

➤ **PRODUCT TRAINING – WE 70**

ENGINEERING & TECHNICAL SERVICES
LIXIL WINDOW SYSTEMS

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INTRODUCTION

WE 70 – is the series for low rise with following specifications:



Frame / Cill Depth	72 mm - for Casement & 2 Track Slider 104 mm – for 3 Track Slider
Frame Height	35 mm – for Casements & Sliders
Glass Thickness	5, 6, 8 mm
Wind Pressure	800 Pa
Water Tightness	150 Pa
Air Tightness	8 m ³ / h·m ²
Noise Insulation	25 dB

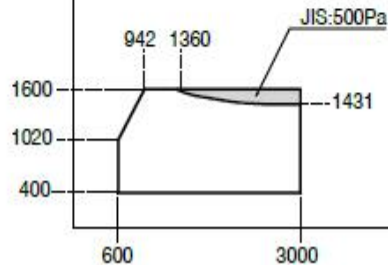
Built for the mass market and priced within everyone's reach.

WINDOWS

Sliding Window (2 panels on 2 tracks)



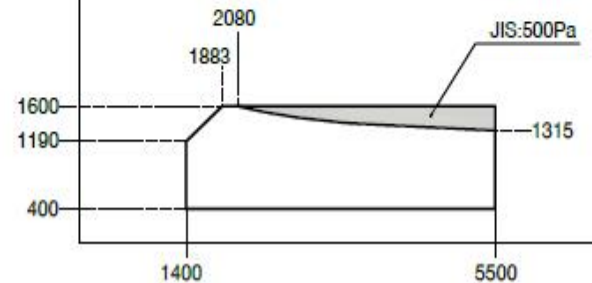
- Insect screen available (internal and external)
- Single sliding available (L/R)



Sliding Window (4 panels on 2 tracks)



- Insect screen available (internal and external)

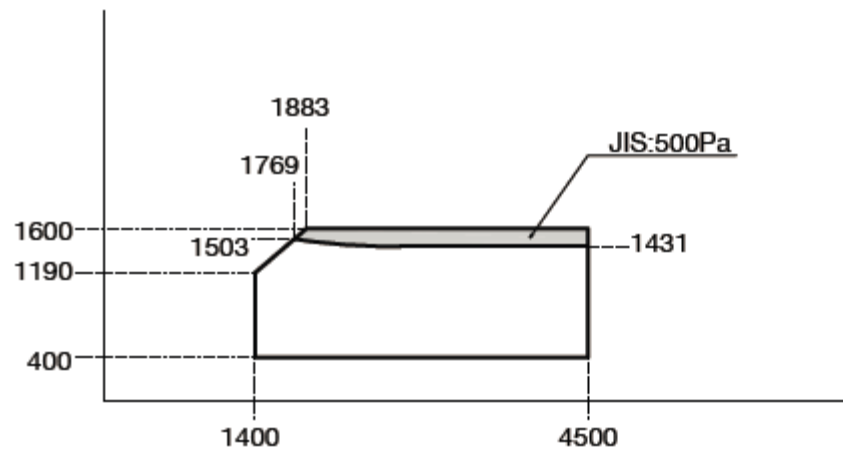


WINDOWS

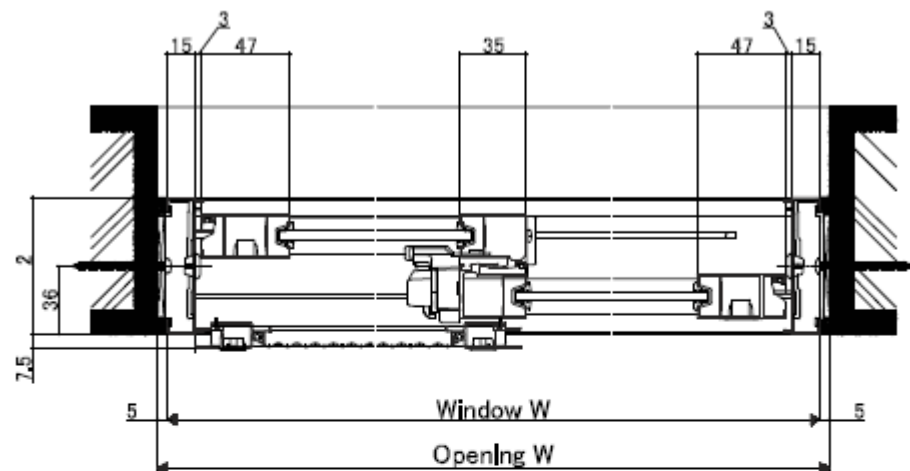
Sliding Window (3 panels on 2 tracks)



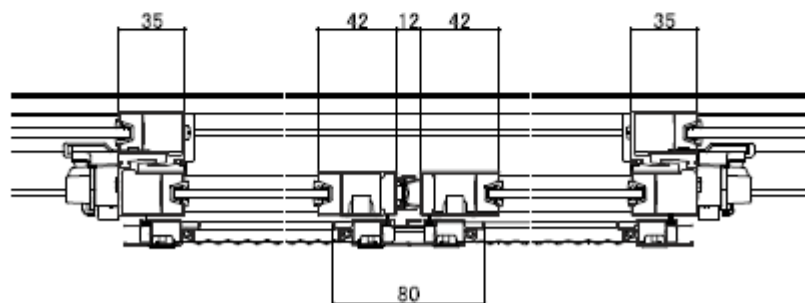
- Insect screen available (internal and external)



WINDOWS

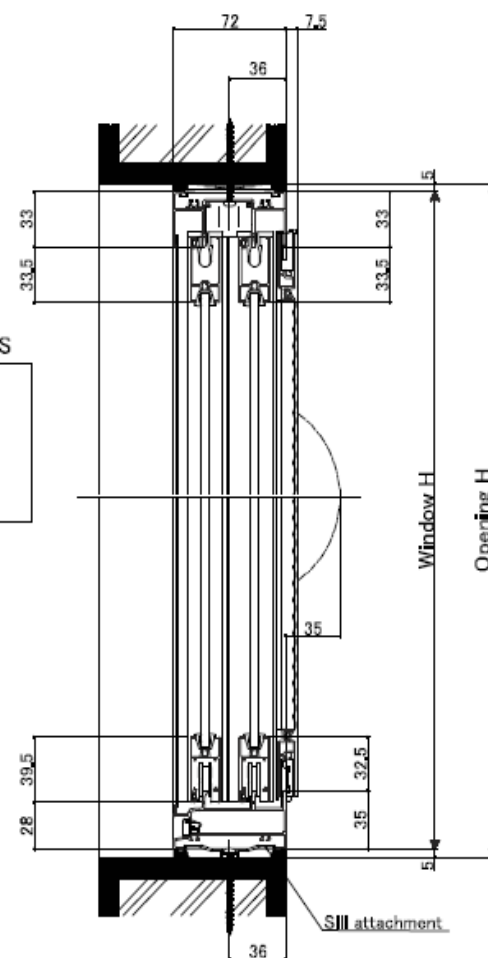
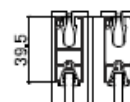


<Horizontal section: 2 panels sliding window>



<Horizontal section: 4 panels sliding window>

In case of 3 panel SFS



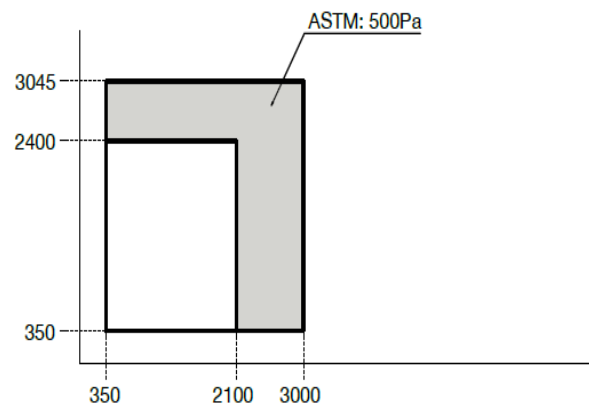
<Vertical section: 2, 4 and SFS 3 panels sliding window>

WINDOWS

Fixed Window



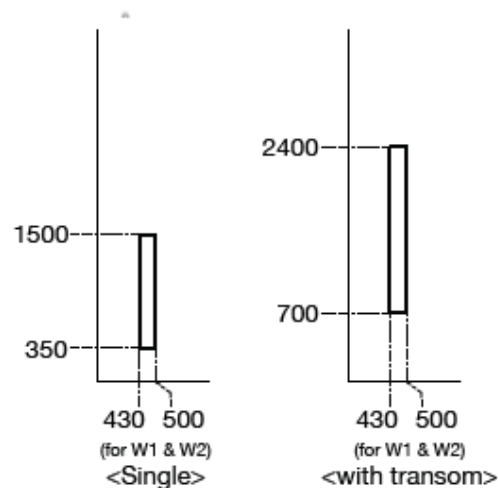
- Up to 4 fixed windows with unitized mullion
- Wind load performance varies by glass thickness
Please consult with our technician



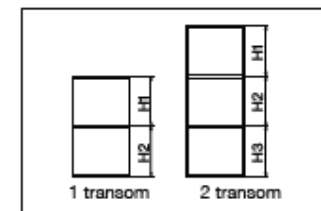
Corner Fixed Window



- Both In/outward corner available
- Middle bar (optional)

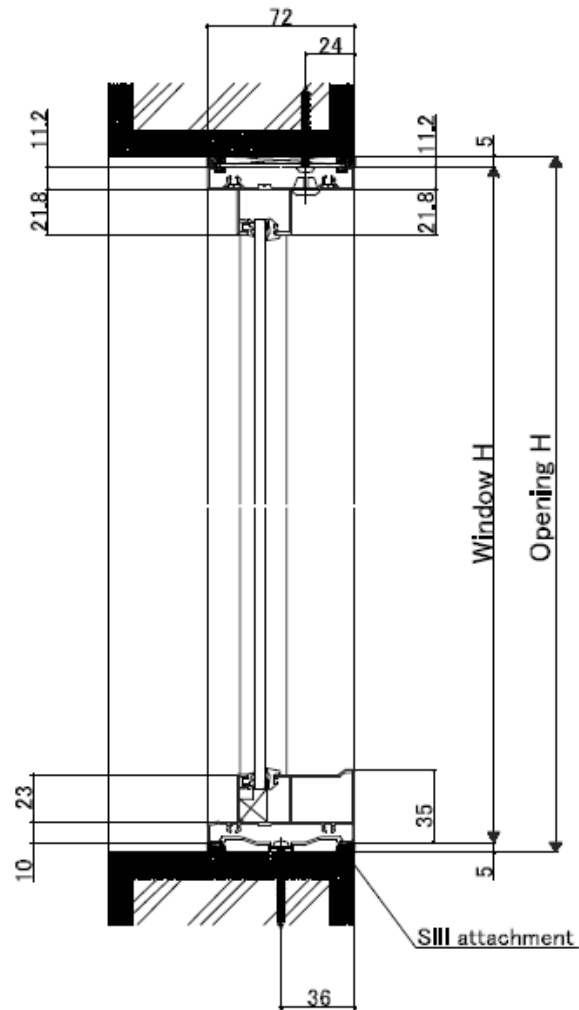


Inside type	Outside type

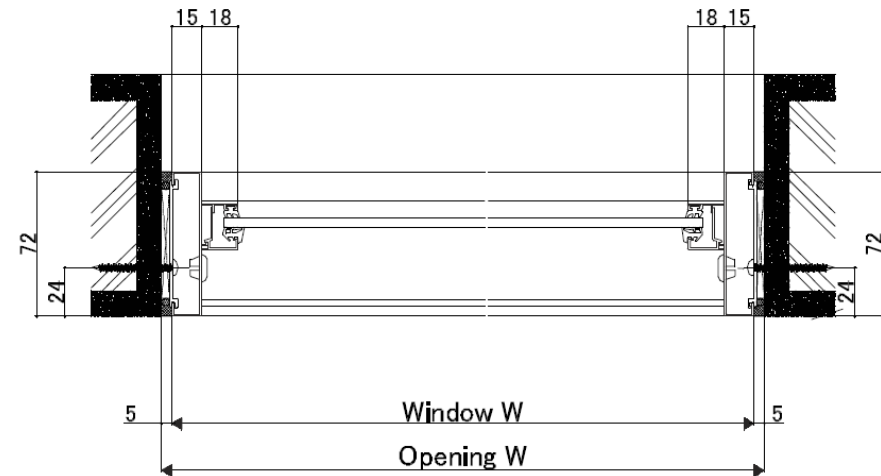


(1) 1 transom : H1 Max = 1000 mm.
 (2) 2 transom H1 + H2 : max = 1000 mm.

WINDOWS

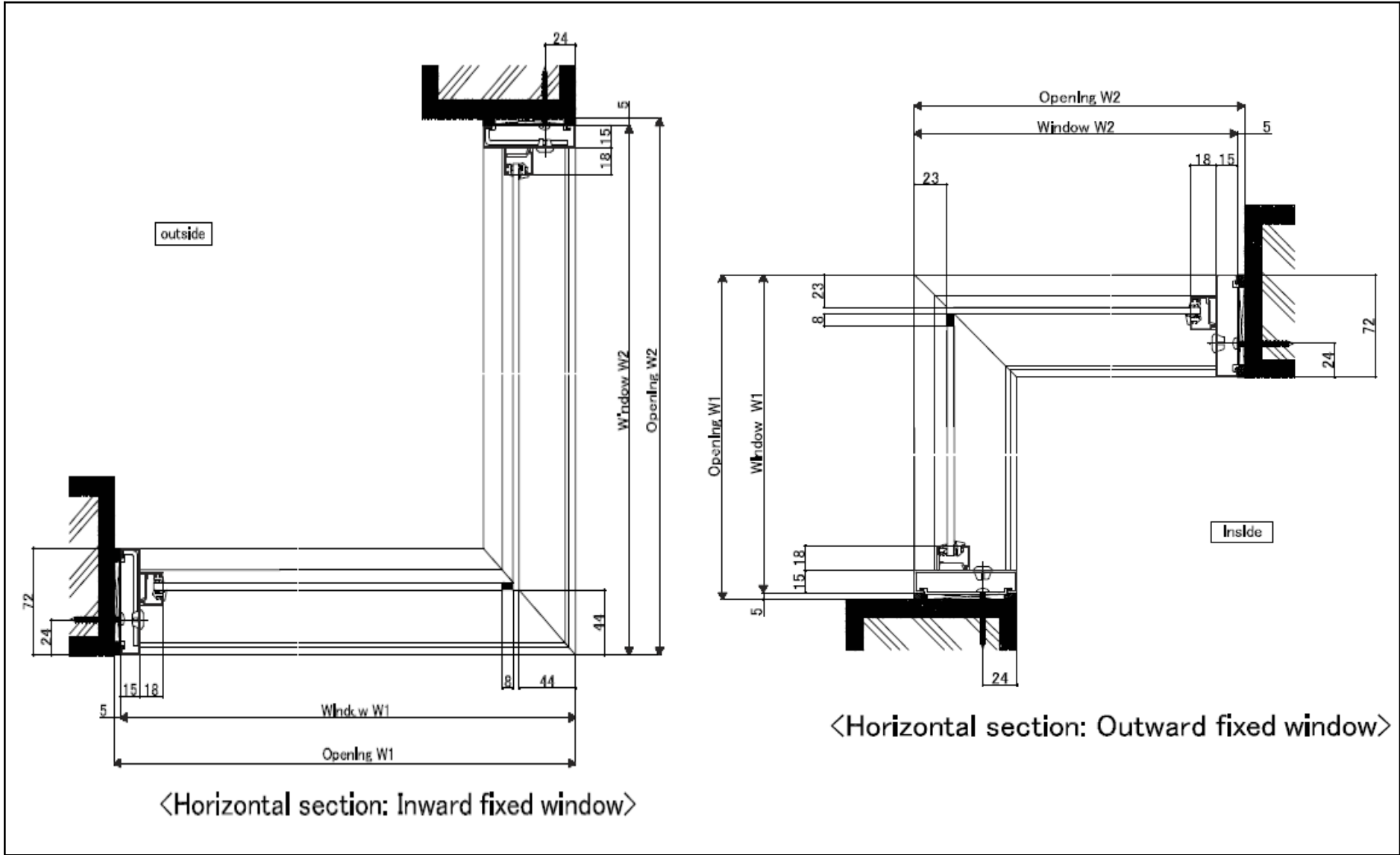


<Vertical section: Single and corner fixed window>



<Horizontal section: Single fixed window>

WINDOWS

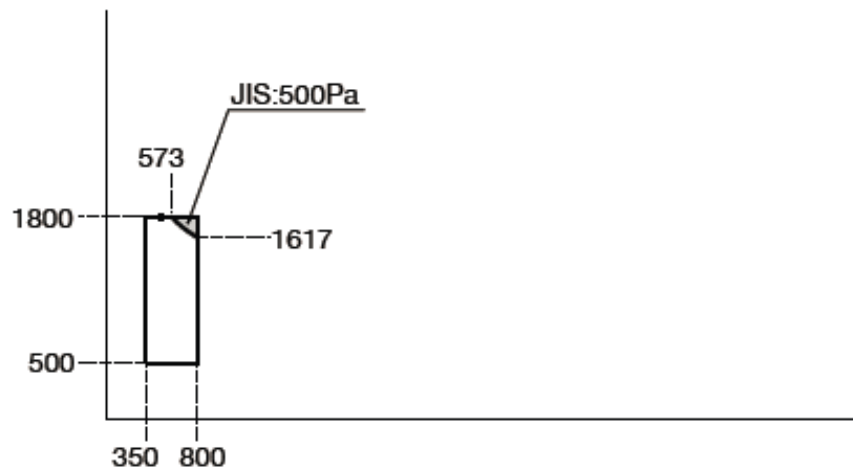


WINDOWS

Casement Window



- L/R available
- Insect screen available

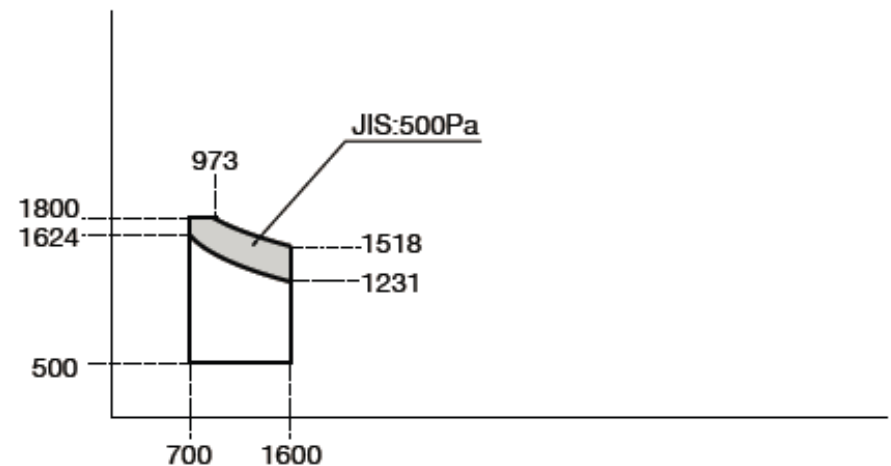


Double Casement Window

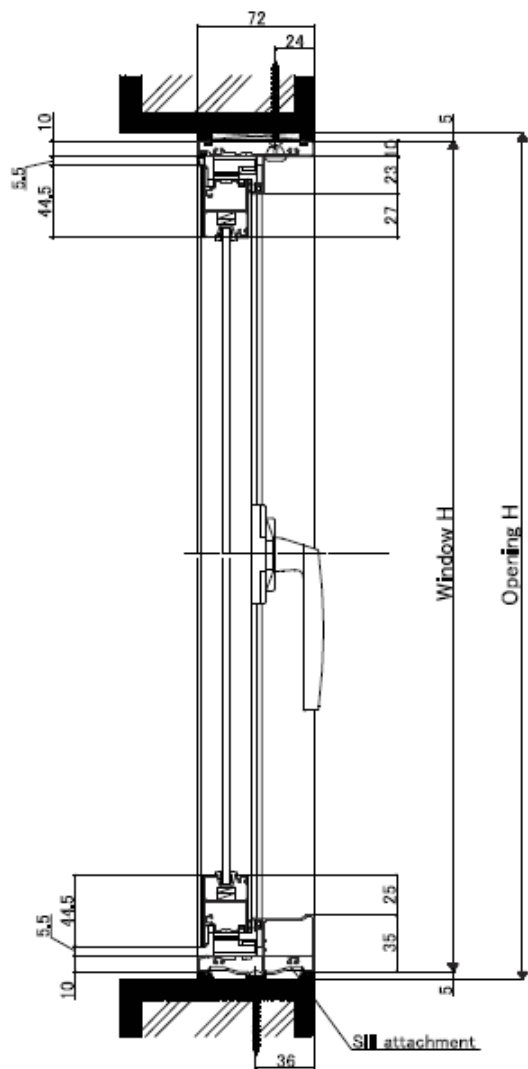


- Insect Screen available

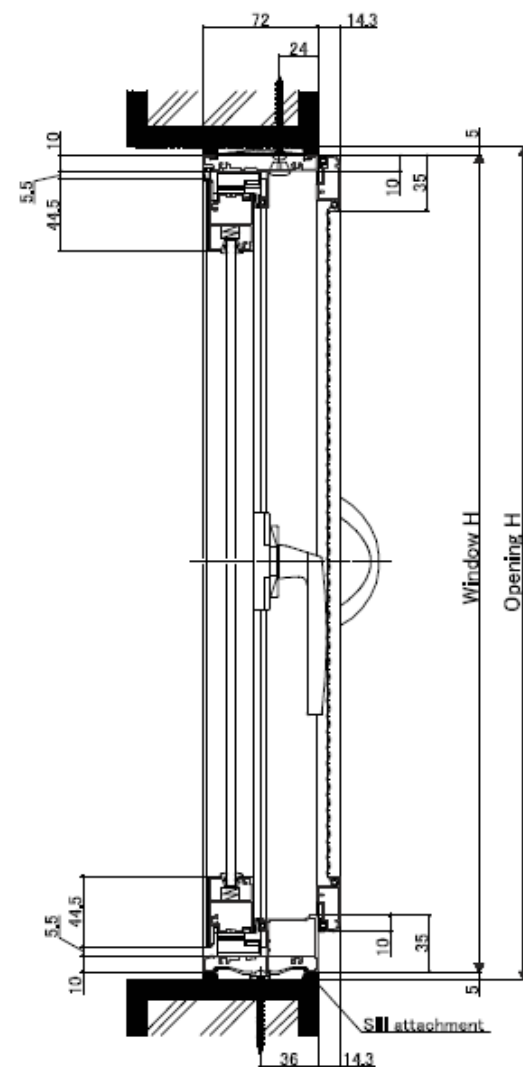
Only in WE 70
& P7



WINDOWS

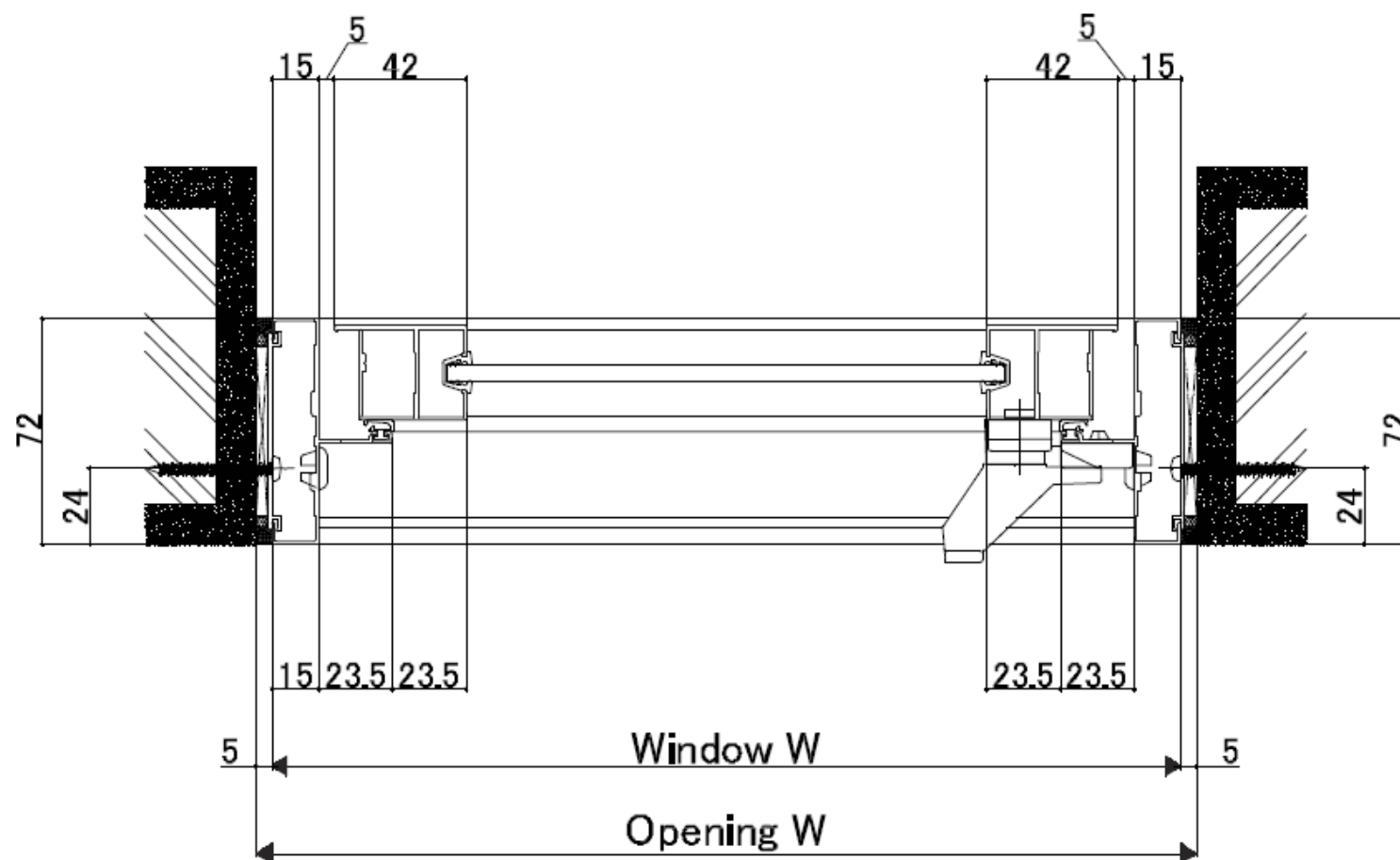


<Vertical section: Casement window>



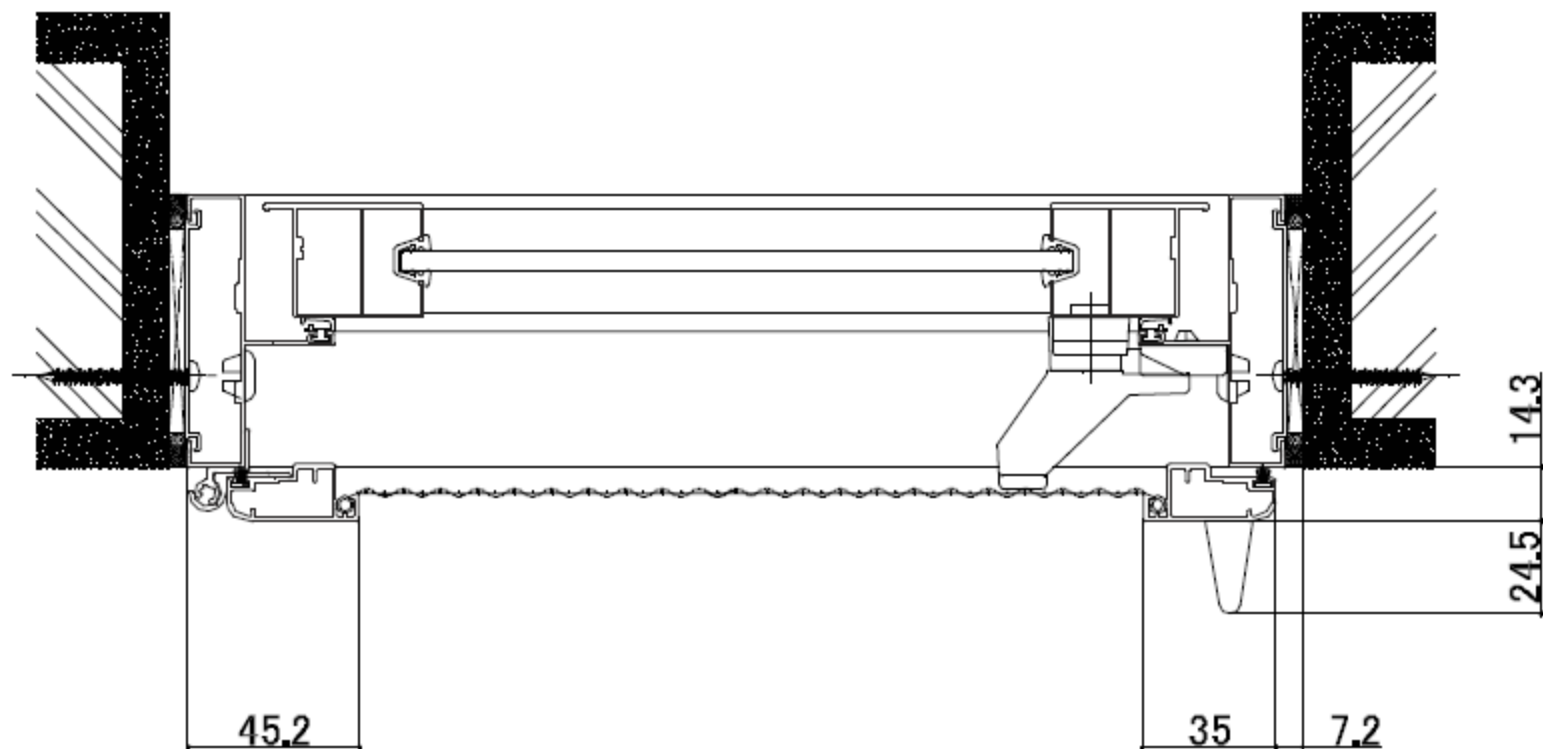
<Vertical section: Casement with screen>

WINDOWS



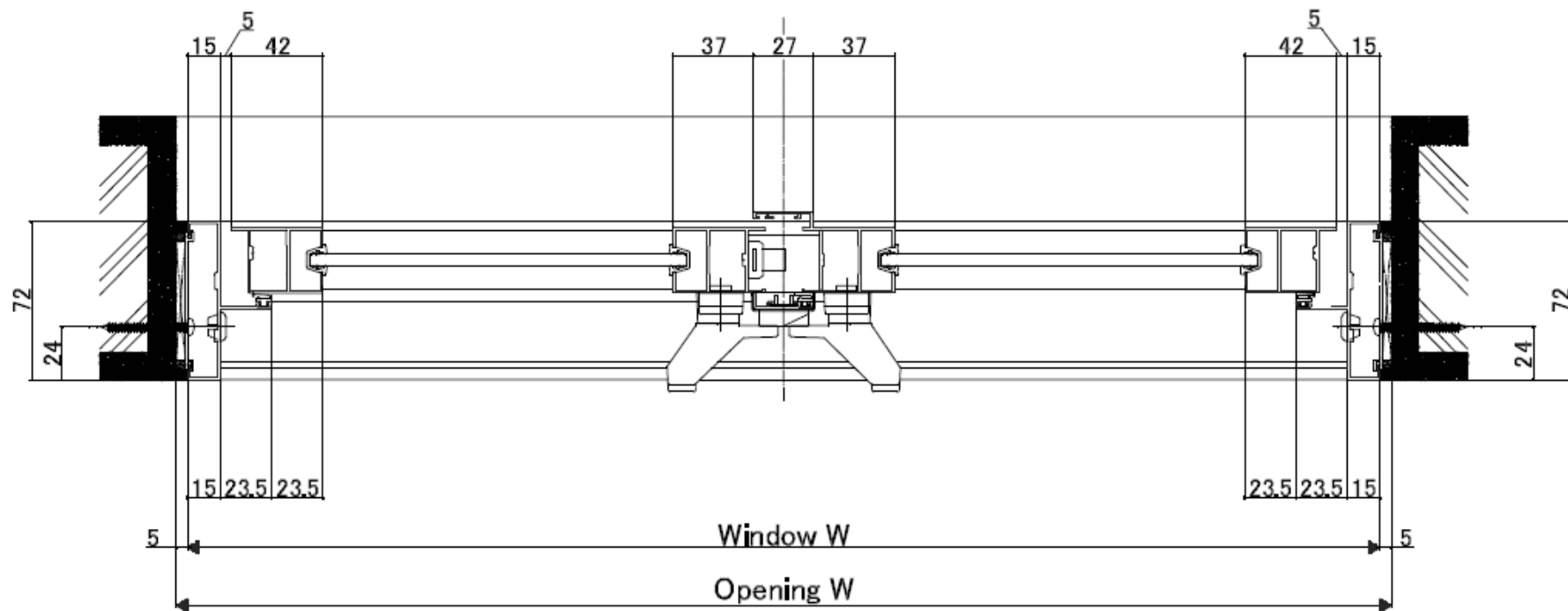
<Horizontal section: Casement window>

WINDOWS



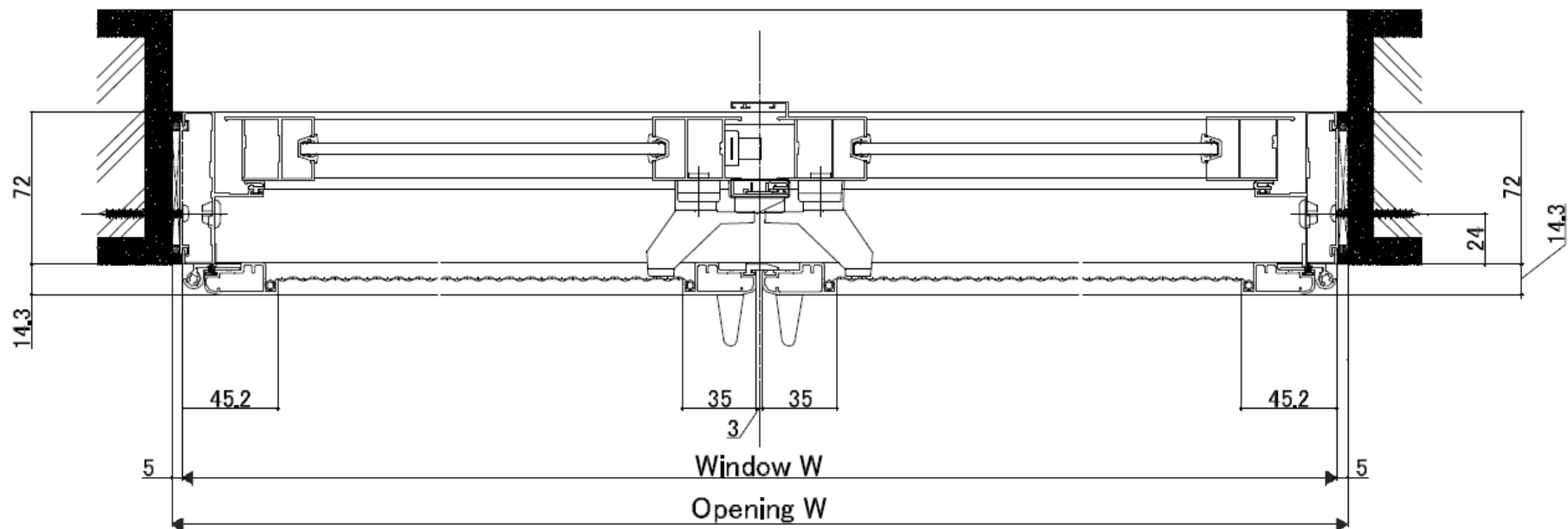
〈Horizontal section: Casement with screen〉

WINDOWS



<Horizontal section: Double casement window>

WINDOWS



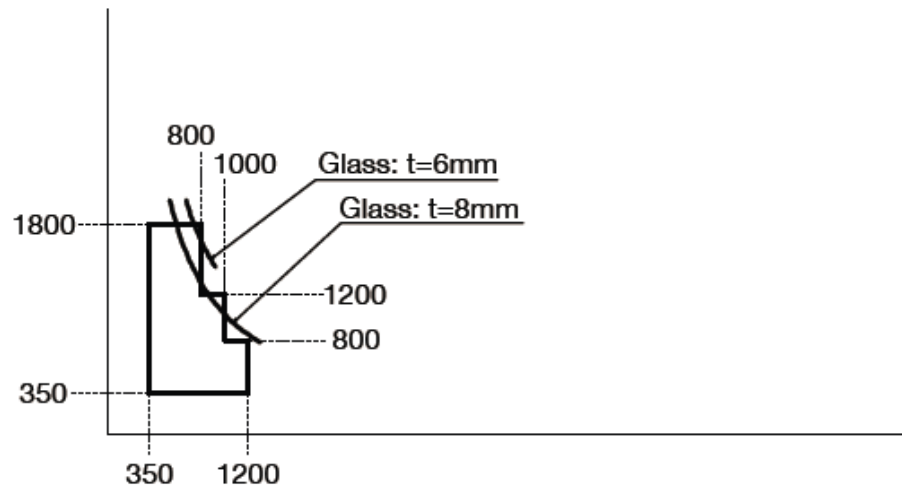
<Horizontal section: Double casement with screen>

WINDOWS

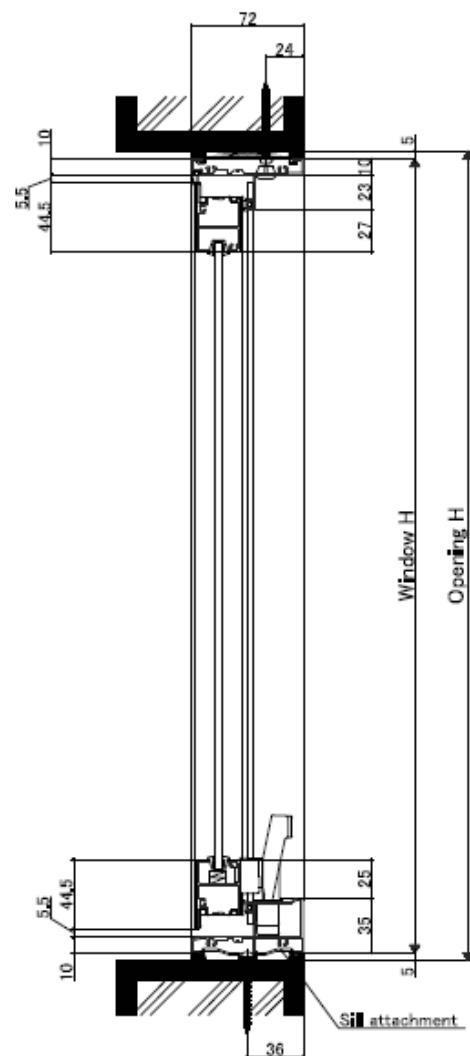
Awning Window



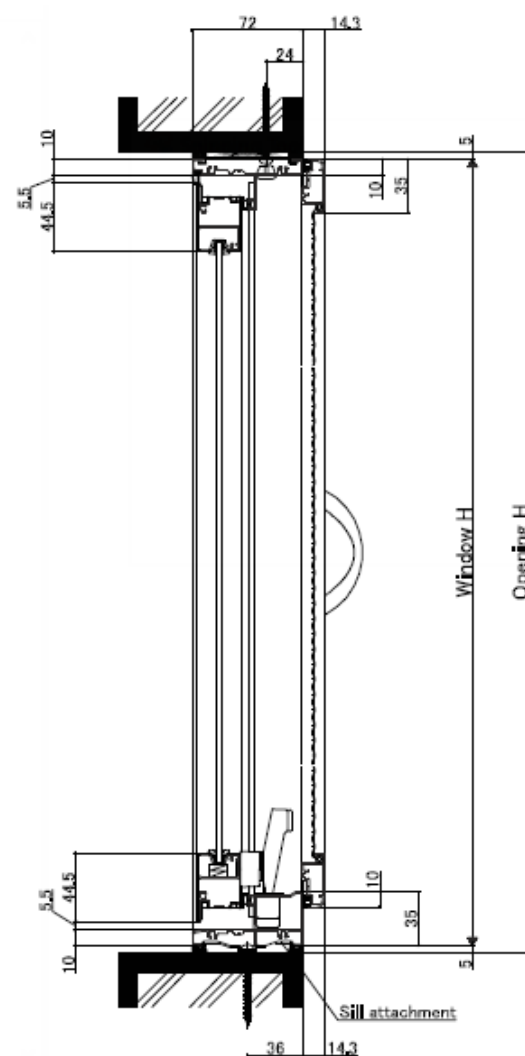
- Insect Screen available



WINDOWS

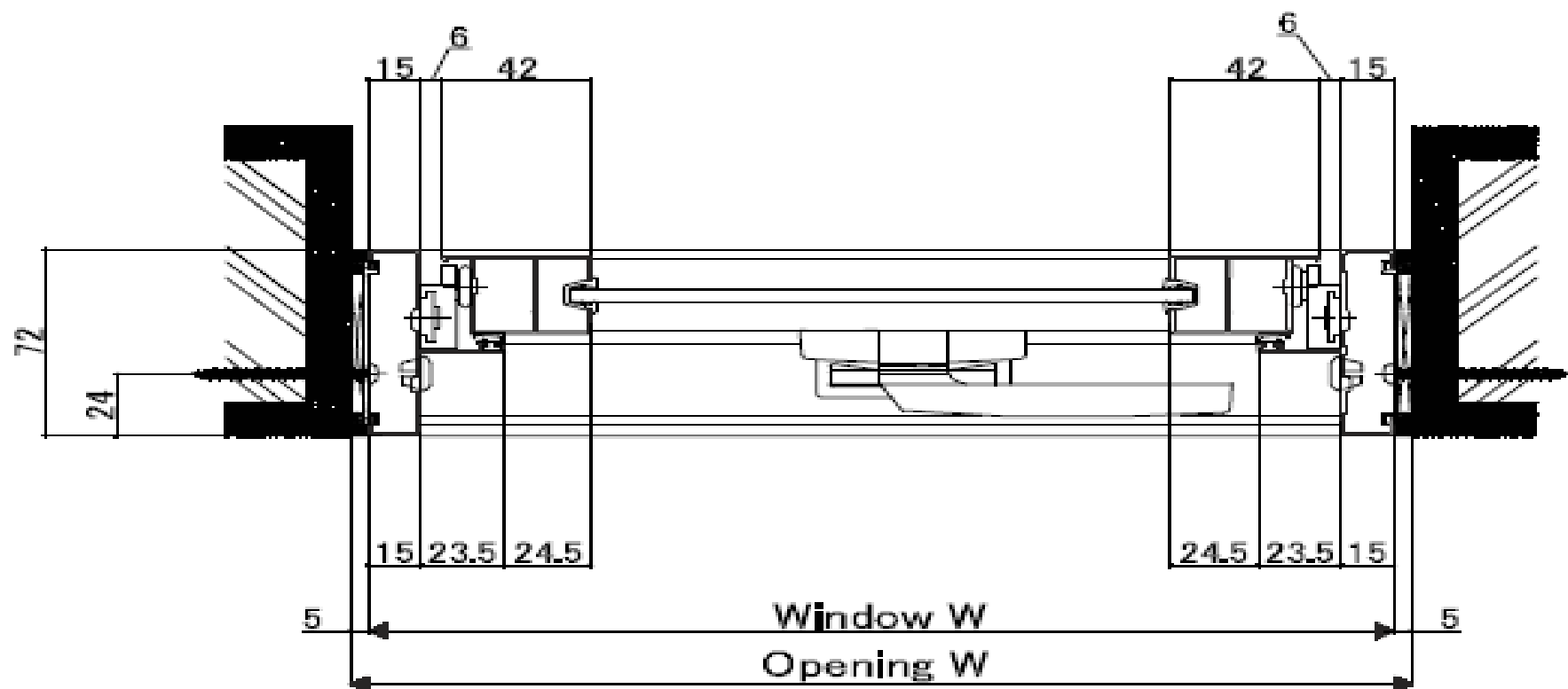


<Vertical section: Awning window>



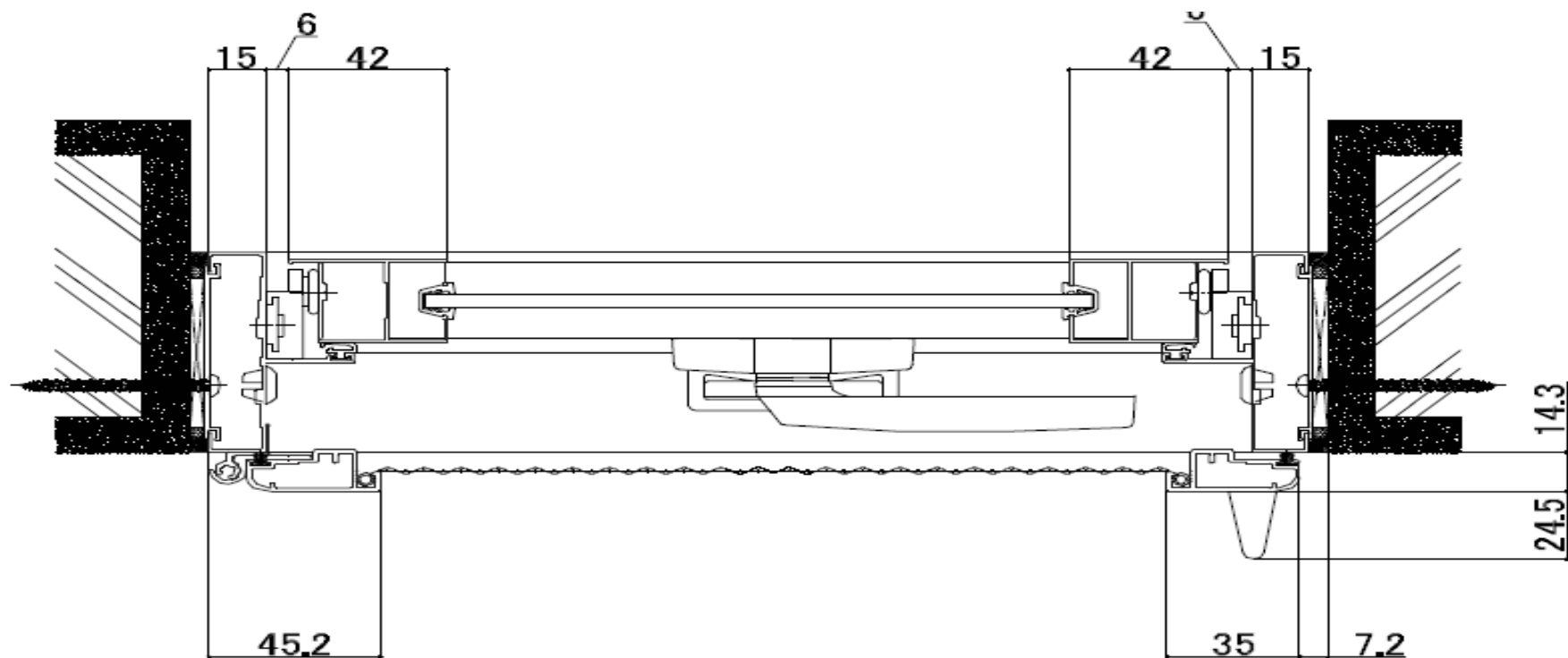
<Vertical section: Awning with screen>

WINDOWS



<Horizontal section: Awning window>

WINDOWS



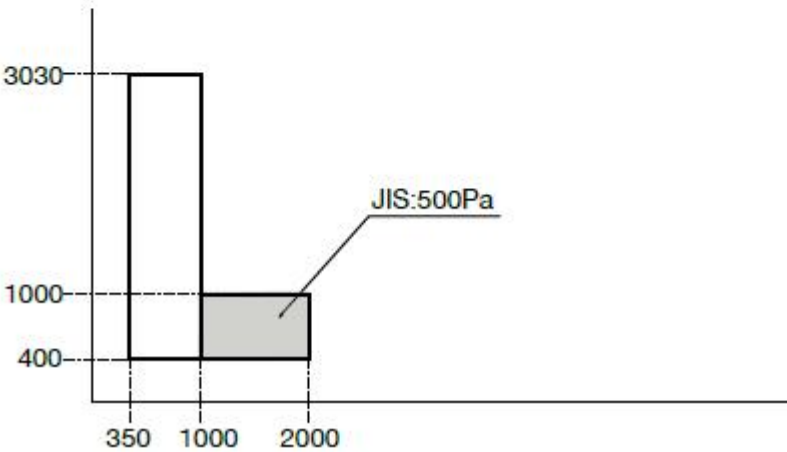
<Horizontal section: Awning with screen>

LOUVERS – ONLY IN WE 70

Aluminium Louver



- No performance



Glass Louver

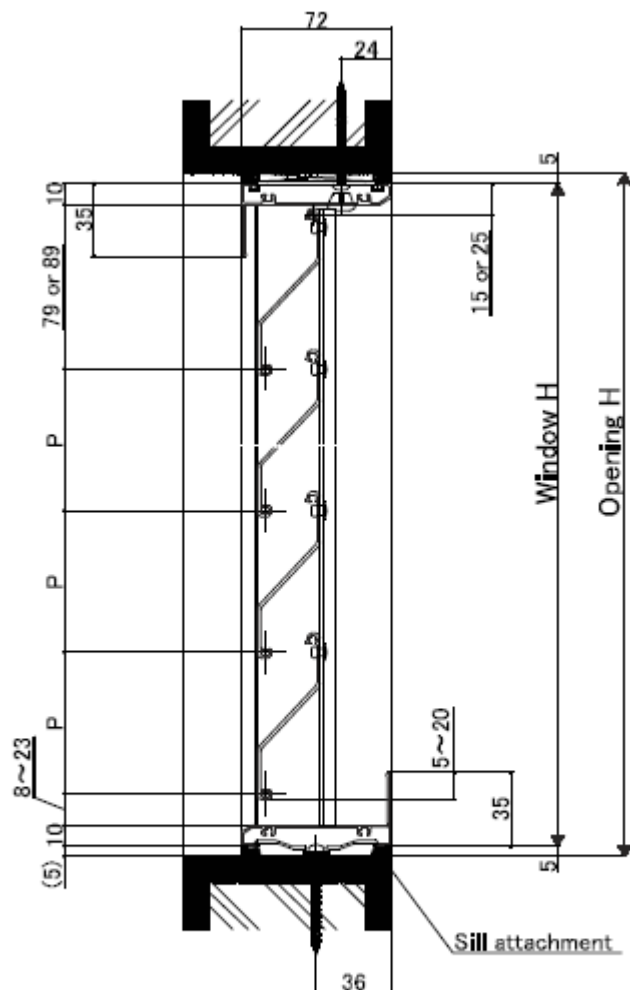


- Single, double, triple are available
- Insect screen available
- Water performance JIS: W-1 (100Pa)

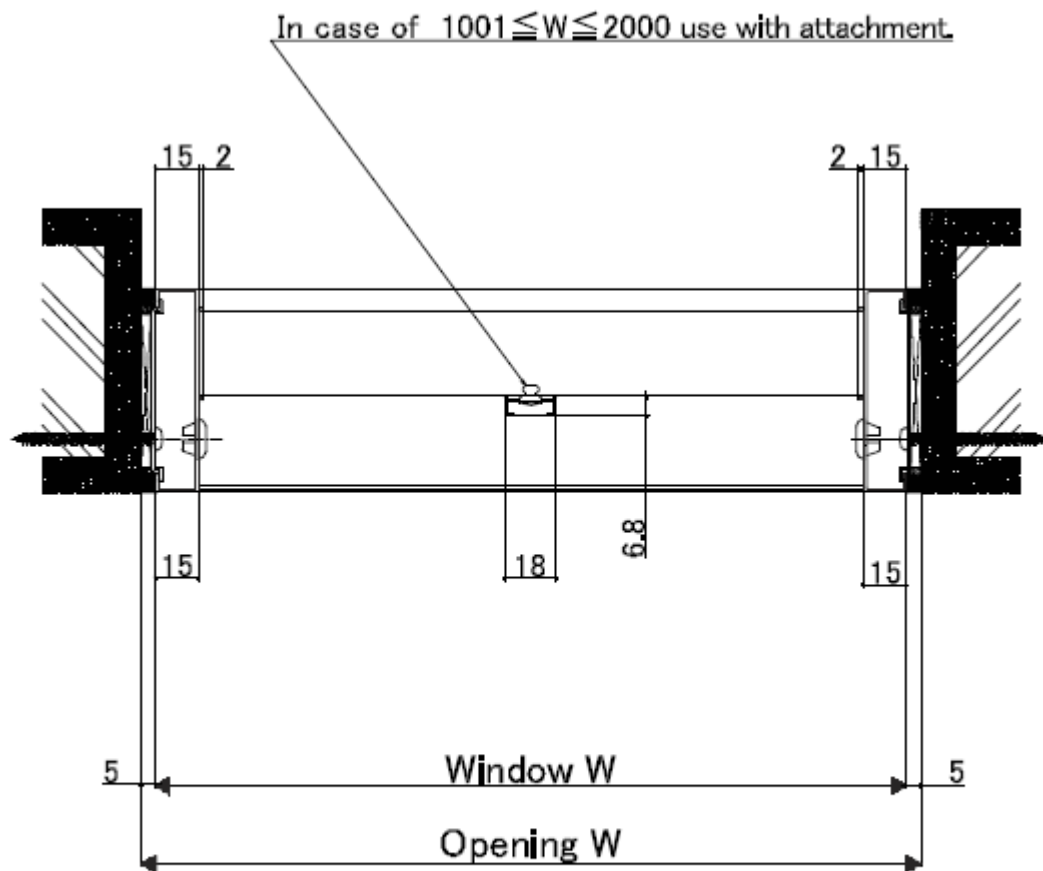
* Please consult with our sales rep. for lead-time

			Width		
H	Blades	Handles	Single	Double	Triple
312	3	1	400≤W≤800	800<W≤1600	1600<W≤2400
401	4				
490	5				
579	6				
668	7				
757	8				
846	9	2			
935	10				
1024	11				
1113	12				
1202	13				
1558	14				
1380	15				
1469	16				
1291	17	3			

LOUVERS

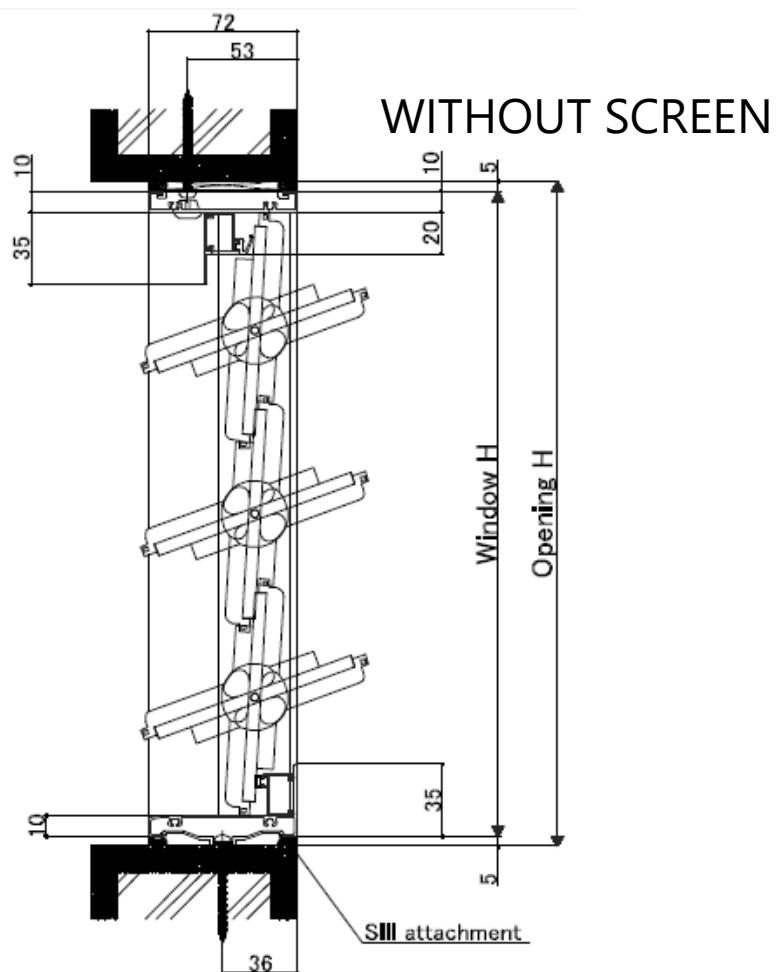


<Vertical section: Aluminum louver>

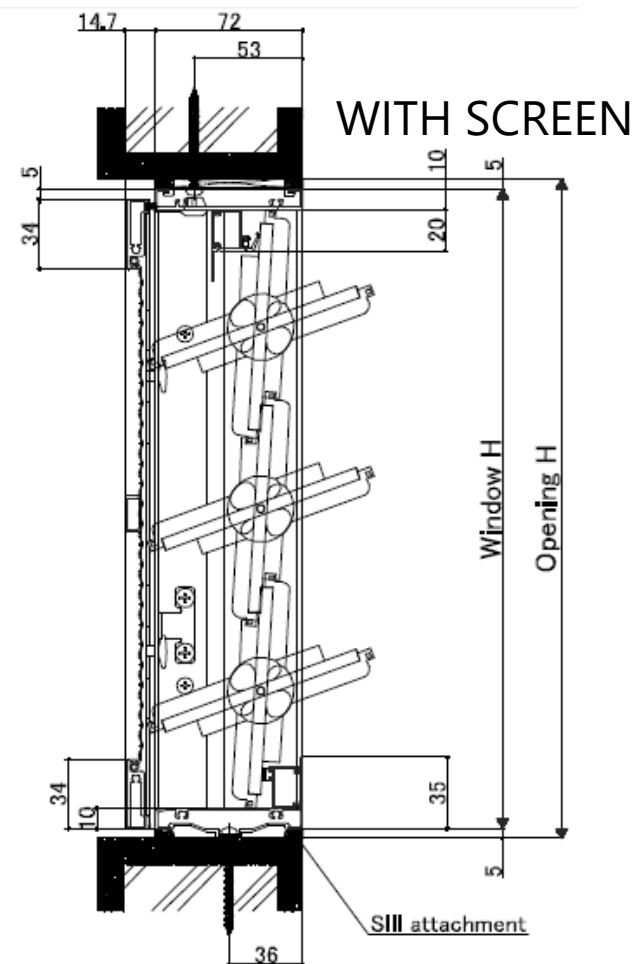


<Horizontal section: Aluminum louver>

LOUVERS

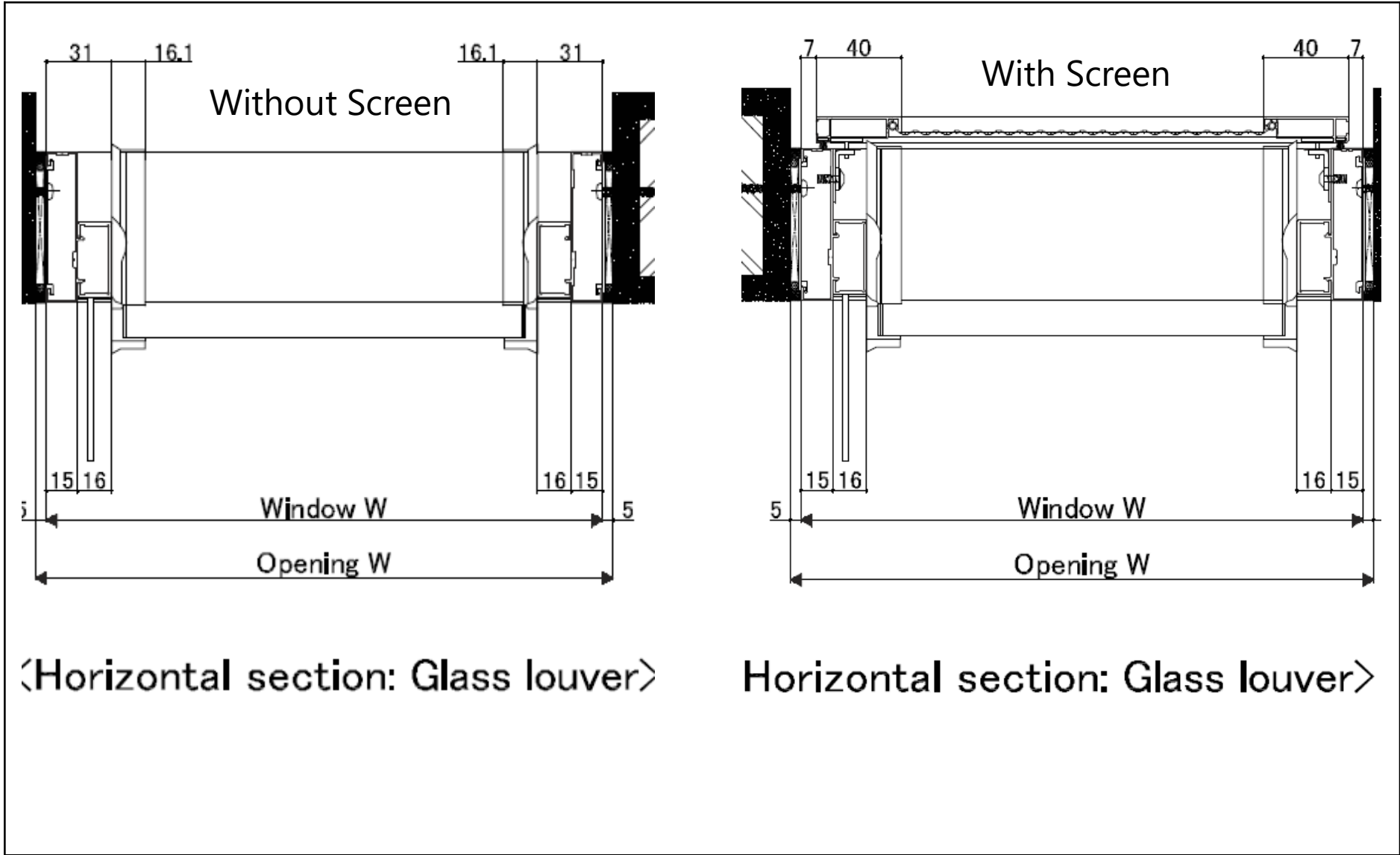


<Vertical section: Glass louver>



<Vertical section: Glass louver>

LOUVERS

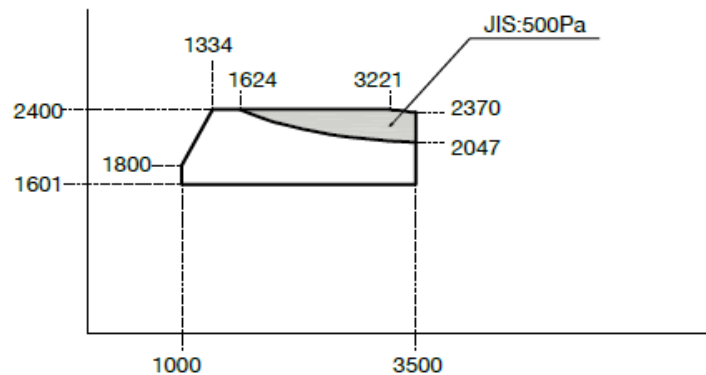


DOORS

Sliding Door (2 panels on 2 tracks)



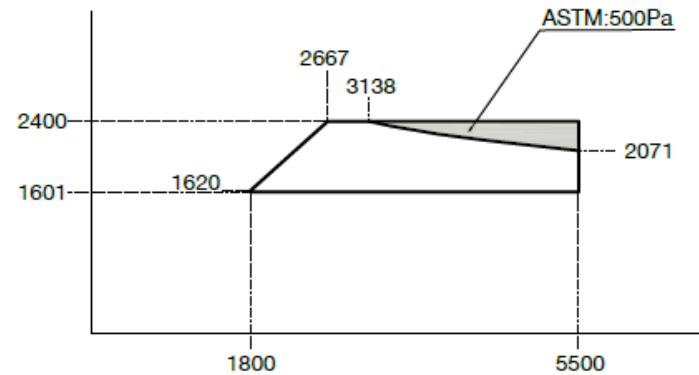
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- Insect screen available (internal)



Sliding Door (4 panels on 2 tracks)



- Sill options (standard & floor finish)
- Insect screen available (internal)

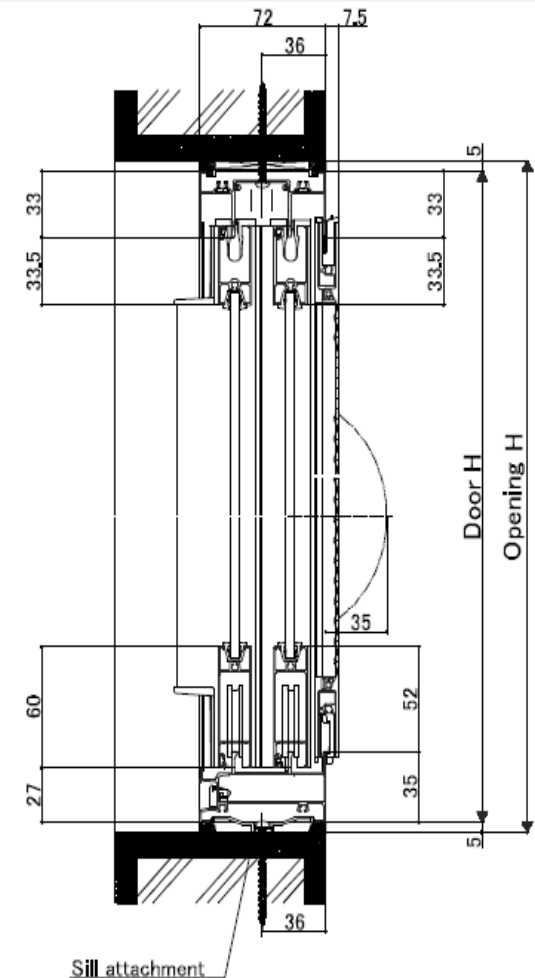
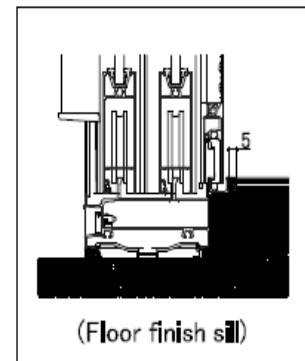
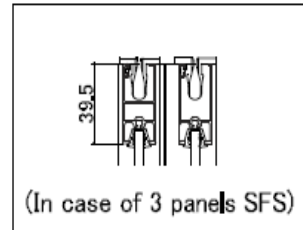
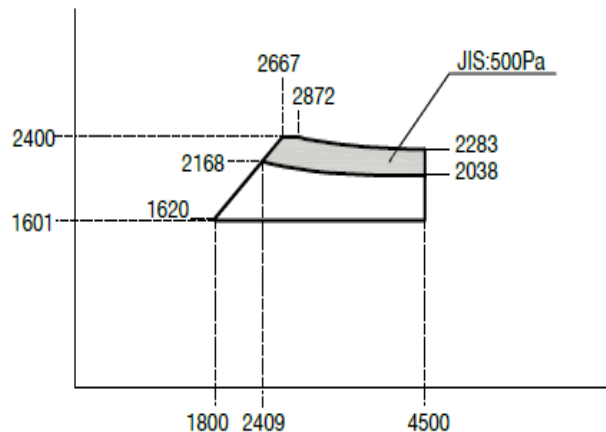


DOORS

Sliding Door (3 panels on 2 tracks) SFS

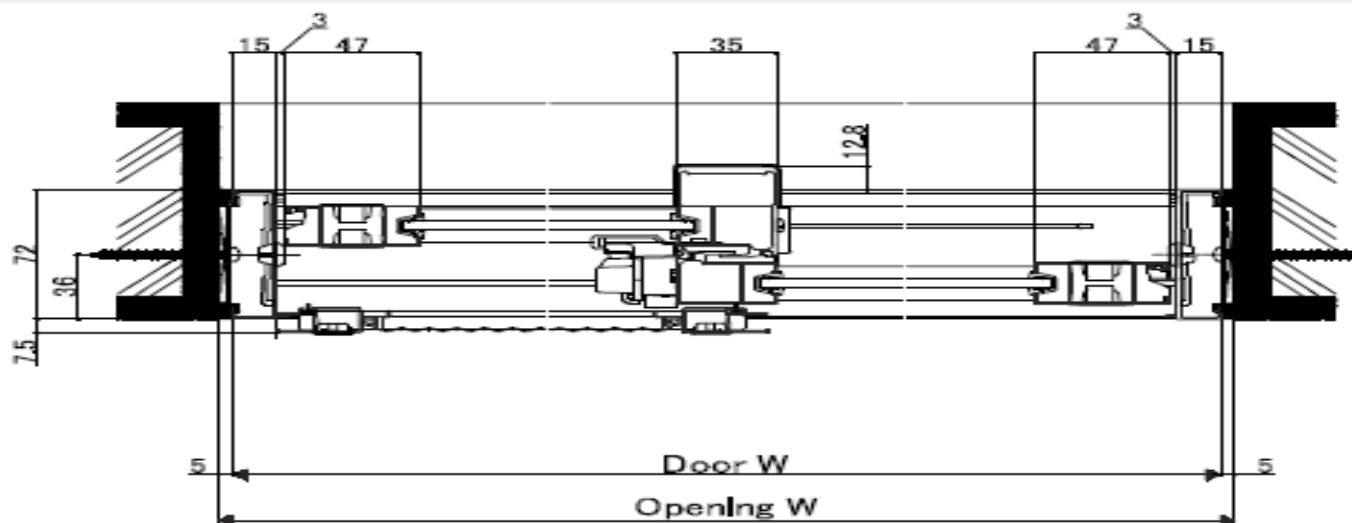


- Sill options (standard & floor finish)
- Insect screen available (internal)

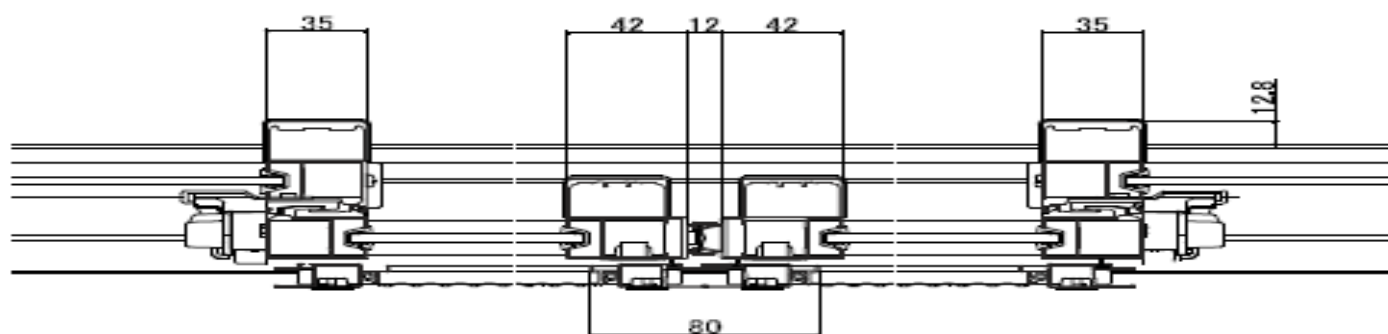


<Vertical section: 2, 4 and SFS 3 panels sliding door>

DOORS



<Horizontal section: 2 panels sliding door>



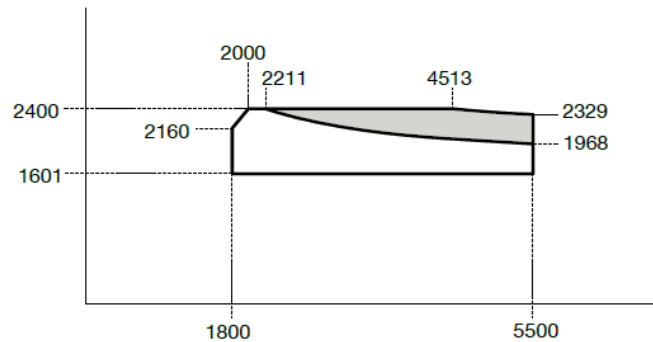
<Horizontal section: 4 panels sliding door>

DOORS

Sliding Door (3 panels on 3 tracks)



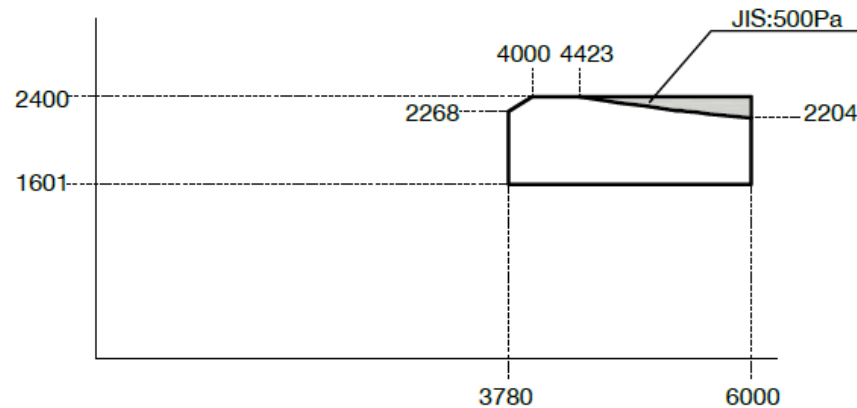
- Sill options (standard & floor finish)
- Insect screen available (internal)



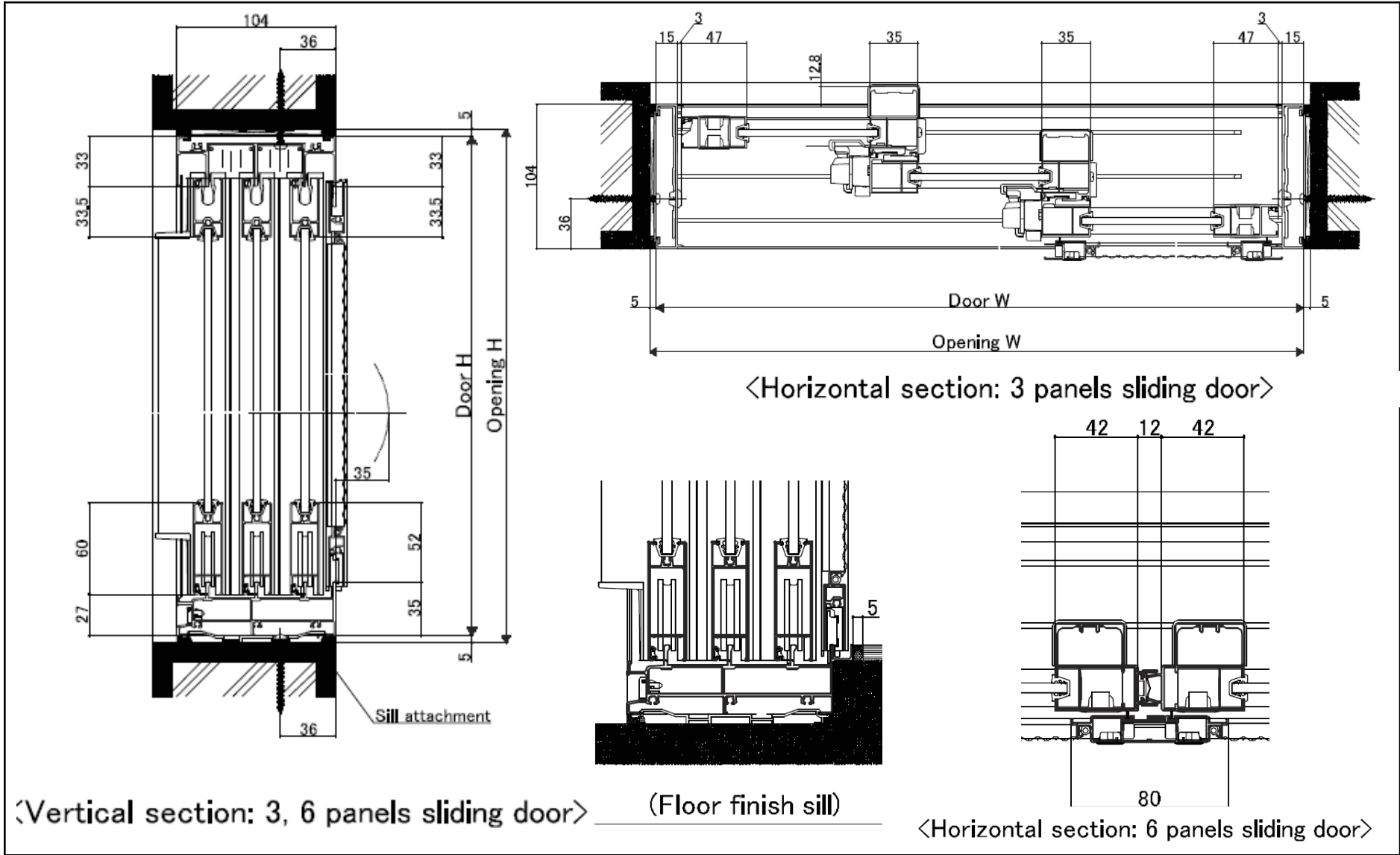
Sliding Door (6 panels on 3 tracks)



- Sill options (standard & floor finish)
- Insect screen available (internal)



DOORS

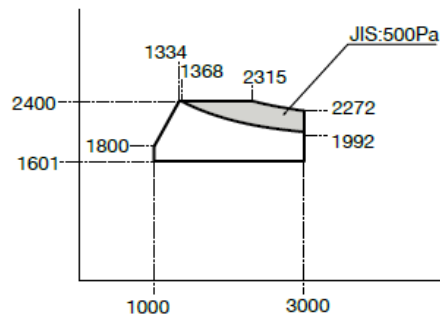


DOORS (ONLY IN WE 70)

Entrance Sliding Door (2 panels on 2 tracks)



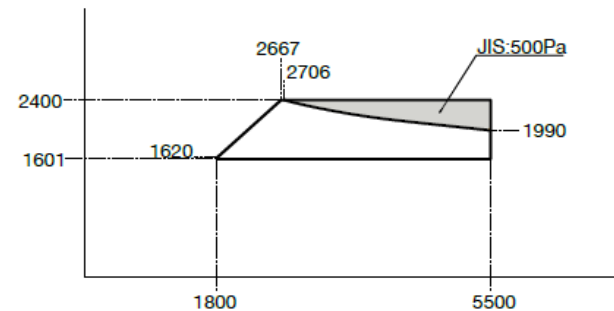
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- External Insect screen available



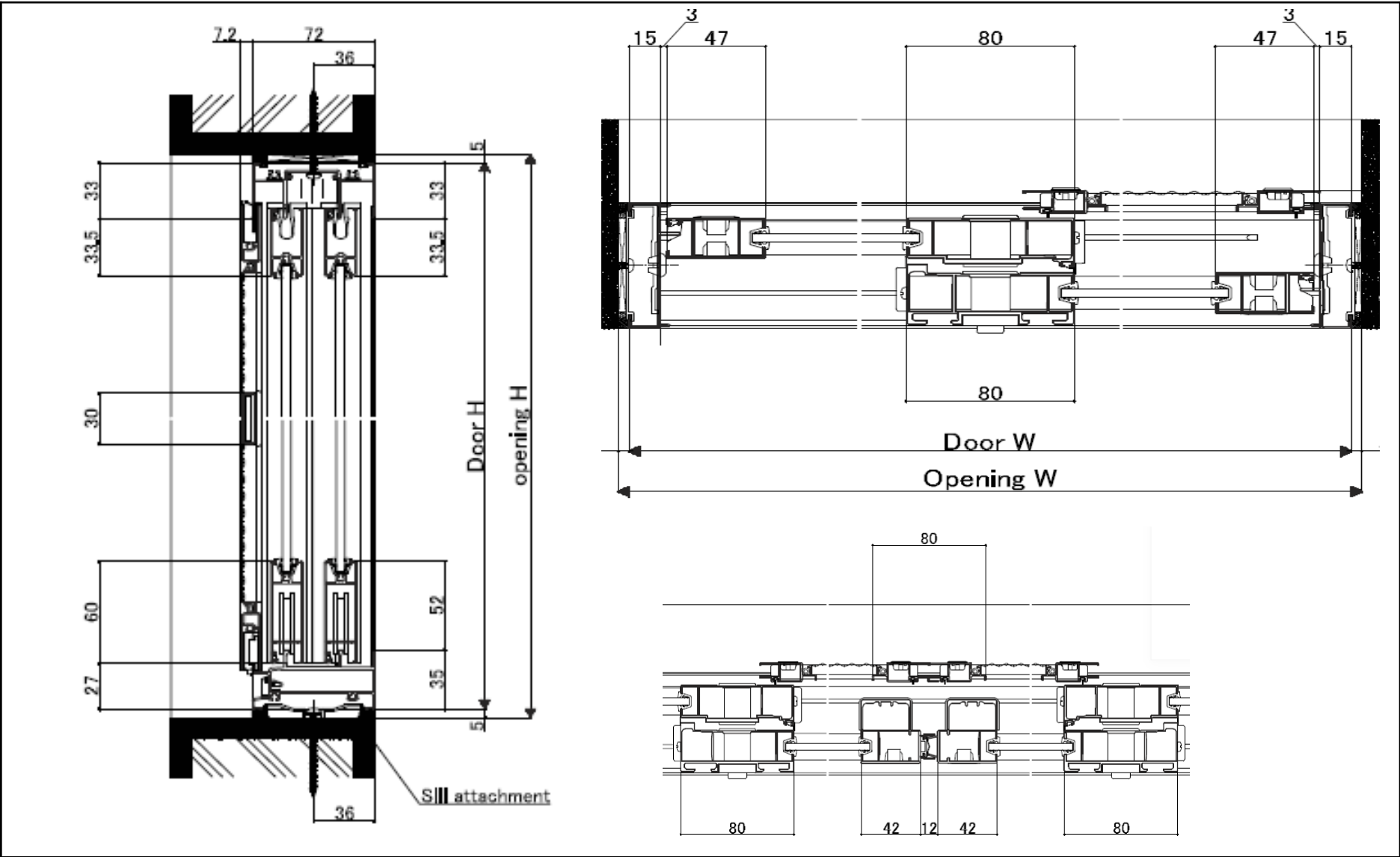
Entrance Sliding Door (4 panels on 2 tracks)



- Sill options (standard & floor finish)
- External Insect screen available

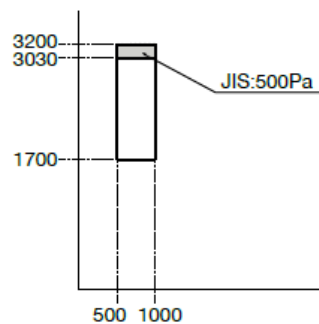
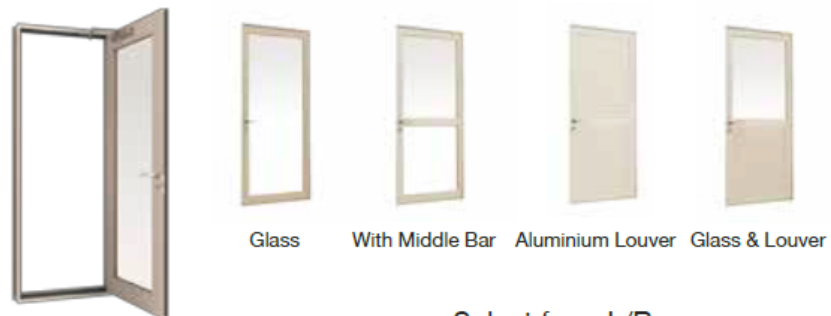


DOORS



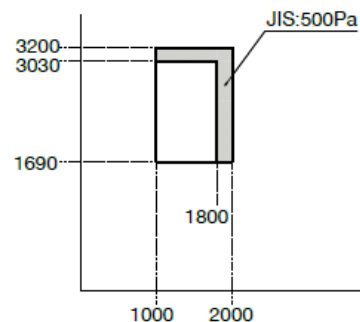
DOORS

Out-Swing Door (Single)



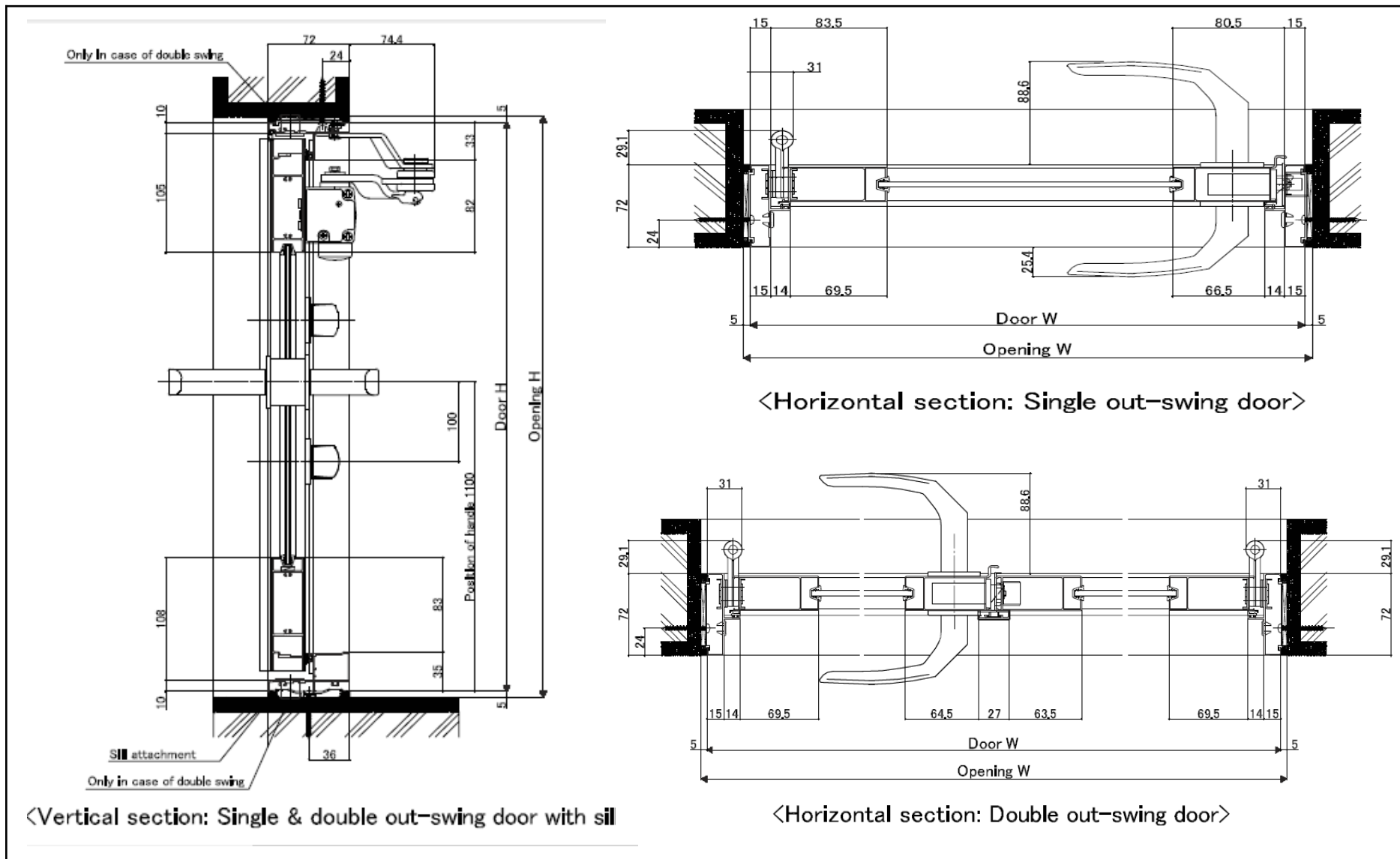
- Select from L/R
 - Sill option (with/without sill)
 - Door closer (optional)
 - Insect screen available with louver door
- *in case of non-sill,
no air and water performance
determined

Out-Swing Door (Double)



- Select from L/R
 - Sill option (with/without sill)
 - Door closer (optional)
 - Insect screen available with louver door
- *in case of non-sill,
no air and water performance
determined

DOORS



DOORS

In-Swing Door (Single)



Glass



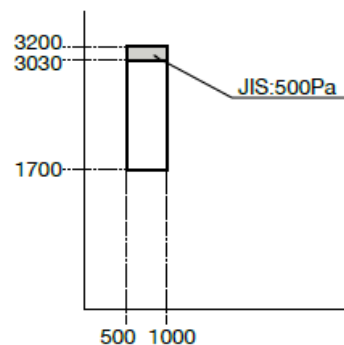
With Middle Bar



Aluminium Louver



Glass & Louver



- Select from L/R
- Non-sill only
- Door closer (optional)
- Insect screen available with louver door
- No air and water performance determined

In-Swing Door (Double)



Glass



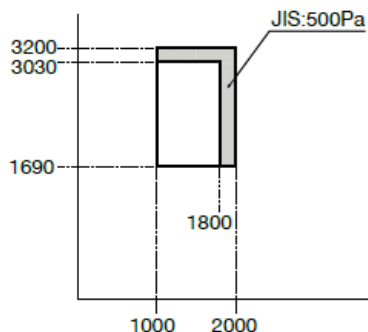
With Middle Bar



Aluminium Louver

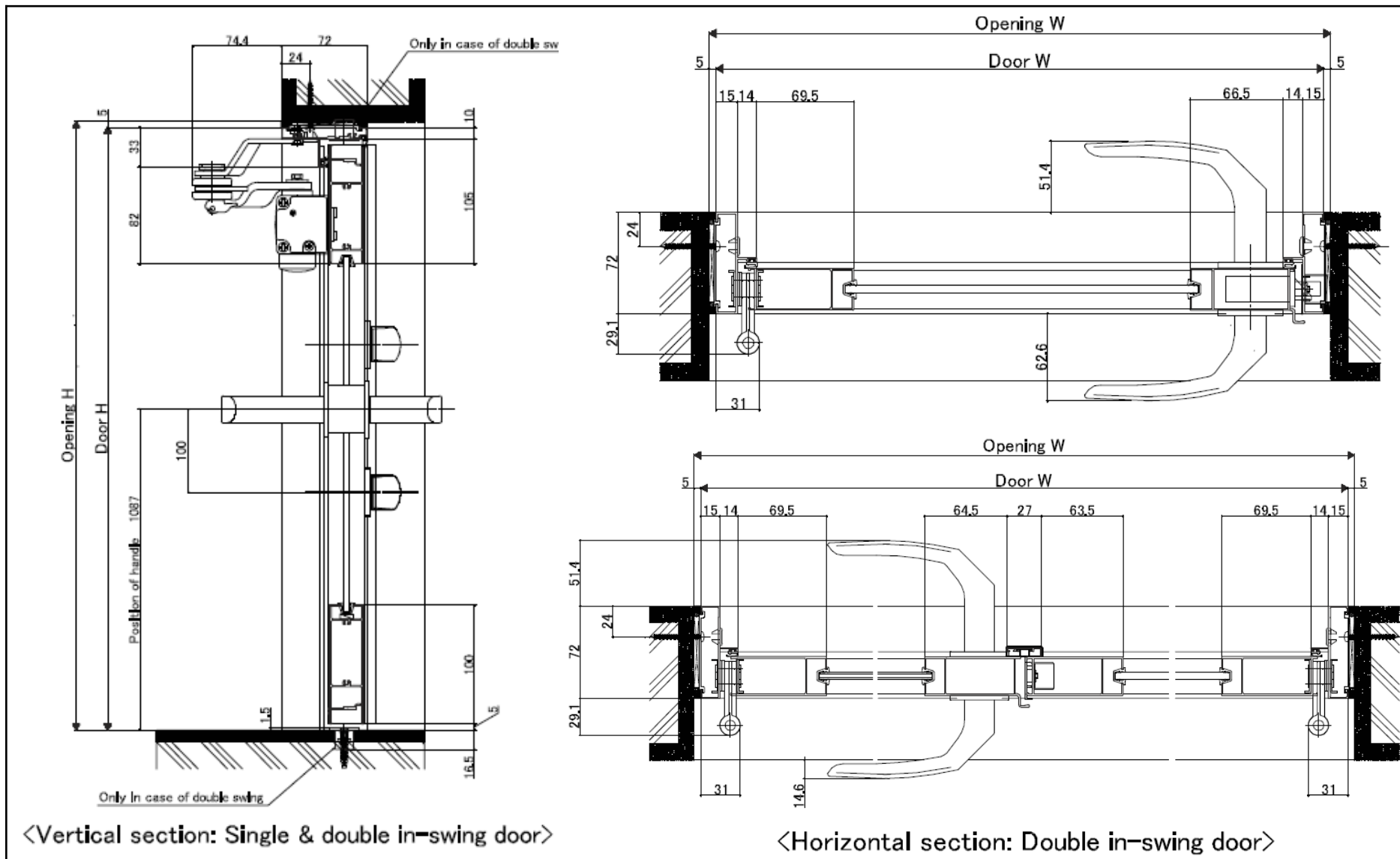


Glass & Louver



- Select from L/R
- Non-sill only
- Door closer (optional)
- Insect screen available with louver door
- No air and water performance determined

DOORS

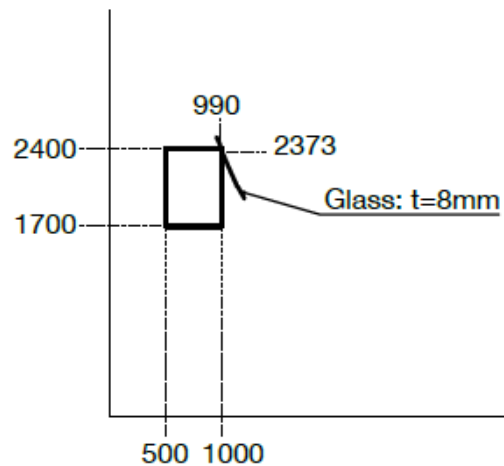


DOORS – ONLY IN WE70

Ventilation Door



ect from L/R
or closer (optional)
tice with screen available



The image contains two technical drawings of a ventilation door, labeled (a) and (b).

(a) Vertical section: Ventilation Door
 This drawing shows a cross-section of the door in the vertical plane. Key dimensions include:
 - Total height: 109.5
 - Top section height: 10.0
 - Middle section height: 53.0
 - Bottom section height: 15.5
 - Door height: Door H
 - Opening height: Opening H
 - Sil attachment: Indicated at the bottom left.
 - Position of handle: 1100 (indicated by a vertical line from the bottom).

(b) Horizontal section: Ventilation Door
 This drawing shows a cross-section of the door in the horizontal plane. Key dimensions include:
 - Total width: 109.5
 - Left side width: 10.0
 - Middle section width: 56.5
 - Right side width: 45.5
 - Door width: Door W
 - Opening width: Opening W
 - Sil attachment: Indicated at the bottom left.

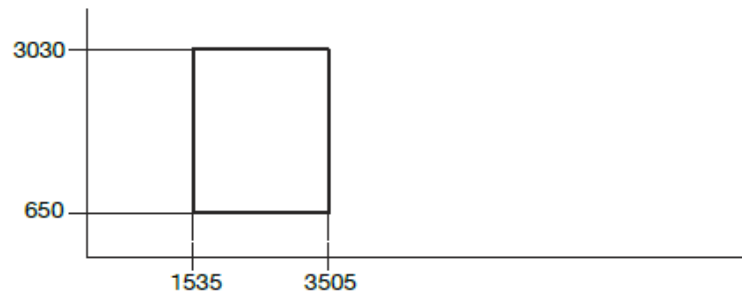
DOORS – ONLY IN WE 70

Folding Door (4 panels)



- Select from L/R
- Sill option (standard & flat)
- 1 panel cannot exceed 40kg.
- Choose from
 - One way open
 - Both ways open
 - Center open

*in case of flat-sill, no air and water performance determined

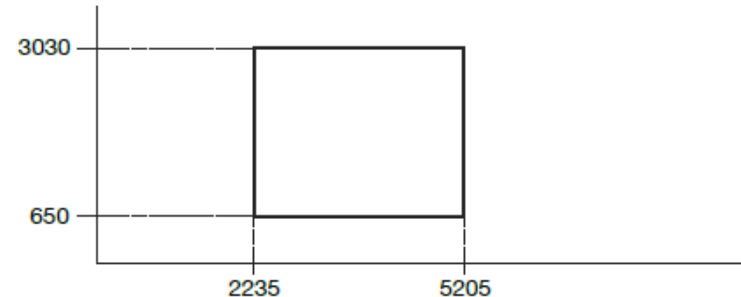


Folding Door (6 panels)



- Select from L/R
- Sill option (standard & flat)
- 1 panel cannot exceed 40kg.
- Choose from
 - One way open
 - Both ways open
 - Center open

*in case of flat-sill, no air and water performance determined

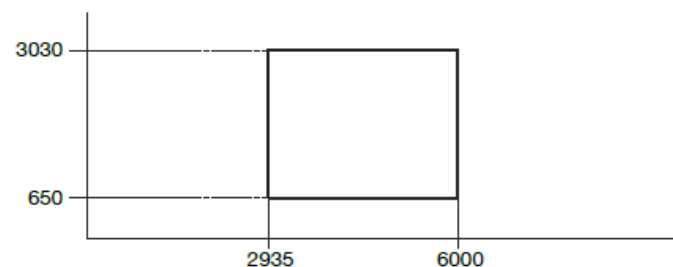


DOORS – ONLY IN WE 70

Folding Door (8 panels)

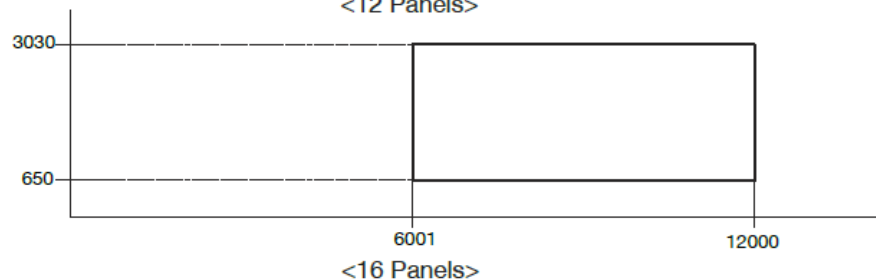
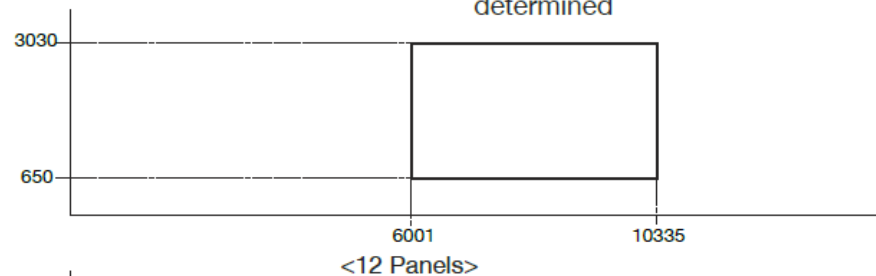


- Select from L/R
- Sill option (standard & flat)
- 1 panel cannot exceed 40kg.
- Choose from
 - One way open
 - Both ways open
 - Center open
- Water performance is JIS: 120 pa
*in case of flat-sill, no air and water performance determined

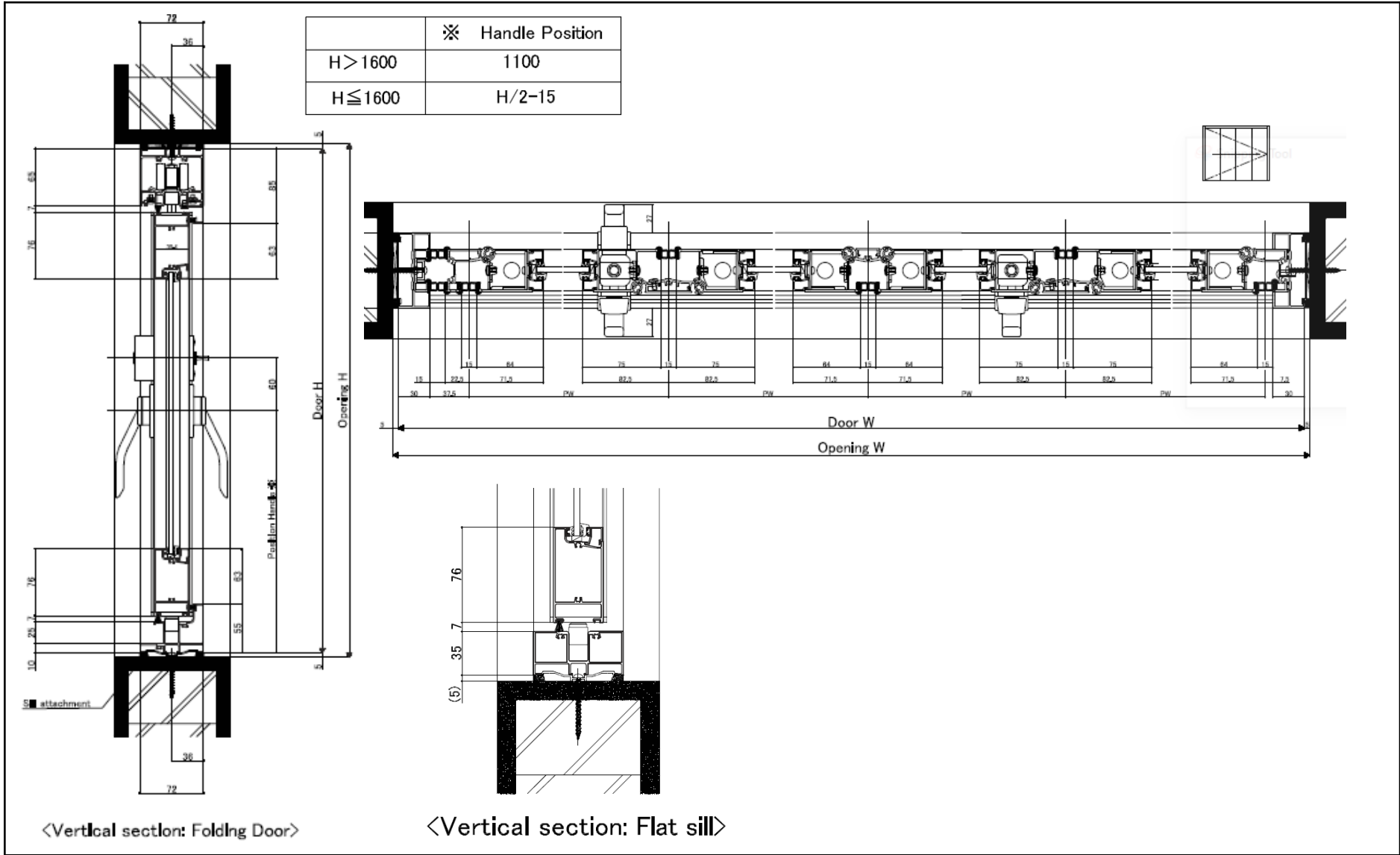


Folding Door (12,16 panels)

- Sill option (standard & flat)
- 1 panel cannot exceed 40kg.
- Center open only
- No no air and water performance determined

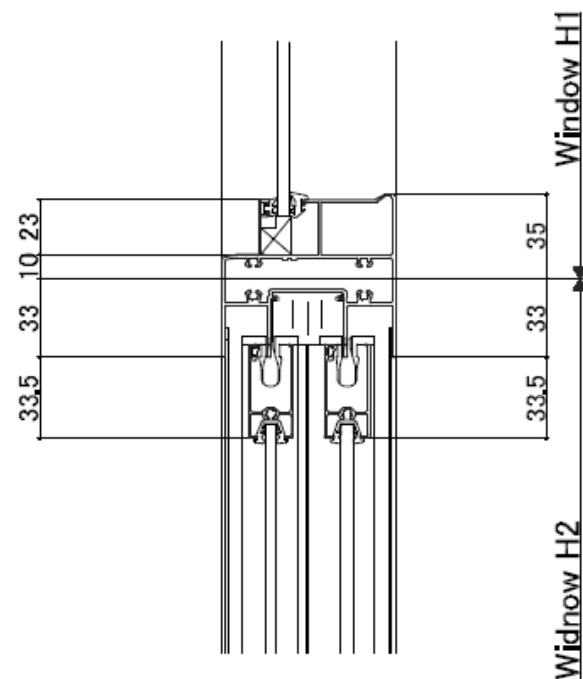
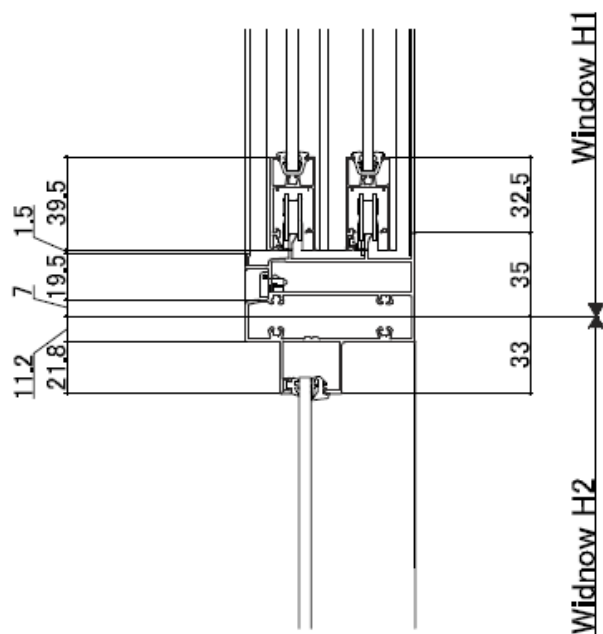


DOORS



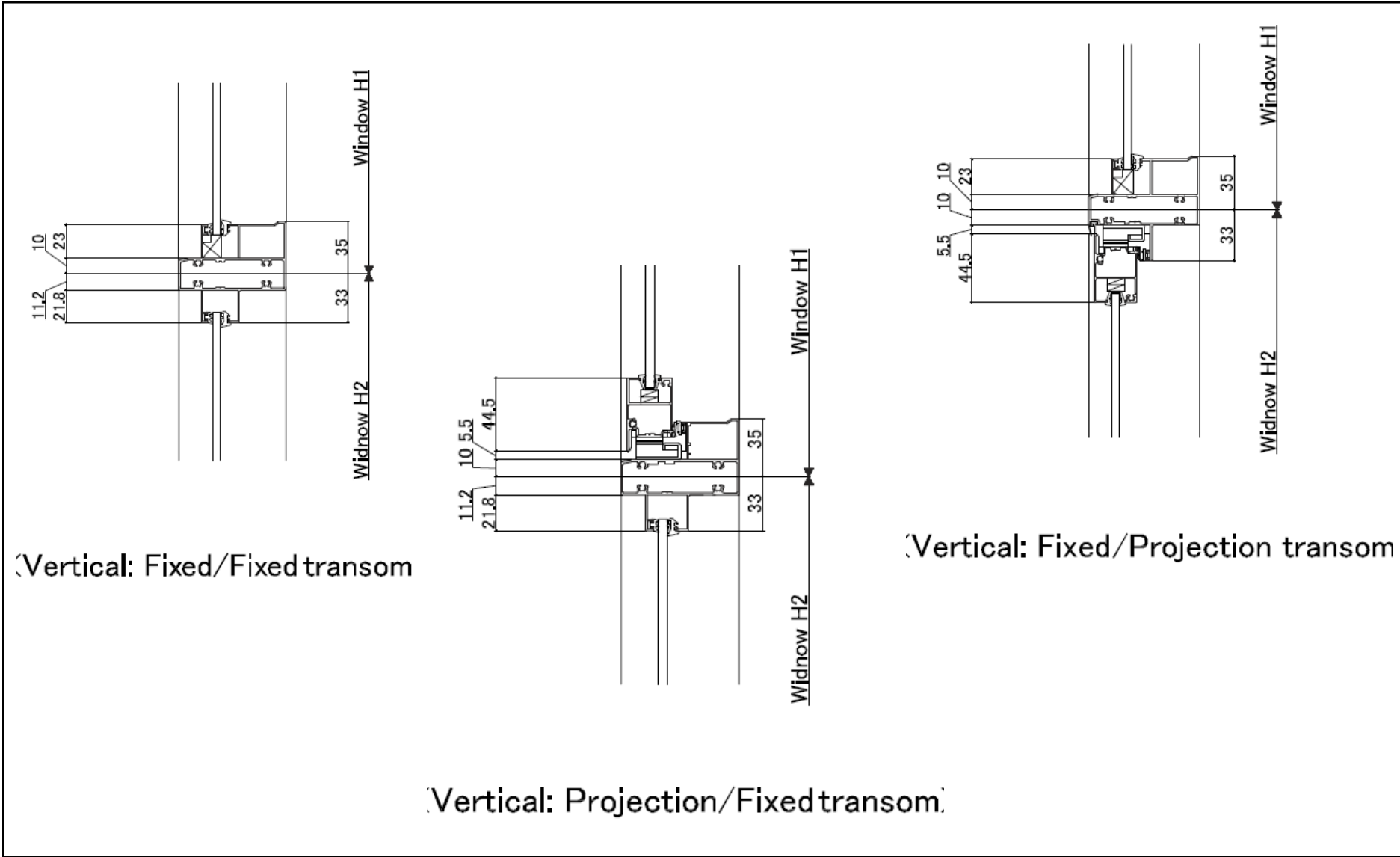
The image contains two technical drawings of door profiles, labeled 'Door W' and 'Opening W'. Each drawing shows a cross-section of the door profile with various dimensions and components. The top drawing shows a profile with a central handle and multiple locking points. The bottom drawing shows a similar profile but with a different handle design. Both drawings include detailed cross-sections of the door profile and a small inset diagram showing the door's operation.

COMBINATION – UNIT TRANSOM (ONLY IN WE 70)

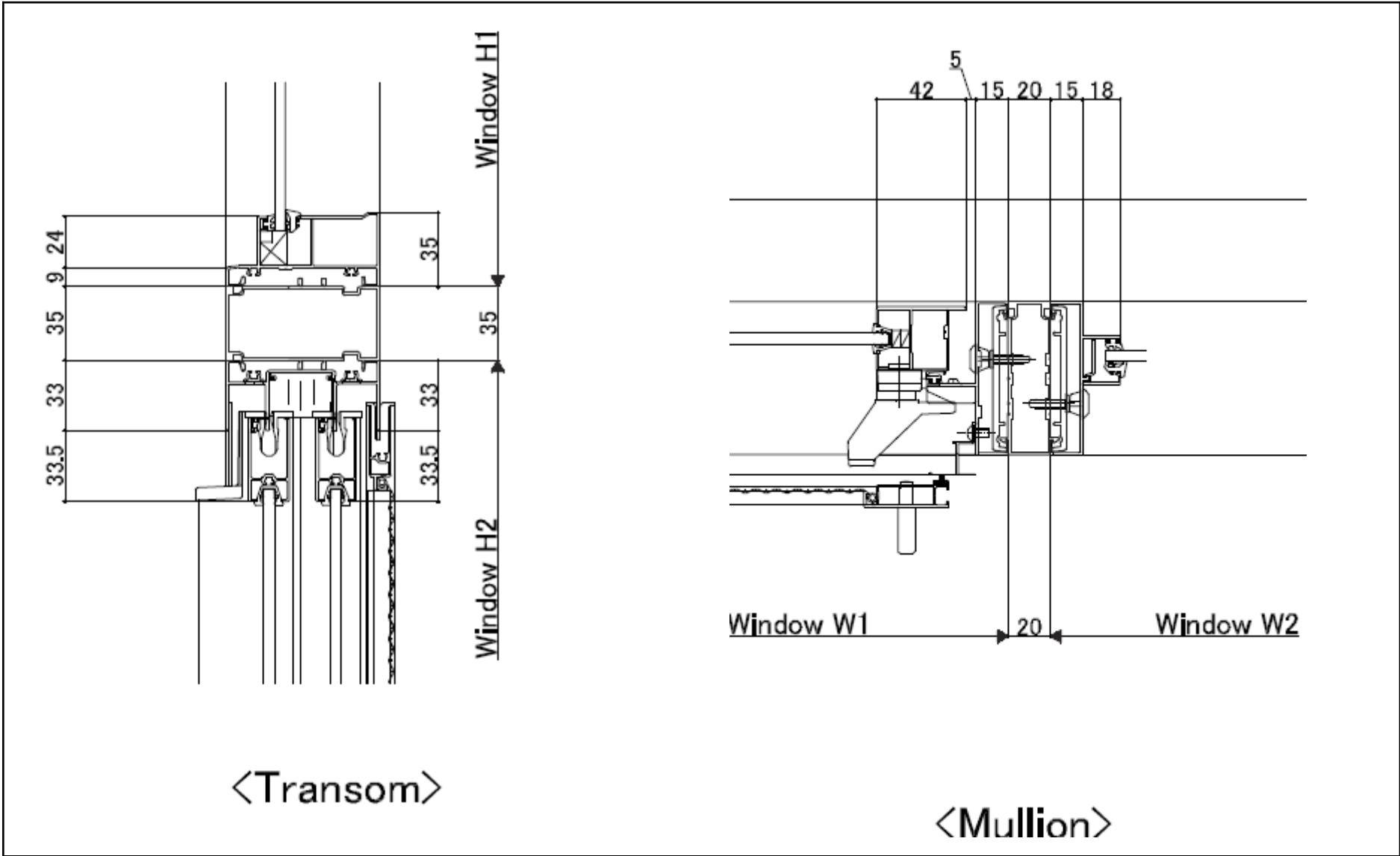


<Vertical section: Sliding/Fixed transom> <Vertical section: Fixed/Sliding transom>

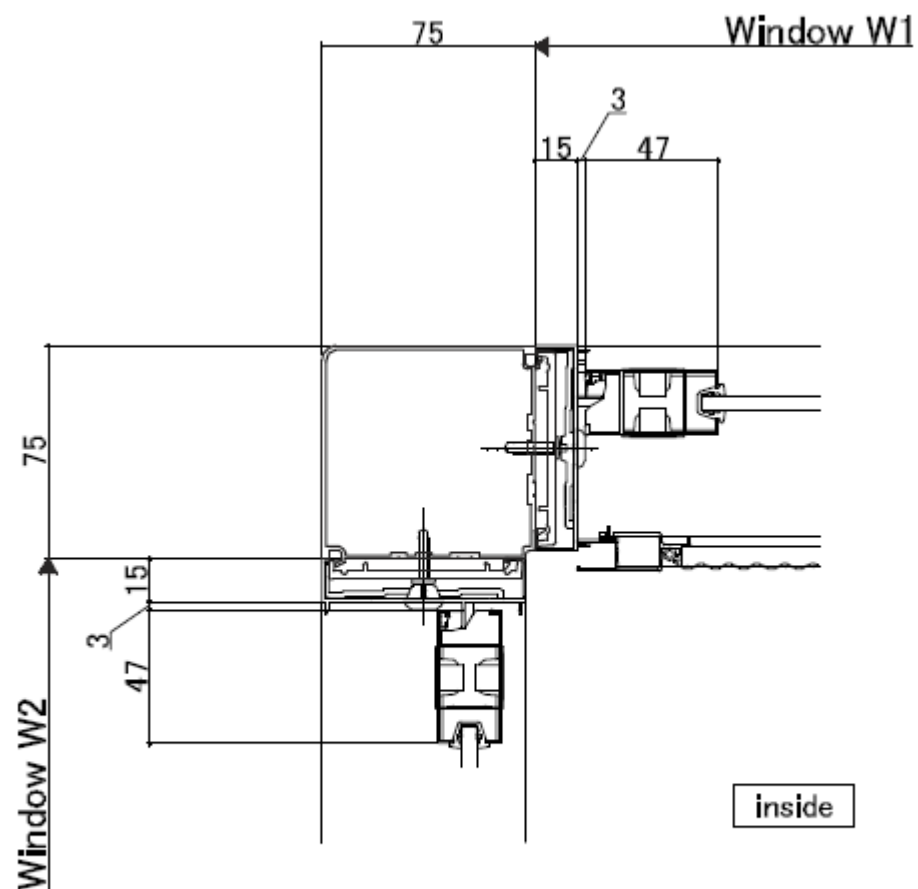
COMBINATION



COMBINATION



COMBINATION



<Corner mullion>

COUPLING MATRIX

UNIT WINDOWS

Bottom Windows	Top Windows											
	Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SFS	Single Awning	Single Casement	Double Casement	1 Panel Fix	2 Panels Fix	3 Panels Fix	4 Panels Fix	Outward Corner Fix	Inward Corner Fix
Sliding Window (2 panels on 2 Tracks)							●	●				
Sliding Window (4 panels on 2 Tracks)								●	●	●		
Sliding Window (3 panels on 2 Tracks) SFS								●	●	●		
Single Awning							●					
Single Casement							●					
Double Casement							●	●				
1 Panel Fix	●			●	●	●	●					
2 Panels Fix	●	●	●			●		●	●	●		
3 Panels Fix		●	●				●	●	●	●		
4 Panels Fix		●	●				●	●	●	●		
Outward-Corner Fix											●	
Inward-Corner Fix												●

COUPLING MATRIX

UNIT DOORS

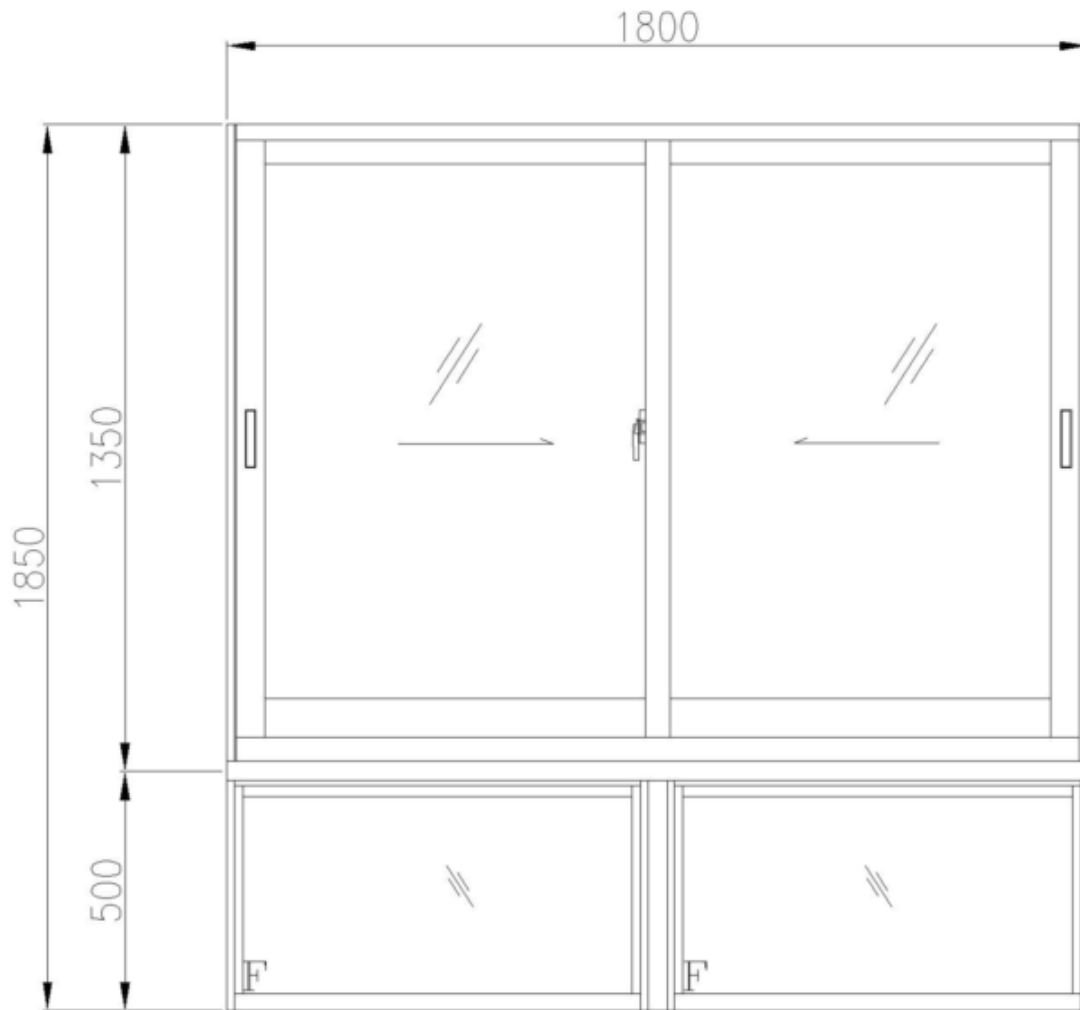
Bottom Doors	Top Windows			
	1 Panel Fix	2 Panels Fix	3 Panels Fix	4 Panels Fix
Sliding Door (2 panels on 2 Tracks)	•	•		
Sliding Door (4 panels on 2 Tracks)		•	•	•
Sliding Door (3 panels on 2 Tracks) SFS		•	•	•
2 Panels Fix		•	•	•
3 Panels Fix		•	•	•
4 Panels Fix		•	•	•
Swing Door (Single)	•			
Swing Door (Double)		•		

HARDWARE COLOUR MATRIX

Parts color chart for WE Series and P7								
Product color code	P	M	N	W	D	K	G	T
Product color name	Natural white	Natural white	Natural white	Ivory white	Natural silver	Shine gray	Autmn Brown	Black
Aluminium color	Natural white	Natural white	Natural white	Ivory white	Natural silver	Shine gray	Autmn Brown	Black
PARTS color	White	Grey	Dark Brown	Ivory white + Grey	Grey	Grey	Dark Brown	Dark Brown
CRESENT	X (white)	S (Grey)	G (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	G (Dark Brown)	G (Dark Brown)
PULL	X (white)	S (Grey)	B (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	B (Dark Brown)	B (Dark Brown)
LOCK FOR ENTRÉE	X (white)	S (Grey)	B (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	B (Dark Brown)	B (Dark Brown)
WE40 , WE70 CAM LATCH HANDLE FOR CASEMENT	X (white)	S (Grey)	U (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	U (Dark Brown)	U (Dark Brown)
WE40 , WE70 CAM LATCH HANDLE FOR AWNING	X (white)	S (Grey)	G (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	G (Dark Brown)	G (Dark Brown)
WE-PLUS WE70 CAM LATCH HANDLE FOR CASEMENT	X (white)	S (Grey)	G (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	G (Dark Brown)	G (Dark Brown)
WE-PLUS CAM LATCH HANDLE FOR AWNING	X (white)	S (Grey)	G (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	G (Dark Brown)	G (Dark Brown)
CREMONE HANDLE FOR CASEMENT	X (white)	S (Grey)	U (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	U (Dark Brown)	U (Dark Brown)
CREMONE HANDLE FOR AWNING	X (white)	S (Grey)	U (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	U (Dark Brown)	U (Dark Brown)
HINGE FOR DOOR	F (white)	Y (Grey)	G (Dark Brown)	D (Ivory white)	H (light Grey)	Y (Grey)	G (Dark Brown)	G (Dark Brown)
DOOR CLOSER	P (white)	W (Grey)	G (Dark Brown)	W (Grey)	W (Grey)	W (Grey)	G (Dark Brown)	G (Dark Brown)
PUSH BUTTON FOR P7	-	K (Grey)	G (Dark Brown)	W (ivory white)	K (Grey)	K (Grey)	G (Dark Brown)	G (Dark Brown)
PUSH BUTTON FOR WE , WE-PLUS	N (White)	K (Grey)	G (Dark Brown)	W (ivory white)	K (Grey)	K (Grey)	G (Dark Brown)	G (Dark Brown)
GASKET FOR P7	S (Grey)	S (Grey)	G (Dark Brown)	W (ivory white)	S (Grey)	S (Grey)	G (Dark Brown)	G (Dark Brown)
GASKET WE , WE-PLUS	K (Grey)	K (Grey)	G (Dark Brown)	W (ivory white)	K (Grey)	K (Grey)	G (Dark Brown)	G (Dark Brown)
HANDLE FOR FOLDING DOOR	X (white)	S (Grey)	B (Dark Brown)	S (Grey)	S (Grey)	S (Grey)	B (Dark Brown)	B (Dark Brown)
DRAIN CAP & VAIVE (P7)	X (white)	R (Grey)	U (Dark Brown)	D (Grey)	R (Grey)	R (Grey)	U (Dark Brown)	U (Dark Brown)
DRAIN CAP & VAIVE (WE)	X (white)	S (Grey)	U (Dark Brown)	D (Grey)	S (Grey)	S (Grey)	U (Dark Brown)	U (Dark Brown)

VALUE ENGINEERING BY USING WE 70

Case 1: - Slider window with bottom fix



Option - 1

Condition – All parts are in same series

Slider window – WE PLUS

Fix window - WE PLUS

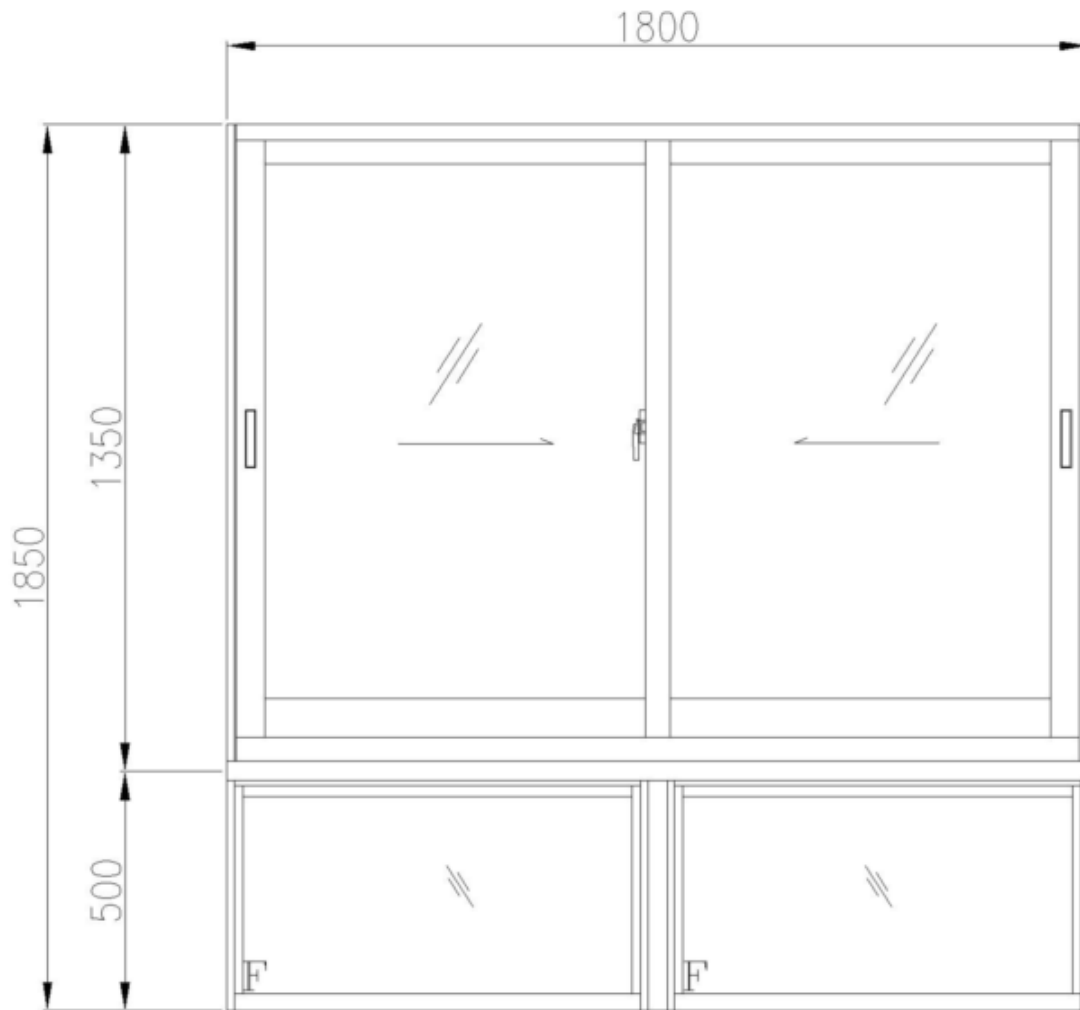
Transom - WE PLUS

Mullion - WE PLUS

Unit Price – 150 USD

VALUE ENGINEERING BY USING WE 70

Case 1: - Slider window with bottom fix



Option – 2

Condition – Fix window is in WE70 series in two parts as size is small

Slider window – WE PLUS

Fix window - WE 70

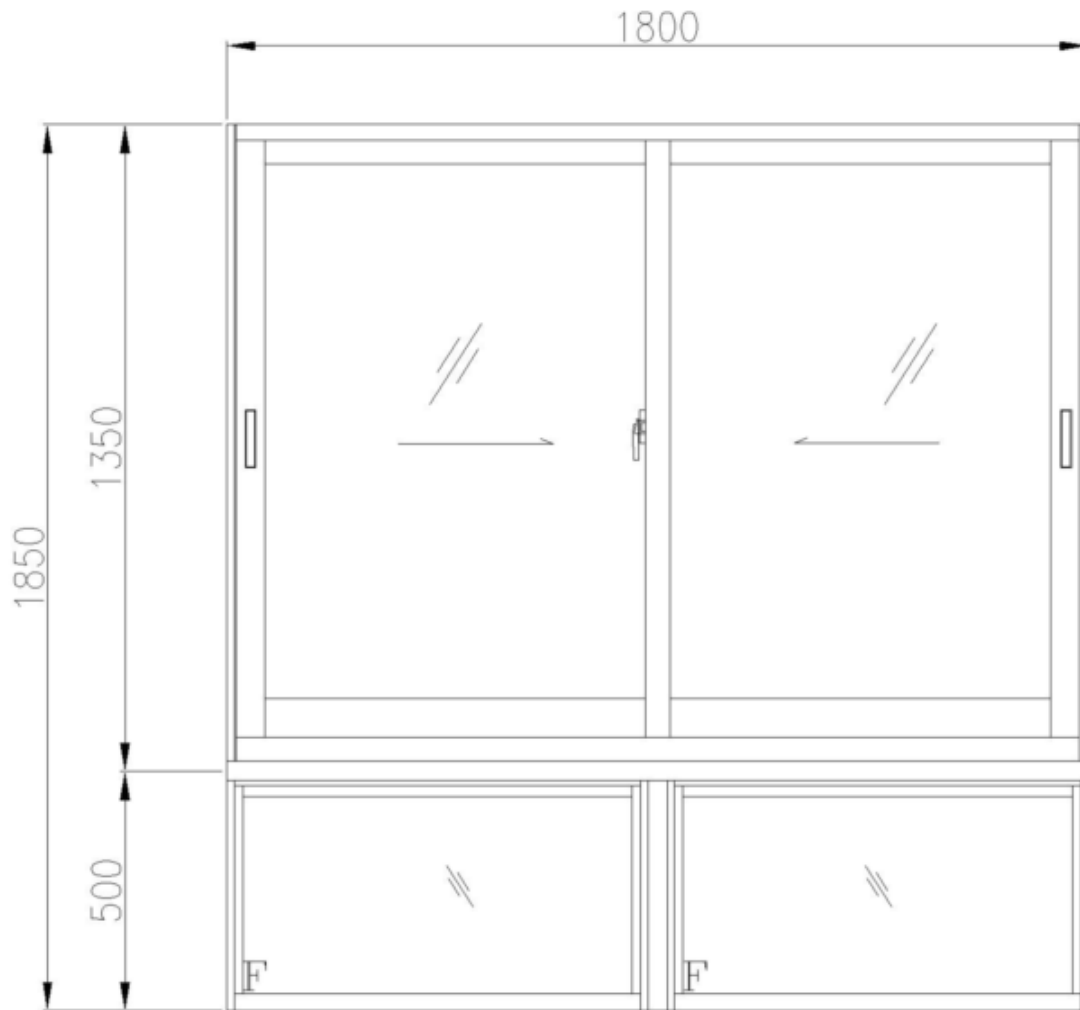
Transom - WE PLUS

Mullion - WE PLUS

Unit Price – 146 USD

VALUE ENGINEERING BY USING WE 70

Case 1: - Slider window with bottom fix



Option – 2

Condition – Fix window is in WE70 series and not in two parts (unit window)

Slider window – WE PLUS

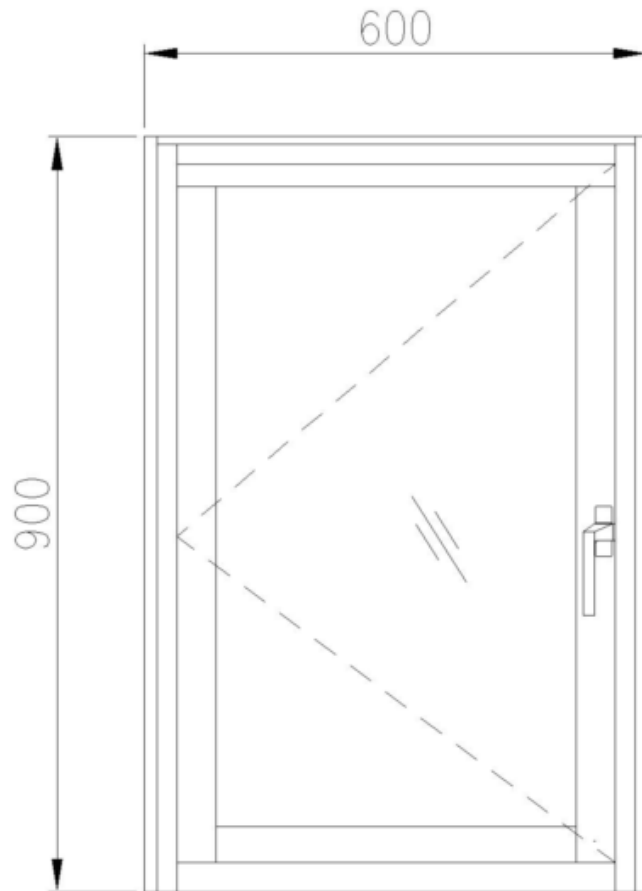
Fix window - WE 70 unit window

Transom - WE PLUS

Unit Price – 134 USD

VALUE ENGINEERING BY USING WE 70

Case 2: - Casement window (not front facing – not subjected to direct windload)



Option – 1 in WE PLUS

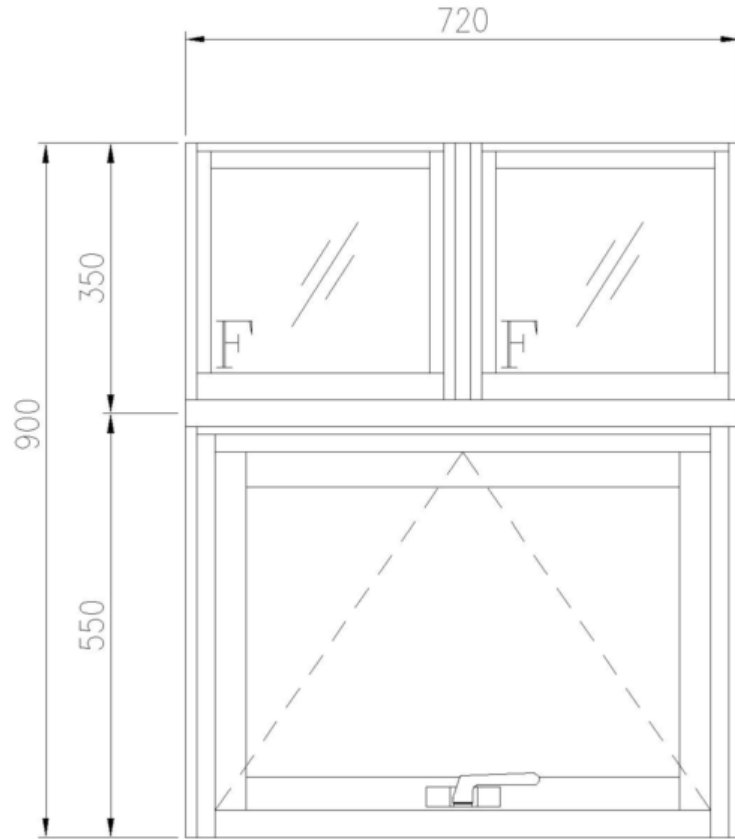
Unit Price – 63 USD

Option – 2 in WE 70

Unit Price – 42 USD

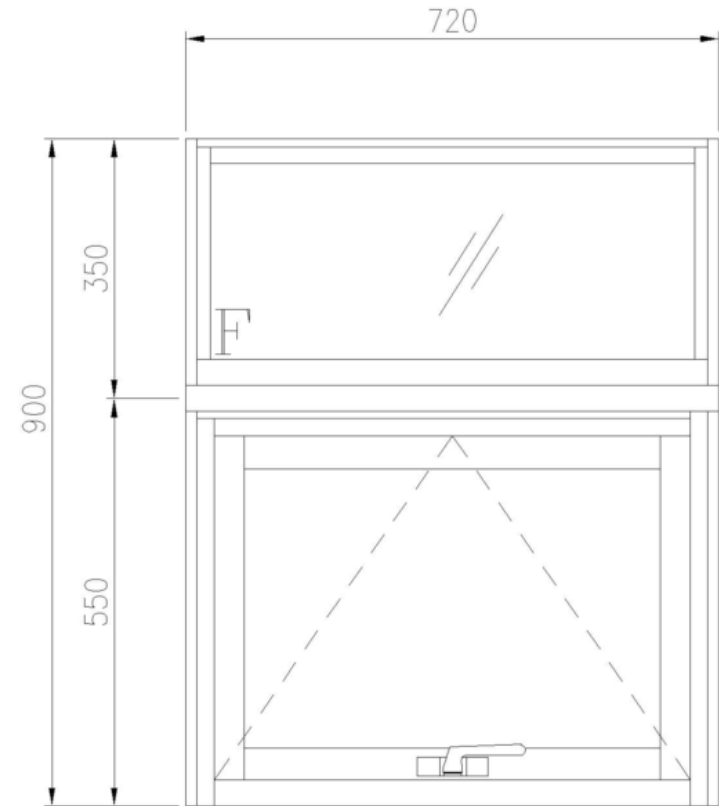
VALUE ENGINEERING BY USING WE 70

Case 3: - Typical bathroom ventilator in WE 70



Option – Top two fix

Unit Price – 87 USD



Option – Top one fix

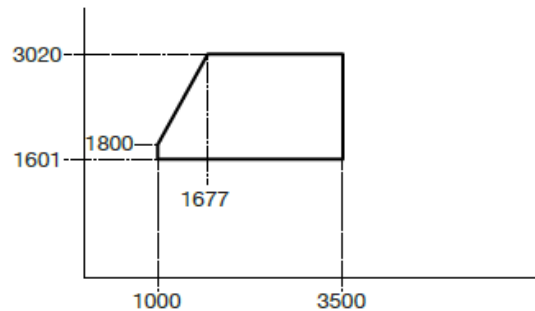
Unit Price – 70 USD

PARTITION DOOR – INTERIOR SERIES

Partition Door (2 panels on 2 tracks)



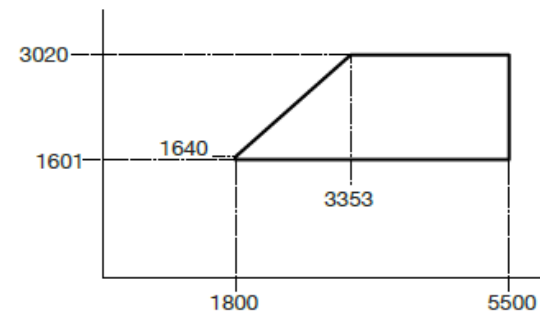
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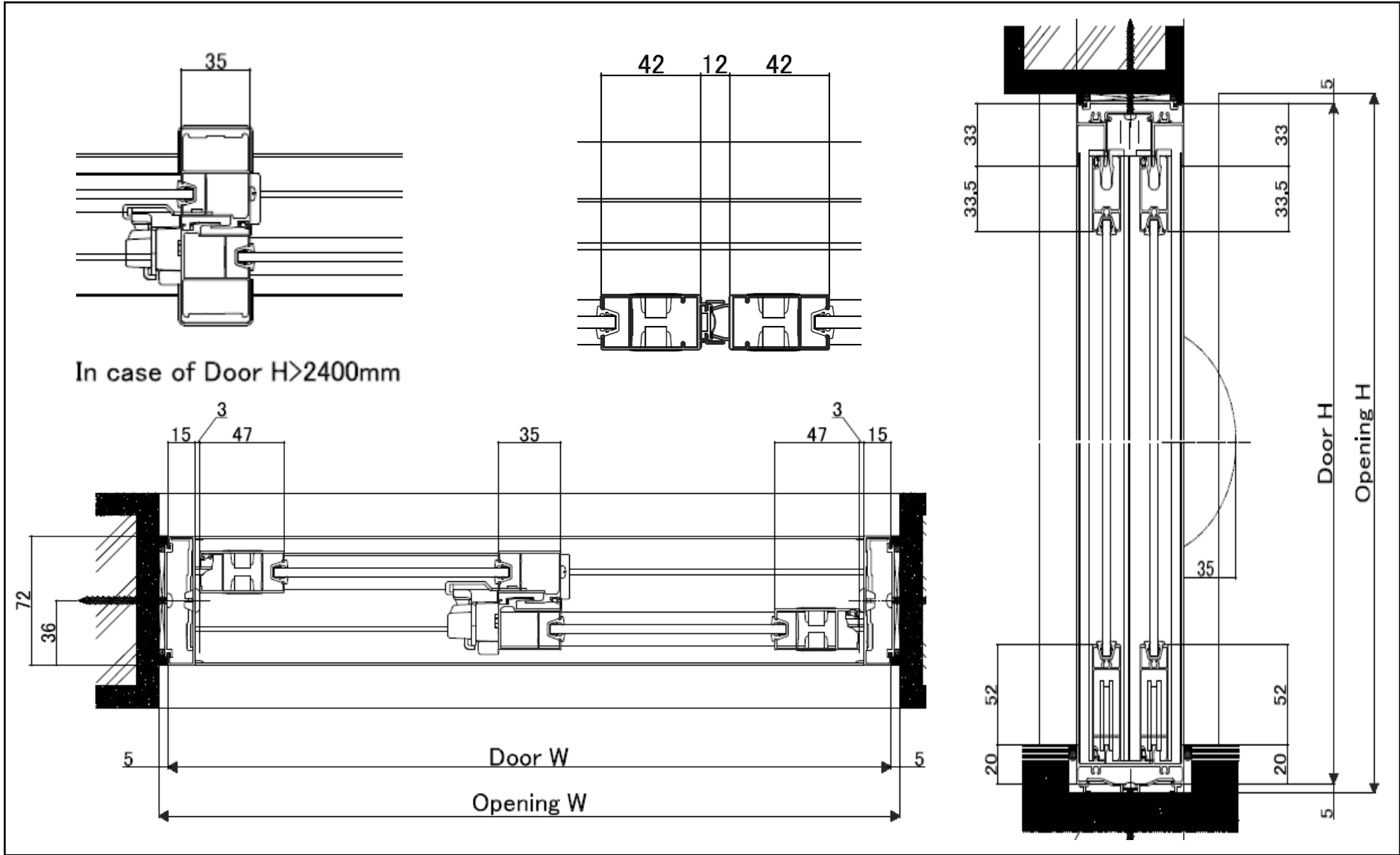
Partition Door (4 panels on 2 tracks)



- No performance determined



PARTITION DOOR – INTERIOR SERIES

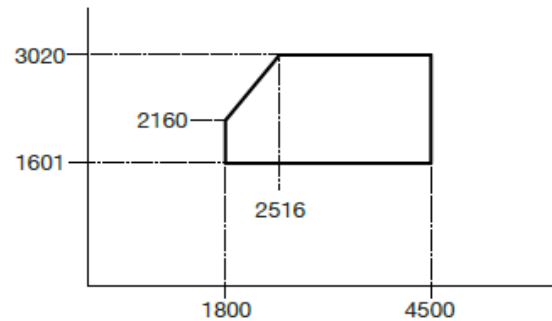


PARTITION DOOR – INTERIOR SERIES

Partition Door (3 panels on 3 tracks)



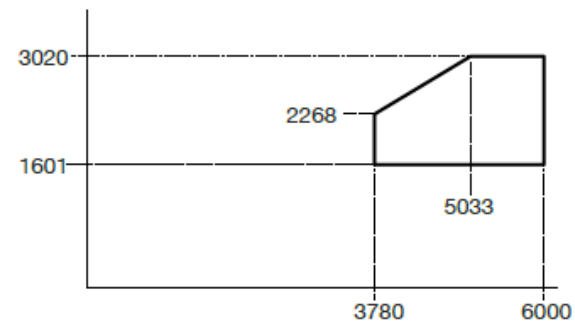
- No performance determined



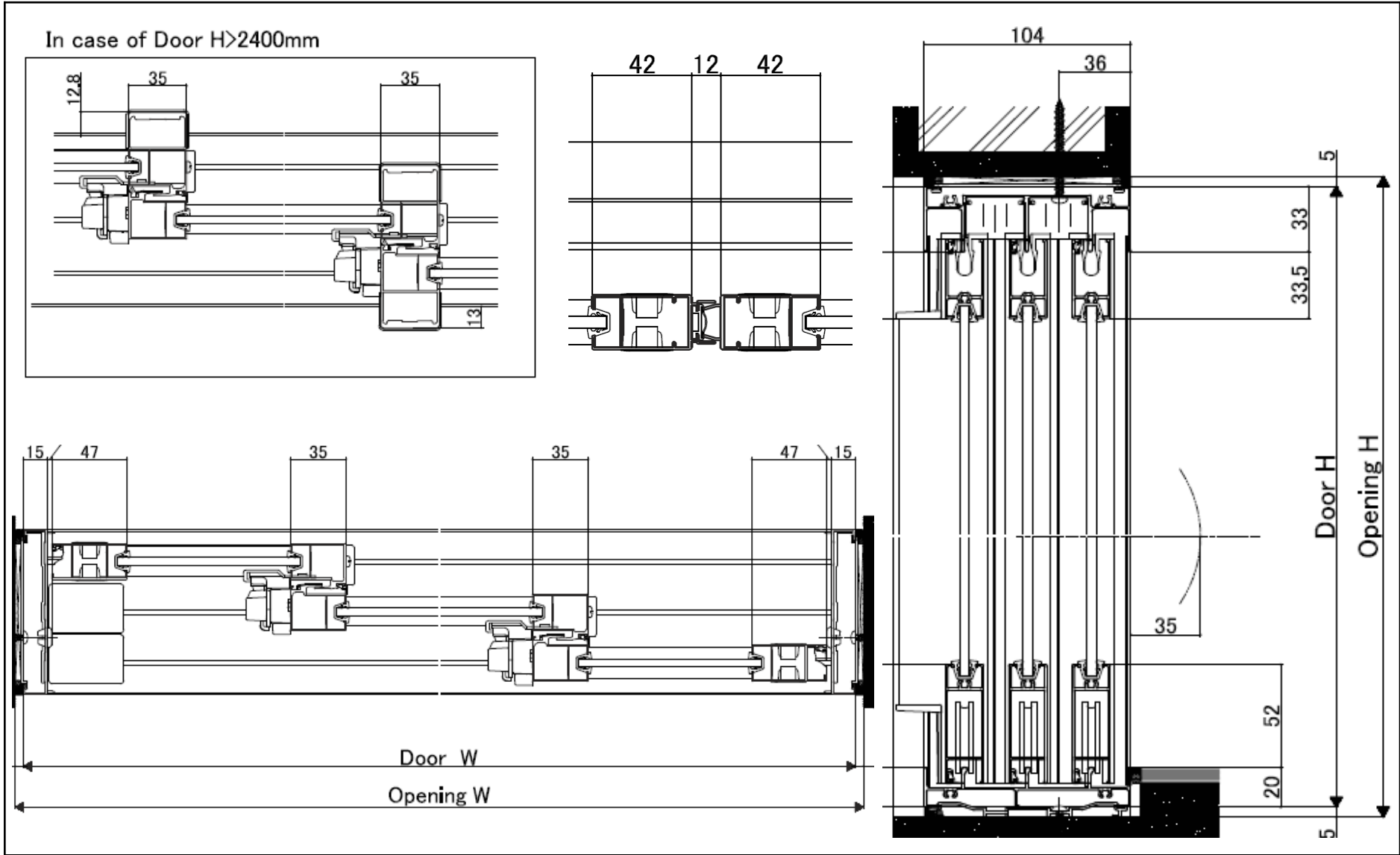
Partition Door (6 panels on 3 tracks)



- No performance determined



PARTITION DOOR – INTERIOR SERIES



THANKS