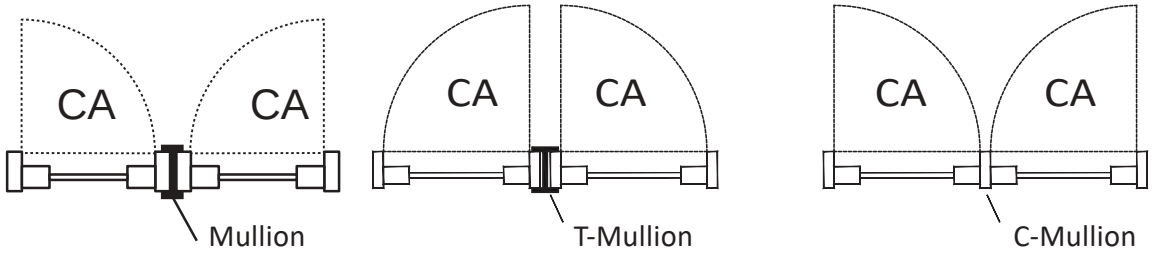
HT : Hinge at T-Mullion

CONTINUOUS WINDOWS CONDITION

*1 CASE USING MADELA MULLION

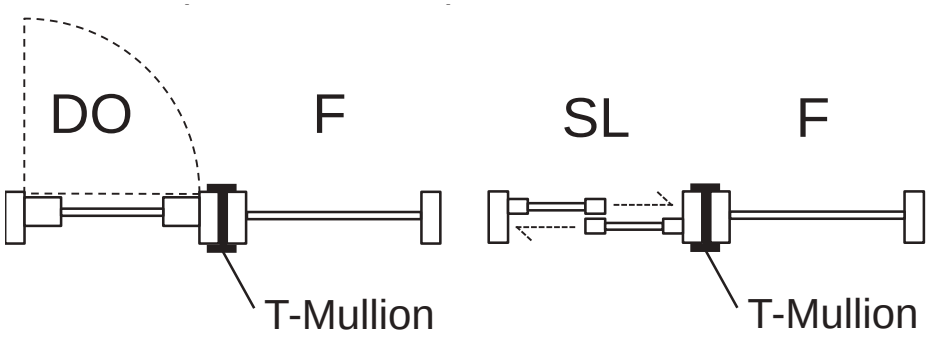
Standard Coupling Mullion can be used at MADELA FIX/TH/CA.

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



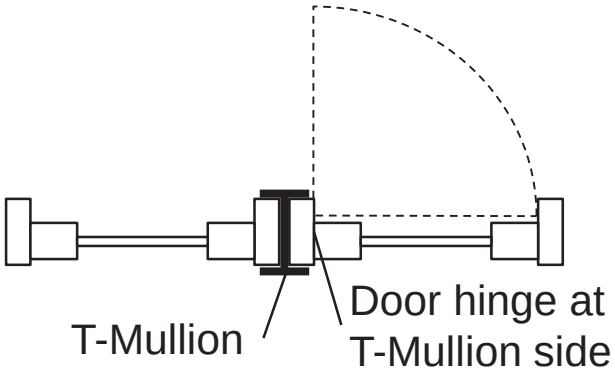
*2 CASE USING MADELA MULLION

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.



CONTINUOUS WINDOWS
MULLION

*Sliding cannot be combined as a continuous window

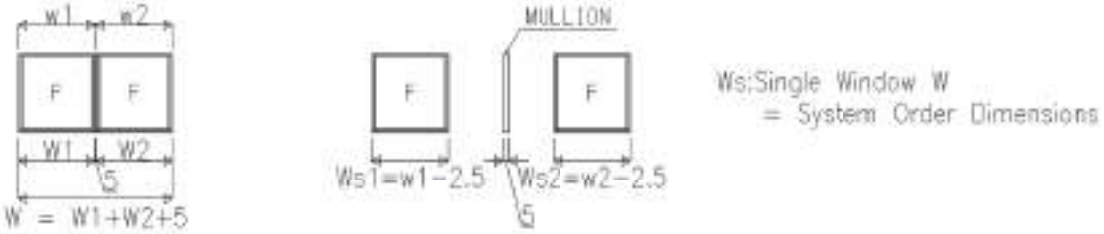
Performance

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

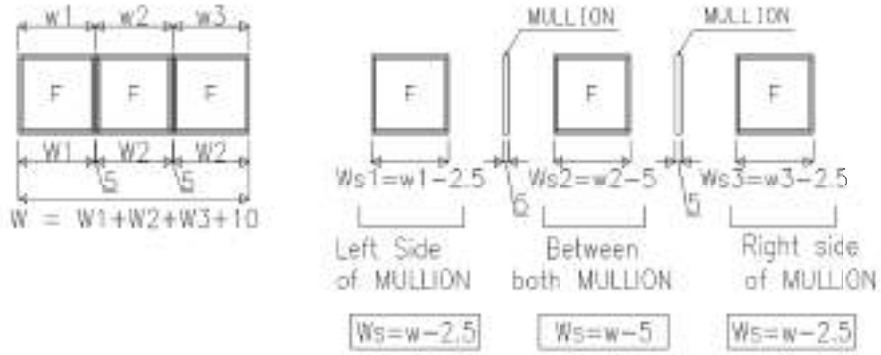
PERFORMANCE OF CONTINUOUS WINDOWS

System Order Dimensions

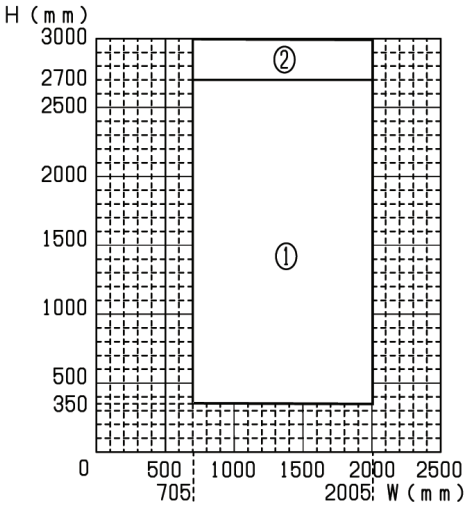
2 Module



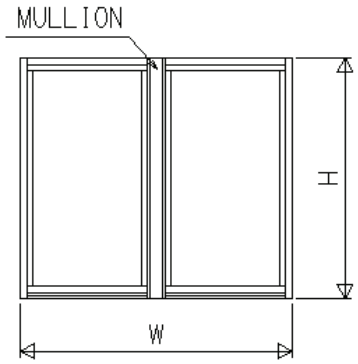
3 Module



Size Limitation



1	Standard
2	High Strength



MULLION
PRICE LIST

Juta Rp

H（mm）	
350 ～ 400	0.05
401 ～ 500	0.06
501 ～ 600	0.06
601 ～ 700	0.07
701 ～ 800	0.08
801 ～ 900	0.09
901 ～ 1,000	0.10
1,001 ～ 1,100	0.10
1,101 ～ 1,200	0.11
1,201 ～ 1,300	0.12
1,301 ～ 1,400	0.13
1,401 ～ 1,500	0.14
1,501 ～ 1,600	0.14
1,601 ～ 1,700	0.15
1,701 ～ 1,800	0.16
1,801 ～ 1,900	0.17
1,901 ～ 2,000	0.18
2,001 ～ 2,100	0.18
2,101 ～ 2,200	0.19
2,201 ～ 2,300	0.20
2,301 ～ 2,400	0.21
2,401 ～ 2,500	0.22
2,501 ～ 2,600	0.22
2,601 ～ 2,700	0.23
2,701 ～ 2,800	0.55
2,801 ～ 2,900	0.58
2,901 ～ 3,000	0.59

Standard type

High Strength type

*This price is not included glass, assembling fee,
delivery fee and installation fee.

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

CONTINUOUS WINDOWS
T-MULLION

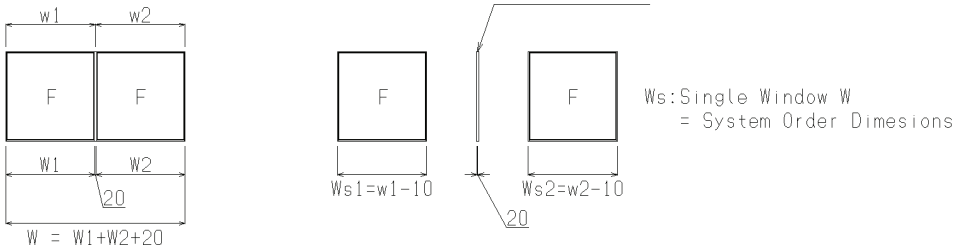
Performance

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

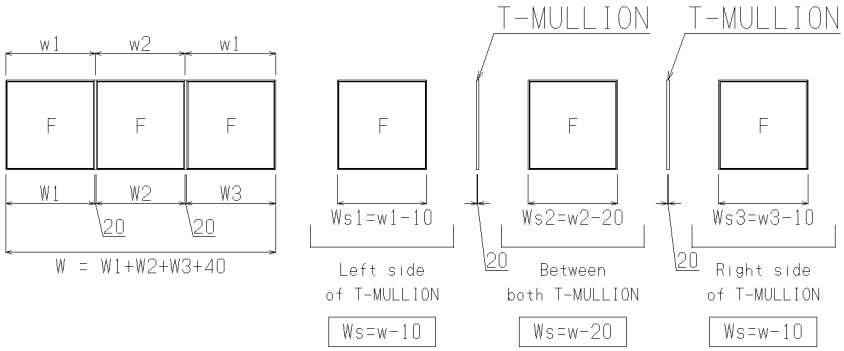
PERFORMANCE OF CONTINUOUS WINDOWS

System Order Dimensions

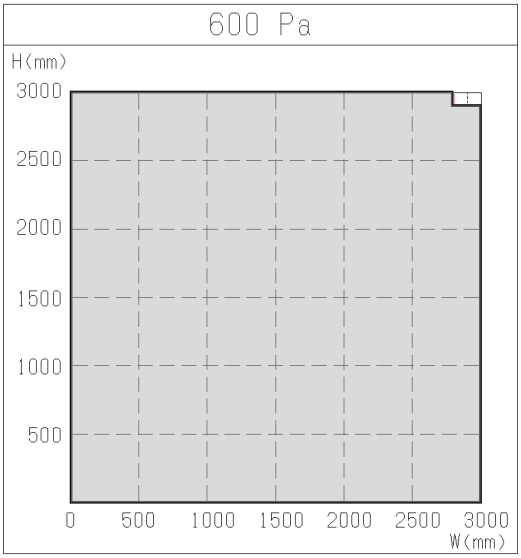
2 Module

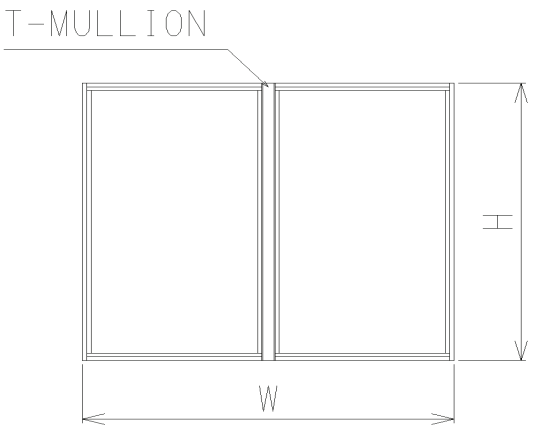


3 Module



Size Limitation





MULLION, T-MULLION
PRICE LIST

Juta Rp

H（mm）	
350 ～ 400	0.23
401 ～ 500	0.25
501 ～ 600	0.27
601 ～ 700	0.29
701 ～ 800	0.32
801 ～ 900	0.34
901 ～ 1,000	0.36
1,001 ～ 1,100	0.38
1,101 ～ 1,200	0.41
1,201 ～ 1,300	0.43
1,301 ～ 1,400	0.45
1,401 ～ 1,500	0.47
1,501 ～ 1,600	0.50
1,601 ～ 1,700	0.52
1,701 ～ 1,800	0.54
1,801 ～ 1,900	0.56
1,901 ～ 2,000	0.59
2,001 ～ 2,100	0.61
2,101 ～ 2,200	0.63
2,201 ～ 2,300	0.66
2,301 ～ 2,400	0.68
2,401 ～ 2,500	0.70
2,501 ～ 2,600	0.73
2,601 ～ 2,700	0.75
2,701 ～ 2,800	0.77
2,801 ～ 2,900	0.80
2,901 ～ 3,000	0.82

*This price is not included glass, assembling fee, delivery fee and installation fee.

*For the specifications with Hinge for Reinforlement, 0.08 juta/set will be added to price space above.

CONTINUOUS WINDOWS
COUPLING MULLION

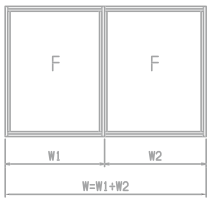
Performance

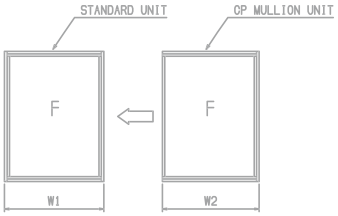
Structural (Wind Load)	600 Pa
Water Tightness	100 Pa
Sound Insulation	-25 dB

PERFORMANCE OF CONTINUOUS WINDOWS

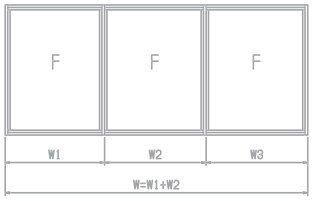
System Order Dimensions

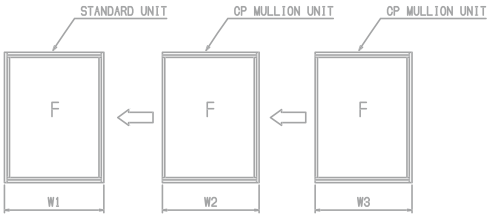
2 Module



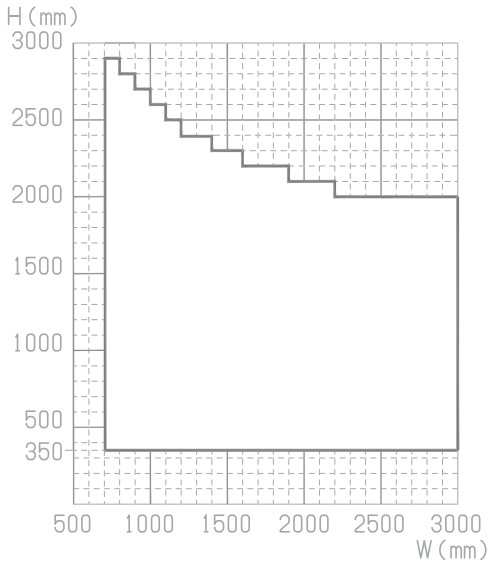


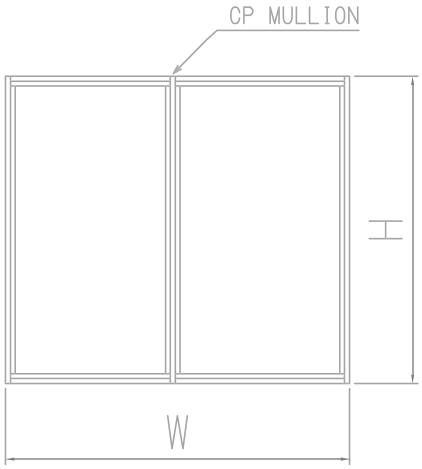
3 Module





Size Limitation





COUPLING MULLION
PRICE LIST

H (mm)			Juta Rp
350	~	400	-0.013
401	~	500	-0.016
501	~	600	-0.020
601	~	700	-0.024
701	~	800	-0.028
801	~	900	-0.032
901	~	1,000	-0.036
1,001	~	1,100	-0.040
1,101	~	1,200	-0.044
1,201	~	1,300	-0.047
1,301	~	1,400	-0.051
1,401	~	1,500	-0.055
1,501	~	1,600	-0.059
1,601	~	1,700	-0.063
1,701	~	1,800	-0.067
1,801	~	1,900	-0.071
1,901	~	2,000	-0.075
2,001	~	2,100	-0.079
2,101	~	2,200	-0.083
2,201	~	2,300	-0.087
2,301	~	2,400	-0.091
2,401	~	2,500	-0.096
2,501	~	2,600	-0.101
2,601	~	2,700	-0.106
2,701	~	2,800	-0.111
2,801	~	2,900	-0.117

Price : TYPE 1 - COUPLING MULLION UNIT

*The prices above represent the deducted amount from standard windows when configured as continuous units with a coupling mullion.

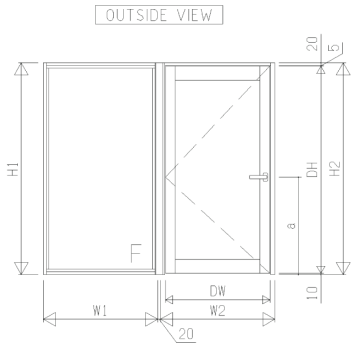
*Please check the price on the MADELA online system.

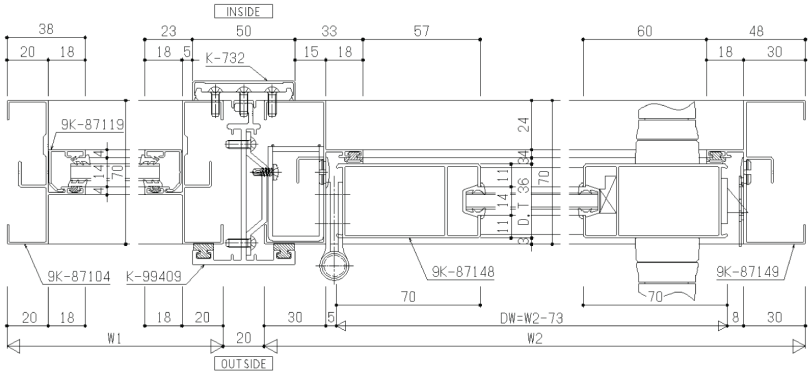
MULLION, T-MULLION

REFERENCE COMBINATION DRAWING

MADELA FIX + MADELA DOOR

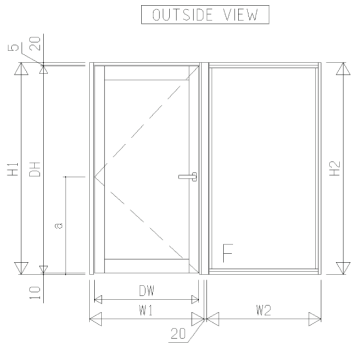
HT (Hinge at T-Mullion)

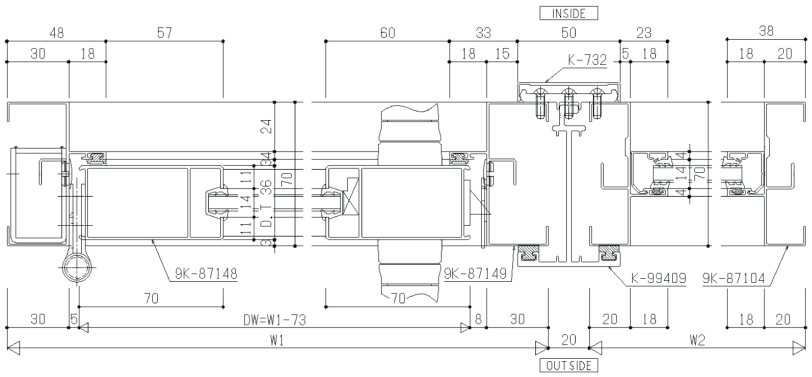




MADELA DOOR + MADELA FIX

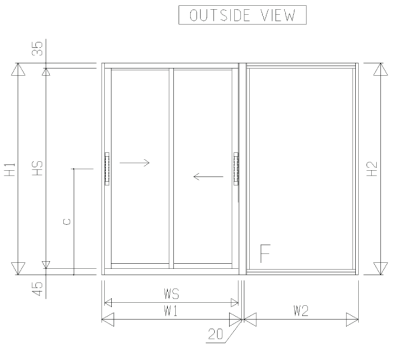
T (T-Mullion)

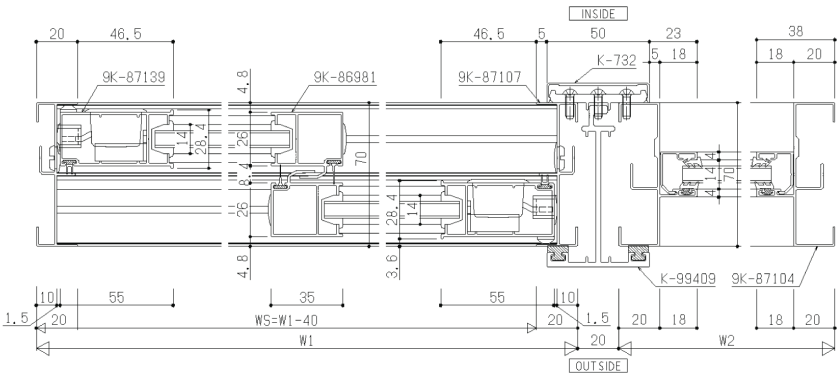




MADELA SL + MADELA FIX

T (T-Mullion)



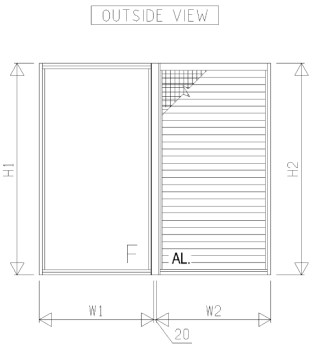


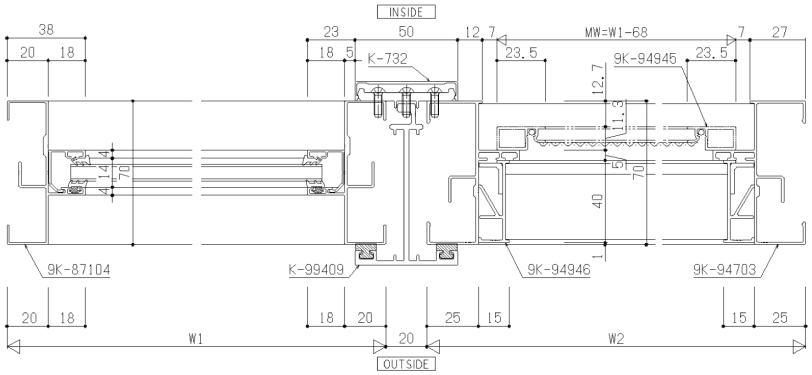
MULLION, T-MULLION

REFERENCE COMBINATION DRAWING

MADELA FIX + OTHER SERIES (NEXSTA LOUVER)

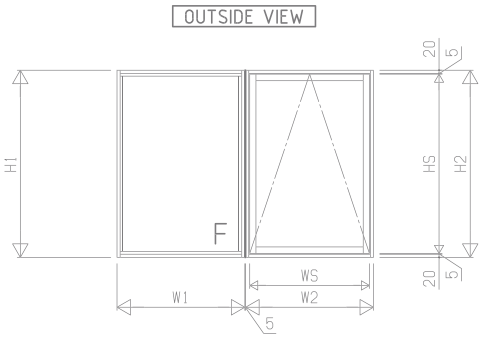
T (T-Mullion)

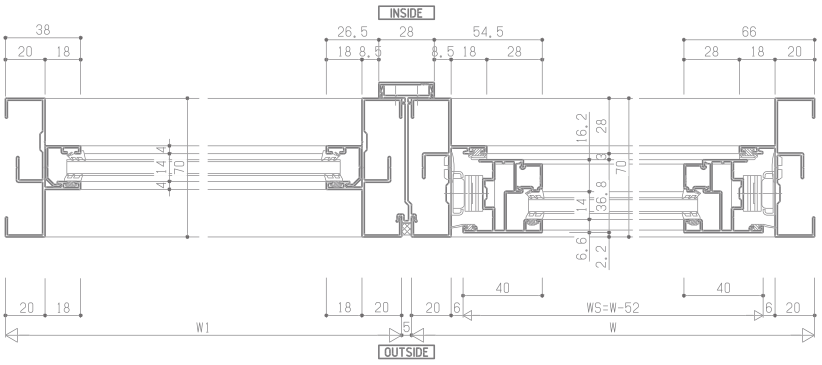




MADELA FIX + MADELA TH

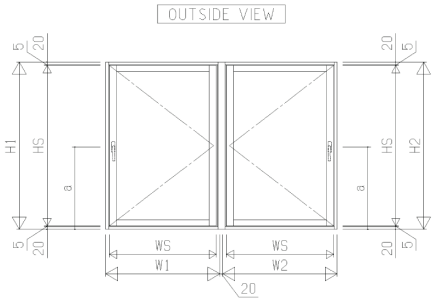
M(Mullion)

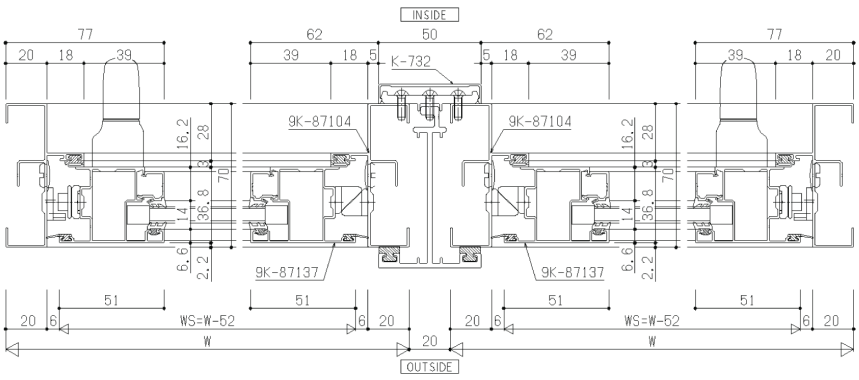




MADELA CA + MADELA CA

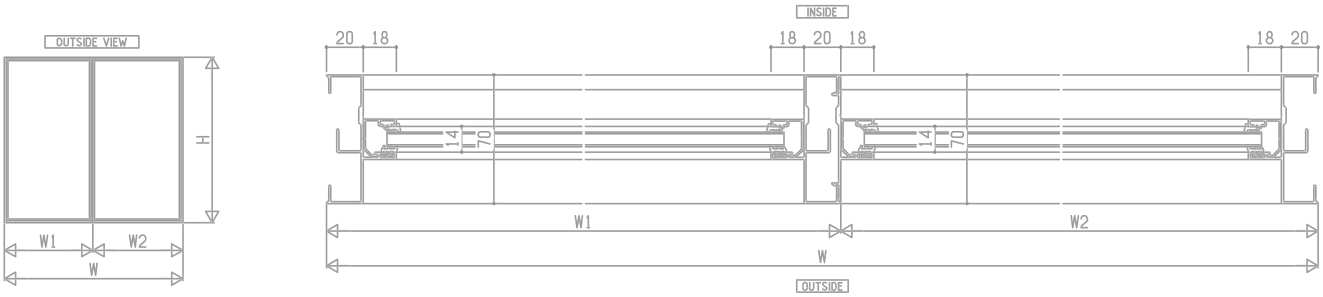
T (T-Mullion)



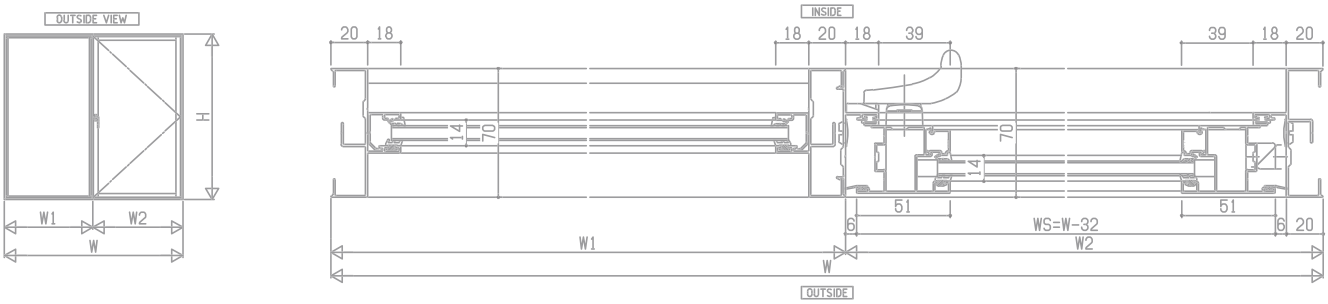


COUPLING MULLION
REFERENCE COMBINATION DRAWING

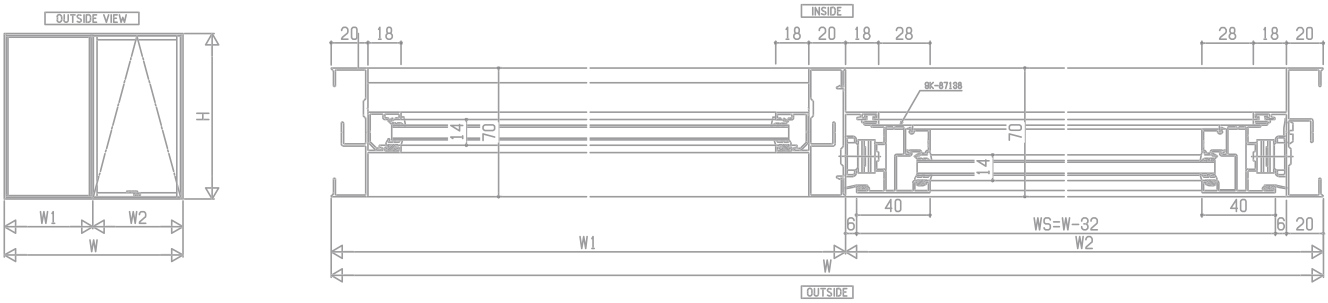
MADELA FIX + MADELA FIX
Coupling Mullion



MADELA FIX + MADELA CASEMENT
Coupling Mullion

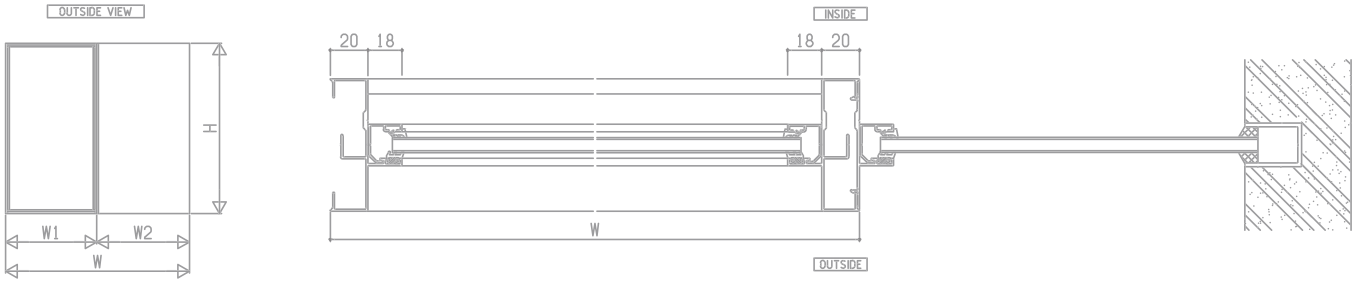


MADELA FIX + MADELA TOP HUNG
Coupling Mullion

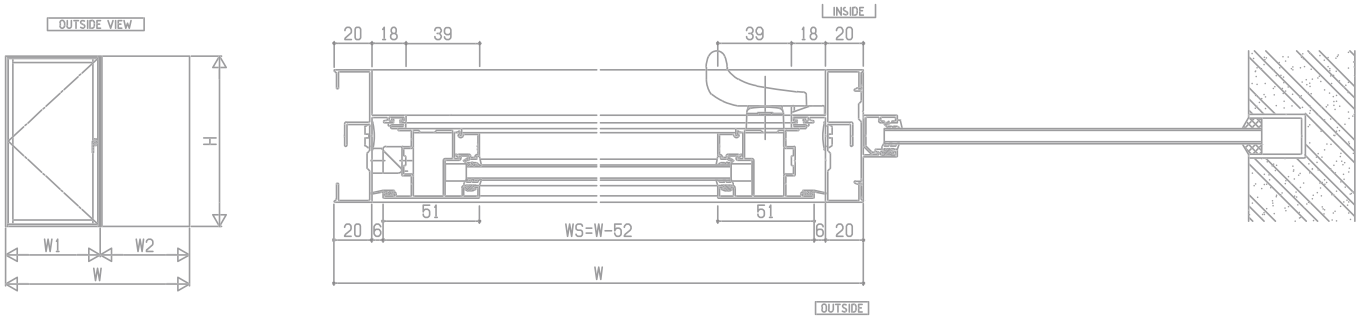


COUPLING MULLION
REFERENCE COMBINATION DRAWING

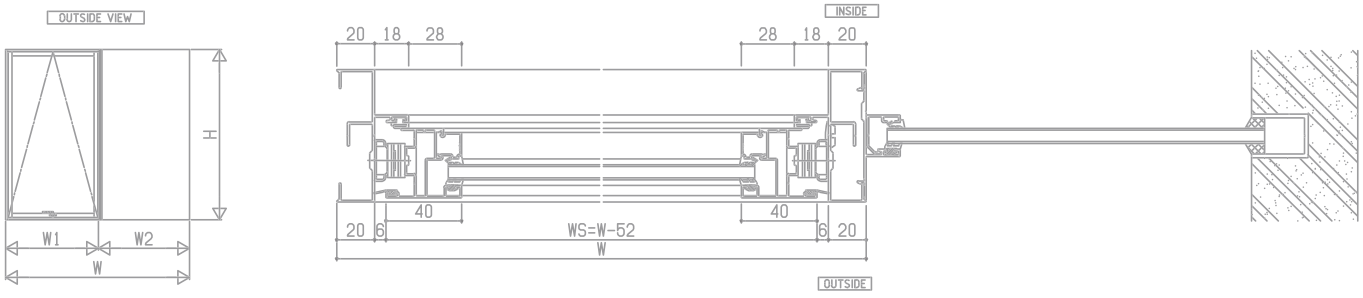
MADELA FIX + JOINT CAP
Coupling Mullion



MADELA CASEMENT + JOINT CAP
Coupling Mullion



MADELA TOP HUNG + JOINT CAP
Coupling 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

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

YKK AP Vietnam Company Limited
Lot 5.2, 5 th Leman Luxury Tower
117 Nguyen Dinh Chieu Street
Vo Thi Sau ward, District 3
Ho Chi Minh City, Vietnam
Tel: +84 8 3822 8900

YKK AP (THAILAND) CO., LTD.
Wave Place Building, 13th Floor No. 55
Wireless Road, Lumpini, Pathumwan
Bangkok 10330, Thailand
Tel: +66 2 655 6334
Fax: +66 2 655 6399

www.ykkap.co.id
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