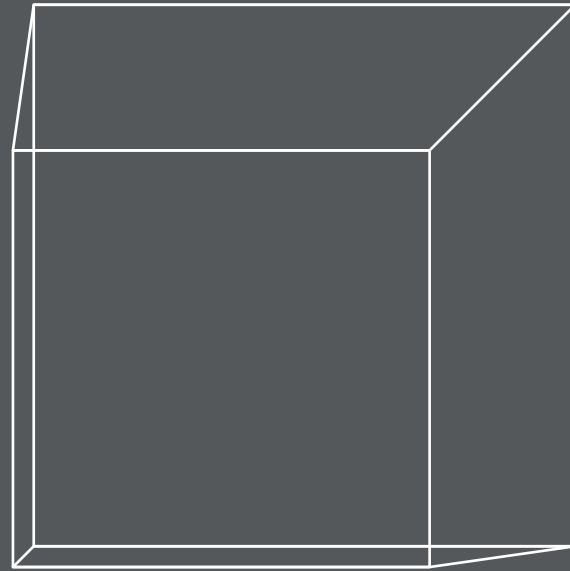
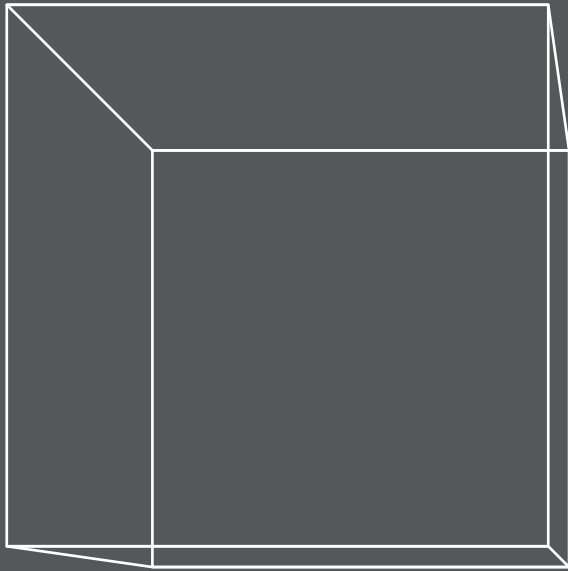
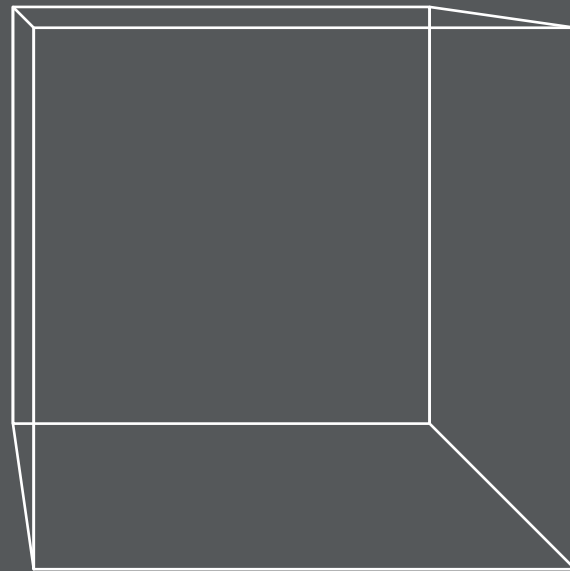
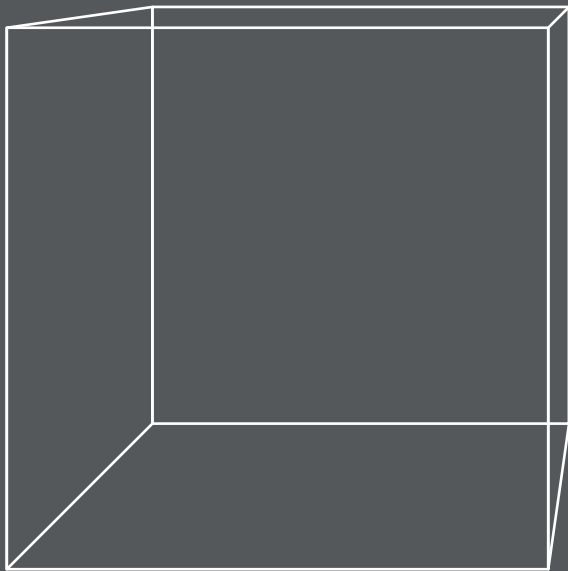


**TOSTEM**



C O N N E C T I N G   S P A C E S   O F   L I V I N G

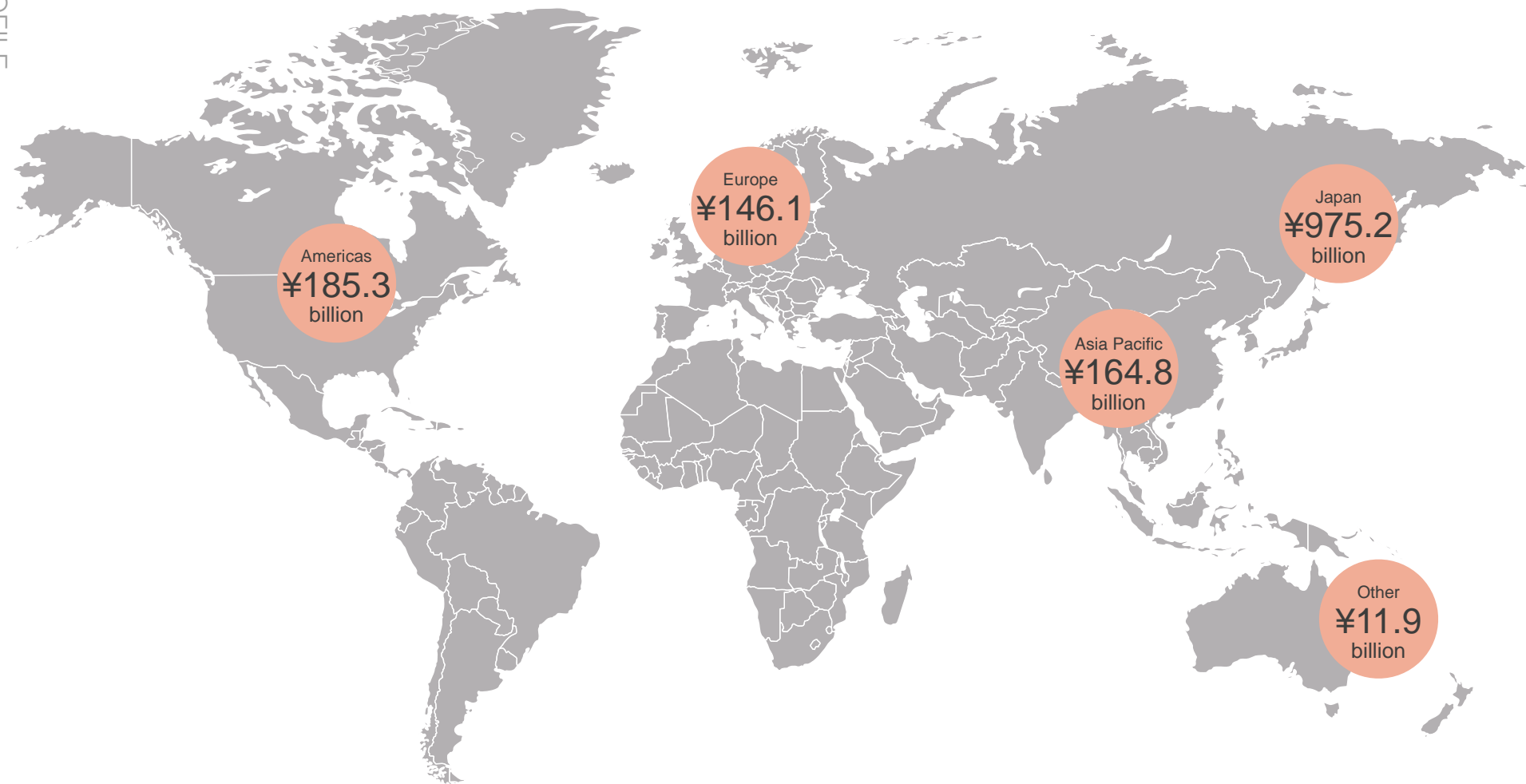


# Content

Corporate Profile	04
Connecting Spaces of Living	06
Harmony with the Environment	08
Innovation for Home & Living Inspiration	10
Design for Good Living Space	13
Quality Desired by Home Resident	14
TOSTEM Product Categories	16
Aluminum Window and Door Category	19
GRANTS Series	23
ATIS Series	49
WE Series	75
Aluminum Interior Category	97
IN16 Series	99
Entrance Door Category	119
GUESTA Series	120
Aluminum Exterior Category	137
Fence & Gate Exterior Series	138
Reference Drawings	145



Revenue  
**¥1,483.2 billion**



Business in over  
**150** COUNTRIES  
 WORLDWIDE

Production bases  
**78** FACTORIES

Employees  
 APPROX. **49,300**

Granted patents and  
 design rights  
 OVER **13,000**

Major design centers  
**6**

Supporting the daily lives  
 OVER **1 billion** PEOPLE

## Making Better Homes A Reality for Everyone, Everywhere

### LIXIL GROUP

A better home is made up of surprisingly simple things – showers and faucets to experience water in new ways; kitchens that unleash creativity; toilets that provide cleanliness and comfort; doors and windows that connect you with the world outside; interiors and exteriors that bring spaces to life; baths to escape in after a long day. We make that possible with pioneering water and housing products. We are proud that our products touch the lives of more than a billion people every day, and believe we have the potential to do so much more.

LIXIL's Purpose is the north star that guides our employees in making decisions and inspires us to become a more agile, entrepreneurial company for sustainable growth. The LIXIL Behaviors are how we engage in our work every day to realize our Purpose. Together, they form the heart of our Corporate Philosophy.

**TOSTEM**

*American  
Standard*



**INAX**





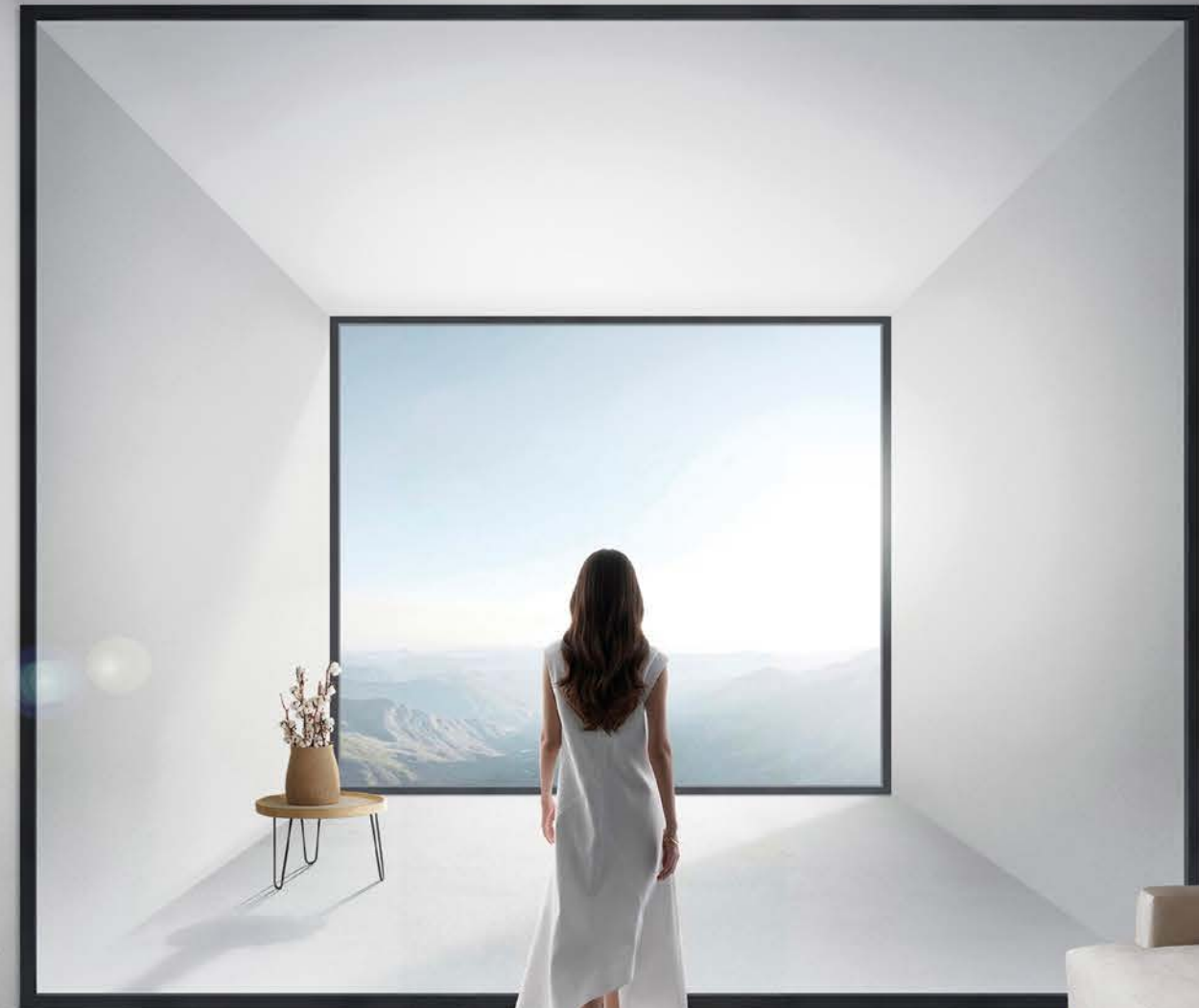
At TOSTEM, we believe a well-designed home brings comfort, clarity, and connection to everyday life. Our products are crafted to blend form and function, making living feel effortless.

From the first sketch to final assembly, we manage every step, ensuring lasting quality and consistent performance.

We're guided by a simple belief: Homes should live in harmony with nature. Innovation should enhance the everyday. Design should feel just right. And quality should be both seen and felt.

## CONNECTING SPACES OF LIVING

Rooted in Japanese wisdom, TOSTEM reimagines how spaces connect. With precise craftsmanship and modern elegance, our interiors flow in harmony, designed to align seamlessly with other TOSTEM series for a unified living experience.



Guided by our sustainable principle:

# Harmony with the Environment **PremiAL<sup>R100</sup>**

**RECYCLED LOW-CARBON ALUMINUM**

JAPAN'S FIRST 100% RECYCLED ALUMINUM

PremiAL R100 by LIXIL HOUSING TECHNOLOGY, under the TOSTEM brand, is Japan's pioneering low-carbon aluminum building material made entirely from recycled aluminum. This innovative product contributes to reducing CO<sub>2</sub> emissions and lessening the environmental impact of buildings.

**PREMIAL R100: REDEFINING SUSTAINABLE  
BUILDING MATERIALS**





Built upon our foundation:

# Innovation for Home & Living Inspiration

With people and their better quality of living at our core, we are constantly aware of how they live, by anticipating social change and needs of time. We continually pursue innovation that makes good living a reality for all.

TOSTEM's unique TEXGUARD anodized finish gives a high level of protection, alongside showing the beautiful appearance of natural Aluminum. TOSTEM offers a wide range of color variations, which allows you to enjoy its lifelong beauty, adding happiness to your lifestyle.

NATURAL WHITE

NATURAL SILVER

SHINE GRAY

AUTUMN BROWN

DUSK GRAY

NATURAL BLACK

## CERTIFICATION

JIS H 8602: 2010, JIS H 4100: 2015, TIS 218-2520 (1977), TIS 284-2560 (2017), AAMA 612, ISO 9001: 2015, ISO 14001: 2015, ISO 17025: 2018



Aluminum base material

Anodized coating

TEXGUARD layer

## BENEFIT OF TEXGUARD

**Color Retention** - TEXGUARD protects the Aluminum against harsh environmental conditions, making the color gloss stay for at least 40 years.

**Increased Hardness** - Dense coating of TEXGUARD improves hardness and provides scratch resistance for the Aluminum surface.

**Ease of Cleaning** - Dust and dirt accumulation resistance quality of TEXGUARD makes the task of cleaning the surface less effort.



Driven by our philosophy:

## Design for Good Living Space

We know that home can be and mean so much for people. We design our product to enhance the quality of a space allowing home residents to be connected, to be inspired and to feel comfortable through the harmonious experience to outside.

### L-FIT DESIGN

L-Fit is a handle design that “Fits” in with “Living Life.” This standardized design for the handles of windows and entrance doors creates a sense of uniformity and comfort in living space.

L-Fit has been recognized with multiple design awards including the prestigious German Design Award, Red Dot Award, Good Design Award and iF Design Awards.

Experience the perfect combination of design and function with TOSTEM L-Fit.





Defined by what we stand for:

# Quality Desired by Home Resident

We consider to ensure quality through the entire process and usage, from the product design development and production. With responsibility and pride, we pursue our production with a commitment to deliver the best quality for all home residents.

## QUALITY ASSURANCE

Quality assurance is at the core of TOSTEM's products. Japan is renowned for its rigorous quality control systems, which ensure that products meet international standards such as the Japanese Industrial Standard (JIS) and ASTM International. Tests include water penetration, sound insulation, air leakage, structural performance, durability, environmental testing, light irradiation, and sunshine weather testing.



## PRE-ENGINEERED SYSTEM

TOSTEM's products are designed, manufactured, and assembled using a pre-engineered system that strictly adheres to quality control standards. This system incorporates extrusion dies, aluminum billets, coatings, and hardware assembly processes that are all performed in TOSTEM's factory. The primary advantage of this system is the ability to achieve consistent quality in window production. With just a simple screwdriver, anyone can repeatedly build the same high-quality window system.





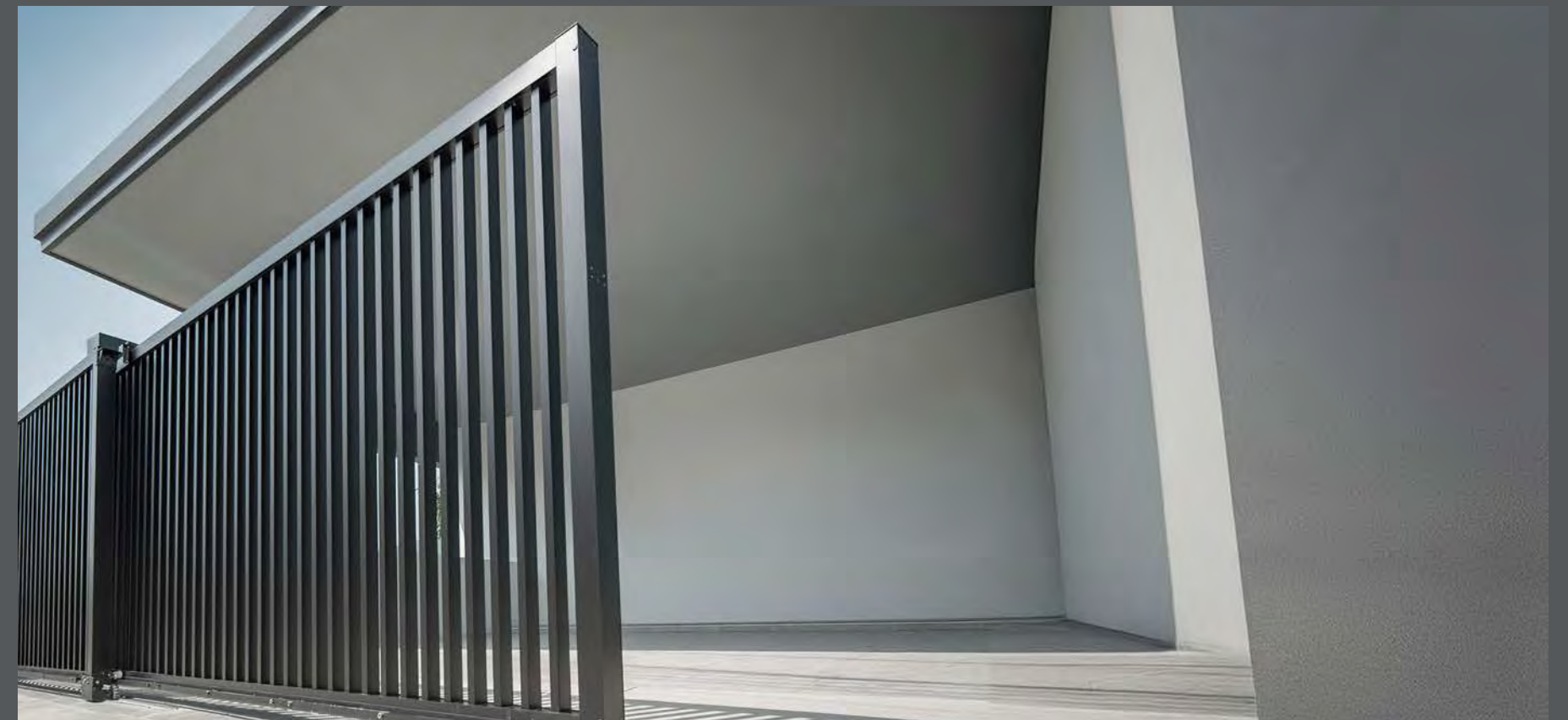
## ALUMINUM WINDOW & DOOR Category



## ALUMINUM INTERIOR Category



## ENTRANCE DOOR Category



## ALUMINUM EXTERIOR Category






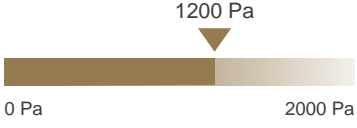




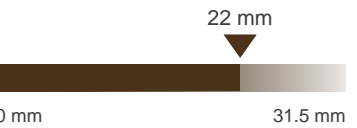

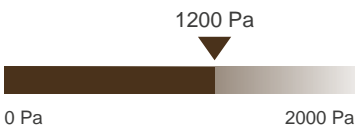
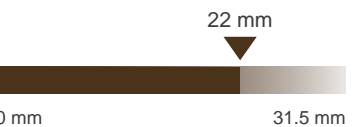
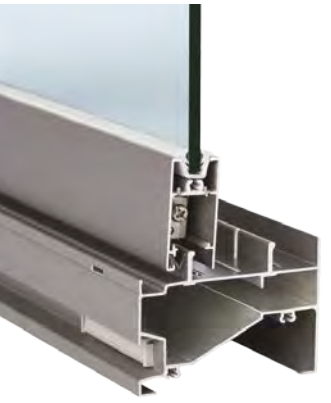



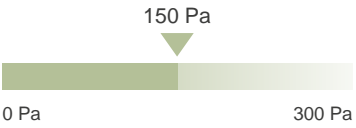
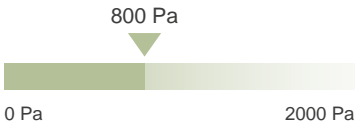

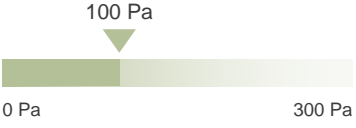






## ALUMINUM WINDOW & DOOR Category



Aluminum Window & Door Category

		FRAME DEPTH / HEIGHT OF SILL	WATER TIGHTNESS PERFORMANCE	WIND LOAD PERFORMANCE	GLASS APPLICATION
<div>GRANTS SERIES</div> <div></div>	GRANTS PLUS	Frame depth : 101.6 / 120 / 178 mm Height of sill : 50 mm ASTM Rating			
	GRANTS	Frame depth : 101.6 / 120 / 178 mm Height of sill : 50 mm JIS Rating			
<div>ATIS SERIES</div> <div></div>	ATIS PLUS	Frame depth : 88 / 131.5 mm Height of sill : 55 mm ASTM Rating			
	ATIS	Frame depth : 88 / 131.5 mm Height of sill : 55 mm JIS Rating			
<div>WE SERIES</div> <div></div>	WE PLUS	Frame depth : 72 / 104 mm Height of sill : 35 mm / 50 mm ASTM Rating			
	WE 70	Frame depth : 72 / 104 mm Height of sill : 35 mm JIS Rating			
	WE 40	Frame depth : 41 mm Height of sill : 35 mm JIS Rating			



## GRANTS Series

### MASTERING THE ART OF LIVING SPACE

GRANTS Series is designed and engineered to redefine boundary of living space. Unbound the view of the world with panoramic doors. With seamless and innovative designs that allow you to own the breathtaking view of the world.





# UNIQUE FEATURES



AWNING WINDOW



FIXED WINDOW



CASEMENT WINDOW



## A PERFECT BALANCE OF LIFE'S PERSPECTIVE

Symmetrical frame design for perfect balance of artistic perspective.



## PERFECT FIT

L-Fit is designed to fit every living style. Create for the most comfort feeling that comes with advanced design and function.

## FLAT RAIL SLIDING

Bonding harmony with the environment, GRANTS Flat Rail Sliding Doors come in vast size up to 4.5 meters high that allow you to own a breathtaking view.



HEIGHT UP TO 4.5 METERS



GRANTS



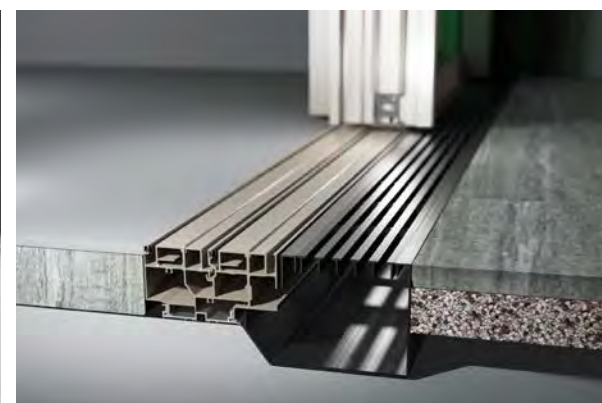
CONVENTIONAL

## ABSOLUTE SEAMLESSNESS

Sophisticate design that maximize your view with overlapping design that visually reduce stile by half.



\*Only available for GRANTS series



## BUILD FOR BOUNDLESS

Flat sill rail designed for cleanness and smoothest transition between inside and outside.



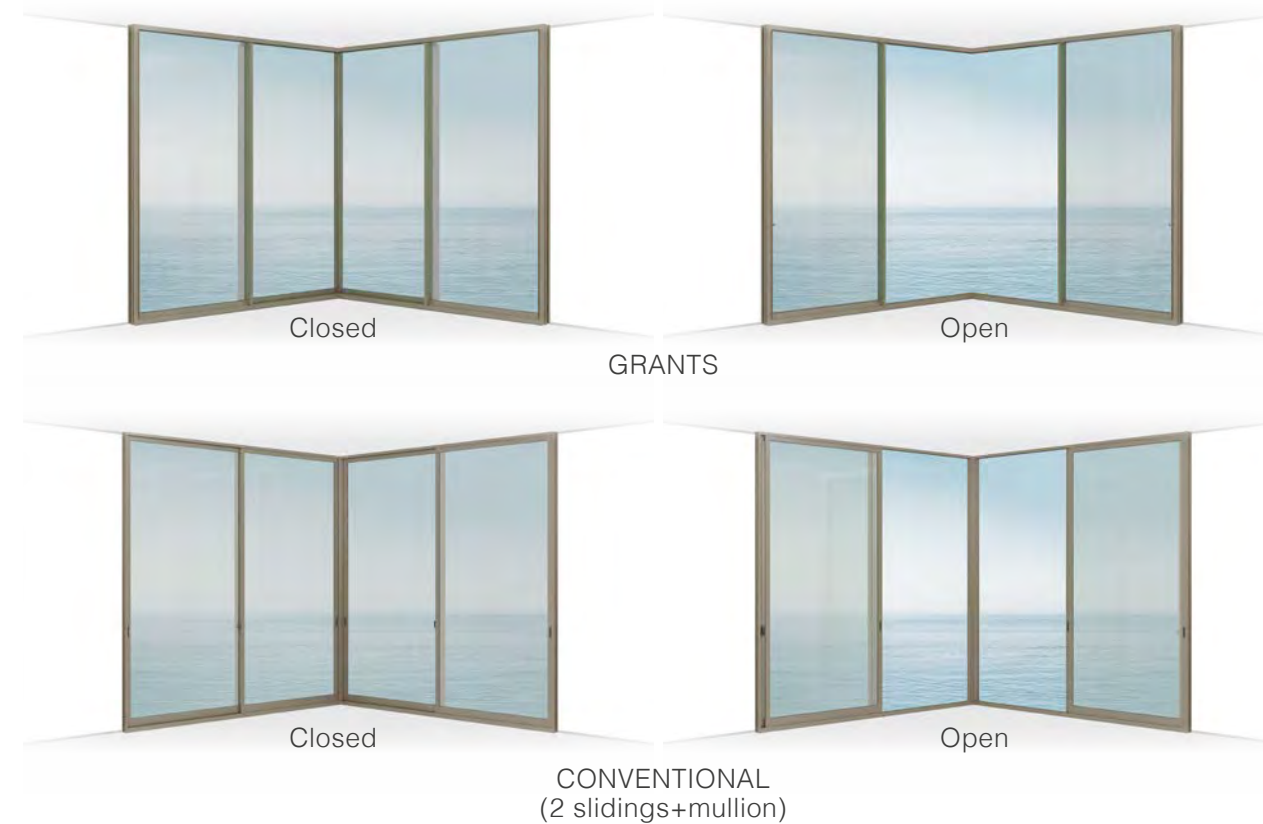
## CORNER SLIDING

An innovative solution creates unrestricted panoramic views and the ultimate living space with an open corner.

## LIMITLESS BEAUTY OF YOUR SPACE.

GRANTS corner sliding doors allow you to open an entire corner of a room to the outside. Perfect for open plan living, maximizing light for spacious space.

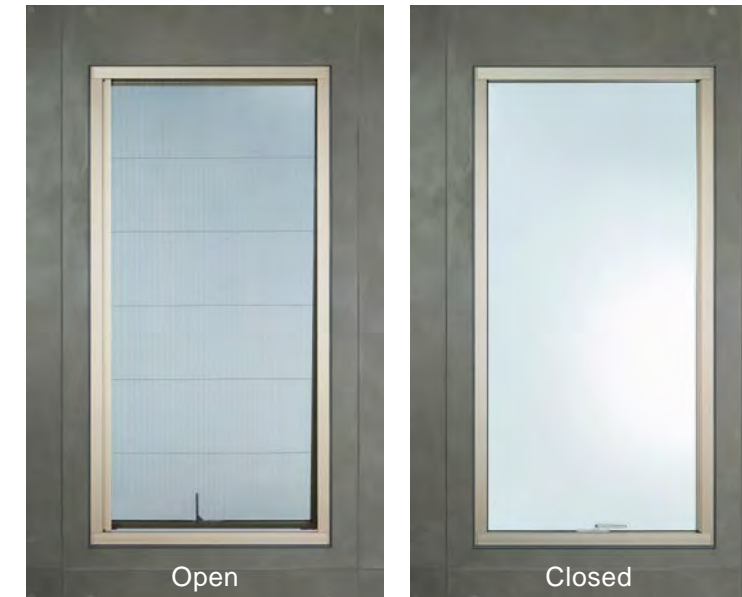
\*Only available for GRANTS series



## INTEGRATED SCREEN SYSTEM

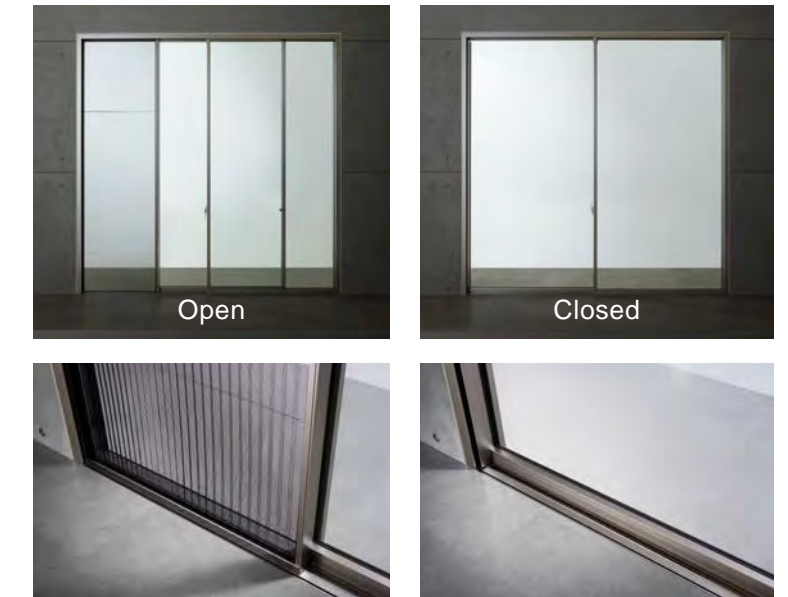
### LESS FOR MORE

Integrated insect screen system combines the best functions to provide obstruction free vision for better view. When recessed, the screen is completely embedded in the frame.



### FOR CASEMENT / AWNING / SWING DOOR

The screen is integrated into the inner rail of the window. It will be supplied with a maximum height of 3.5 m and completely covers the width of the windows.



### FOR SLIDING DOORS

The screen is integrated into the inner or outer rail of the door. It will be supplied with a maximum height of 4.5 m and width of 80 cm.



# GRANTS PLUS

Expansive views. Elevated living. Designed for mid to high-rise buildings, GRANTS PLUS maximizes glass surface for breathtaking panoramas. Innovation meets sophistication-redefining aluminum windows and doors at every level.



## SPECIFICATIONS

SPECIFICATIONS	GRANTS PLUS	
	FRAME DEPTH	101.6 mm 120 mm (2 tracks sliding) 178 mm (3 tracks sliding)
HEIGHT OF SILL	50 mm	

## PERFORMANCES

PERFORMANCES	WIND PRESSURE	WATER TIGHTNESS	AIR TIGHTNESS	NOISE INSULATION
	2000PA (ASTM E330)	300PA (ASTM E331)	10.7M³/H.M² (ASTM E283)	T-1: 25DB (JIS A 1416)

## COLORS

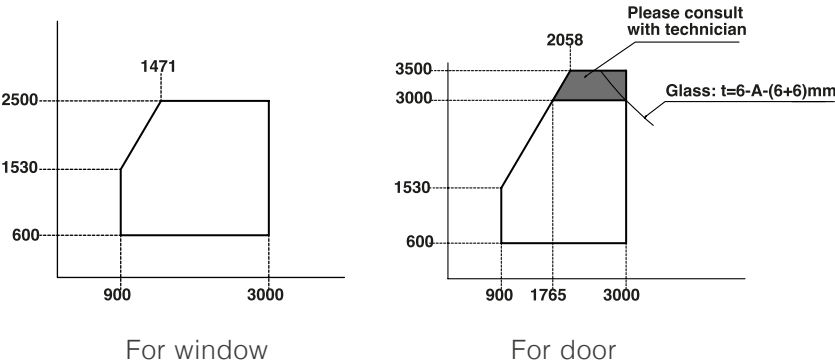
NATURAL WHITE	NATURAL SILVER	SHINE GRAY	AUTUMN BROWN	DUSK GRAY	NATURAL BLACK
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# GRANTS PLUS

## SLIDING (2P2T)



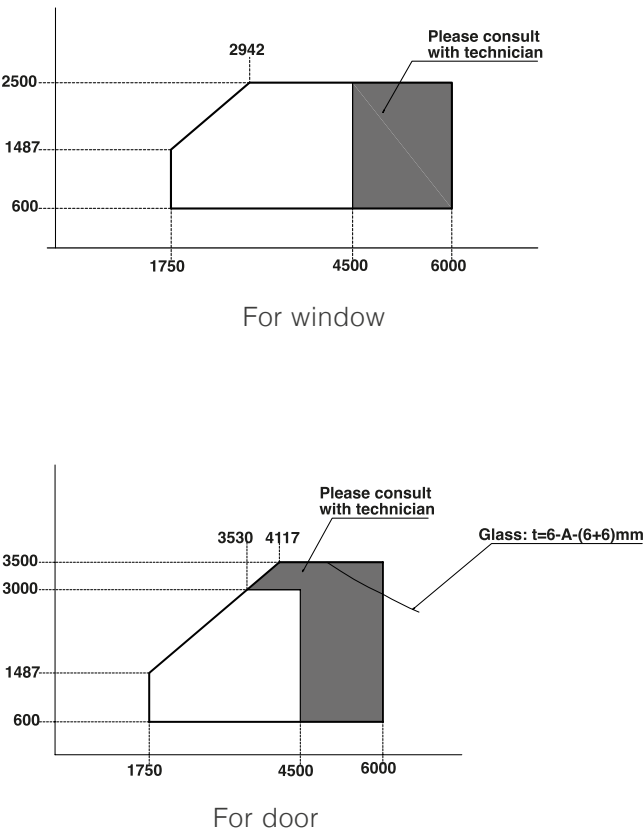
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Select panel position from L/R
- Single slider (FS, SF) available
- Glazing finish
  - ▮ 8 - 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant



## SLIDING (4P2T)



- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Select from (SSSS, FSSF)
- Glazing finish
  - ▮ 8 - 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant

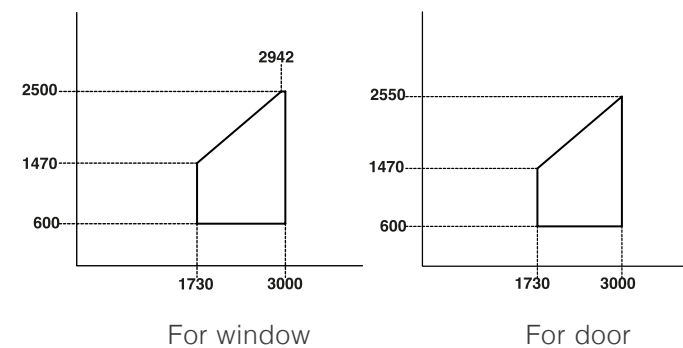


## GRANTS PLUS

## SLIDING (3P2T) SFS



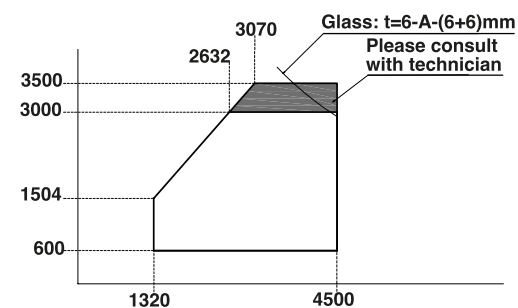
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - Other glass: Sealant



## SLIDING (3P3T)



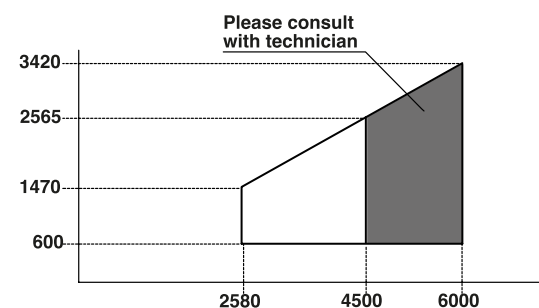
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Select panel position from L/R
- Select from (SSS, FSS, SSF)
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - Other glass: Sealant



## SLIDING (6P3T)



- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Select from (SSSSS, FSSSSF)
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - Other glass: Sealant

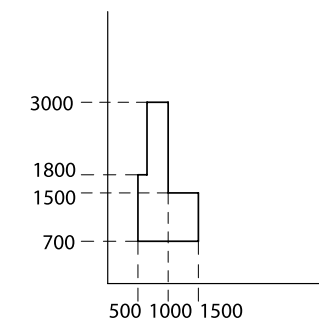


## GRANTS PLUS

## AWNING WINDOW



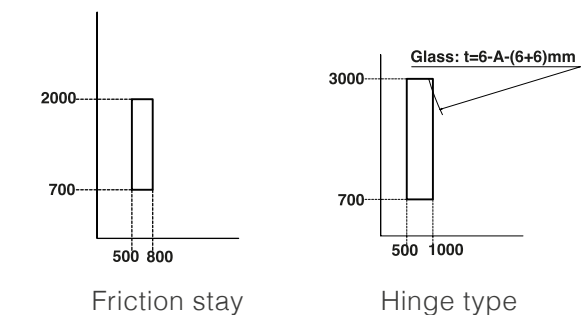
- Frame depth: 101.6 mm
- L-fit aluminum diecast handle
- Pleated insect screen available
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



## CASEMENT WINDOW



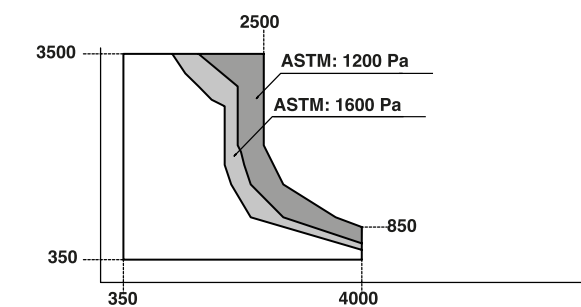
- Frame depth: 101.6 mm
- L-fit aluminum diecast handle
- Pleated insect screen available
- Select from L/R
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



## FIXED WINDOW



- For oversize fixed windows, please consult with our technician
- Glazing finish
  - 8 - 13.52 mm: Glazing bead
  - 25 - 31.52 mm: Glazing bead
  - Other glass: Sealant



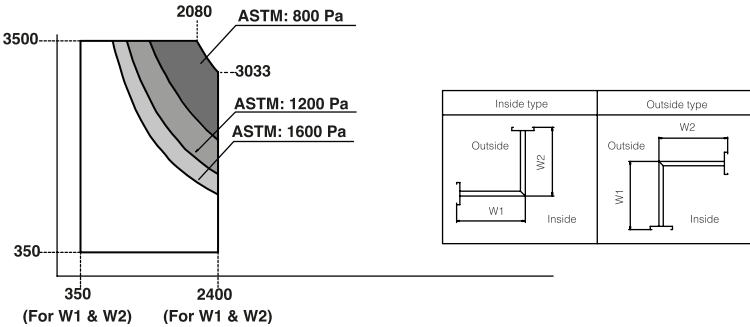


# GRANTS PLUS

## CORNER FIXED WINDOW



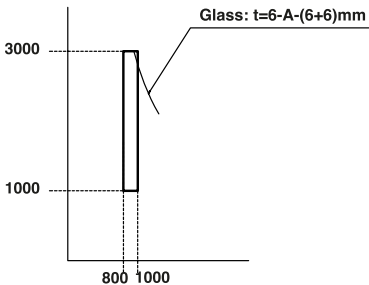
- Frame depth: 101.6 mm
- Only available in single glass
- Both in/outward corners available
- Glazing finish: Sealant



## OUT SWING DOOR (SINGLE LEAF)



- Frame depth: 101.6 mm
- Door closer NOT available
- Select from L/R
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



## UNIT COMBINATION WINDOW



BOTTOM WINDOWS	TOP WINDOWS			
	SINGLE AWNING	SINGLE CASEMENT	SINGLE FIXED	SLIDING
SINGLE AWNING			●	
SINGLE CASEMENT			●	
SWING DOOR			●	
SINGLE FIXED	●	●	●	●
DOUBLE FIXED				●





# GRANTS

Crafted for low-rise residences, GRANTS redefines living spaces with expansive glass panels, seamless lines, and a refined aesthetic. A perfect harmony of innovation and elegance, framing your home with timeless design and unobstructed views.



## SPECIFICATIONS

SPECIFICATIONS	GRANTS		GRANTS FLAT RAIL & CORNER SLIDING DOOR
	FRAME DEPTH	101.6 mm 120 mm (2 tracks sliding) 178 mm (3 tracks sliding)	120 mm (2 tracks sliding) 178 mm (3 tracks sliding)
HEIGHT OF SILL	50 mm		

## PERFORMANCES

PERFORMANCES	WIND PRESSURE	WATER TIGHTNESS	AIR TIGHTNESS	NOISE INSULATION
	GENERAL GRANTS PRODUCT 500PA - 1200PA (JIS A 1515)	W-3: 250PA (JIS A 1517)	A-4: 2M³/H.M² (JIS A 1516)	T-1: 25DB (JIS A 1416)
FLAT RAIL SLIDING	500PA - 1200PA (JIS A 1515)	W-2: 150PA (JIS A 1517)	A-4: 2M³/H.M² (JIS A 1516)	T-1: 25DB (JIS A 1416)
CORNER SLIDING				

## COLORS

	NATURAL WHITE		NATURAL SILVER		SHINE GRAY		AUTUMN BROWN		DUSK GRAY		NATURAL BLACK
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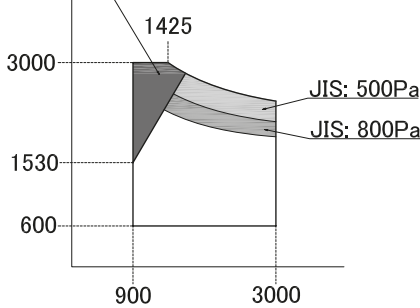
# GRANTS

## SLIDING (2P2T)



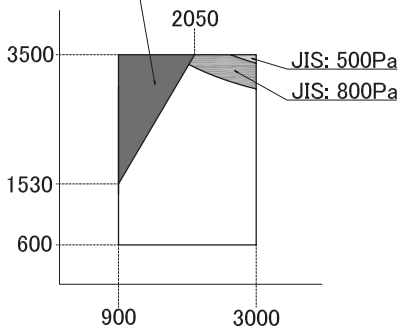
- Frame depth: 120 mm
- L-fit aluminum diecast handle (optional)
- Select panel position from L/R
- Pleated insect screen (optional)
- Single slider (FS, SF) available
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm : Glazing channel
  - Other glass: Sealant

Please consult with technician



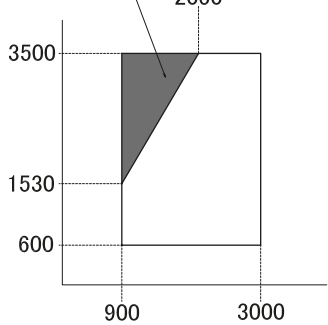
TYPE-A

Please consult with technician



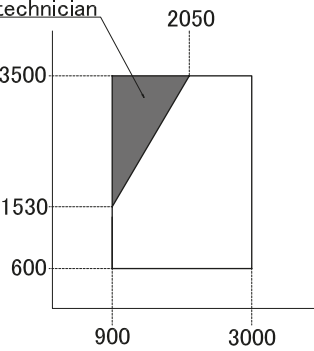
TYPE-B

Please consult with technician



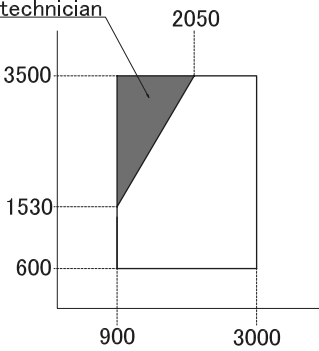
TYPE-C

Please consult with technician



TYPE-D

Please consult with technician



TYPE-E

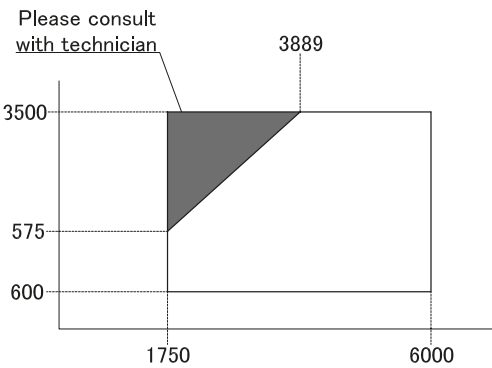
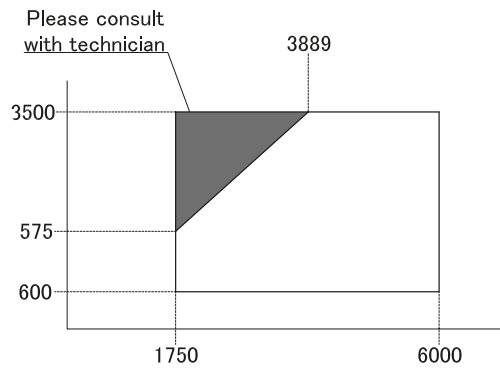
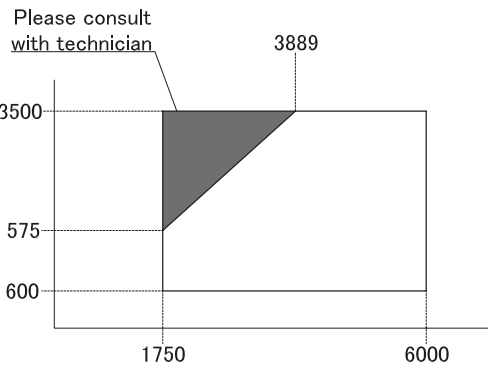
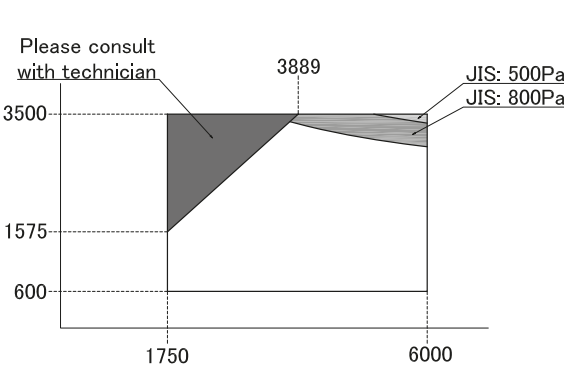
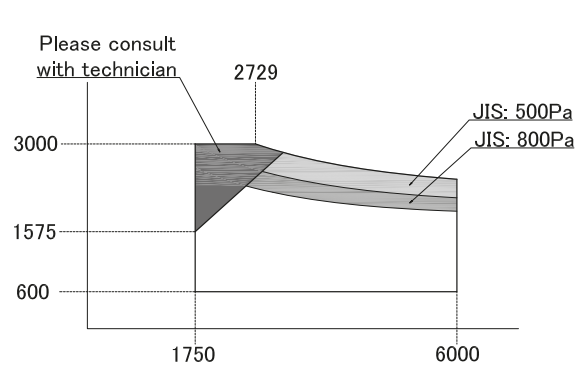


# GRANTS

## SLIDING (4P2T)



- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSS, FSSF)
- Select from panel type A to E
- Glazing finish
  - ▮ 8 - 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant

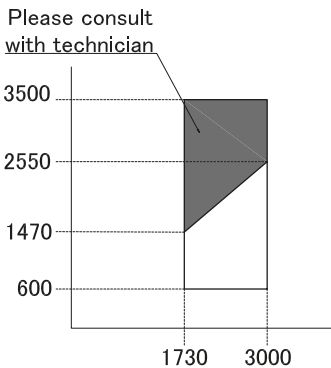
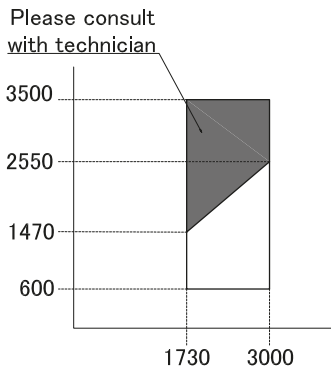
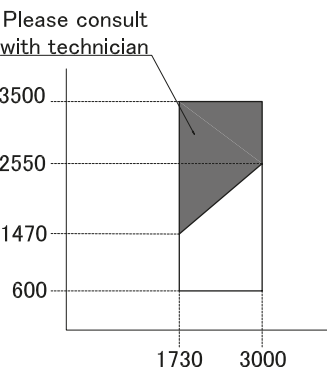
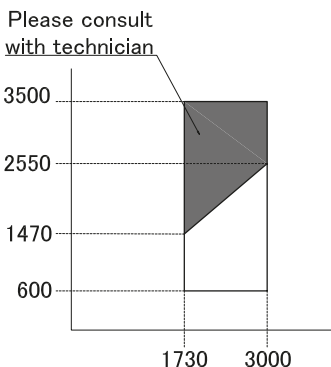
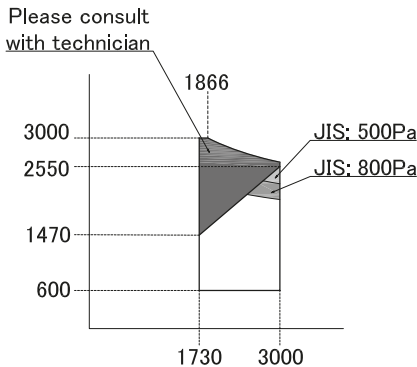


# GRANTS

## SLIDING (3P2T) SFS



- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from panel type A to E
- Glazing finish
  - ▮ 8 to 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant

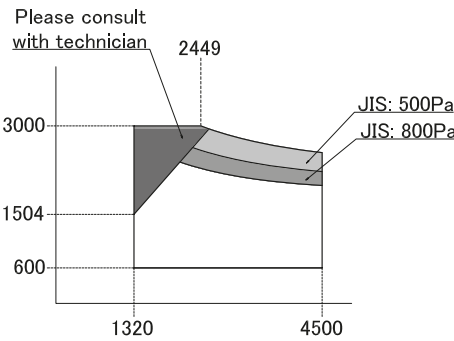


# GRANTS

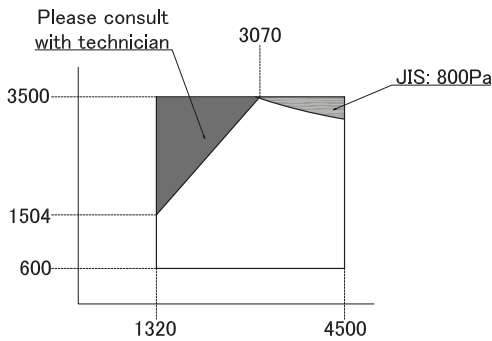
## SLIDING (3P3T)



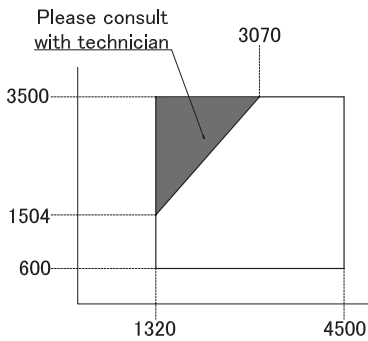
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select panel position from L/R
- Select from (SSS, FSS, SSF)
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



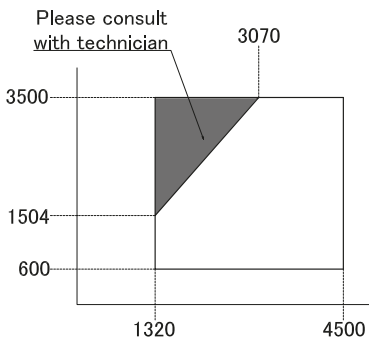
TYPE-A



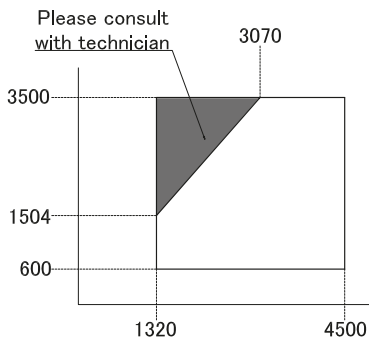
TYPE-B



TYPE-C



TYPE-D



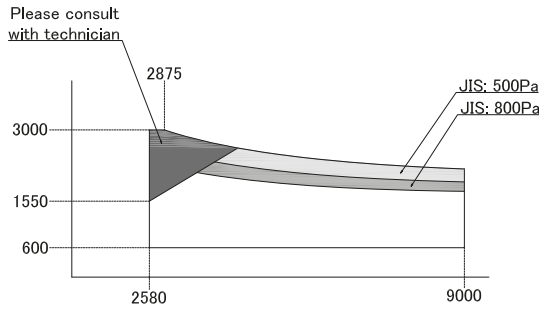
TYPE-E

# GRANTS

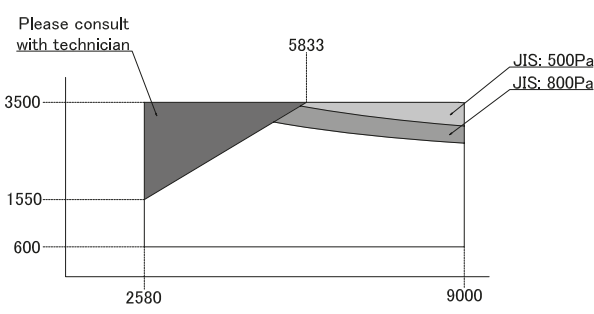
## SLIDING (6P3T)



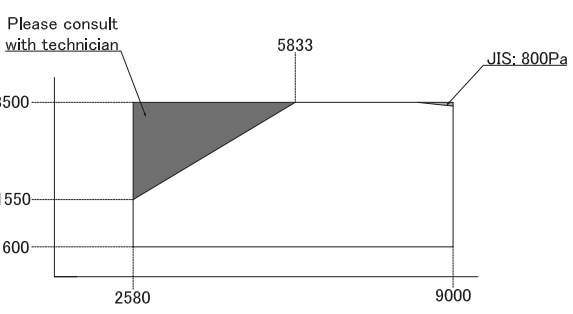
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSSSS, FSSSSF)
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



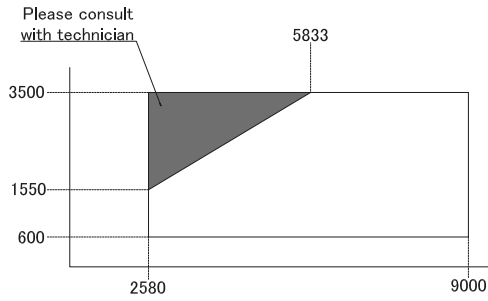
TYPE-A



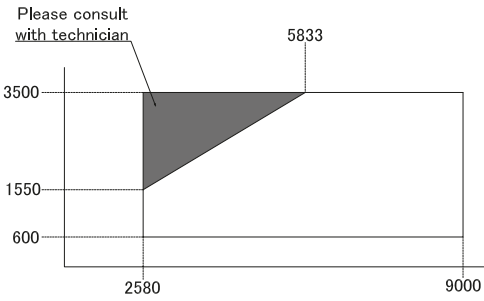
TYPE-B



TYPE-C



TYPE-D



TYPE-E

# GRANTS

## FLAT RAIL SLIDING (2P2T)



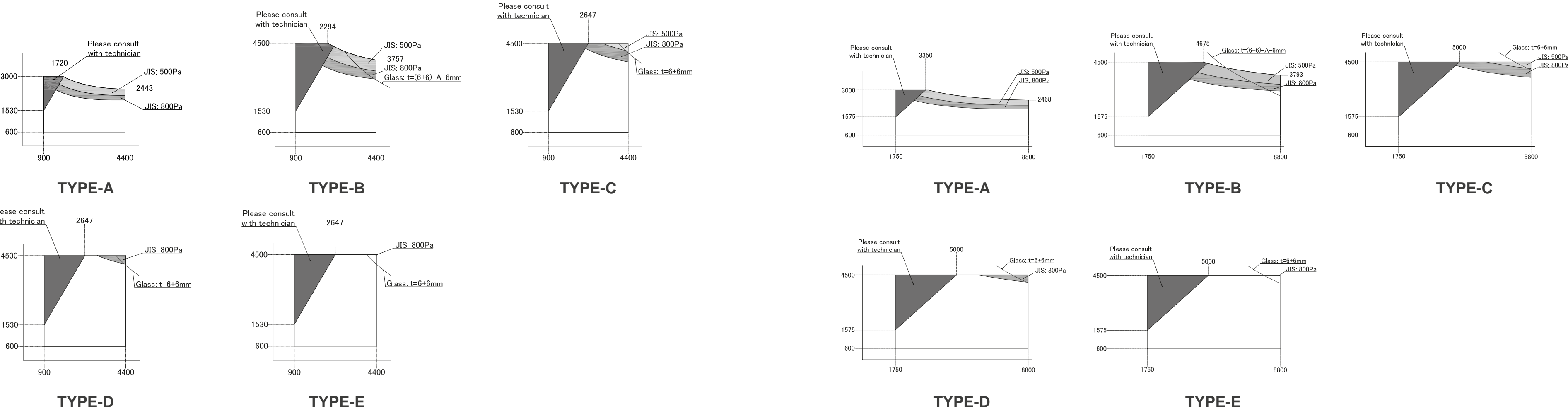
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select panel position from L/R
- Single slider (FS, SF) available
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant

# GRANTS

## FLAT RAIL SLIDING (4P2T)



- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSS, FSSF)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant

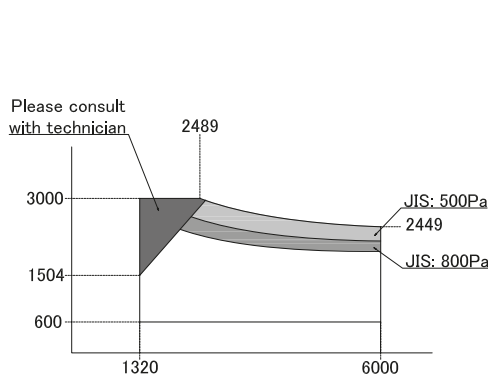


# GRANTS

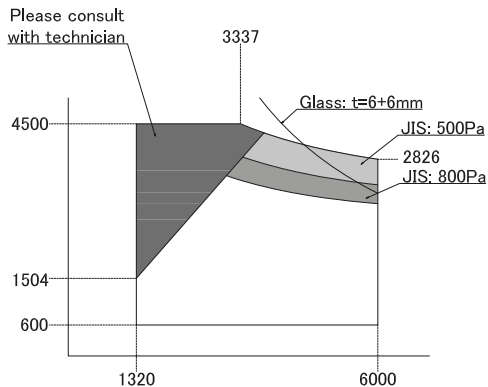
## FLAT RAIL SLIDING (3P3T)



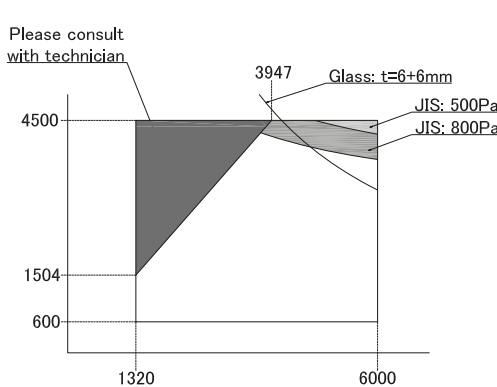
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSS, FSS, SSF)
- Select from panel type A to E
- Glazing finish
  - ▮ 8 to 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant



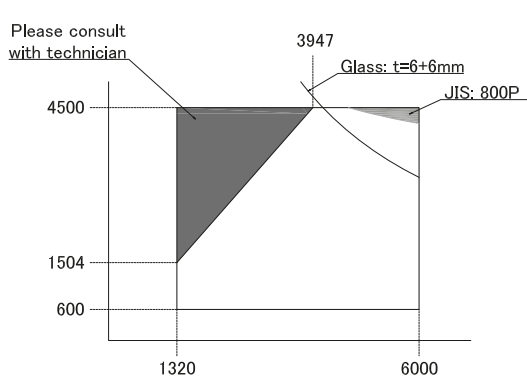
TYPE-A



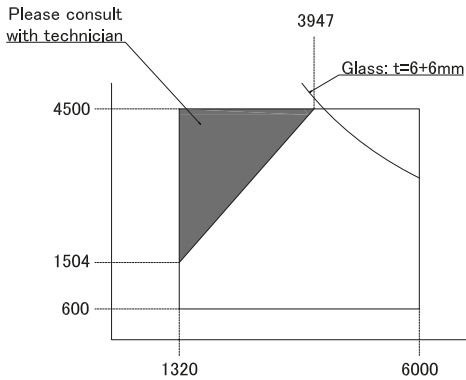
TYPE-B



TYPE-C



TYPE-D



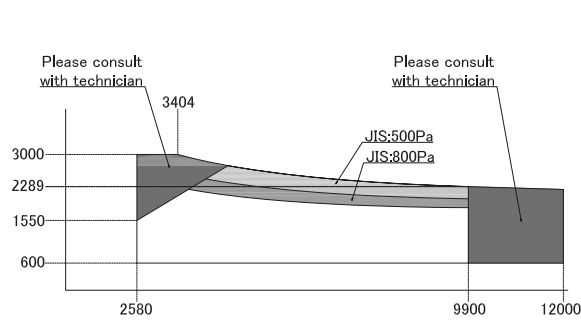
TYPE-E

# GRANTS

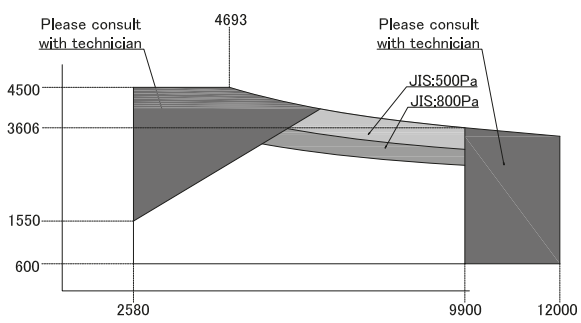
## FLAT RAIL SLIDING (6P3T)



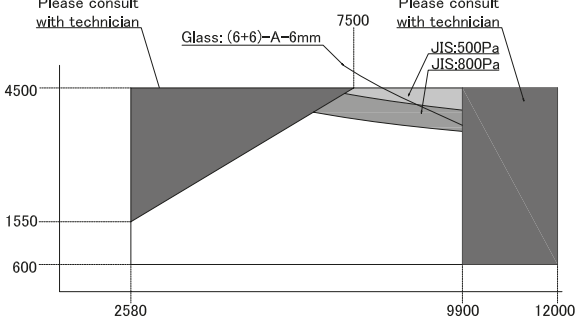
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSSSS, FSSSSF)
- Select from panel type A to E
- Glazing finish
  - ▮ 8 to 13.52 mm: Glazing channel
  - ▮ Other glass: Sealant



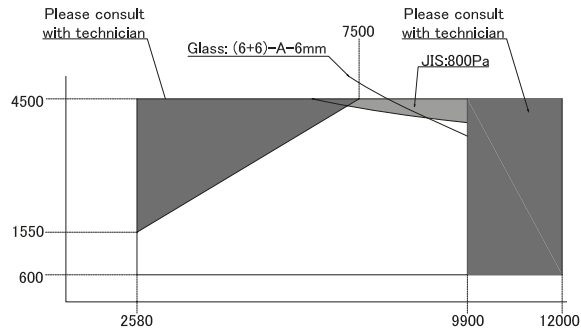
TYPE-A



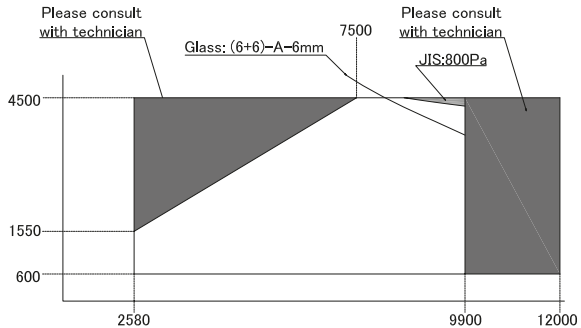
TYPE-B



TYPE-C



TYPE-D



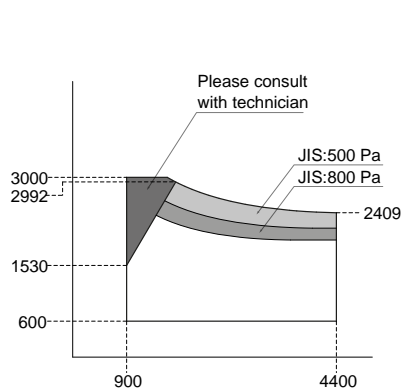
TYPE-E

# GRANTS

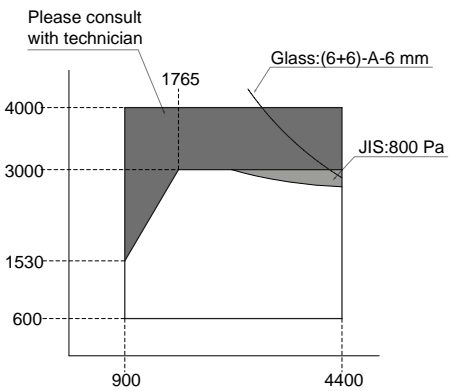
## FLAT RAIL CORNER SLIDING (2P2T + 2P2T)



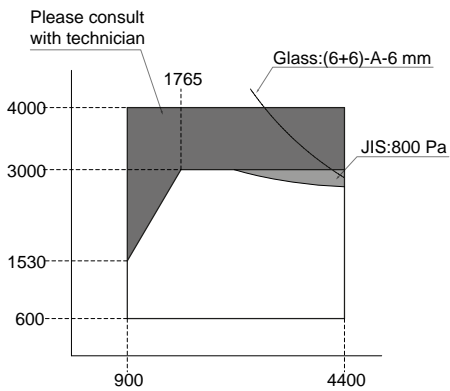
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from in/outward
- Select from (SS+SS, FS+SF)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant



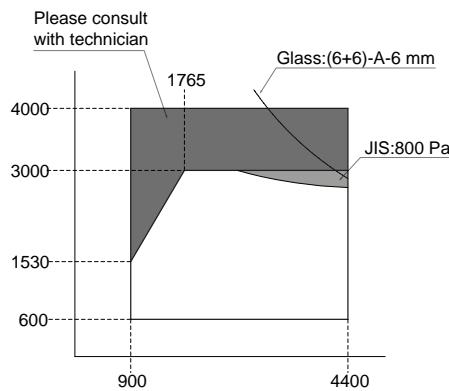
TYPE-A



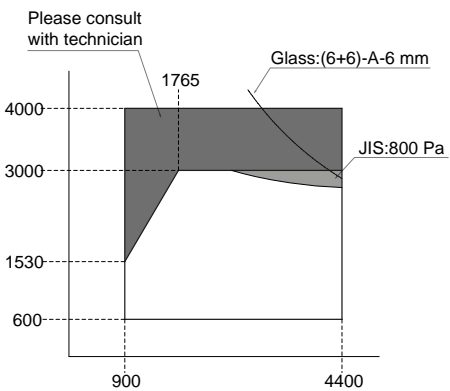
TYPE-B



TYPE-C



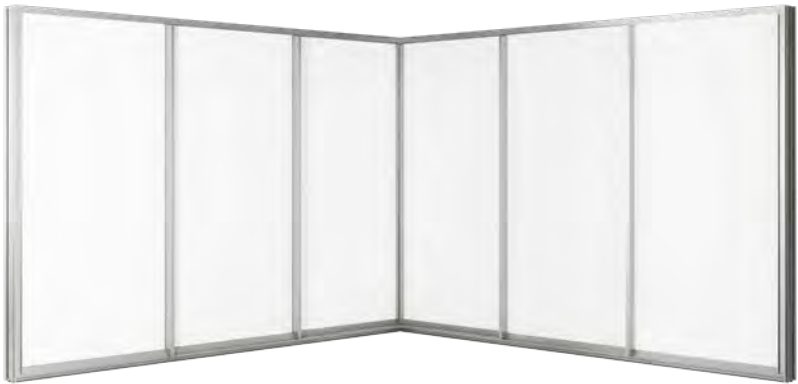
TYPE-D



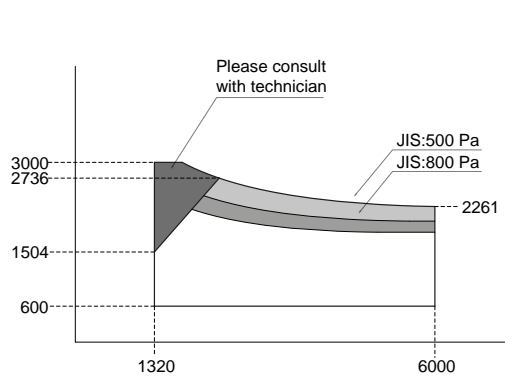
TYPE-E

# GRANTS

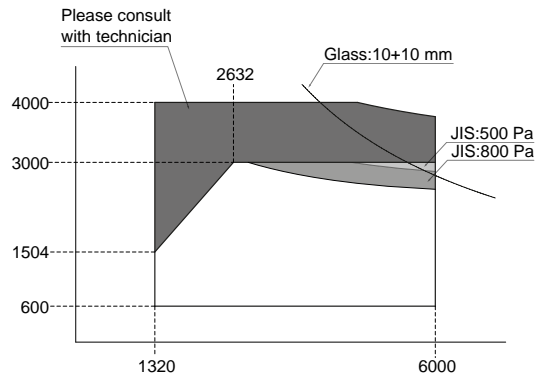
## FLAT RAIL CORNER SLIDING (3P3T + 3P3T)



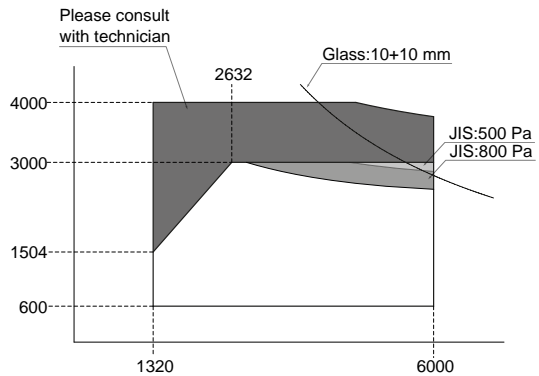
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from in/outward
- Select from (SSS+SSS, FSS+SSF)
- 2P3T + 3P3T also available
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant



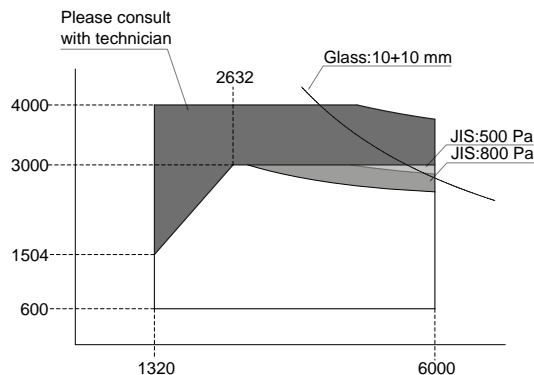
TYPE-A



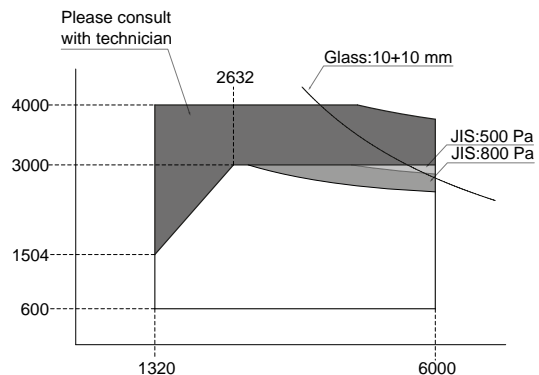
TYPE-B



TYPE-C



TYPE-D



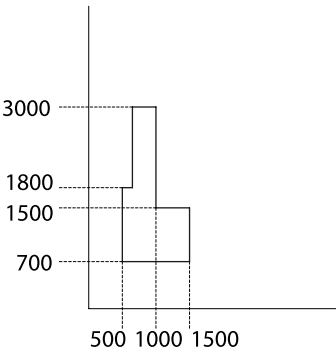
TYPE-E

GRANTS

AWNING WINDOW



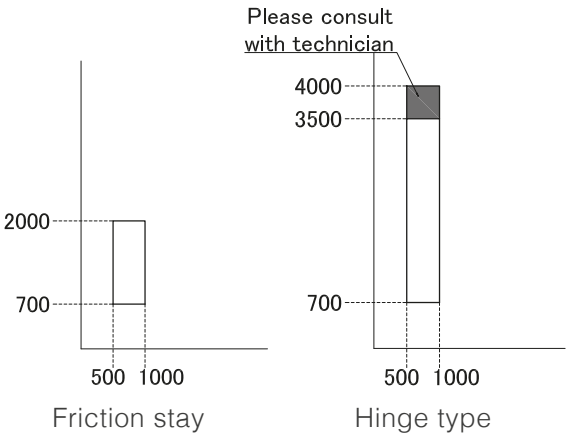
- Frame depth: 101.6 mm
- Pleated insect screen available
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



CASEMENT WINDOW



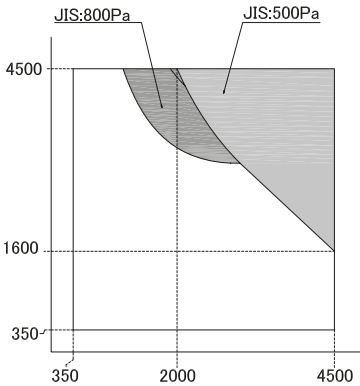
- Frame depth: 101.6 mm
- Pleated insect screen available
- Select from L/R
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



FIXED WINDOW



- For oversize fixed windows, please consult with our technician
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 25 - 31.52 mm: Glazing channel
  - Other glass: Sealant

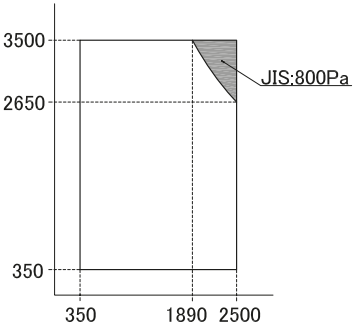


GRANTS

CORNER FIXED WINDOW



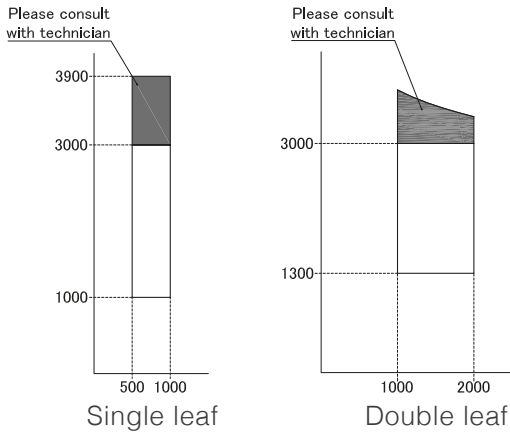
- Frame depth: 101.6 mm
- Only available in single glass
- Both in/outward corners available
- -Glazing finish: Sealant



OUT-SWING DOOR



- Frame depth: 101.6 mm
- Door closer NOT available
- Select from L/R
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



UNIT COMBINATION WINDOW

BOTTOM WINDOWS	TOP WINDOWS					
	SINGLE AWNING	SINGLE CASEMENT	SINGLE FIXED	DOUBLE FIXED	SINGLE FIXED/ CASEMENT	SLIDING
SINGLE AWNING			●			
SINGLE CASEMENT			●			
SWING DOOR			●			
SINGLE FIXED	●	●	●		●	●
DOUBLE FIXED						●
SLIDING			●	●		





## ATIS Series

**IT IS NOT A WINDOW-FRAME;  
IT IS MOVING ART.**

Our end goal is not just window frames. It is beauty.  
Because we believe nothing is more beautiful than life.  
We invite you to enjoy.



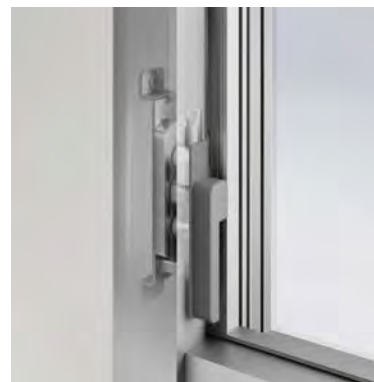


# UNIQUE FEATURES

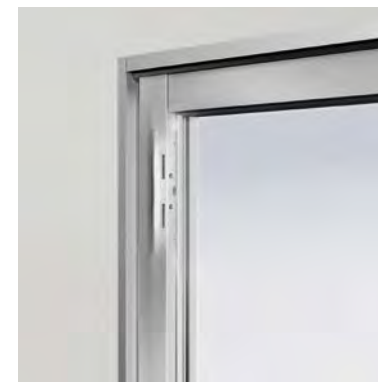
## STREAMLINED DESIGN

Seamless design with beautiful functionality.  
Smooth lines, surfaces, and operation.  
Works as beautifully as it looks.

## CONCEALED HARDWARE



SUB-LOCK



HINGES



BALANCER\*



40 MM MULLION

## L-FIT DESIGN HANDLES



OPERATOR HANDLE\*



CAM-LATCH HANDLE



LEVER HANDLE

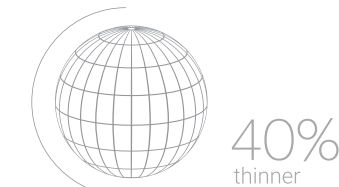


CRESCENT LOCK

\* Only available for ATIS series

## SLIM MULLION

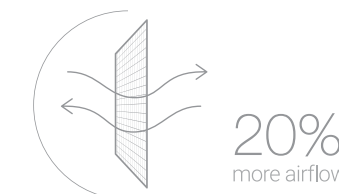
## SMART AND INVISIBLE INSECT SCREEN



We use a 40% thinner wire than conventional insect screens. So you get a 20% clearer view.



We have shrunk the space for bugs to squeeze through by 20%, so not even the tiniest gnat can get in.



With more AIRFLOW than conventional insect screens, INVISIBLE SHIELD lets more insect-free AIRFLOW through than any others.



## AWNING / CASEMENT WINDOW



## TILT & SLIDE WINDOW



## SLIT WINDOW WITH CHAIN OPERATOR

Specially designed for rooms where you want to keep outside eyes out but let the breeze in.

You can open our slit windows without having to reach up to window height. We help you make the most out of every living area in your home.



SLIDING WINDOW / DOOR



LIMIT ARM (Optional)



ALUMINUM PROFILE HANDLE

FLAT ATTACHMENT (Optional)



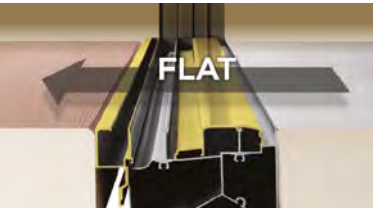
SAFE FOR EVERYONE



DETACHABLE



FOR OUTER RAIL  
(Outer panel fixed)



FOR INNER RAIL  
(Inner panel fixed)

SWING DOOR



L-FIT DESIGN HANDLE AND LOCK SET



CONCEALED FRICTION ARM



CONCEALED HINGES



ATIS



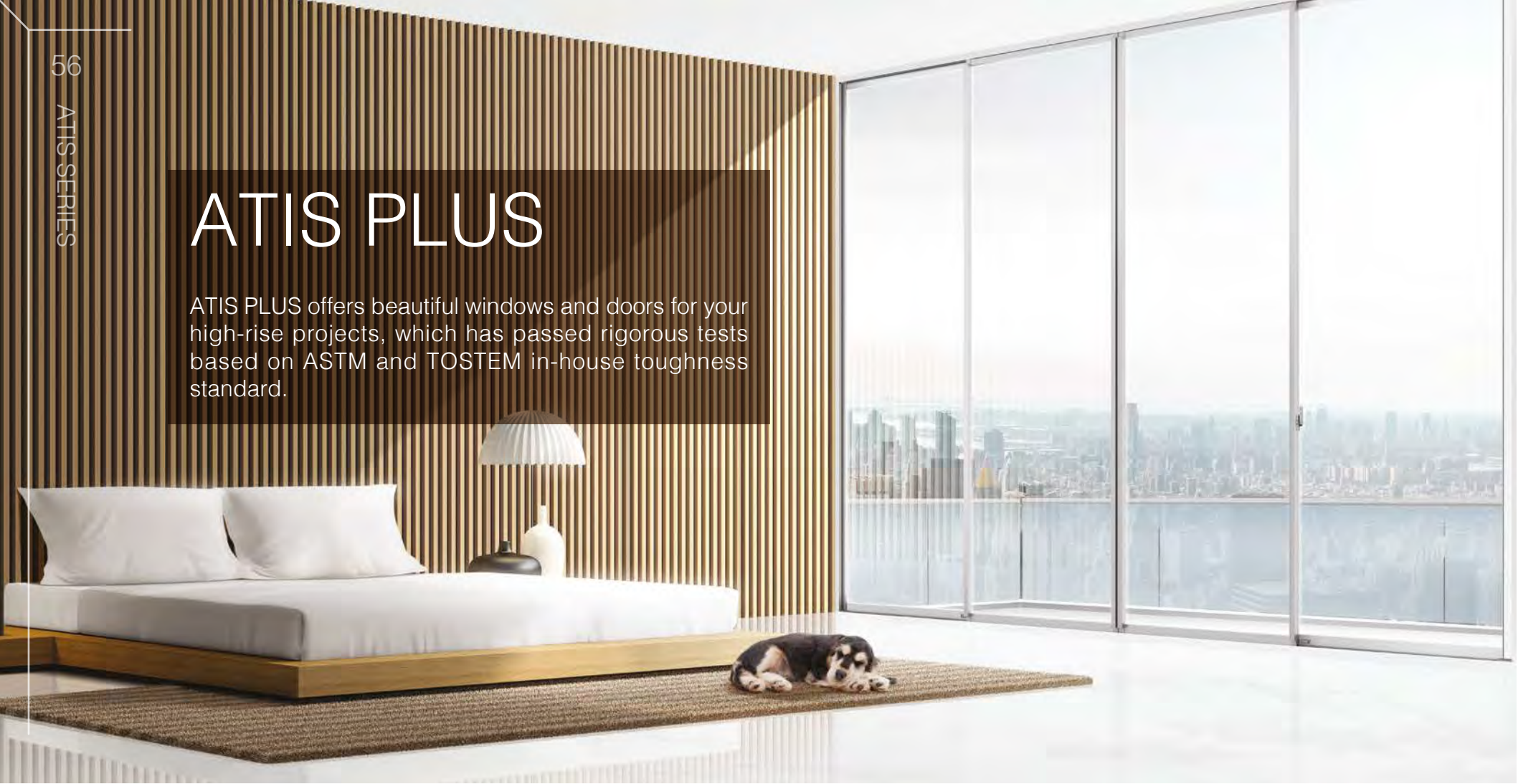
CONVENTIONAL





DOUBLE SWING DOOR WITH MAXIMIZED GLASS AREA (recommended for low-rise projects)



# ATIS PLUS

ATIS PLUS offers beautiful windows and doors for your high-rise projects, which has passed rigorous tests based on ASTM and TOSTEM in-house toughness standard.



SPECIFICATIONS	FRAME DEPTH	88 mm 131.5 mm (3 tracks sliding)		
	HEIGHT OF SILL	55 mm		
	GLASS THICKNESS	5, 6, 8 - 15.52, 22 mm (24, 26 mm for fixed window)		
PERFORMANCES	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION <sup>*1</sup>
	2000PA (ASTM E330)	300PA (ASTM E331)	10.7M³/H.M² (ASTM E283)	T-1: 25DB, T-2: 30DB <sup>*2</sup> (JIS A 1416)

<sup>\*1</sup> Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.  
<sup>\*2</sup> Some specific window types and glasses

## COLORS

NATURAL WHITE

NATURAL SILVER

SHINE GRAY

AUTUMN BROWN

DUSK GRAY

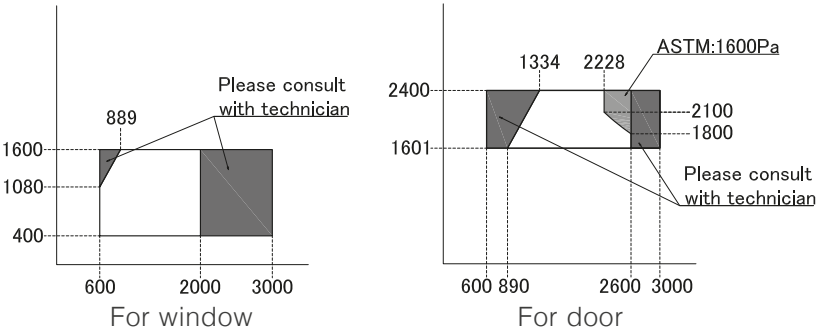
NATURAL BLACK

# ATIS PLUS

## SLIDING (2P2T)



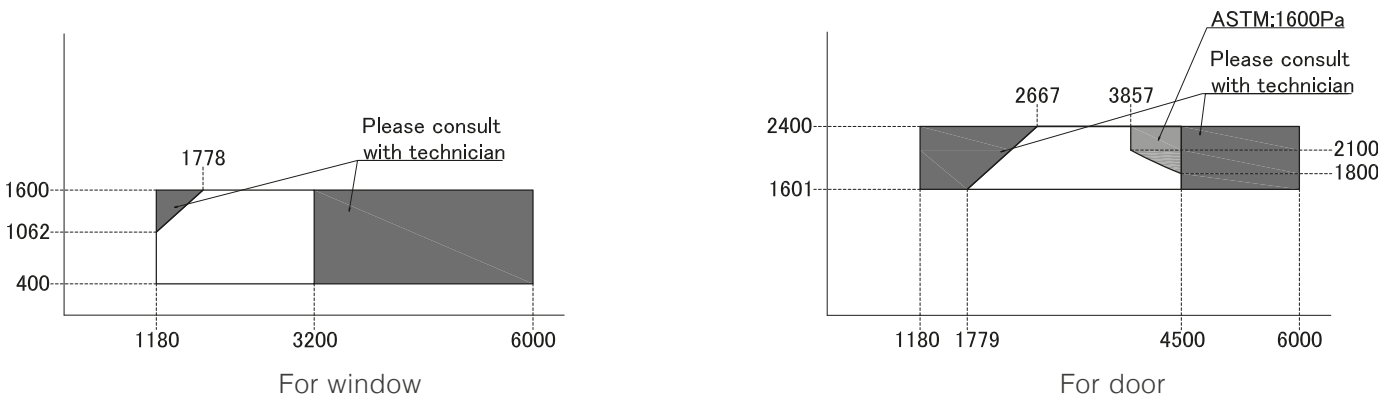
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Glazing finish: Glazing channel



## SLIDING (4P2T)



- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Flat attachment (Optional)
- Glazing finish: Glazing channel

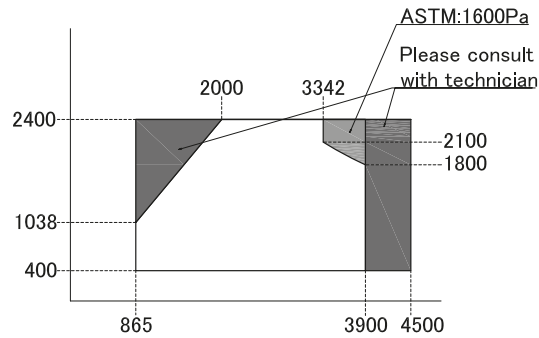


# ATIS PLUS

## SLIDING (3P3T)



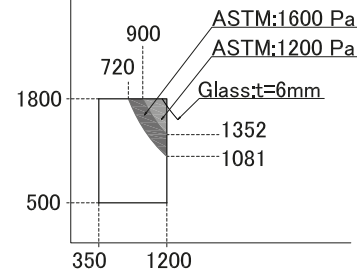
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Glazing finish: Glazing channel



## AWNING WINDOW



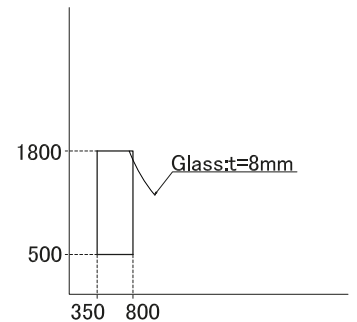
- Frame depth: 88 mm
- Swing screen available
- Glazing finish: Glazing channel



## CASEMENT WINDOW



- Frame depth: 88 mm
- Select from L/R
- Swing screen available
- Glazing finish: Glazing channel

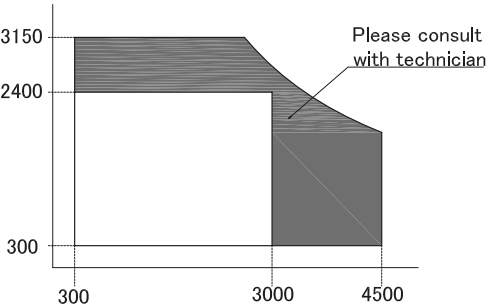


# ATIS PLUS

## FIXED WINDOW



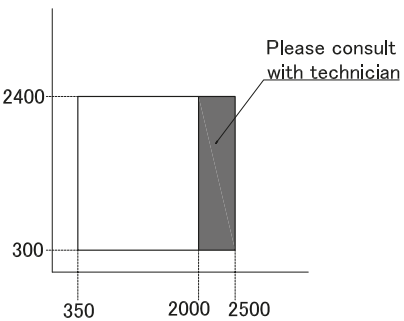
- Frame depth: 88 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead (For 4-4 LG, glazing bead not available)



## CORNER FIXED WINDOW



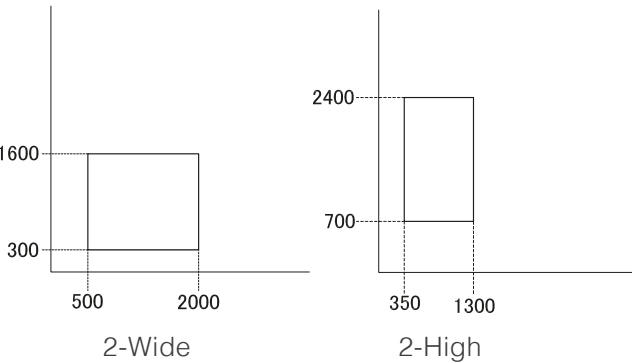
- Frame depth: 88 mm
- Only available in single glass
- Both in/outward corners available
- Middle bar (Optional)
- Glazing finish: Sealant (For 4-4 LG, glazing bead not available)



## UNIT FIXED WINDOW



- Wind load performance varies by glass thickness, please consult with our technician



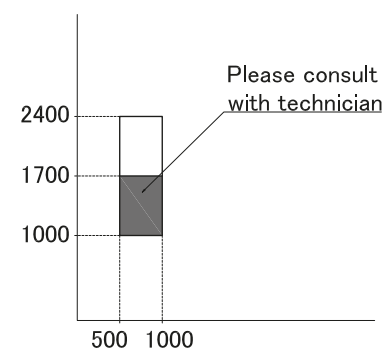


# ATIS PLUS

## OUT-SWING DOOR (SINGLE LEAF)

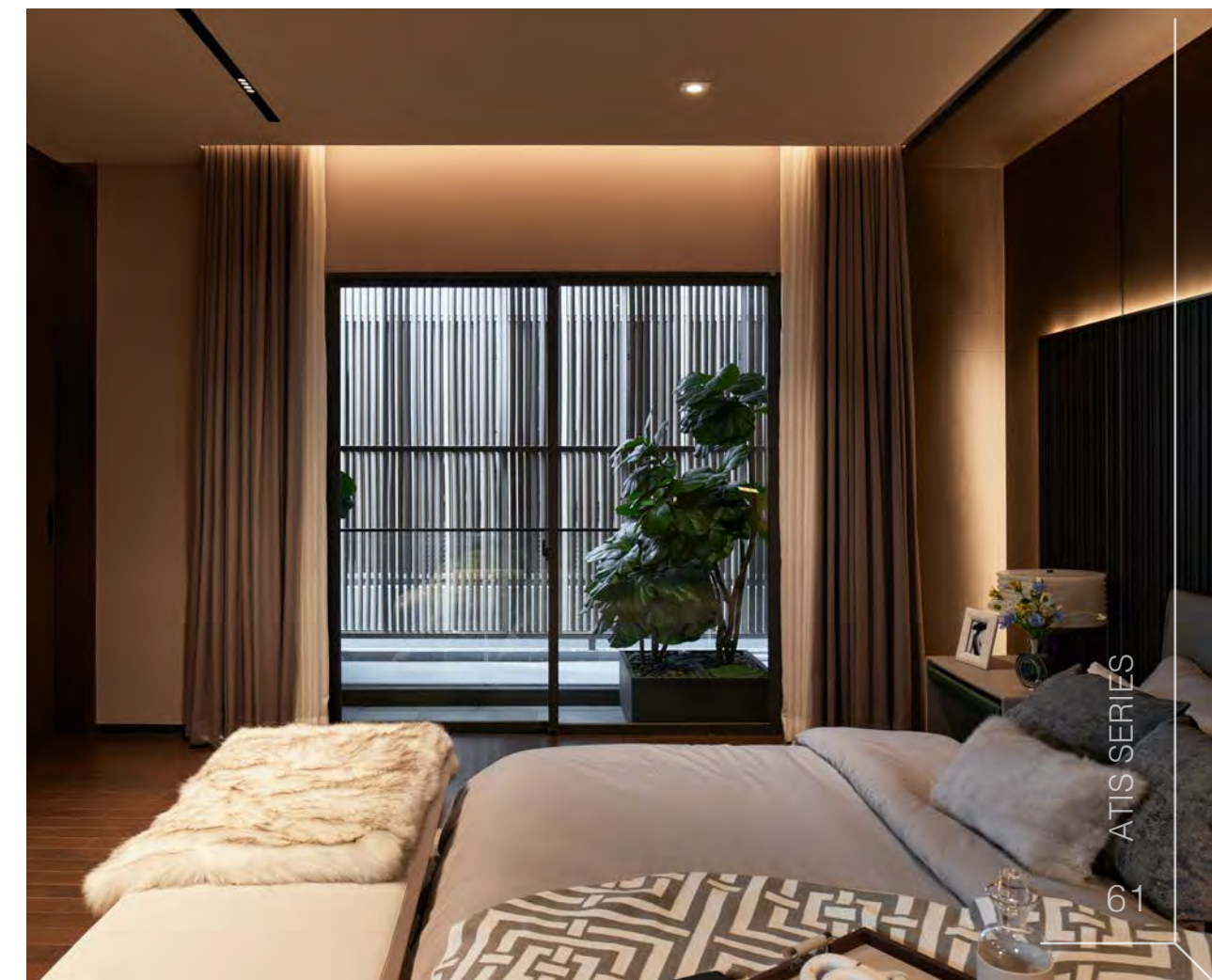


- Frame depth: 88 mm
- Door closer NOT available
- Select from L/R
- Glazing finish : Glazing channel



## MIXED & COMBINATION WINDOW

- Mullions and Transoms are available for various windows and doors, Please consult with our sales representative for selection 180° mullion (standard and reinforced)







# ATIS

ATIS is not only esthetically pleasing but has an enormous amount of innovation and technology “build within”. All ATIS products follow the same simple design concept: Seamlessly unites the inside of your home with the outside without taking anything away.



SPECIFICATIONS	FRAME DEPTH	88 mm 131.5 mm (3 tracks sliding)
	HEIGHT OF SILL	55 mm
	GLASS THICKNESS	5, 6, 8 - 15.52, 22 mm (24, 26 mm for fixed window)

PERFORMANCES	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION <sup>*1</sup>
	S-2 (1200PA) (JIS A 1515)	W-3 (250PA) (JIS A 1517)	A-4 (2) (JIS A 1516)	T-1: 25DB, T-2: 30DB <sup>*2</sup> (JIS A 1416)

<sup>\*1</sup> Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.  
<sup>\*2</sup> Some specific window types and glasses

## COLORS

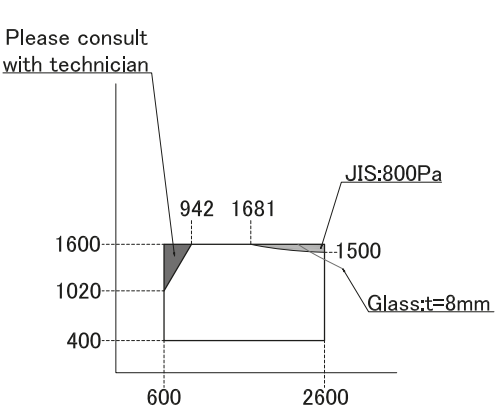
	NATURAL WHITE		NATURAL SILVER		SHINE GRAY		AUTUMN BROWN		DUSK GRAY		NATURAL BLACK
---	---------------	---	----------------	---	------------	---	--------------	---	-----------	---	---------------

# ATIS

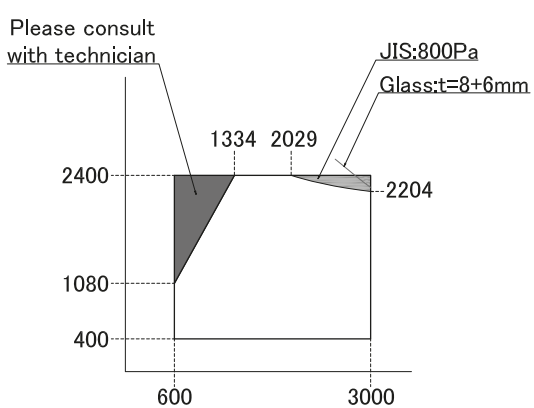
## SLIDING (2P2T)



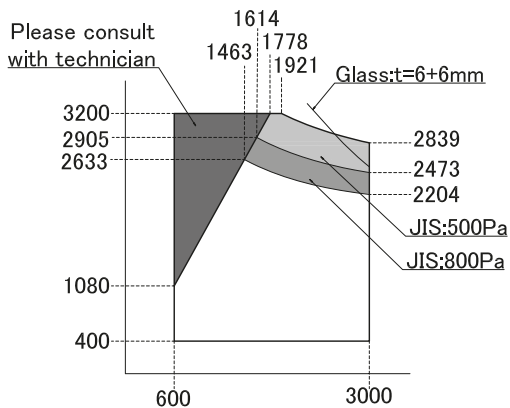
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Select from panel type A to D
- Glazing finish: Glazing channel



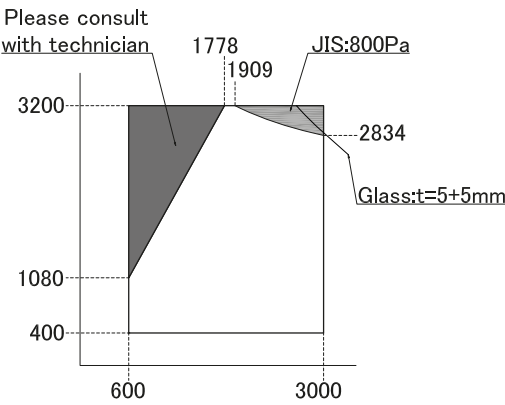
TYPE-A



TYPE-B



TYPE-C



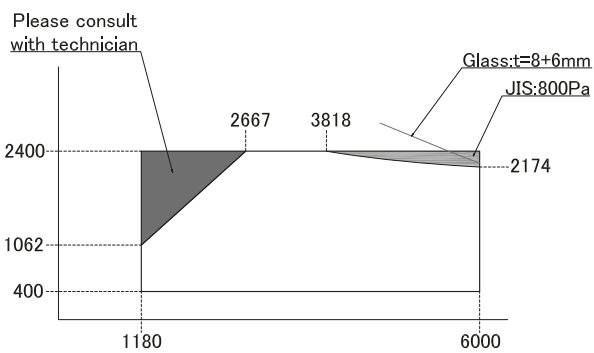
TYPE-D

# ATIS

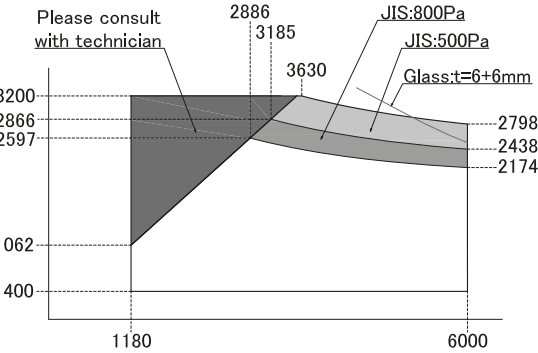
## SLIDING (4P2T)



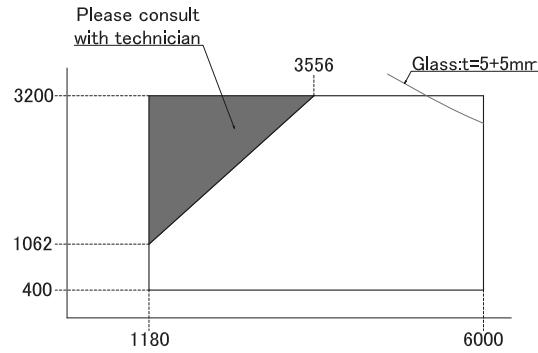
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



TYPE-B



TYPE-C



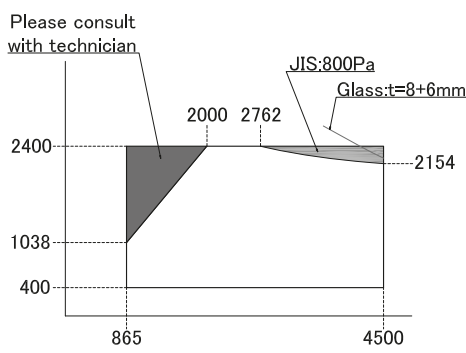
TYPE-D

# ATIS

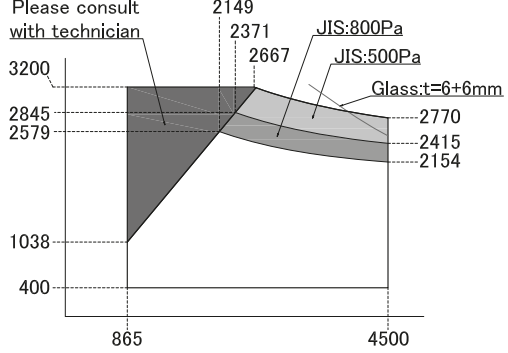
## SLIDING (3P3T)



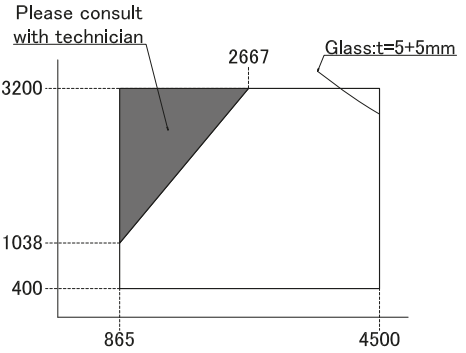
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



TYPE-B



TYPE-C



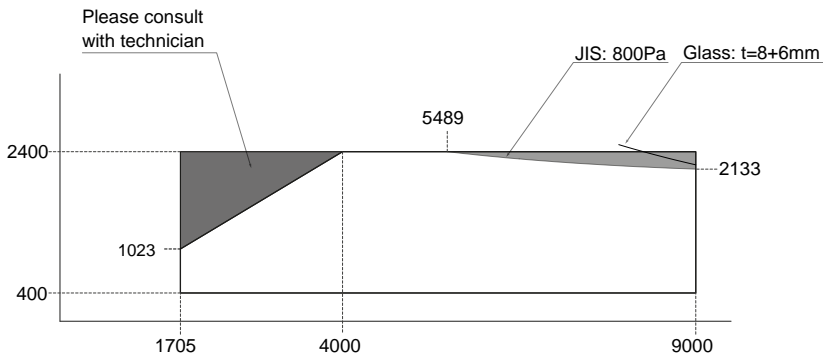
TYPE-D

# ATIS

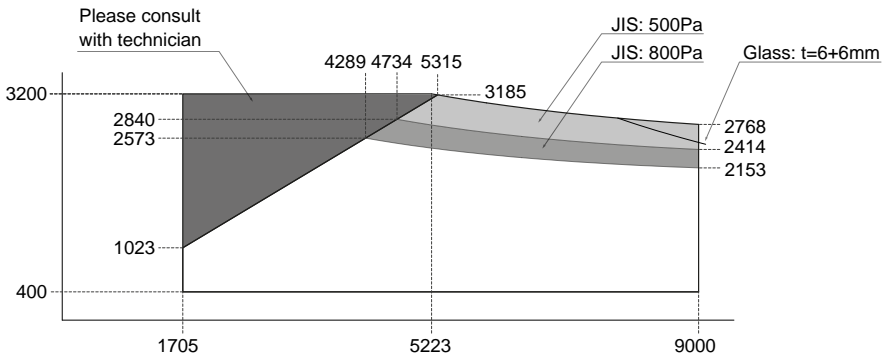
## SLIDING (6P3T)



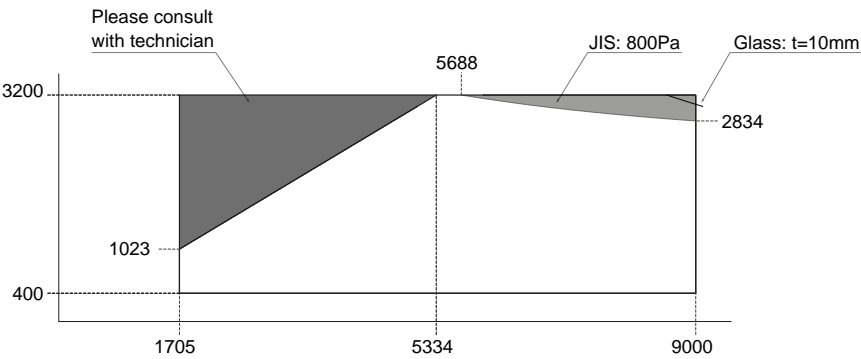
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



TYPE-B



TYPE-C



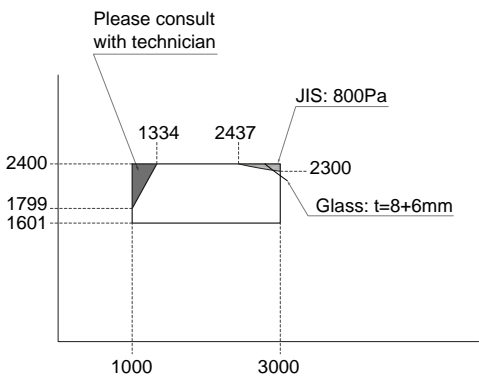
TYPE-D

# ATIS

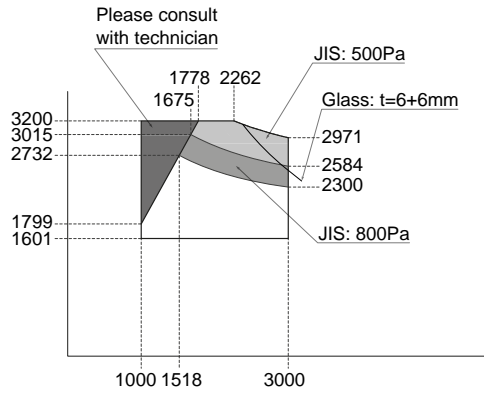
## ENTRANCE SLIDING (2P2T)



- Frame depth: 88 mm
- Only outside insect screen
- Flat attachment (Optional)
- Select from panel type B and C
- Glazing finish: Glazing channel



TYPE-B



TYPE-C

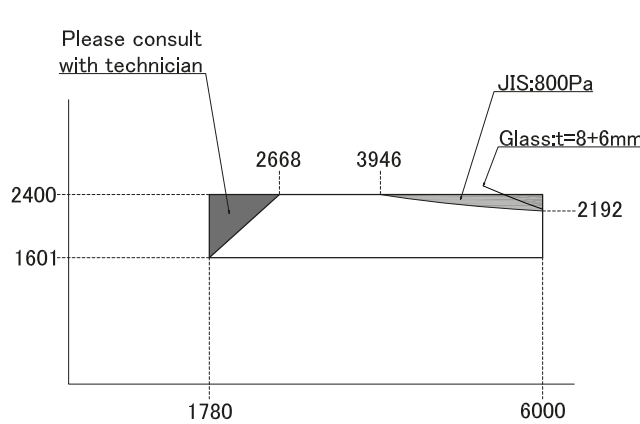


# ATIS

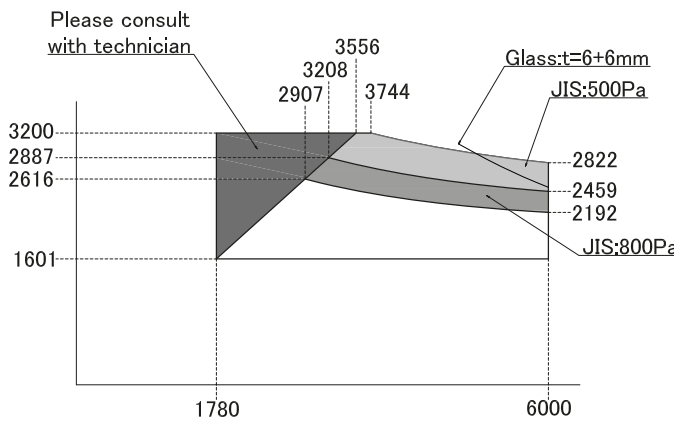
## ENTRANCE SLIDING (4P2T)



- Frame depth: 88 mm
- Only outside insect screen
- Flat attachment (Optional)
- Select from panel type B and C
- Glazing finish: Glazing channel



TYPE-B



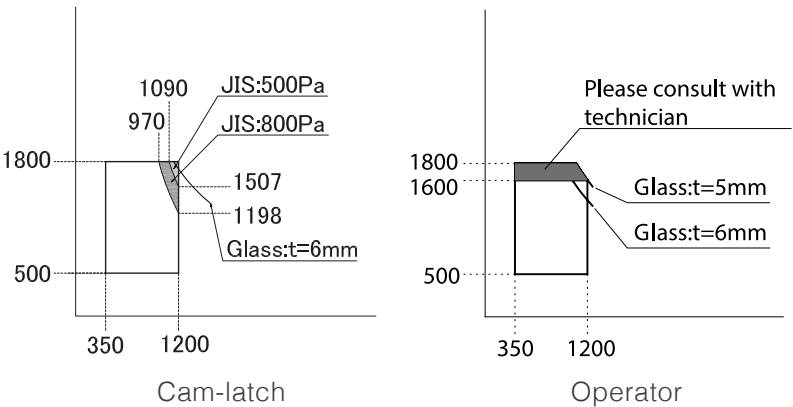
TYPE-C

# ATIS

## AWNING WINDOW



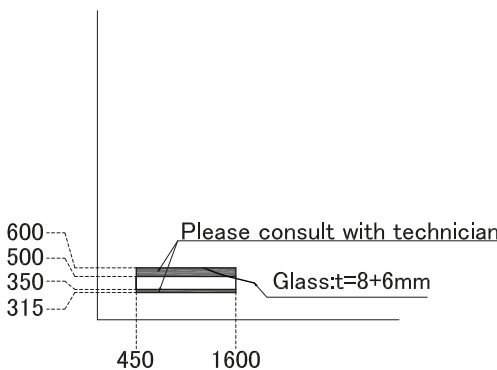
- Frame depth: 88 mm
- Swing screen available for cam-latch type
- Smart screen available for operator type
- Glazing finish : Glazing channel



## AWNING SLIT WINDOW



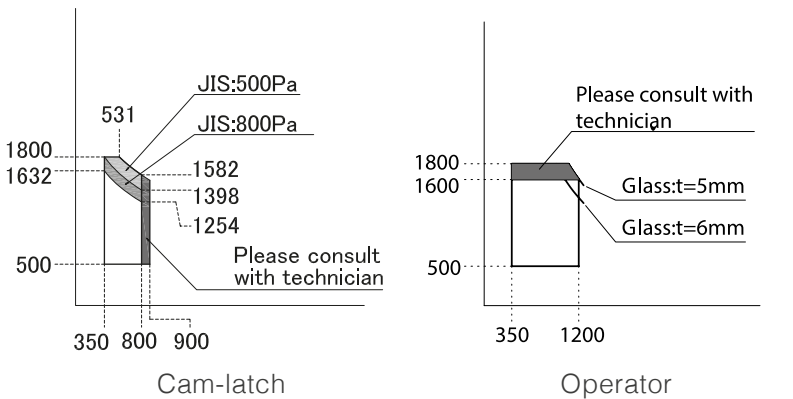
- Frame depth: 88 mm
- Smart screen available
- Glazing finish : Glazing channel



## CASEMENT WINDOW



- Frame depth: 88 mm
- Select from L/R
- Swing screen available for cam-latch type
- Smart screen available for operator type
- Safety arm (Optional)
- Glazing finish : Glazing channel

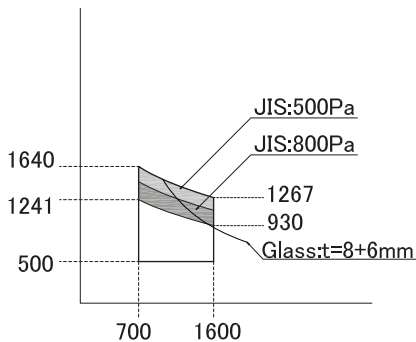


# ATIS

## DOUBLE CASEMENT WINDOW



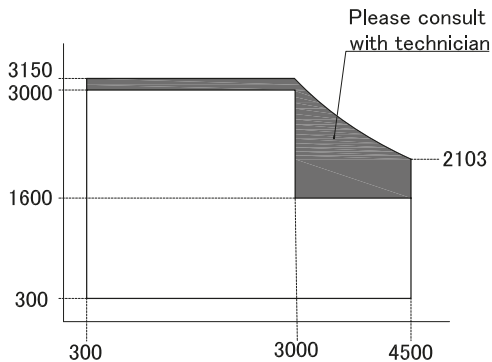
- Frame depth: 88 mm
- Select from L/R
- Swing screen available
- Safety arm (Optional)
- Glazing finish : Glazing channel



## FIXED WINDOW



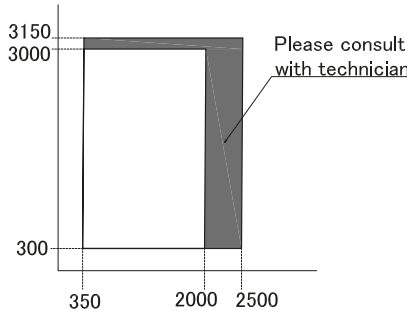
- Frame depth: 88 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead (For 4-4 LG, glazing bead not available)



## CORNER FIXED WINDOW



- Frame depth: 88 mm
- Only available in single glass
- Both in/outward corners available
- Middle bar (Optional)
- Glazing finish: Sealant (For 4-4 LG, glazing bead not available)

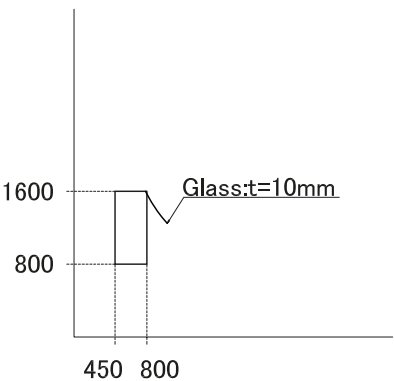


# ATIS

## TILE & SLIDE WINDOW



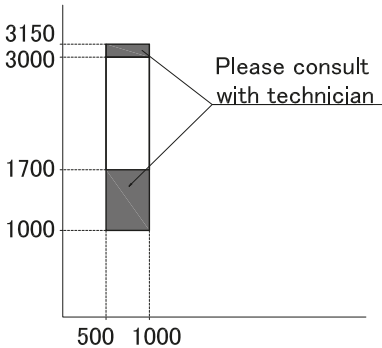
- Frame depth: 88 mm
- Only outside insect screen available
- Glazing finish: Glazing channel



## OUT-SWING DOOR (SINGLE LEAF)



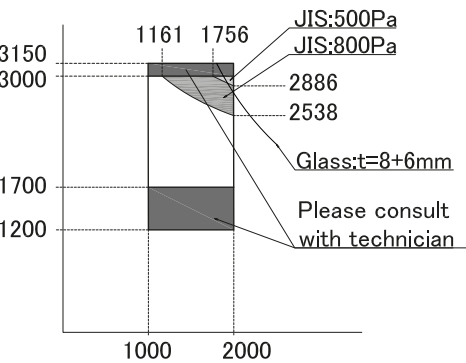
- Frame depth: 88 mm
- Door closer NOT available
- Select from L/R
- Glazing finish : Glazing channel



## OUT-SWING DOOR (DOUBLE LEAF)



- Frame depth: 88 mm
- Door closer NOT available
- Select from L/R
- Glazing finish : Glazing channel



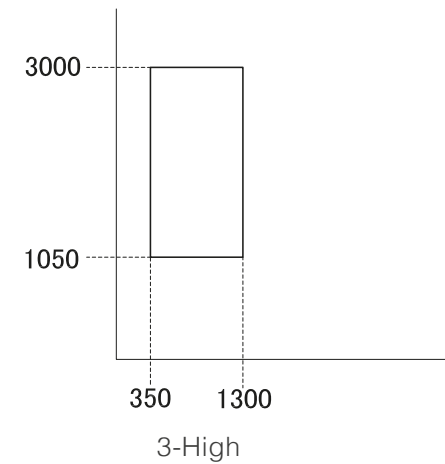
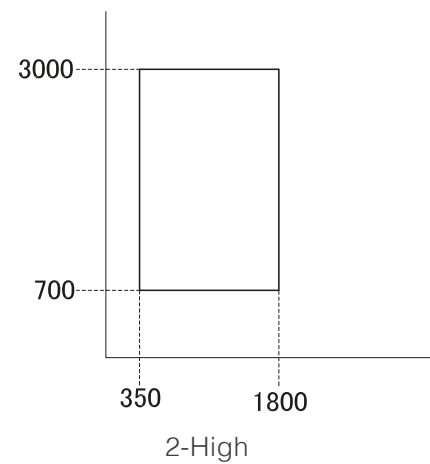
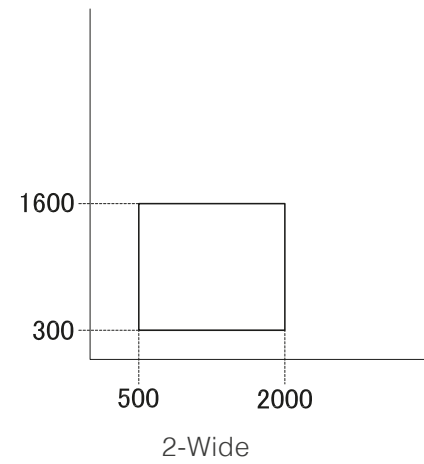


# ATIS

## UNIT FIXED WINDOW

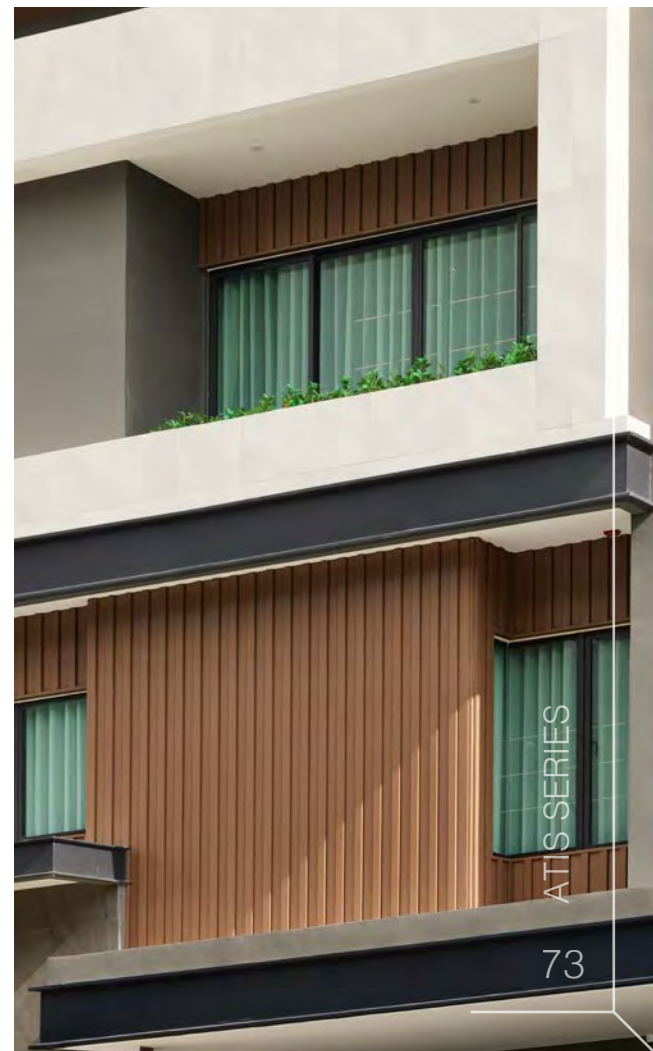


- Frame depth: 88 mm
- For oversize fix windows, please consult with our technicians.
- Glazing finish: Glazing bead  
(For 4-4 LG, glazing bead not available)



## MIXED & COMBINATION WINDOW

- Mullions and Transoms are available for various windows and doors, Please consult with our sales representative for selection  
180° mullion (standard and reinforced)







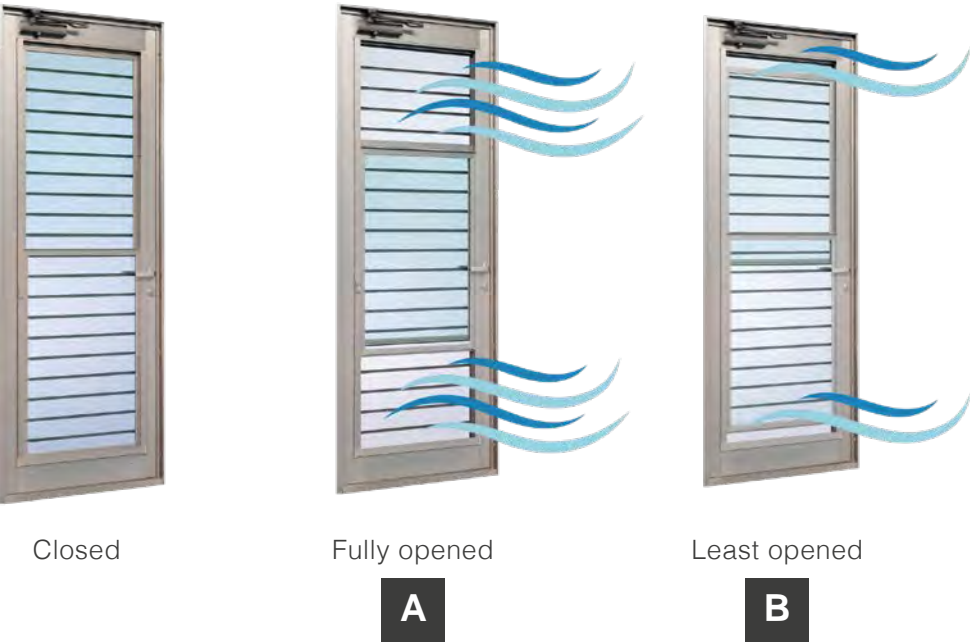
## WE Series

Discover Japan's quality and craftsmanship with TOSTEM WE series. Our high-performing products elevate everyday living with superior functionality.



# UNIQUE FEATURES

## VENTILATION DOOR



**A** Fully open to allow ventilation while the door remains closed. Draws in fresh air and clears out irritating odors and moisture through natural convection.

**B** Acts as a home-cooling device during daytime. “Least Open” at 35 mm locked panels maintain ventilation when no one is home.

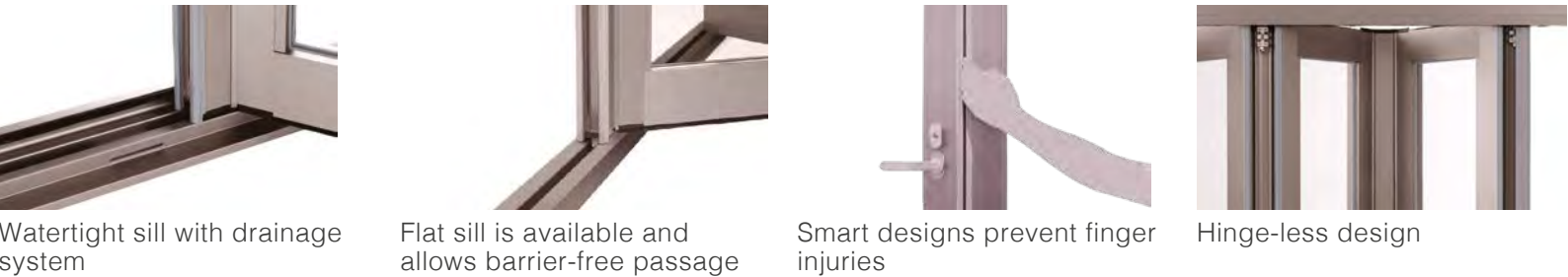
## AIRFLOW SLOT



\* Available with all windows



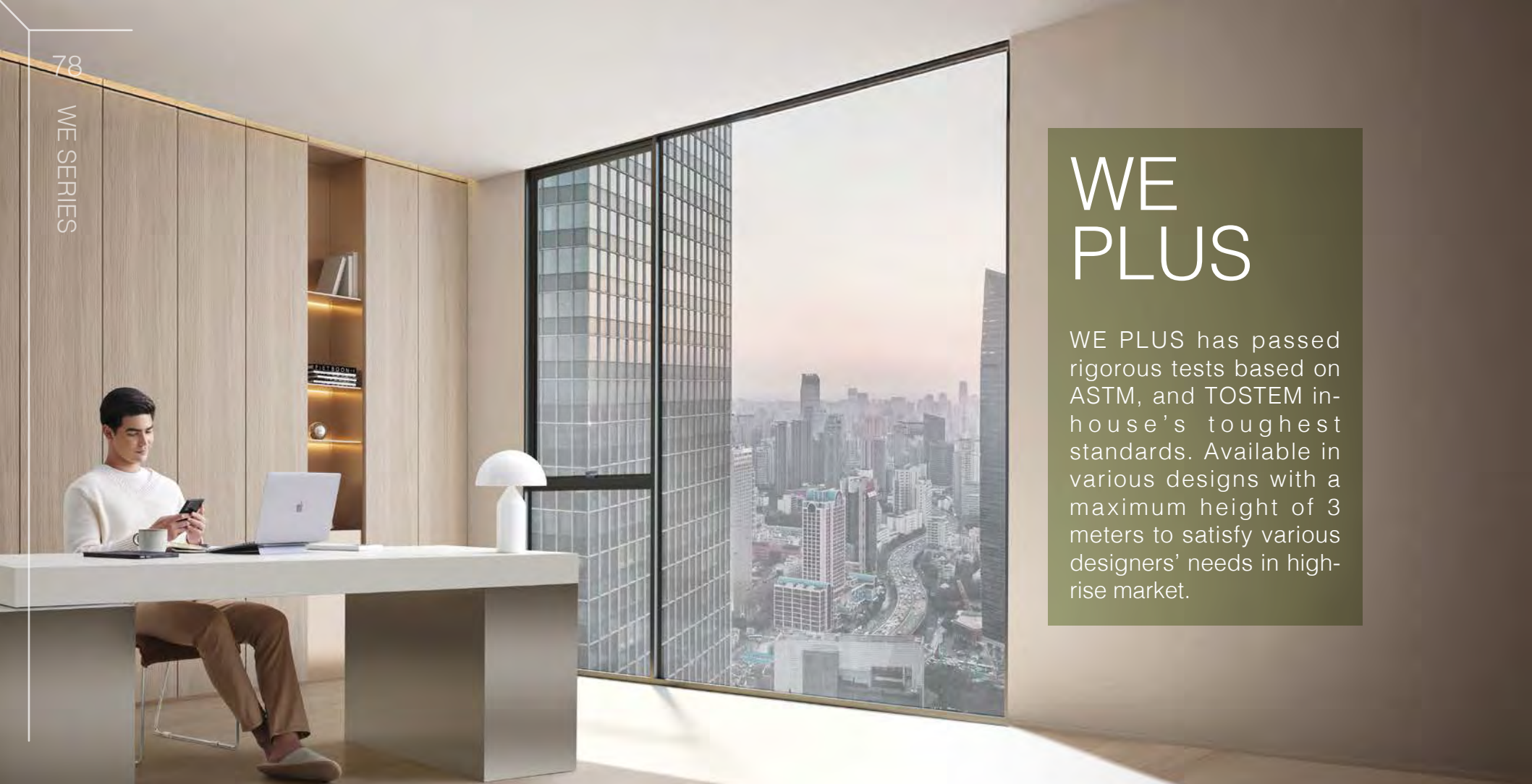
## FOLDING DOOR



## PRODUCT VARIETY (Inside View)

PANELS	ONE WAY	BOTH WAYS	CENTER
4 PANELS			
6 PANELS			
8 PANELS			
12 PANELS			
16 PANELS			





# WE PLUS

WE PLUS has passed rigorous tests based on ASTM, and TOSTEM in-house's toughest standards. Available in various designs with a maximum height of 3 meters to satisfy various designers' needs in high-rise market.

SPECIFICATIONS	FRAME DEPTH	72 mm 104 mm (3 tracks sliding)
	HEIGHT OF SILL	35 mm 50 mm (all slidings)
	GLASS THICKNESS	5, 6, 8 mm

PERFORMANCES	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION
	1600PA (ASTM E330)	240PA (ASTM E331)	10.7M³/H.M² (ASTM E283)	T-1: 25DB (JIS A 1416)

Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

### COLORS

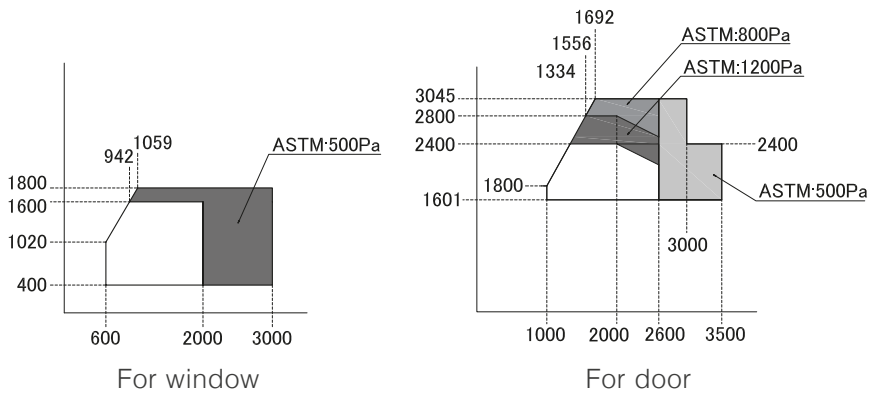
	NATURAL WHITE		NATURAL SILVER		SHINE GRAY		AUTUMN BROWN		DUSK GRAY		NATURAL BLACK
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## WE PLUS

### SLIDING (2P2T)



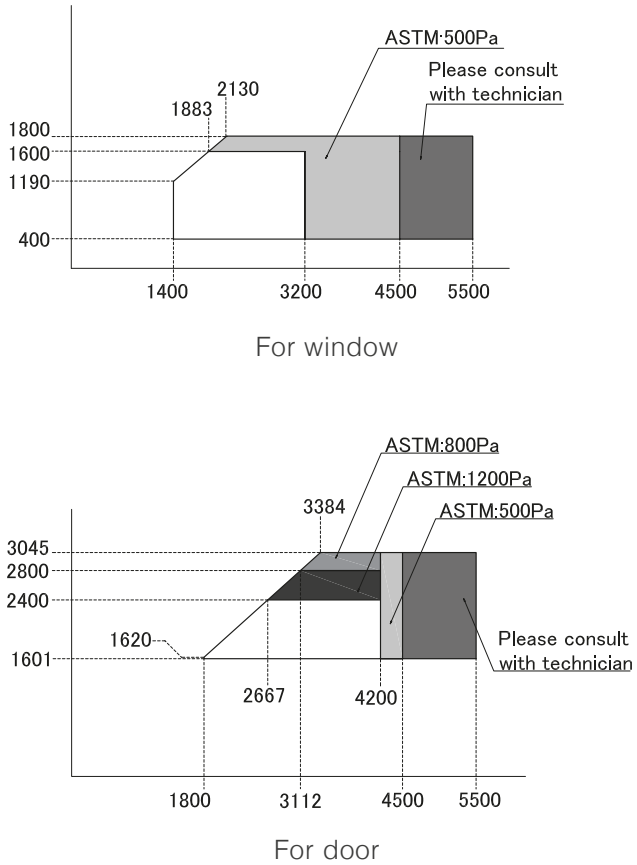
- Frame depth: 72 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



### SLIDING (4P2T)



- Frame depth: 72 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



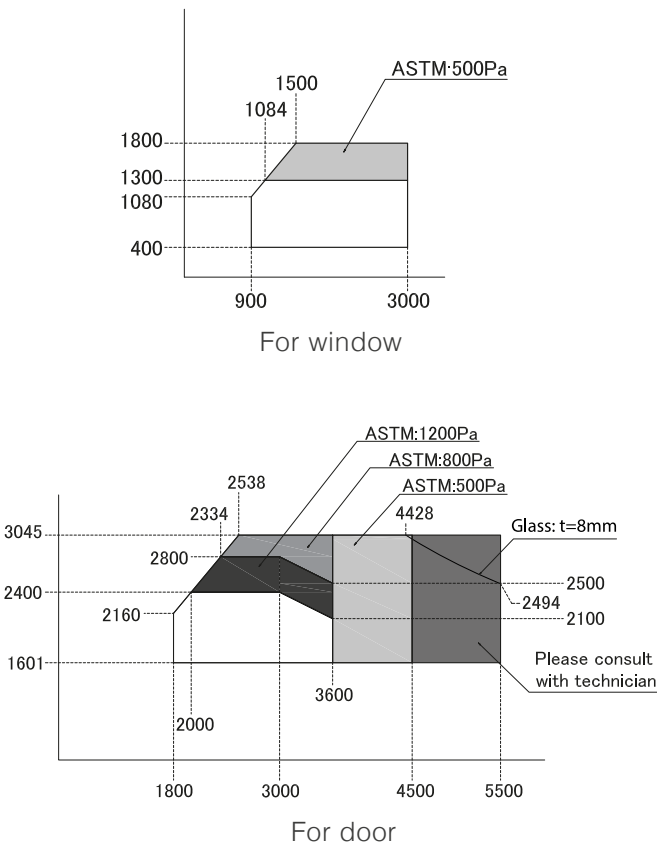


# WE PLUS

## SLIDING (3P3T)



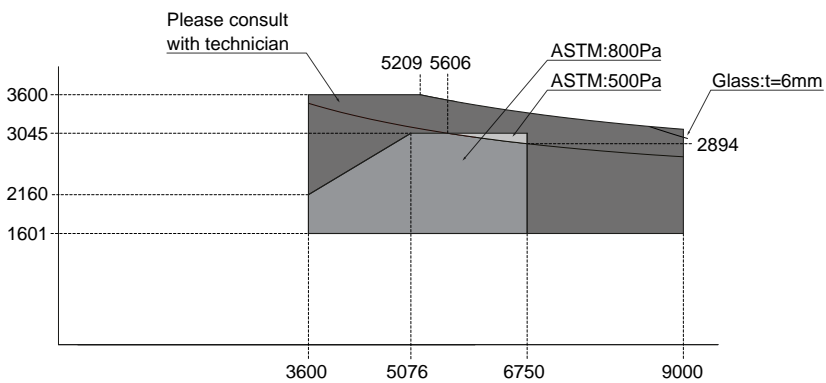
- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## SLIDING (6P3T)



- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel

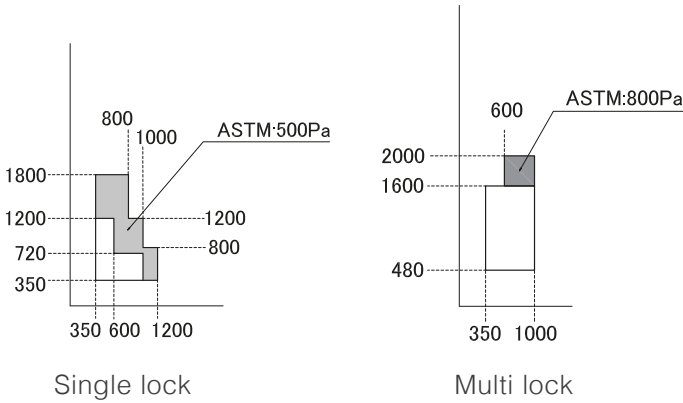


# WE PLUS

## AWNING WINDOW



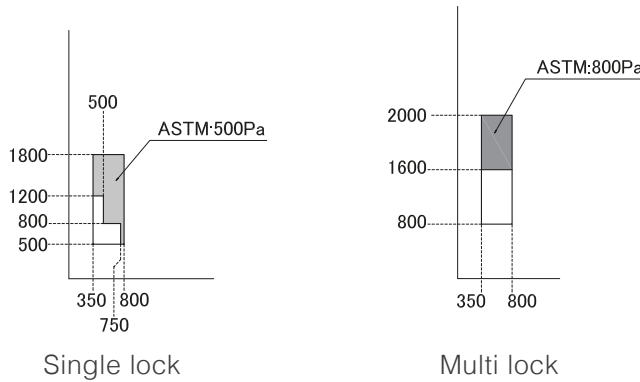
- Frame depth: 72 mm
- Swing screen only available for single lock type
- Glazing finish : Glazing bead



## CASEMENT WINDOW



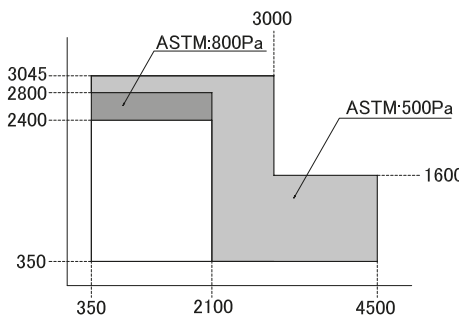
- Frame depth: 72 mm
- Select from L/R
- Swing screen only available for single lock type
- Safety arm (Optional)
- Glazing finish : Glazing bead



## FIXED WINDOW



- Frame depth: 72 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead

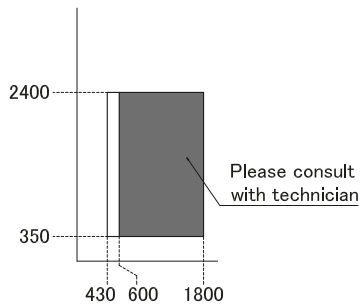


# WE PLUS

## CORNER FIXED WINDOW



- Frame depth: 72 mm
- Both in/outward corners available
- Middle bar (Optional)
- Glazing finish: Glazing bead

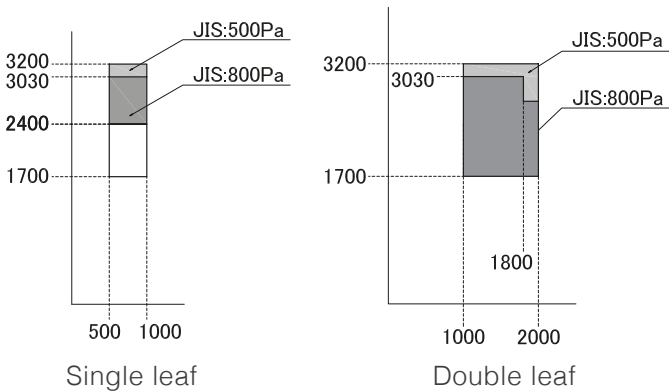


## OUT-SWING DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Select from with sill or without sill
- Glazing finish : Glazing bead

\* In case of without sill, no air and water performance determined

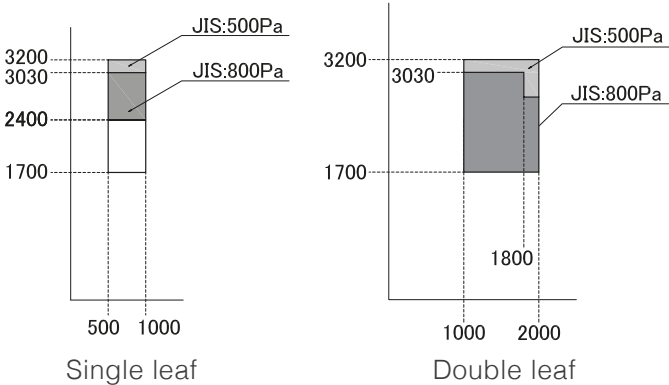


## IN-SWING DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Only available without sill
- Glazing finish : Glazing bead

\* No air and water performance determined



# WE PLUS

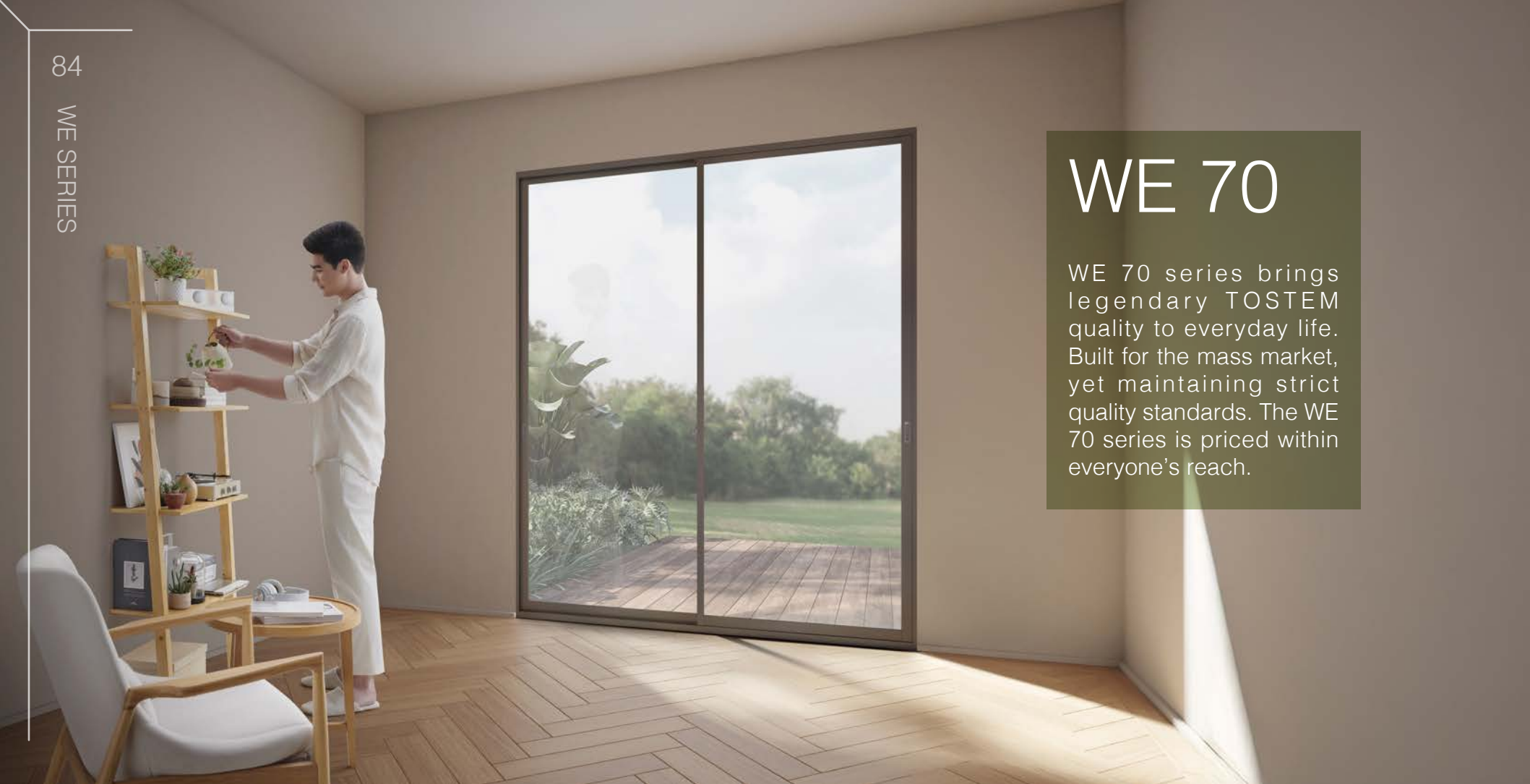
## MIXED & COMBINATION WINDOW





- Mullions and transoms are available for each windows and doors, Please consult with our sales representative for selection
- 180° mullion (standard and reinforced)
- 90° mullion (only for outward corner)
- Transom (standard and reinforced)

BOTTOM WINDOWS	TOP WINDOWS		
	SINGLE AWNING	SINGLE CASEMENT	1 PANEL FIXED
SINGLE AWNING			●
SINGLE CASEMENT			●
1 PANEL FIXED	●	●	●







SPECIFICATIONS	FRAME DEPTH	72 mm 104 mm (3 tracks sliding)		
	HEIGHT OF SILL	35 mm		
	GLASS THICKNESS	5, 6, 8 mm		
PERFORMANCES	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION
	500PA - 800PA (JIS A 1515)	W-2: 150PA (JIS A 1517)	A-3: 10M³/H.M² (JIS A 1516)	T-1 (25) (JIS A 1416)

Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

COLORS

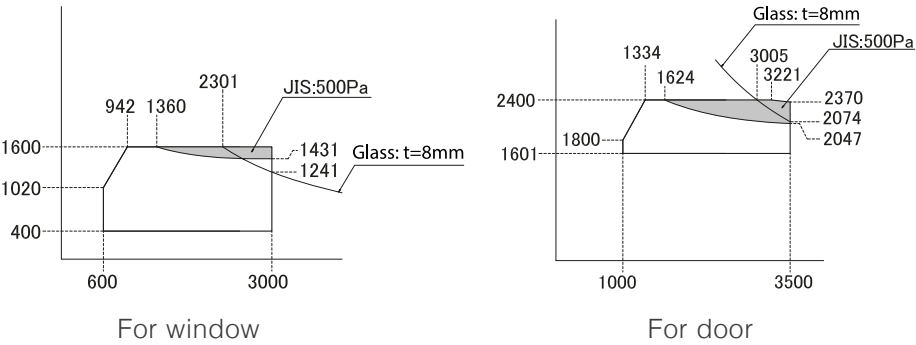
	NATURAL WHITE		NATURAL SILVER		SHINE GRAY		AUTUMN BROWN		DUSK GRAY		NATURAL BLACK
---	---------------	---	----------------	---	------------	---	--------------	---	-----------	---	---------------

WE 70

SLIDING (2P2T)



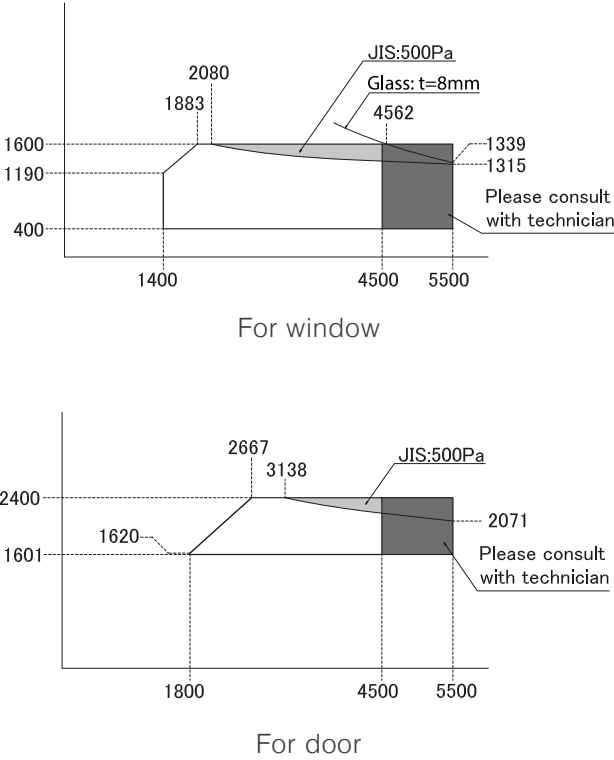
- Frame depth: 72 mm
- Inside insect screen available
- Select panel position from L/R
- Single slider (FS, SF) available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



SLIDING (4P2T)



- Frame depth: 72 mm
- Inside insect screen available
- Select from (FSSF, SSSS)
- Select sill from standard or floor finish
- Glazing finish: Glazing channel

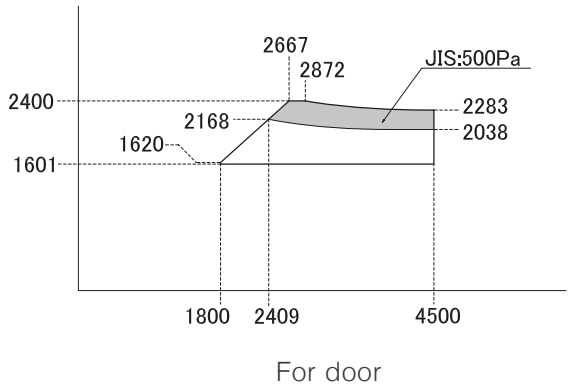
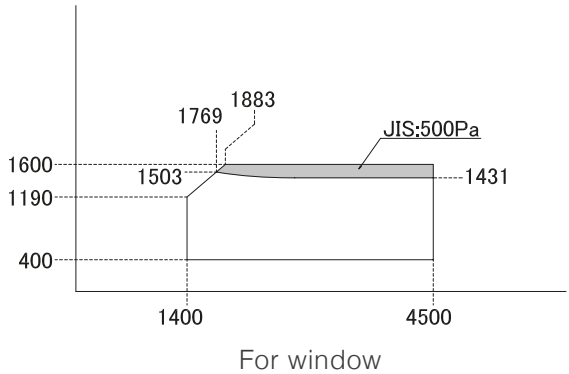


# WE 70

## SLIDING (3P2T) SFS



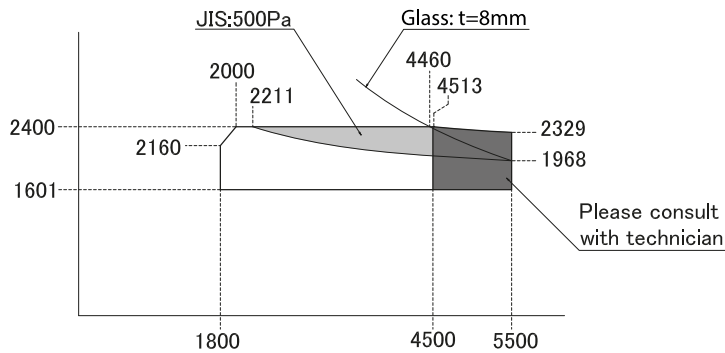
- Frame depth: 72 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## SLIDING (3P3T)



- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel

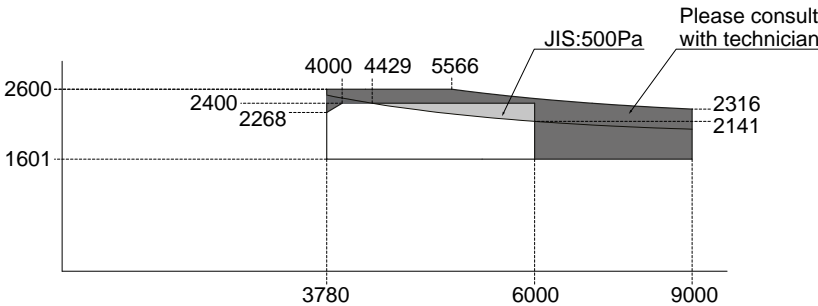


# WE 70

## SLIDING (6P3T)



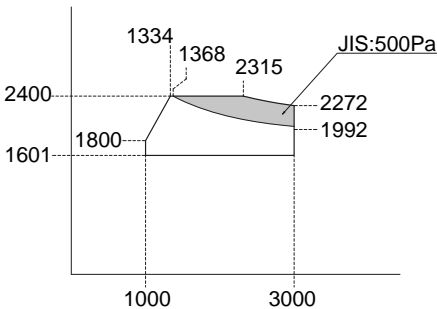
- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## ENTRANCE SLIDING (2P2T)



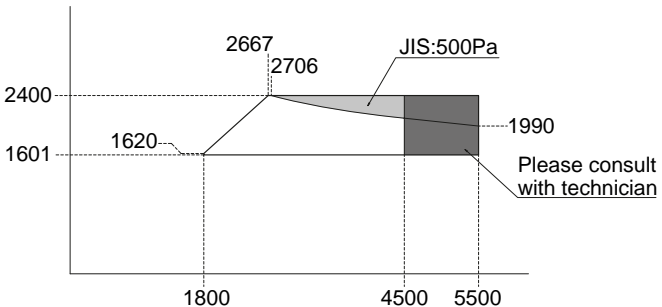
- Frame depth: 72 mm
- Only outside insect screen
- Select panel position from L/R
- Single slider (FS, SF) available
- Glazing finish: Glazing channel



## ENTRANCE SLIDING (4P2T)



- Frame depth: 72 mm
- Only outside insect screen
- Glazing finish: Glazing channel





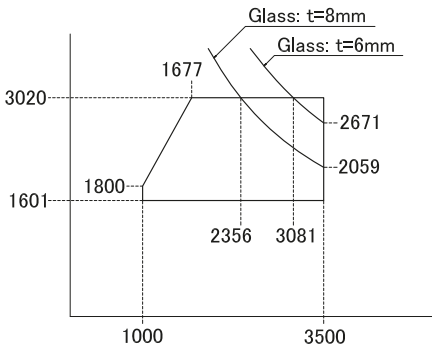
# WE 70

## PARTITION DOOR (2P2T)



- Frame depth: 72 mm
- Sill height : 20 mm
- Glazing finish: Glazing channel

\* No performance determined

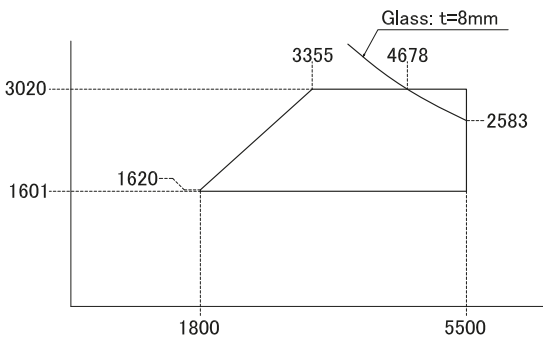


## PARTITION DOOR (4P2T)



- Frame depth: 72 mm
- Sill height : 20 mm
- Glazing finish: Glazing channel

\* No performance determined

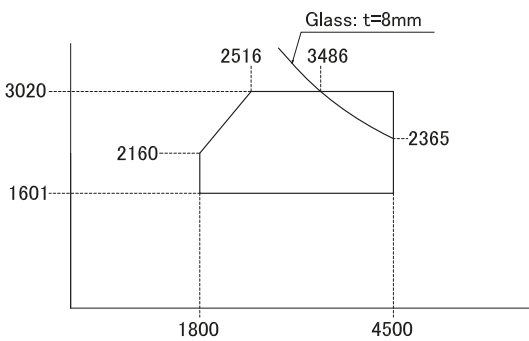


## PARTITION DOOR (3P3T)



- Frame depth: 104 mm
- Sill height : 20 mm
- Glazing finish: Glazing channel

\* No performance determined



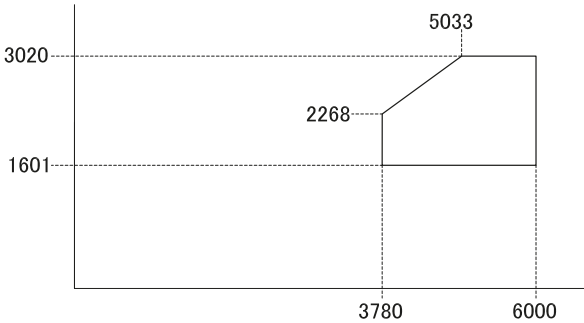
# WE 70

## PARTITION SLIDING (6P3T)



- Frame depth: 104 mm
- Sill height : 20 mm
- Glazing finish: Glazing channel

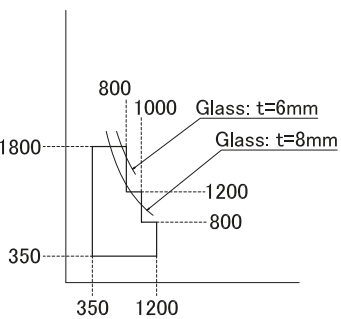
\* No performance determined



## AWNING WINDOW



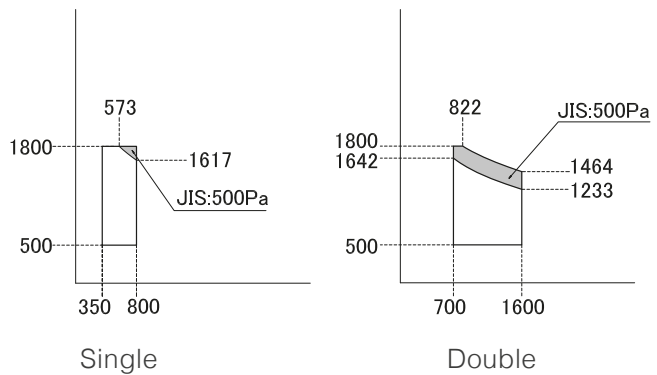
- Frame depth: 72 mm
- Swing screen available
- Glazing finish: Glazing channel



## CASEMENT WINDOW



- Frame depth: 72 mm
- Select from L/R
- Swing screen available
- Glazing finish: Glazing channel

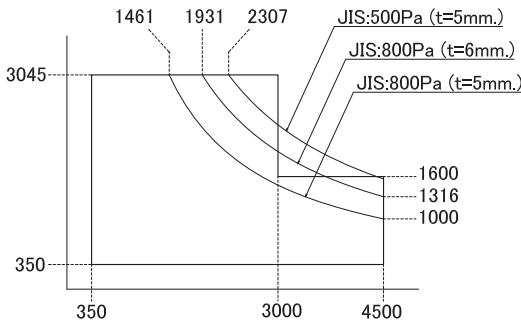


# WE 70

## FIXED WINDOW



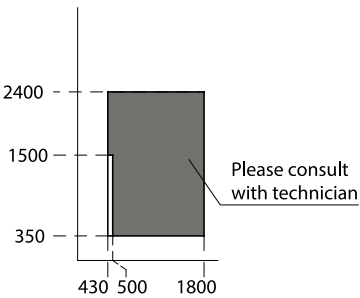
- Frame depth: 72 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead



## CORNER FIXED WINDOW



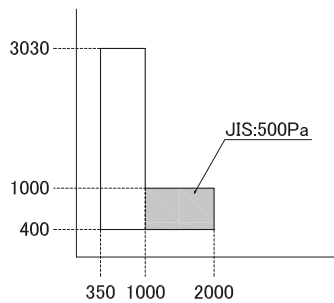
- Frame depth: 72 mm
- Both in/outward corners available
- Middle bar (Optional)
- Glazing finish: Glazing bead



## ALUMINUM LOUVER



- Frame depth: 72 mm
- \* No air and water performance determined



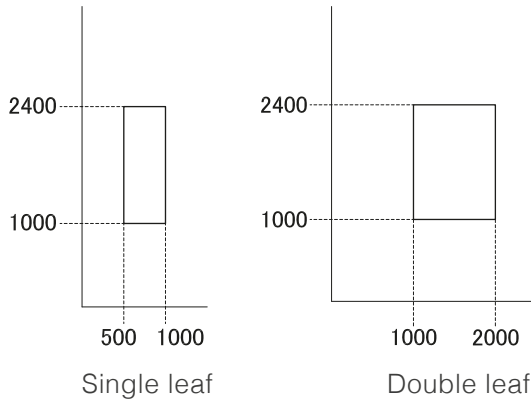
# WE 70

## OUT-SWING DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Select from with sill or without sill
- Glazing finish: Glazing channel

\* In case of without sill, no air and water performance determined

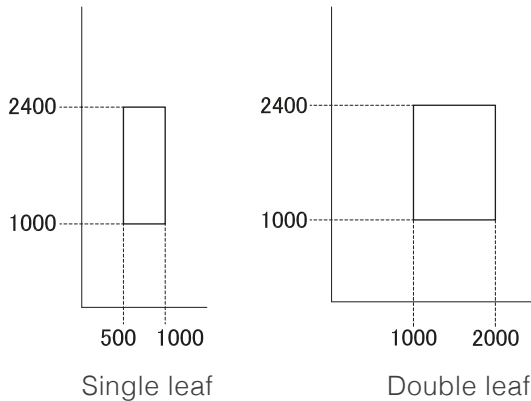


## IN-SWING DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Only available without sill
- Glazing finish: Glazing bead

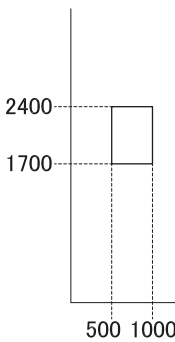
\* No air and water performance determined



## AIRFLOW DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Lattice with screen available
- Glazing finish: Glazing bead
- Glass thickness: 5, 6, 8, 9.52 mm





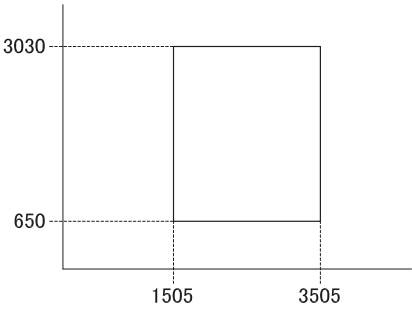
# WE 70

## FOLDING DOOR

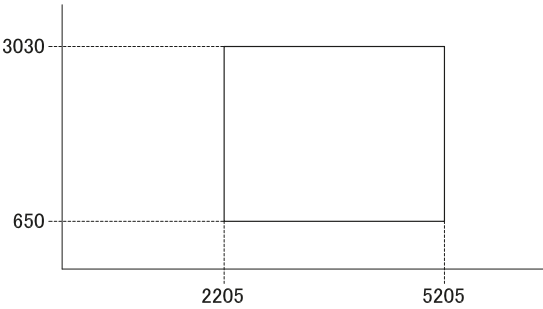


- Frame depth: 72 mm
- Select from standard sill or flat sill
- Pleated insect screen (Optional)
- 1 panel max weight : 40 kg
- 1 panel max width : 850 mm
- Select from (one way open, both way open, or center open)
- For 12 panels and 16 panels, only center open is available
- Glazing finish: Glazing bead

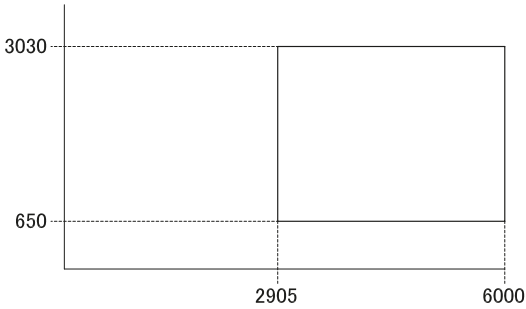
\* No air and water performance determined



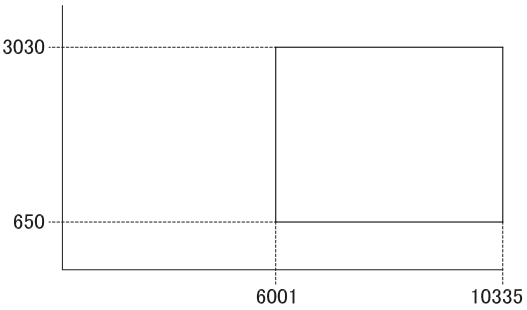
4 panels



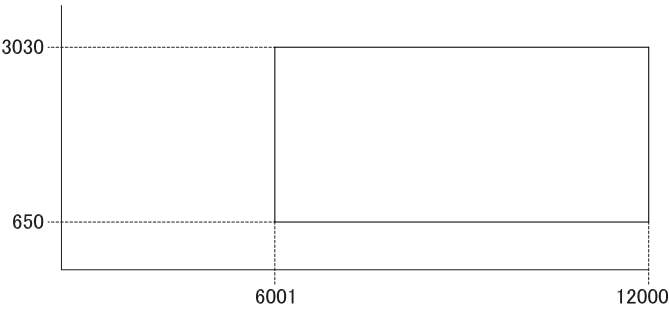
6 panels



8 panels



12 panels



16 panels

# WE 70

## MIXED & COMBINATION WINDOW

- Mullions and transoms are available for each windows and door, please consult with our sales representative for selection
- 180° mullion (standard)
- 90° mullion (only for outward corner)
- Transom (standard)

### UNIT WINDOWS

BOTTOM WINDOWS	TOP WINDOWS											
	SLIDING WINDOW (2P2T)	SLIDING WINDOW (4P2T)	SLIDING WINDOW (3P2T) SFS	SINGLE AWNING	SINGLE CASEMENT	DOUBLE CASEMENT	1 PANEL FIXED	2 PANELS FIXED	3 PANELS FIXED	4 PANELS FIXED	OUTWARD-CORNER FIXED	INWARD-CORNER FIXED
SLIDING WINDOW (2P2T)							●	●				
SLIDING WINDOW (4P2T)								●	●	●		
SLIDING WINDOW (3P2T) SFS								●	●	●		
SINGLE AWNING							●					
SINGLE CASEMENT							●					
DOUBLE CASEMENT							●	●				
1 PANEL FIXED	●			●	●	●	●					
2 PANELS FIXED	●	●	●			●		●	●	●		
3 PANELS FIXED		●	●				●	●	●	●		
4 PANELS FIXED		●	●				●	●	●	●		
OUTWARD-CORNER FIXED											●	
INWARD-CORNER FIXED												●

### UNIT DOORS

BOTTOM DOORS	TOP WINDOWS			
	1 PANEL FIXED	2 PANELS FIXED	3 PANELS FIXED	4 PANELS FIXED
SLIDING DOOR (2P2T)	●	●		
SLIDING DOOR (4P2T)		●	●	●
SLIDING DOOR (3P2T) SFS		●	●	●
2 PANELS FIXED		●	●	●
3 PANELS FIXED		●	●	●
4 PANELS FIXED		●	●	●
SWING DOOR (SINGLE)	●			
SWING DOOR (DOUBLE)		●		







# WE 40

WE 40 series, windows bring legendary TOSTEM quality to everyday life. Built for the mass market, they maintain strict quality standards.

## SPECIFICATIONS

FRAME DEPTH	41 mm
HEIGHT OF SILL	35 mm
GLASS THICKNESS	5, 6 mm

## PERFORMANCES

 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION
500PA (JIS A 1515)	W-1: 100PA (JIS A 1517)	A-3: 10M³/H.M² (JIS A 1516)	N/A (JIS A 1416)

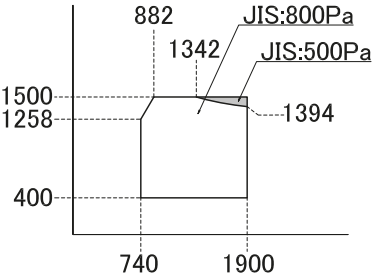
Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

# WE 40

## SINGLE SLIDING WINDOW



- Frame depth: 41 mm
- Outside insect screen available
- Select panel position from L/R
- Glazing finish: Glazing channel

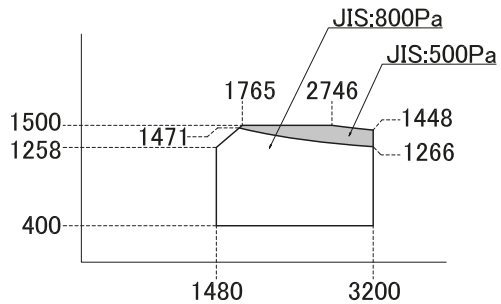


# WE 40

## CENTER SLIDING WINDOW (FSSF)



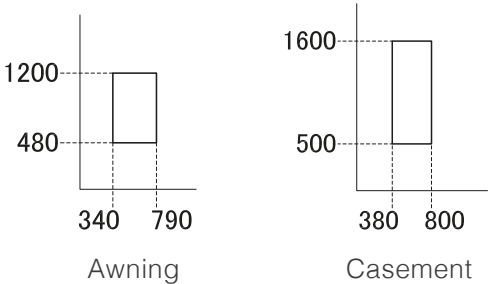
- Frame depth: 41 mm
- Outside insect screen available
- Select panel position from L/R
- Glazing finish: Glazing channel



## AWNING AND CASEMENT WINDOW



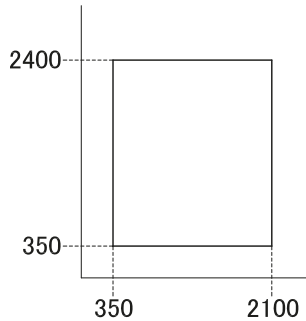
- Frame depth: 41 mm
- Select from L/R for awning window
- Insect screen NOT available
- Glazing finish: Glazing channel



## FIXED WINDOW



- Frame depth: 41 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead







# ALUMINUM INTERIOR Category





## IN16 Series

Introducing IN16, TOSTEM's new interior series – designed to bring smooth transitions, invisible boundaries, and a boundless sense of openness to your home.





# UNIQUE FEATURES

## FORM AND FUNCTION IN BEAUTIFUL BALANCE

- 1

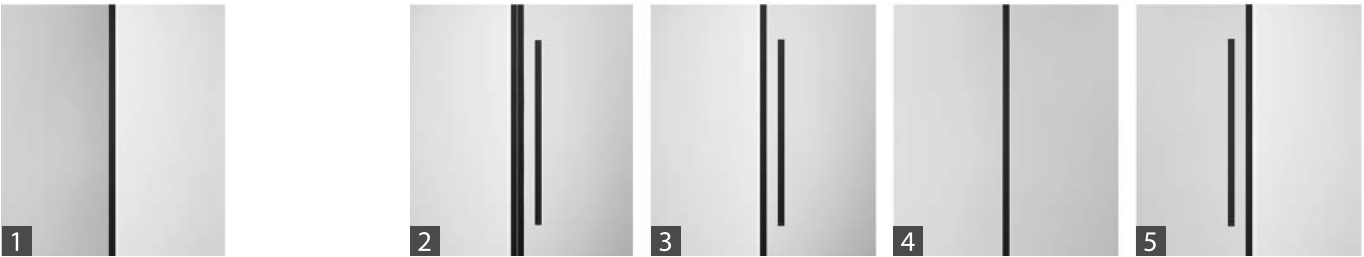
Fixed divider frame: 16 mm
- 2

Swing door frame & panel: 16 mm, Handle:16 mm
- 3

Hanging door panel: 16 mm
- 4

Hanging door panel: 16 mm, Handle: 16 mm
- 5

Hanging door panel: 16 mm, Handle: 16 mm



## SEAMLESS MINIMAL DESIGN

With IN16, we put the working hardware inside the frame because it is meant to work, not to be looked at. This means your eyes don't snag on any protruding parts, caps, or screws.

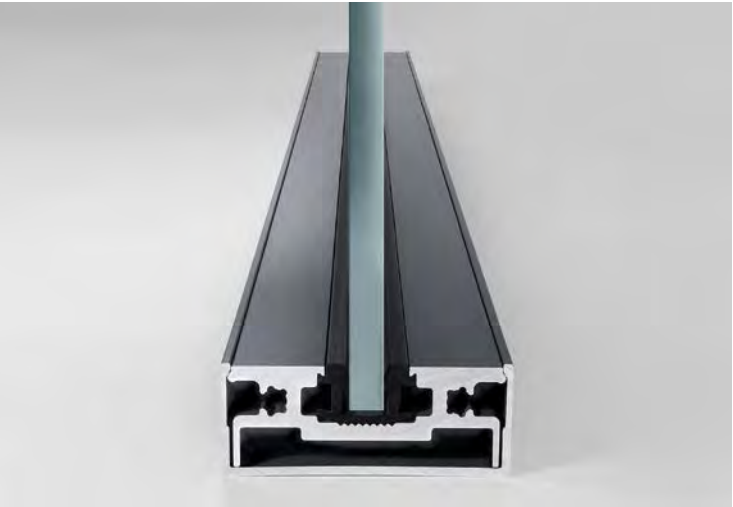
- 1
- Concealed panel catch
- 2
- Concealed Hinges
- 3
- Concealed suspension roller



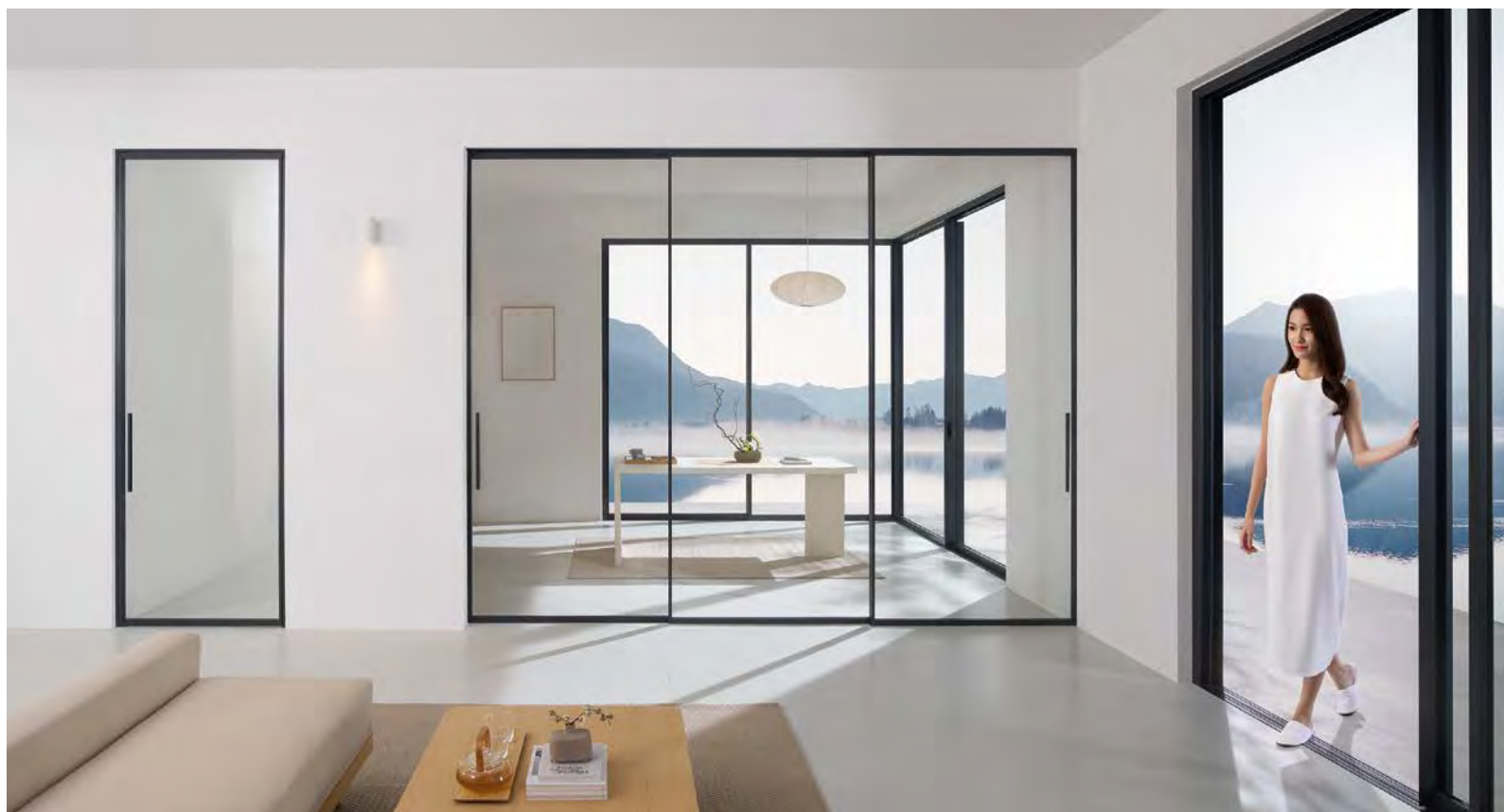
## REFINED & PREMIUM



No visible screws, no caps, Just seamless design that speaks in clean lines and quiet elegance.



Our flush glazing channel creates a clean, uninterrupted look, where glass meets frame in perfect alignment, and design feels effortlessly elevated.



### DESIGNED TO MATCH

IN16, TOSTEM's new interior series, harmonizes effortlessly with exterior products, offering unified colors, finishes, and forms for a truly seamless living experience, inside and out.



### UNIFIED HANDLE PROFILE SHARING THE SAME SIZE, COLOR, MATERIAL, AND TEXTURE

TOSTEM's design philosophy brings unity to your space, ensuring every element speaks the same elegant language.v



### OFFER SEAMLESS CONNECTION BETWEEN INTERIOR AND EXTERIOR SPACES

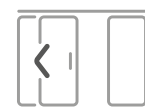
Enhancing the flow and harmony of your environment. With innovative design and cutting-edge technology, TOSTEM's elevates the transition, bringing the outdoors in and vice versa, for a truly fluid and open living experience.





## HANGING DOOR

Redefines modern design with its sleek and unified vertical profiles that create a clean, seamless look. TOSTEM's advanced materials ensure smooth, silent operation while maintaining durability and style.



Detached



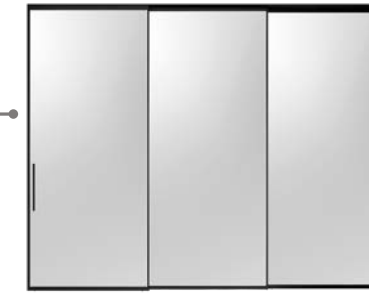
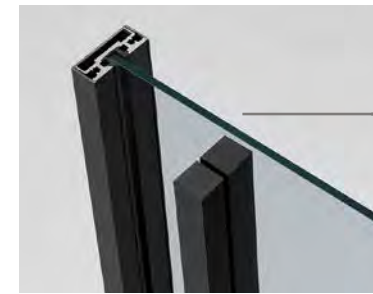
Telescopic



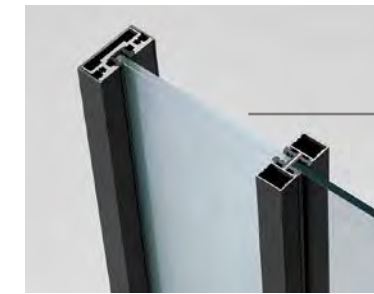
Synchronized



## FLOATING HANDLE



## DIVIDER HANDLE



## HANDLE SELECTIONS

Two distinctive handle options suit different lifestyles and aesthetics while maintaining a unified design language. A floating handle blends effortlessly with the door's sleek profile, while a divider handle creates a strong vertical accent. Shared proportions, color palette, and material finish ensure visual harmony.



## TELESCOPIC MOTION

Doors slide sequentially and stack neatly together to one side, creating the widest possible clear entryway.



## SYNCHRONIZED MOTION

Slide just one panel to open both doors simultaneously, creating a seamless, wide entry with one hand.



## SOFT CLOSE

Smooth and enhance safety, adding a touch of elegance.



## SUSPENSION ROLLER

Ensure smooth and stable sliding system.



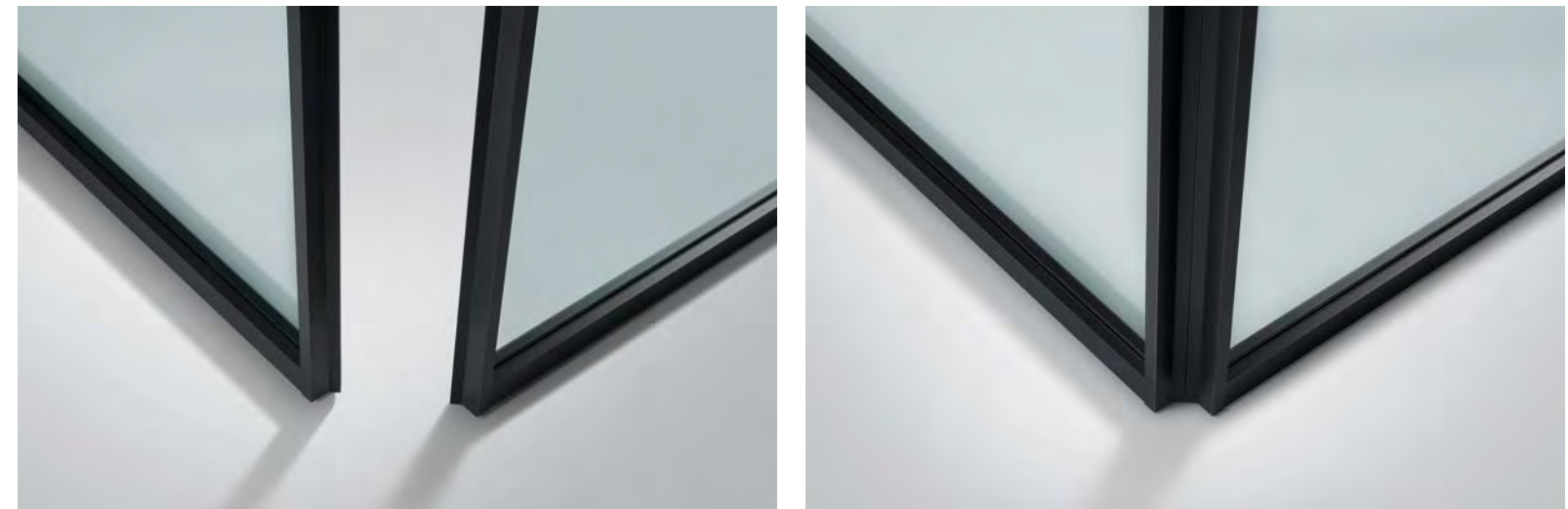
### CORNER HANGING DOOR

Redefine your layout with a corner-opening design that seamlessly dissolves traditional boundaries. It reveals expansive, uninterrupted views while maintaining the IN16's signature ultra-slim elegance and effortless, silent motion.



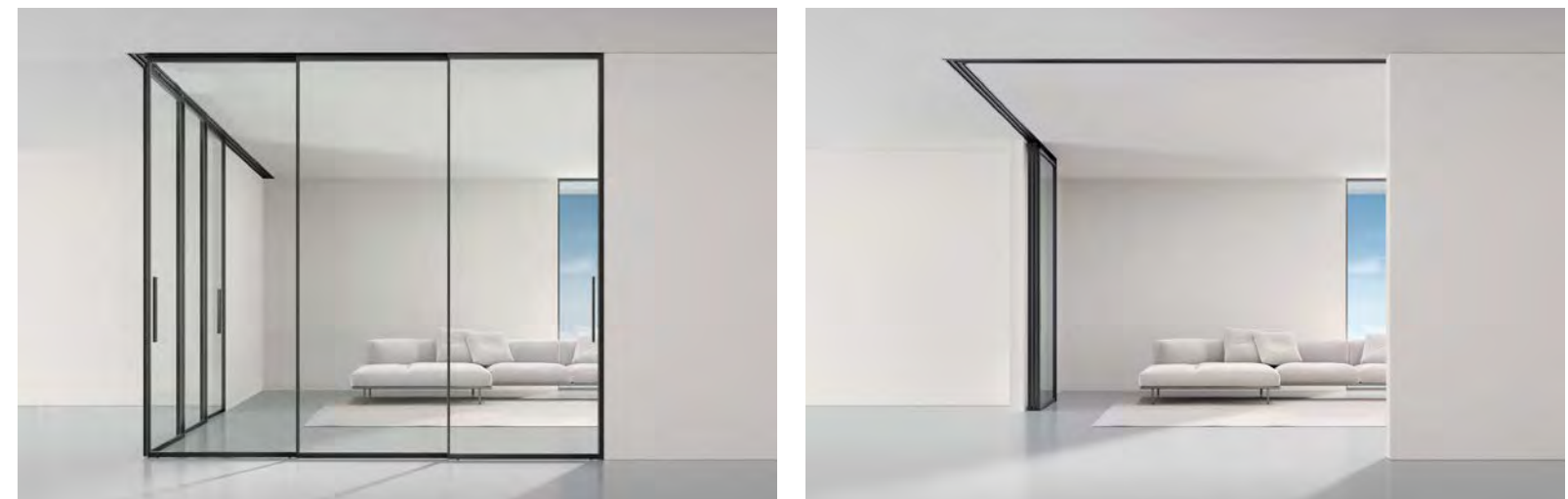
Detached

Telescopic



### THE ART OF BALANCE

Perfectly balancing minimalist beauty with effortless functionality, this ultra-slim design is elegant to the eye and natural to the touch. It ensures a stunning look whether the panels are open or closed.



### UNLOCK YOUR SPACE

Transform your home by dissolving the walls between rooms. This corner-opening system maximizes your space's potential, giving you the ultimate freedom to instantly connect or divide your rooms.



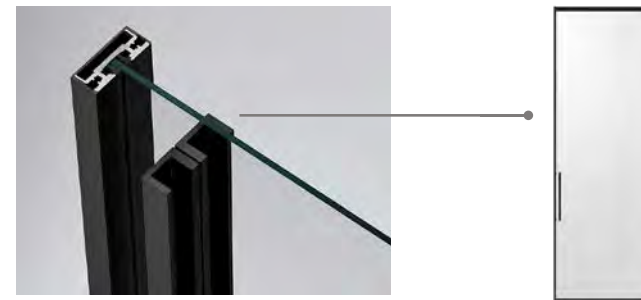


### SWING DOOR

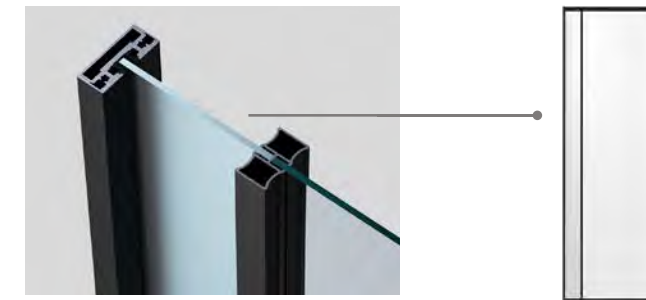
Offers smooth, stable operation with minimal, clean design and unified profiles create a refined look, seamlessly integrating into any interior space.



### FLOATING HANDLE



### DIVIDER HANDLE



### HANDLE SELECTIONS

With two distinctive handle options designed to suit different lifestyles and aesthetics while maintaining a unified design language. The floating handle blends effortlessly with the door's sleek profile. The divider handle extends from floor to ceiling or horizontally. Shared proportions, color palette, and material finish.



### PIVOT

Built-in weather strips offer added airtightness and improved sound performance for everyday comfort.

### FLOOR SPRING

Simply push from either side for an effortless both-way swing, making it the perfect fit for any project—from residential homes to commercial spaces.



### SOFT CLOSE

Add a touch of sophistication to every movement.

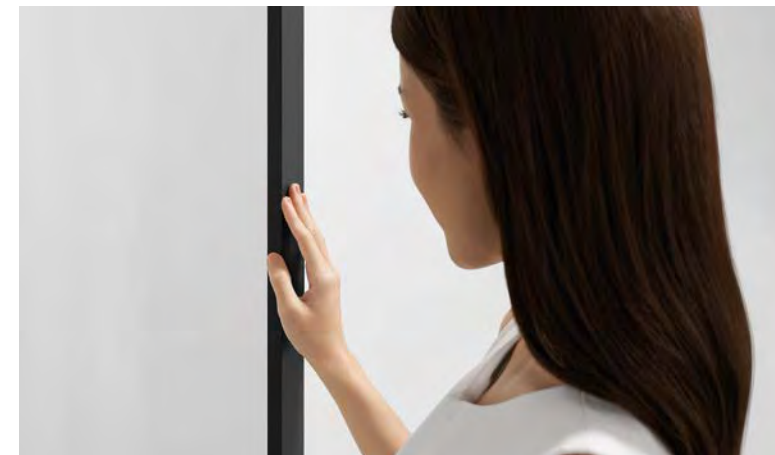
### PANEL CATCH (OPTIONAL)

Enhance functionality and minimize visual interruptions.



### FIXED DIVIDER

Designed to subtly define spaces while maintaining an open, cohesive flow. With its unified, minimal profiles and precision-engineered construction, it adds structure without disrupting natural light or sightlines.



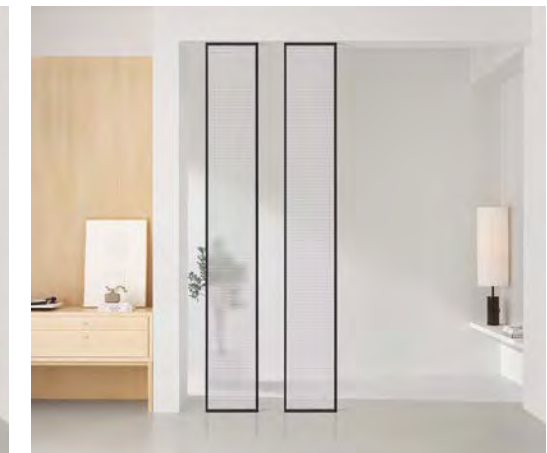
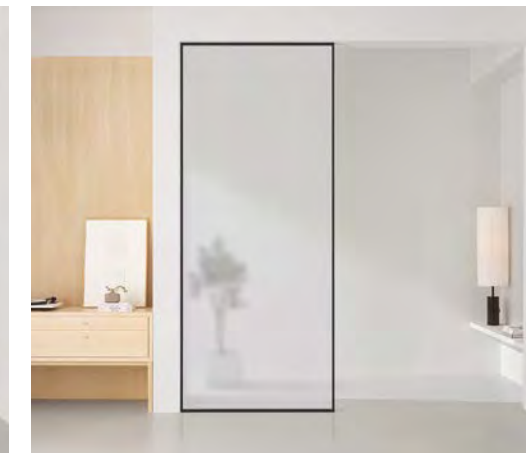
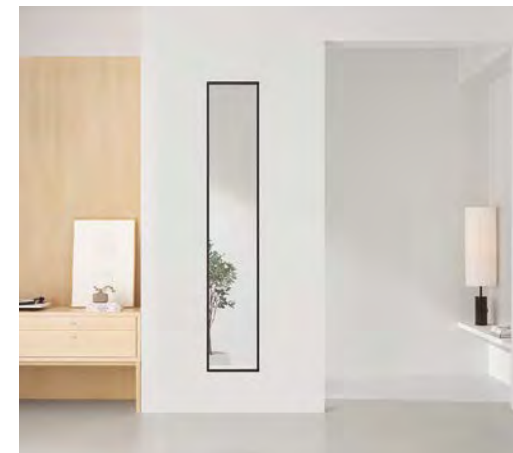
### SEAMLESS AESTHETIC

Ensuring a clean and refined appearance after installation. This attention to detail enhances its minimal profile, allowing the divider to define spaces elegantly without visual clutter.



### PANORAMIC TRANSPARENCY

Eliminate visual barriers. Seamless corner divider removes the traditional mullion to beautifully unite your interior spaces.



### ONE DIVIDER, INFINITE DESIGN

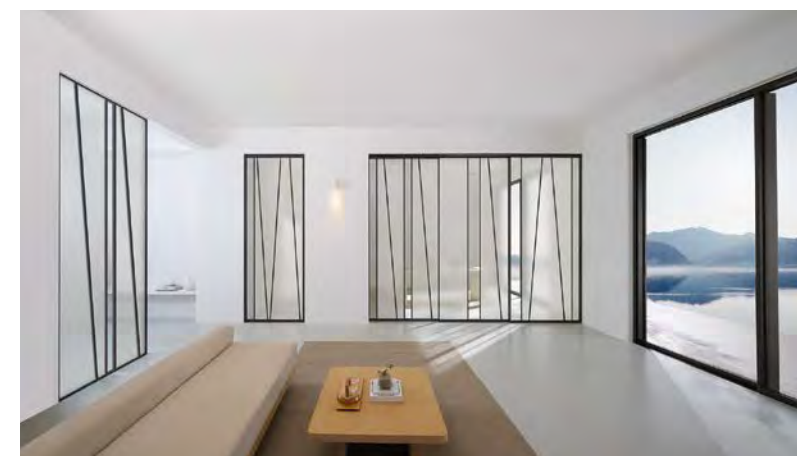
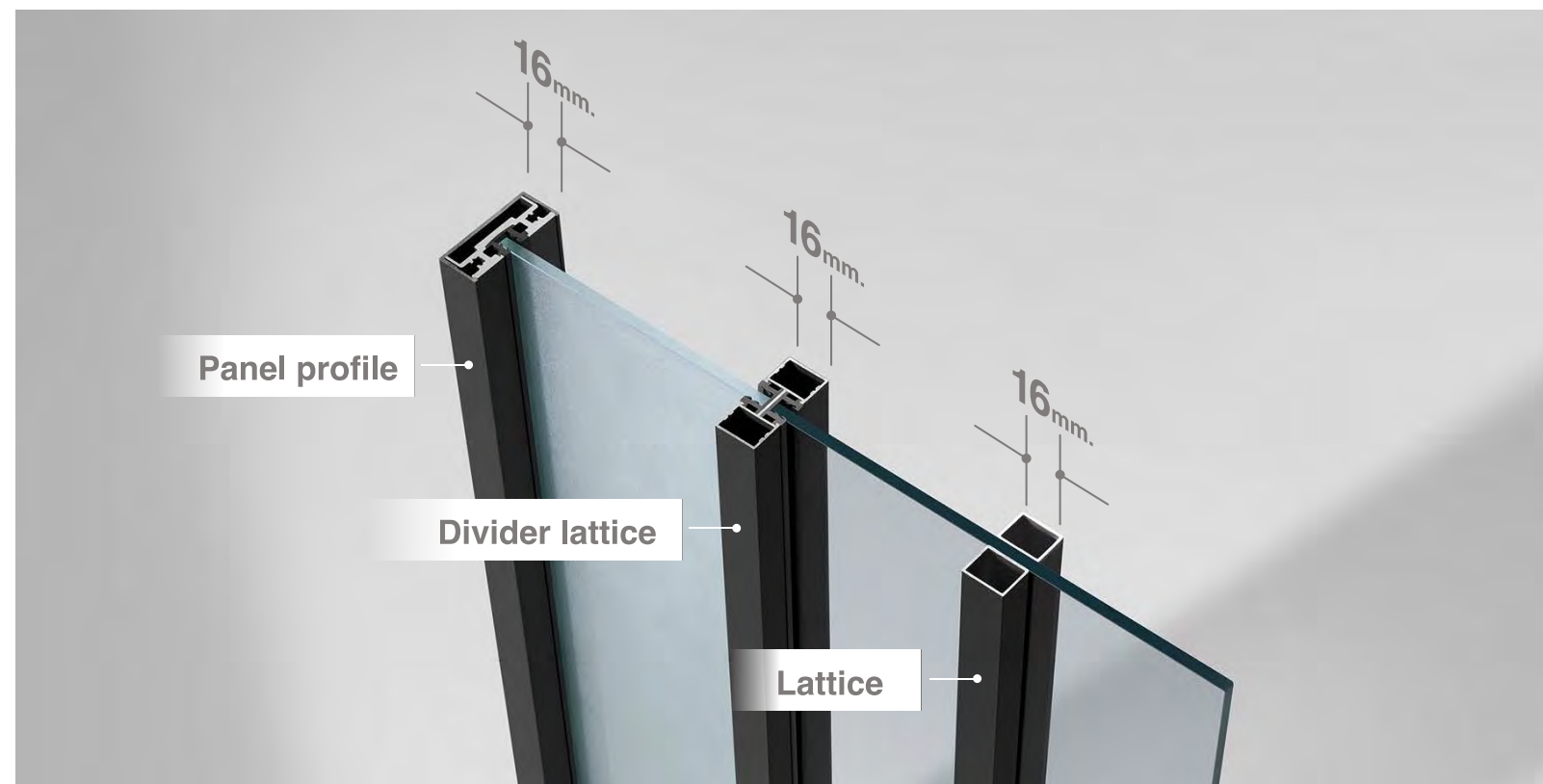
TOSTEM provides a versatile fixed divider solution that can be adapted to suit a wide range of spatial and design requirements. Whether used as a subtle room divider or a bold architectural feature, the fixed divider is designed to integrate seamlessly with your interior concept offering both functionality and visual harmony.





### CRAFT YOUR SPACE WITH IN16 SERIES

TOSTEM's IN16 interior series offers customizable lattice patterns, allowing homeowners to tailor the design to match their space. This flexibility ensures a harmonious, seamless visual flow throughout the home, enhancing both style and functions. The lattice can also be used for exterior windows and doors, extending design continuity throughout the entire living environment.



### LATTICE COLLECTION

Features unified vertical profiles that create a clean, cohesive look. You can design the arrangement of the vertical profiles to suit your personal style, while also customizing the glass texture to match the desired mood and functionality of your space. This flexibility allows for a truly tailored design that blends seamlessly with the overall architectural vision.

# IN16 Series

The simplicity through sophisticated designs that give visually serenity. It's minimalism not for less, but for more.. more connection, more harmony and more spaces that connect lives.

## SPECIFICATIONS

	HANGING DOOR	SWING DOOR	FIXED DIVIDER
FRAME DEPTH	1 Track 52 mm 2 Tracks 98 mm 3 Tracks 144 mm 4 Tracks 190 mm	50 mm	50 mm
GLASS THICKNESS	Single glass (5, 6, 8, 10 mm) Laminated glass (3+3, 4+4 mm)		

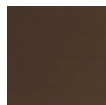
## COLORS



NATURAL  
WHITE



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



NATURAL  
BLACK

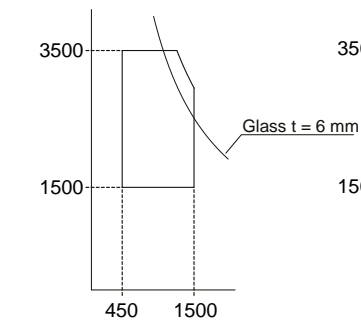
## IN16 series

### HANGING DOOR

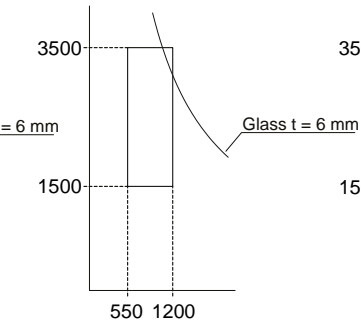


- Graph shows size limitation for 1 panel
- Jamb (optional)
- Lock (optional)
- Single glass (5,6,8,10)
- Laminated glass (3+3, 4+4)

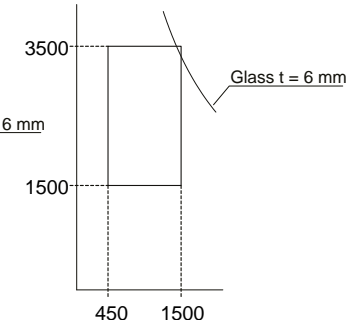
Telescopic type



Synchronized type



Detached type



### SWING DOOR

#### Pivot Hinge / Top FIX

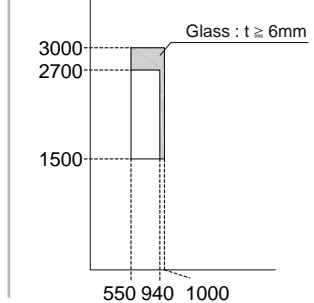
- Select from L/R
- Lock (optional)
- Panel catch (optional)
- Single glass (5,6,8,10)
- Laminated glass (3+3, 4+4)
- Combination with top FIX is available (Refer to the H1 graph for the top FIX and H2 graph for the Swing door)



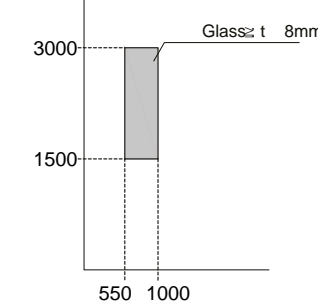
#### Floor Spring

- Single glass (5,6,8,10)
- Laminated glass (3+3, 4+4)

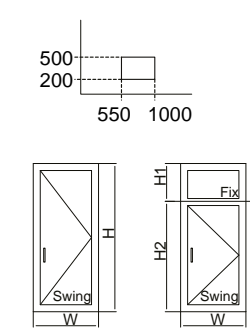
Pivot hinge without lock, divider handle, and divider lattice (H, H2)



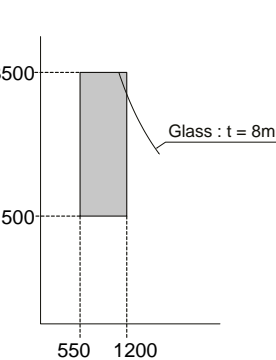
Pivot hinge with lock, divider handle, and divider lattice (H, H2)



Top FIX (H1)



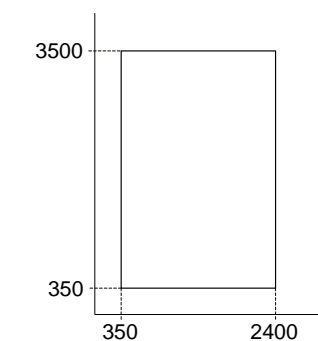
Floor spring



### FIXED DIVIDER

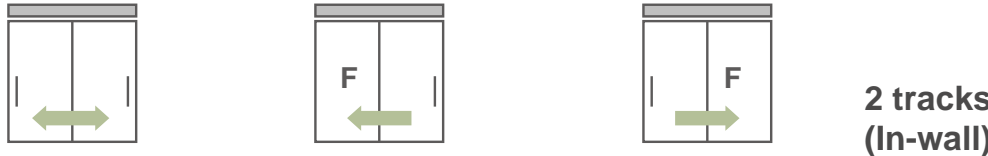
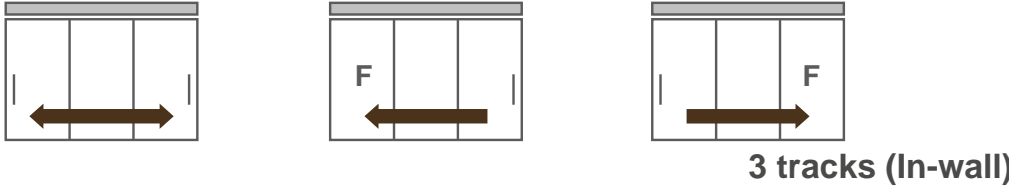
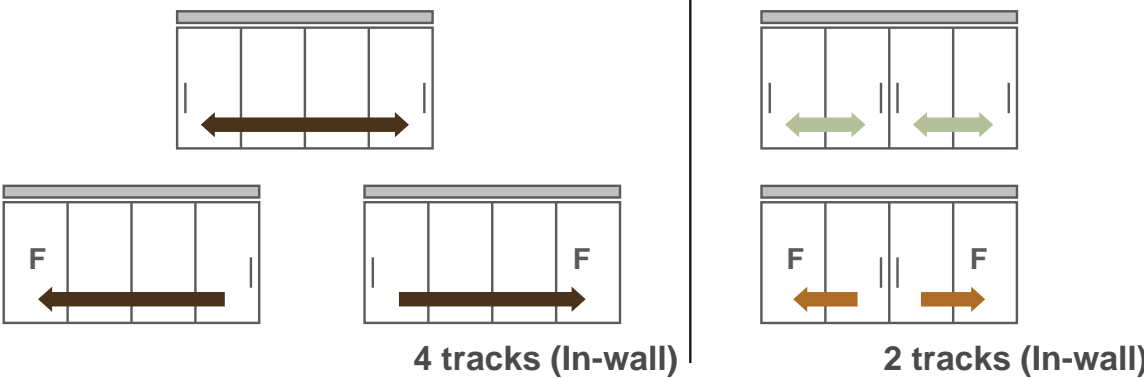
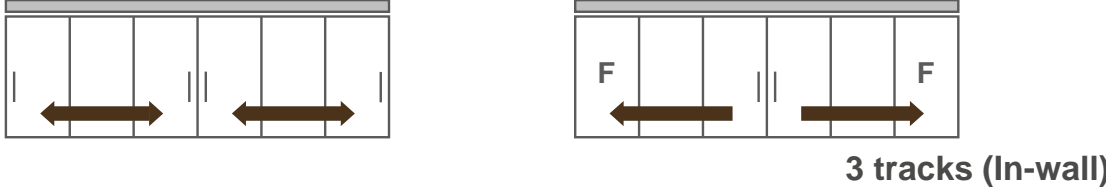
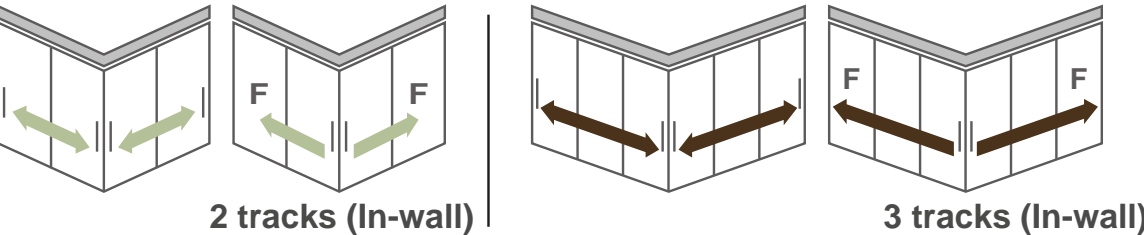



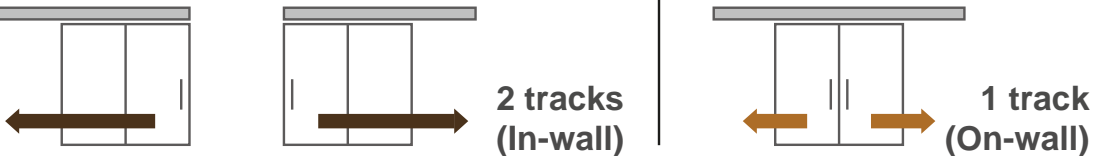
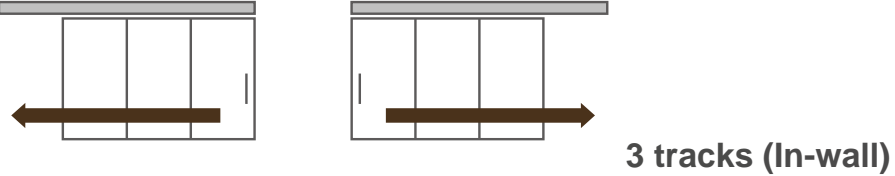
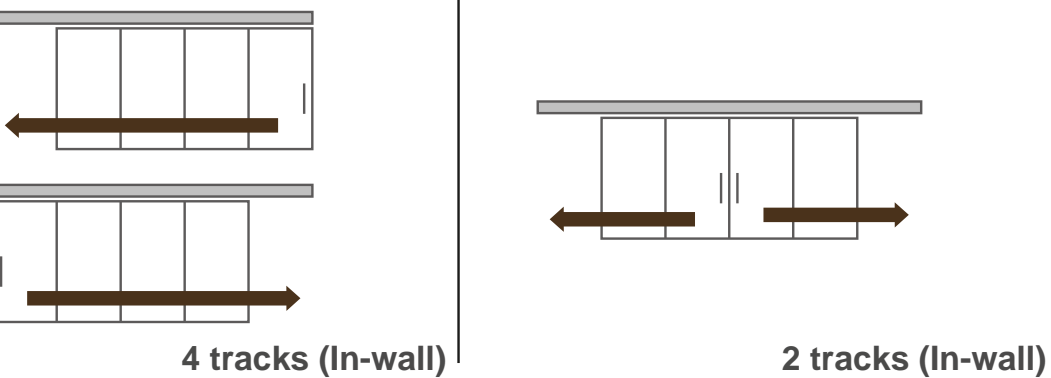
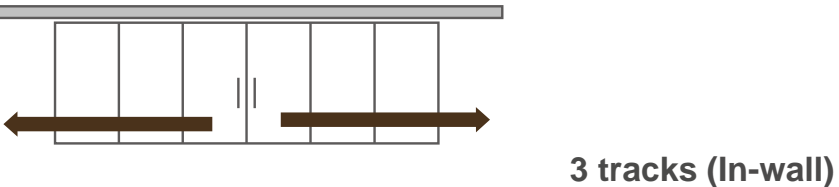
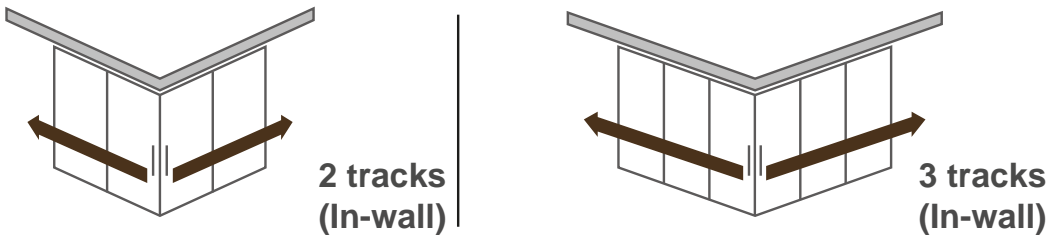
- Singles glass (5,6,8,10)
- Laminated glass (3+3, 4+4)





HANGING DOOR

	Standard rail
1 panel	
2 panels	
3 panels	
4 panels	
6 panels	
Corner	

	Long rail
1 panel	
2 panels	
3 panels	
4 panels	
6 panels	
Corner	

Telescopic / Detached Synchronized / Detached Detached



# ENTRANCE DOOR Category





## GIESTA Series

### Your sanctuary. Secured.

The moment the door closes, something changes. Traffic fades. Rain becomes a whisper. Wind loses its force.

Through precision-engineered seals and advanced insulation, Giesta is more than an entrance - it creates absolute boundary between the demands outside and the sanctuary within.

Built to withstand extreme wind pressure, engineered to seal out water, and designed to block exterior noise, Giesta ensures that inside your home, peace isn't just possible - it's guaranteed.

#### COMBINING THE WARMTH OF WOOD WITH THE PERFORMANCE OF METAL

**No warping or swelling:** Multiple use of high-grade metal construction maintains dimensional integrity in all weather conditions, unlike wooden doors that distort with humidity changes.<sup>(1)</sup>

**Fade-resistant finish:** UV-resistant wood texture laminates ensure colors remain vibrant for decades.<sup>(2)</sup>

**Minimal maintenance:** Simple cleaning maintains appearance – no sanding, repainting, or refinishing like traditional wooden doors require.

**Stable operation:** Precision engineering ensures smooth, consistent performance throughout the door's lifetime, eliminating binding and sticking.<sup>(3)</sup>

**Single-brand integration:** Every part, from locks to hinges, is an integrated Giesta component. This ensures a flawless fit and structural integrity that mismatched third-party assemblies cannot achieve.

(1) Panel material: Galvanized steel sheet SGC400 (JIS G 3302); SuperDyma® NSDC-400 (JIS G 3323 )

(2) Environmental Durability (JIS A 1415): Passed 2,000-hour Sunshine Weather Meter test (Equivalent to 10 years in outdoor environments).

(3) Operational Durability (JIS A 1530): Passed 200,000 Opening/Closing testing cycles (Equivalent to 20 years at 30 uses/day).





Simple and  
minimalistic

P-Models



P01

P02

P03

## Wood Pattern



Turin  
Pine

Crea  
Mocha

Crea  
Rusk

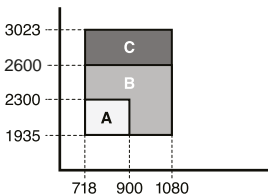
Teak

**New!**  
Chestnut

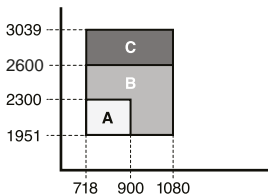
SINGLE



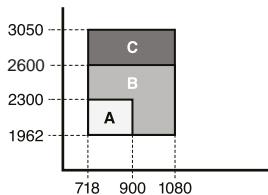
IN-SWING (no sill)



IN-SWING



OUT-SWING



WITH SIDELIGHT

Width of sidelight (SW)

$1034 \leq W \leq 1248$  : SW = 304

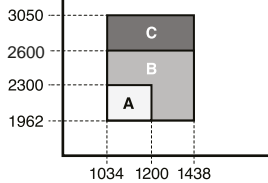
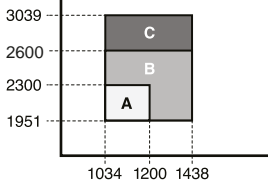
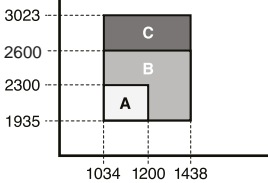
$1249 \leq W \leq 1438$  : SW = 346



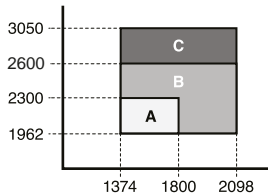
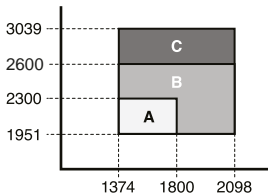
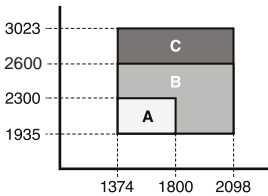
with glass



without glass



DOUBLE



\* A / B / C indicate price changing points (A<B<C)

## Aluminum Pattern



Polish  
Silver

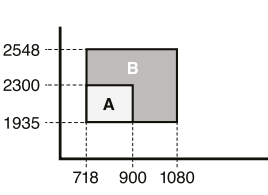
Silky  
White

Autumn  
Brown

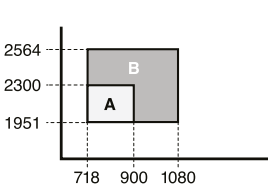
SINGLE



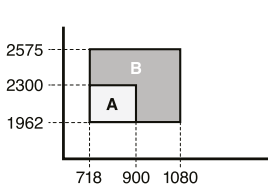
IN-SWING (no sill)



IN-SWING



OUT-SWING



WITH SIDELIGHT

Width of sidelight (SW)

$1034 \leq W \leq 1248$  : SW = 304

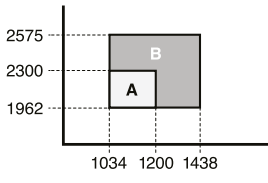
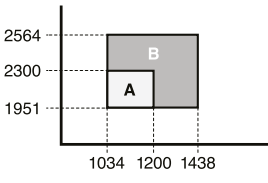
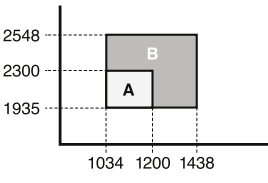
$1249 \leq W \leq 1438$  : SW = 346



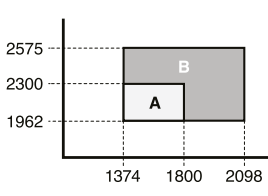
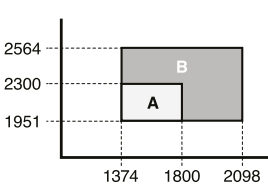
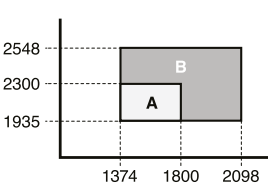
with glass



without glass



DOUBLE



\* A / B indicate price changing points (A<B)





Modern but  
traditional

D-Models



D01

D02

D03

D04 **New design!**

## Wood Pattern

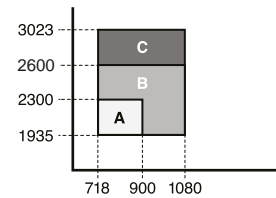


Turin Pine   Crea Mocha   Crea Rusk   Teak   **New!** Chestnut

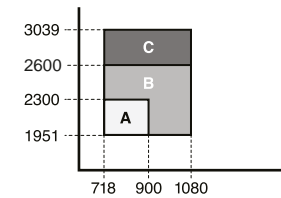
### SINGLE



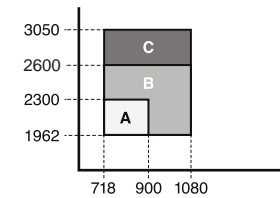
IN-SWING (no sill)



IN-SWING



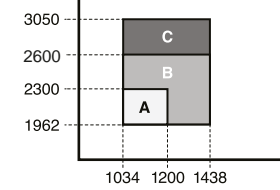
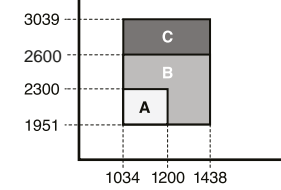
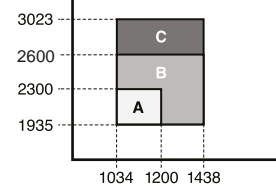
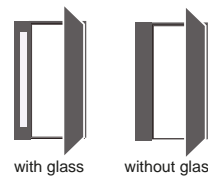
OUT-SWING



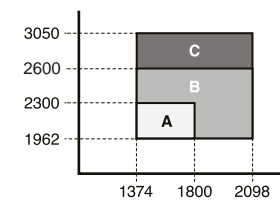
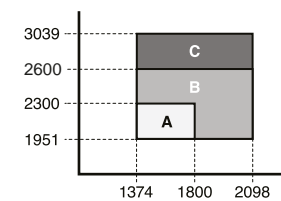
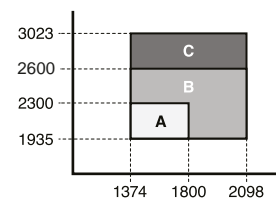
### WITH SIDELIGHT

Width of sidelight (SW)

1034 ≤ W ≤ 1248 : SW = 304  
1249 ≤ W ≤ 1438 : SW = 346



### DOUBLE



Aluminum patterns are not available for the D-Models

\* A / B / C indicate price changing points (A<B<C)

## Introducing a new look of modern minimalism

Our new **D04 design** has joined the lineup of our popular D-Models.

A Japanese modern design features a fresh take on the traditional lattice. By arranging slender, randomized slats that flow seamlessly from edge to edge, it creates a unique sense of continuity.







# Glass with style

G-Models



## Wood Pattern

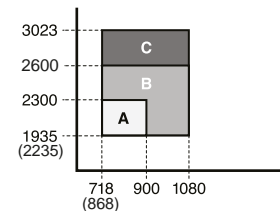


Turin Pine   Crea Mocha   Crea Rusk   Teak   **New!** Chestnut

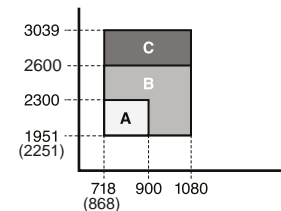
SINGLE



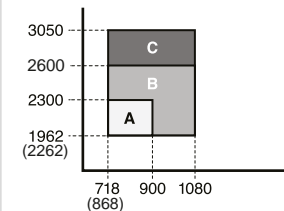
IN-SWING (no sill)



IN-SWING



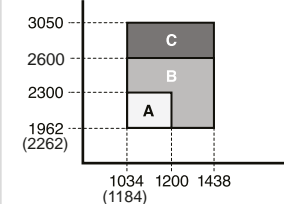
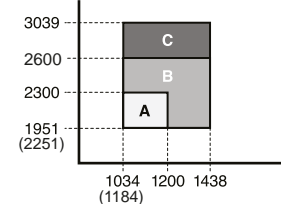
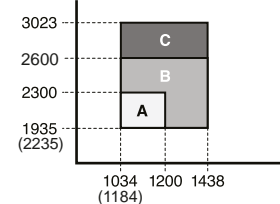
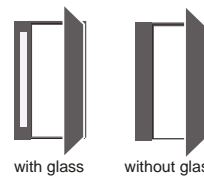
OUT-SWING



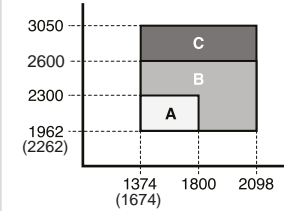
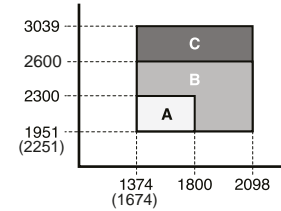
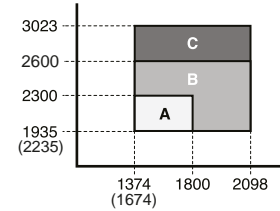
WITH SIDELIGHT

Width of sidelight (SW)

1034 (1184) ≤ W ≤ 1248 : SW = 304  
1249 ≤ W ≤ 1438 : SW = 346



DOUBLE



\* A / B / C indicate price changing points (A<B<C) | \*\* Dimensions indicated in ( ) are the minimum dimensions for the G01 design

## Aluminum Pattern

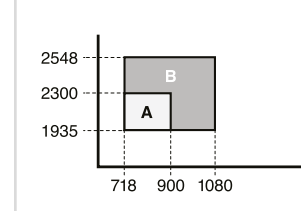


Polish Silver   Silky White   Autumn Brown

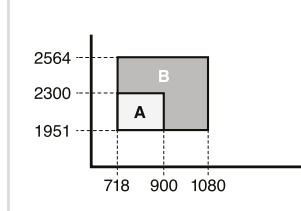
SINGLE



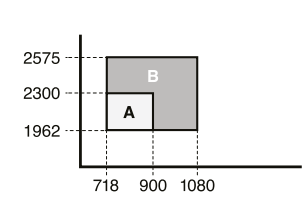
IN-SWING (no sill)



IN-SWING



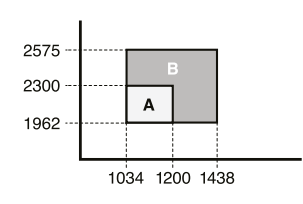
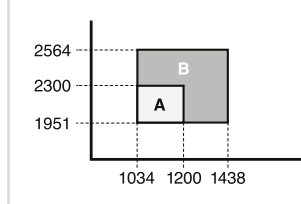
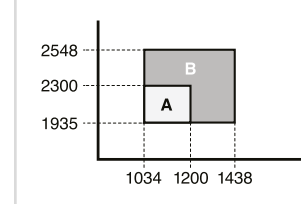
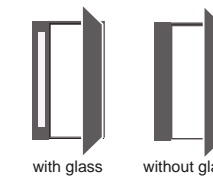
OUT-SWING



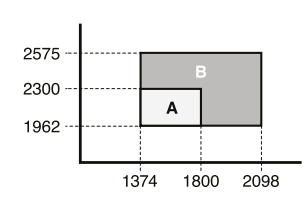
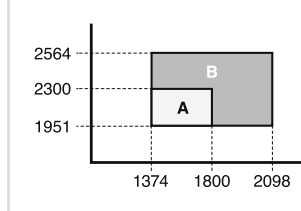
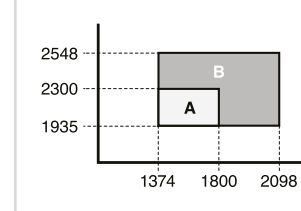
WITH SIDELIGHT

Width of sidelight (SW)

1034 ≤ W ≤ 1248 : SW = 304  
1249 ≤ W ≤ 1438 : SW = 346



DOUBLE



\* A / B indicate price changing points (A<B) | \*\* Aluminum pattern not available for G01 and G05 designs





# Comfort with minimal design

A-Model



A01



Airflow for our entire home

## Wood Pattern



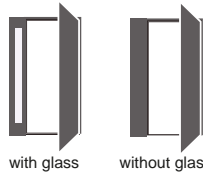
Turin Pine Crea Mocha Crea Rusk Teak **New!** Chestnut

### SINGLE



### WITH SIDELIGHT

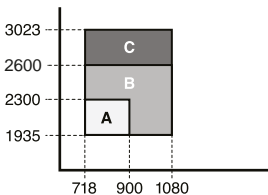
Width of sidelight (SW)  
1034 ≤ W ≤ 1248 : SW = 304  
1249 ≤ W ≤ 1438 : SW = 346



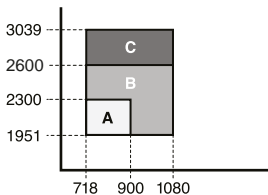
### DOUBLE



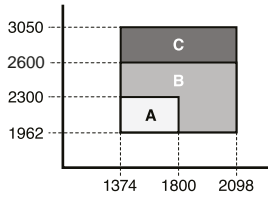
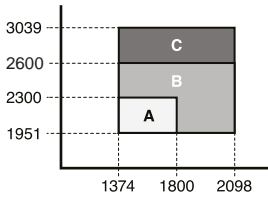
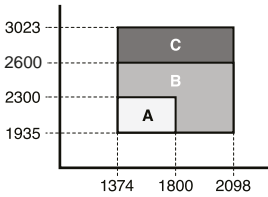
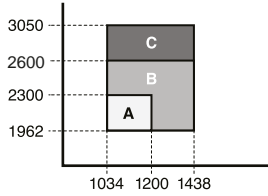
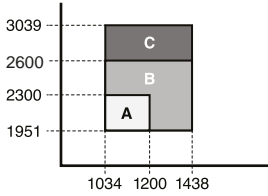
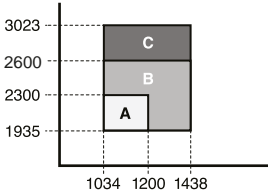
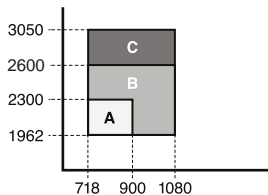
#### IN-SWING (no sill)



#### IN-SWING



#### OUT-SWING



Aluminum patterns are not available for the A-Model

\* A / B / C indicate price changing points (A<B<C)

Breathe easy.  
Stay secure.

Experience natural ventilation without compromise. The **Giesta A-Model with Airflow** integrates a precision-engineered ventilation panel and insect screen into our premium wood-pattern multi-metal structure, delivering fresh air circulation while the multi-point lock system keeps your home protected - even with airflow engaged.



### Easy opening and closing

The Airflow window can be opened to the interior side with a simple single-hand multi-lock operation.



### Uncompromised security

With the multi-lock system, let the air in while keeping everything else outside.



### Integrated mosquito screen

Keeps mosquitos and pests out of your home.



### Easy to clean

Spray water from the exterior side onto the mosquito screen while keeping the Airflow window and door closed.







# Classic charm

C-Model



C01 New product!



Double-sided molding design delivers elegance to both your home's facade and interior.

## Wood Pattern

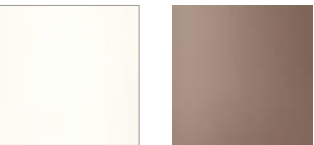


Turin Pine   Crea Mocha   Crea Rusk   Teak   **New!** Chestnut

		IN-SWING (no sill)	IN-SWING	OUT-SWING
SINGLE				
WITH SIDELIGHT	 Width of sidelight (SW) $1034 \leq W \leq 1248$ : SW = 304 $1249 \leq W \leq 1438$ : SW = 346			
DOUBLE				

\* A / B / C indicate price changing points (A<B<C)

## Aluminum Pattern



Silky White   Autumn Brown

		IN-SWING (no sill)	IN-SWING	OUT-SWING
SINGLE				
WITH SIDELIGHT	 Width of sidelight (SW) $1034 \leq W \leq 1248$ : SW = 304 $1249 \leq W \leq 1438$ : SW = 346			
DOUBLE				

\* A / B indicate price changing points (A<B)





## Specifications

### Frame depth

101.6 mm

### Height of sill

Out-Swing 50 mm

In-Swing outside 30 / inside 14 mm

### Door frame

Top and side frame:

- Wood pattern type: Resin laminated sheet wrapping on aluminum
- Aluminum pattern type: Anodized or powder-coated aluminum

Sill: Anodized aluminum

### Door panel

- ① Core material: Galvanized steel
- ② Panel material:
  - Galvanized steel sheet SGC400 (JIS G 3302)
  - SuperDyma® NSDC-400 (JIS G 3323)
- ③ Wrapping sheet:
  - Wood pattern type: (external) resin laminated sheet / (internal) anti-epoxy coating
  - Aluminum pattern type: Anodized or powder coated

Inner core: Polystyrene (EPS foam)

Glass: G-Models: Insulating glass thickness 23 mm (clear 3 + air gap 16 + patterned glass 4); A-Model: Insulating glass 18 mm (clear 3 + air gap 11 + patterned 4)

## Performance



Wind Pressure

S-2 (1200PA)  
(JIS A 1515)



Water Tightness

W-2 (150PA)  
(JIS A 1517)



Air Tightness

A-4 (2)  
(JIS A 1516)

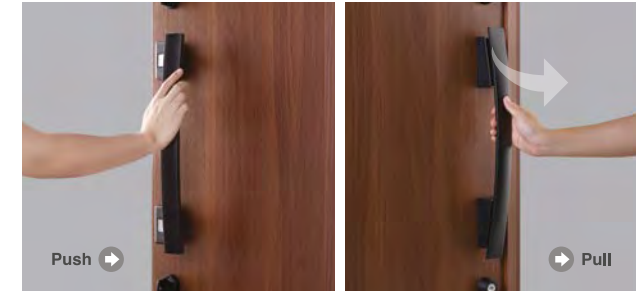


Noise Insulation

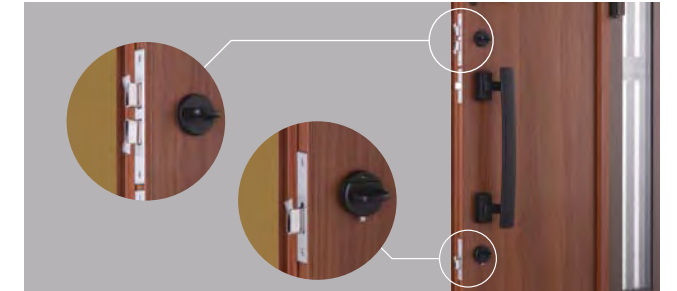
T-1(25dB)  
(JIS A 1416)\*

\* Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

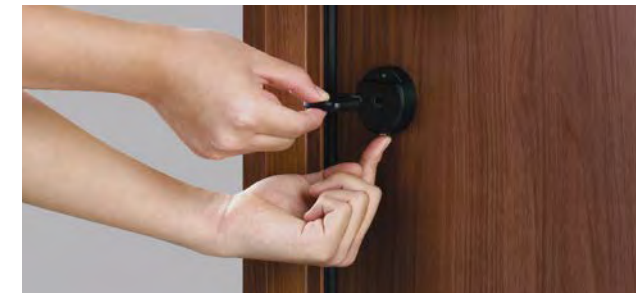
## Unique features



Easy operation with Push-Pull bar handles - just push or pull to open after unlocking



2 locks that control 3 latches



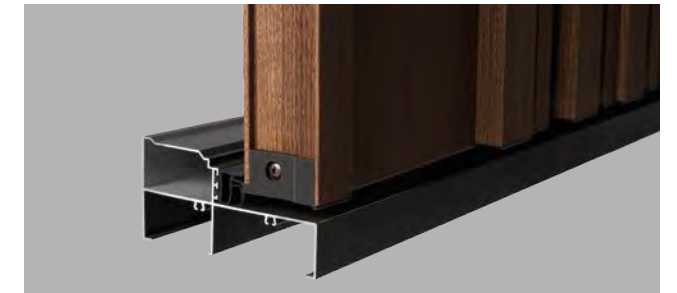
Removable key head inside to prevent unlocking in case of burglary



Lock-unlock with ease with reversible key



Frame sealed with watertight and anti-pinch rubber



Door filled with insulation material for heat prevention and noise insulation

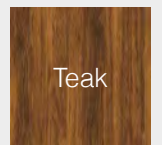


### UZUKURI - THE ART OF TOUCH

In traditional Japanese woodworking, Uzukuri is the meticulous art of raising wood grain through hand-polishing - creating texture you can see and feel.

Our Teak and Chestnut finishes recreate this refined technique through advanced laminate engineering, delivering the tactile pleasure of natural wood with lasting performance.

Every touch of your Giesta door connects Japanese heritage to contemporary innovation.















Teak











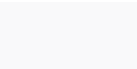




Chestnut

Handles

BAR HANDLE Type A	BAR HANDLE Type F	LEVER HANDLE Type K	LEVER HANDLE Type L
 outside    inside	 outside    inside	 outside/ inside	 outside/ inside
 Polish Silver	 Polish Silver	 Satin Gold	 Polish Silver
 Silky Matte Black	 Silky Matte Black	 Silky Matte Black	 Silky Matte Black
Applicable to Out-Swing doors only	Applicable to Out-Swing doors only	Applicable to Out-Swing and In-Swing doors	Applicable to Out-Swing and In-Swing doors


DIGITAL HANDLE WS200	DIGITAL HANDLE WG430	BAR HANDLE Type V
 outside    inside	 outside    inside	 outside    inside
 Silver	 Silver	 Silver
 Black	 Black	 Black
Applicable to Out-Swing and In-Swing doors	Applicable to Out-Swing doors only	Applicable to In-Swing doors only

Accessories


OUT-SWING DOOR Door closer	Door guard	IN-SWING DOOR Door closer	Door guard
			
 Autumn Brown	 Shine Gray	 Blast Silver	 Satin Gold
 Natural White	 Silky Matte Black	 Autumn Brown	 Shine Gray
 Silver			
Aluminum	Aluminum	Aluminum	Aluminum

# CYLINDER LOCK


outside




inside




Thumb turn is in handle box cylinder.  
Construction keys: 3 / Owner keys: 5



Blast Silver



Satin Gold



Silky Matte Black

Steel





# ALUMINUM EXTERIOR Category



# FENCE & GATE EXTERIOR Series

FENCE & GATE is a perfect fencing choice for your residence.

Our fence and gate solutions will enhance the look, feel and overall value of your property, while providing safety and security your family.

## FEATURES



ULTRA  
LIGHTWEIGHT



IMPACT TEST



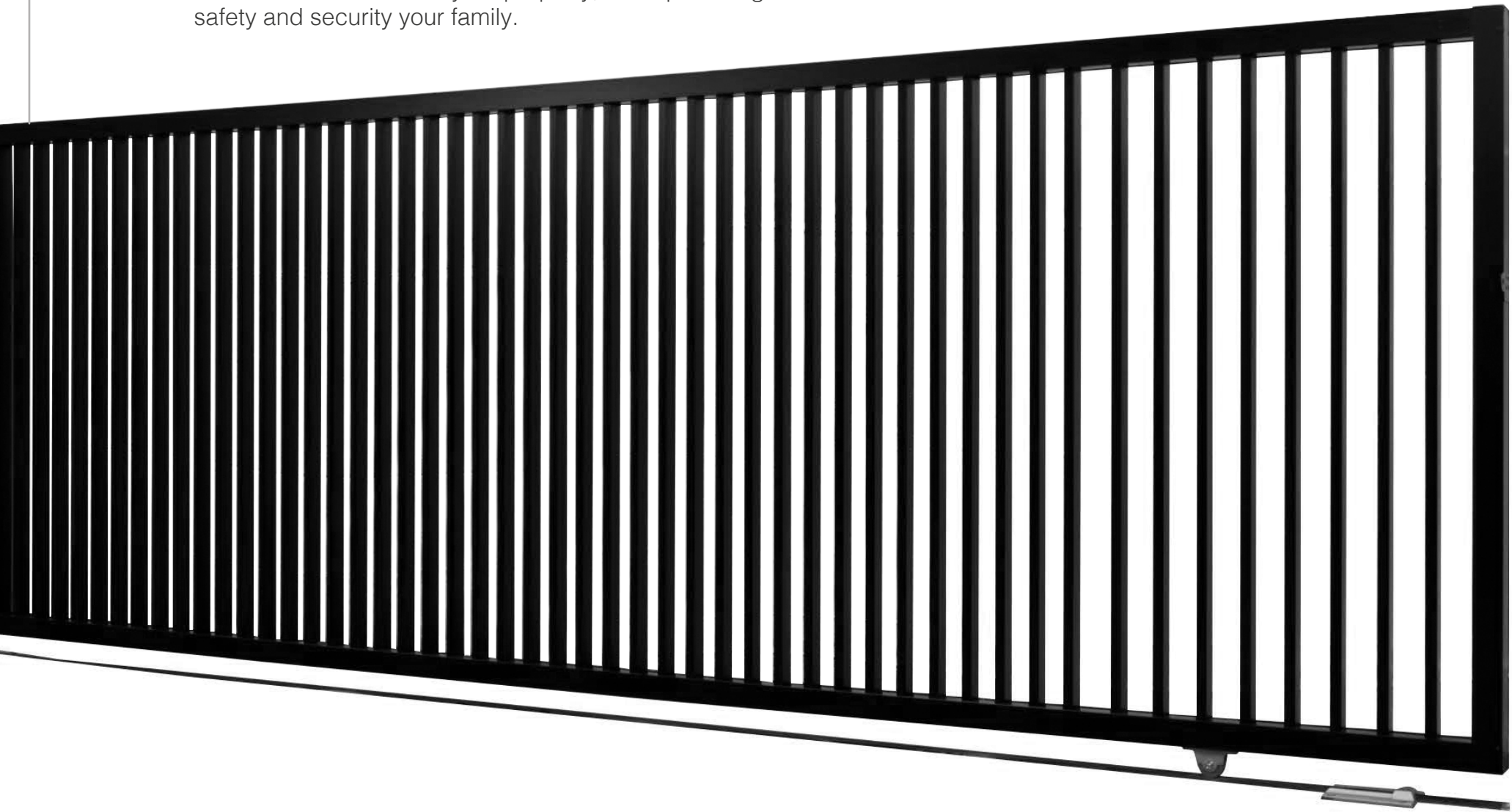
EFFORTLESS  
MOVEMENT



LOW  
MAINTENANCE



ANTI-RUST  
DURABILITY



## COLORS



NATURAL SILVER



SHINE GRAY



AUTUMN BROWN




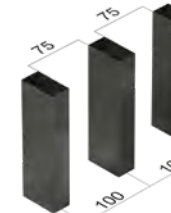

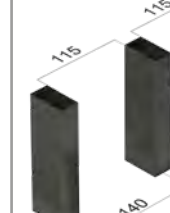

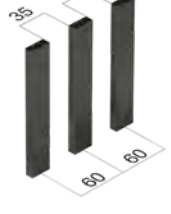
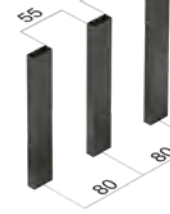
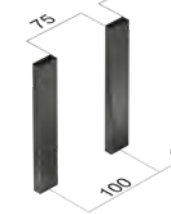

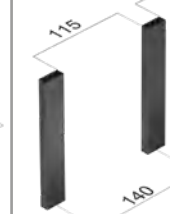


NATURAL BLACK



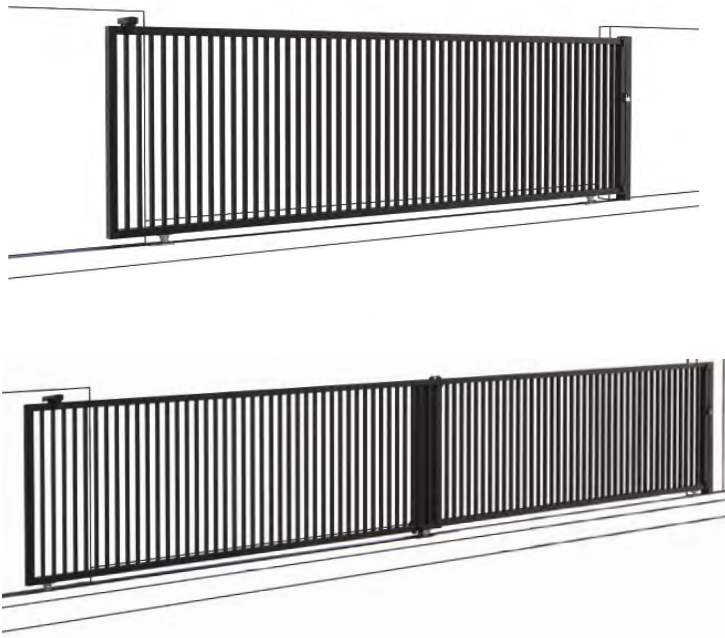
DUSK GRAY

## LATTICE PATTERN

SHAPE OF LATTICE	PITCH 60	PITCH 80	PITCH 100	PITCH 120	PITCH 140
SLIDING GATE 					
FOLDING GATE / SWING GATE / FENCE 					



# SLIDING GATE



SINGLE SLIDING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	2,100 mm	5,600 mm
HEIGHT (Product height)	1,200 mm	2,000 mm

DOUBLE SLIDING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	5,000 mm	8,000 mm
HEIGHT (Product height)	1,200 mm	1,600 mm

\* Please see reference drawing for detail

# UNIQUE FEATURES



Square pipe design provides strength and durability

Durable stainless-steel wheel and track enable light and smooth gliding.



Wheel stopper ensures stop and hold when gate is closed



Panel guide for safety to hold panel when gliding for single panel type



Panel guide to hold both panels when gliding for safety for double panels type



# FOLDING GATE



4 PANELS FOLDING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	3,000 mm	4,900 mm
HEIGHT (Product height)	1,200 mm	1,600 mm

6 PANELS FOLDING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	4,300 mm	6,000 mm
HEIGHT (Product height)	1,200 mm	1,600 mm

\* Please see reference drawing for detail

# UNIQUE FEATURES



HINGES

ROLLERS

DROP ROD

# SWING GATE



SINGLE SWING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	600 mm	1,100 mm
HEIGHT (Product height)	1,200 mm	1,600 mm
DOUBLE SWING GATE	MINIMUM	MAXIMUM
WIDTH (Opening width)	1,080 mm	2,080 mm
HEIGHT (Product height)	1,200 mm	1,600 mm

\* Please see reference drawing for detail

# UNIQUE FEATURES



HINGES



DROP ROD

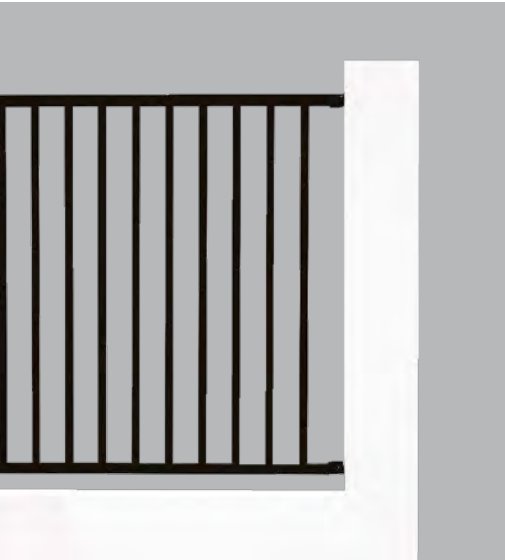
# FENCE



	MINIMUM	MAXIMUM
WIDTH (Opening width)	500 mm	2,000 mm
HEIGHT (Product height)	600 mm	1,200 mm

\* Please see reference drawing for detail

# UNIQUE FEATURES



Minimalist slim design yet sturdy. Wall anchor can be adjusted up to 7.5 mm



Straight and corner type fence jointer available. Adjustable from 90-180 degrees

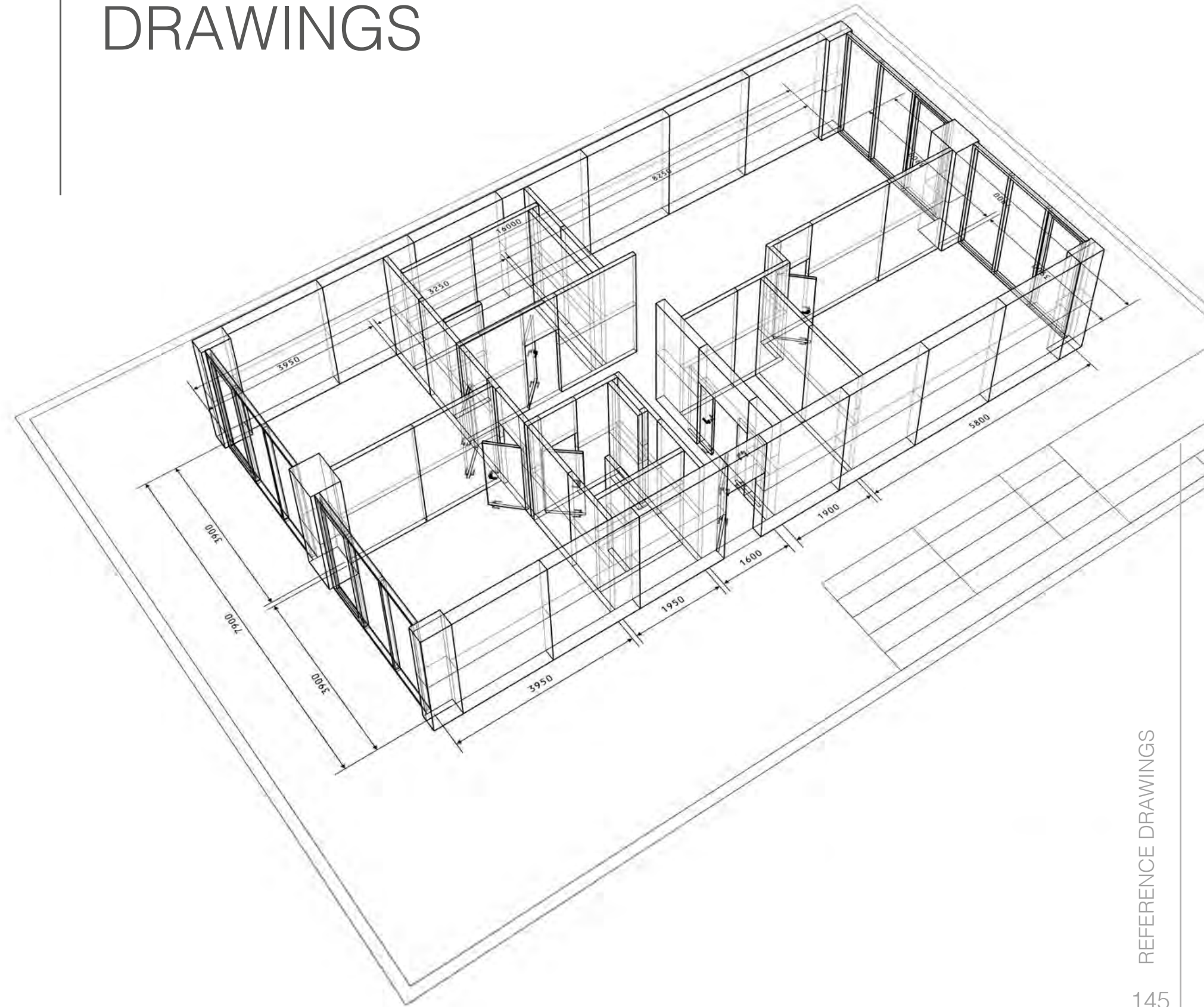


Fence post with concrete surface mount with cover. Set-in-concrete type also available





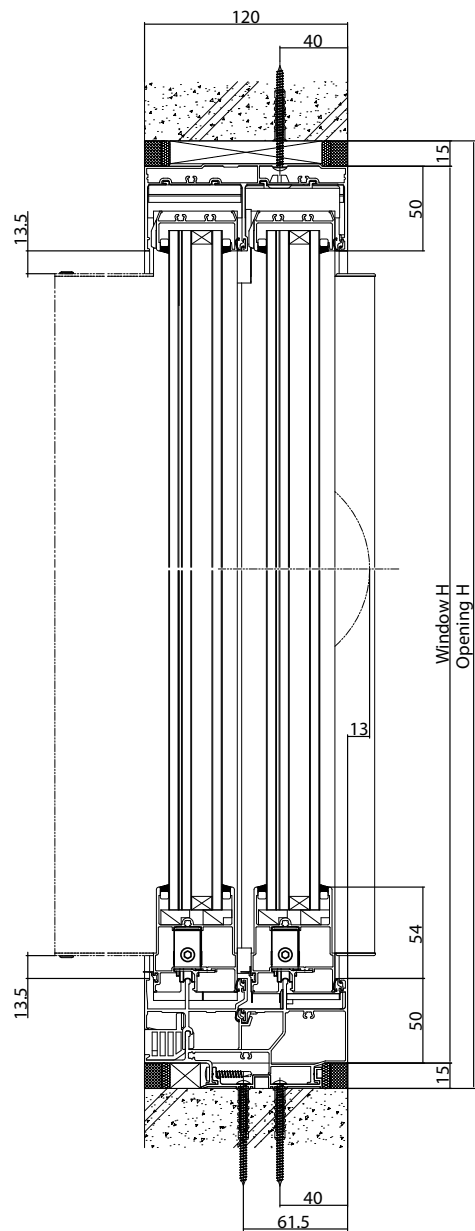
## REFERENCE DRAWINGS



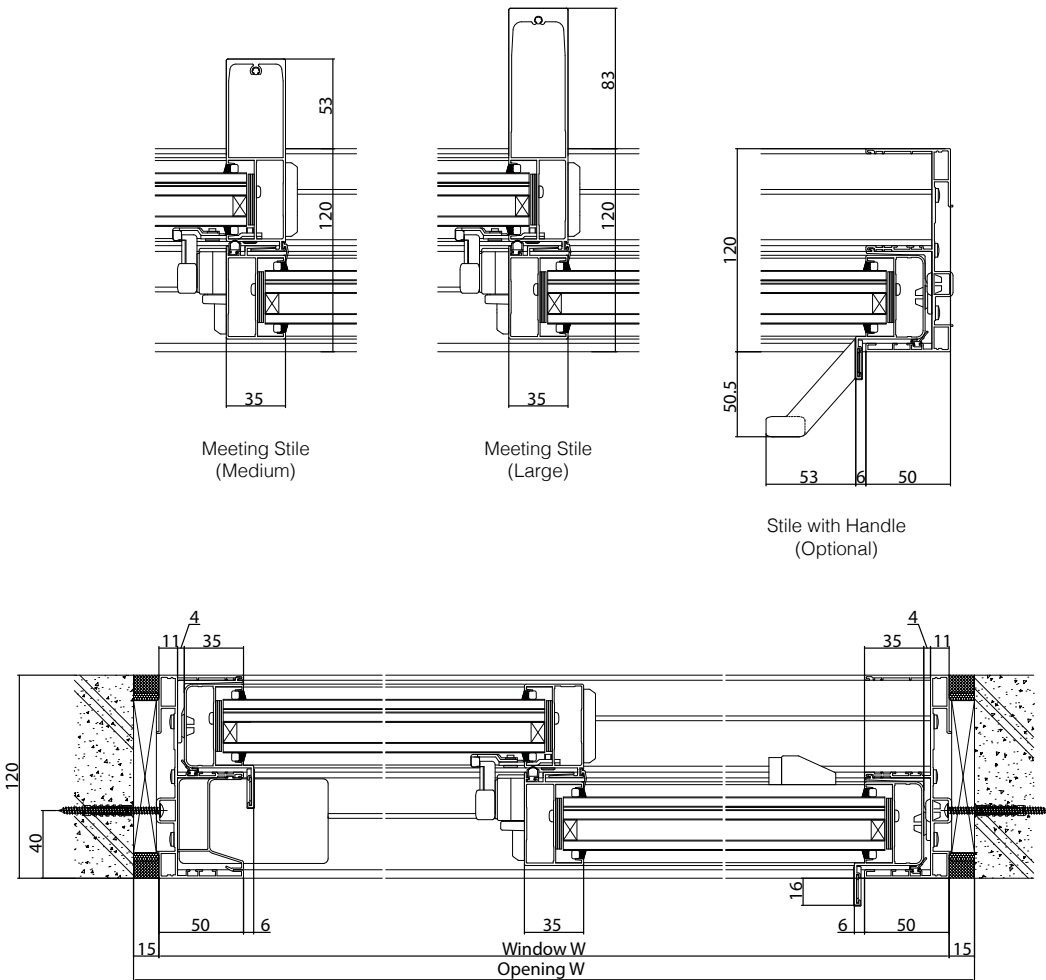


# GRANTS PLUS

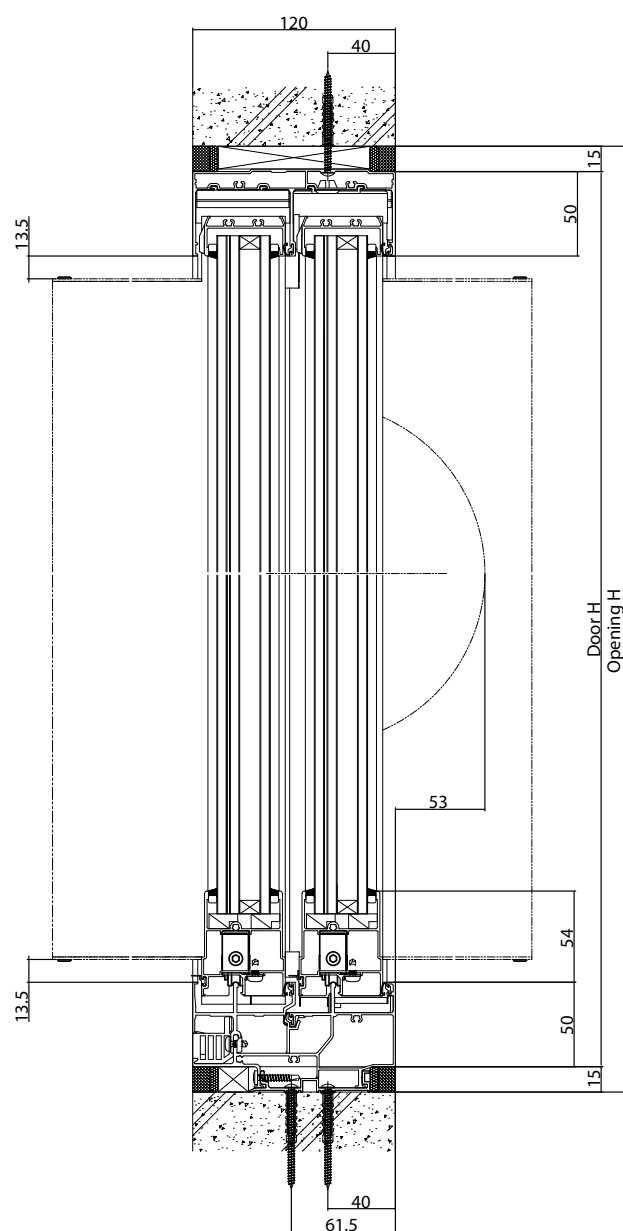
## SLIDING (2P2T)



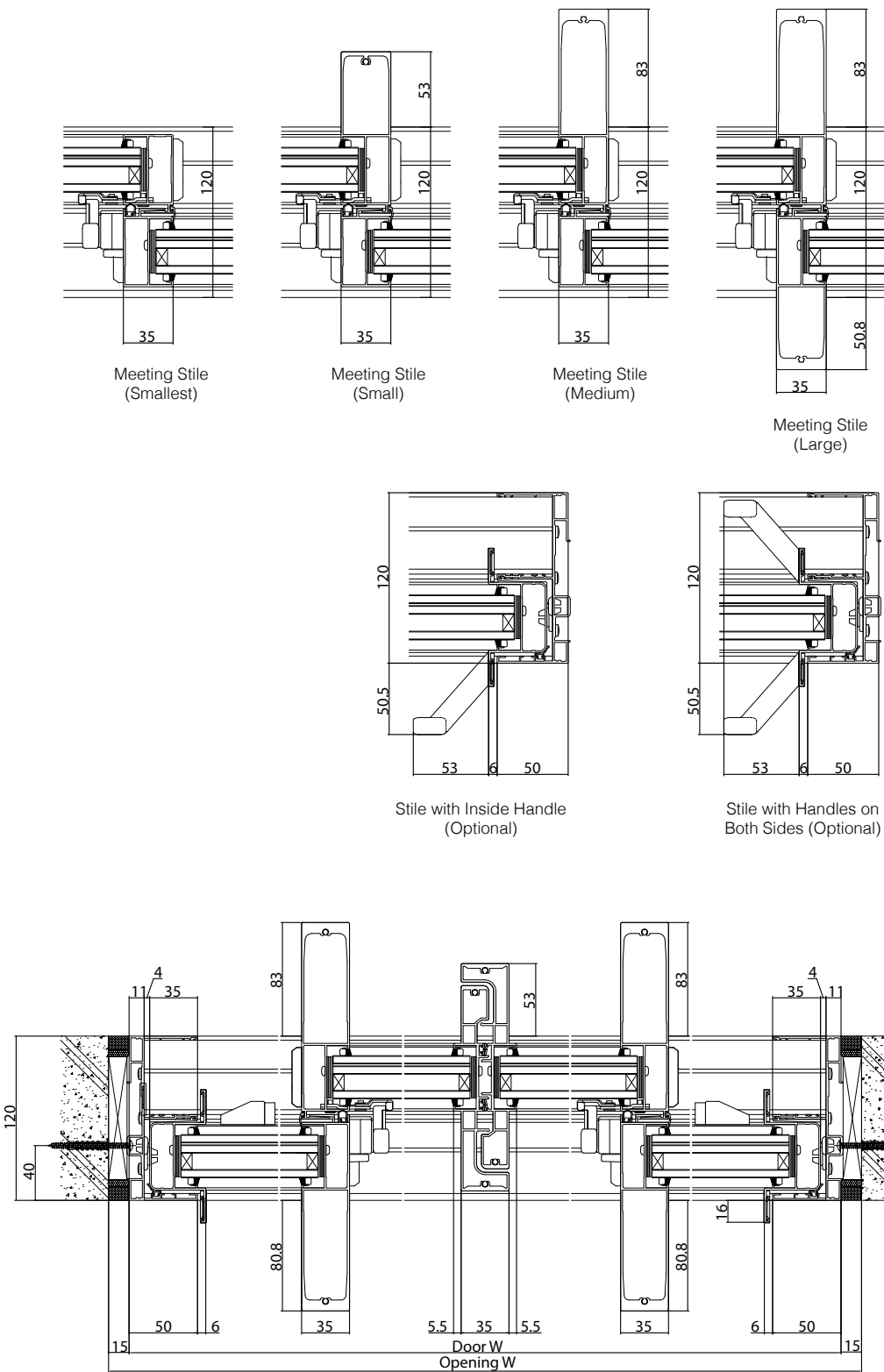
Vertical section: Sliding window  
(2 panels on 2 tracks)



Horizontal section: Sliding window (2 panels on 2 tracks)



Vertical section: Sliding door  
(2 panels on 2 tracks)

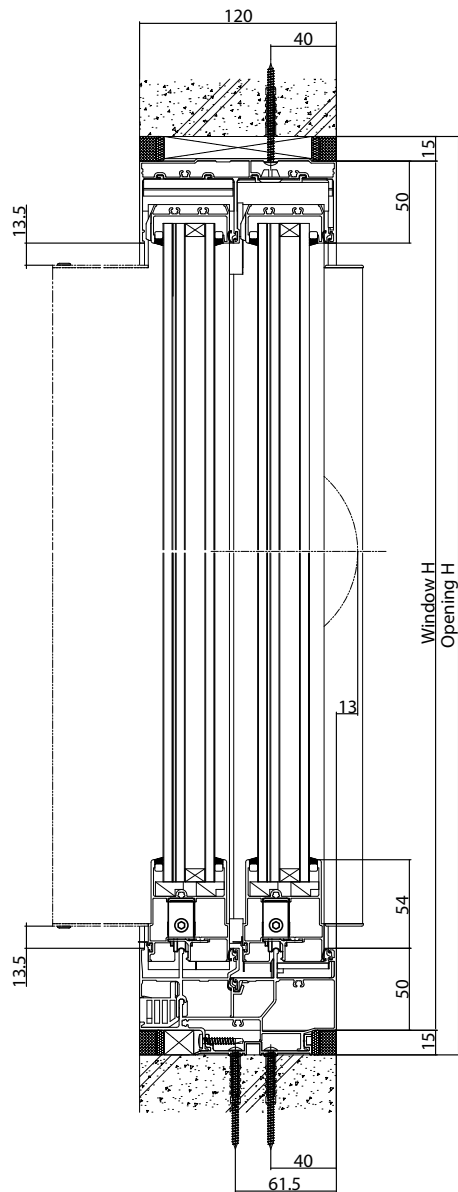


Horizontal section: Sliding door (4 panels on 2 tracks)

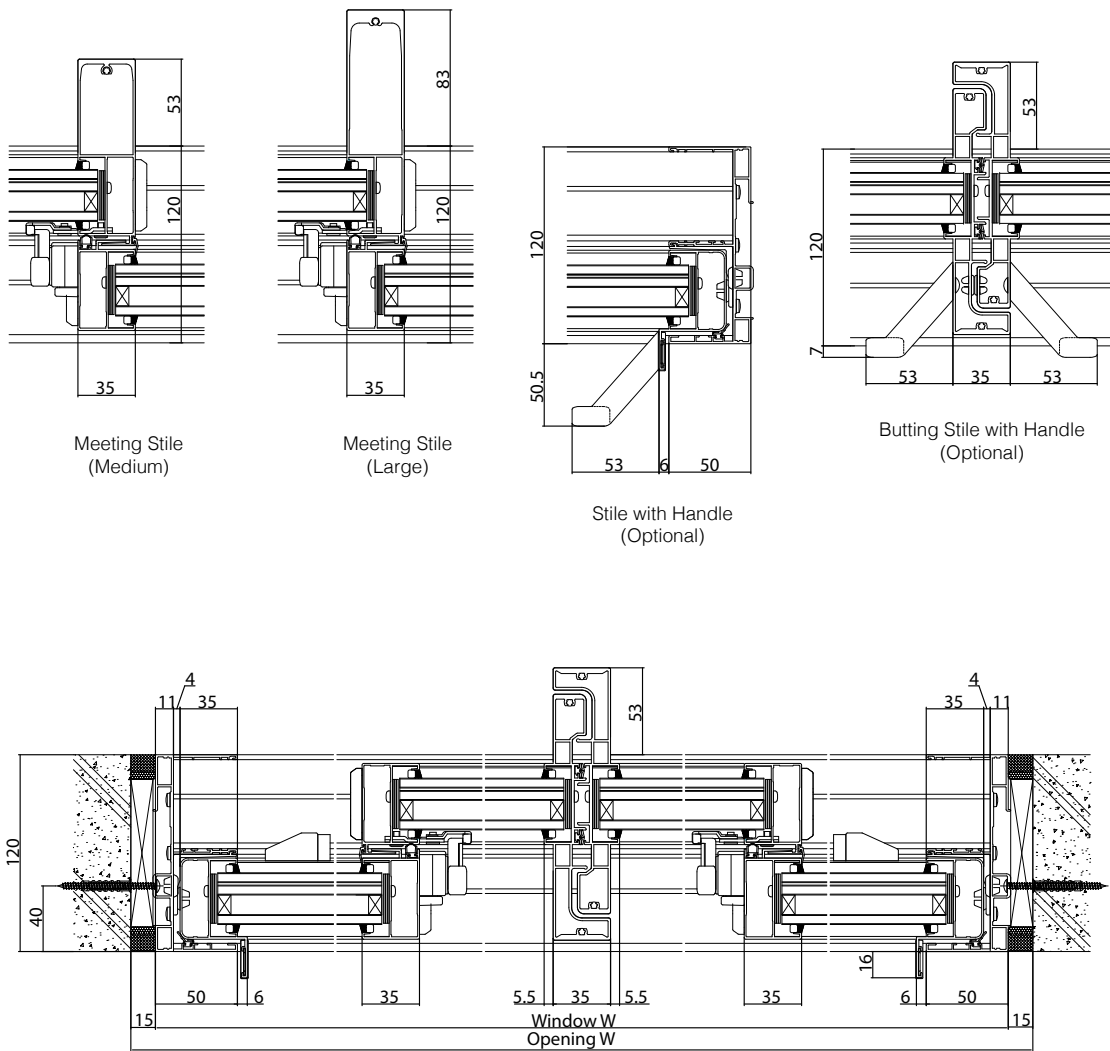


# GRANTS PLUS

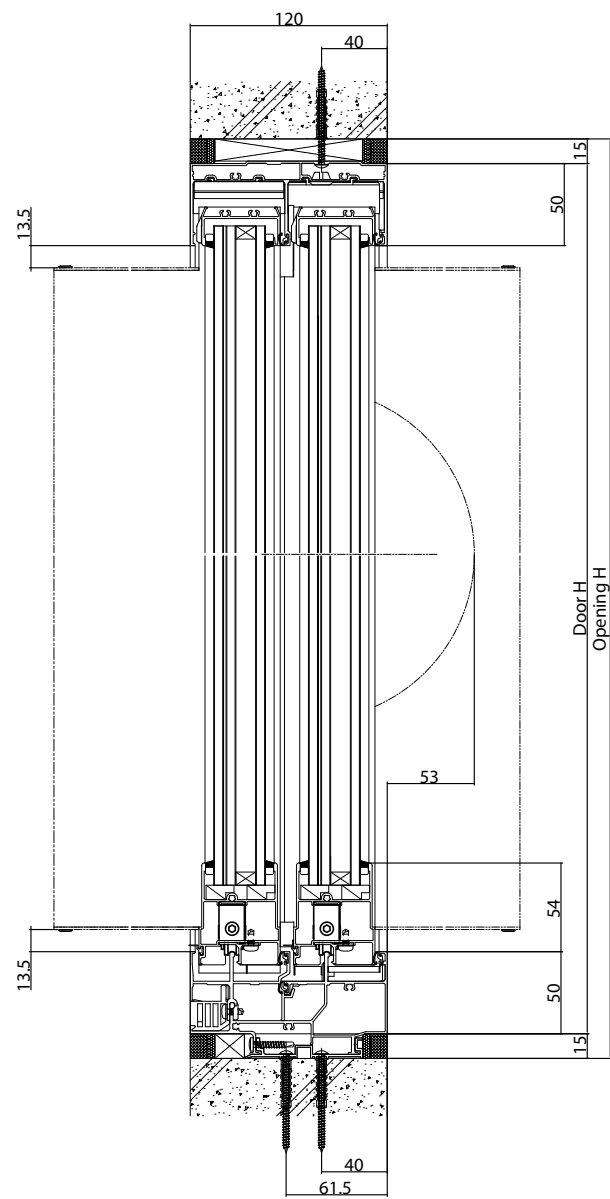
## SLIDING (4P2T)



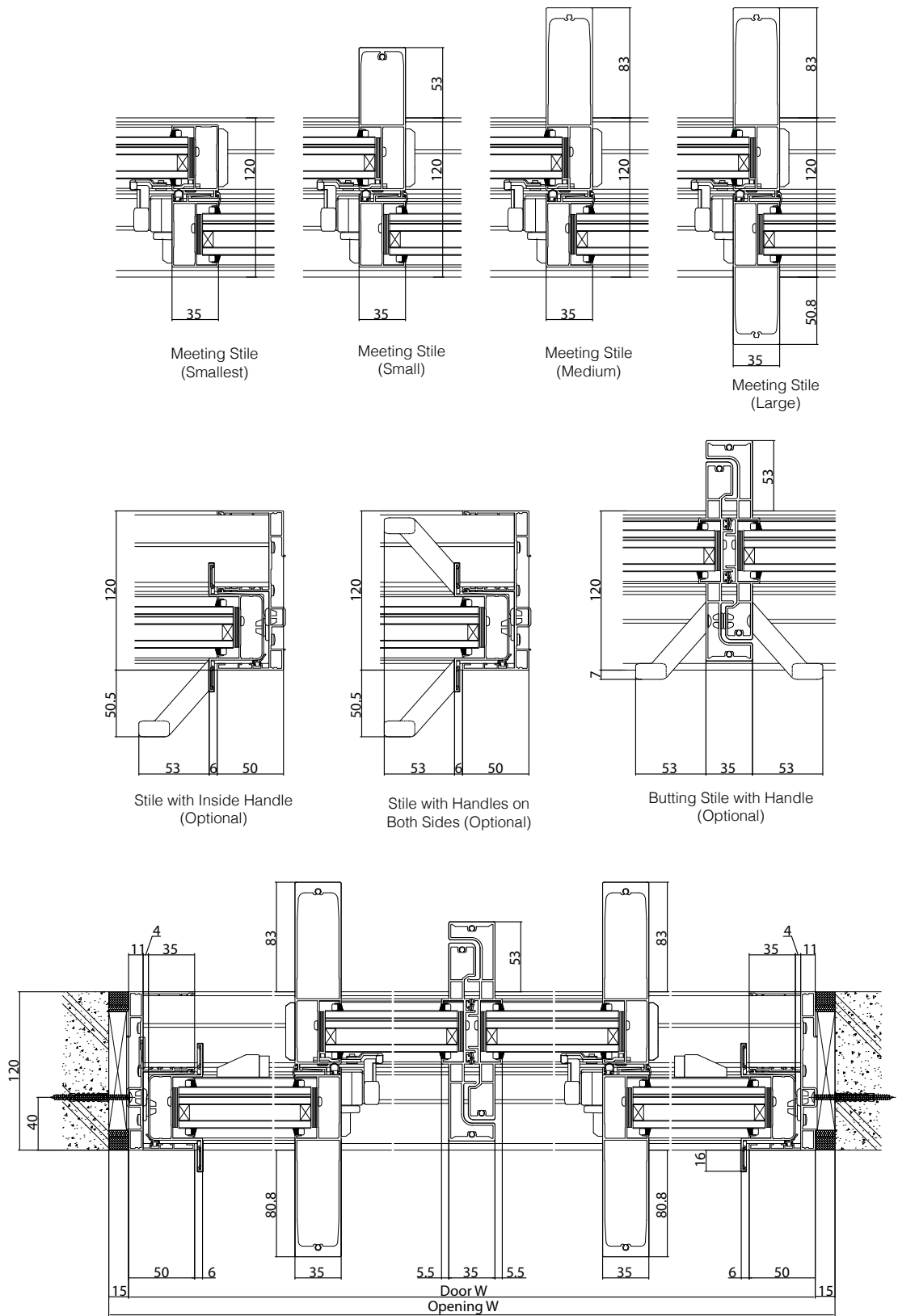
Vertical section: Sliding window  
(4 panels on 2 tracks)



Horizontal section: Sliding window (4 panels on 2 tracks)



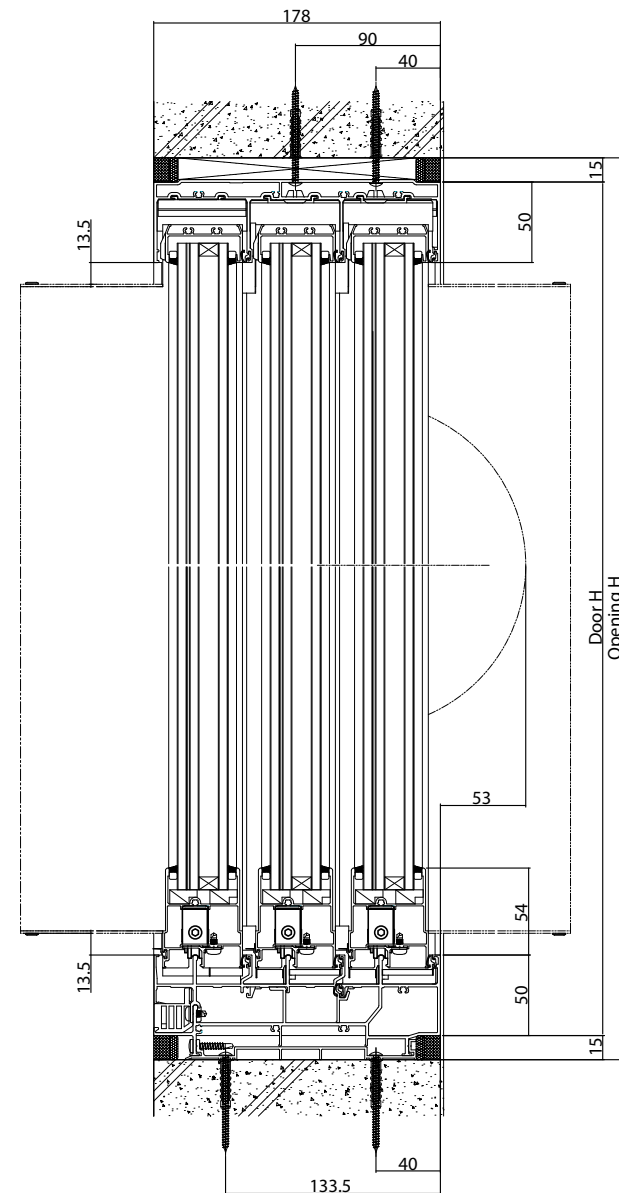
Vertical section: Sliding door  
(4 panels on 2 tracks)



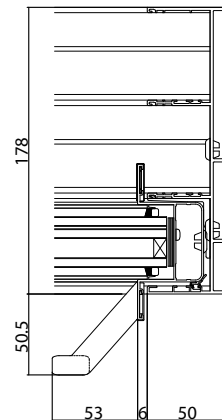
Horizontal section: Sliding door (4 panels on 2 tracks)

# GRANTS PLUS

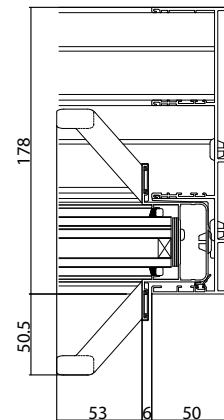
## SLIDING (3P3T, 6P3T)



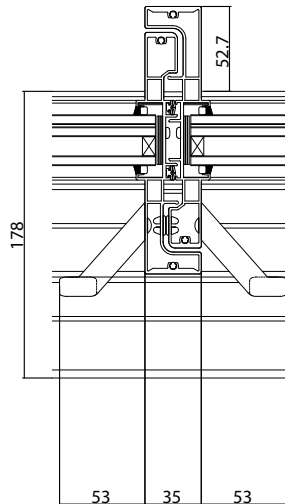
Vertical section: Sliding door  
(3 and 6 panels on 3 tracks)



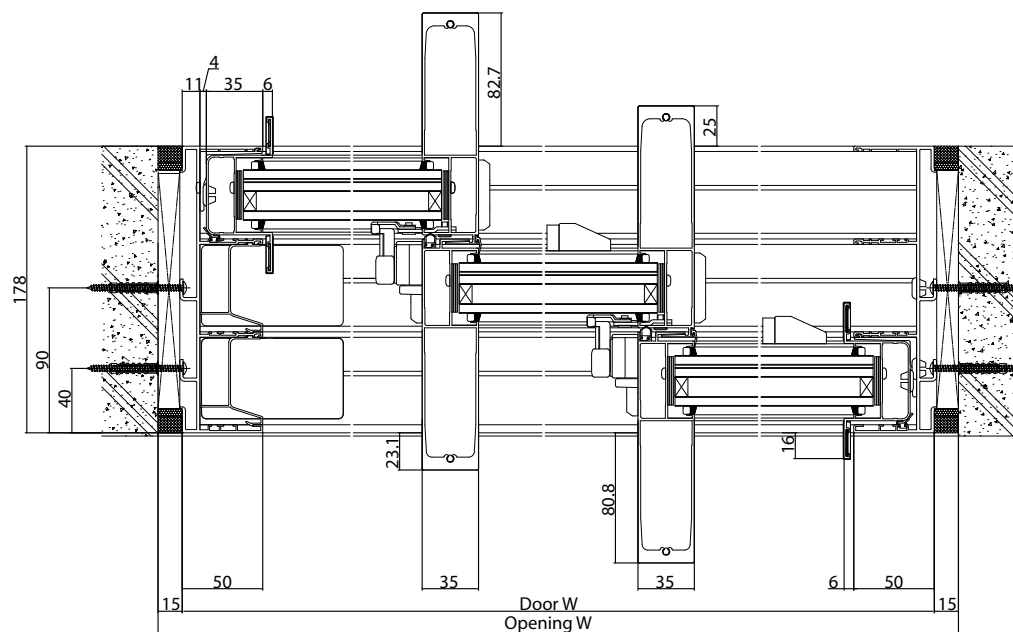
Stile with Inside Handle  
(Optional)



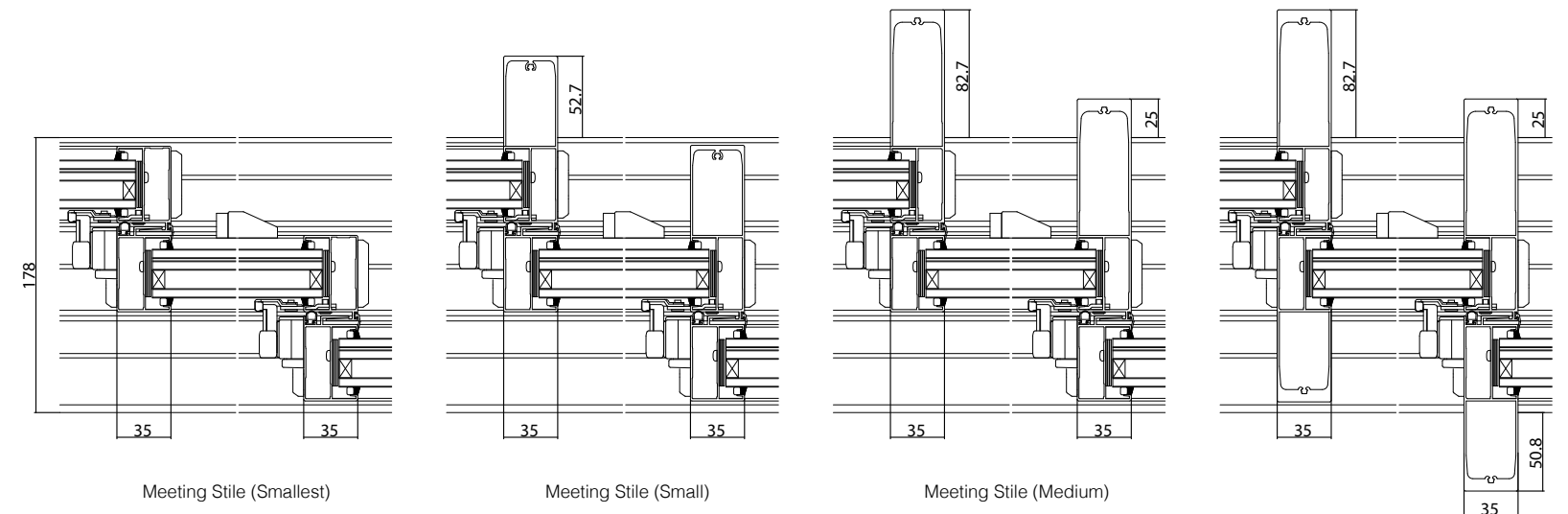
Stile with Handles on  
Both Sides (Optional)



Butting stile with Handles  
(Optional)



Horizontal section: Sliding door (3 panels on 3 tracks)

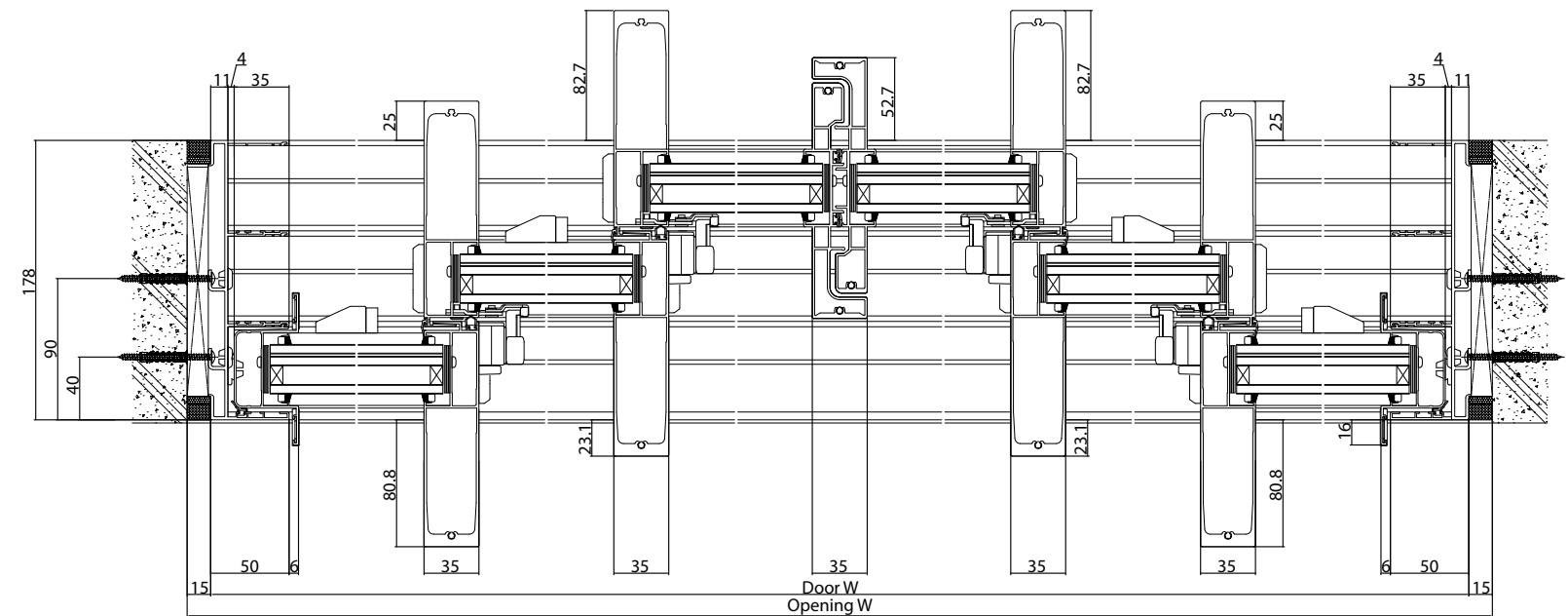


Meeting Stile (Smallest)

Meeting Stile (Small)

Meeting Stile (Medium)

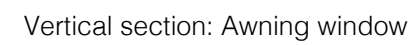
Meeting Stile (Large)



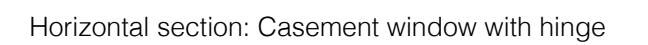
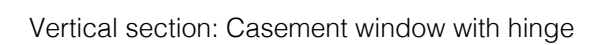
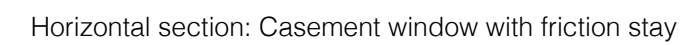
Horizontal section: Sliding door (6 panels on 3 tracks)



## AWNING WINDOW

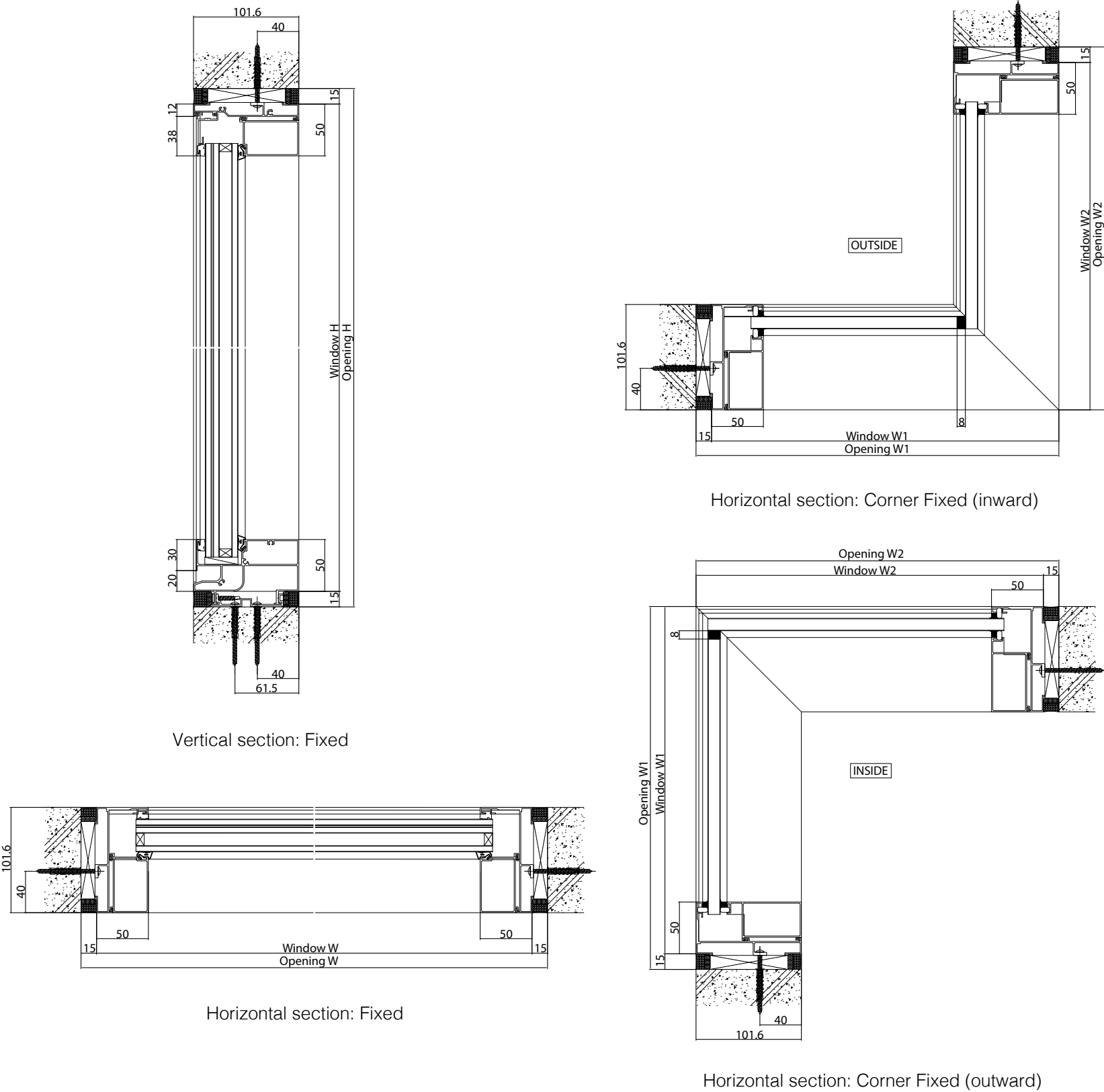


## CASEMENT WINDOW



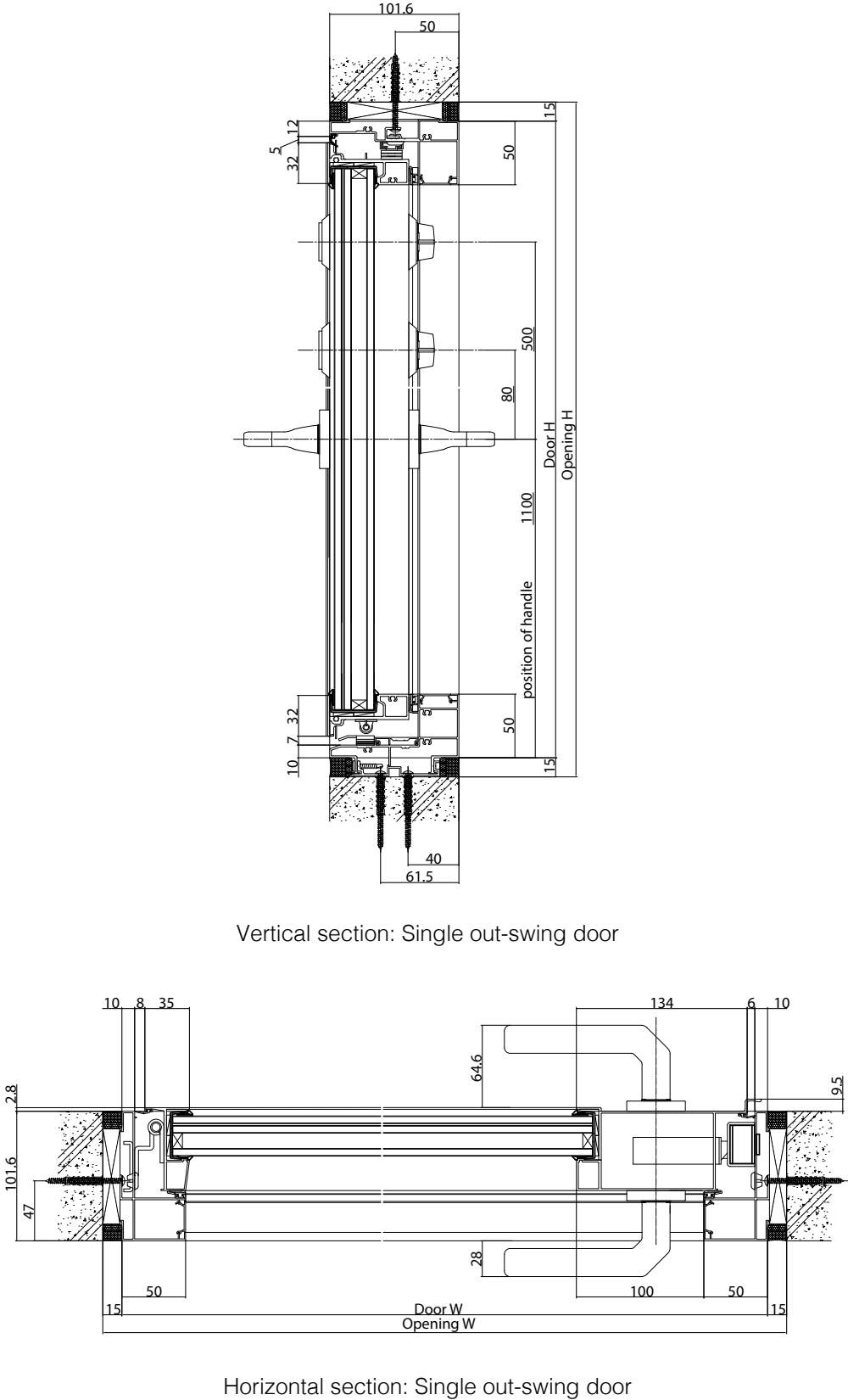
# GRANTS PLUS

## FIXED WINDOW



# GRANTS PLUS

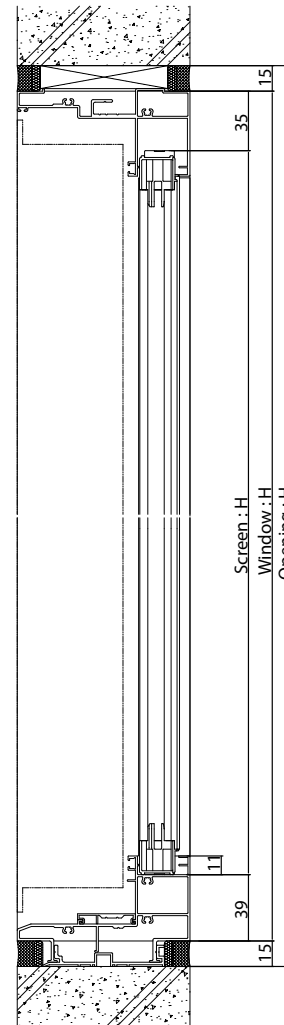
## SINGLE OUT-SWING DOOR



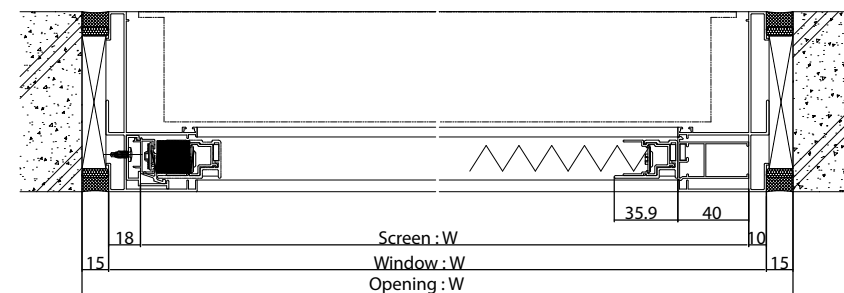


## GRANTS PLUS

## INSECT SCREEN FOR SWING



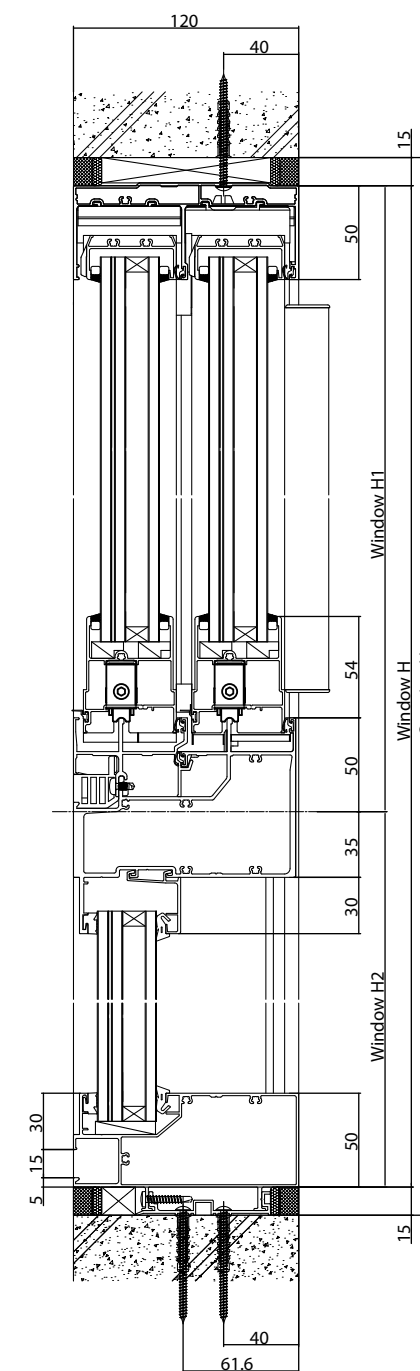
Vertical section: Insect screen for swing



Horizontal section: Insect screen for swing

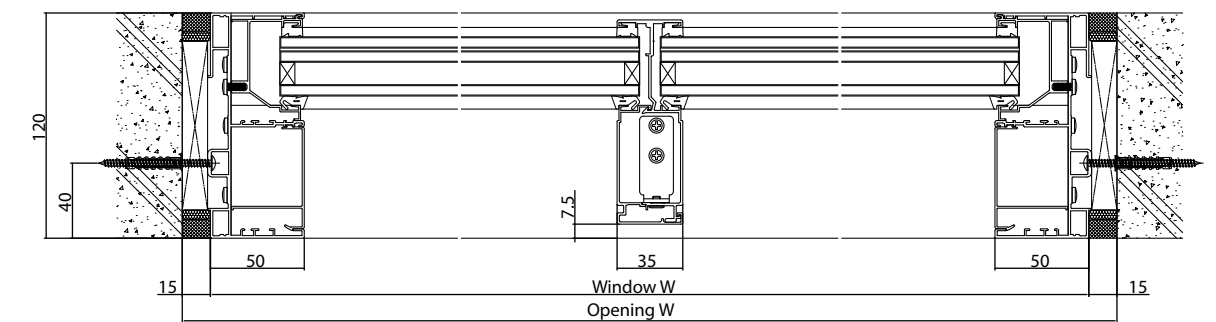
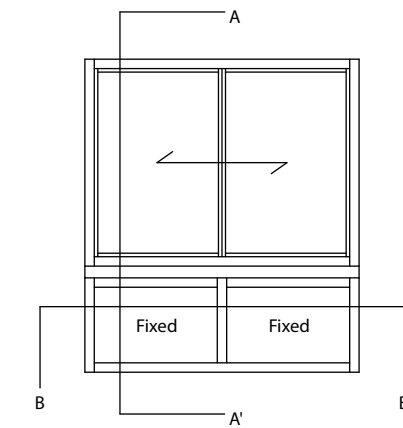
## GRANTS PLUS

## COMBINATION WINDOW



Vertical section: Sliding/Fixed A-A'

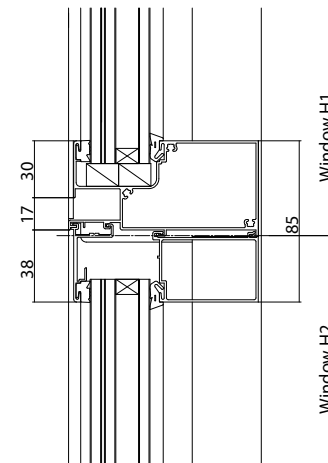
Front view: Sliding/Fixed with mullion



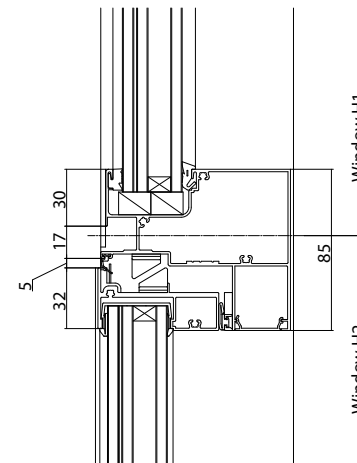
Horizontal section: Sliding/Fixed B-B'

## GRANTS PLUS

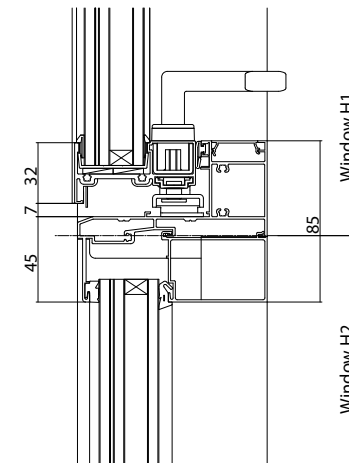
## TRANSOM &amp; MULLION



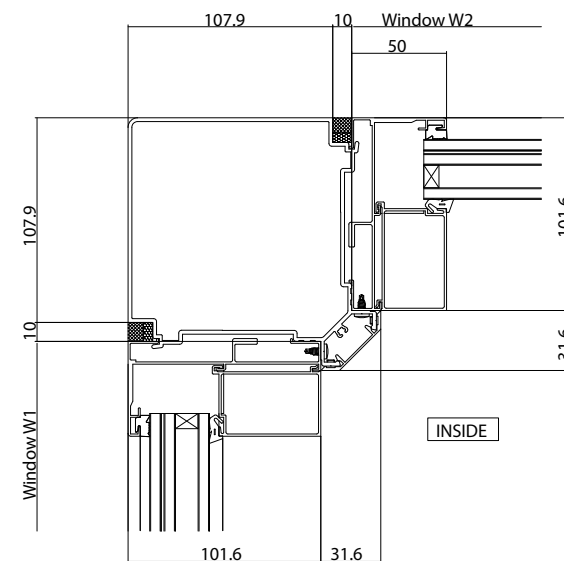
Vertical section:  
Fixed/Fixed transom



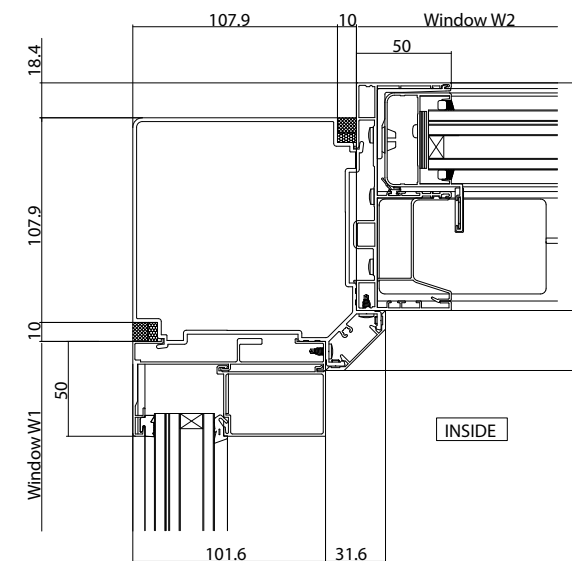
Vertical section:  
Fixed/Projection transom



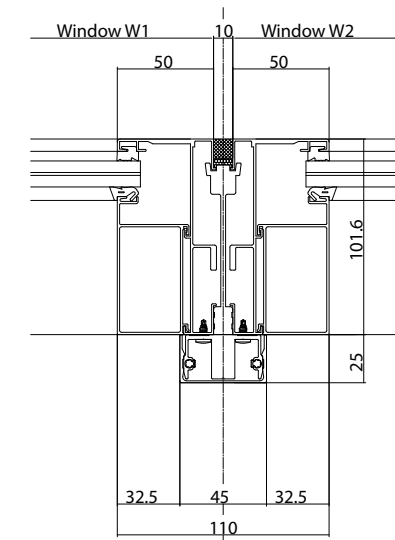
Vertical section:  
Projection/Fixed transom



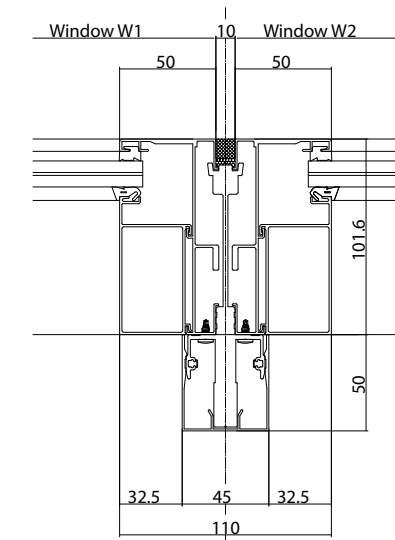
Corner mullion



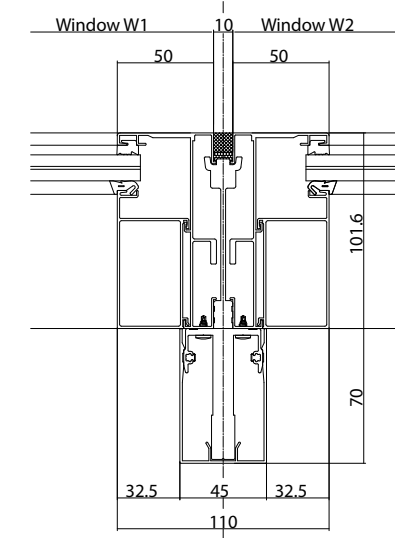
Corner mullion with sliding window



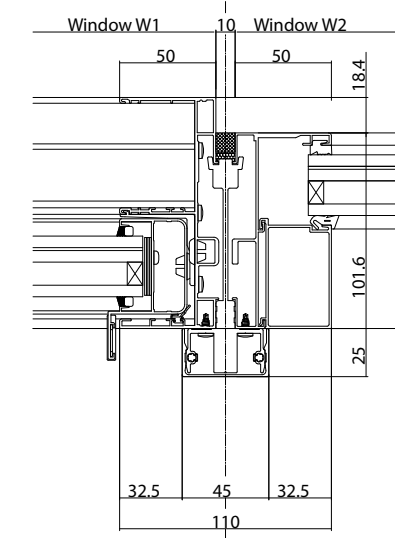
Mullion type A



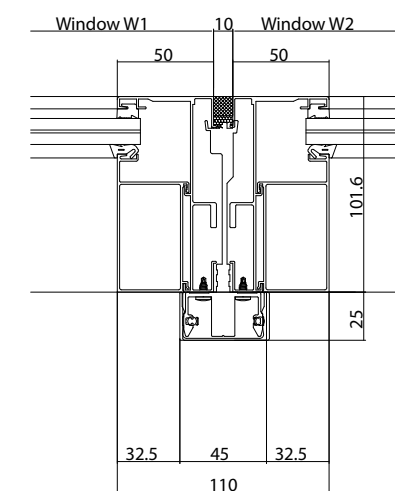
Mullion type B



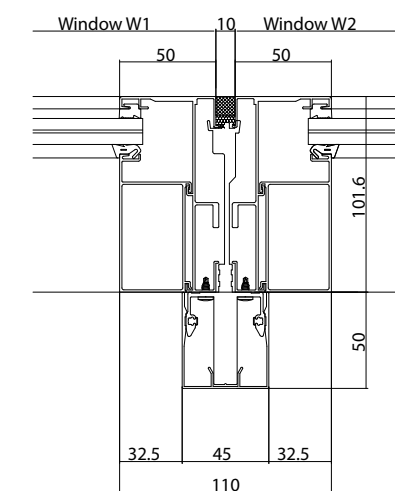
Mullion type C



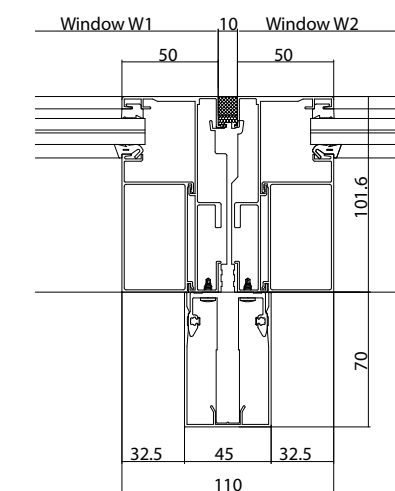
Mullion type A with sliding window



Mullion Adjust type A



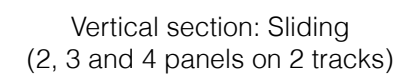
Mullion Adjust type B



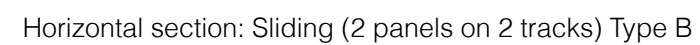
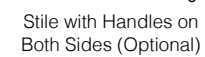
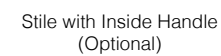
Mullion Adjust type C



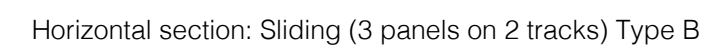
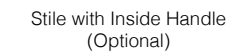
## SLIDING (2P2T, 3P2T, 4P2T)

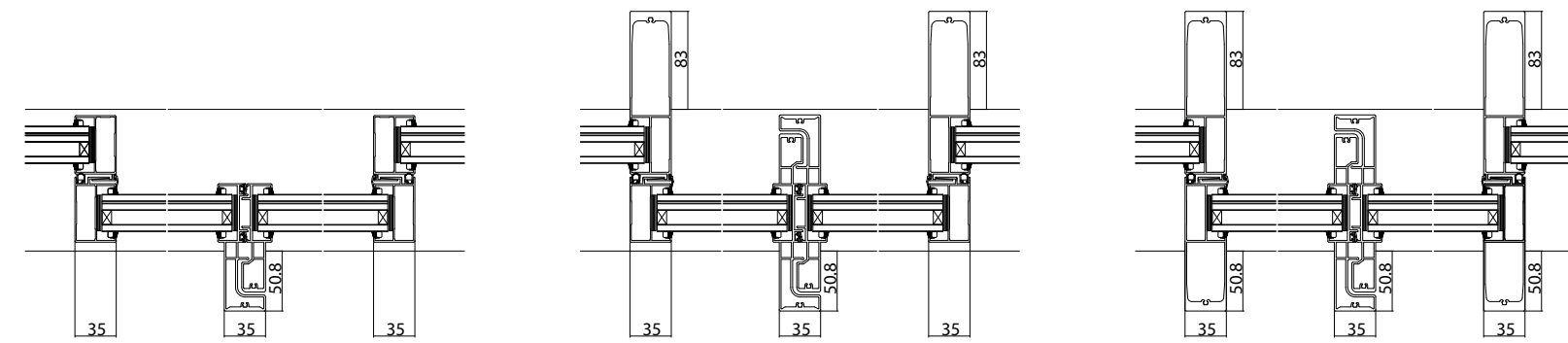


Horizontal section: Sliding (2 panels on 2 tracks)



Horizontal section: Sliding (3 panels on 2 tracks)



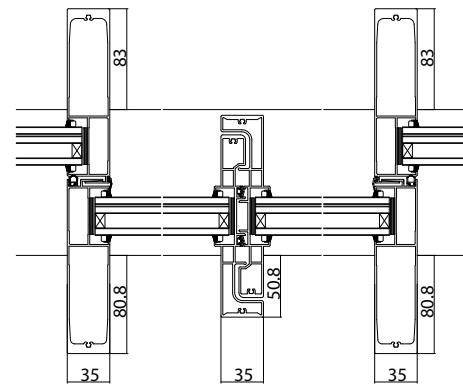


Type A

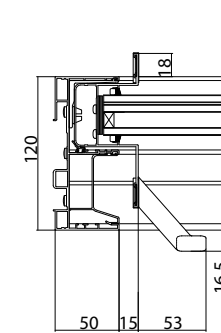
Type C

Type D

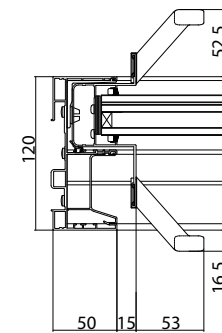
Horizontal section: Sliding (4 panels on 2 tracks)



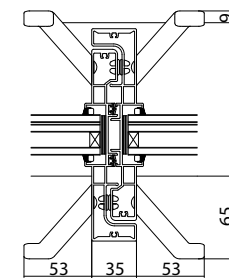
Type E



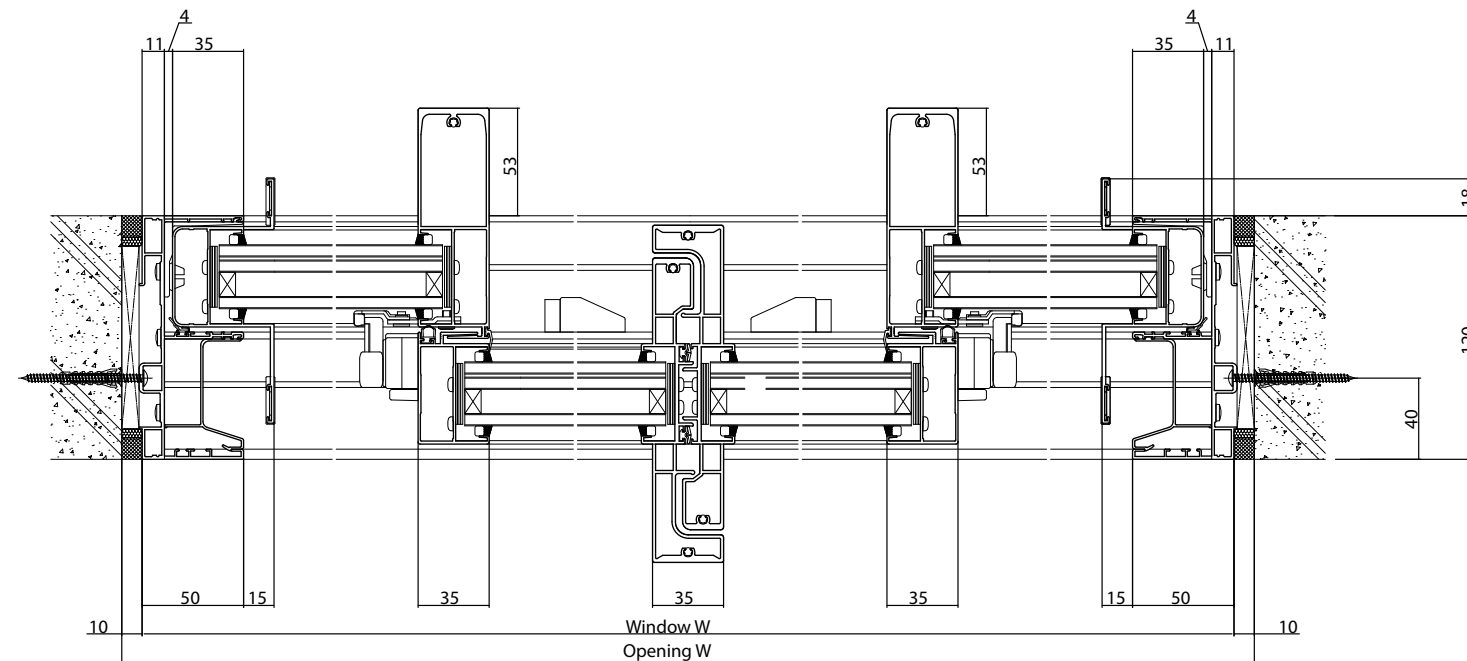
Stile with Inside Handle (Optional)



Stile with Handles on Both Sides (Optional)



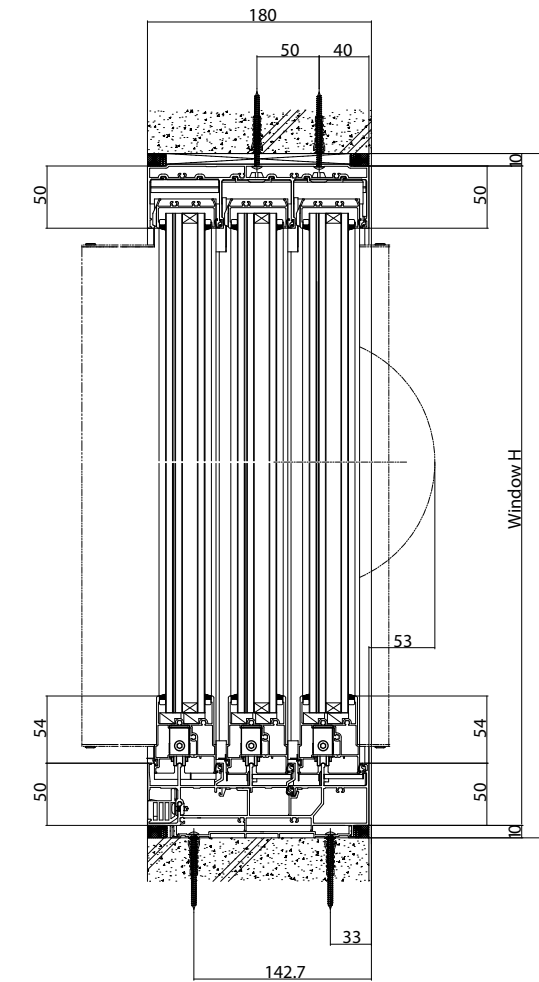
Butting Stile with Handle (Optional)



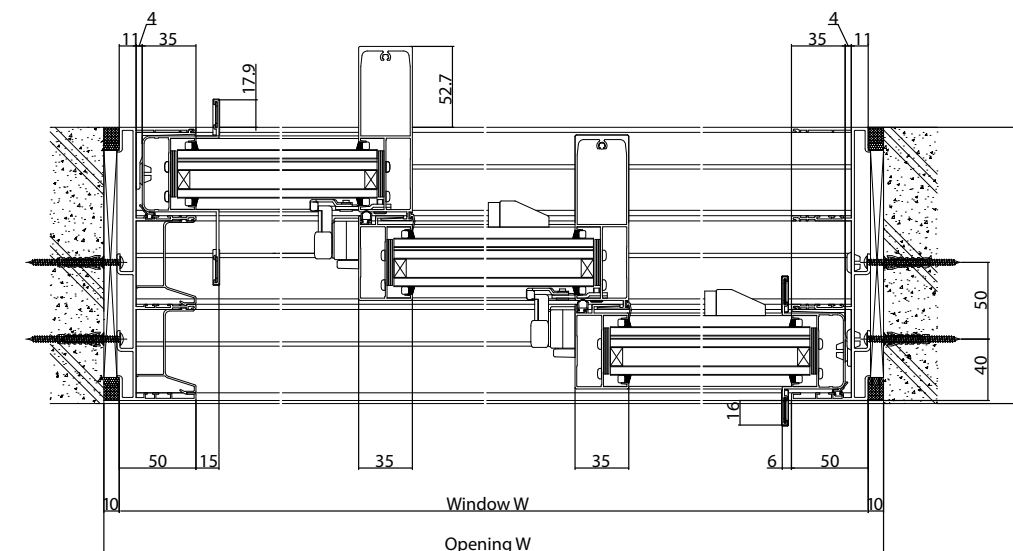
Horizontal section: Sliding (4 panels on 2 tracks) Type B

# GRANTS

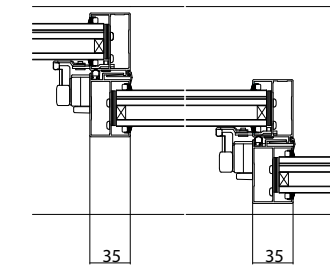
## SLIDING (3P3T, 6P3T)



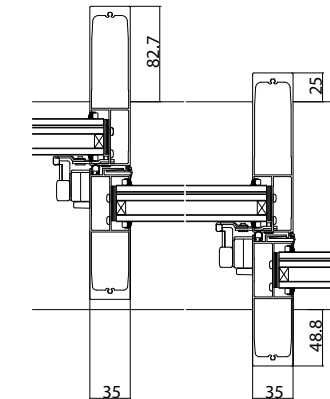
Vertical section: Sliding (3 and 6 panels on 3 tracks)



Horizontal section: Sliding (3 panels on 3 tracks) Type B

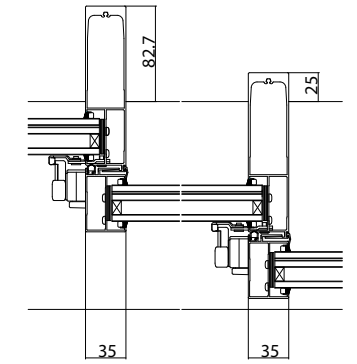


Type A

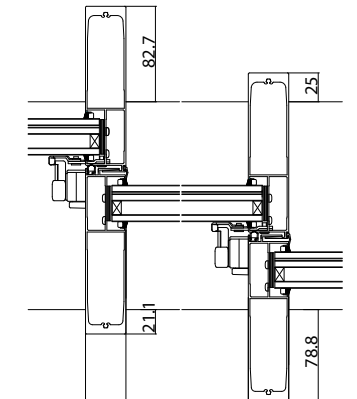


Type D

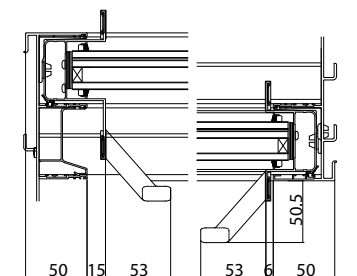
Horizontal section: Sliding (3 panels on 3 tracks)



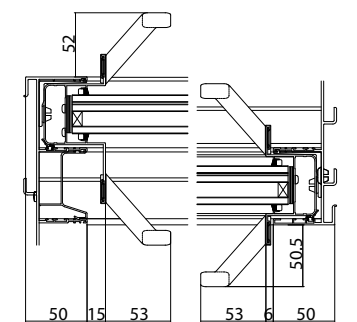
Type C



Type E

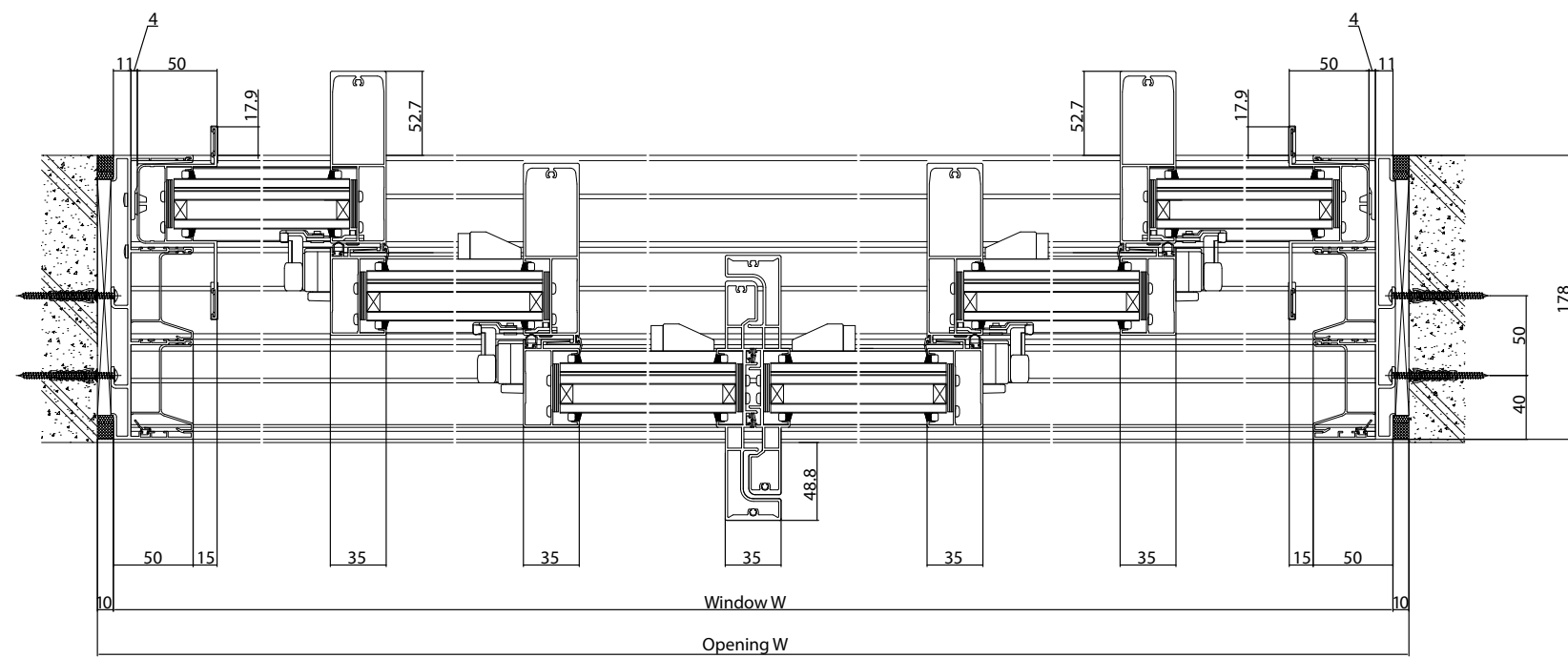
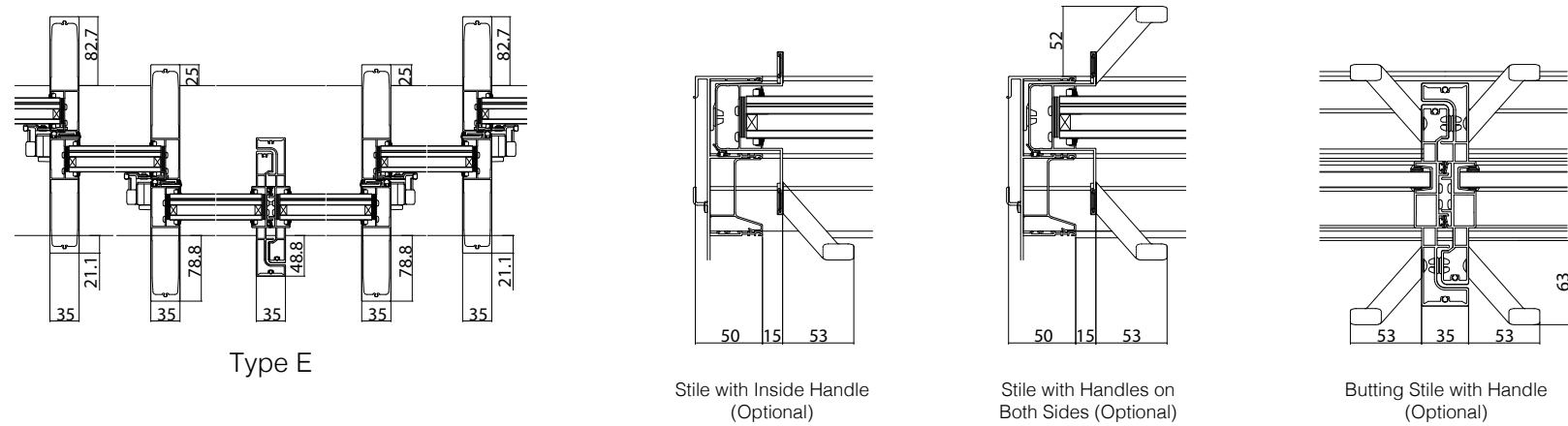
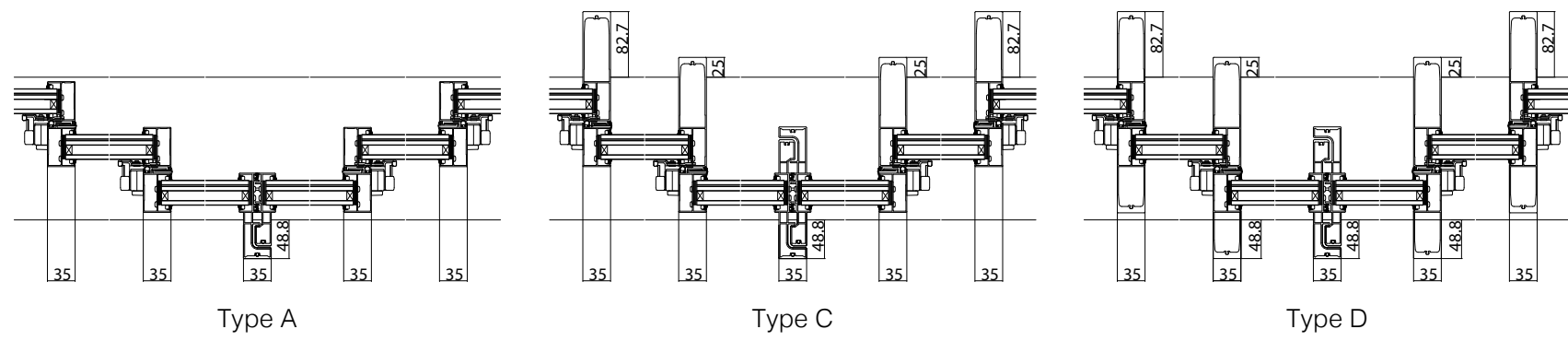


Stile with Inside Handle (Optional)



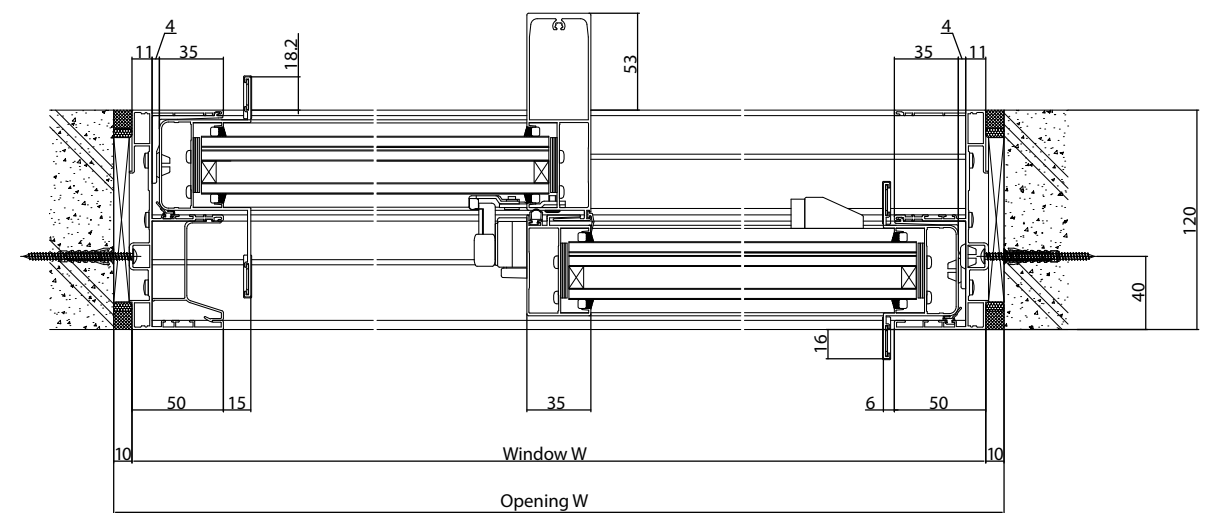
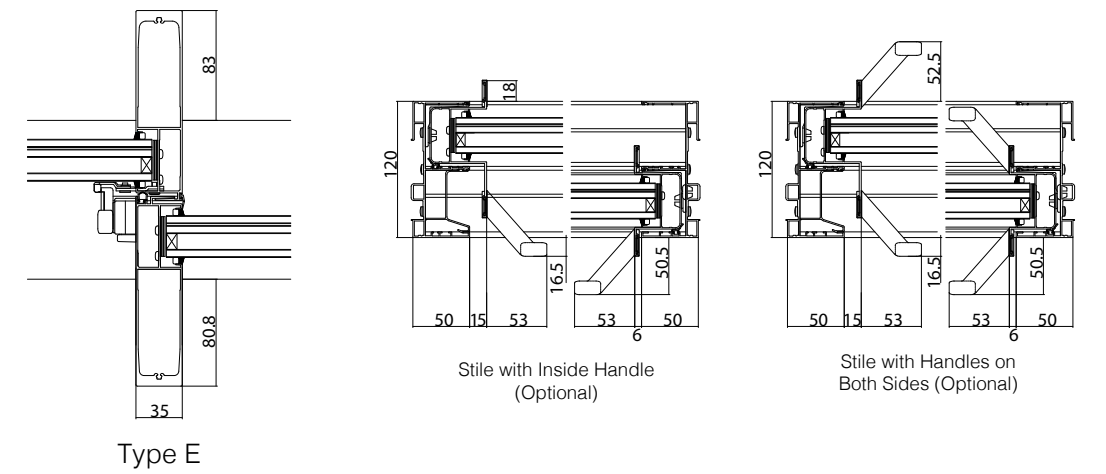
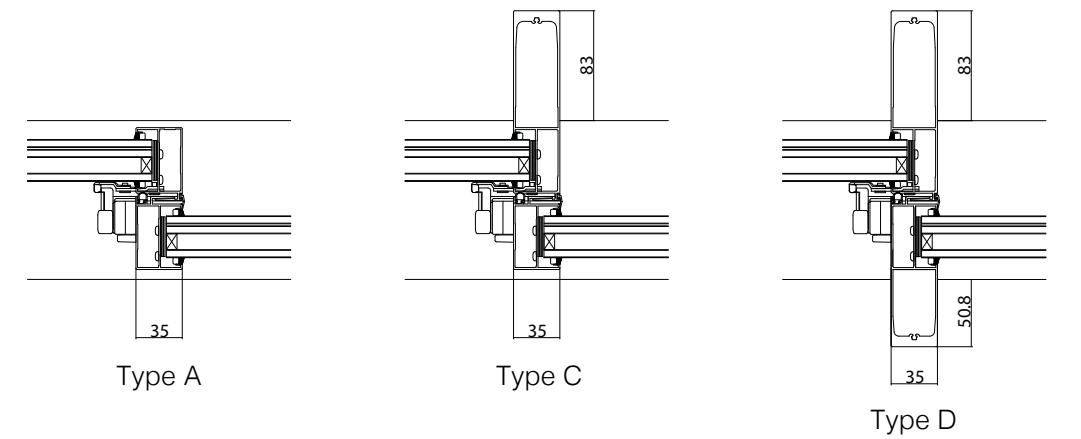
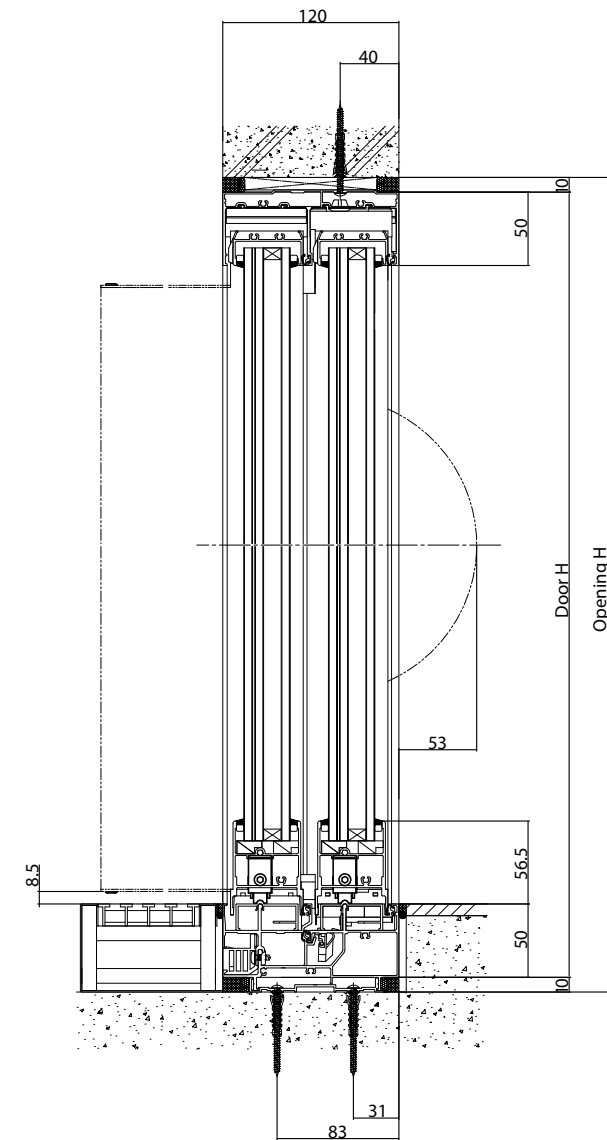
Stile with Handles on Both Sides (Optional)





# GRANTS

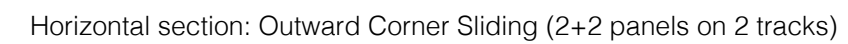
## SLIDING FLAT-RAIL (2P2T, 4P2T)



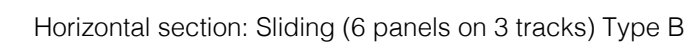
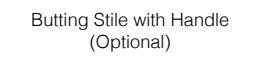
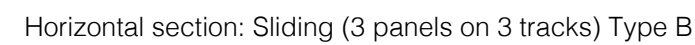


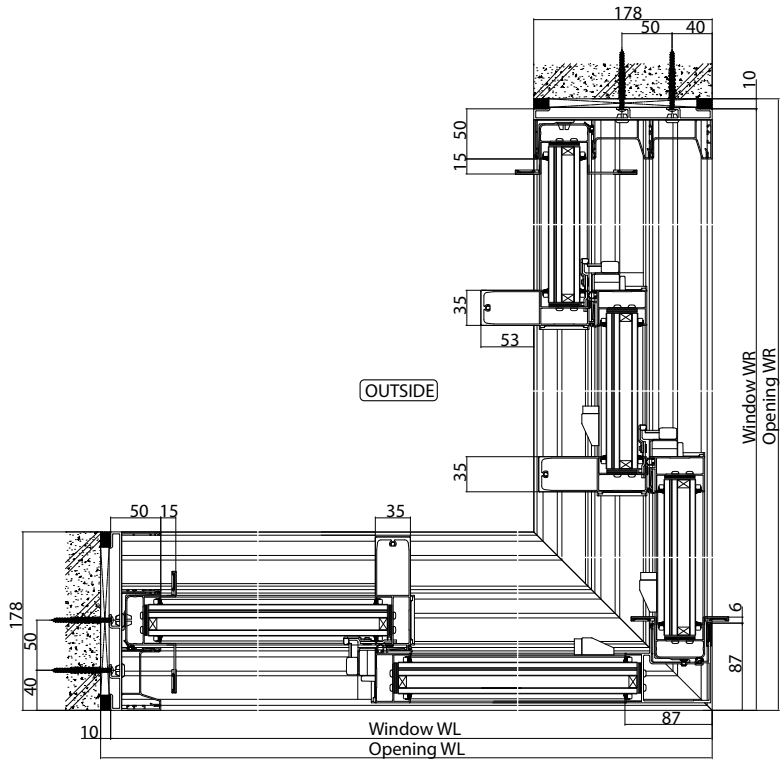
### Butting Stile with Handle (Optional)

Horizontal section: Sliding (4 panels on 2 tracks) Type B

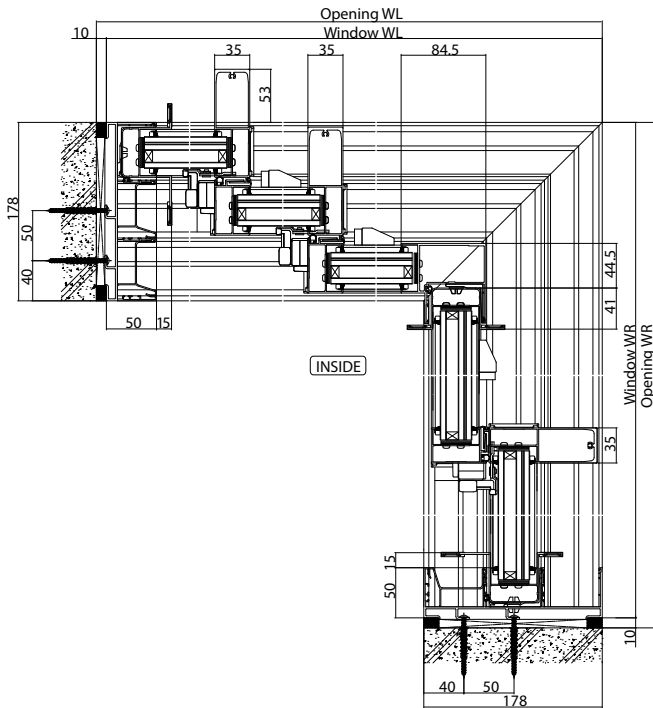




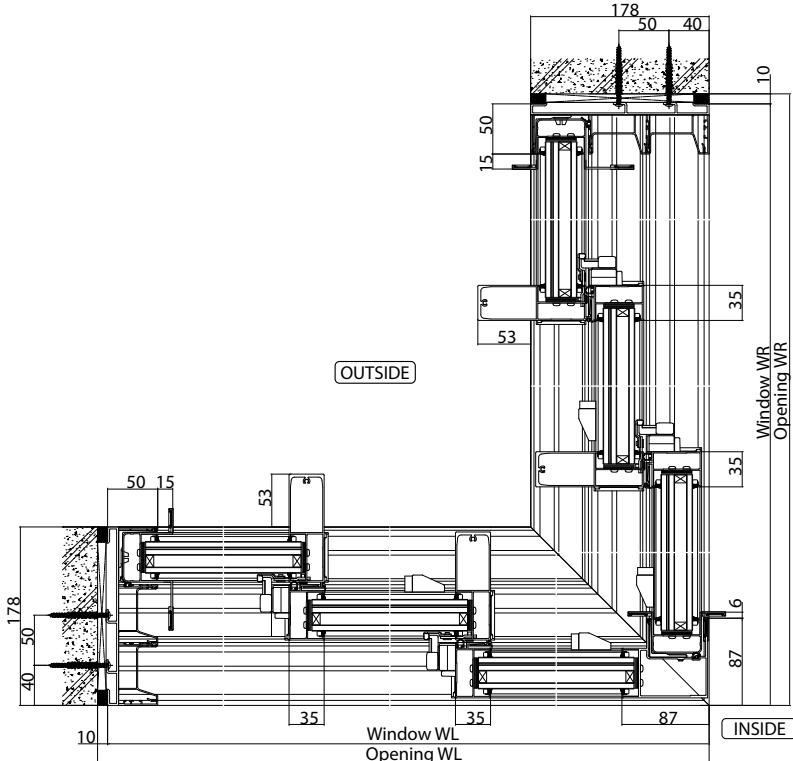




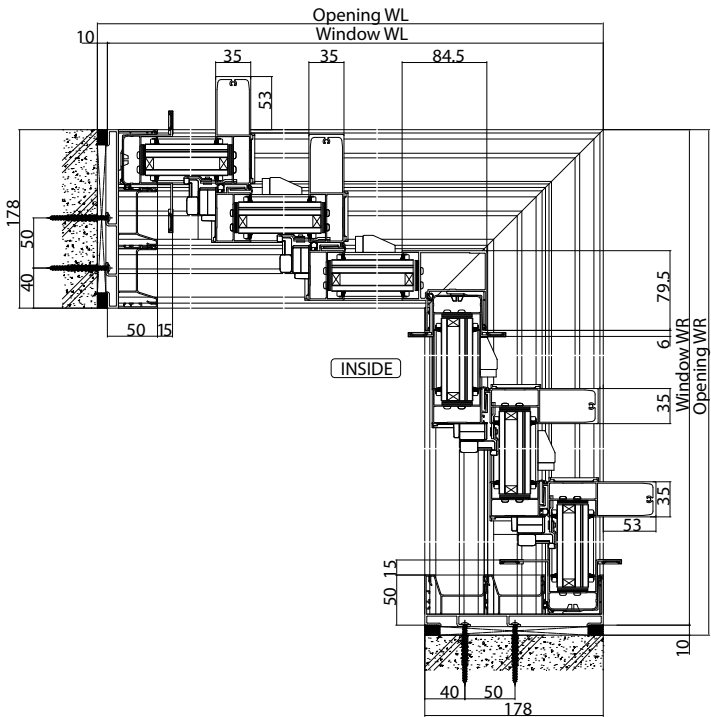
Horizontal section: Inward Corner Sliding (3+2 panels on 3 tracks)



Horizontal section: Outward Corner Sliding (3+2 panels on 3 tracks)



Horizontal section: Inward Corner Sliding (3+3 panels on 3 tracks)

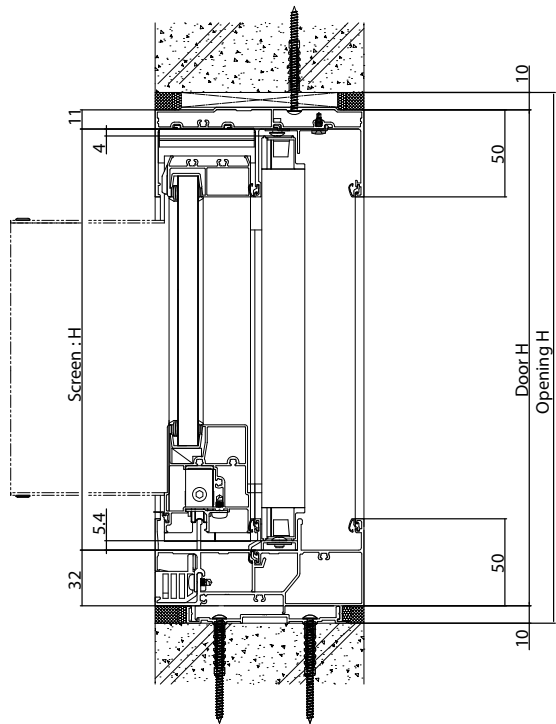


Horizontal section: Outward Corner Sliding (3+3 panels on 3 tracks)

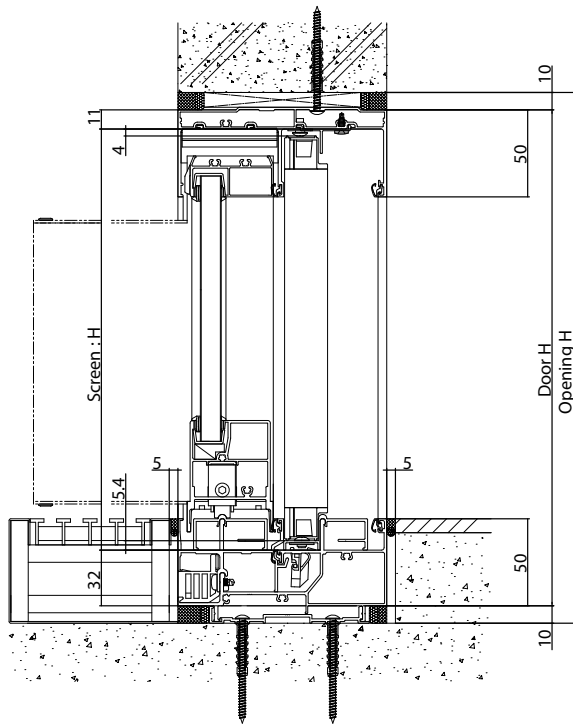


# GRANTS

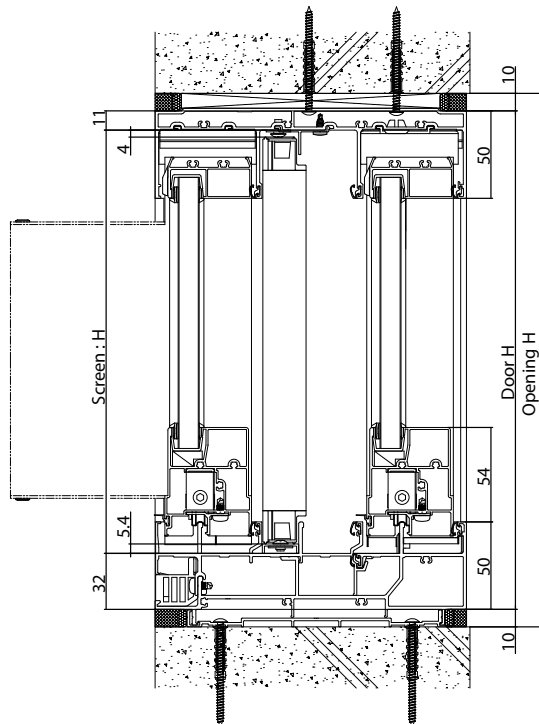
## SLIDING WITH SCREEN



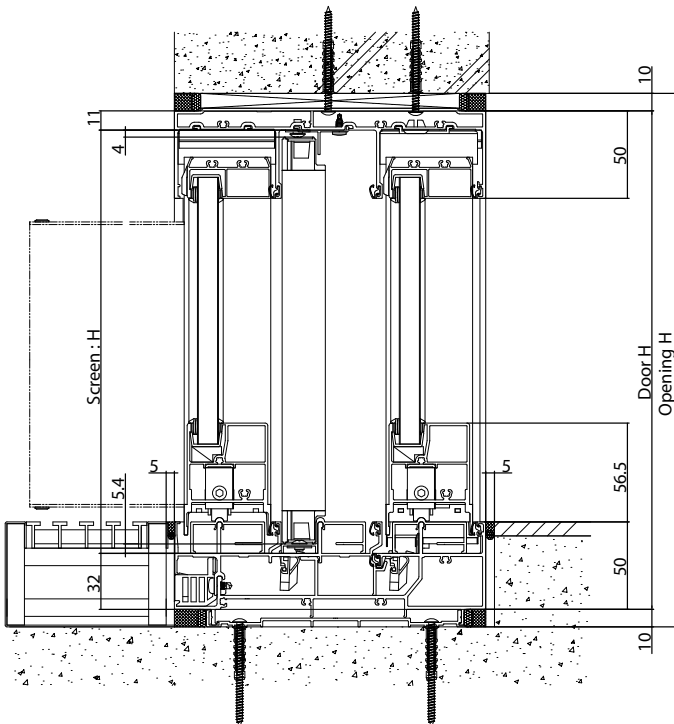
Vertical section: Sliding with screen (inside type, 2 tracks)



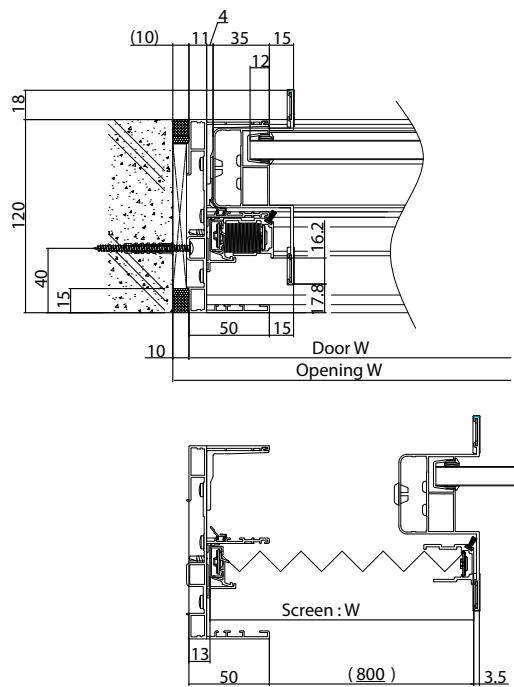
Vertical section: Flat rail sliding with screen (inside type, 2 tracks)



Vertical section: Sliding with screen (inside type, 3 tracks)

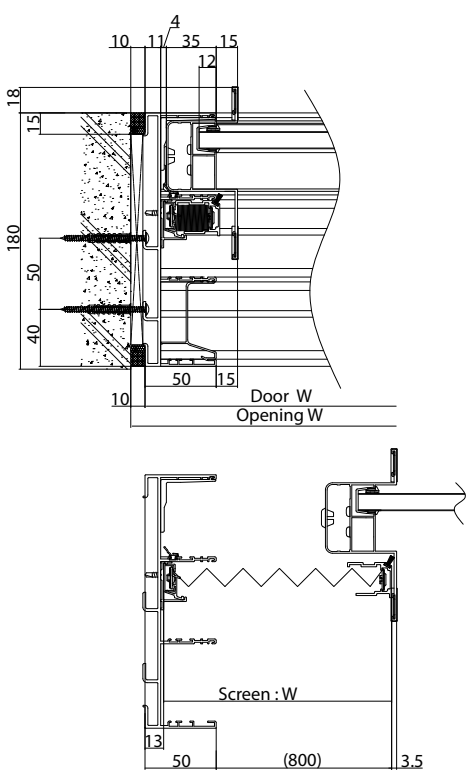


Vertical section: Flat rail sliding with screen (inside type, 3 tracks)



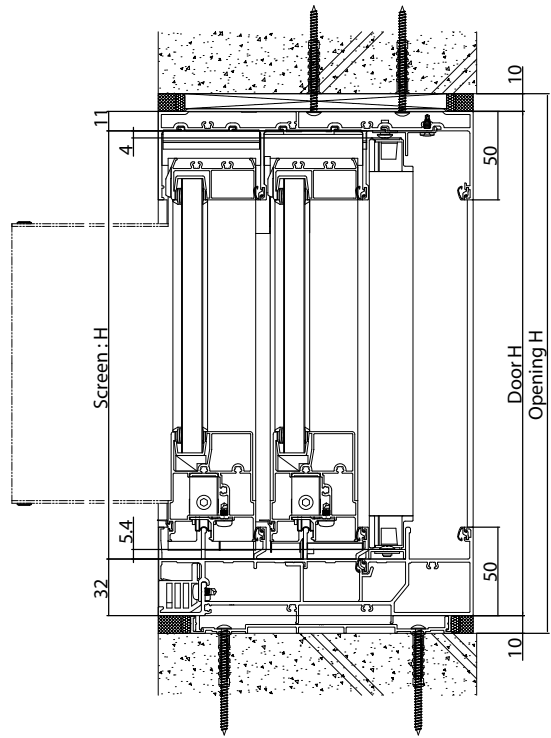
Horizontal section: Sliding with screen (inside type, 2 tracks)

Type	Rough sketch	
2P2T	(Outside)	
	(Inside)	
3P2T	(Normal type only)	
4P2T		
2P2T Outward Corner	(Outside)	
	(Inside)	
2P2T Inward Corner	(Outside)	
	(Inside)	

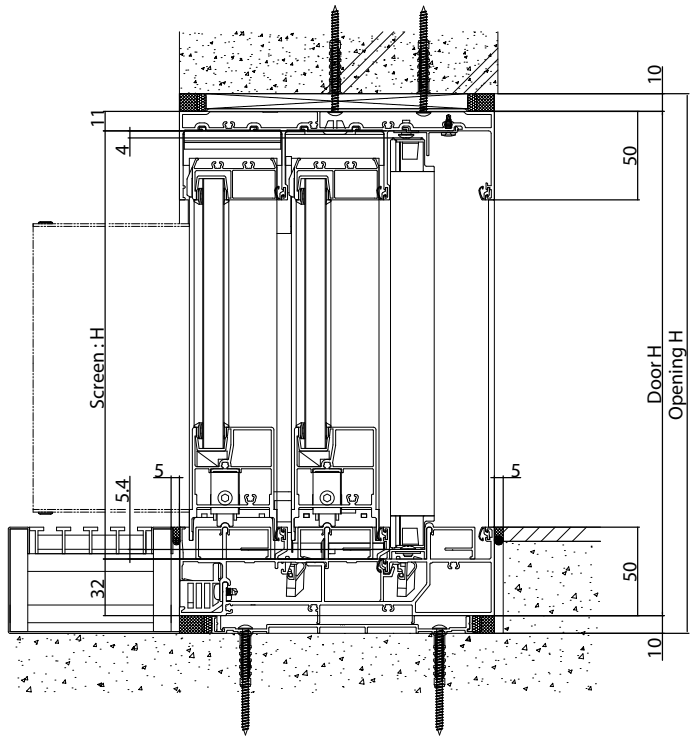


Horizontal section: Sliding with screen (inside type, 3 tracks)

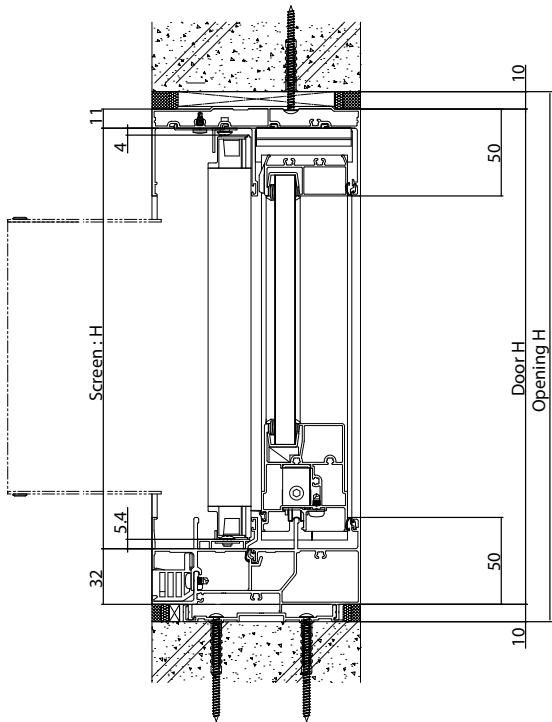
Type	Rough sketch	
3P3T	(Outside)	
	(Inside)	
6P3T		
3P3T Outward Corner	(Outside)	
	(Inside)	
3P3T Inward Corner	(Outside)	
	(Inside)	



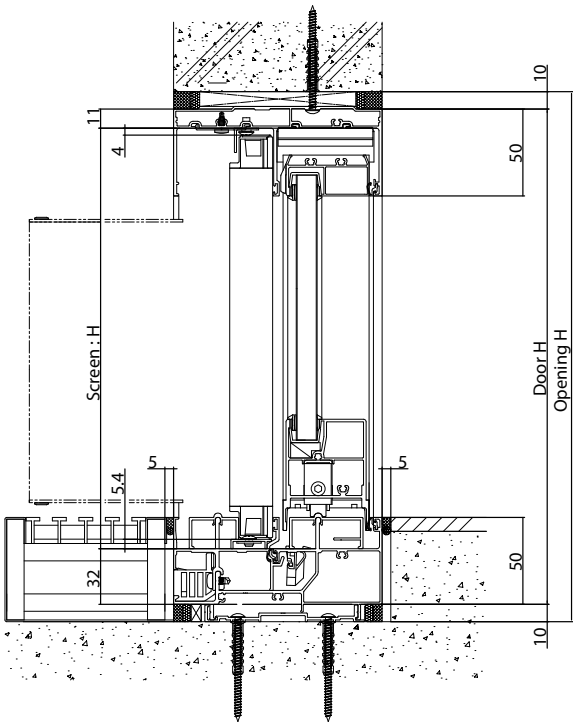
Vertical section: Sliding with screen (inside type, 3 tracks)



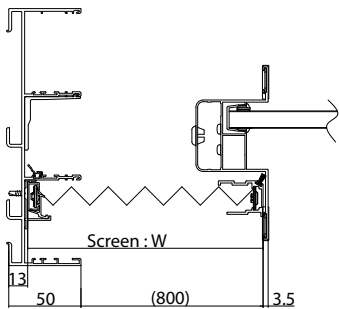
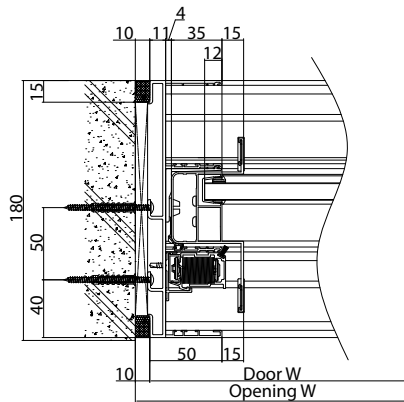
Vertical section: Flat rail sliding with screen (inside type, 3 tracks)



Vertical section: Sliding with screen (outside type, 2 tracks)

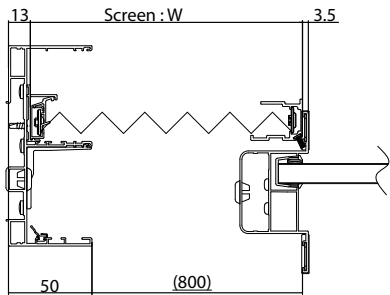
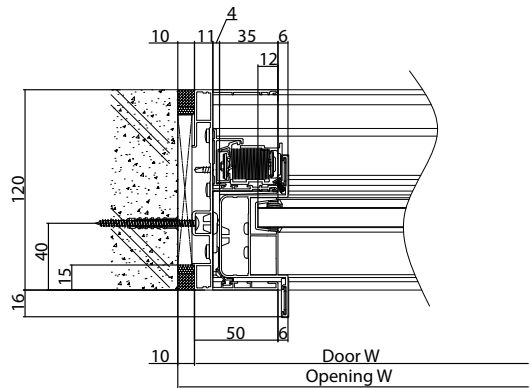


Vertical section: Flat rail sliding with screen (outside type, 2 tracks)



Horizontal section: Sliding with screen (inside type, 3 tracks)

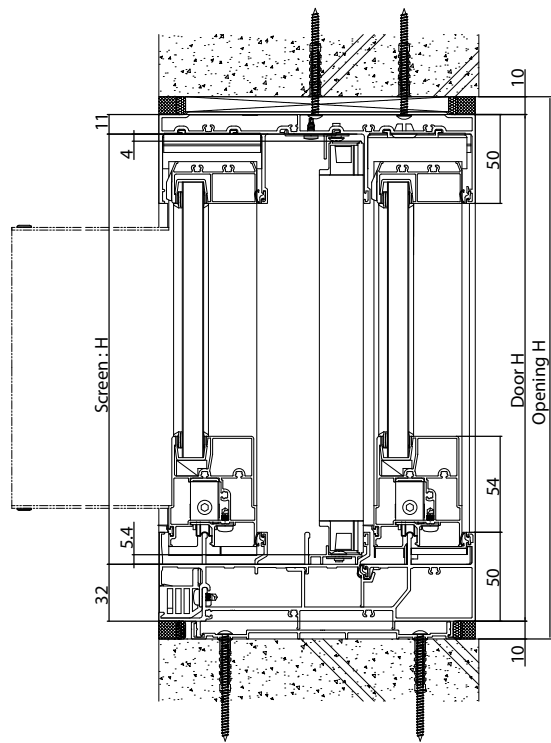
Type	Rough sketch	
2P3T Outward Corner	(Outside) L	(Outside) R
	(Inside) L	(Inside) R
2P3T Inward Corner	(Outside) L	(Outside) R
	(Inside) L	(Inside) R



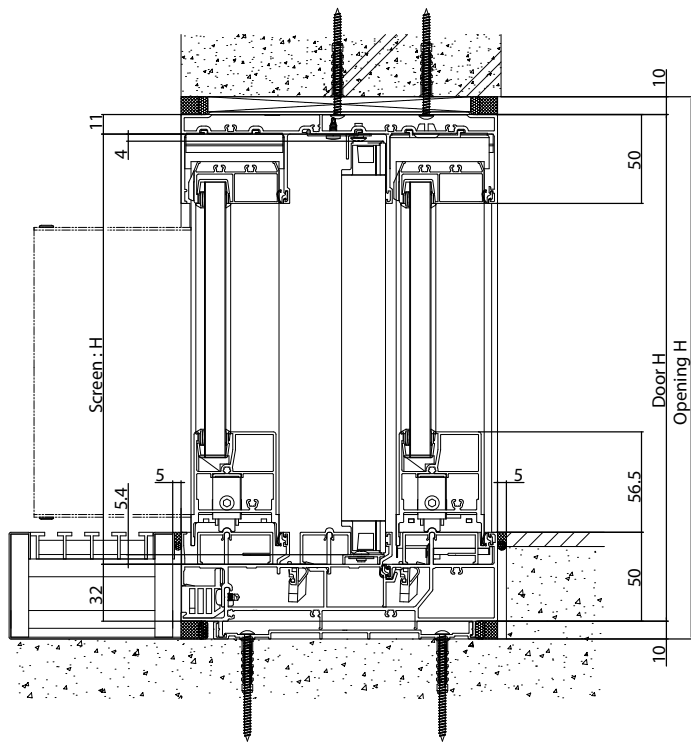
Horizontal section: Sliding with screen (outside type, 2 tracks)

Type	Rough sketch	
2P2T	(Outside) L	(Outside) R
	(Inside) L	(Inside) R
3P2T	L	R
4P2T	L	R
2P2T Outward Corner	(Outside) L	(Outside) R
	(Inside) L	(Inside) R
2P2T Inward Corner	(Outside) L	(Outside) R
	(Inside) L	(Inside) R

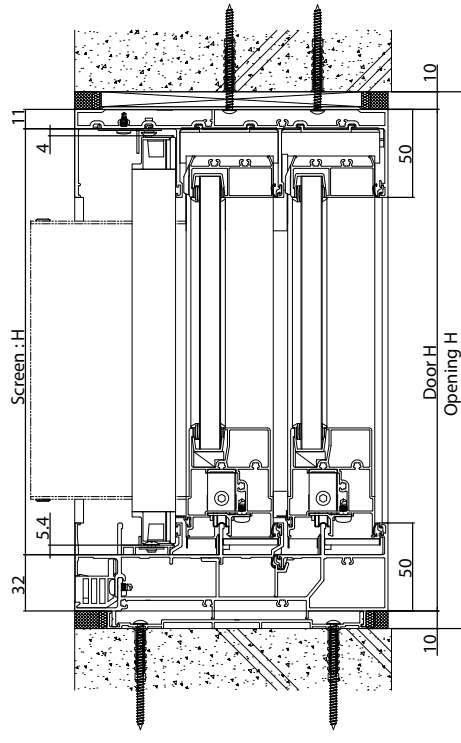




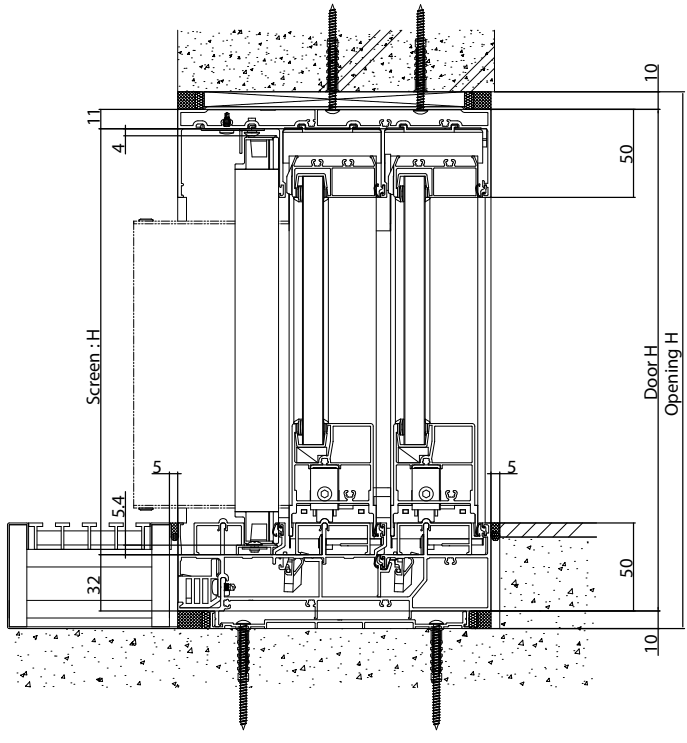
Vertical section: Sliding with screen  
(outside type, 3 tracks)



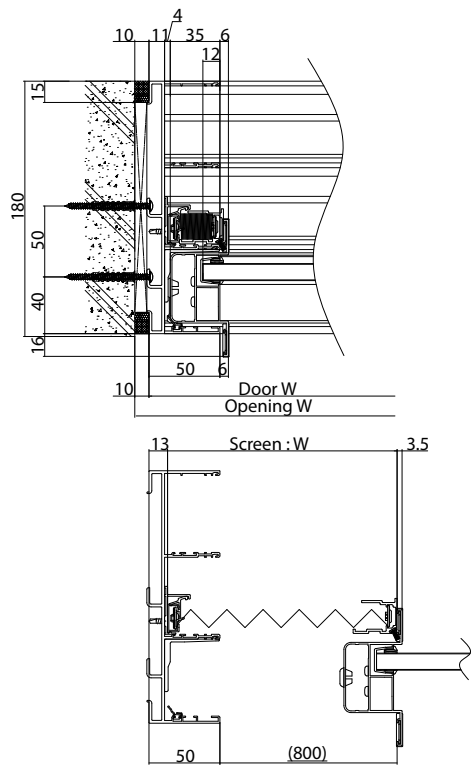
Vertical section: Flat rail sliding with screen  
(outside type, 3 tracks)



Vertical section: Sliding with screen  
(outside type, 3 tracks)

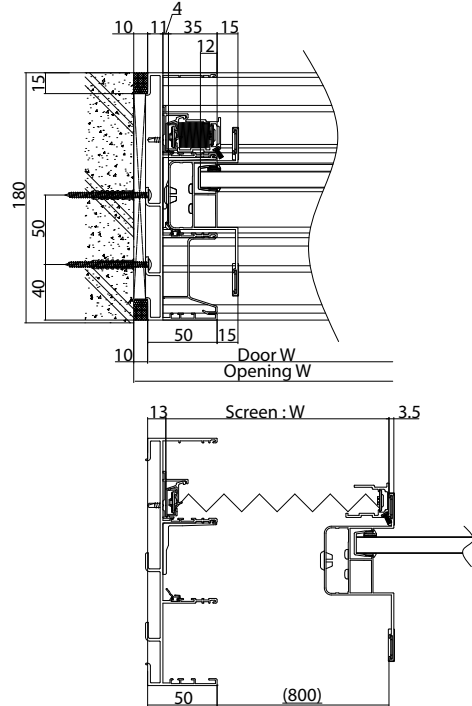


Vertical section: Flat rail sliding with screen  
(outside type, 3 tracks)



Horizontal section: Sliding with screen (outside type, 3 tracks)

Type	Rough sketch	
3P3T	(Outside)	(Outside)
	(Inside)	(Inside)
6P3T	(Outside)	(Outside)
	(Inside)	(Inside)
3P3T Outward Corner	(Outside)	(Outside)
	(Inside)	(Inside)
3P3T Inward Corner	(Outside)	(Outside)
	(Inside)	(Inside)

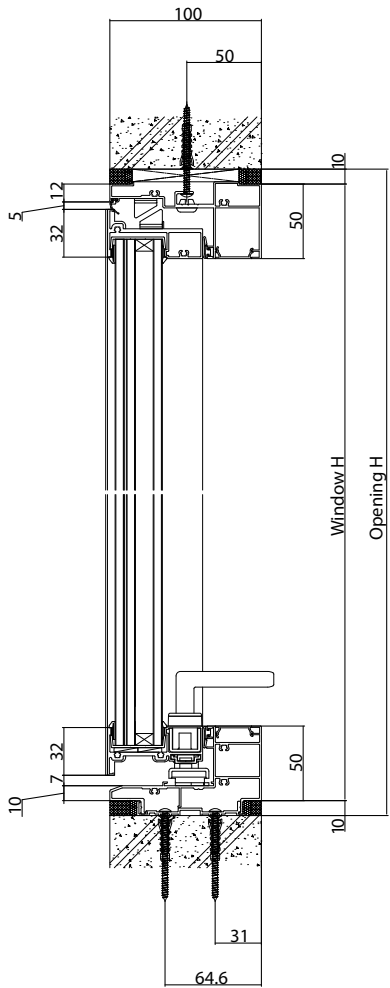


Horizontal section: Sliding with screen (outside type, 3 tracks)

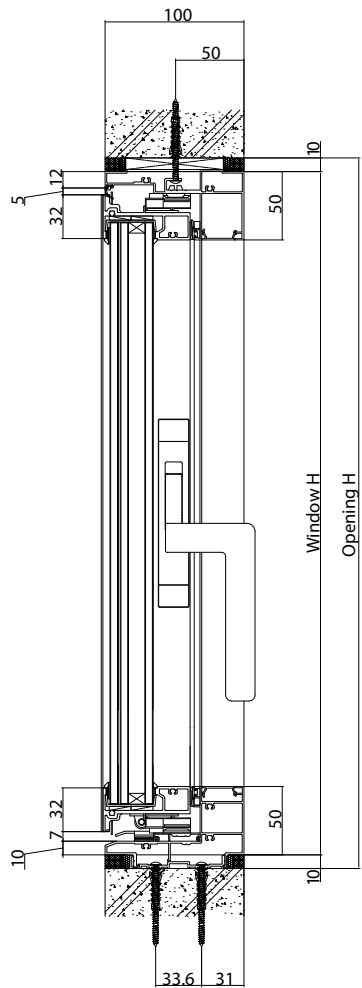
Type	Rough sketch	
2P3T Outward Corner	(Outside)	(Outside)
	(Inside)	(Inside)
2P3T Inward Corner	(Outside)	(Outside)
	(Inside)	(Inside)

# GRANTS

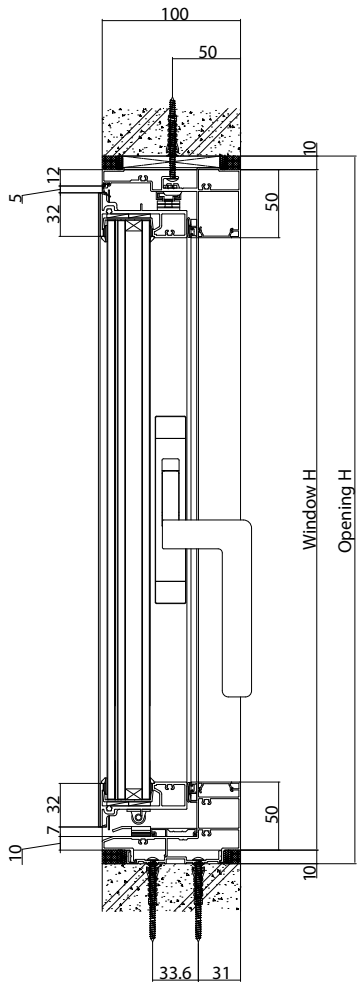
## AWNING, CASEMENT, FIXED WINDOW



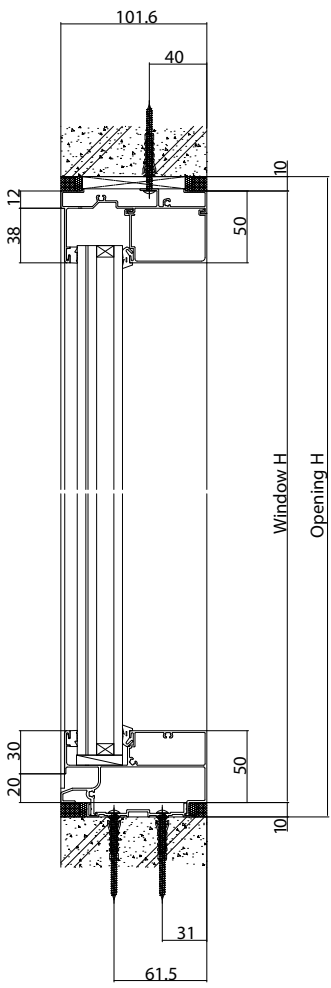
Vertical section: Awning window



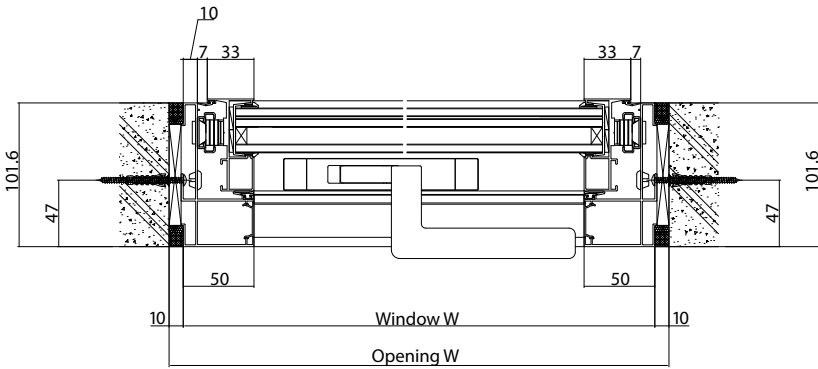
Vertical section:  
Casement window with friction stay



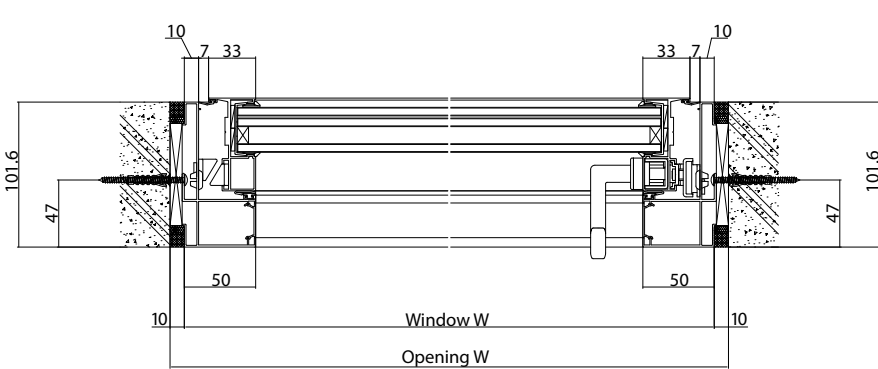
Vertical section: Casement window with hinge



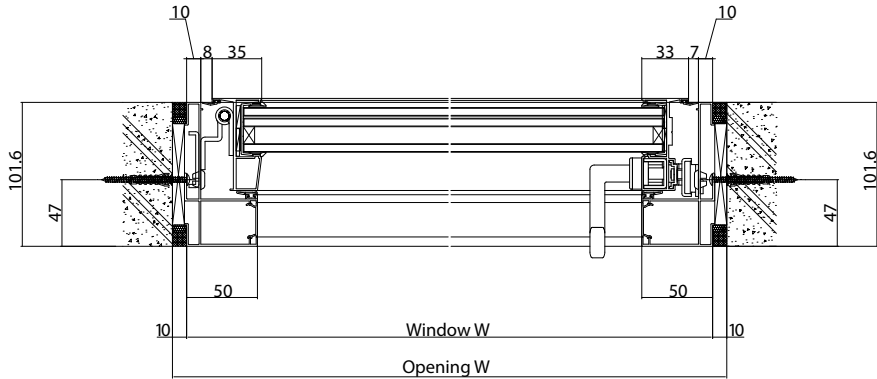
Vertical section: Fixed



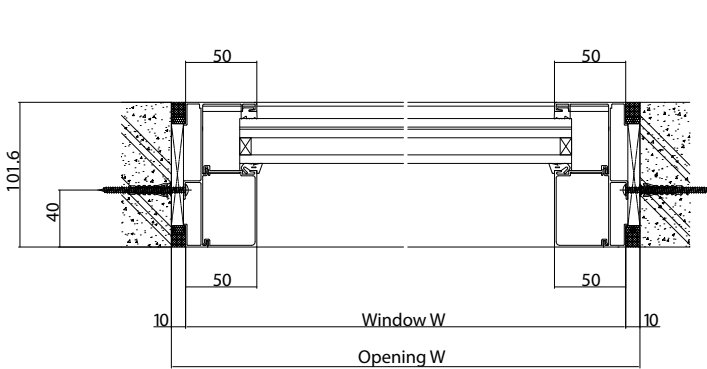
Horizontal section: Awning window



Horizontal section:  
Casement window with friction stay

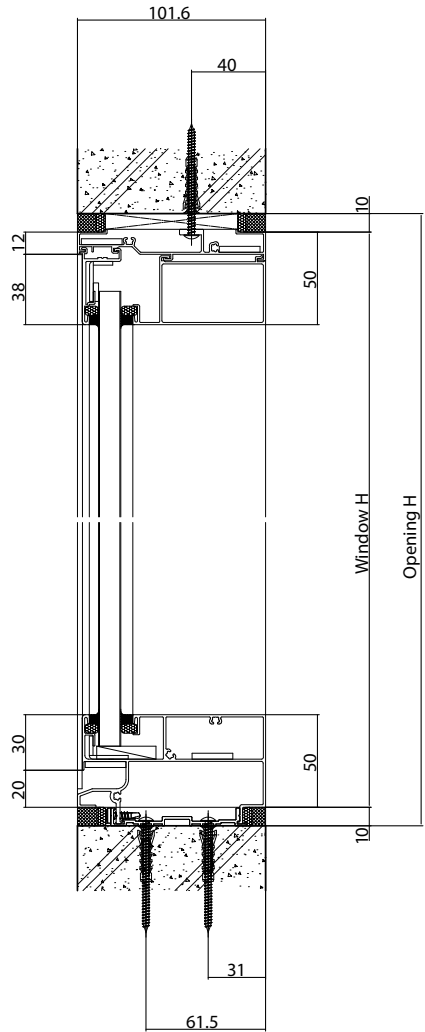


Horizontal section: Casement window with hinge

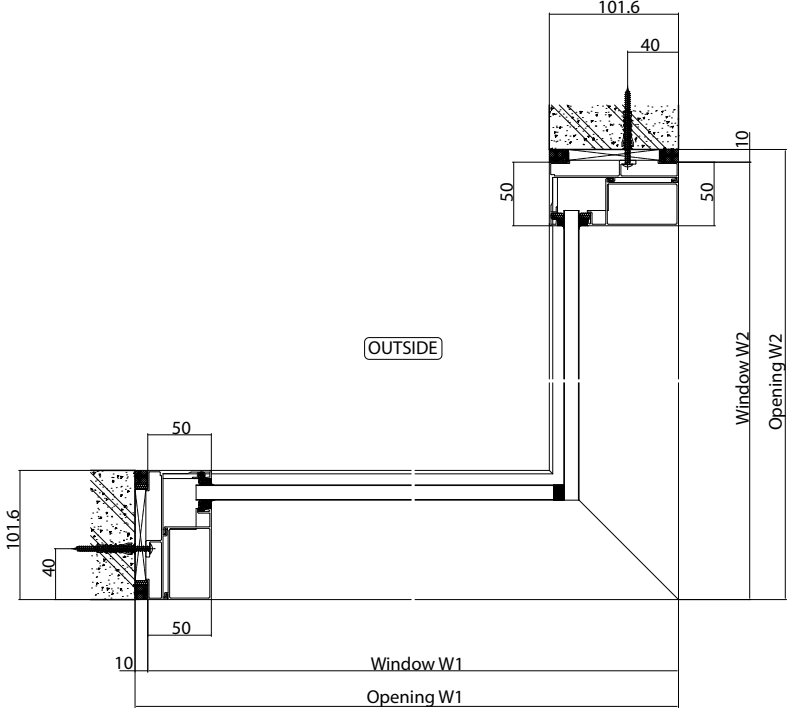


Horizontal section: Fixed

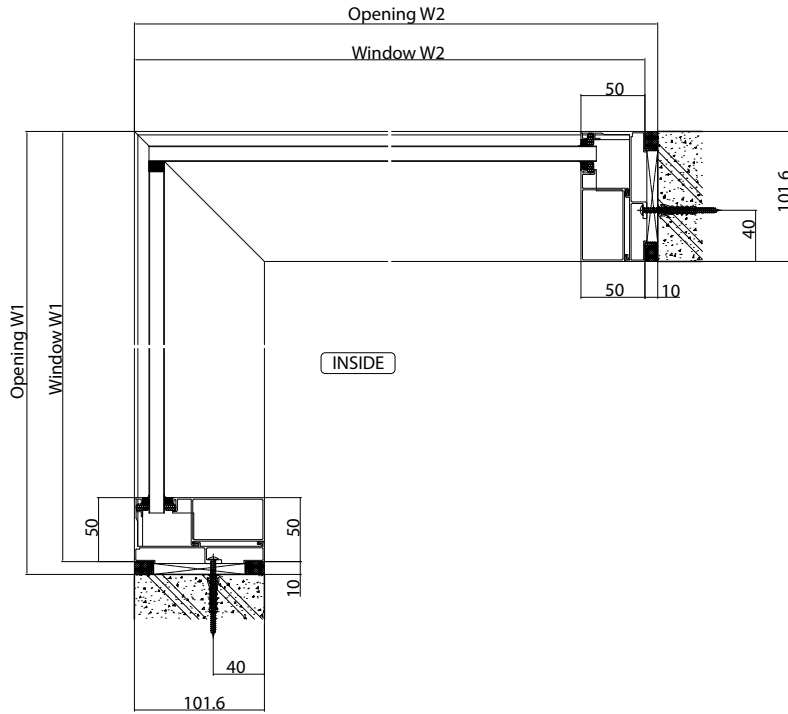




Vertical section: Corner Fixed



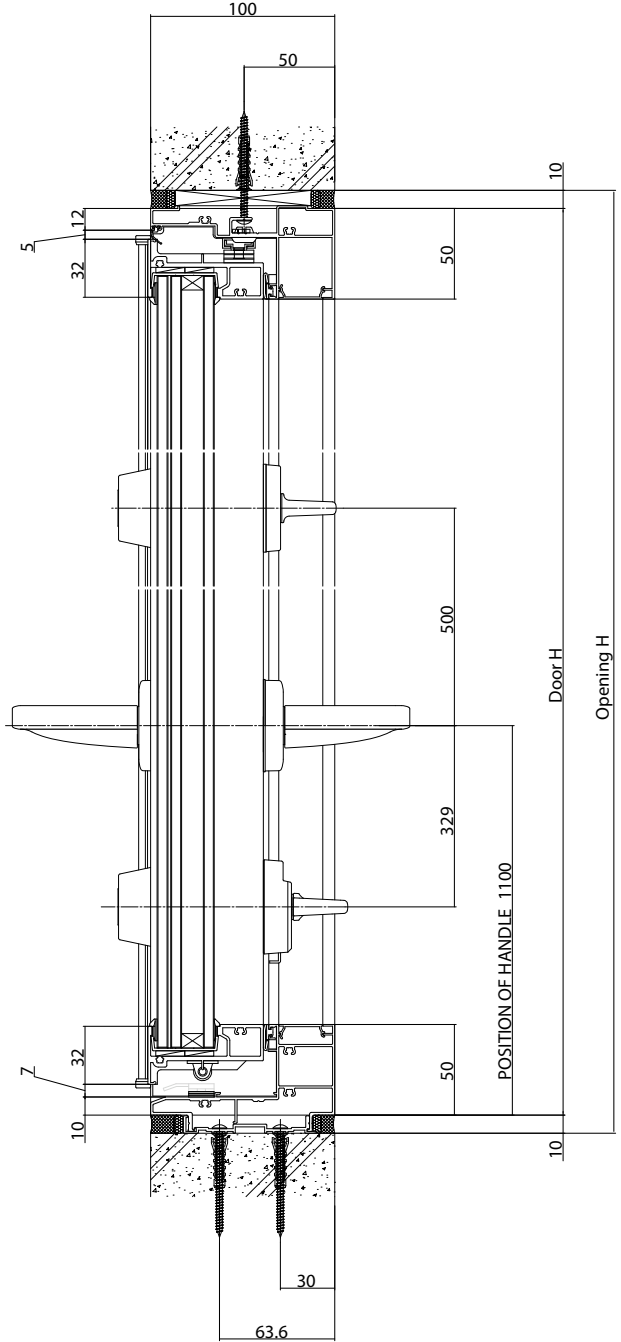
Horizontal section: Inward Corner Fixed



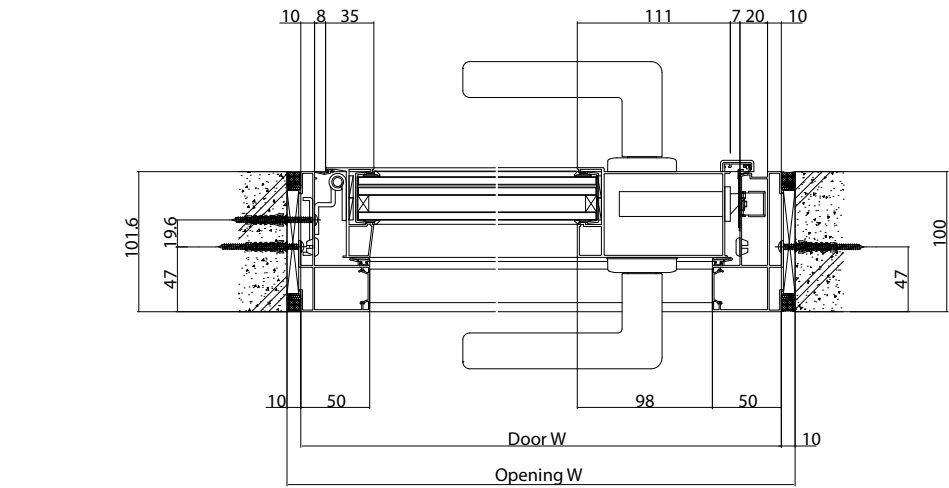
Horizontal section: Outward Corner Fixed

# GRANTS

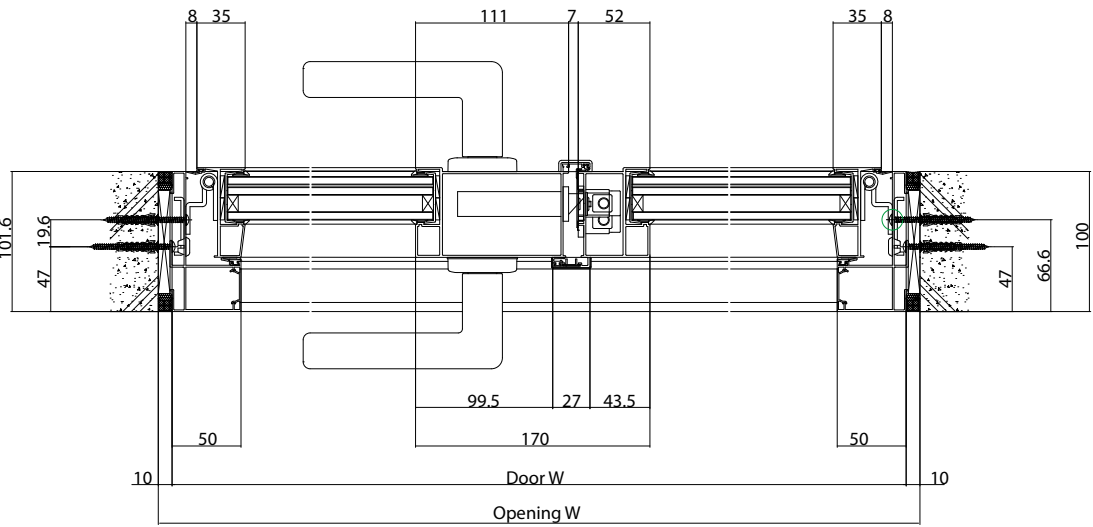
## OUT-SWING DOOR



Vertical section: Out-swing door



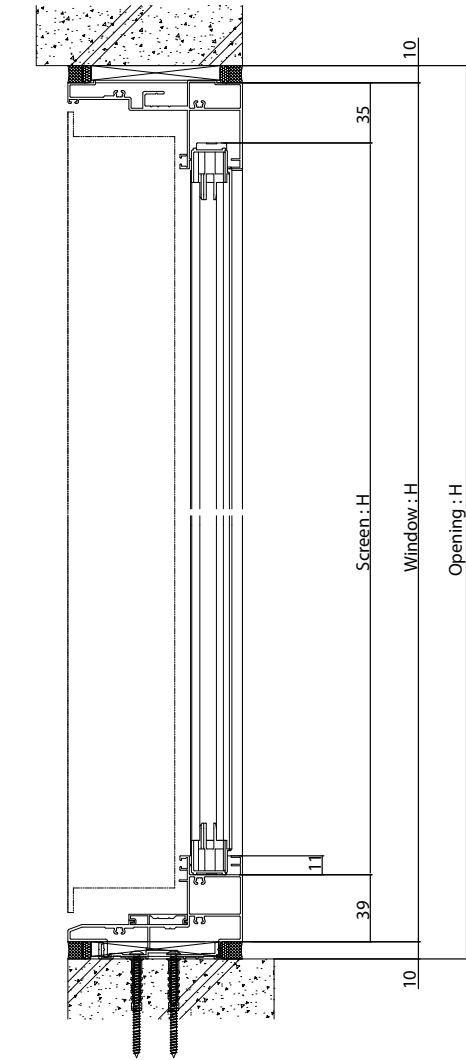
Horizontal section: Out-swing door (single)



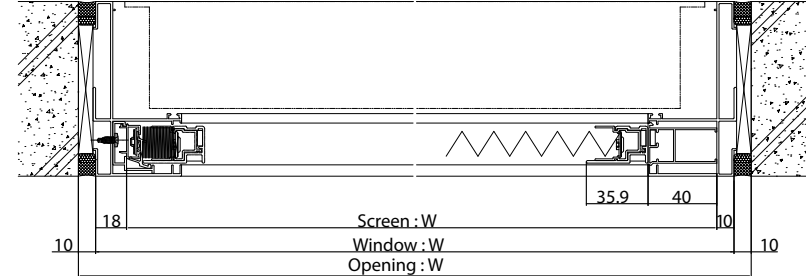
Horizontal section: Out-swing door (double)

# GRANTS

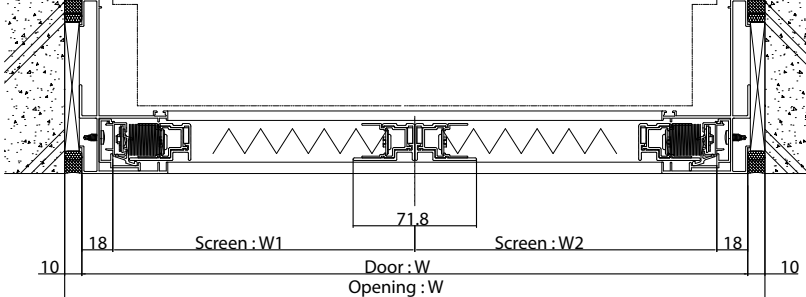
## INSECT SCREEN FOR SWING



Vertical section: Insect screen for swing



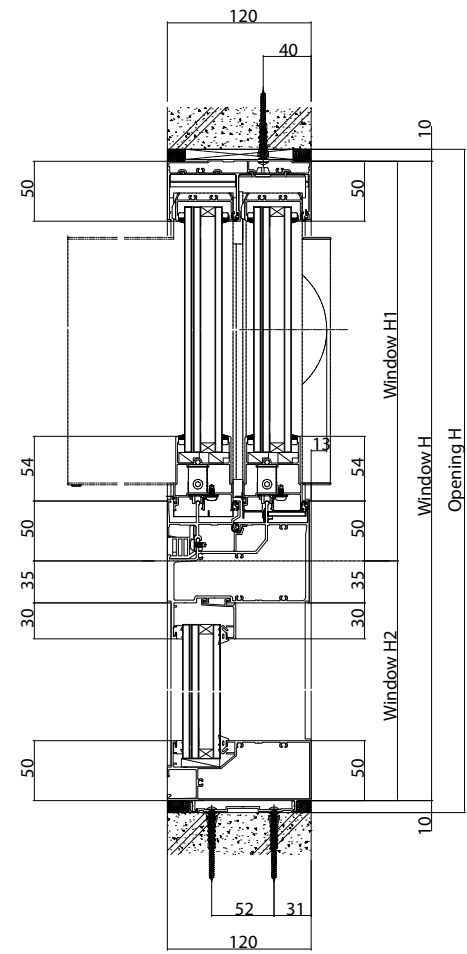
Horizontal section: Insect screen for swing (single)



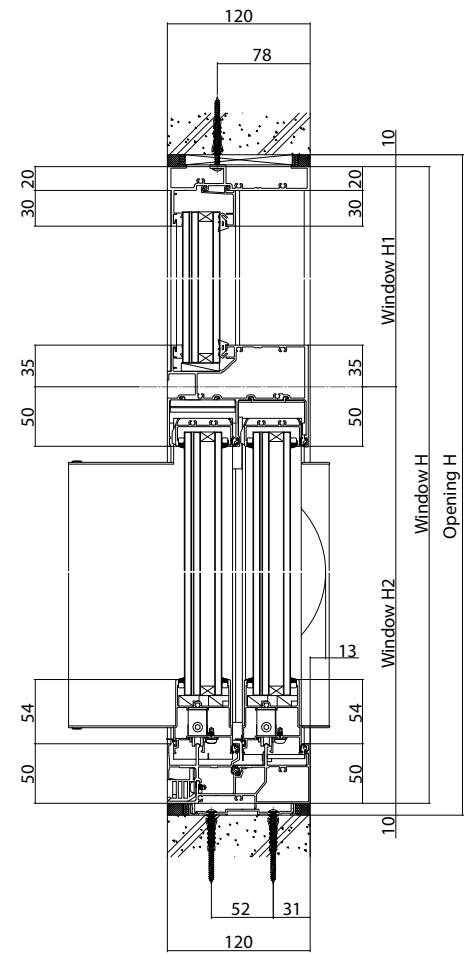
Horizontal section: Insect screen for swing (double)

# GRANTS

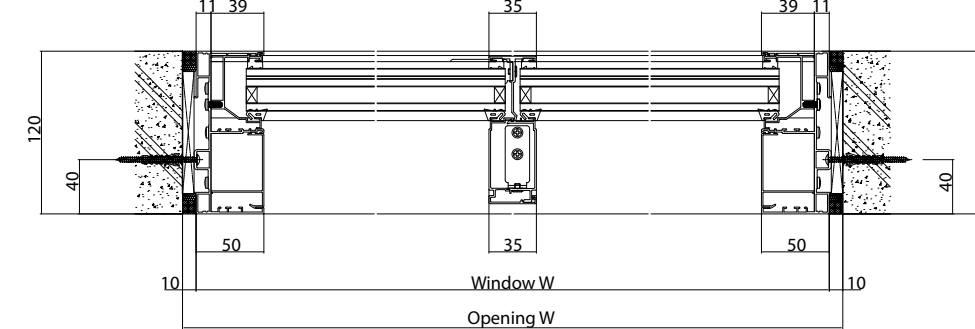
## COMBINATION WINDOW



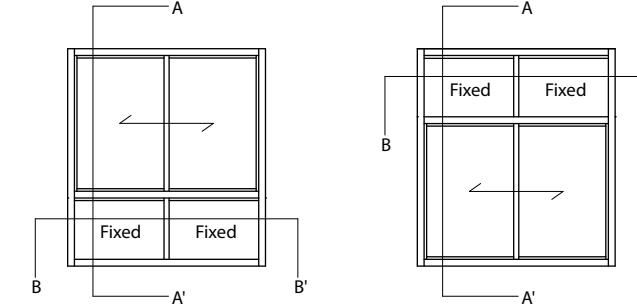
Vertical section: Sliding/Fixed A-A'



Vertical section: Fixed/Sliding A-A'



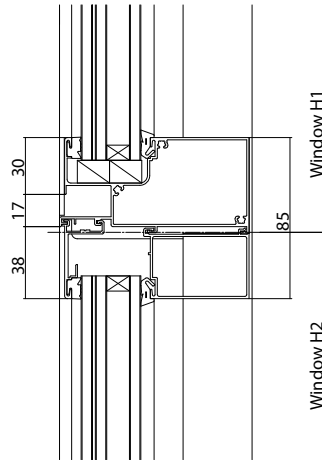
Horizontal section: Sliding/Fixed or Fixed/Sliding B-B'



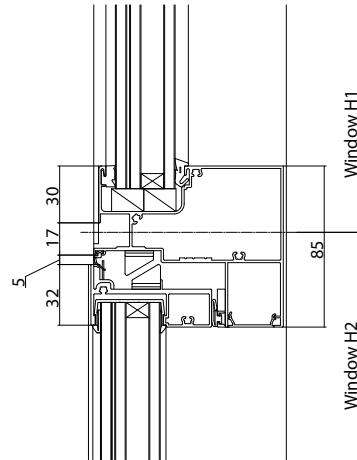


# GRANTS

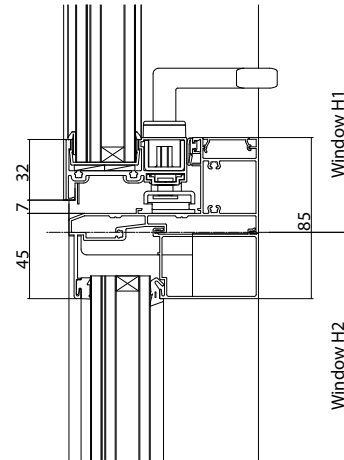
## TRANSOM



Vertical section:  
Fixed/Fixed transom



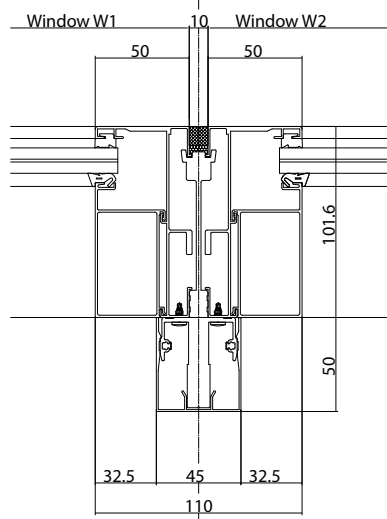
Vertical section:  
Fixed/Projection transom



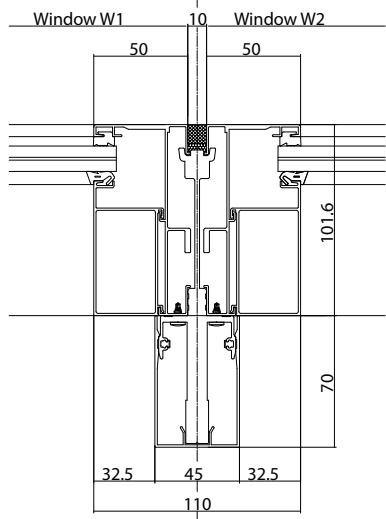
Vertical section:  
Projection/Fixed transom

# GRANTS

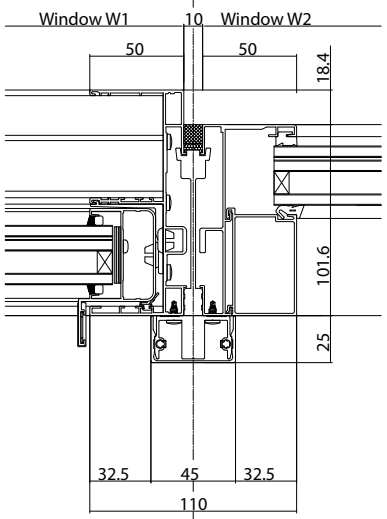
## MULLION



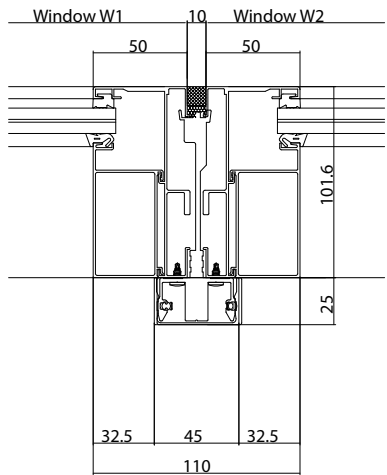
Mullion type B



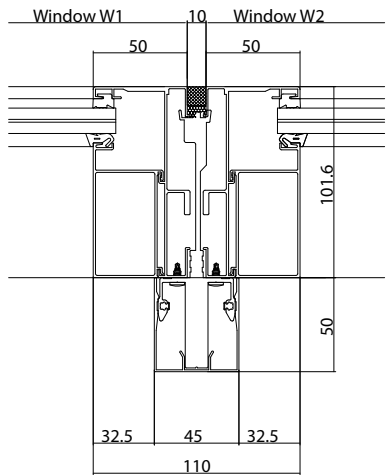
Mullion type C



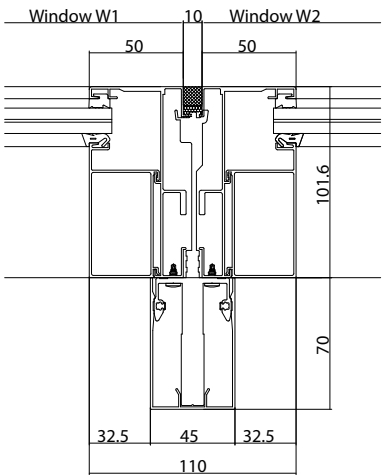
Mullion type A with sliding window



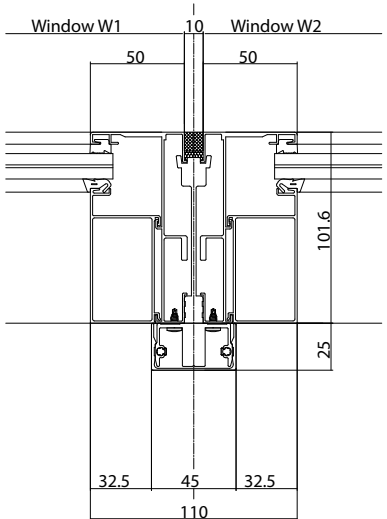
Mullion Adjust type A



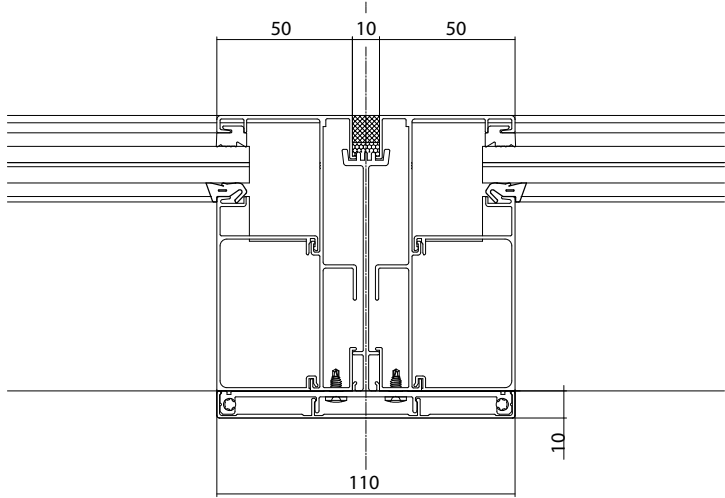
Mullion Adjust type B



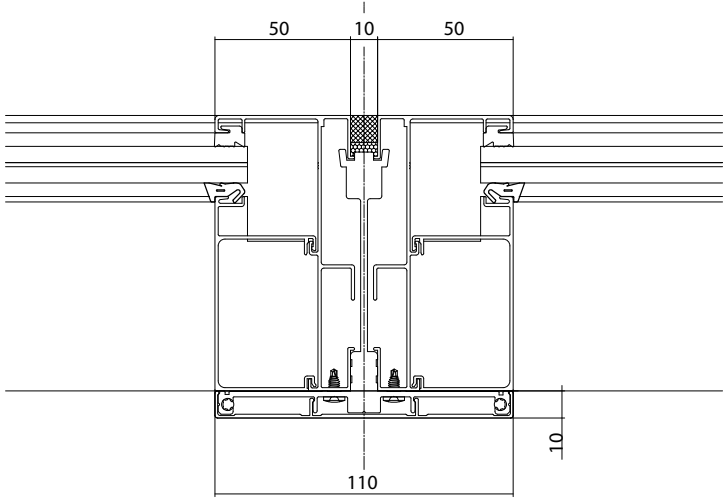
Mullion Adjust type C



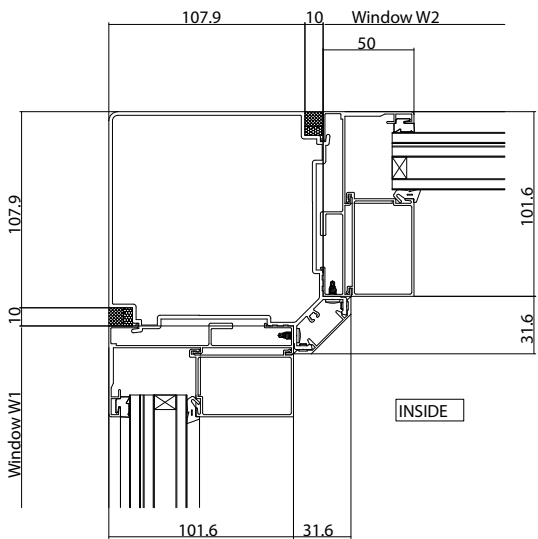
Mullion type A



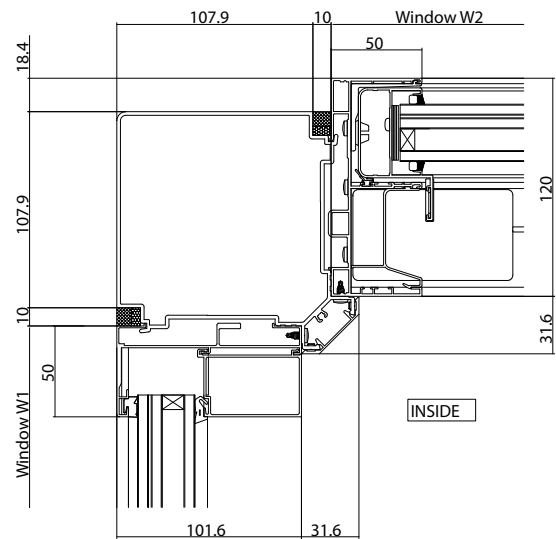
Mullion 180° Flat A



Mullion 180° Flat B



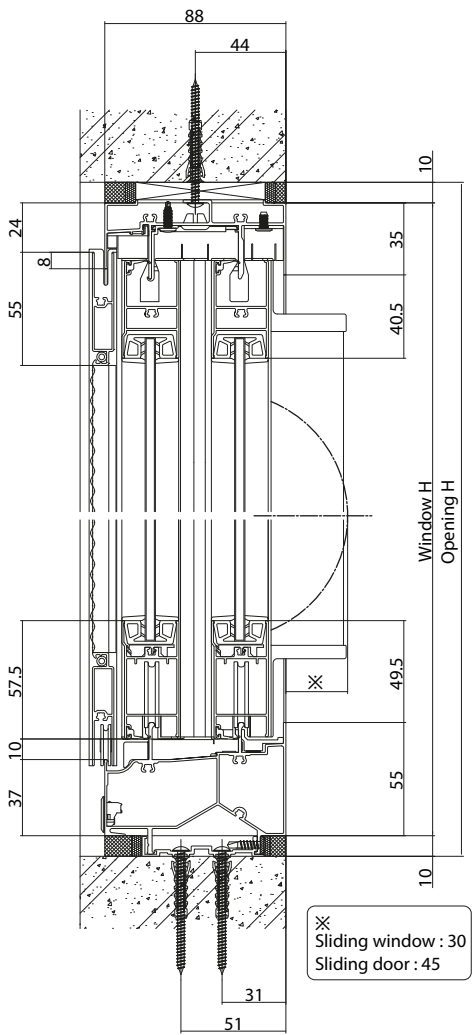
Corner mullion



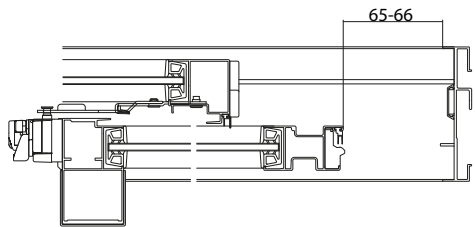
Corner mullion with sliding window

# ATIS PLUS

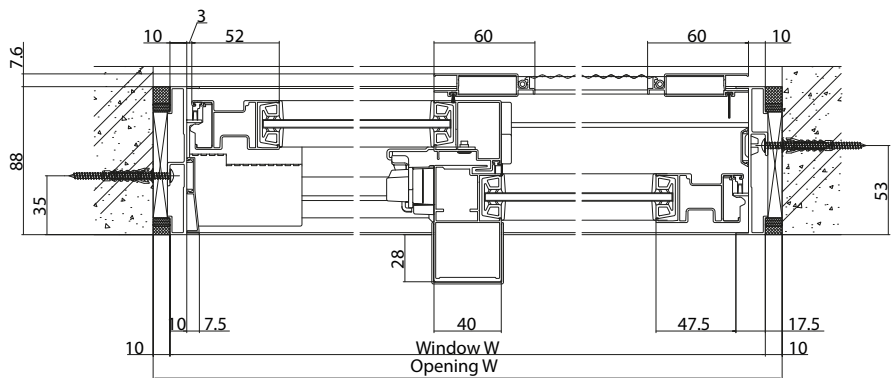
## SLIDING (2P2T, 4P2T) WITH OUTSIDE INSECT SCREEN



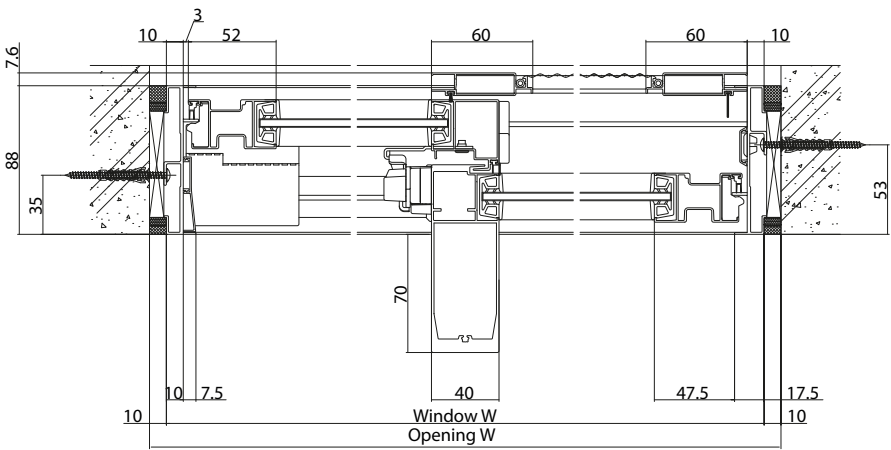
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
with TL-X screen



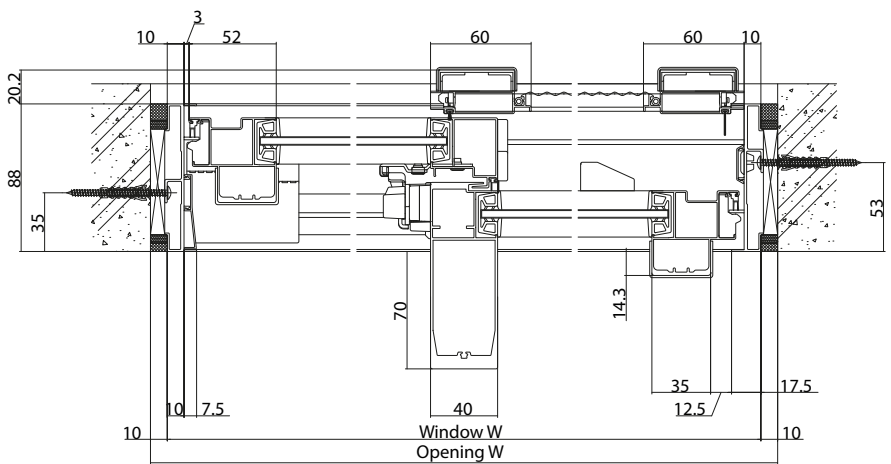
Options (limit arm) Jamb detail



Horizontal section: Sliding window (2 panels on 2 tracks) with TL-X screen

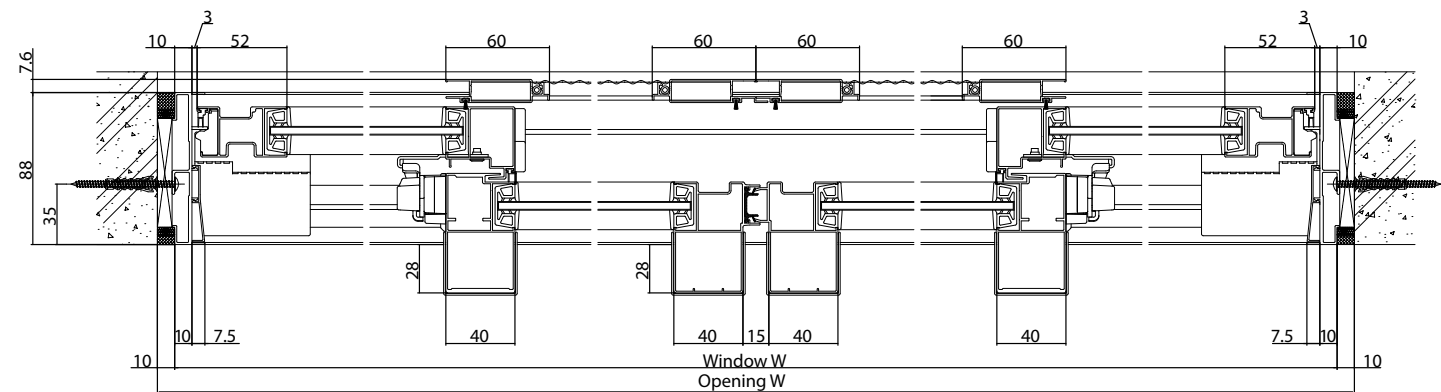


Horizontal section: Sliding door (2 panels on 2 tracks)  $H \leq 2100$  with TL-X screen

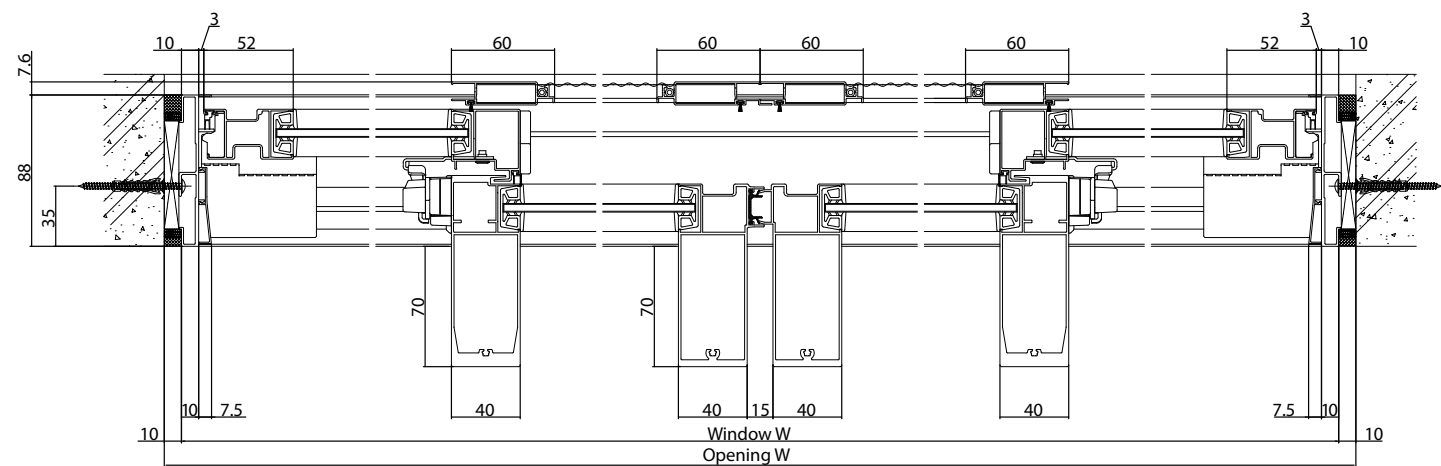


Horizontal section: Sliding door (2 panels on 2 tracks)  $H > 2100$  with TR-X screen

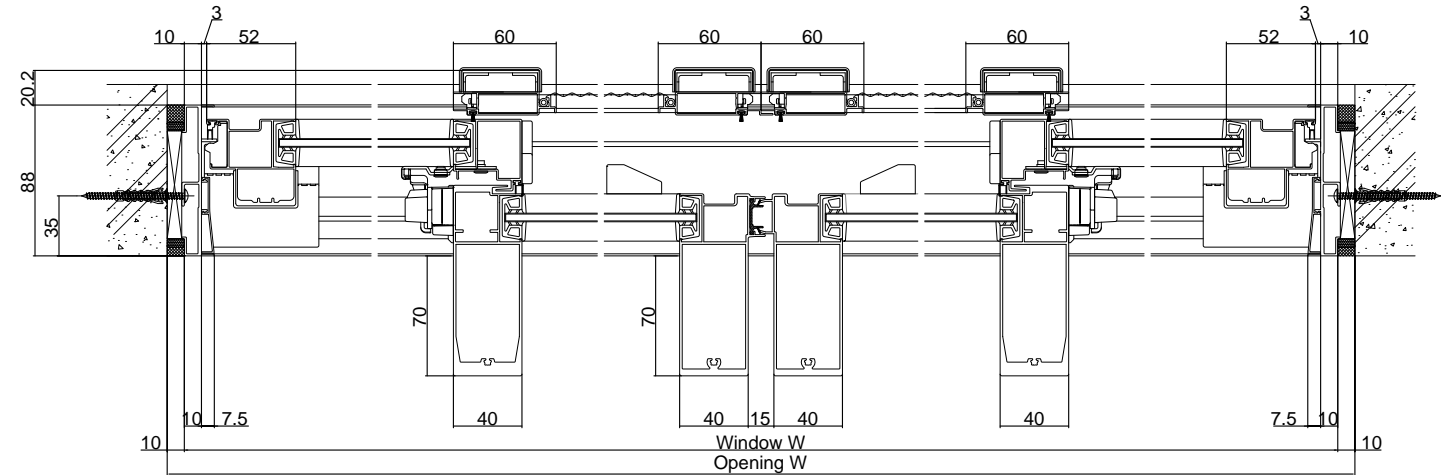




Horizontal section: Sliding window (4 panels on 2 tracks) with TL-X screen



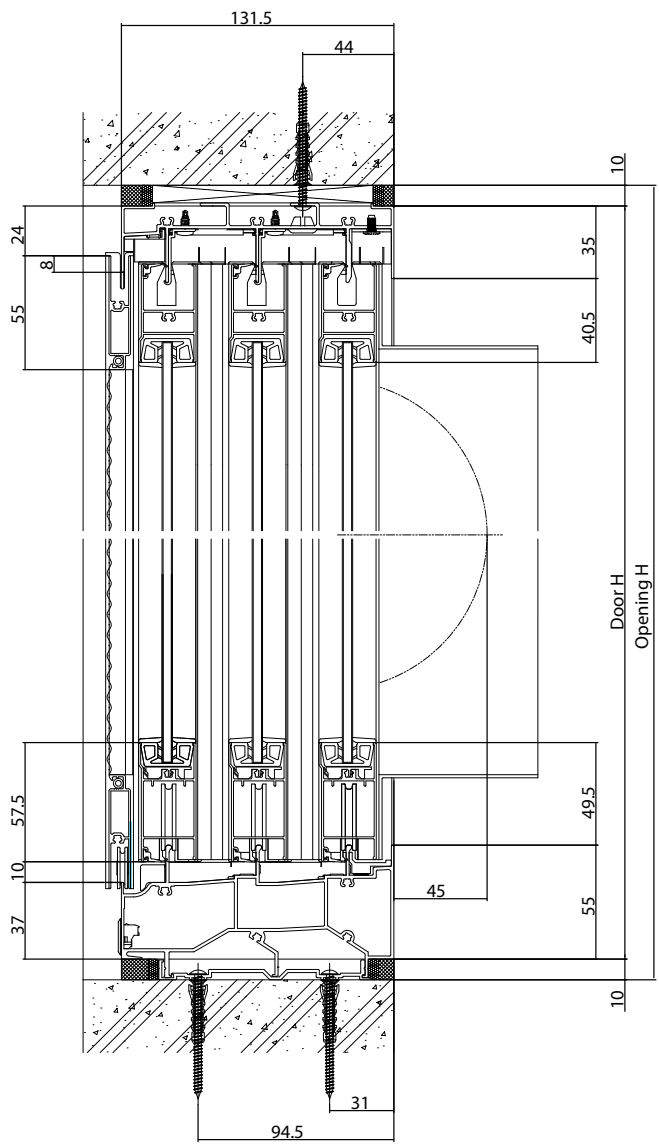
Horizontal section: Sliding door (4 panels on 2 tracks) H ≤ 2100 with TL-X screen



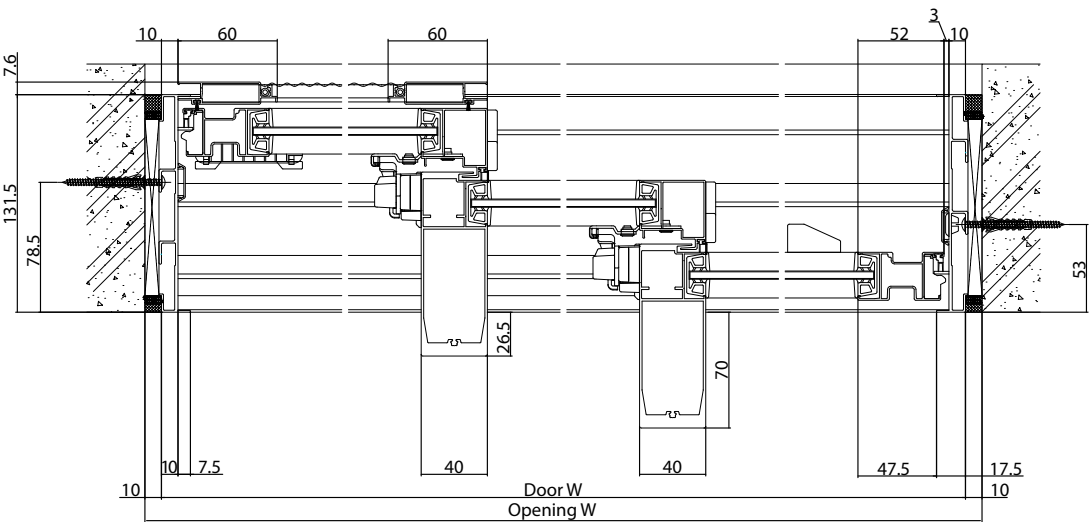
Horizontal section: Sliding door (4 panels on 2 tracks) H > 2100 with TR-X screen

# ATIS PLUS

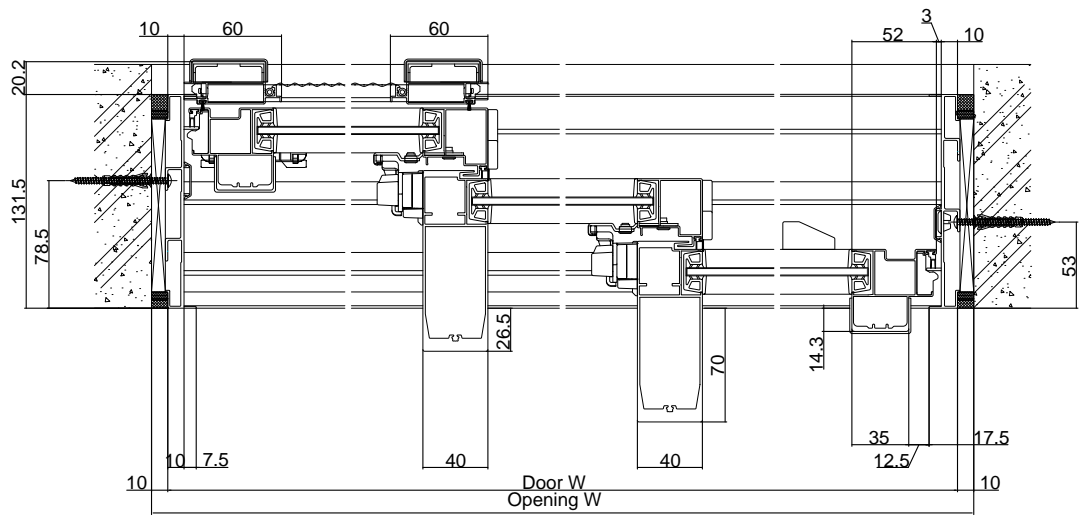
## SLIDING (3P3T) WITH OUTSIDE INSECT SCREEN



Vertical section: Sliding door (3 panels on 3 tracks) with TL-X screen



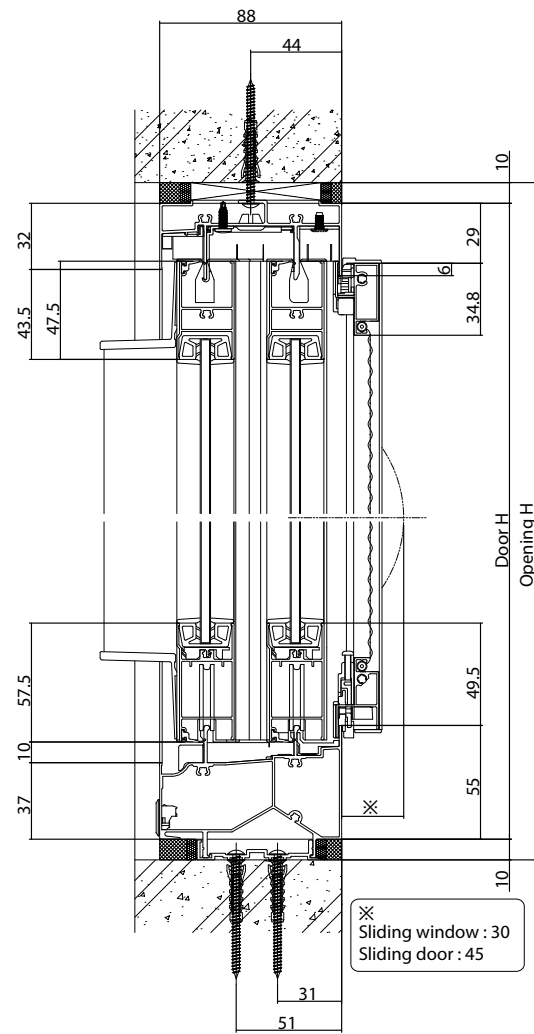
Horizontal section: Sliding door (3 panels on 3 tracks) H ≤ 2100 with TL-X screen



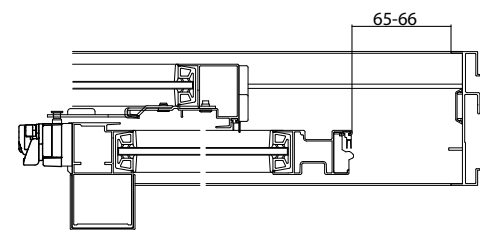
Horizontal section: Sliding door (3 panels on 3 tracks) H > 2100 with TR-X screen

# ATIS PLUS

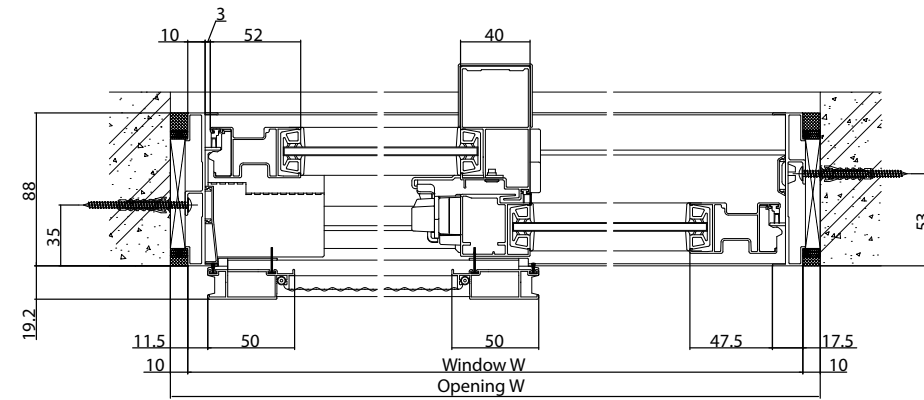
## SLIDING (2P2T, 4P2T) WITH INSIDE INSECT SCREEN



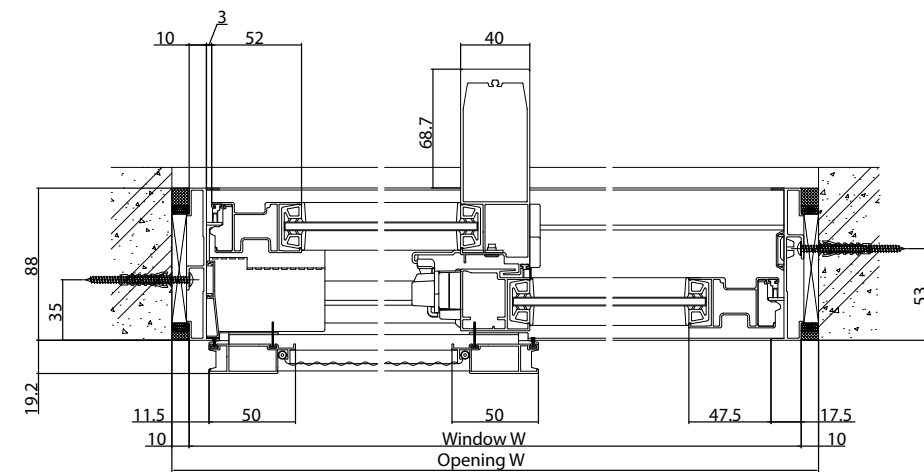
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
with TL-N screen



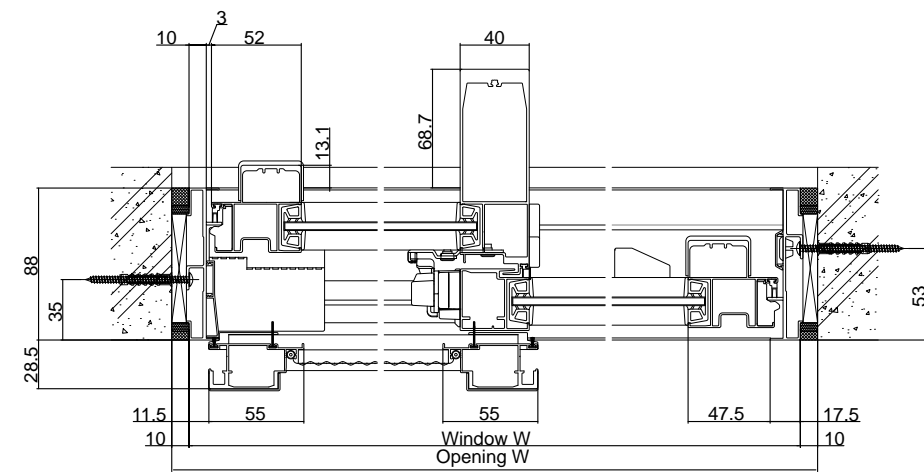
Options (limit arm) Jamb detail



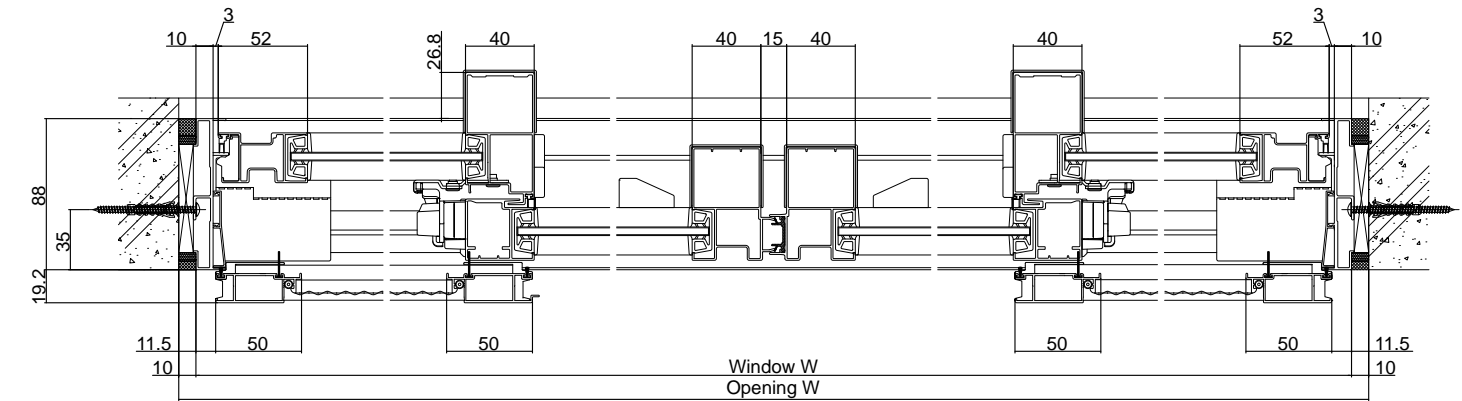
Horizontal section: Sliding window (2 panels on 2 tracks) with TL-N screen



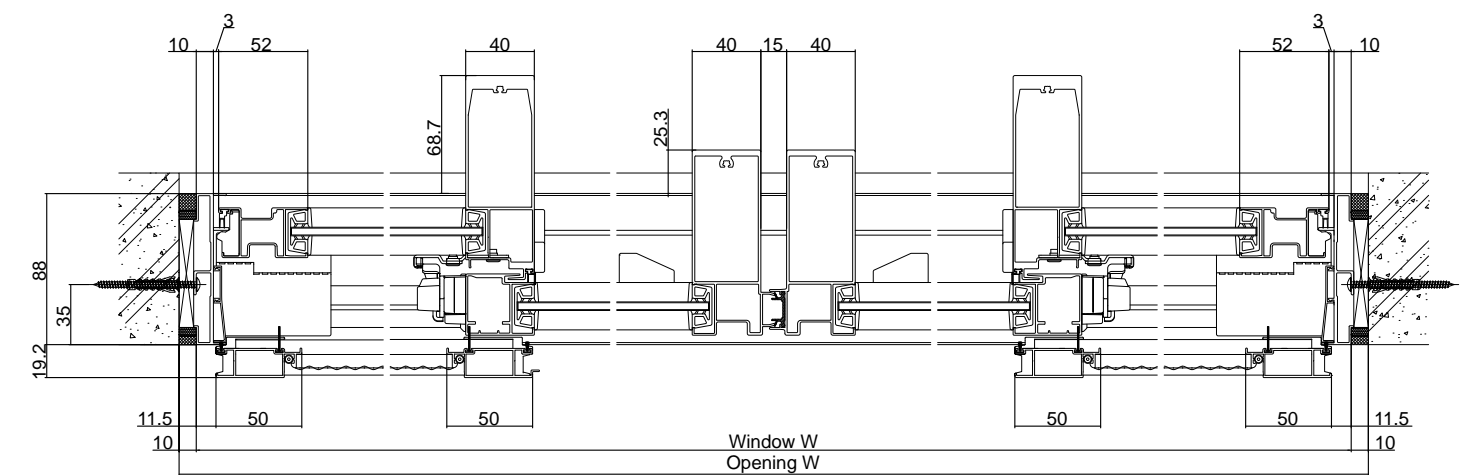
Horizontal section: Sliding door (2 panels on 2 tracks)  $H \leq 2100$  with TL-N screen



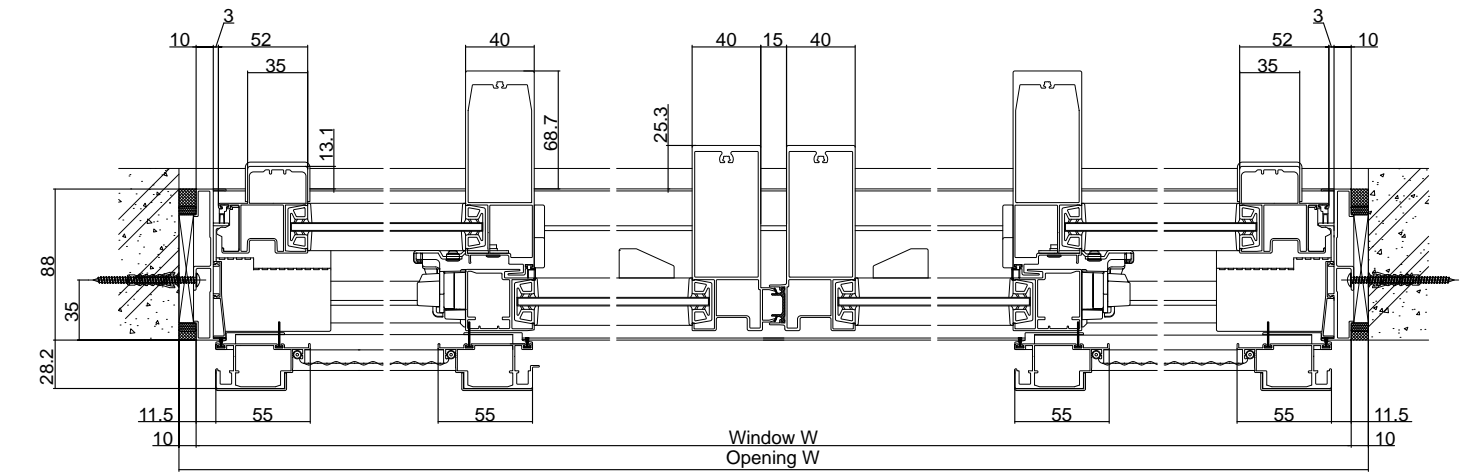
Horizontal section: Sliding door (2 panels on 2 tracks)  $H > 2100$  with TR-N screen



Horizontal section: Sliding window (4 panels on 2 tracks) with TL-N screen



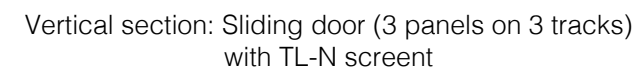
Horizontal section: Sliding door (4 panels on 2 tracks)  $H \leq 2100$  with TL-N screen



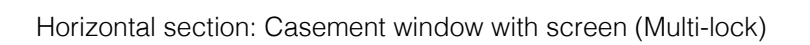
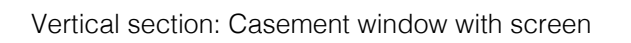
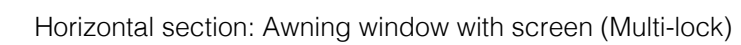
Horizontal section: Sliding door (4 panels on 2 tracks)  $H > 2100$  with TR-N screen



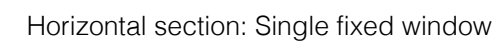
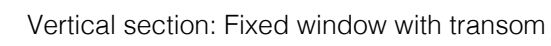
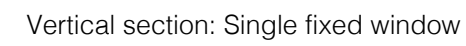
## SLIDING (3P3T) WITH INSIDE INSECT SCREEN



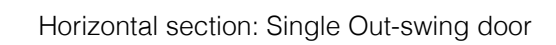
## AWNING, CASEMENT



## FIXED WINDOW



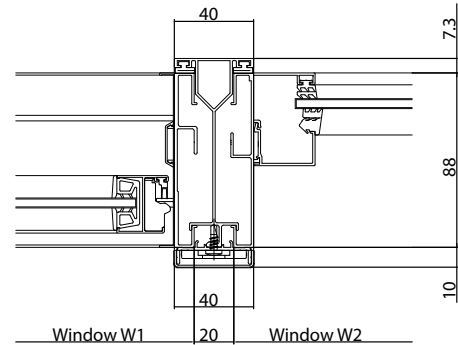
## OUT-SWING DOOR (SINGLE LEAF)



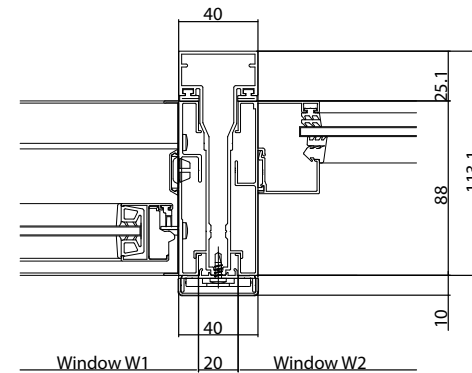


# ATIS PLUS

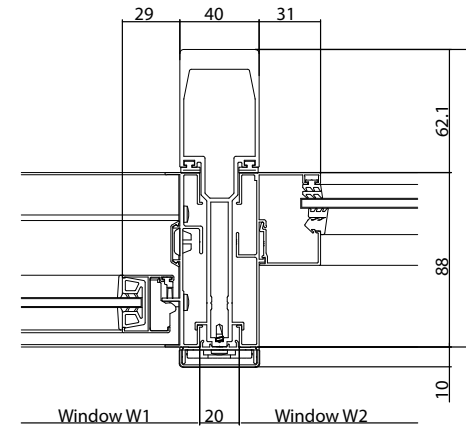
## TRANSOM & MULLION



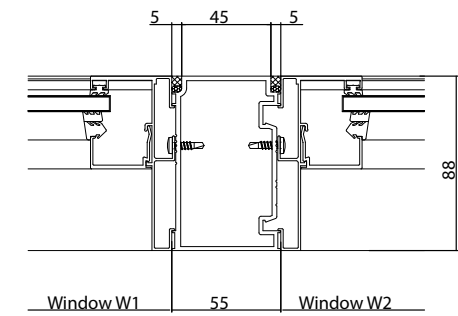
Mullion 180 Type A



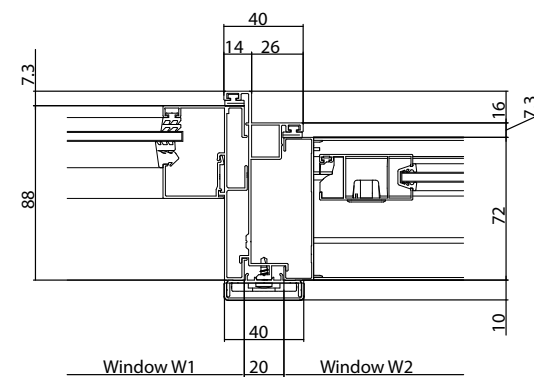
Mullion 180 Type B



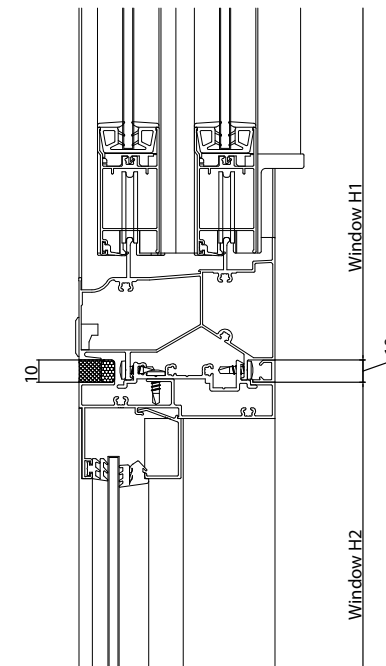
Mullion 180 Type C



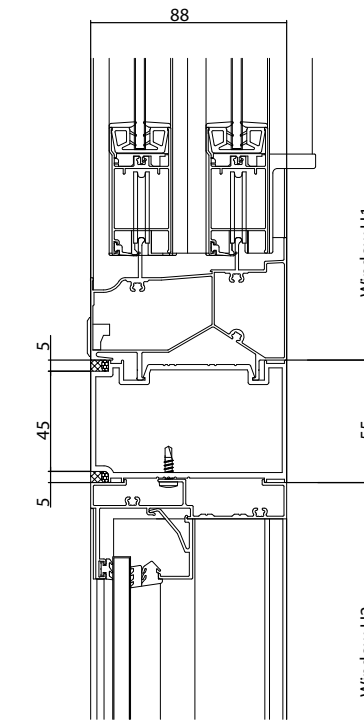
Reinforcement Mullion 180



Mullion 180 for WE combination



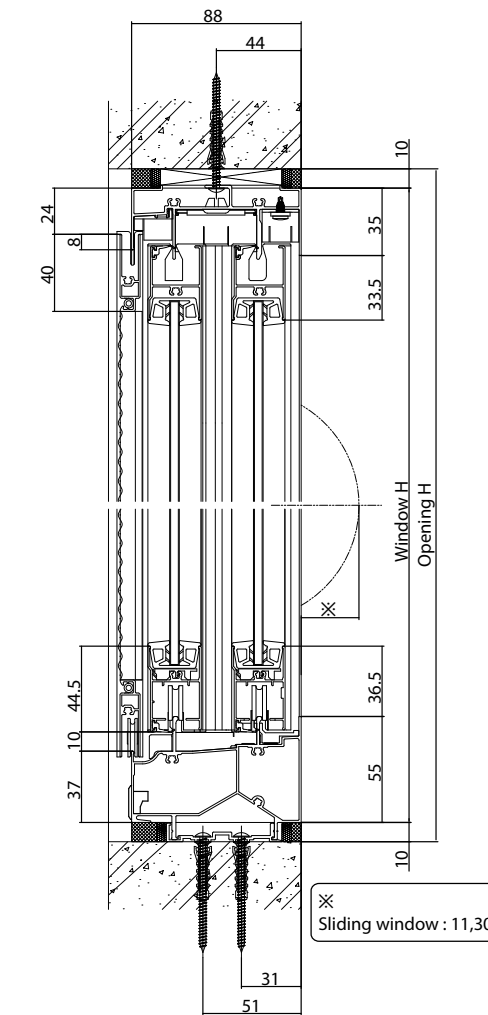
Transom Type A (88 mm)



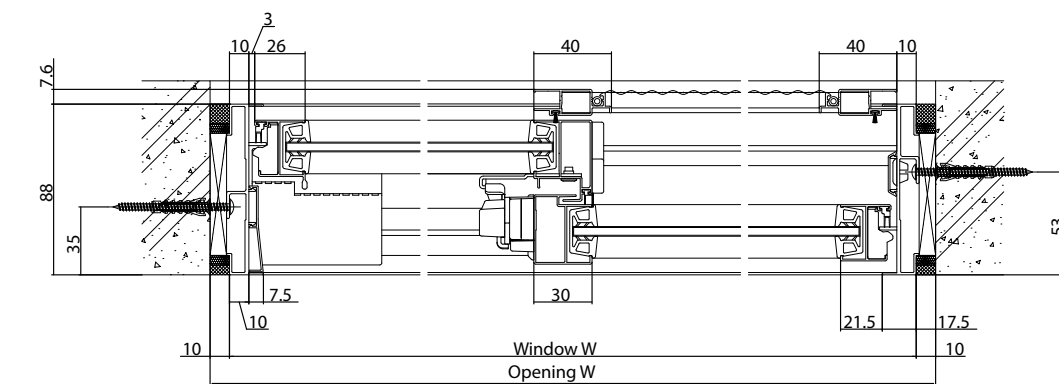
Reinforcement Transom

# ATIS

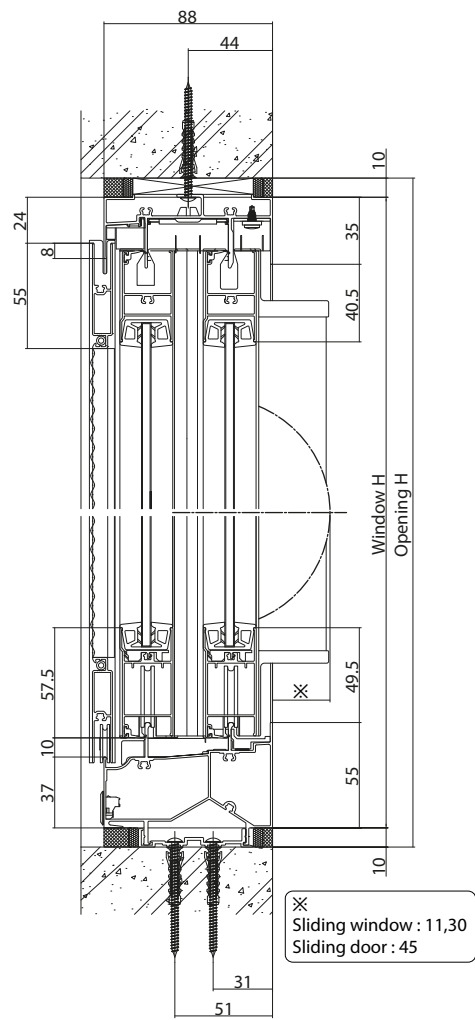
## SLIDING (2P2T, 4P2T) WITH OUTSIDE INSECT SCREEN



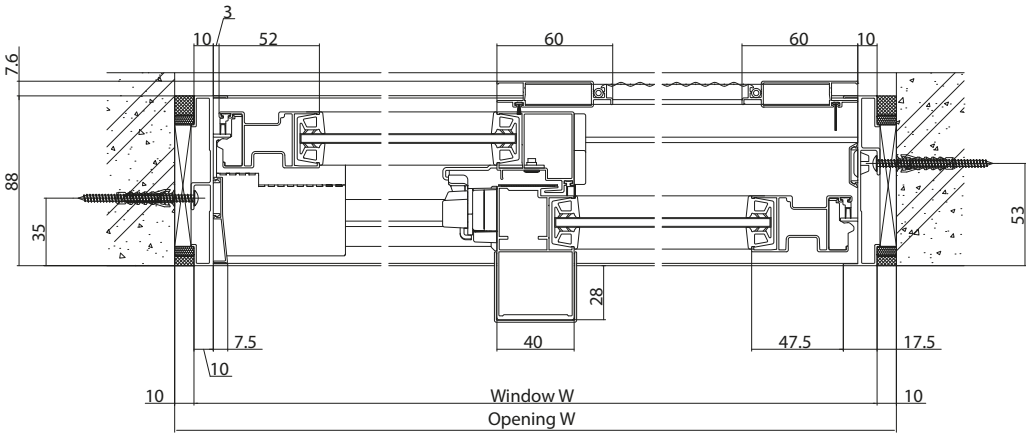
Vertical section: Sliding (2 panels on 2 tracks) Type A with TS-X screen



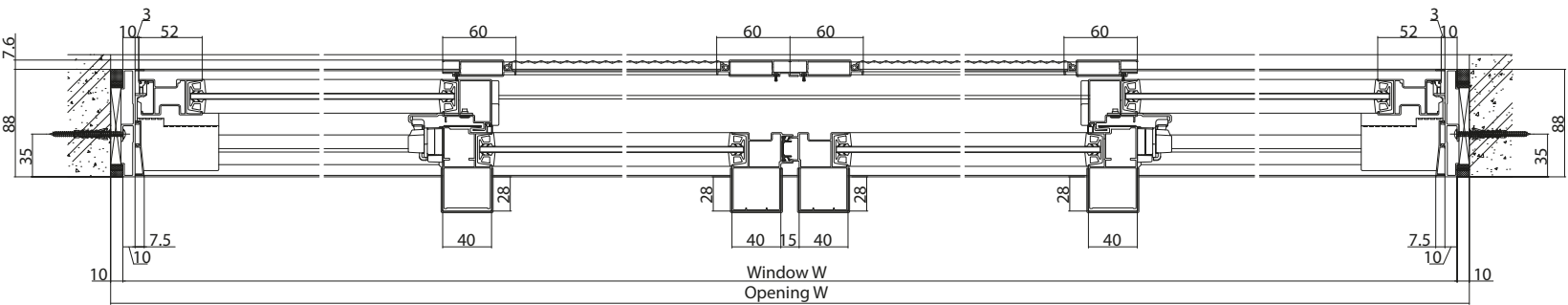
Horizontal section: Sliding (2 panels on 2 tracks) Type A with TS-X screen



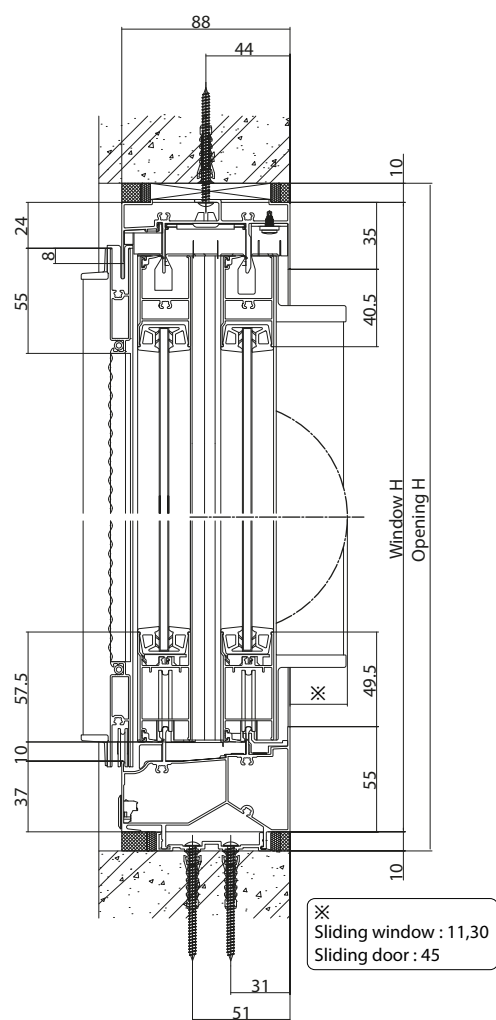
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
Type B with TL-X screen



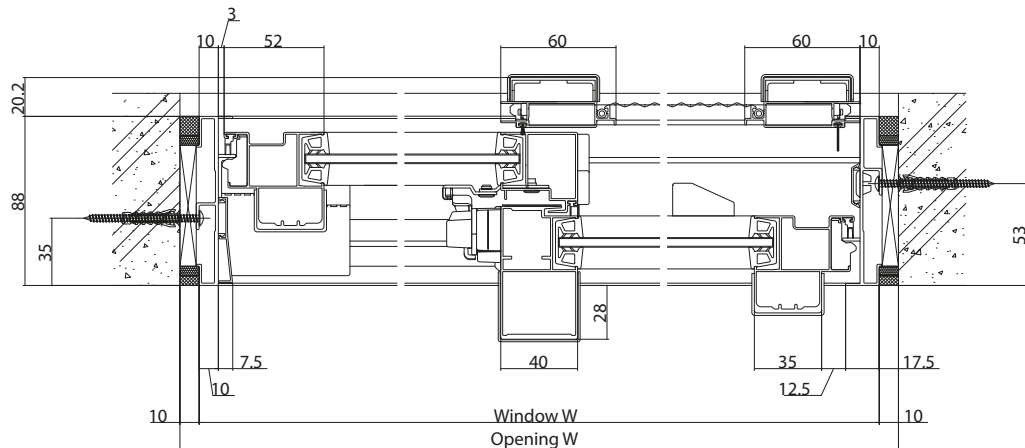
Horizontal section: Sliding (2 panels on 2 tracks) Type B with TL-X screen



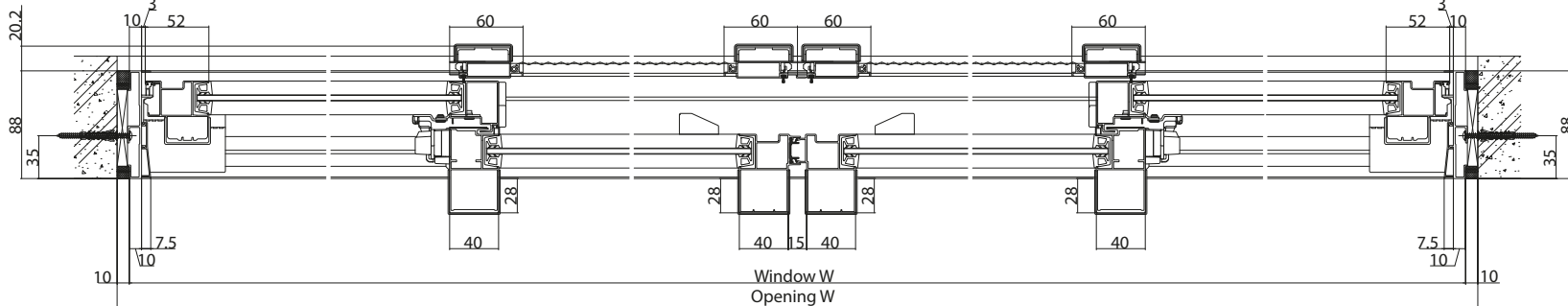
Horizontal section: Sliding (4 panels on 2 tracks) Type B with TL-X screen



Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
Type C with TR-X screen

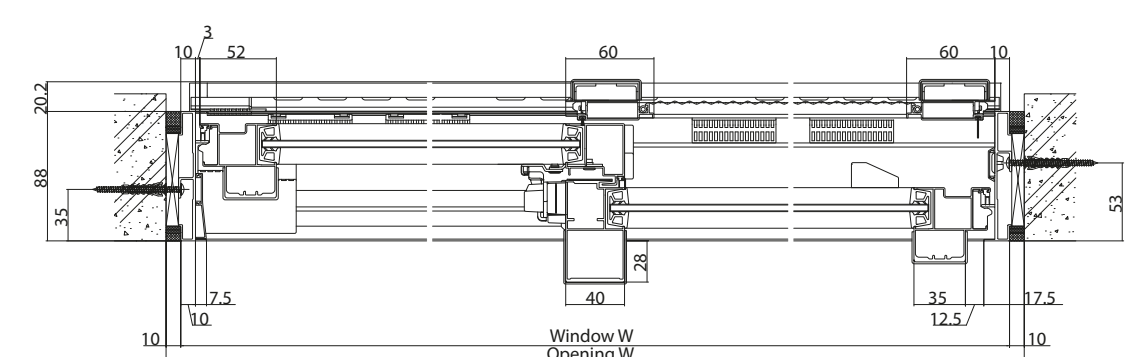
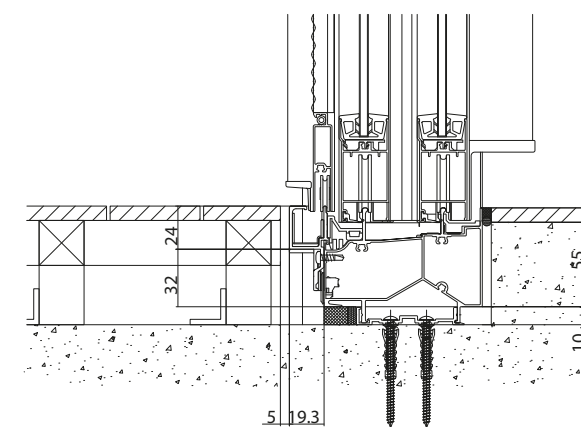
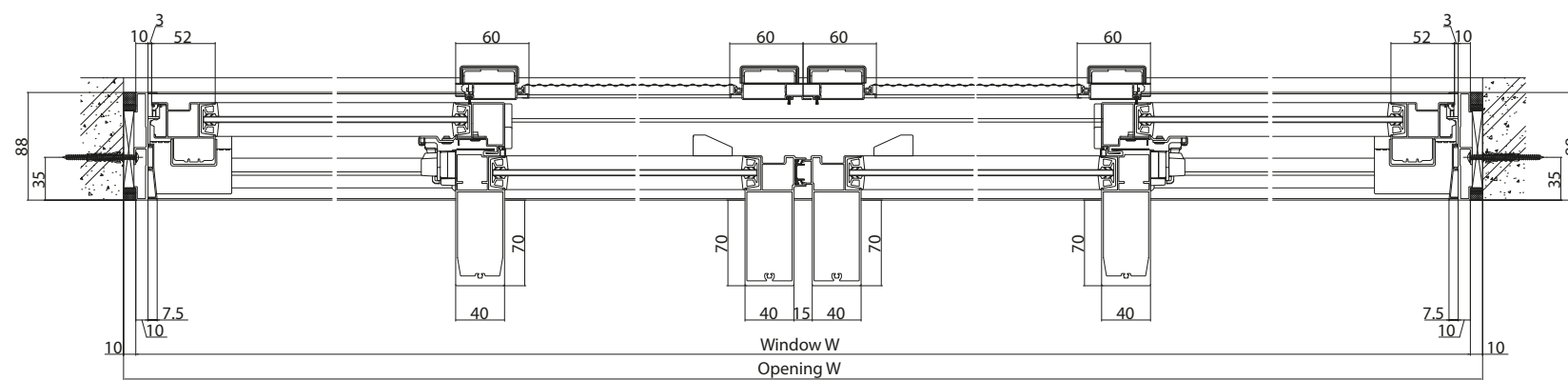
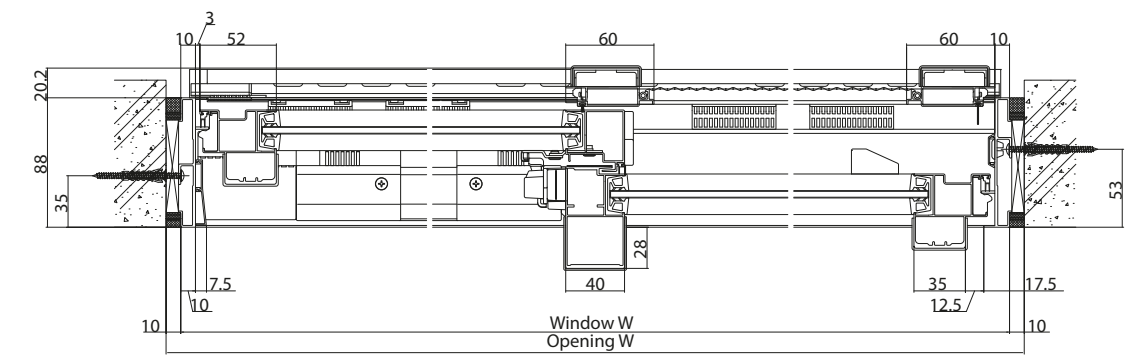
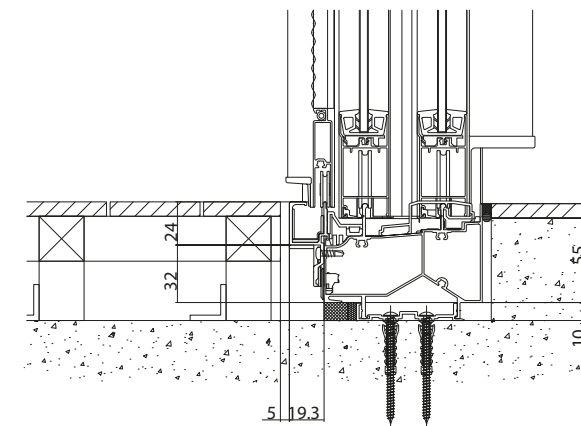
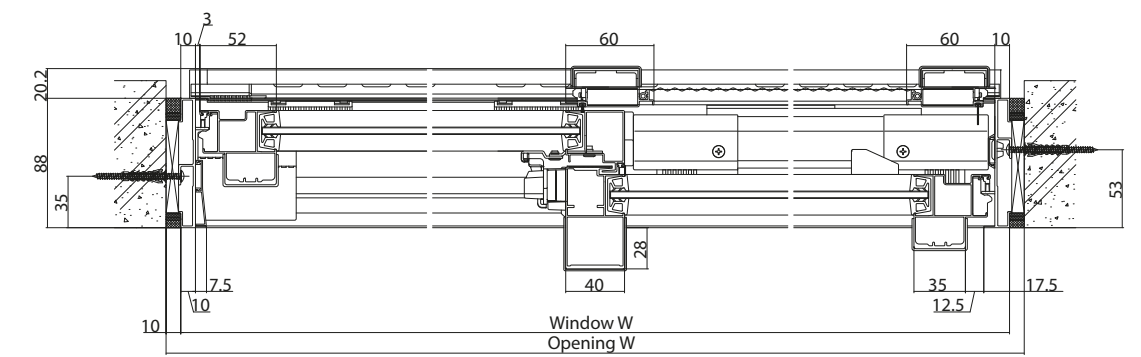
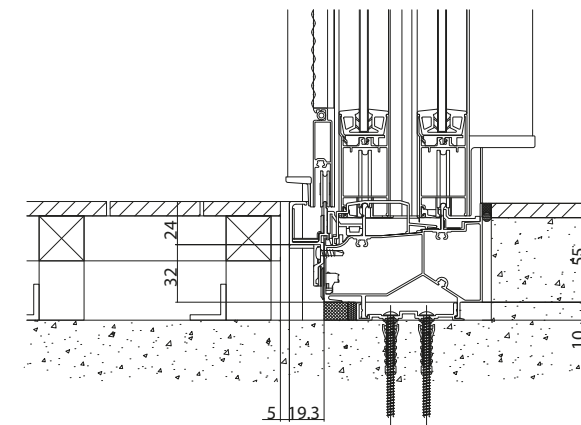
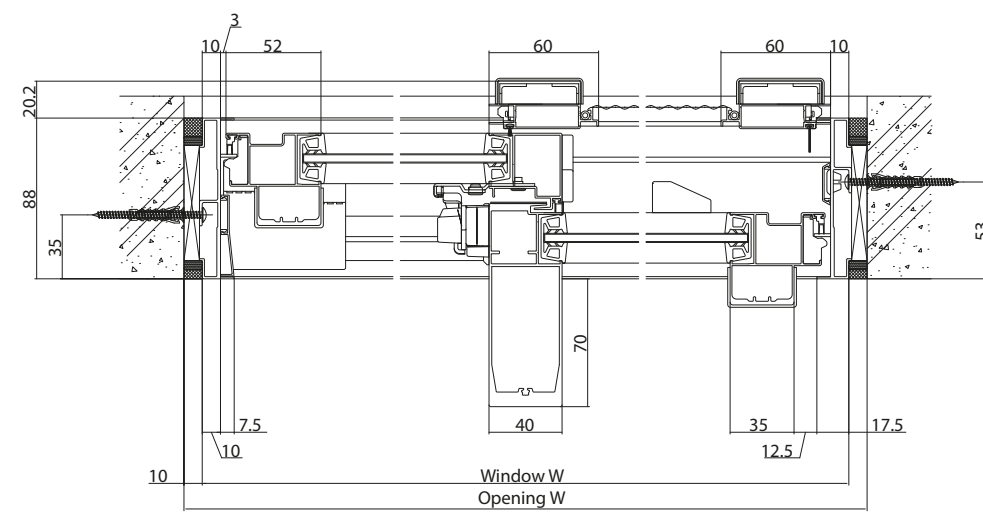
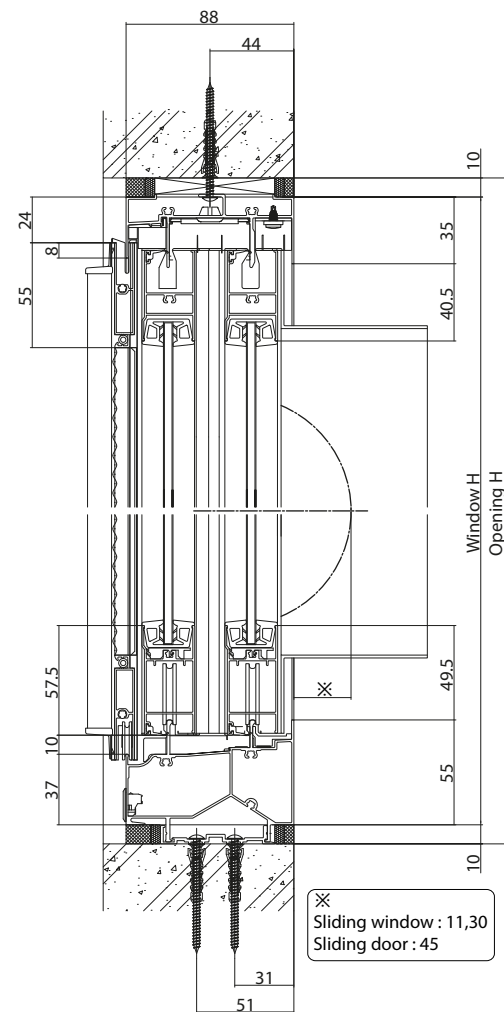


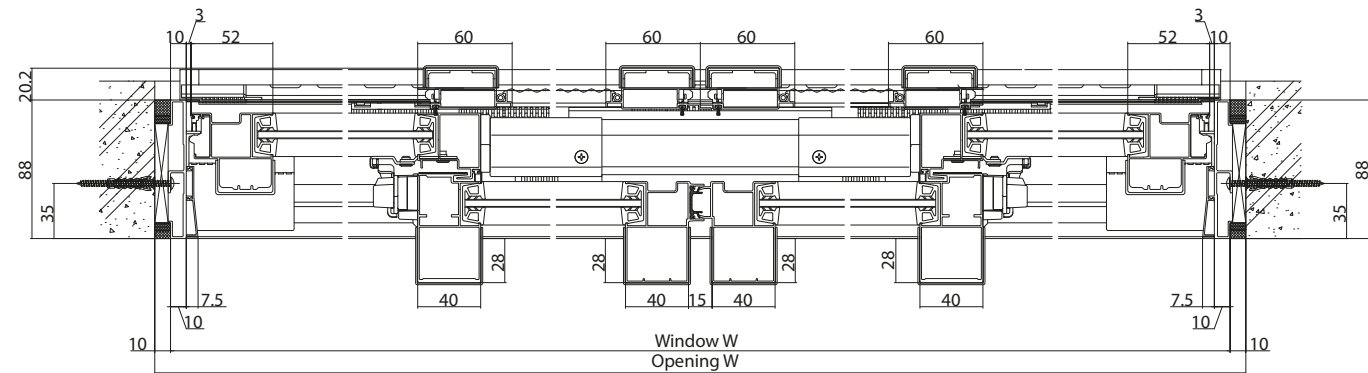
Horizontal section: Sliding (2 panels on 2 tracks) Type C with TR-X screen



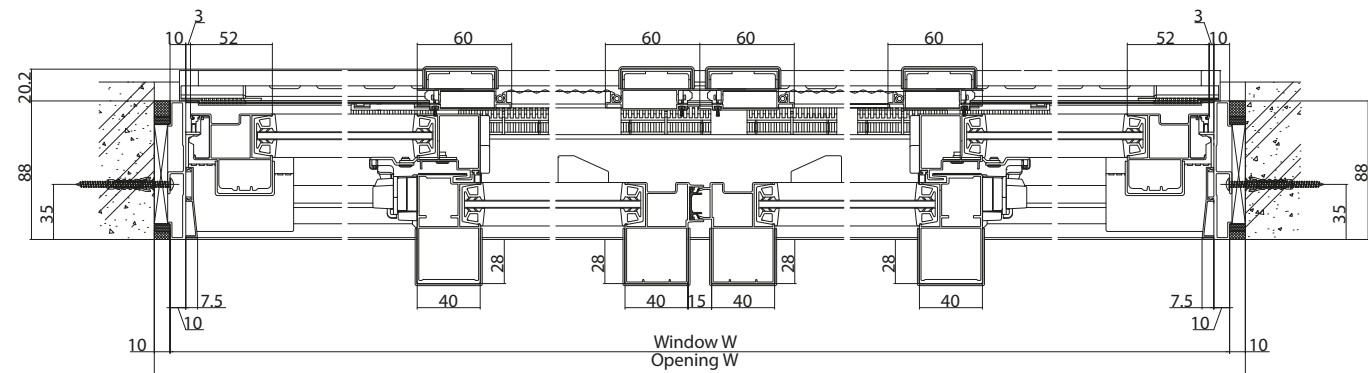
Horizontal section: Sliding (4 panels on 2 tracks) Type C with TR-X screen







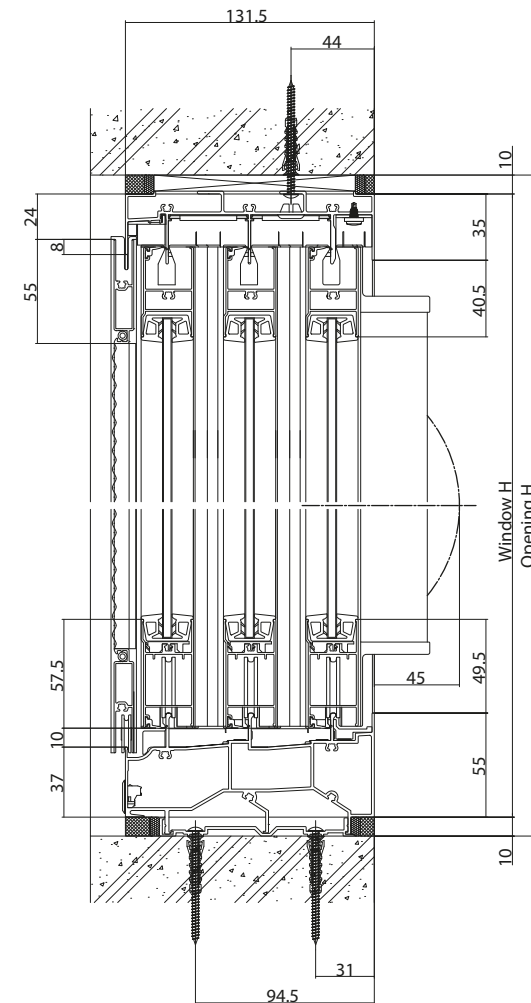
Horizontal section: 4 panels Barrier flat sill Outside option with TR-X screen



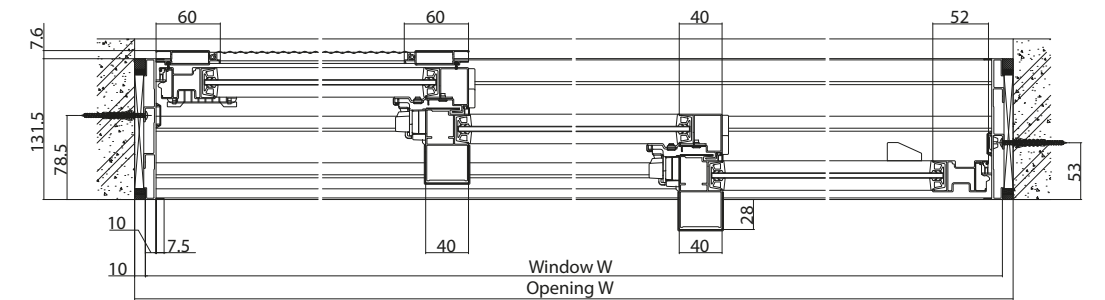
Horizontal section: 4 panels Outside screen rail option with TR-X screen

# ATIS

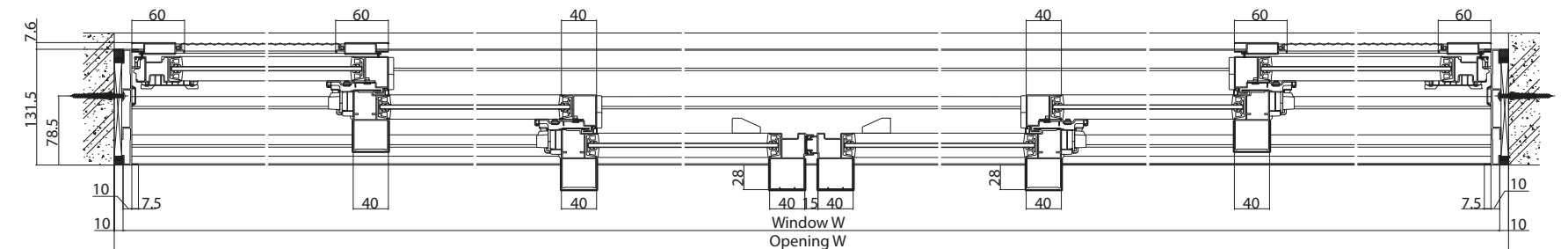
## SLIDING (3P3T, 6P3T) WITH OUTSIDE INSECT SCREEN



Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type B with TL-X screen

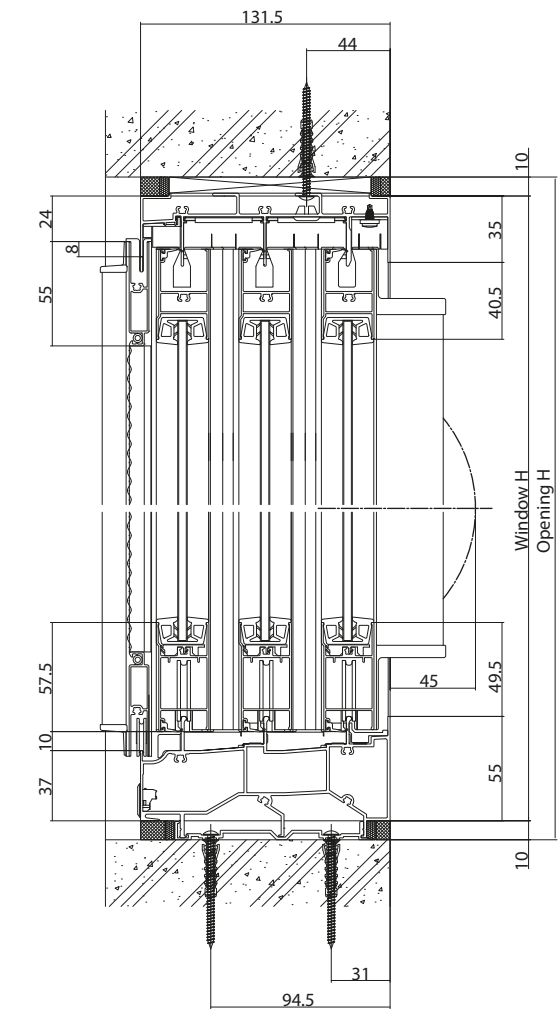


Horizontal section: Sliding (3 panels on 3 tracks) Type B with TL-X screen

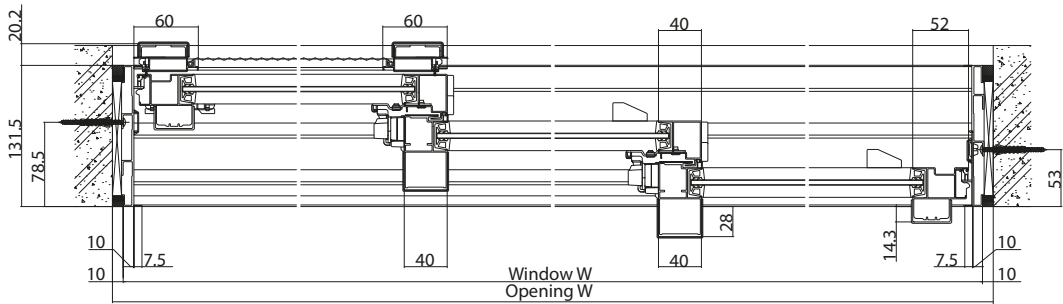


Horizontal section: Sliding (6 panels on 3 tracks) Type B with TL-X screen

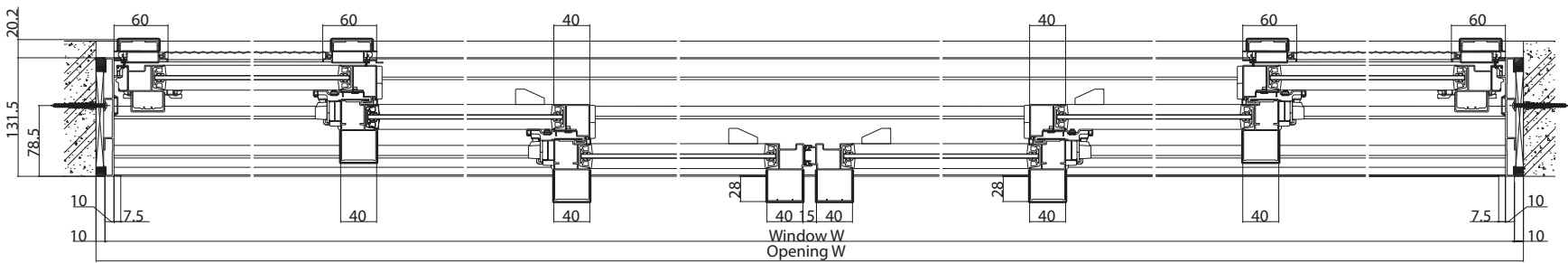




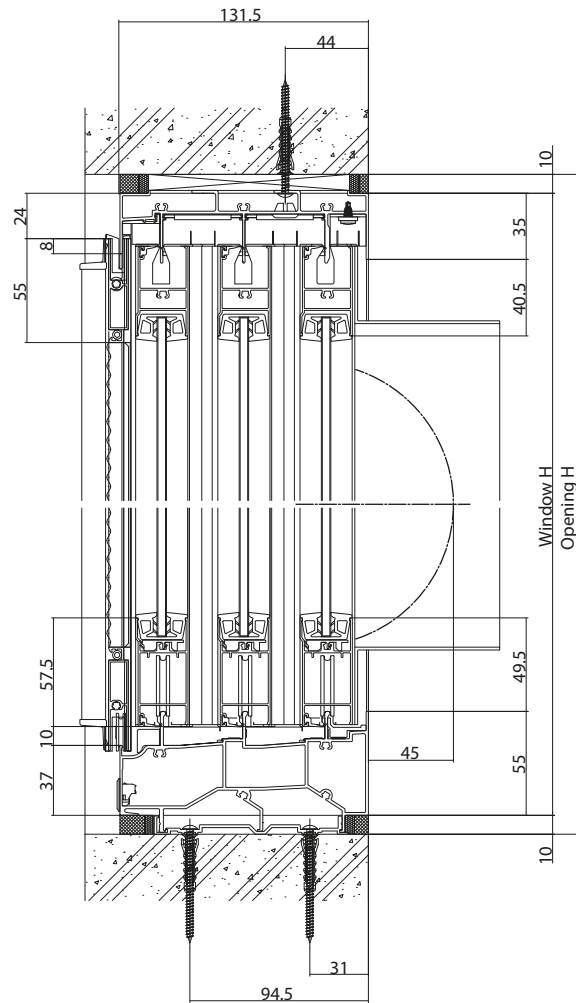
Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type C with TR-X screen



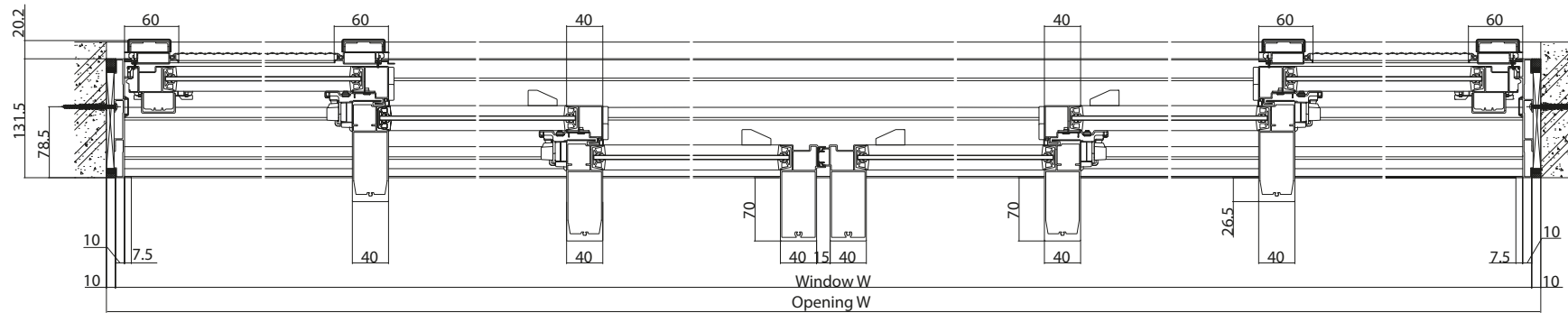
Horizontal section: Sliding (3 panels on 3 tracks) Type C with TR-X screen



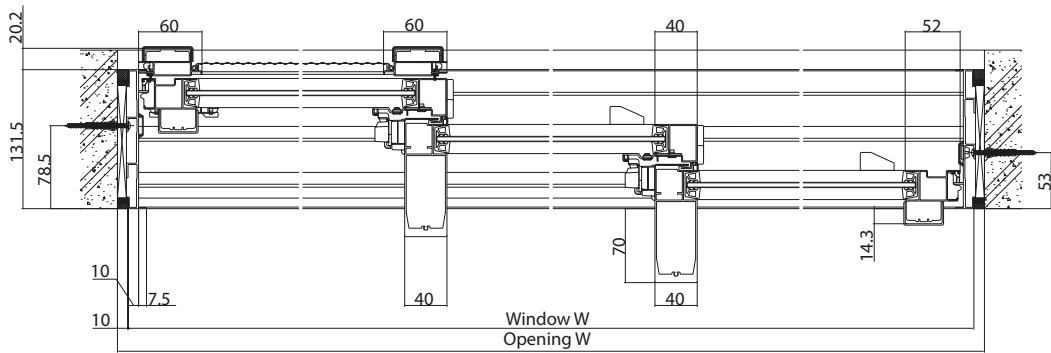
Horizontal section: Sliding (6 panels on 3 tracks) Type C with TR-X screen



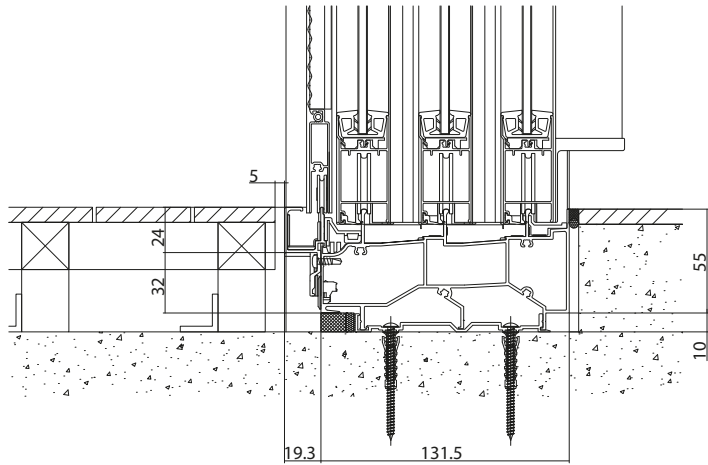
Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type D with TR-X screen



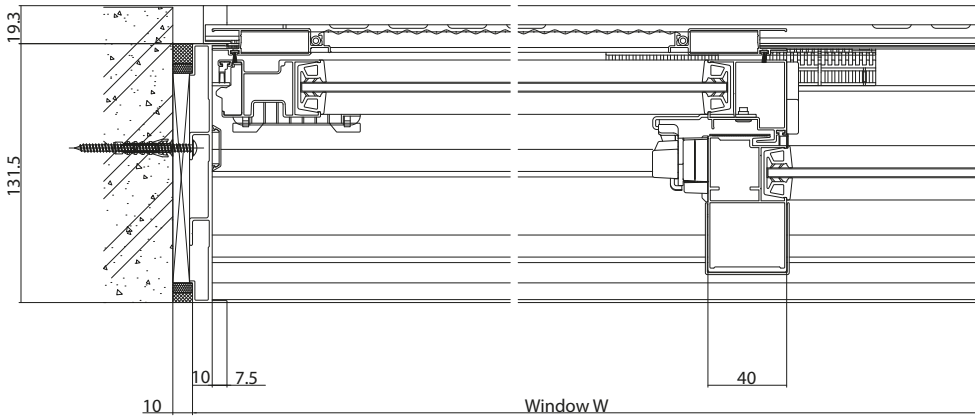
Horizontal section: Sliding (6 panels on 3 tracks) Type D with TR-X screen



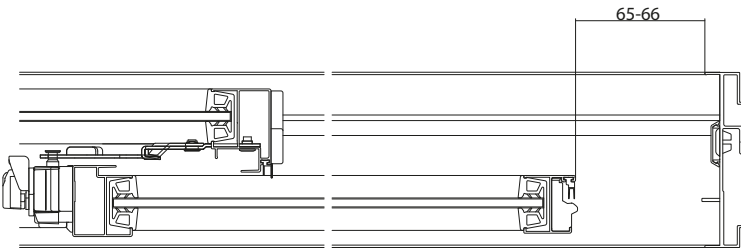
Horizontal section: Sliding (3 panels on 3 tracks) Type D with TR-X screen



Vertical section: Outside screen rail option with TL-X screen



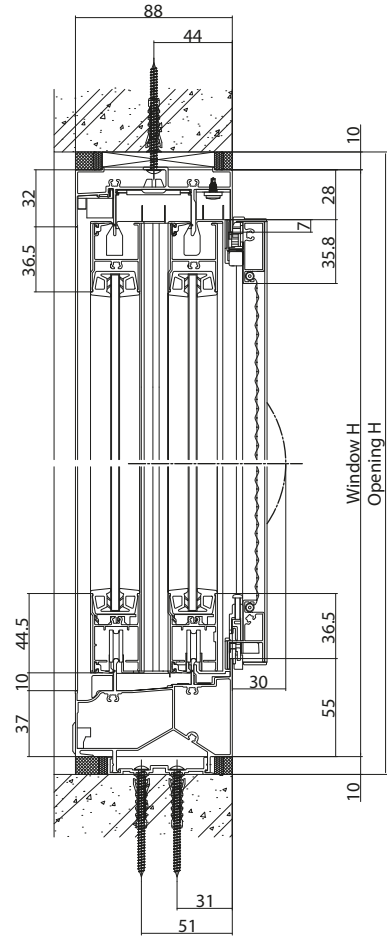
Horizontal section: Outside screen rail option with TL-X screen



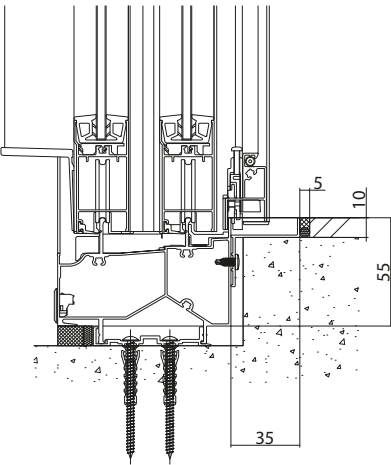
Options (limit arm) Jamb detail

# ATIS

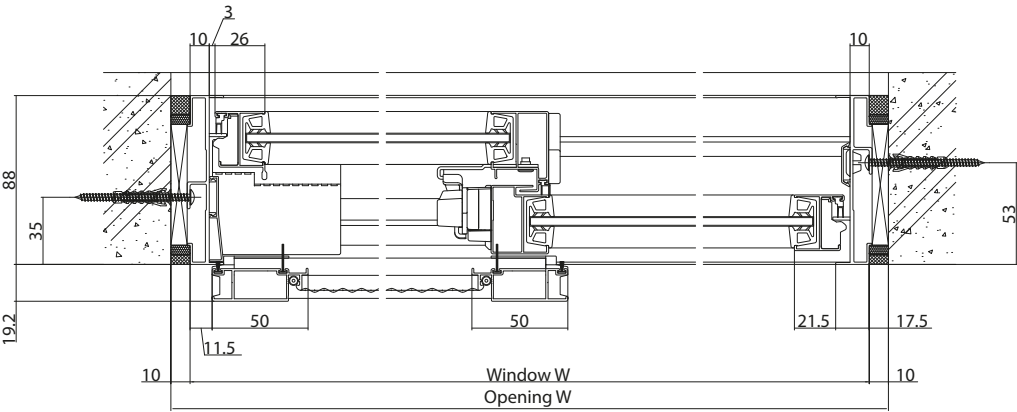
## SLIDING (2P2T, 4P2T) WITH INSIDE INSECT SCREEN



Vertical section: Sliding (2 panels on 2 tracks)  
Type A with TL-N screen

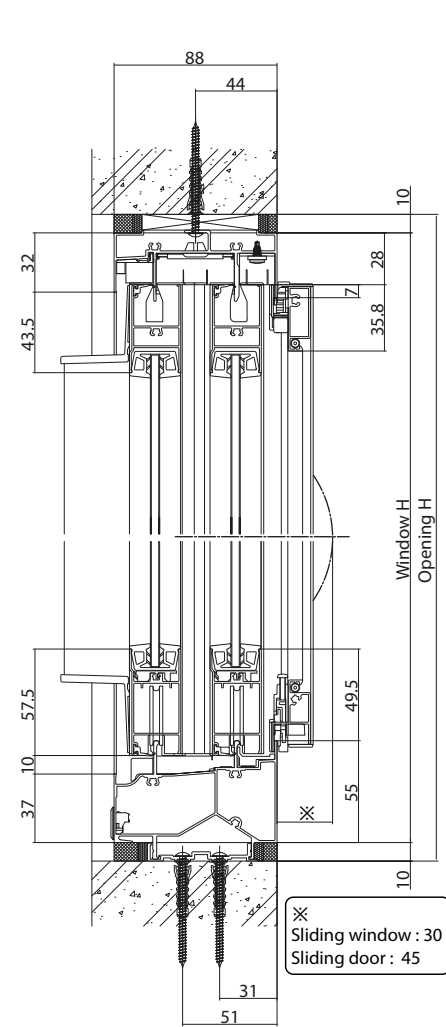


Vertical section: Sliding for floor

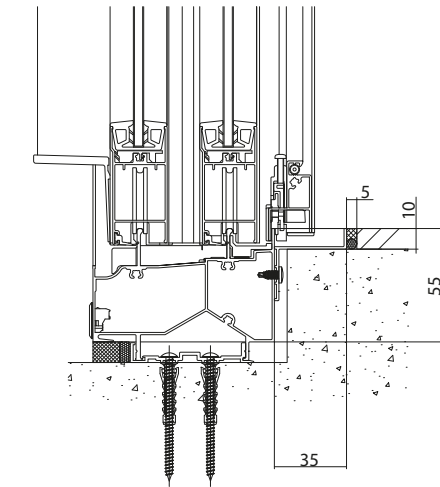


Horizontal section: Sliding (2 panels on 2 tracks) Type A with TL-N screen

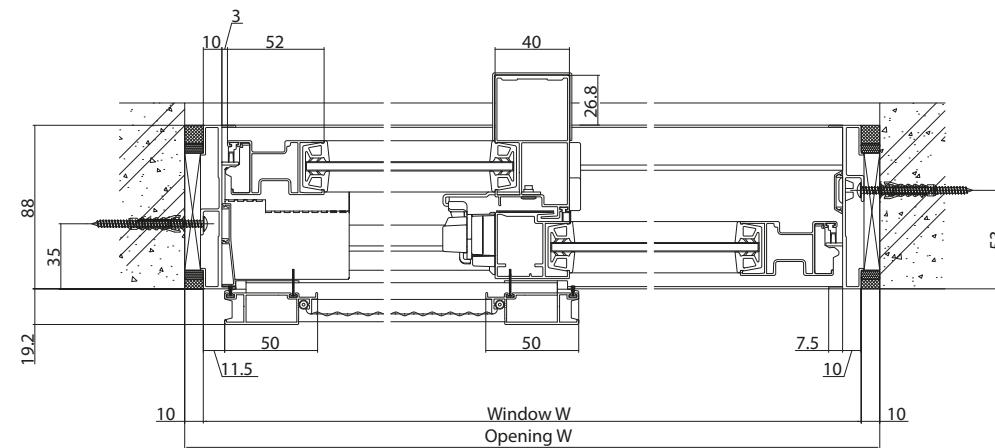




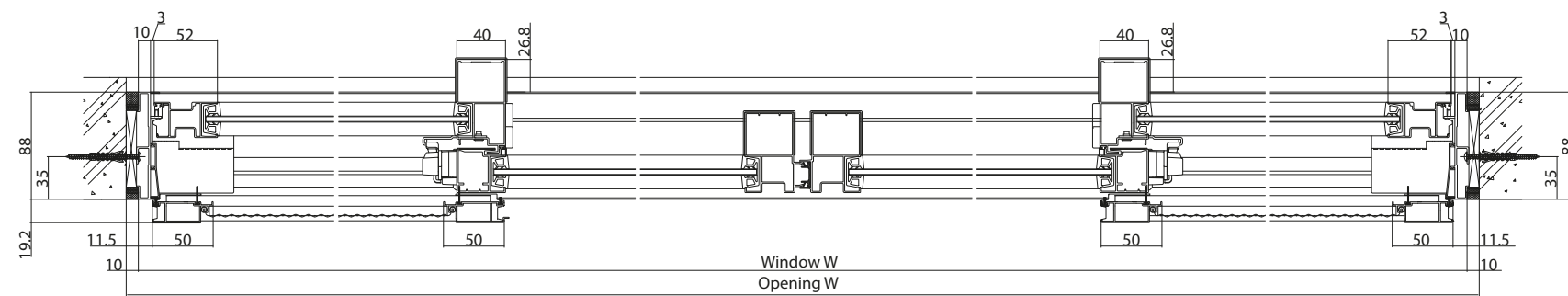
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type B with TL-N screen



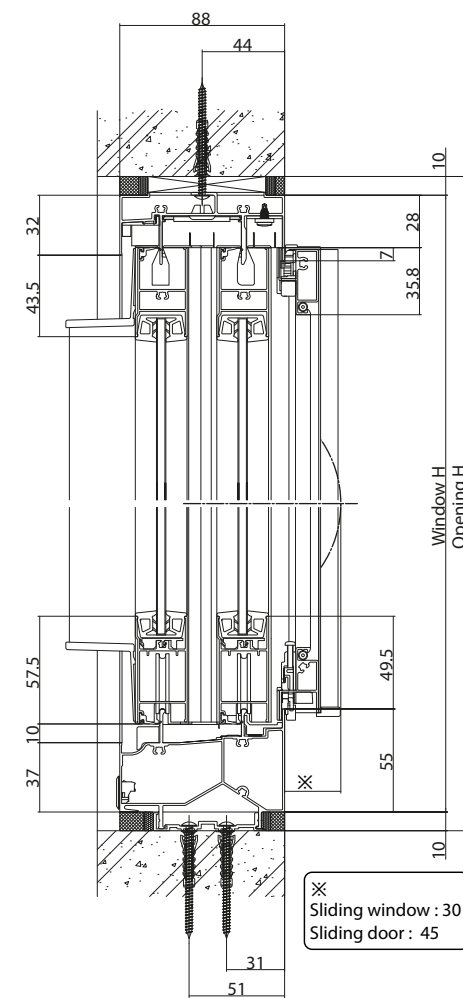
Vertical section: Sliding for floor



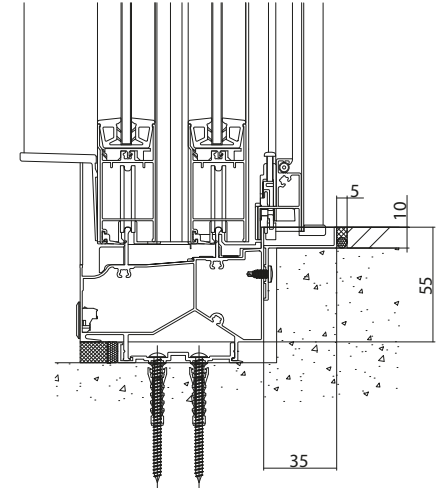
Horizontal section: Sliding (2 panels on 2 tracks) Type B with TL-N screen



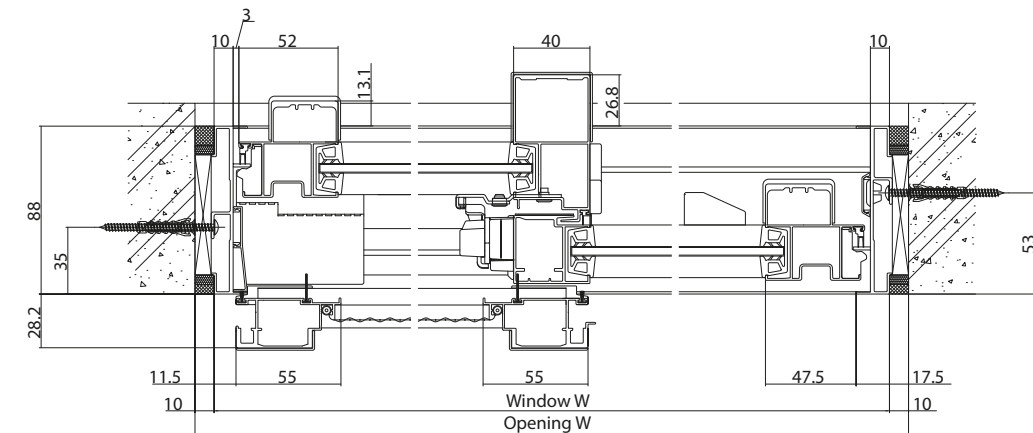
Horizontal section: Sliding (4 panels on 2 tracks) Type B with TL-N screen



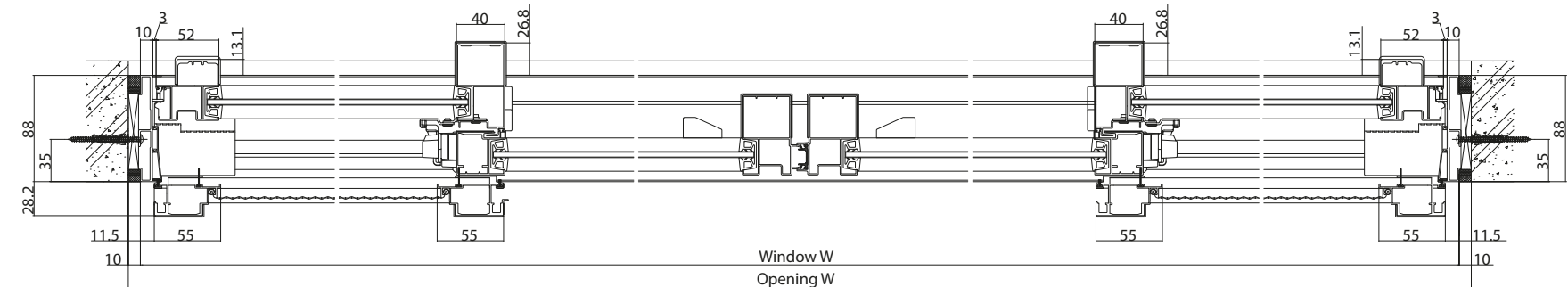
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type C with TR-N screen



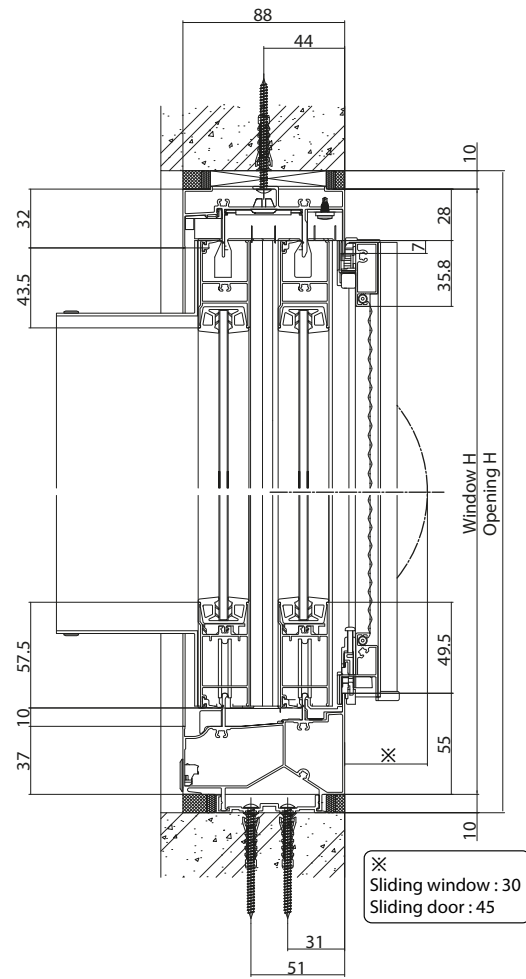
Vertical section: Sliding for floor



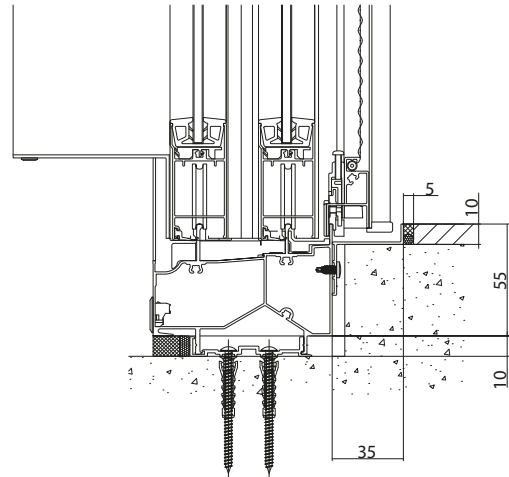
Horizontal section: Sliding (2 panels on 2 tracks) Type C with TR-N screen



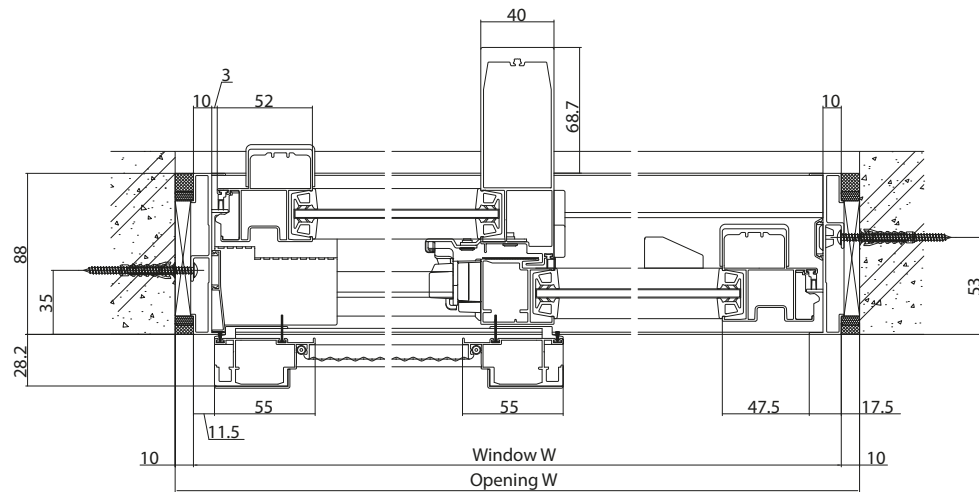
Horizontal section: Sliding (4 panels on 2 tracks) Type C with TR-N screen



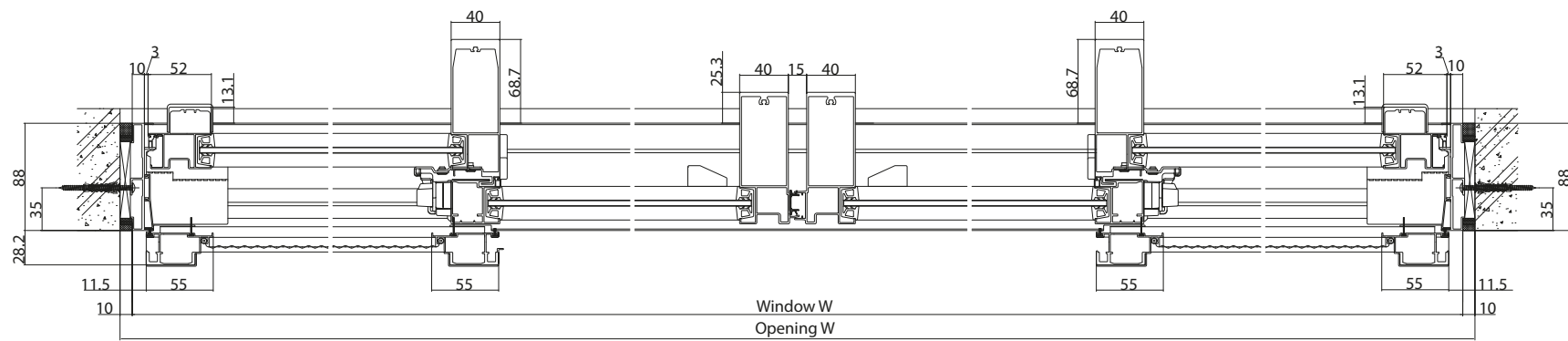
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type D with TR-N screen



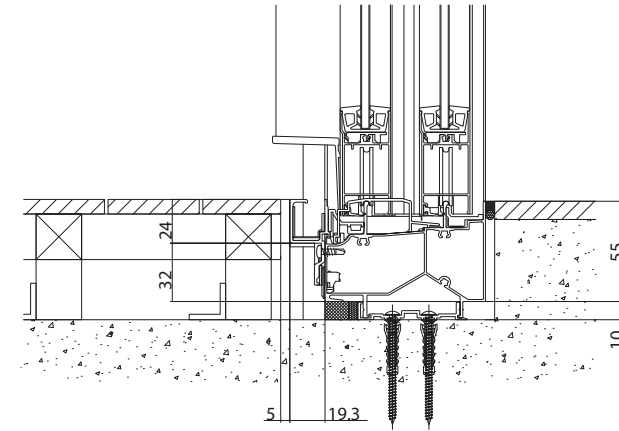
Vertical section: Sliding for floor



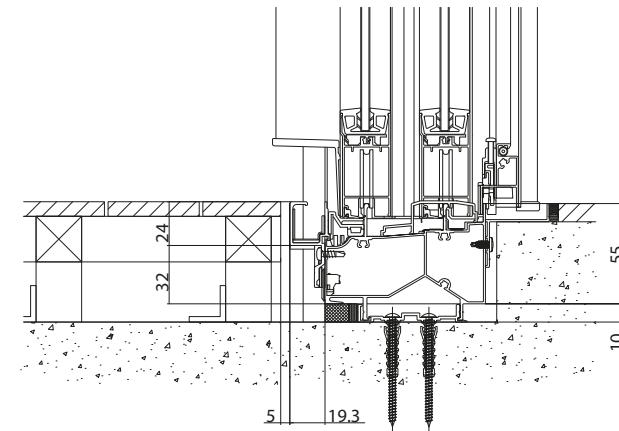
Horizontal section: Sliding (2 panels on 2 tracks) Type D with TR-N screen



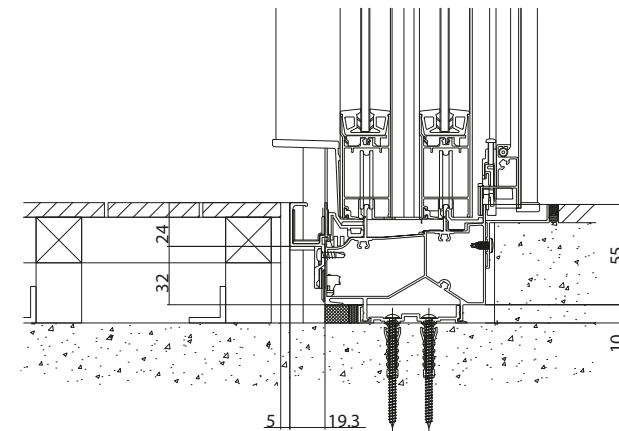
Horizontal section: Sliding (4 panels on 2 tracks) Type D with TR-N screen



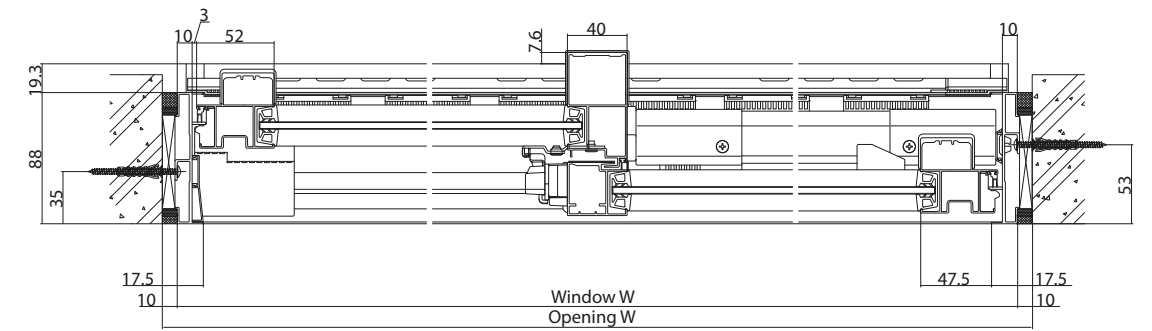
Vertical section: 2 and 4 panels  
Barrier flat sill Outside option



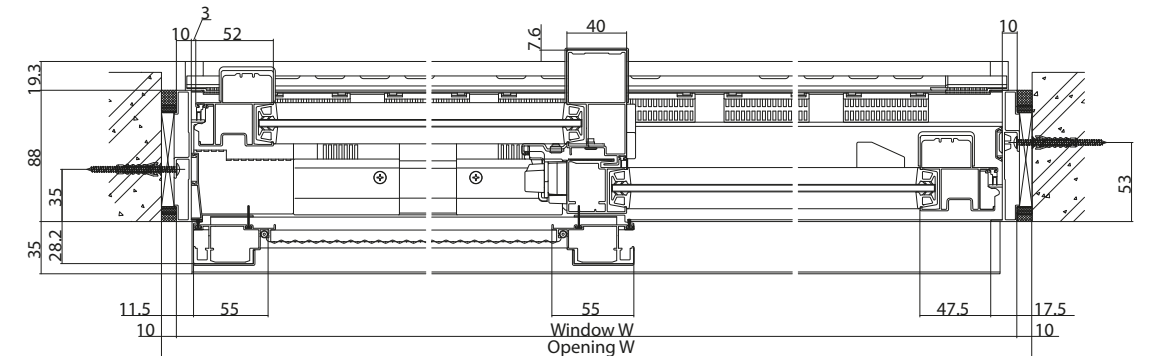
Vertical section: 2 and 4 panels  
Barrier flat sill Inside option with TR-N screen



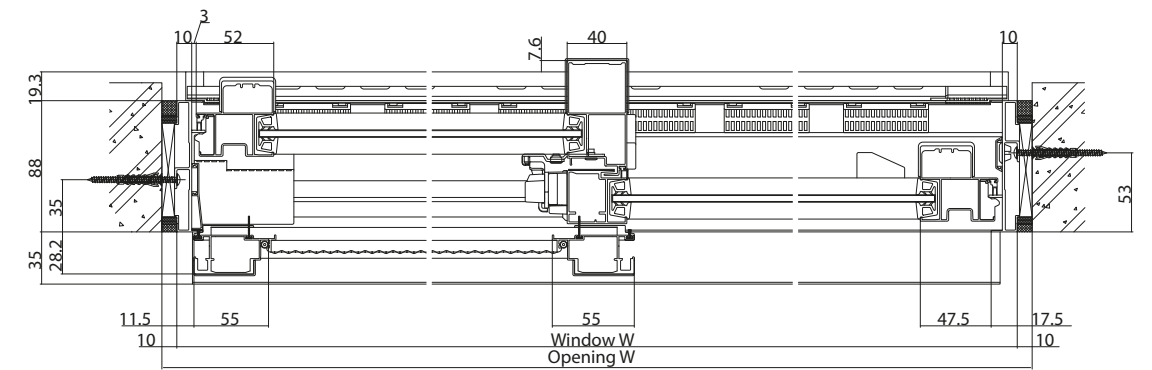
Vertical section: 2 and 4 panels  
Outside screen rail option with TR-N screen



Horizontal section: 2 panels Barrier flat sill Outside option

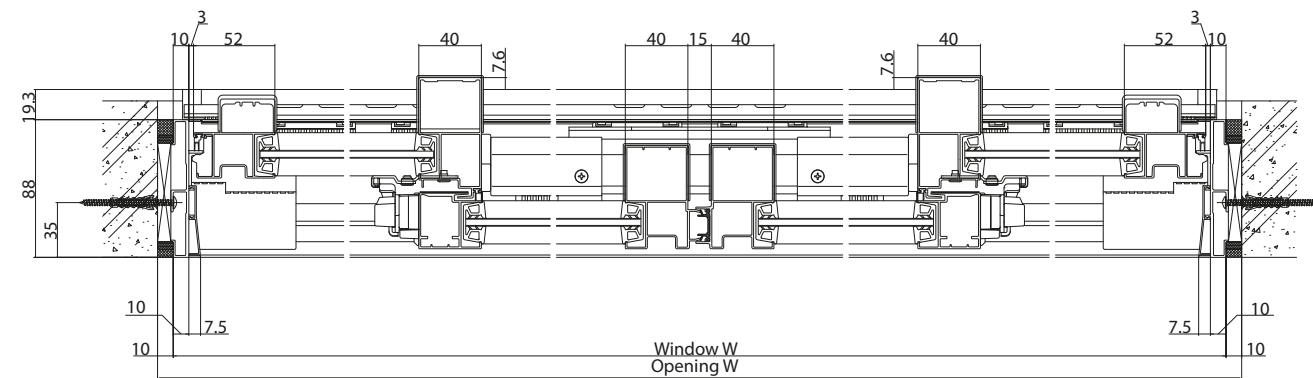


Horizontal section: 2 panels Barrier flat sill Inside option with TR-N screen

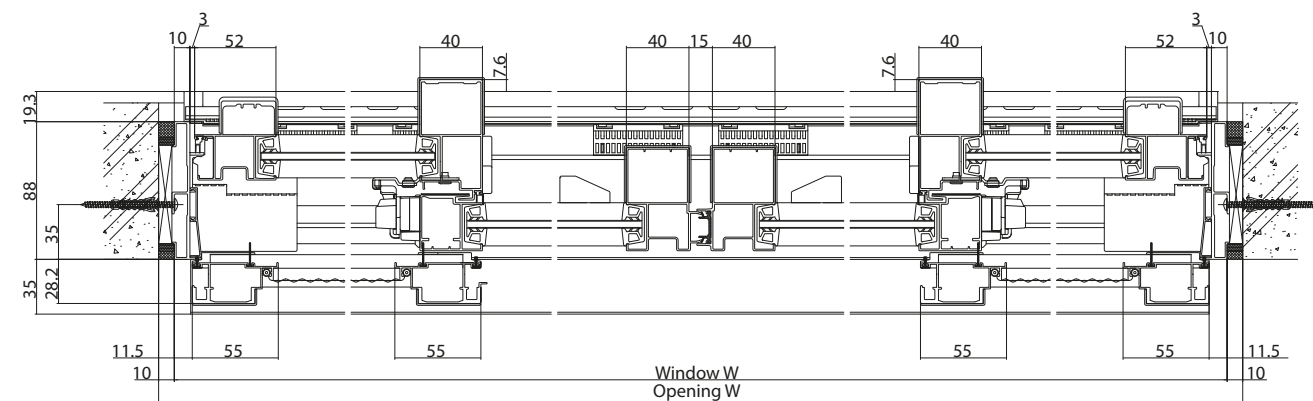


Horizontal section: 2 panels Outside screen rail option with TR-N screen





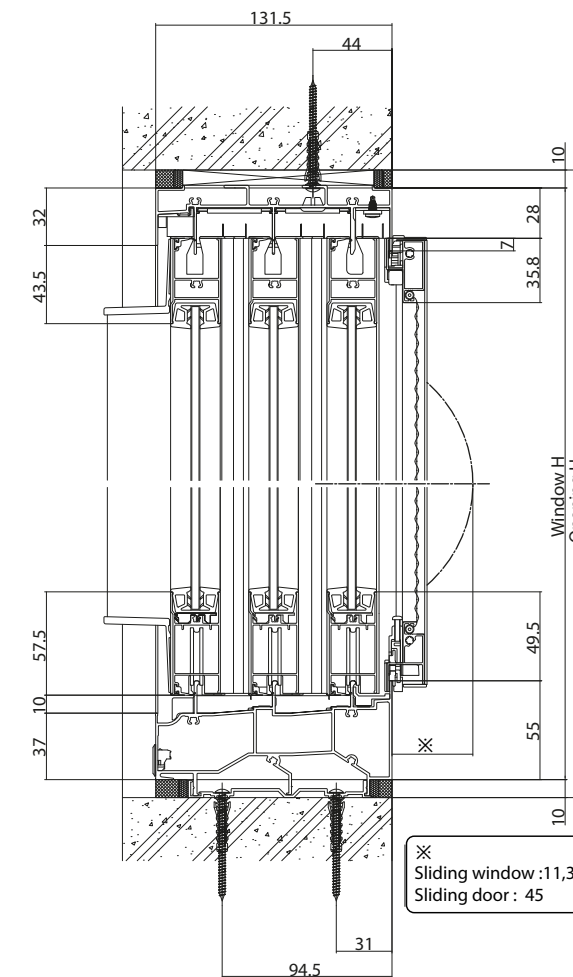
Horizontal section: 4 panels Barrier flat sill Outside option



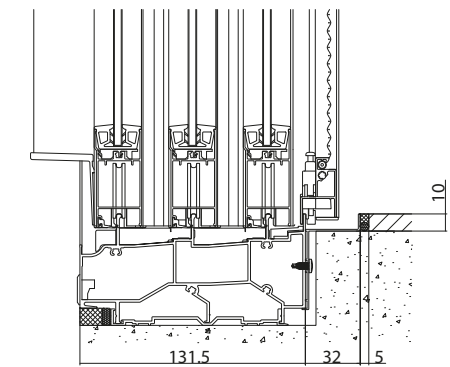
Horizontal section: 4 panels Outside screen rail option with TR-N screen

# ATIS

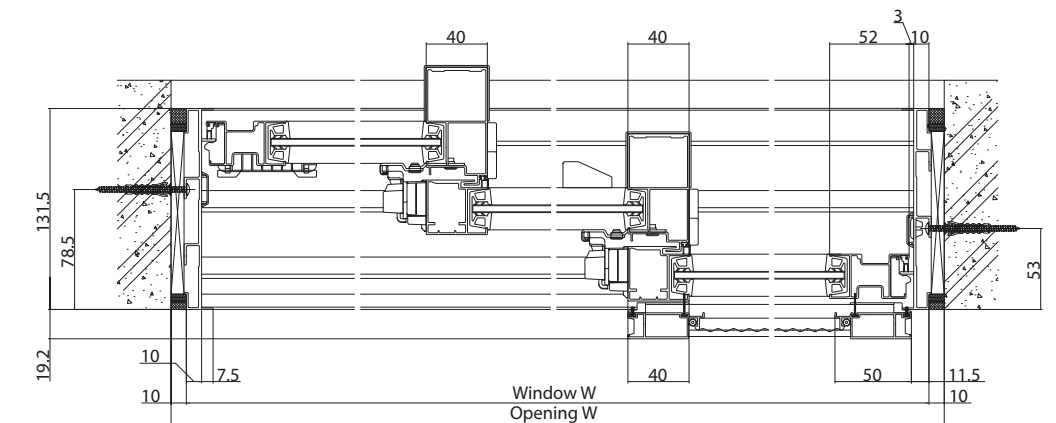
## SLIDING (3P3T, 6P3T) WITH INSIDE INSECT SCREEN



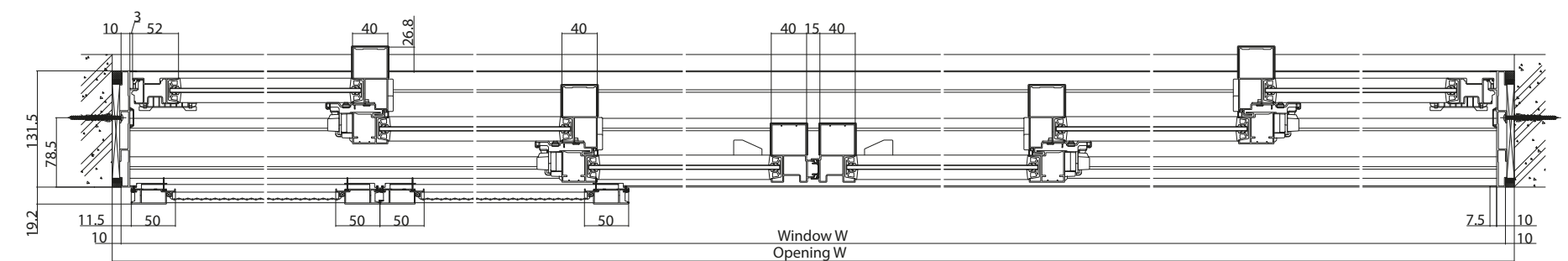
Vertical section: Sliding (3 and 6 panels on 3 tracks)  
Type B with TL-N screen



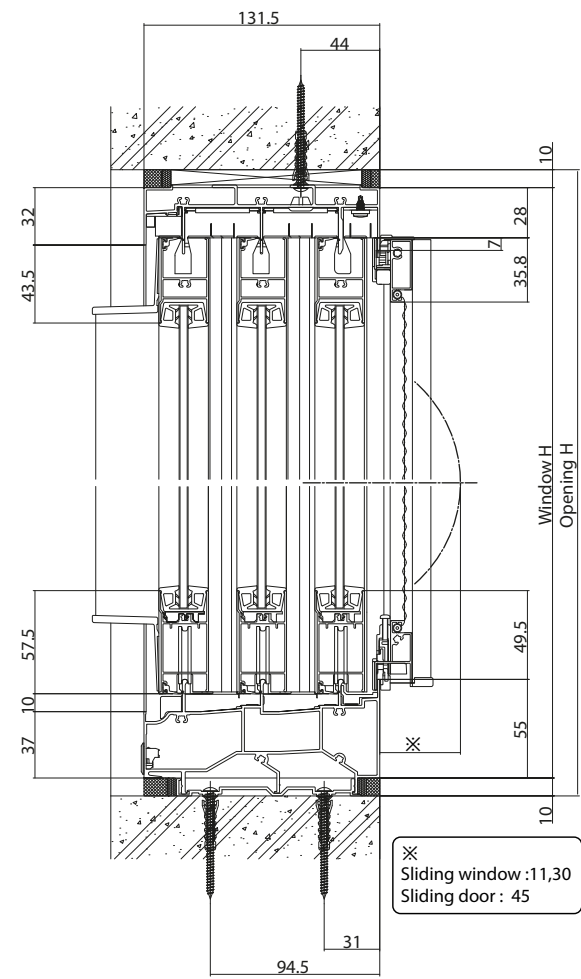
Vertical section: Sliding for floor



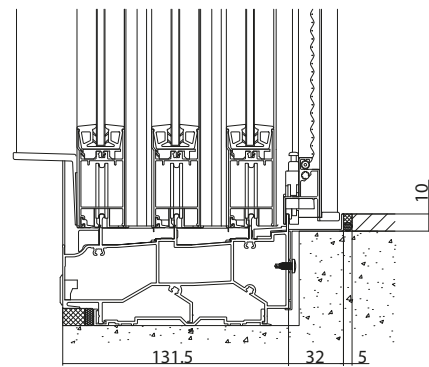
Horizontal section: Sliding (3 panels on 3 tracks) Type B with TL-N screen



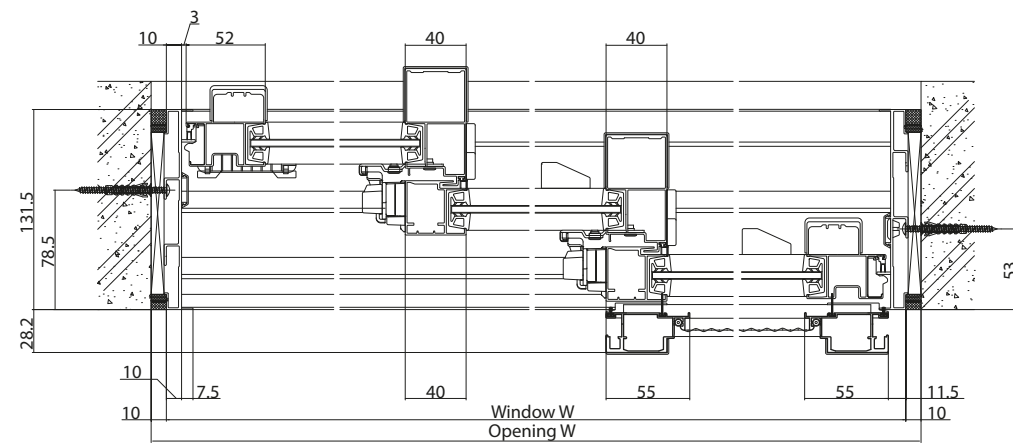
Horizontal section: Sliding (6 panels on 3 tracks) Type B with TL-N screen



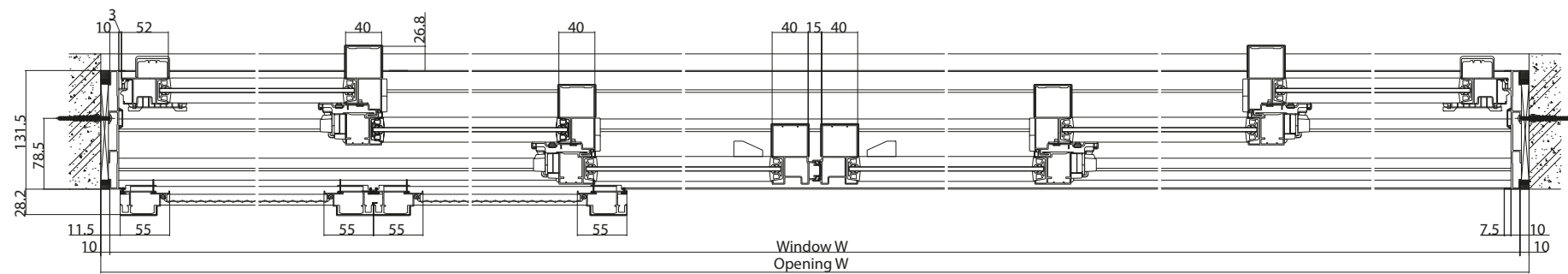
Vertical section: Sliding (3 and 6 panels on 3 tracks)  
Type C with TR-N screen



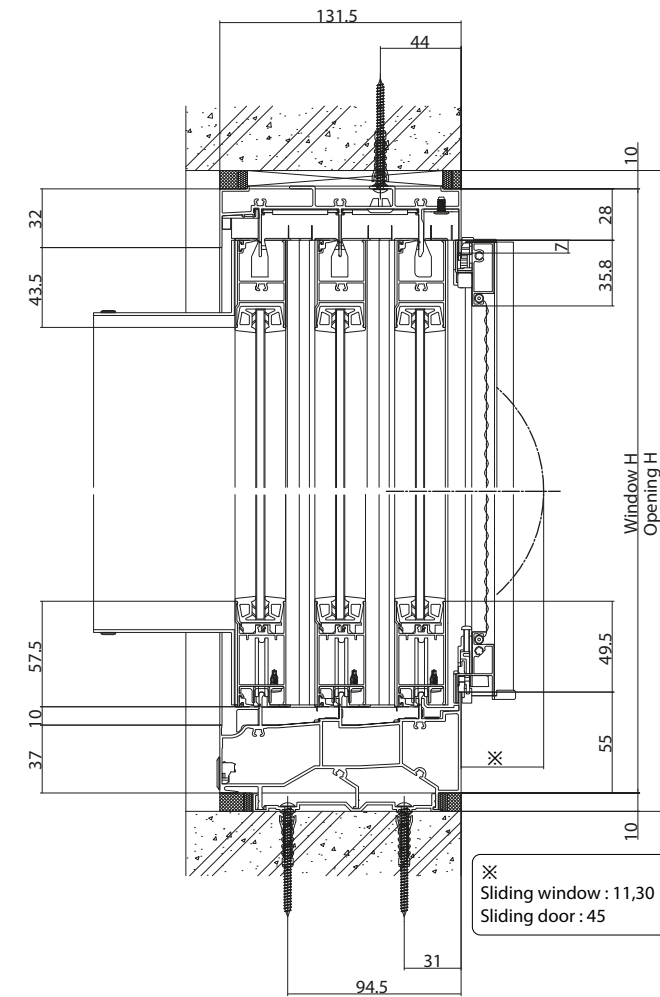
Vertical section: Sliding for floor



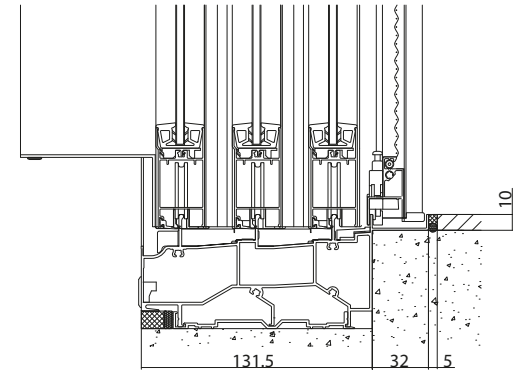
Horizontal section: Sliding (3 panels on 3 tracks) Type C with TR-N screen



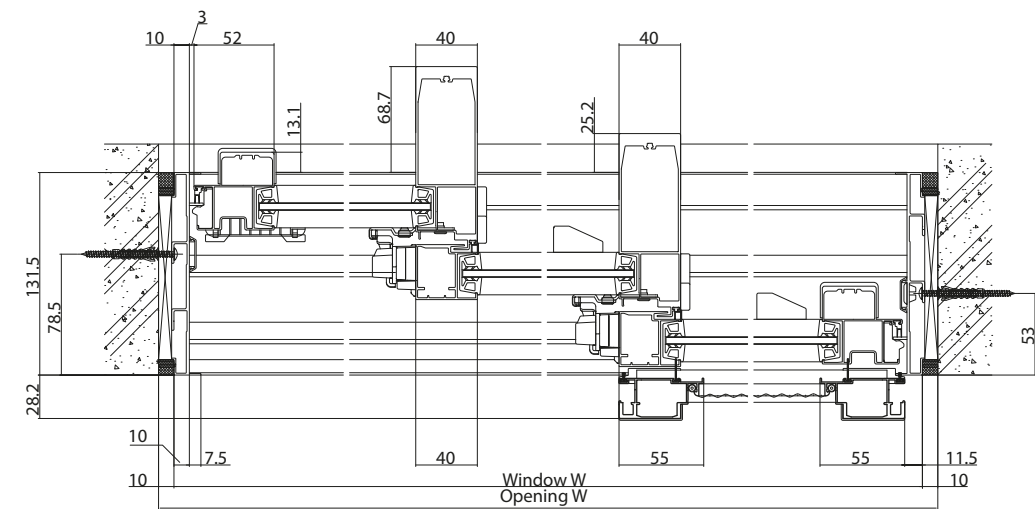
Horizontal section: Sliding (6 panels on 3 tracks) Type C with TR-N screen



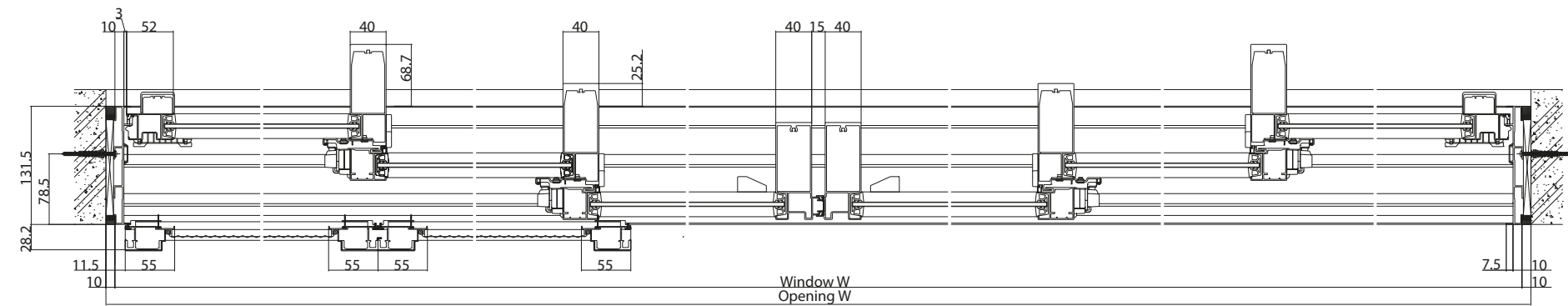
Vertical section: Sliding (3 and 6 panels on 3 tracks)  
Type D with TR-N screen



Vertical section: Sliding for floor

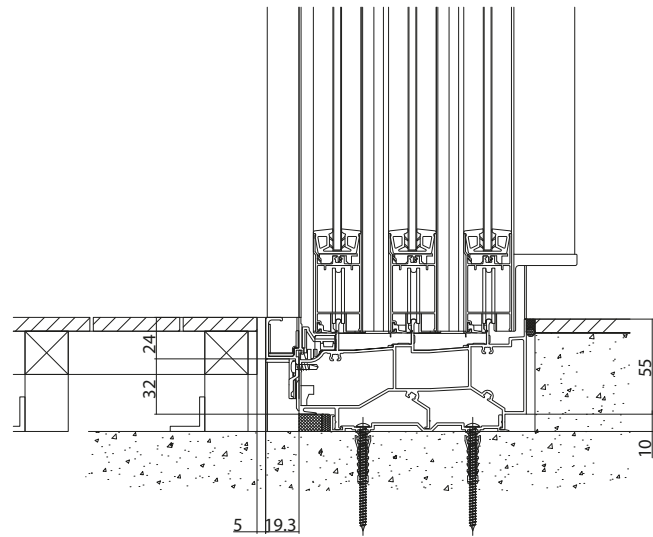


Horizontal section: Sliding (3 panels on 3 tracks) Type D with TR-N screen

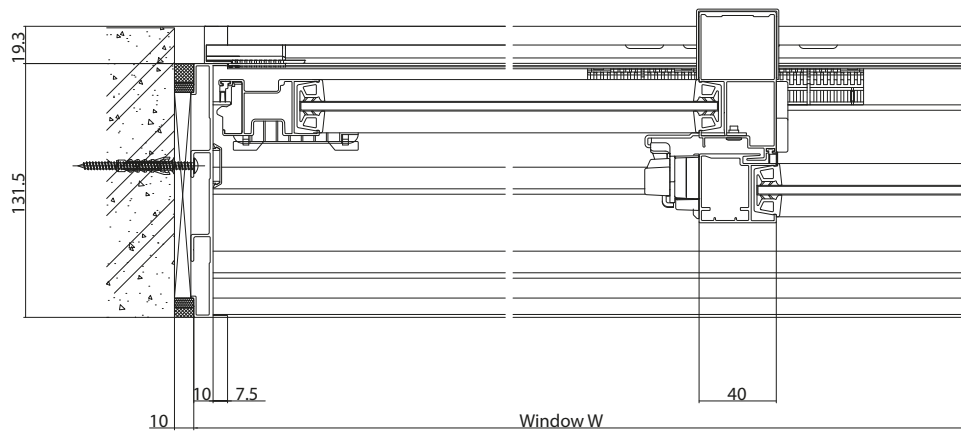


Horizontal section: Sliding (6 panels on 3 tracks) Type D with TR-N screen

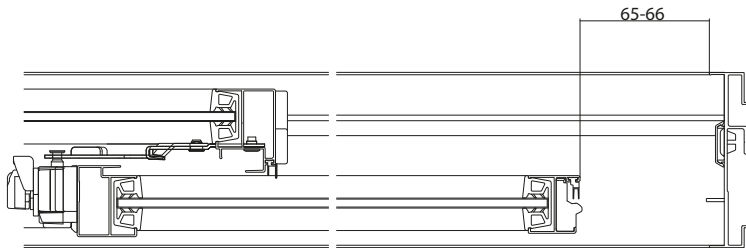




Vertical section: Outside rail option



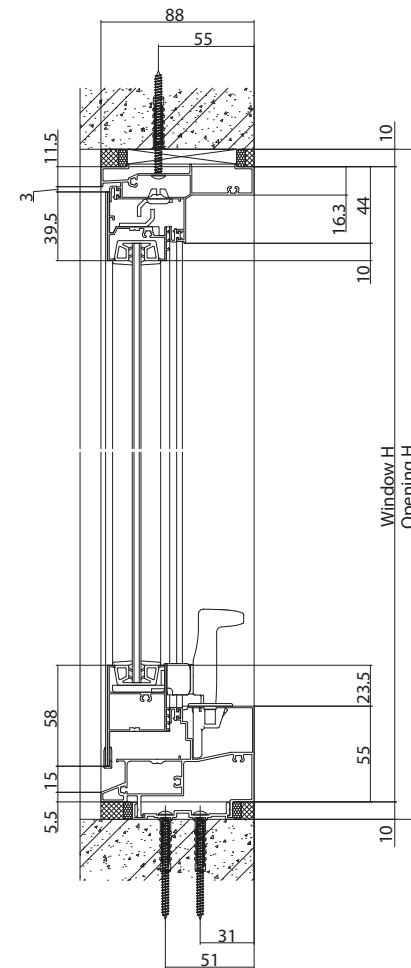
Horizontal section: Outside rail option



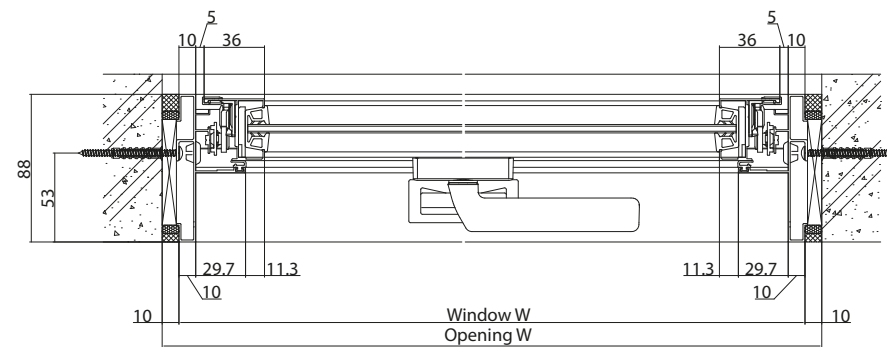
Options (limit arm) Jamb detail

# ATIS

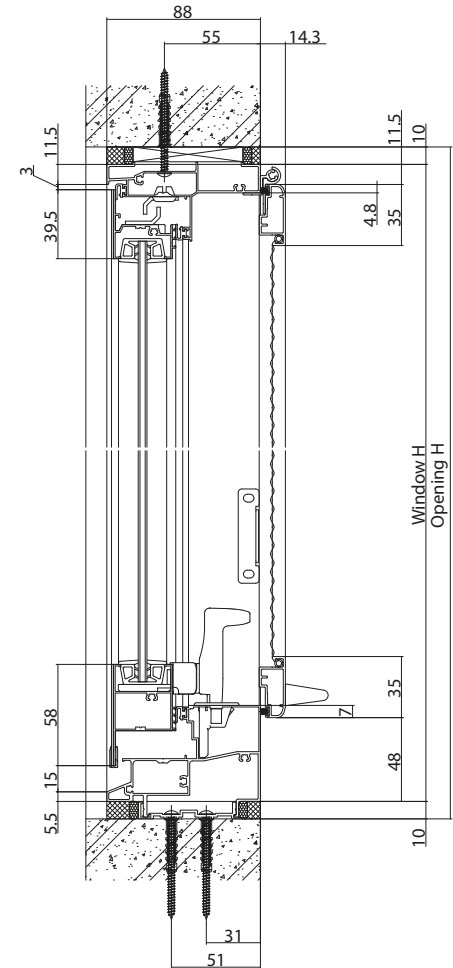
## AWNING WINDOW



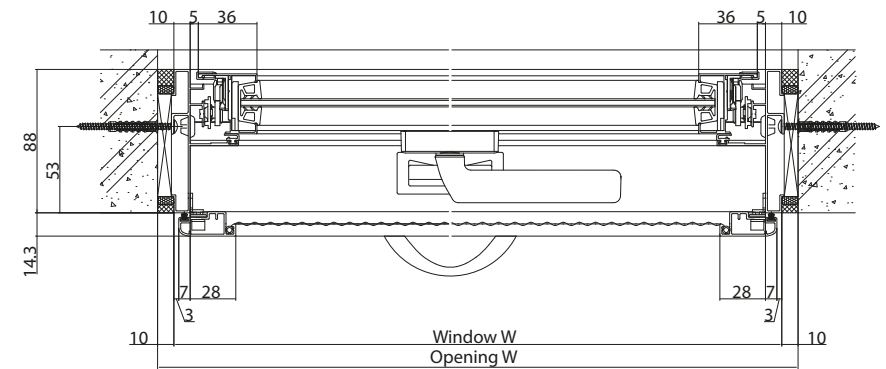
Vertical section: Awning window (Single lock)



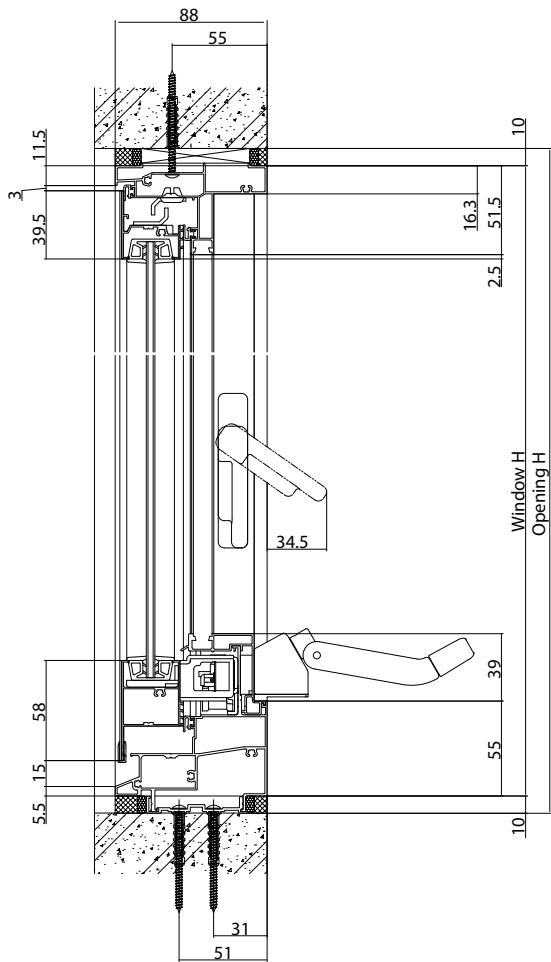
Horizontal section: Awning window (Single lock)



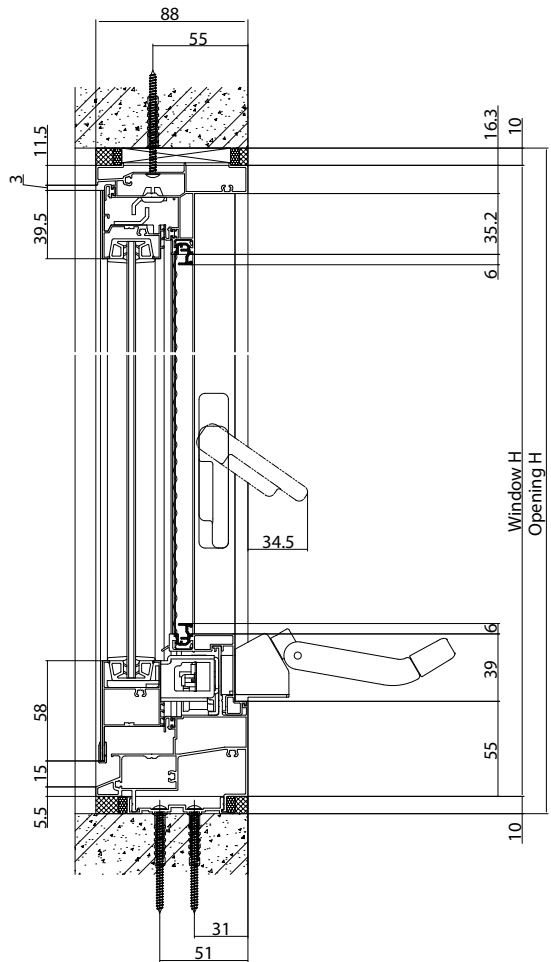
Vertical section: Awning window with screen



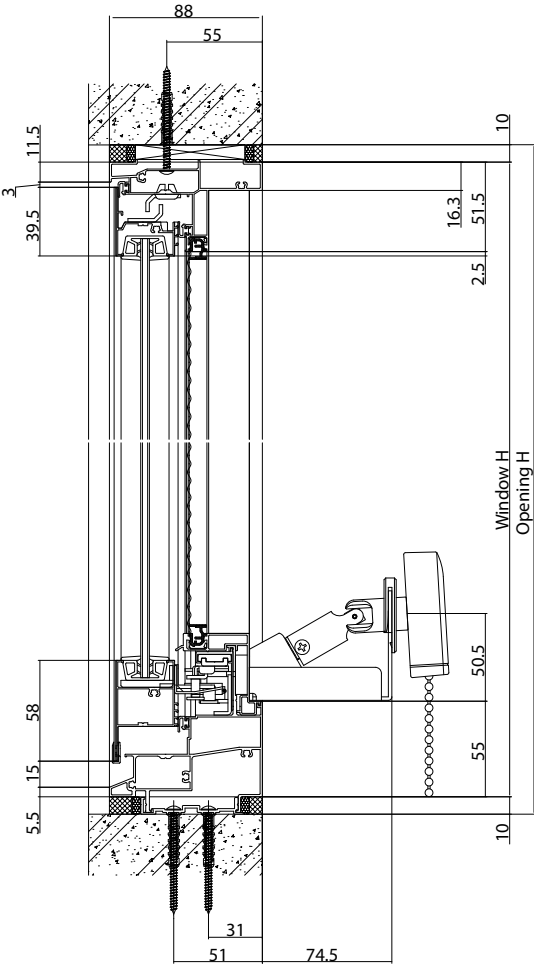
Horizontal section: Awning window with screen



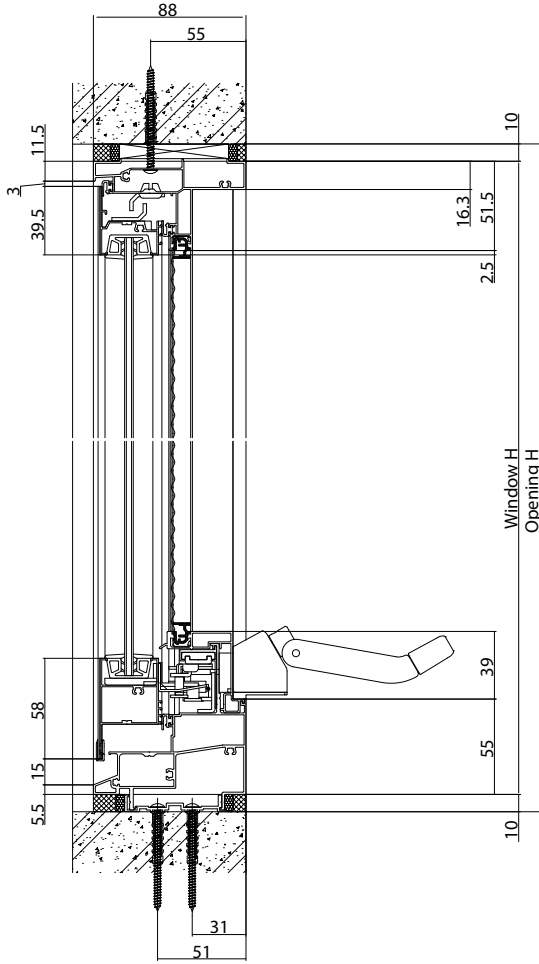
Vertical section: Awning operator window



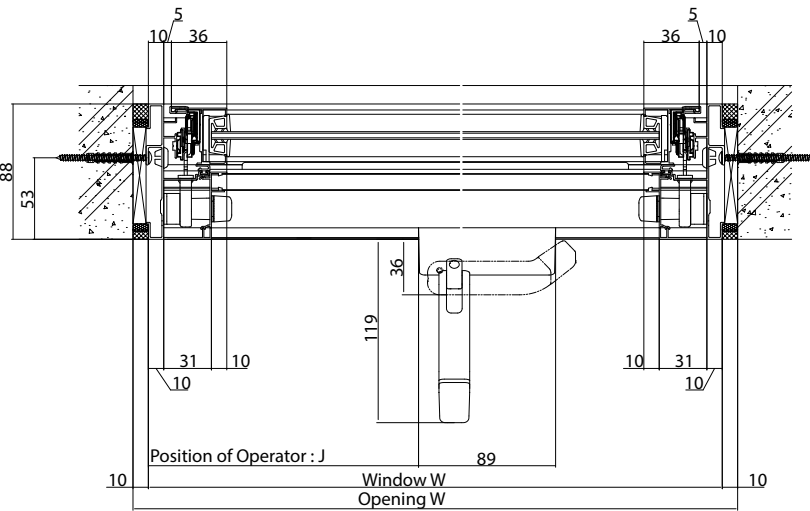
Vertical section: Awning window operator with screen



Vertical section: Awning Slit window (chain set)



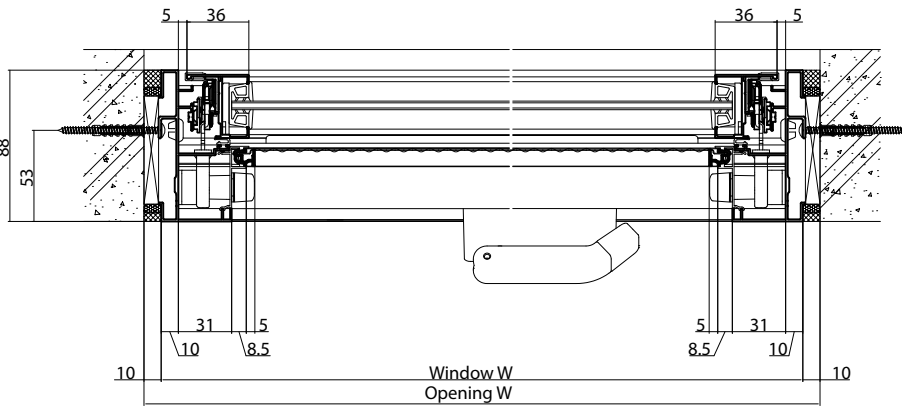
Vertical section: Awning Slit window (operator set)



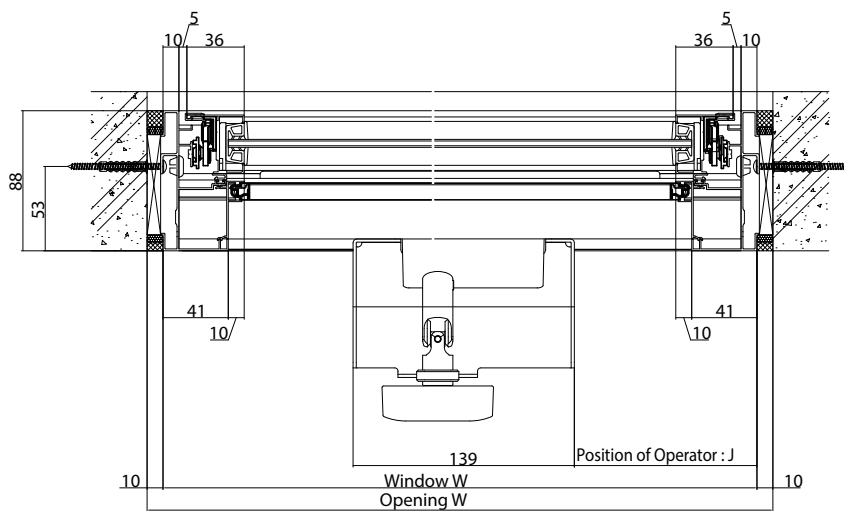
In case of Position of Operator : J

J
W/2-2

Horizontal section: Awning operator window



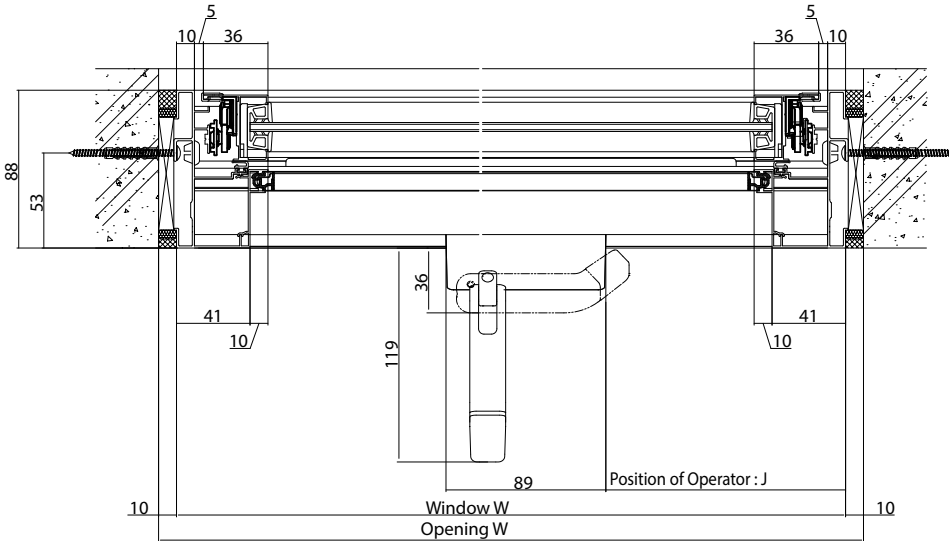
Horizontal section: Awning window operator with screen



In case of R type Position of Operator : J

J
45.5

Horizontal section: Awning Slit window (chain set)



In case of R type Position of Operator : J

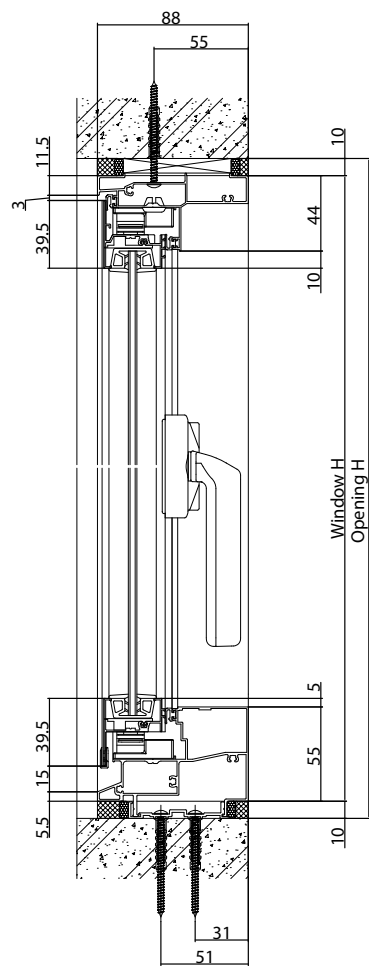
J
65.5

Horizontal section: Awning Slit window (operator set)

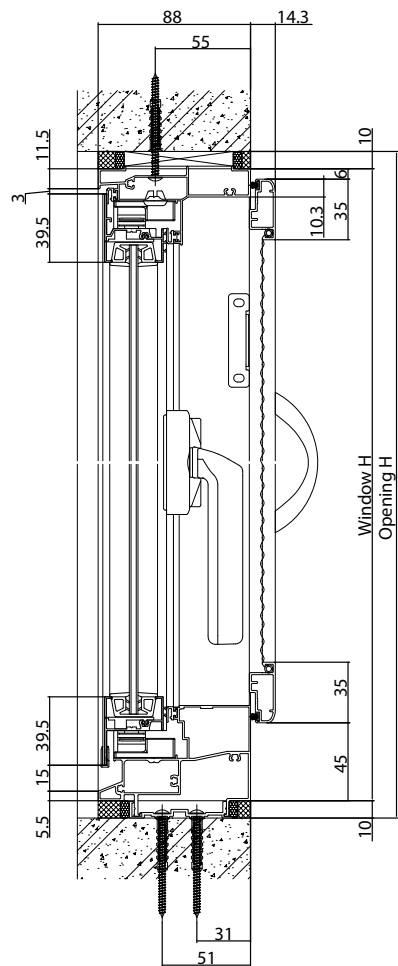


# ATIS

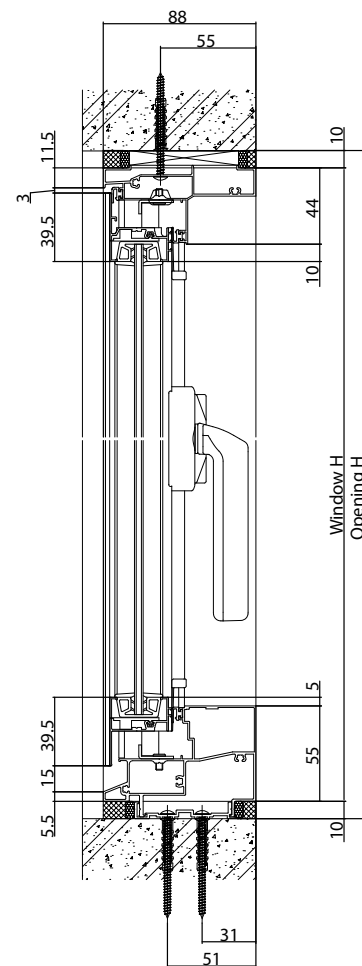
## CASEMENT WINDOW



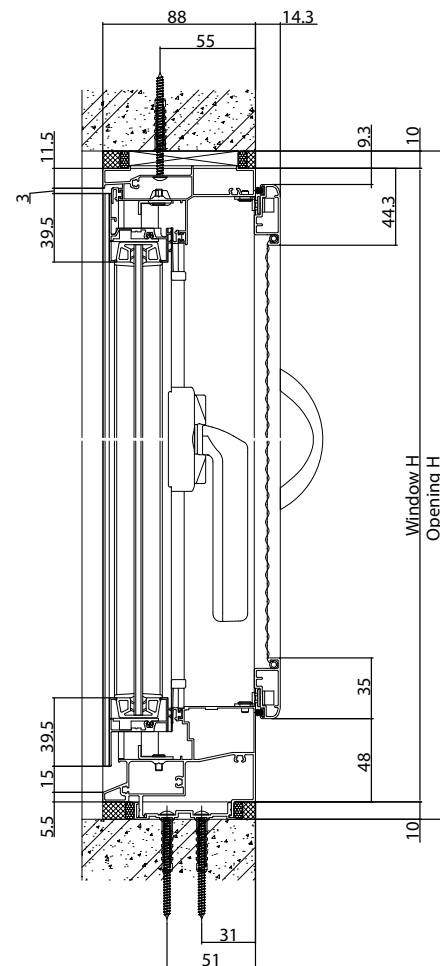
Vertical section: Casement window (Single lock)



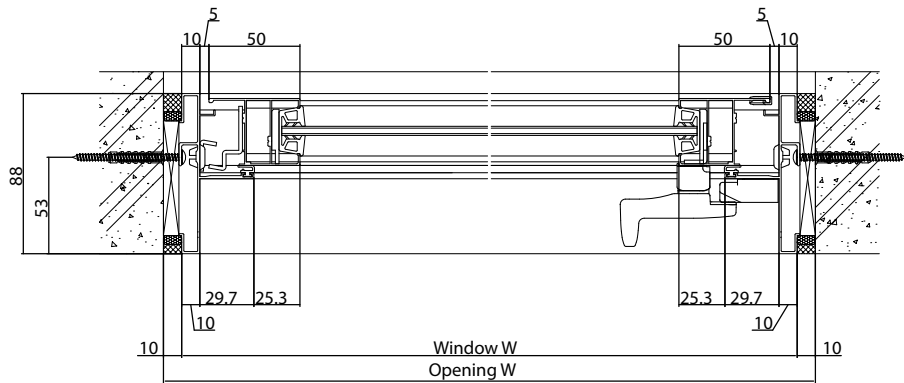
Vertical section: Casement window with screen



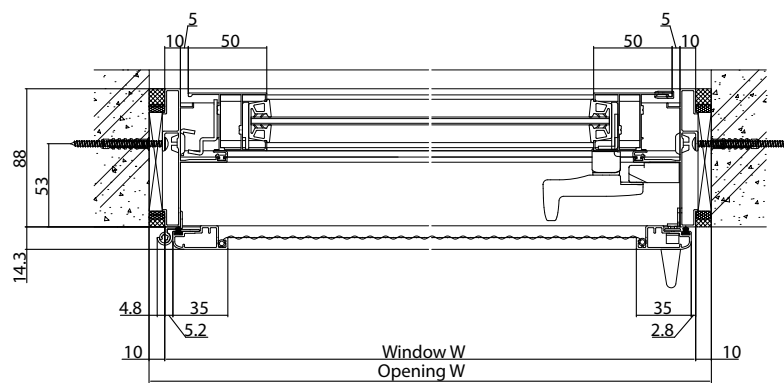
Vertical section: Double Casement window



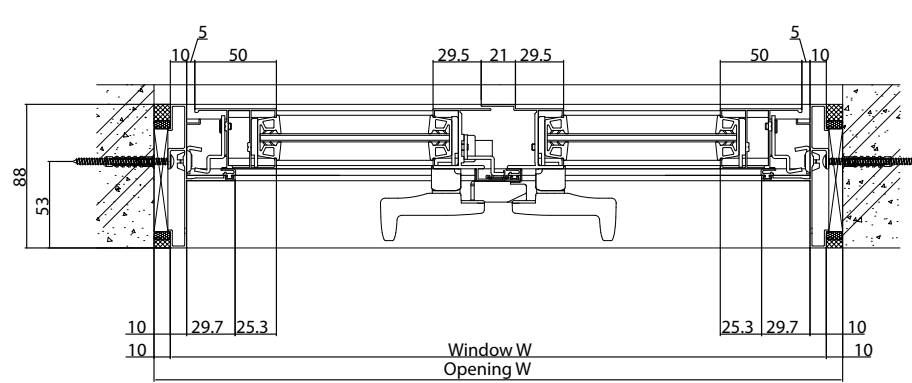
Vertical section: Double Casement window with screen



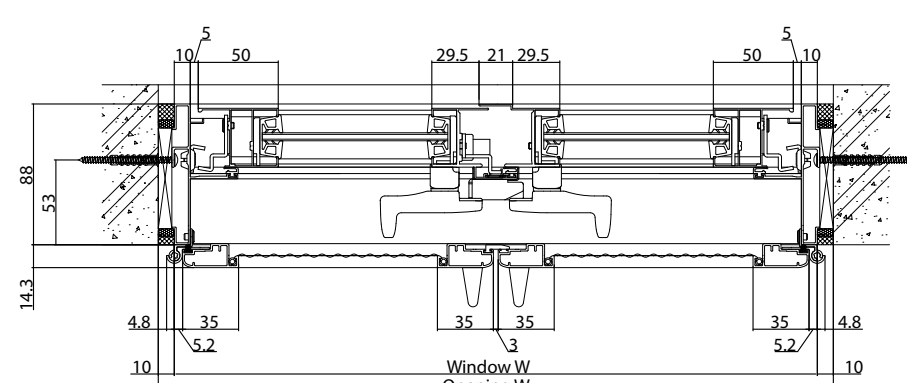
Horizontal section: Casement window (Single lock)



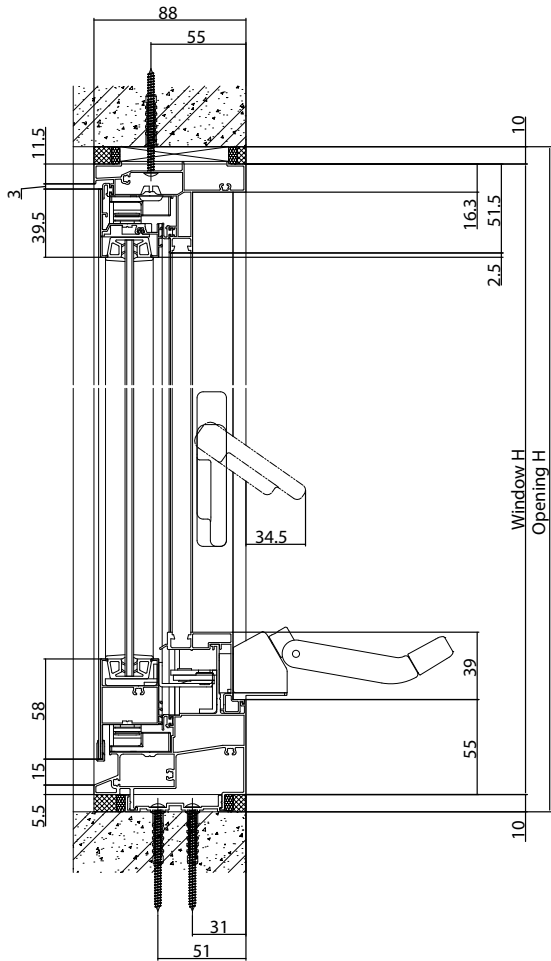
Horizontal section: Casement window with screen



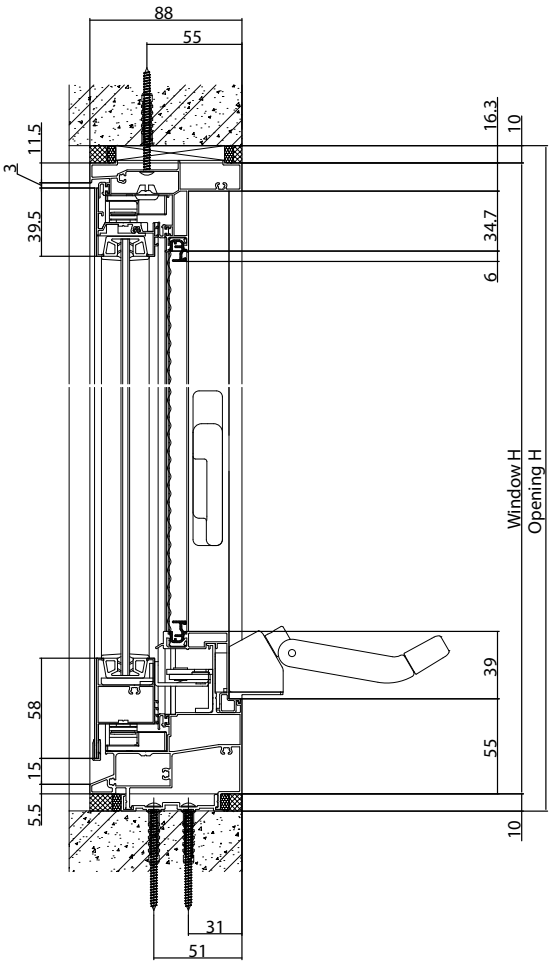
Horizontal section: Double Casement window



Horizontal section: Double Casement window with screen



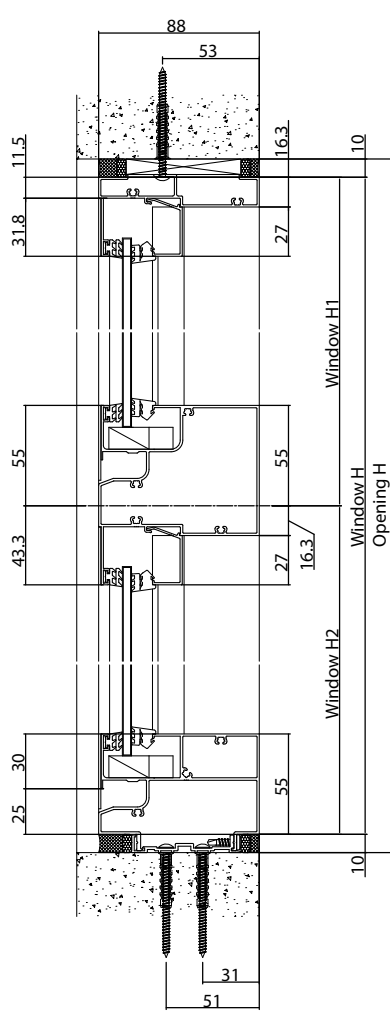
Vertical section: Casement operator window



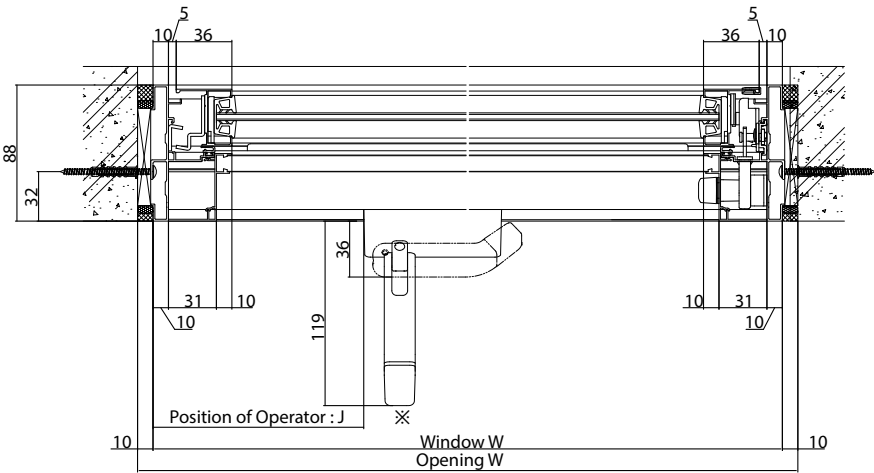
Vertical section: Casement operator window with screen



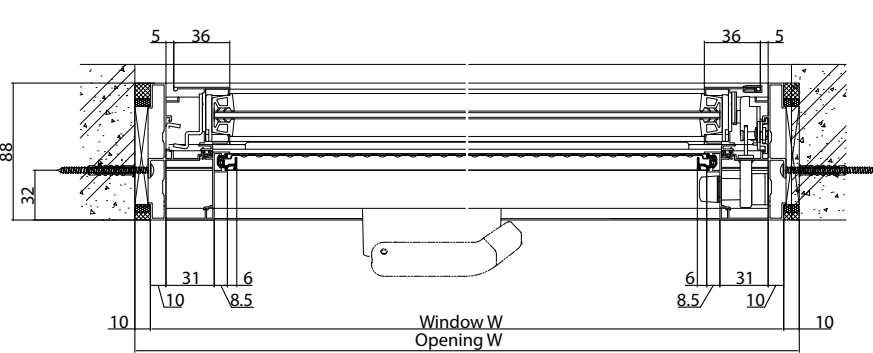
Vertical section: Single fixed window



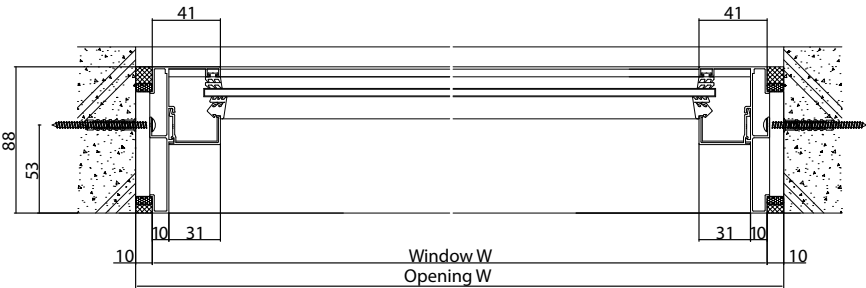
Vertical section: Fixed window with transom



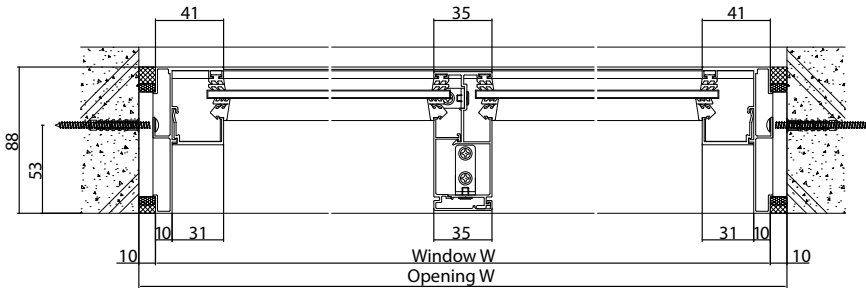
Horizontal section: Casement operator window



Horizontal section: Casement operator window with screen



Horizontal section: Single fixed window



Horizontal section: Fixed window with mullion

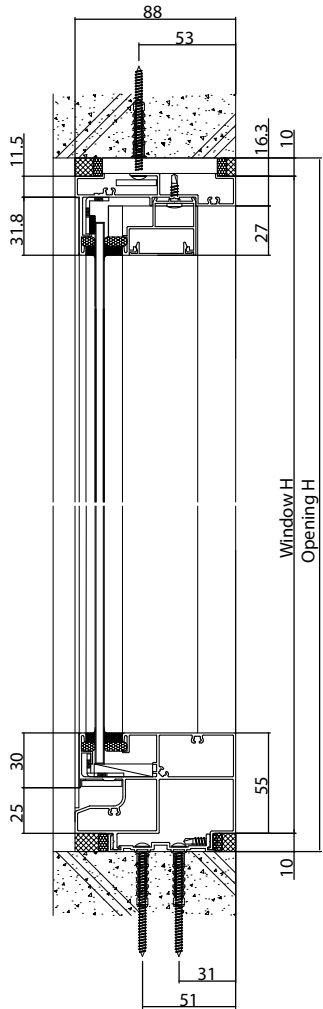
※ In case of R type Position of Operator : J

W	J
W < 418	113
418 ≤ W	179

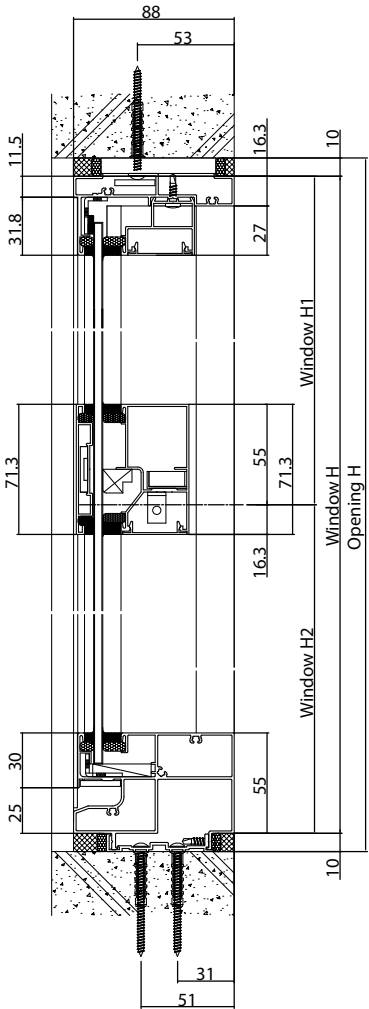
# ATIS

## FIXED WINDOW

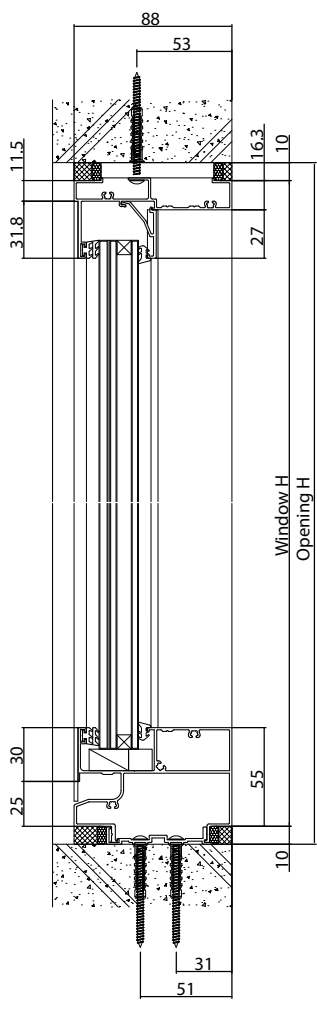




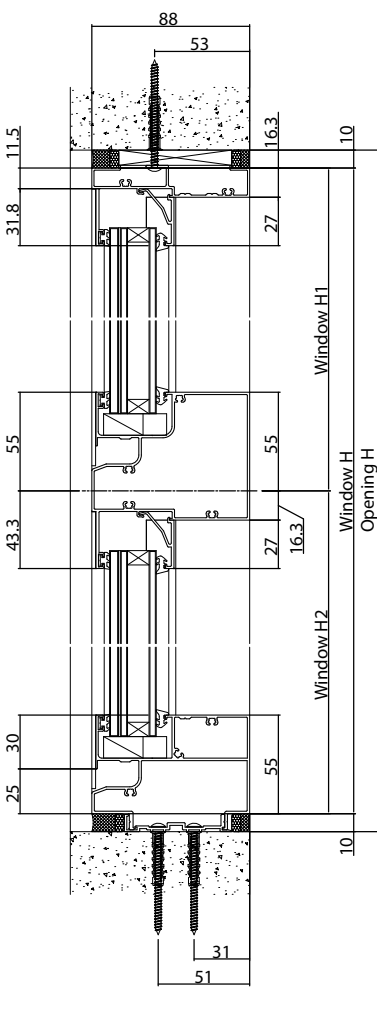
Vertical section: Corner fixed window



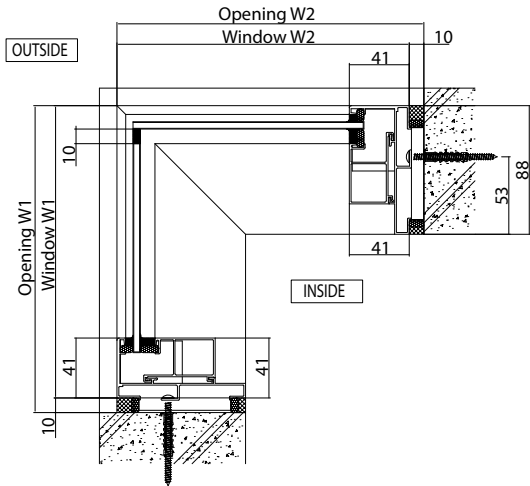
Vertical section: Corner fixed window with transom



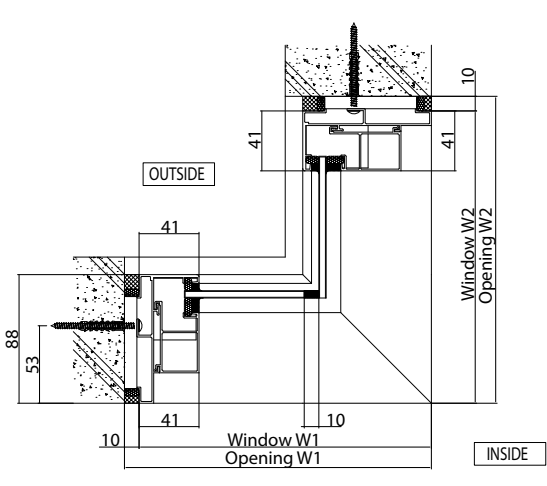
Vertical section: Single fixed window (IG unit)



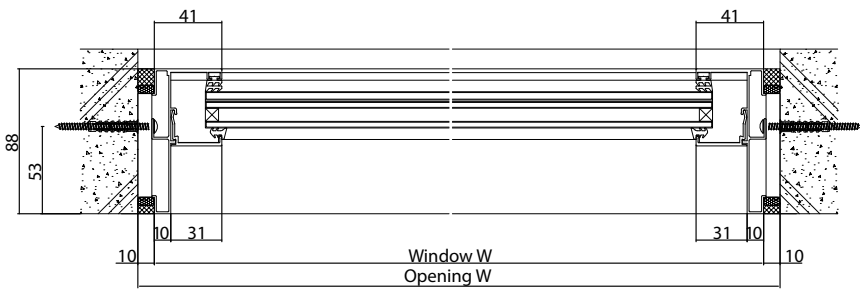
Vertical section: Fixed window with transom (IG unit)



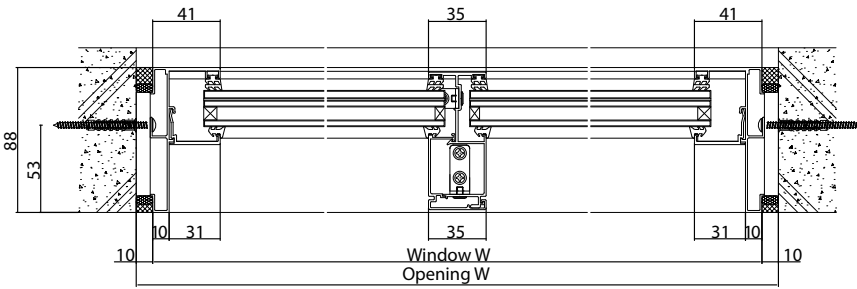
Horizontal section: Outward fixed



Horizontal section: Inward fixed



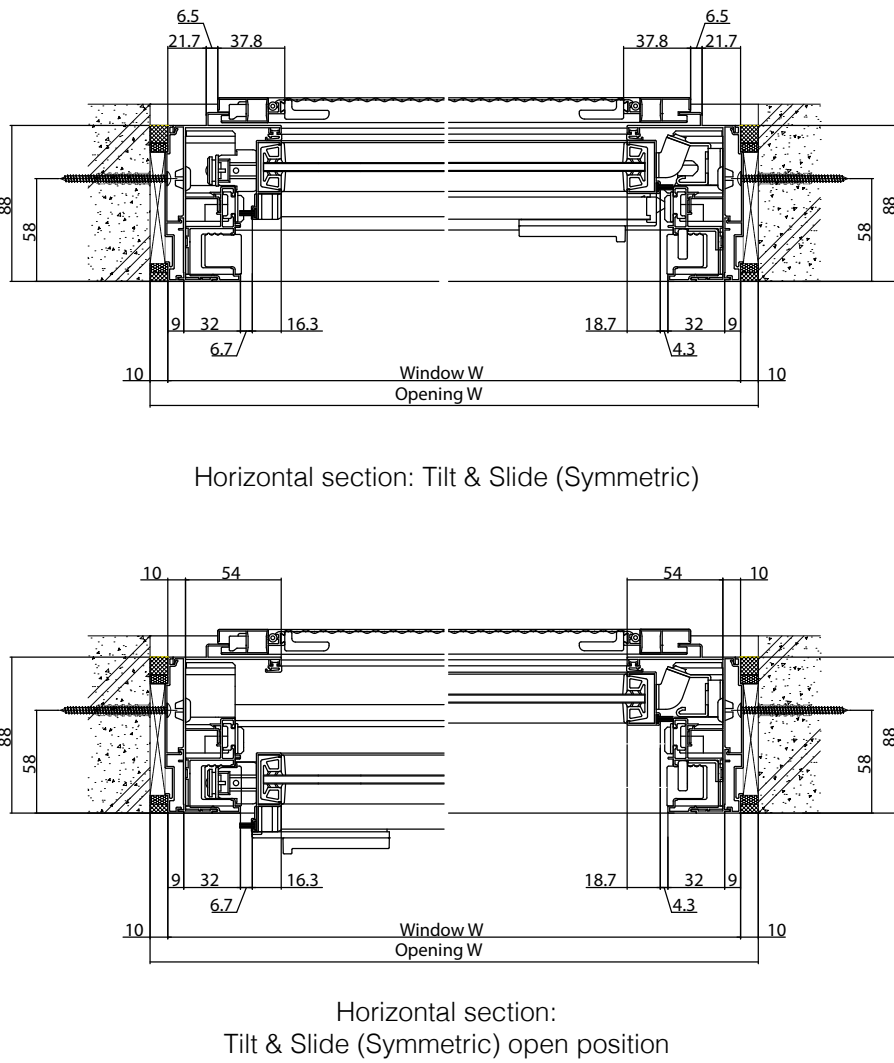
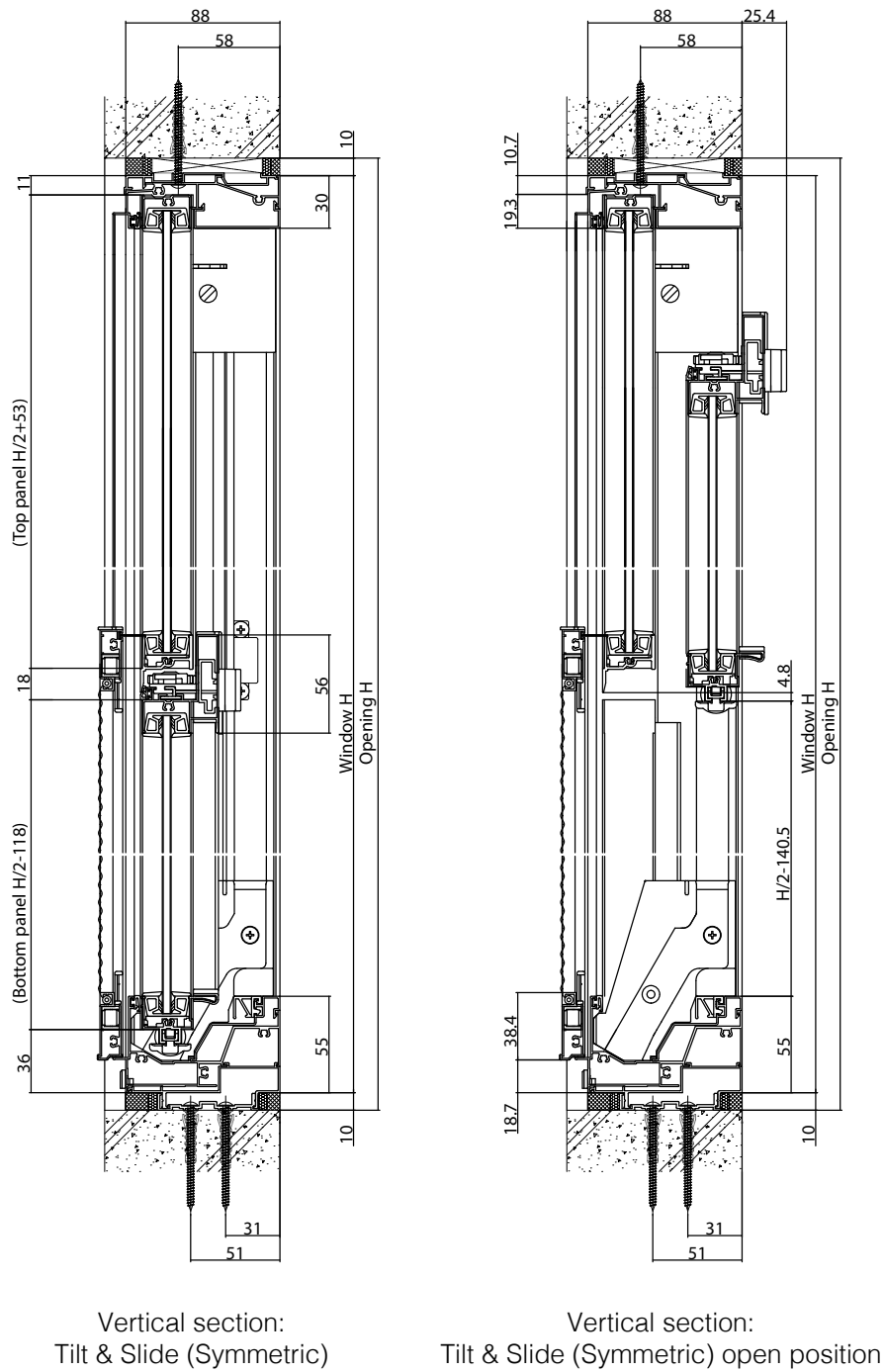
Horizontal section: Single fixed window (IG unit)



Horizontal section: Fixed window with mullion (IG unit)

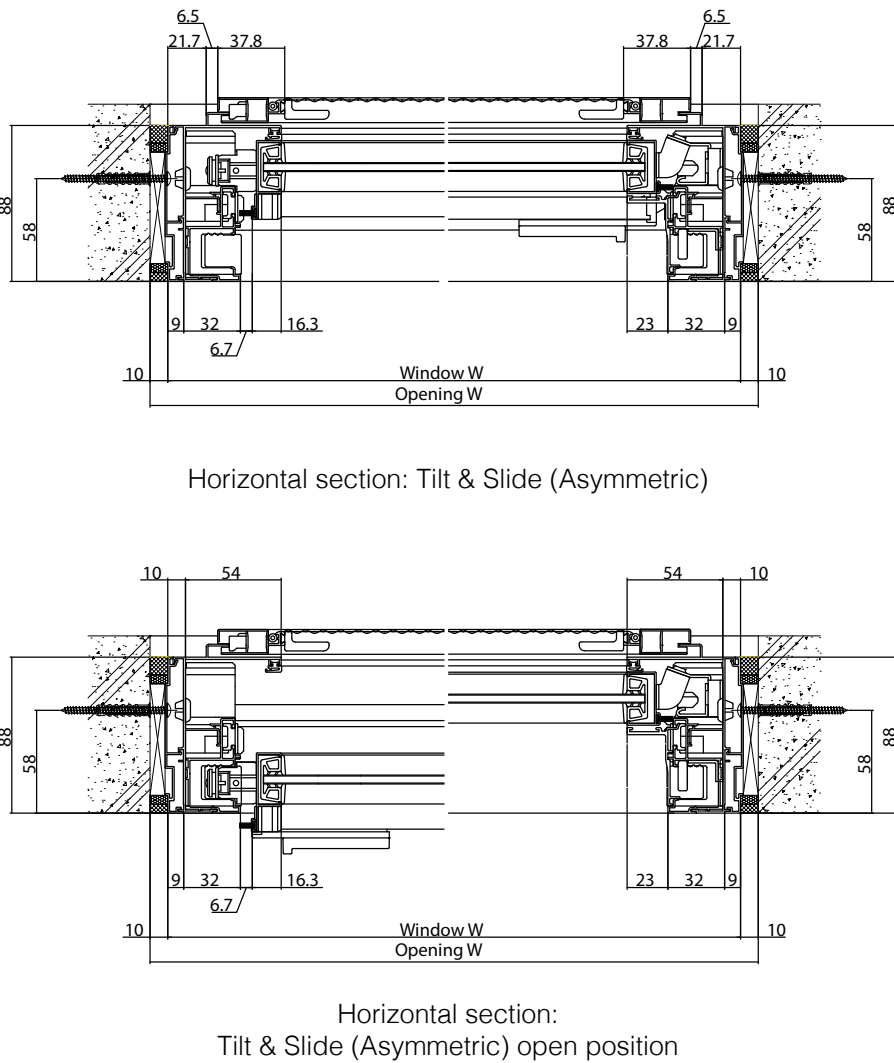
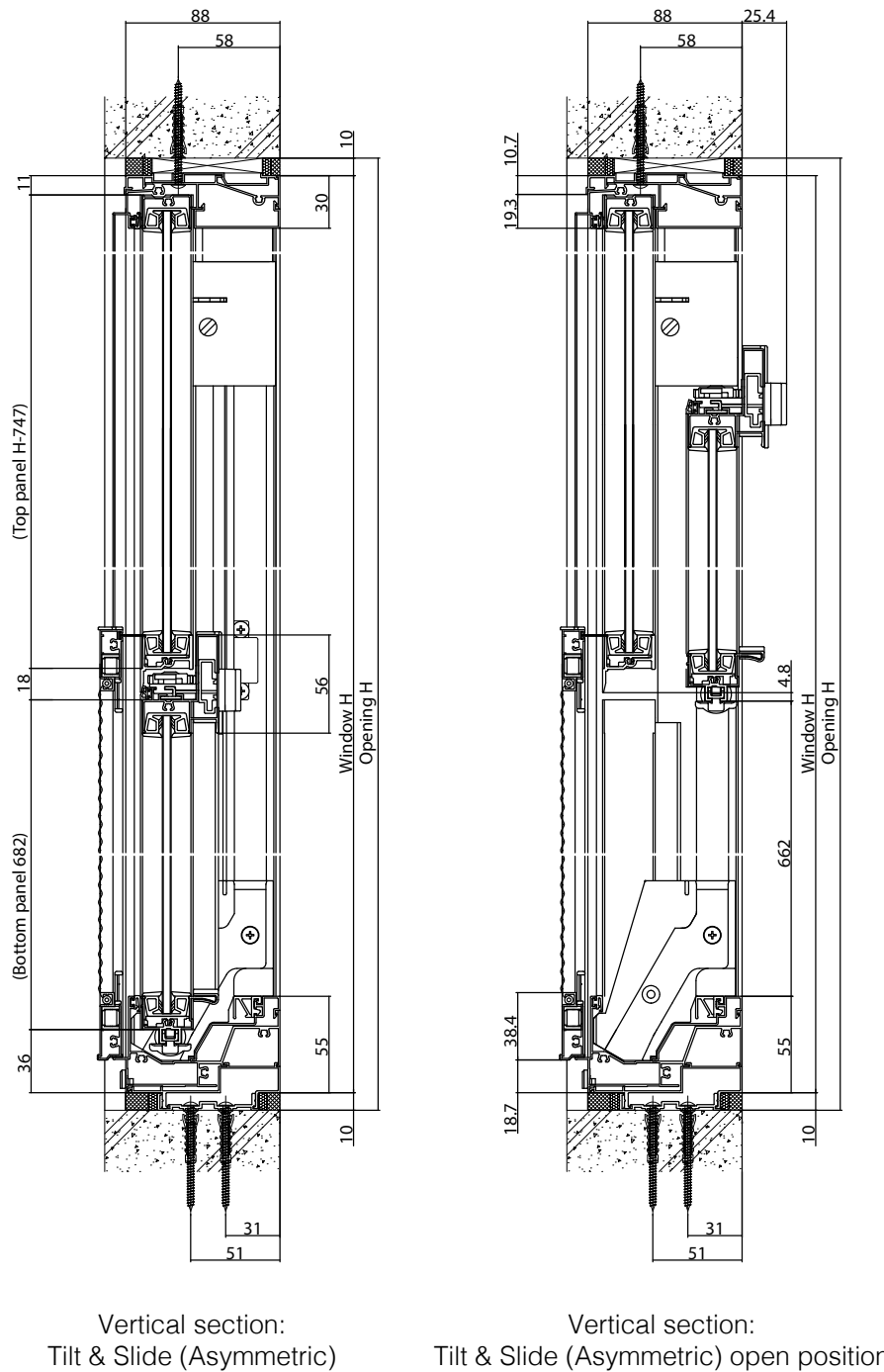
ATIS

TILT AND SLIDE (SYMMETRIC)



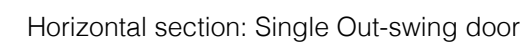
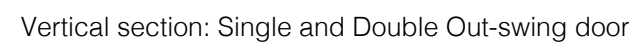
ATIS

TILT AND SLIDE (ASYMMETRIC)

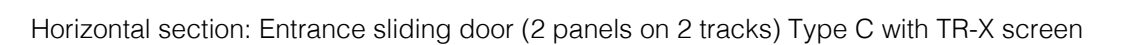
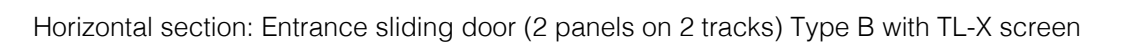
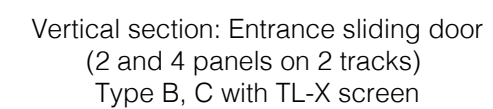


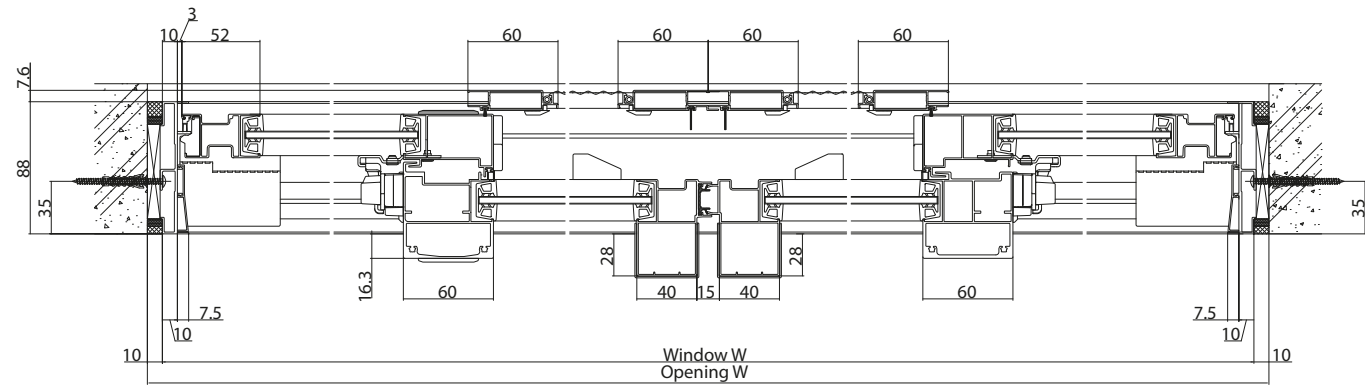


## OUT-SWING DOOR

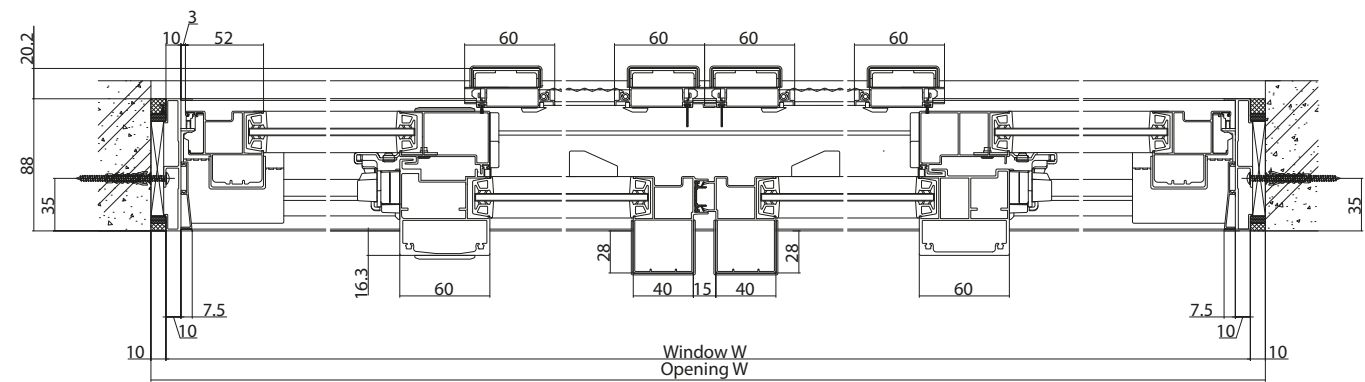


## ENTRANCE SLIDING DOOR (2P2T, 4P2T)





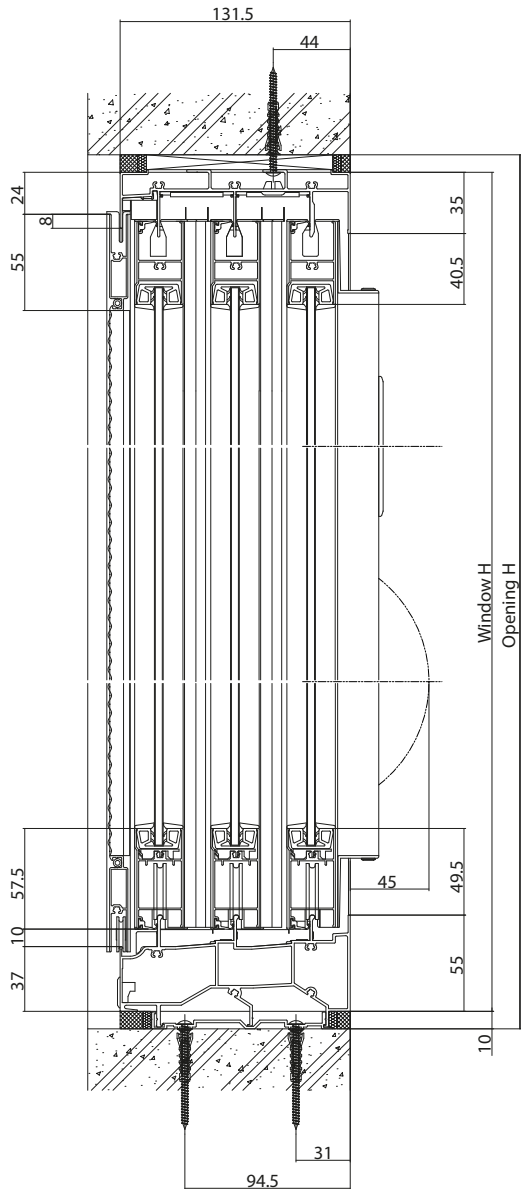
Horizontal section: Entrance sliding door (4 panels on 2 tracks) Type B with TL-X screen



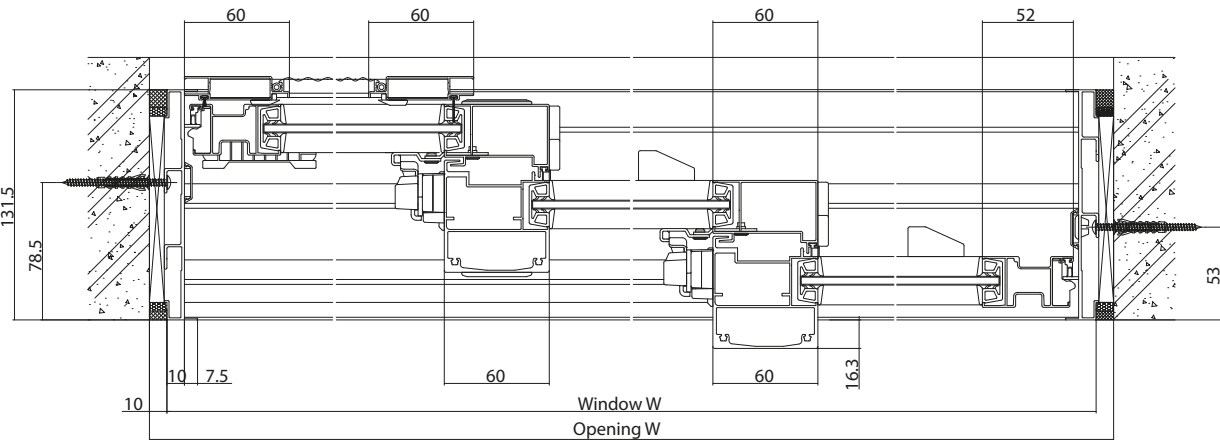
Horizontal section: Entrance sliding door (4 panels on 2 tracks) Type C with TR-X screen

# ATIS

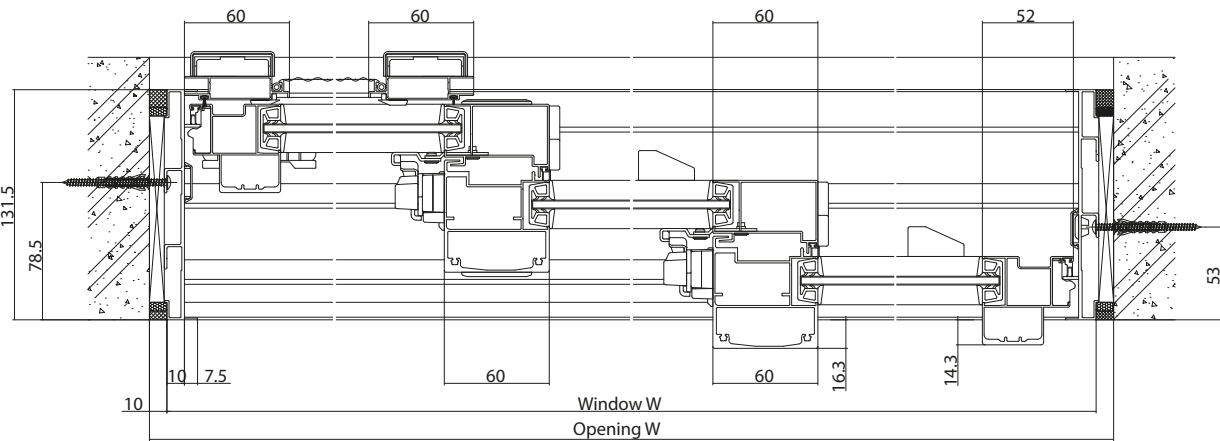
## ENTRANCE SLIDING DOOR (3P3T)



Vertical section: Entrance sliding door  
(3 panels on 3 tracks)  
Type B, C with TL-X screen



Horizontal section: Entrance sliding door (3 panels on 3 tracks) Type B with TL-X screen

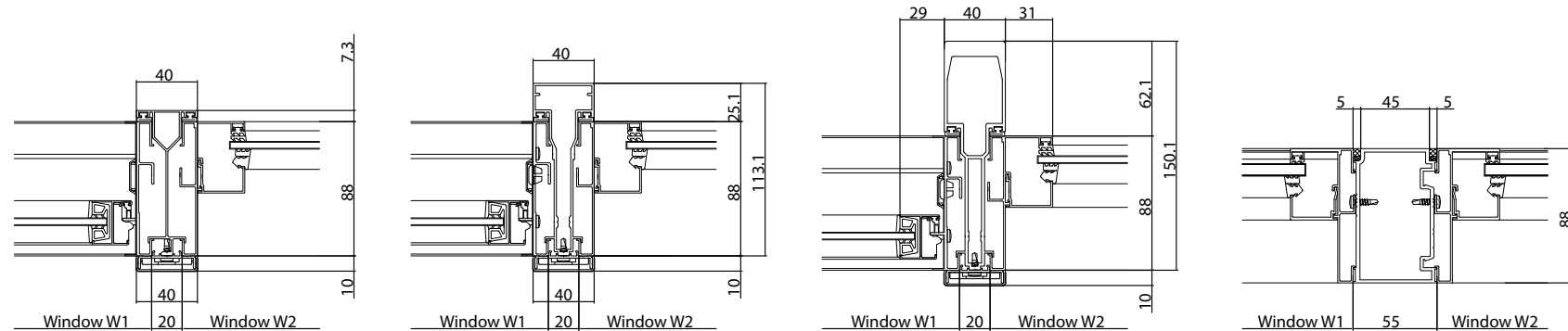


Horizontal section: Entrance sliding door (3 panels on 3 tracks) Type C with TR-X screen



# ATIS

## TRANSOM & MULLION

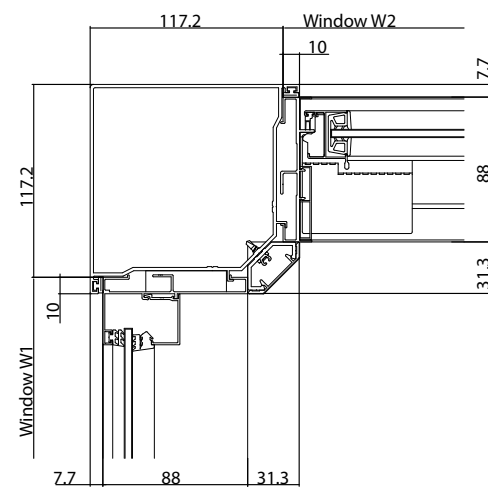


Mullion 180 Type A

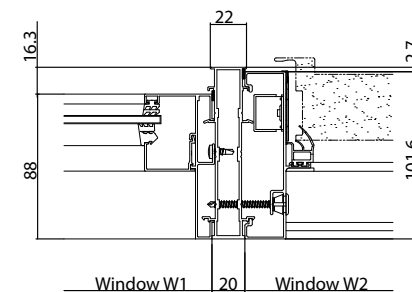
Mullion 180 Type B

Mullion 180 Type C

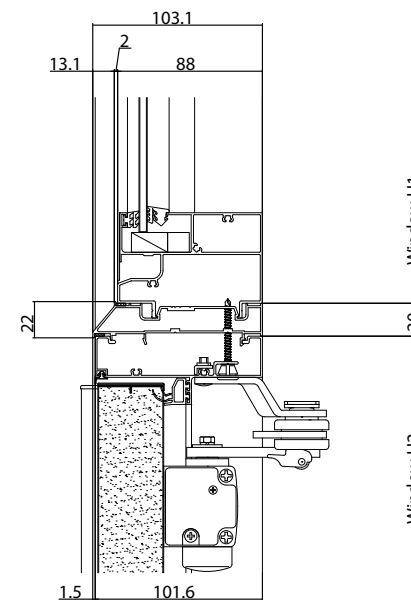
Reinforcement Mullion 180



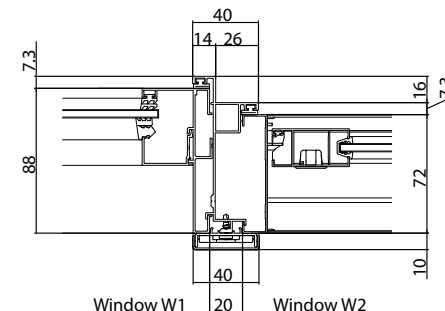
Corner mullion



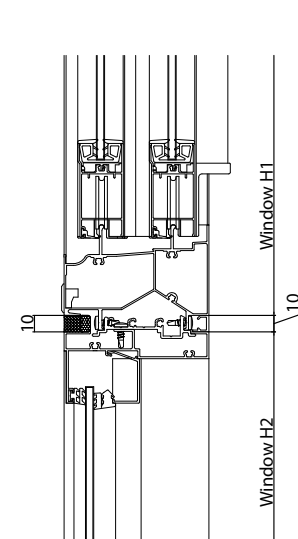
Mullion 180 (101 mm)



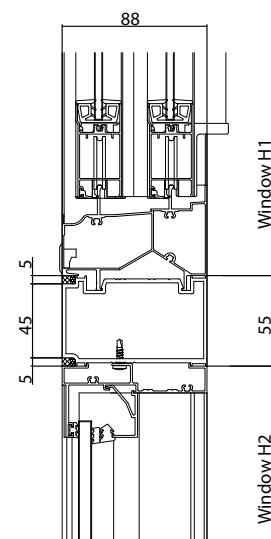
Transom (101 mm)



Mullion 180 for WE combination



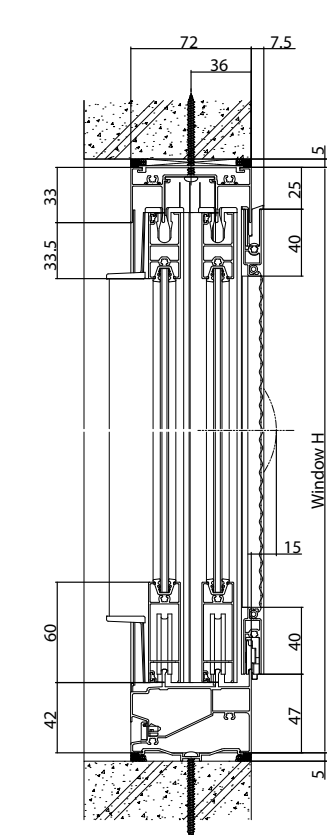
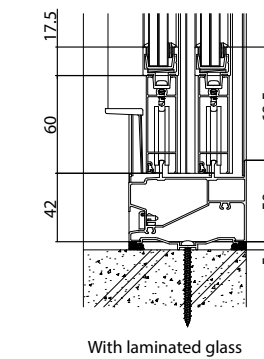
Transom Type A (88 mm)



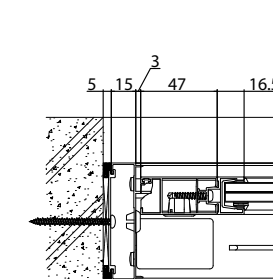
Reinforcement Transom

# WE PLUS

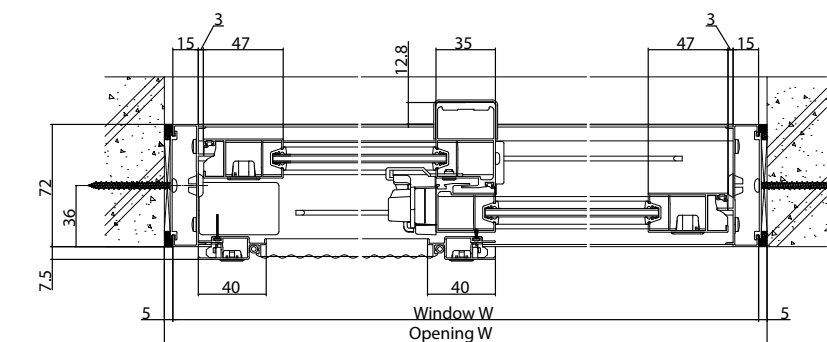
## SLIDING (2P2T, 4P2T)

Vertical section: Sliding window  
(2 and 4 panels on 2 tracks)  
with TS-X screen

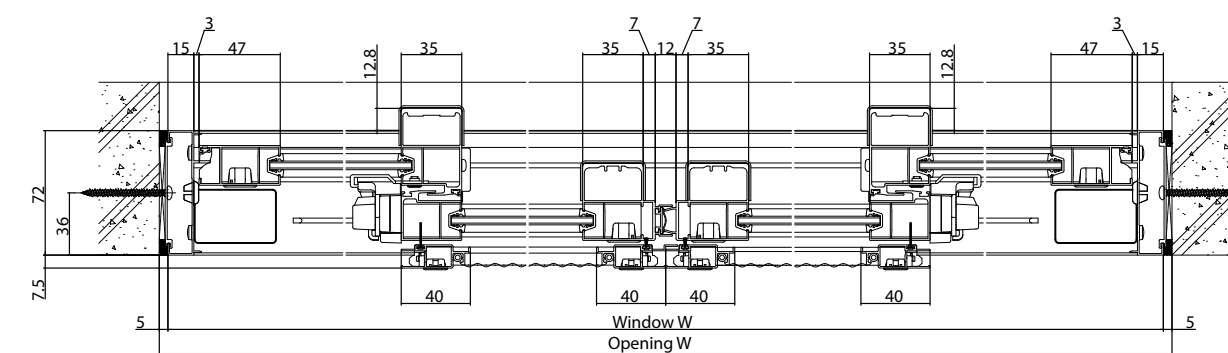
With laminated glass



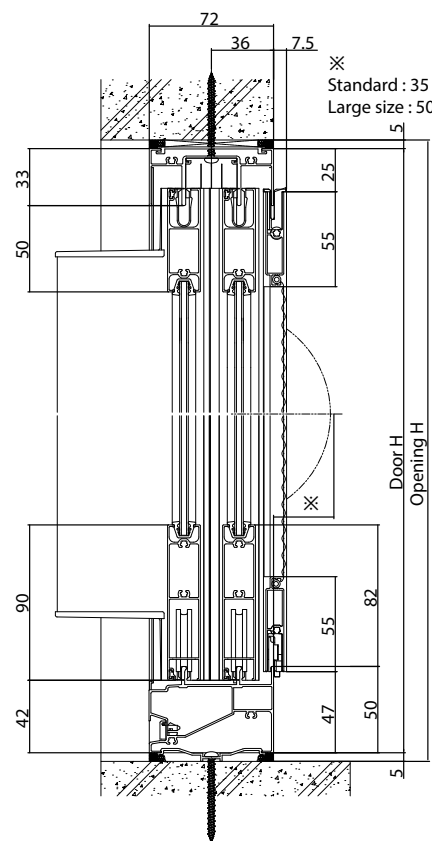
With laminated glass



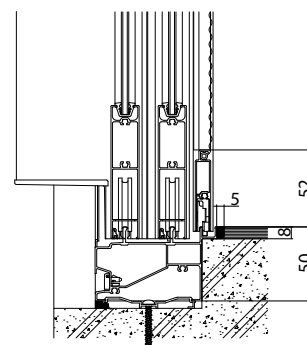
Horizontal section: Sliding window (2 panels on 2 tracks) with TS-X screen



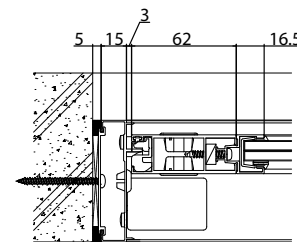
Horizontal section: Sliding window (4 panels on 2 tracks) with TS-X screen



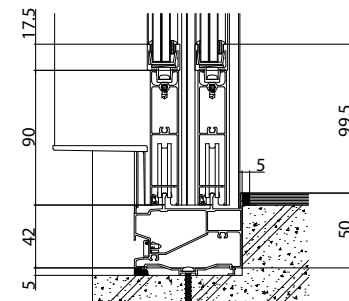
Vertical section: Sliding door  
(2 and 4 panels on 2 tracks)  
with TL-X screen



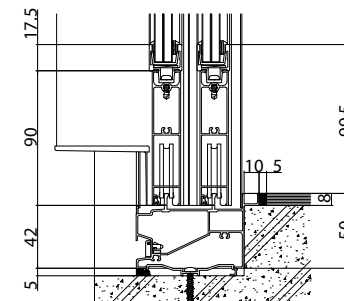
For floor



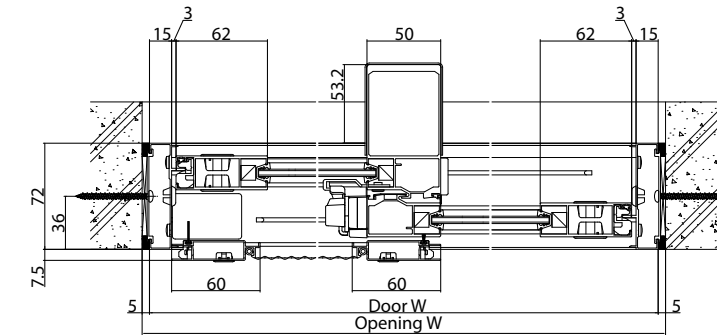
With laminated glass



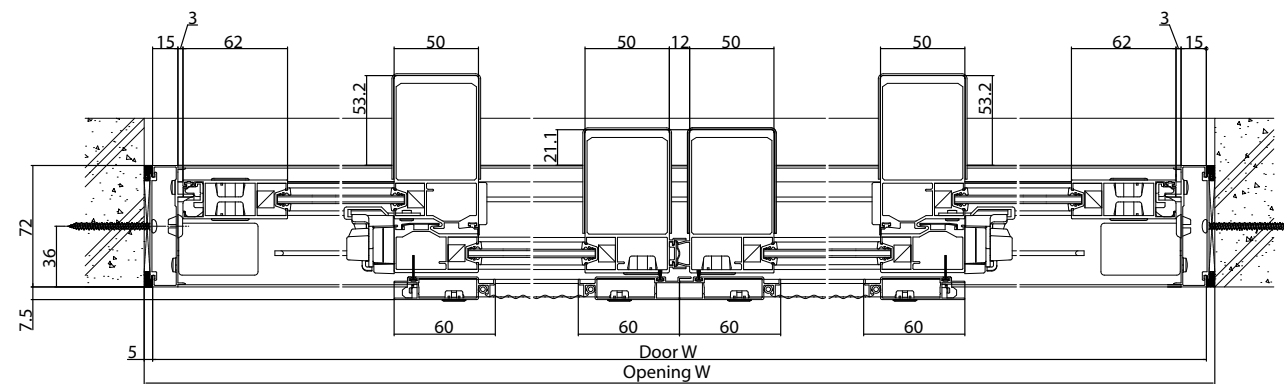
With laminated glass



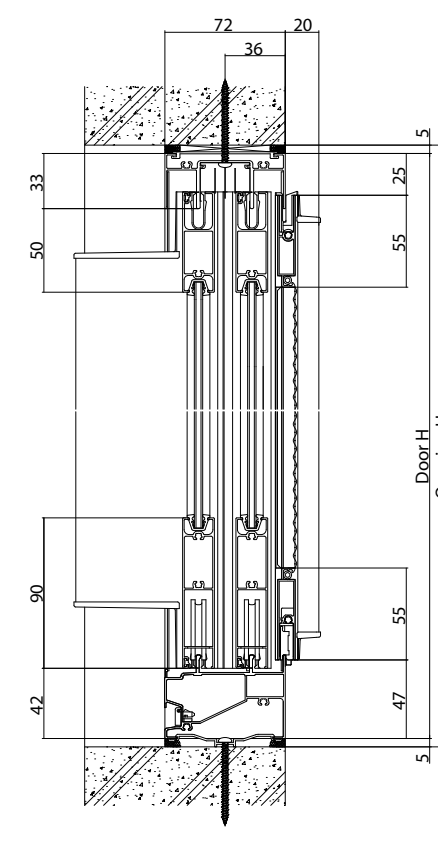
For floor with laminated glass



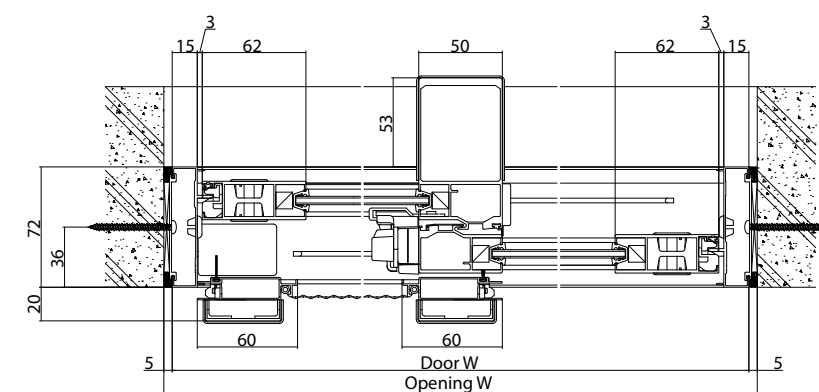
Horizontal section: Sliding door (2 panels on 2 tracks)  
with TL-X screen



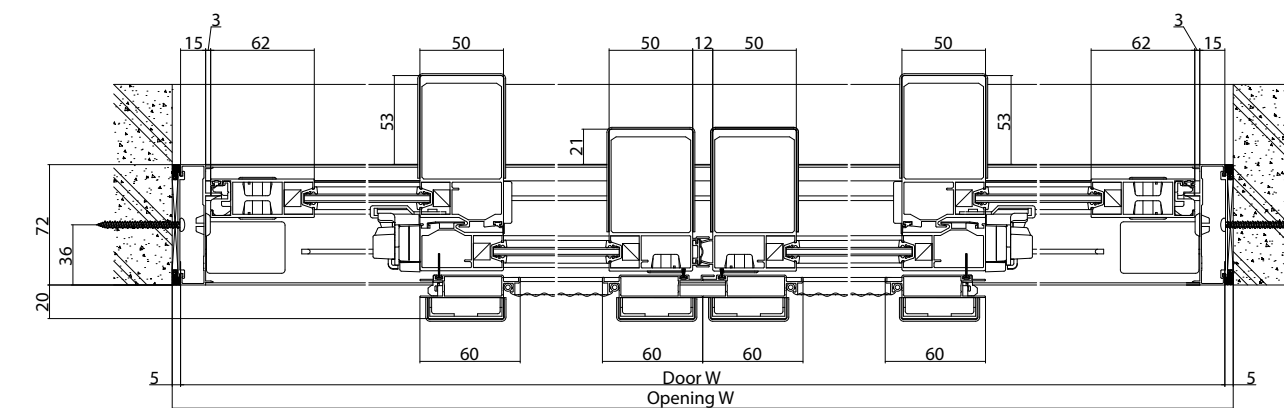
Horizontal section: Sliding door (4 panels on 2 track) with TL-X screen



Vertical section: Sliding door  
(2 and 4 panels on 2 tracks)  
with TR-X screen



Horizontal section: Sliding door (2 panels on 2 tracks)  
with TR-X screen

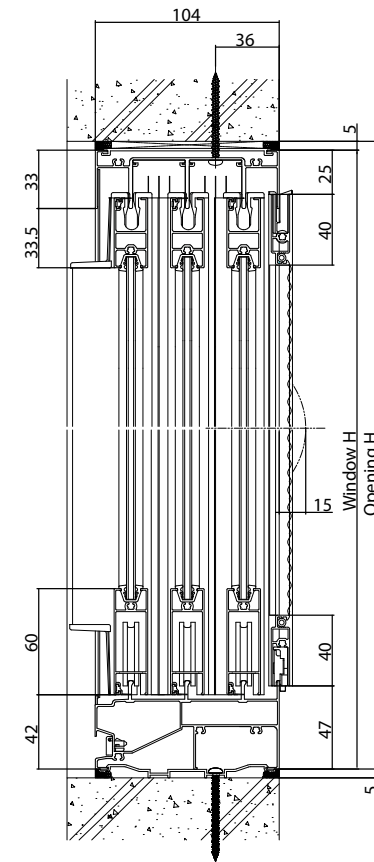


Horizontal section: Sliding door (4 panels on 2 tracks) with TR-X screen

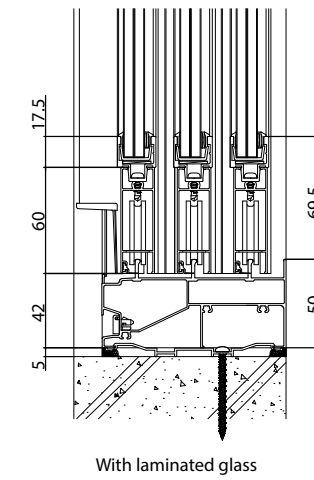


## WE PLUS

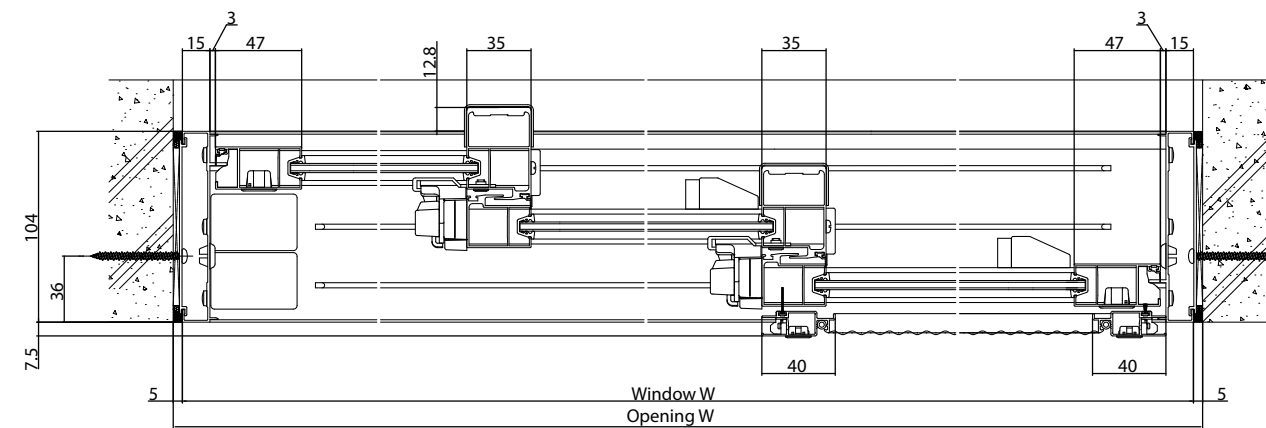
## SLIDING (3P3T, 6P3T)



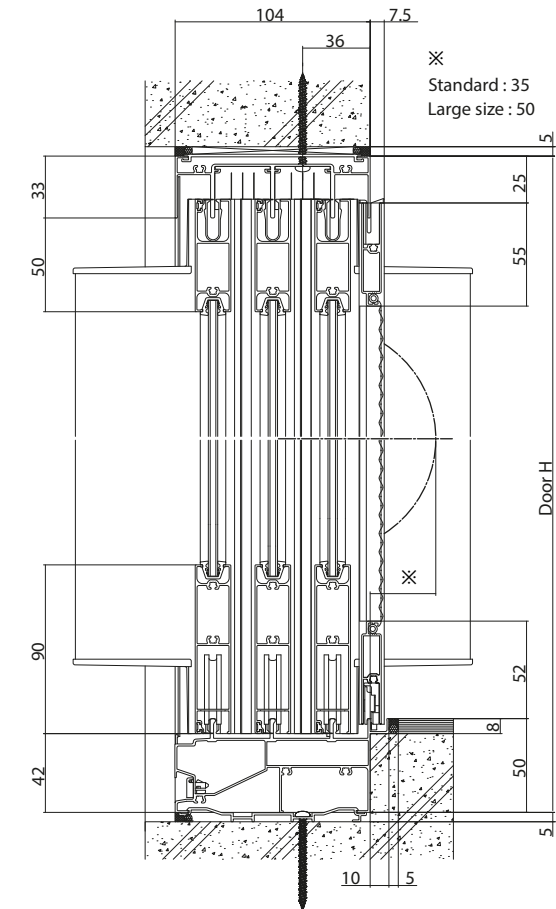
Vertical section: Sliding window  
(3 panels on 3 tracks)  
with TS-X screen



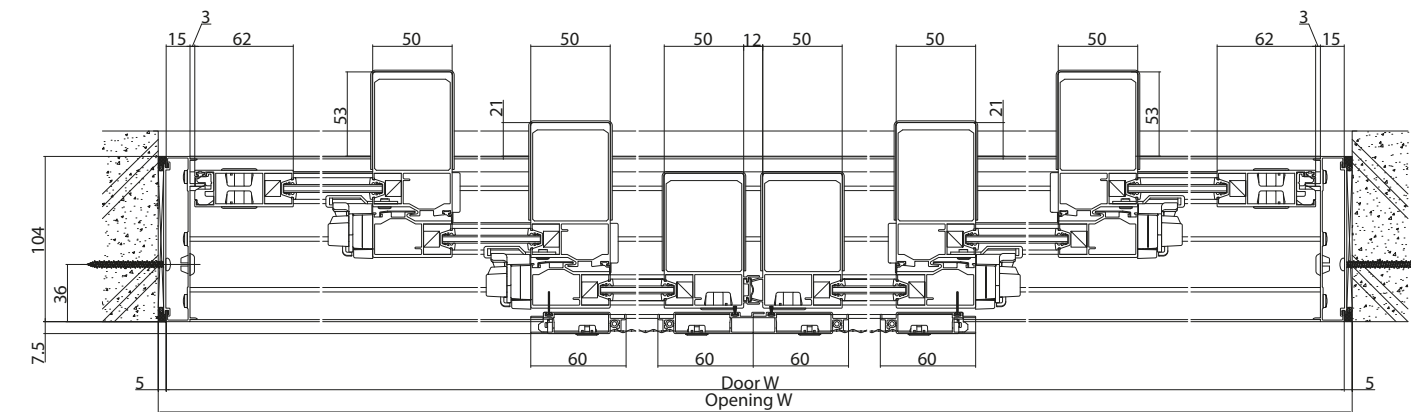
With laminated glass



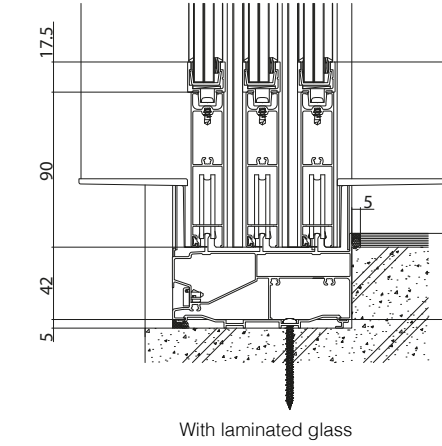
Horizontal section: Sliding window (3 panels on 3 tracks) with TS-X screen



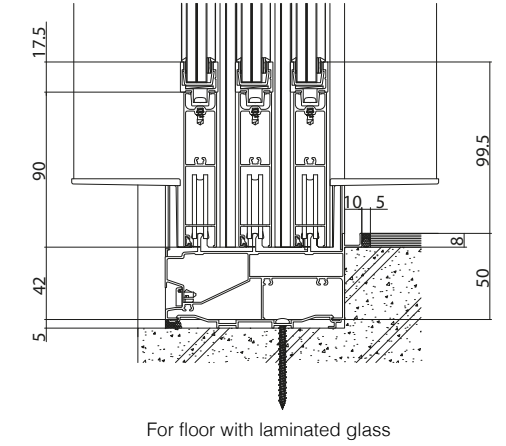
Vertical section: Sliding door  
(3 and 6 panels on 3 tracks)  
with TL-X screen



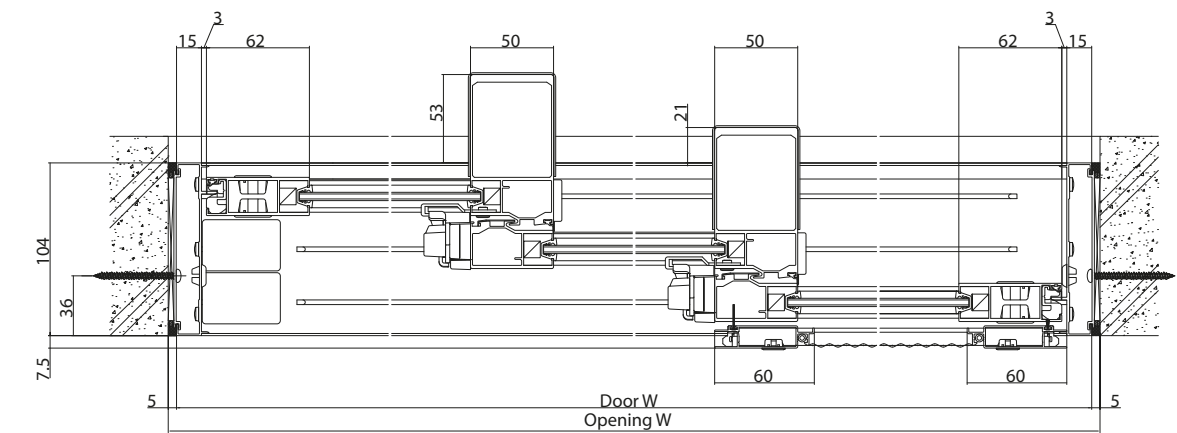
Horizontal section: Sliding door (6 panels on 3 tracks) with TL-X screen



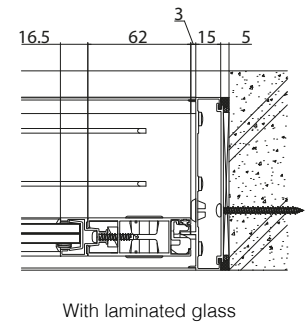
With laminated glass



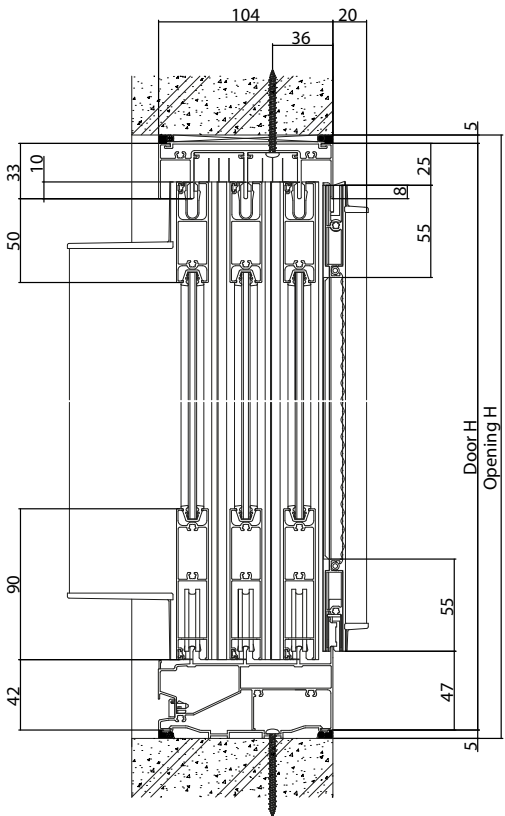
For floor with laminated glass



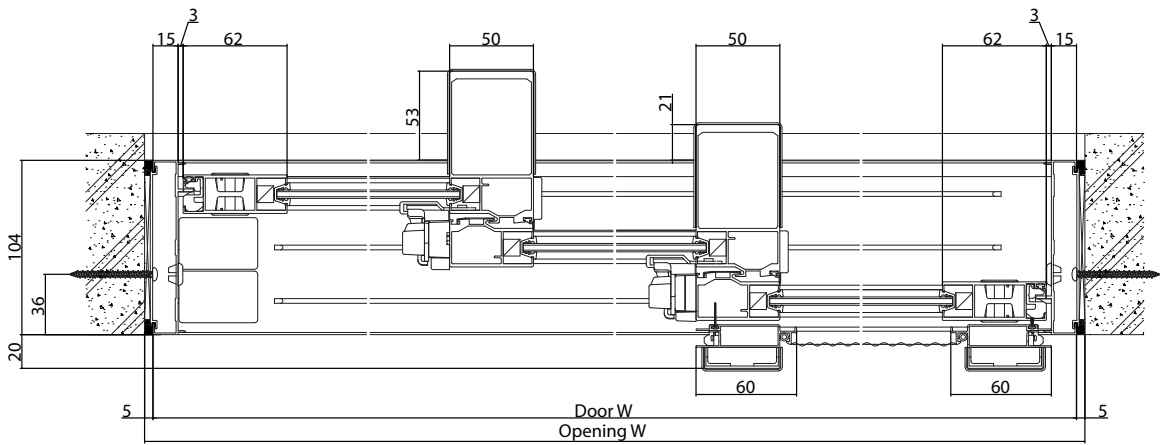
Horizontal section: Sliding door (3 panels on 3 tracks) with TL-X screen



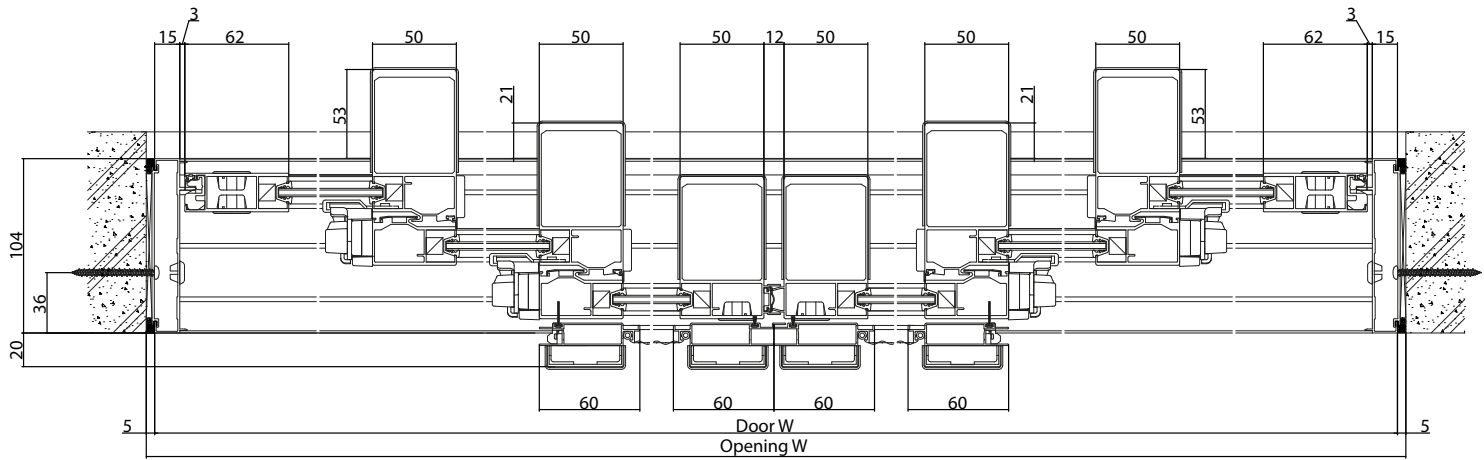
With laminated glass



Vertical section: Sliding door (3 and 6 panels on 3 tracks) with TR-X screen



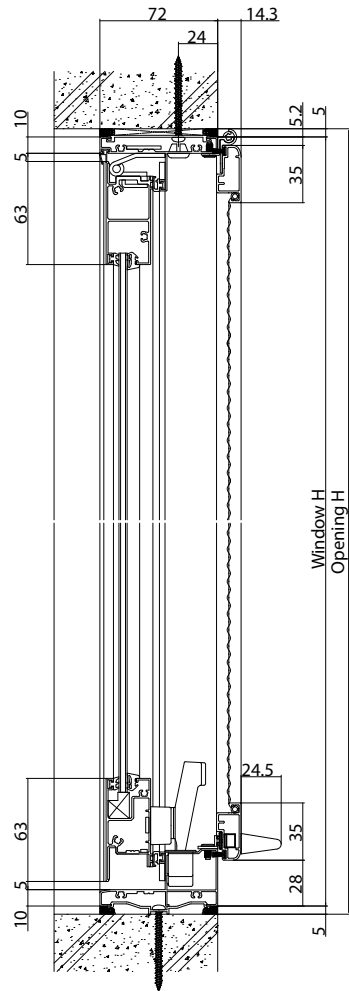
Horizontal section: Sliding door (3 panels on 3 tracks) with TR-X screen



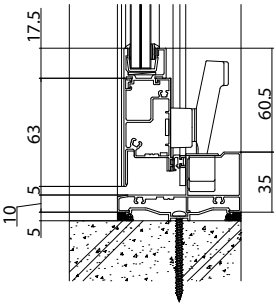
Horizontal section: Sliding door (6 panels on 3 tracks) with TR-X screen

WE PLUS

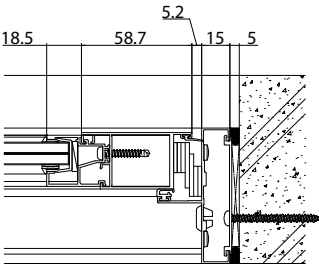
AWNING WINDOW



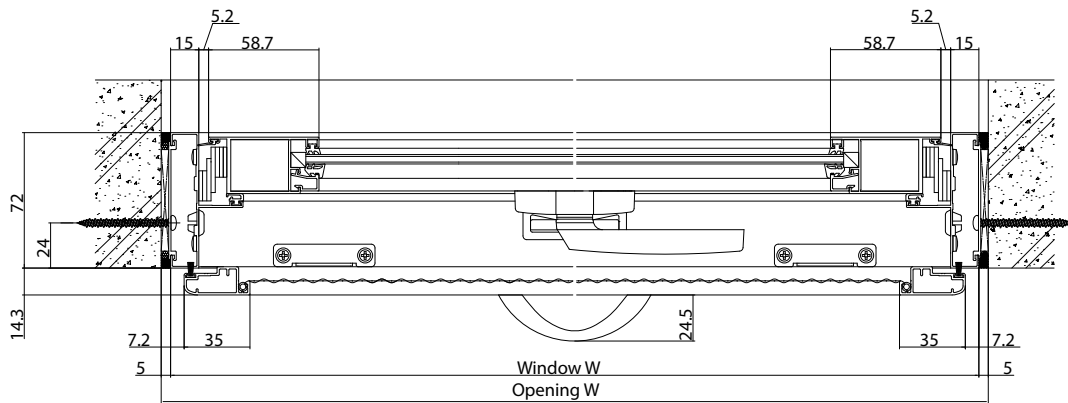
Vertical section: Awning window (single lock)



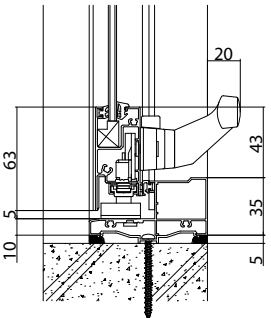
With laminated glass



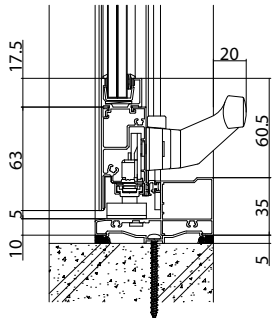
With laminated glass



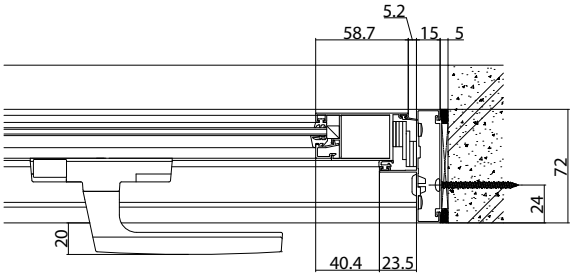
Horizontal section: Awning window (single lock)



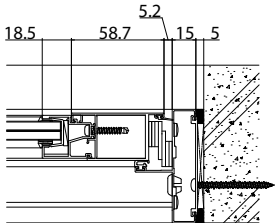
Multi lock bottom detail



With laminated glass



Multi lock jamb detail

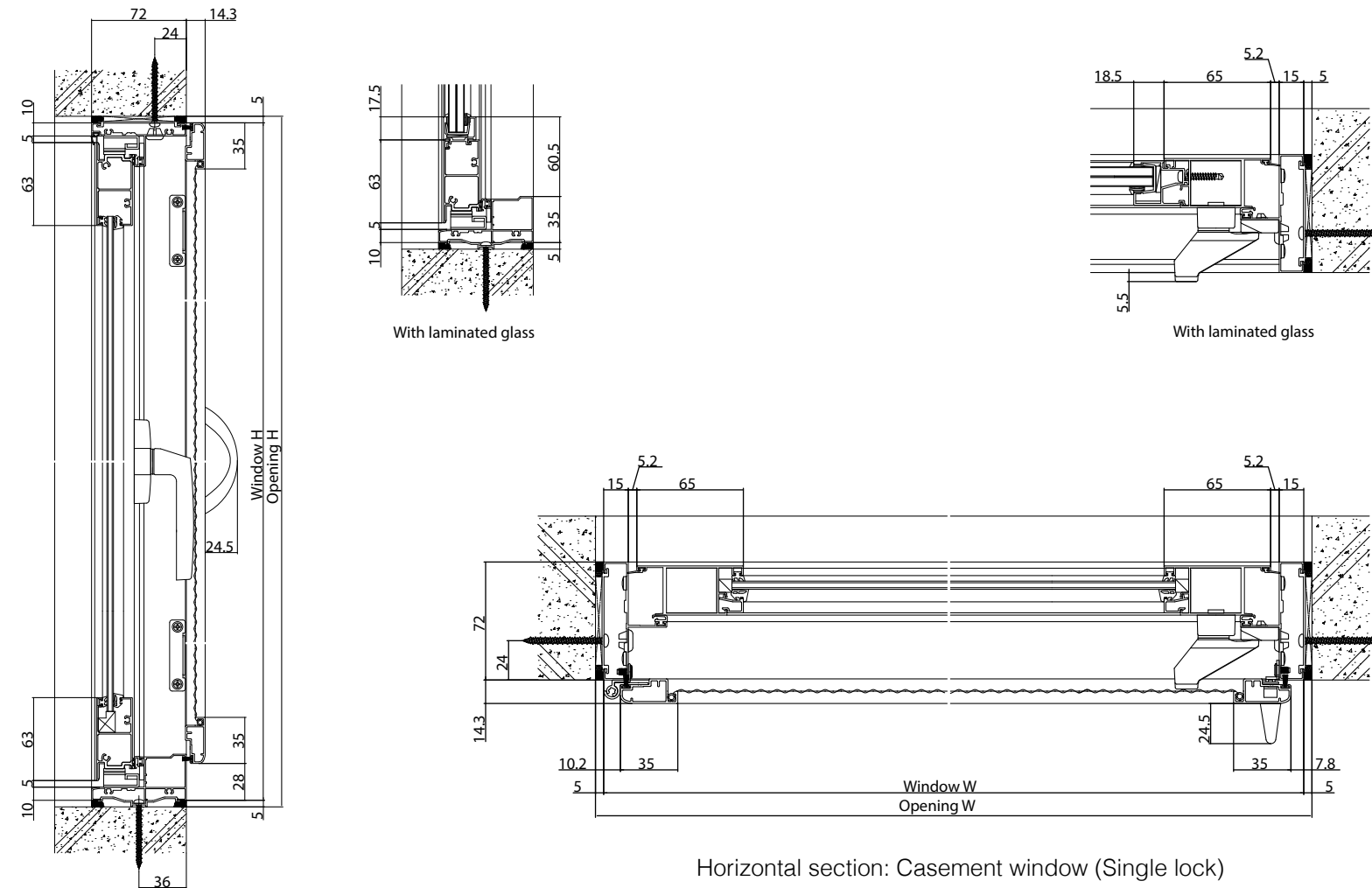


With laminated glass



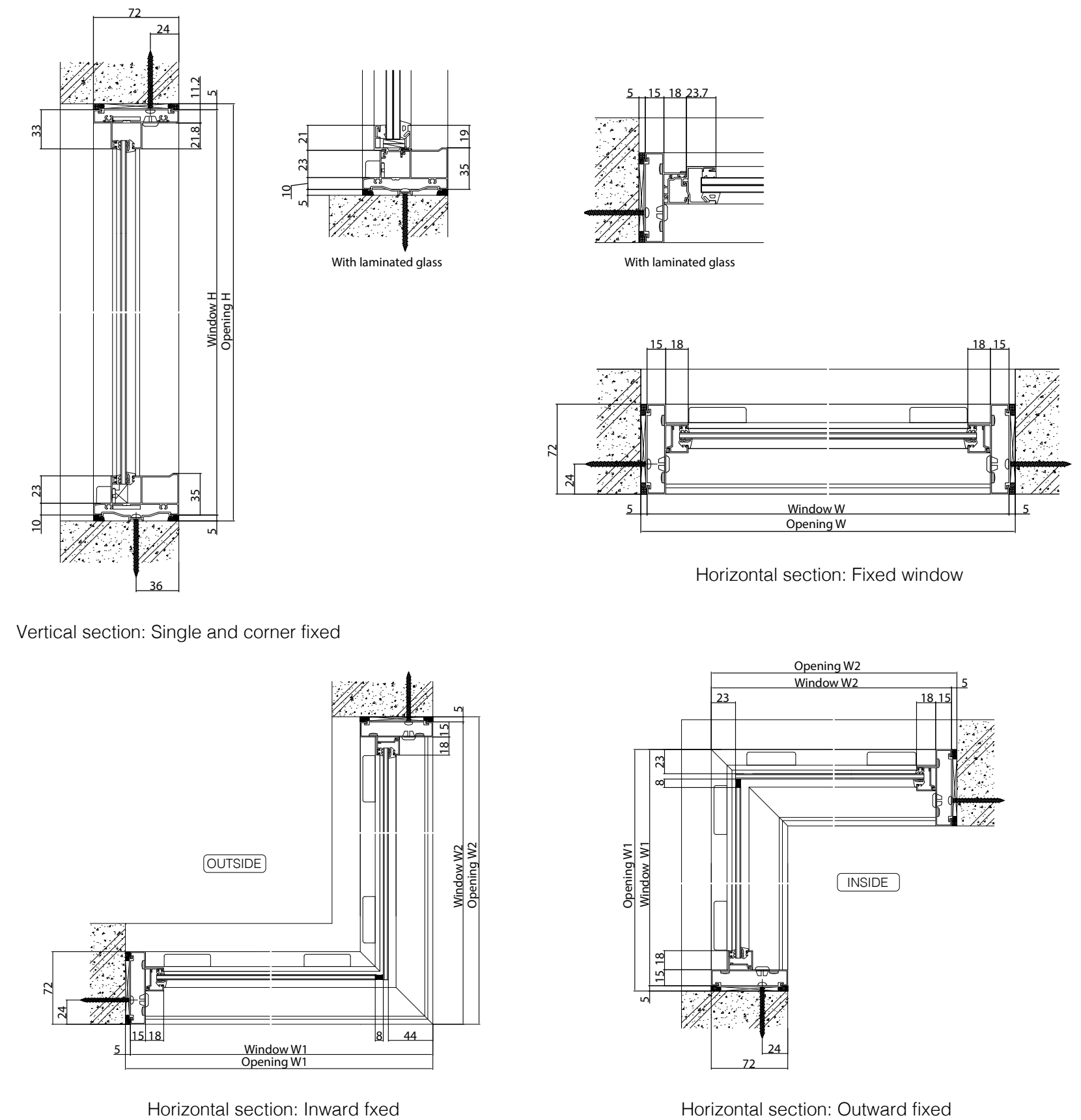
## WE PLUS

## CASEMENT WINDOW



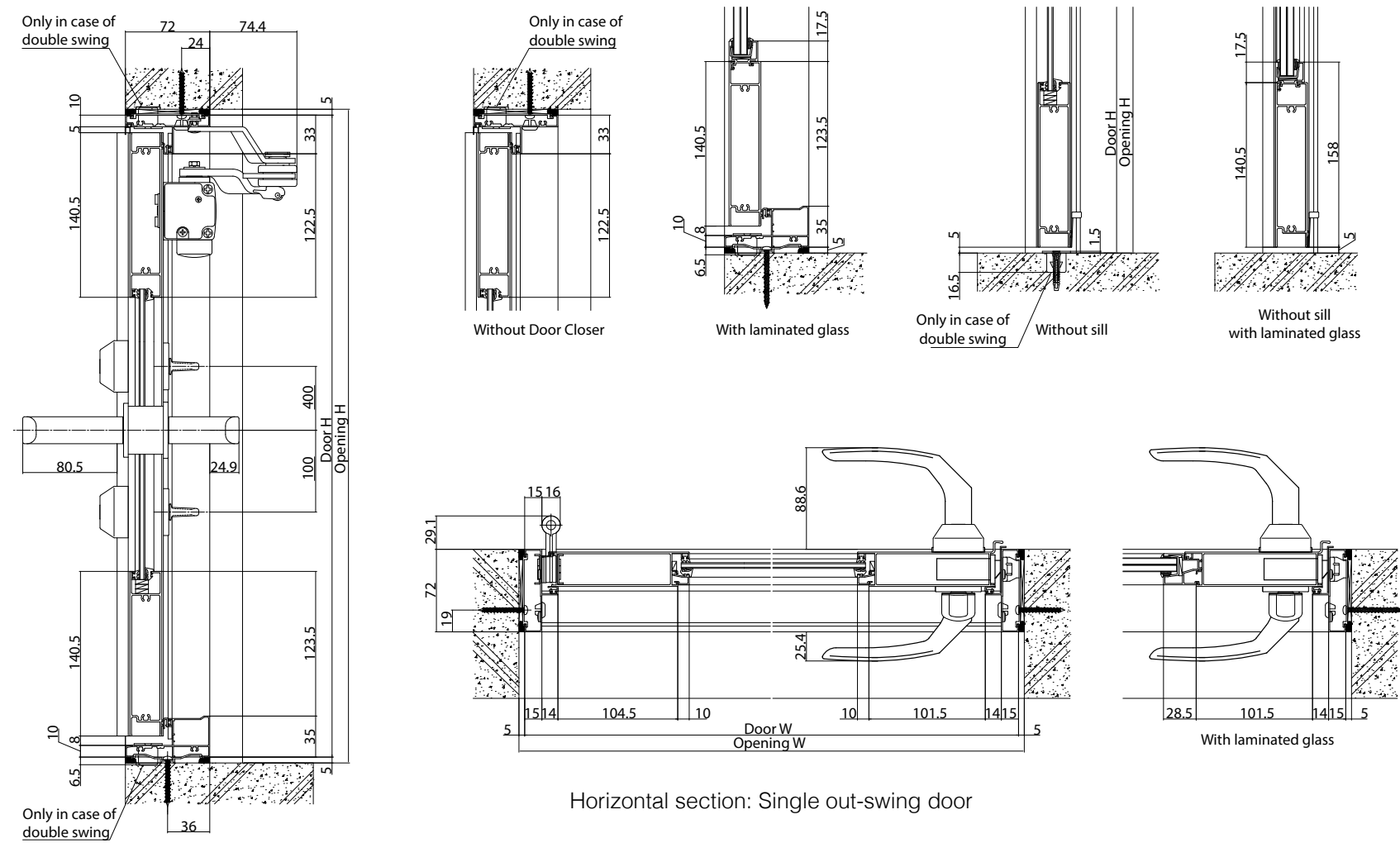
## WE PLUS

## FIXED WINDOW



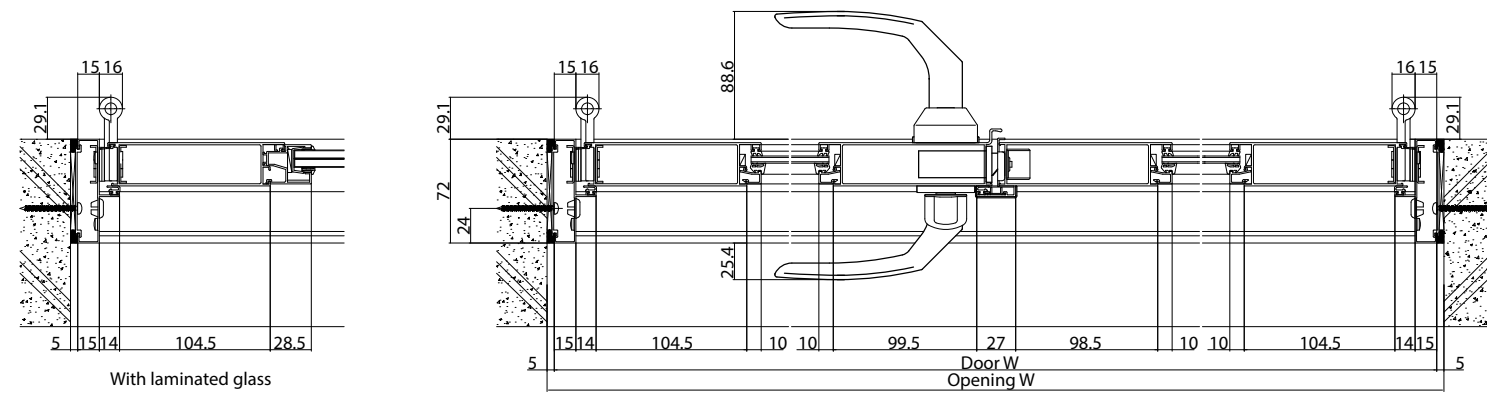
## WE PLUS

## OUT-SWING DOOR



Horizontal section: Single out-swing door

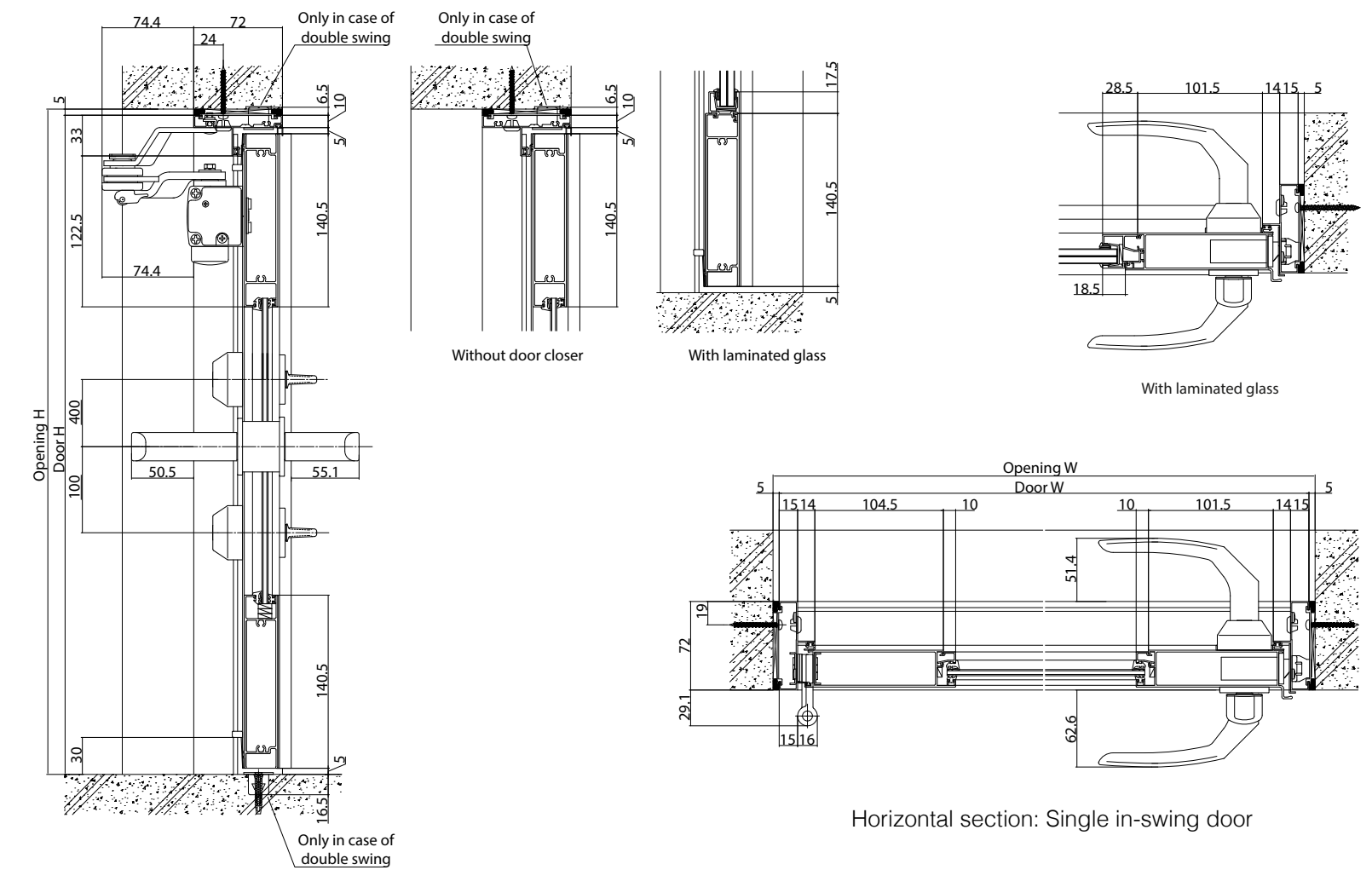
Vertical section: Single &amp; Double out-swing door



Horizontal section: Double out-swing door

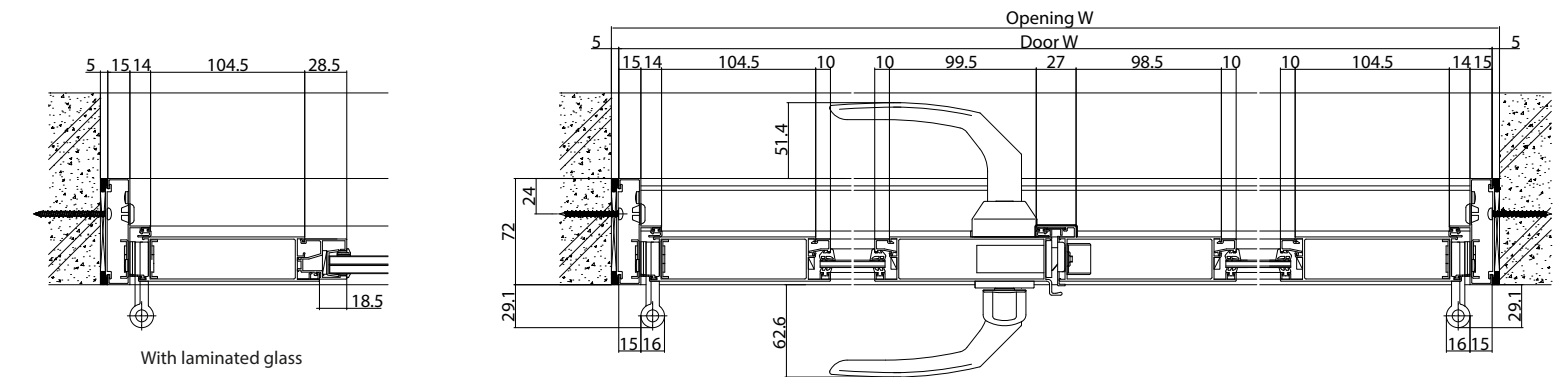
## WE PLUS

## IN-SWING DOOR



Horizontal section: Single in-swing door

Vertical section: Single &amp; Double in-swing door

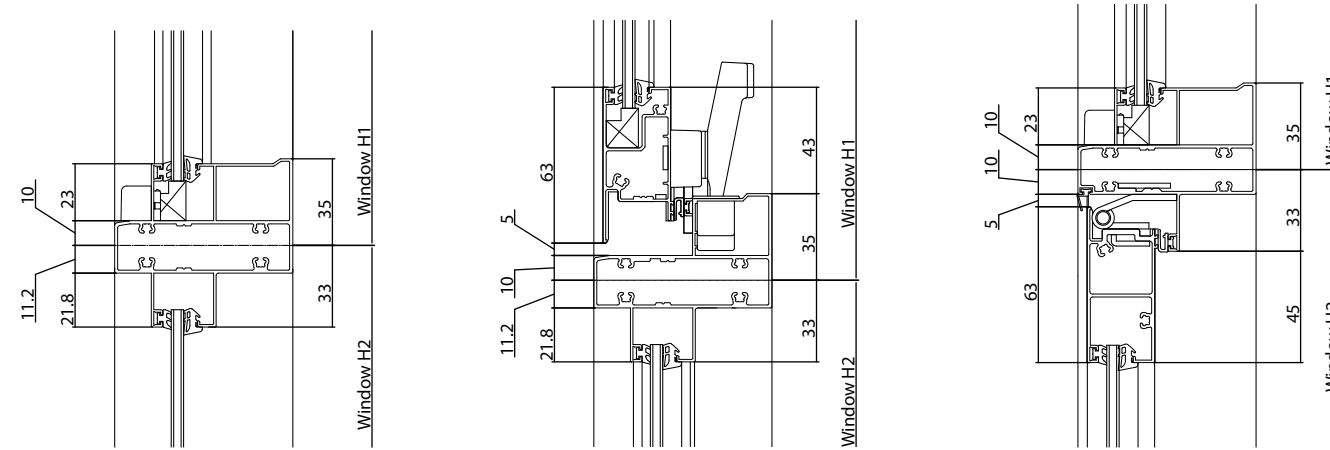
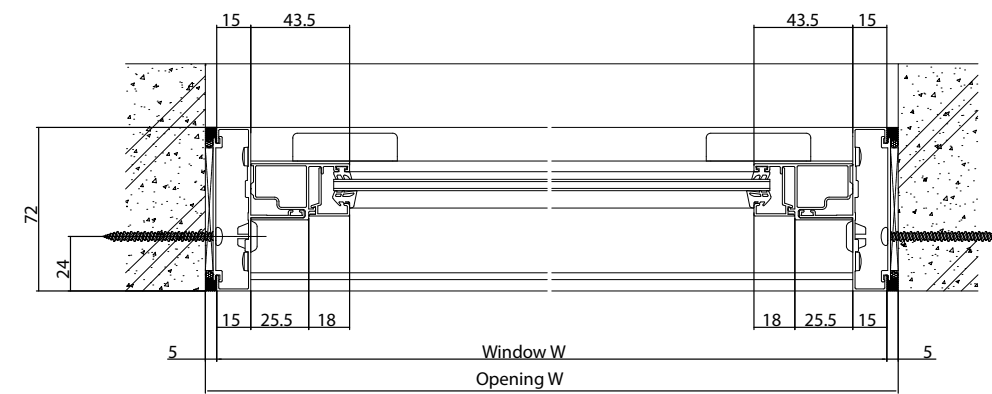


Horizontal section: Double in-swing door

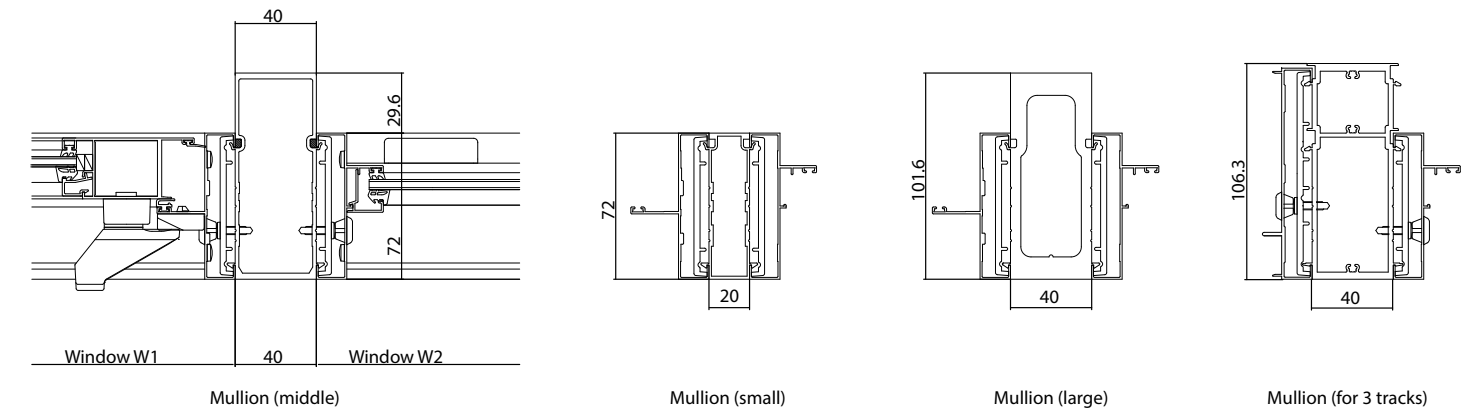


## WE PLUS

## TRANSOM &amp; MULLION

Vertical section: Fixed/  
Fixed transomVertical section: Projection/  
Fixed transomVertical section: Fixed/  
Projection transom

Horizontal section: Combination fixed window



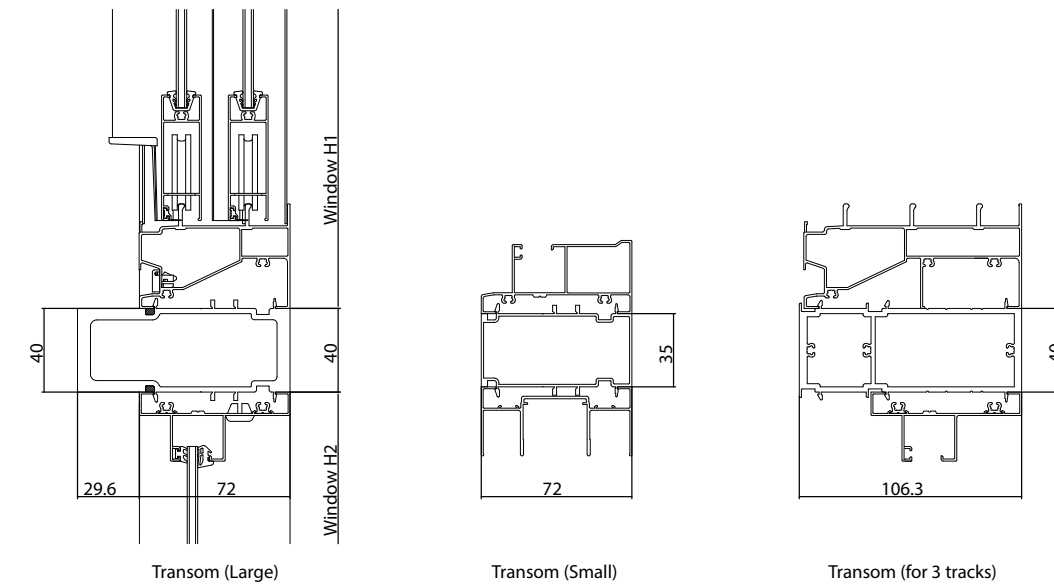
Mullion (middle)

Mullion (small)

Mullion (large)

Mullion (for 3 tracks)

Mullion 180°

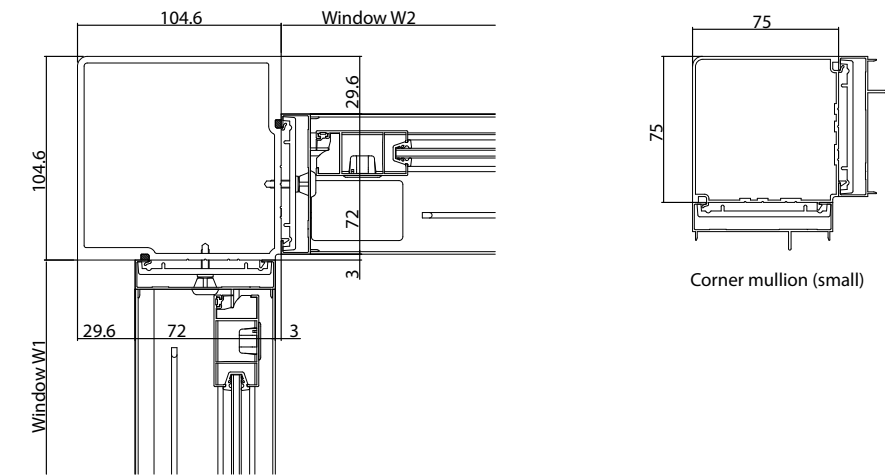


Transom (Large)

Transom (Small)

Transom (for 3 tracks)

Transom

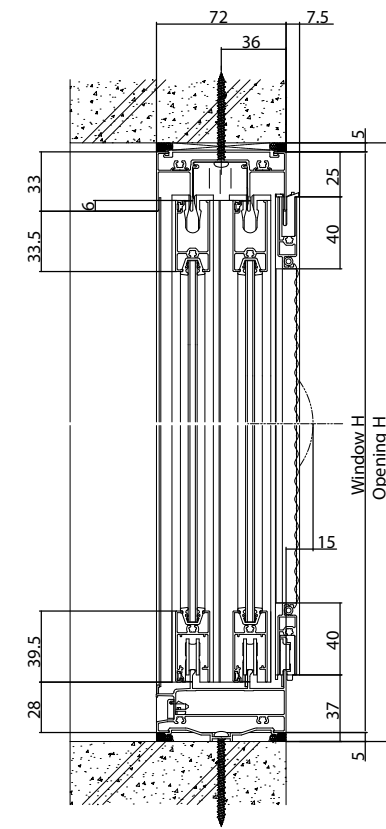


Corner mullion

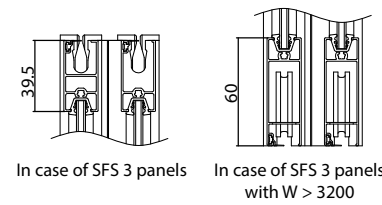
Corner mullion (small)

## WE 70

## SLIDING (2P2T, 4P2T, SFS 3P2T)

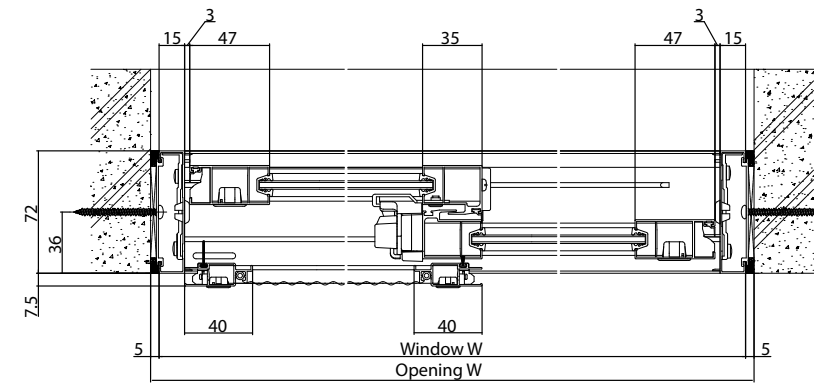


Vertical section: Sliding window  
(2, 4 and SFS 3 panels on 2 tracks)  
with TS-X screen

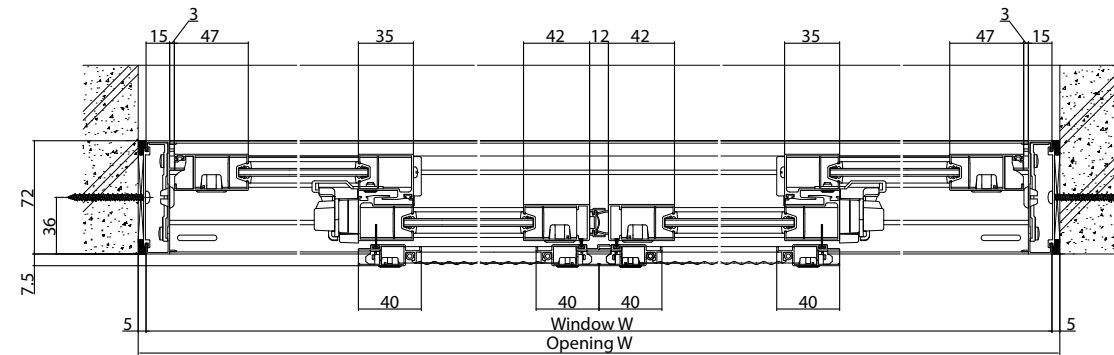


In case of SFS 3 panels

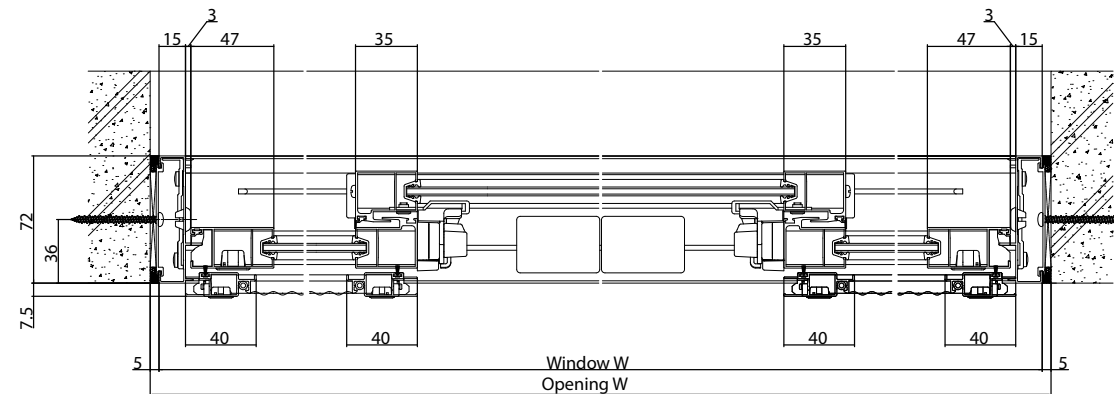
In case of SFS 3 panels  
with W > 3200



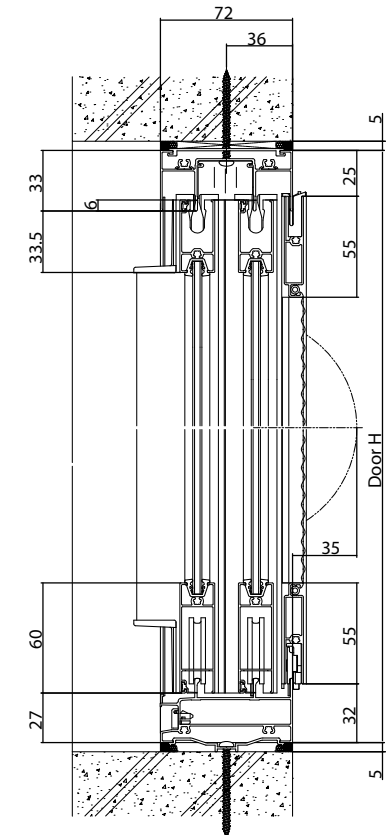
Horizontal section: Sliding window (2 panels on 2 tracks)  
with TS-X screen



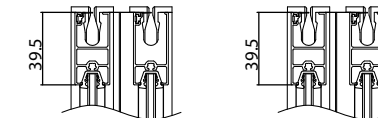
Horizontal section: Sliding window (4 panels on 2 tracks) with TS-X screen



Horizontal section: Sliding window (SFS 3 panels on 2 tracks) with TS-X screen

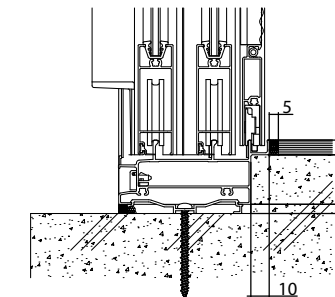


Vertical section: Sliding door  
(2, 4 and SFS 3 panels on 2 tracks)  
with TL-X screen

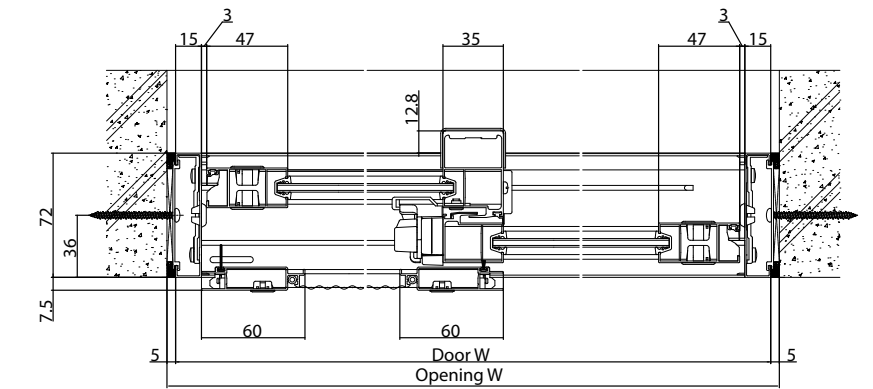


In case of SFS 3 panels

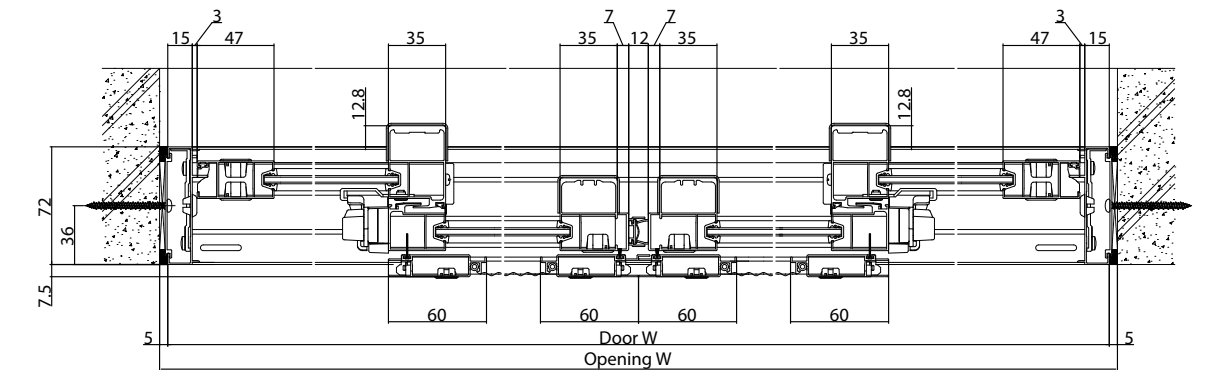
In case of W > 2600



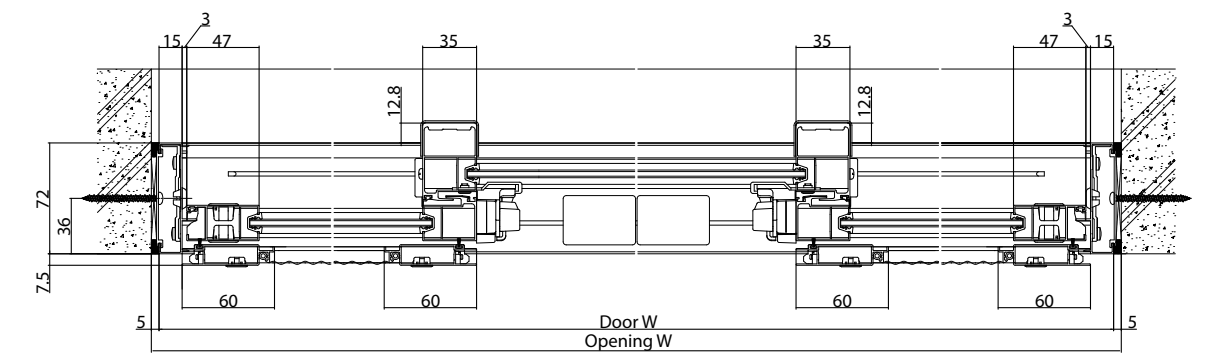
In case of floor finish sill



Horizontal section: Sliding door (2 panels on 2 tracks)  
with TL-X screen

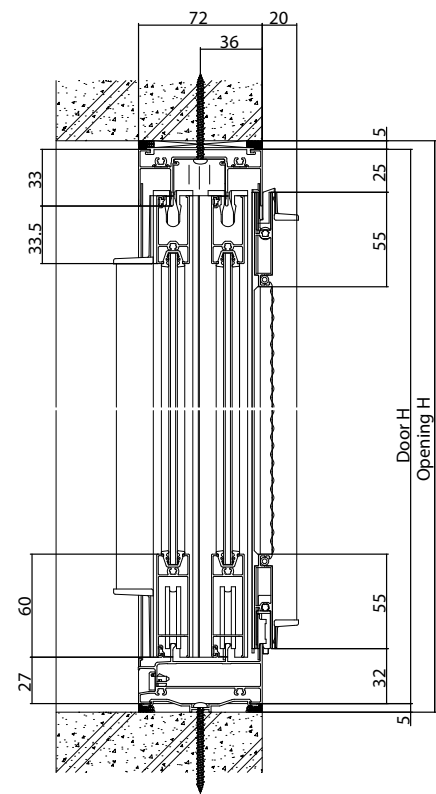


Horizontal section: Sliding door (4 panels on 2 tracks) with TL-X screen

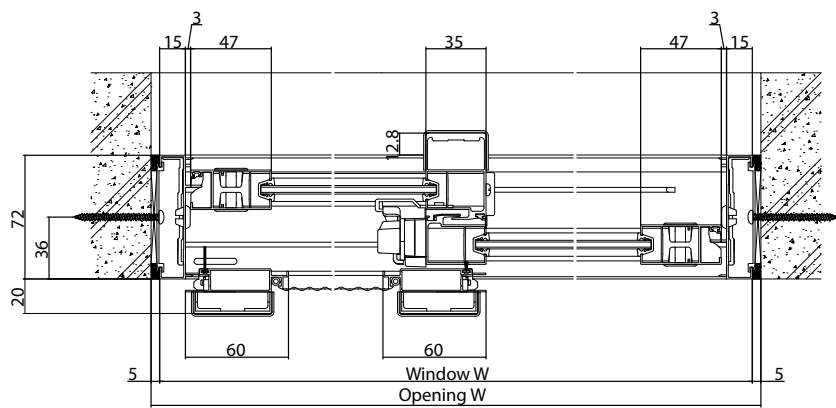


Horizontal section: Sliding door (SFS 3 panels on 2 tracks) with TL-X screen

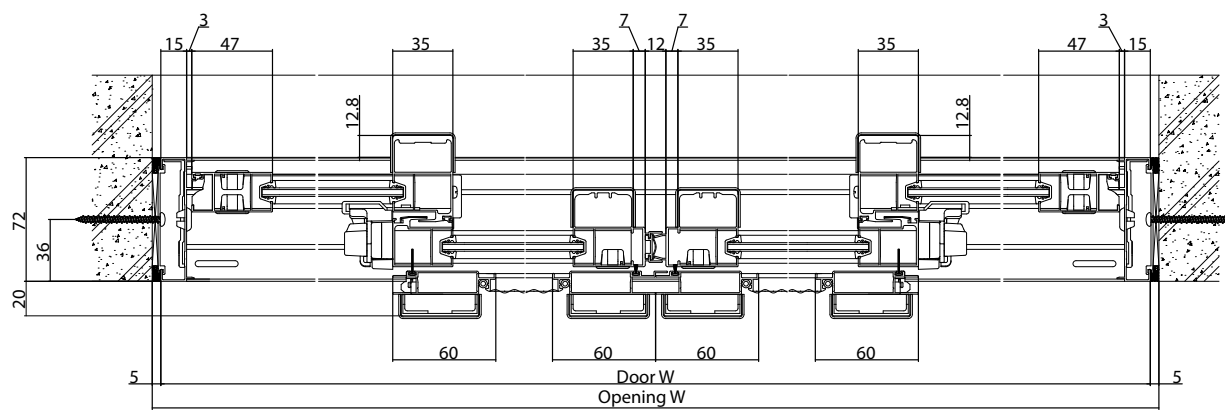




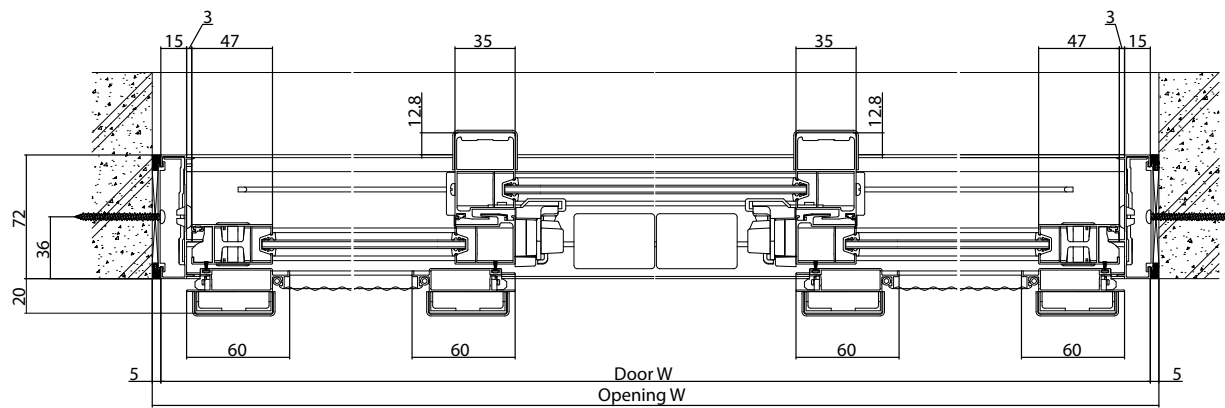
Vertical section: Sliding door (2, 4 and SFS 3 panels on 2 tracks) with TR-X screen



Horizontal section: Sliding door (2 panels on 2 tracks) with TR-X screen



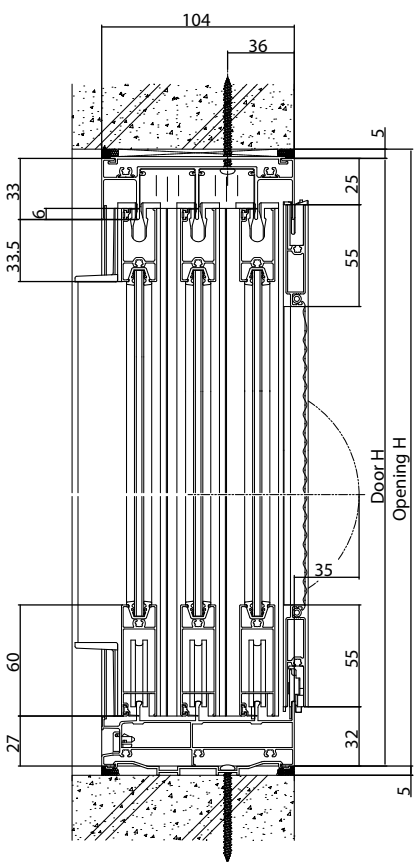
Horizontal section: Sliding door (4 panels on 2 tracks) with TR-X screen



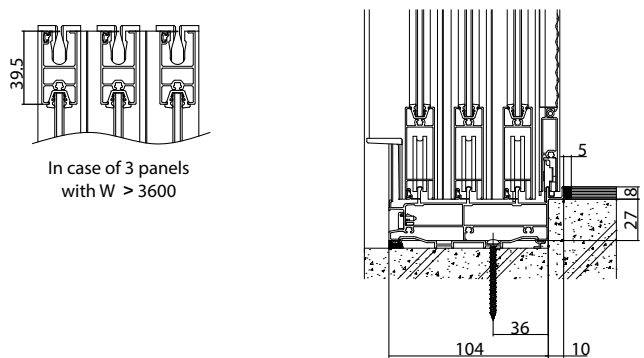
Horizontal section: Sliding door (SFS 3 panels on 2 tracks) with TR-X screen

# WE 70

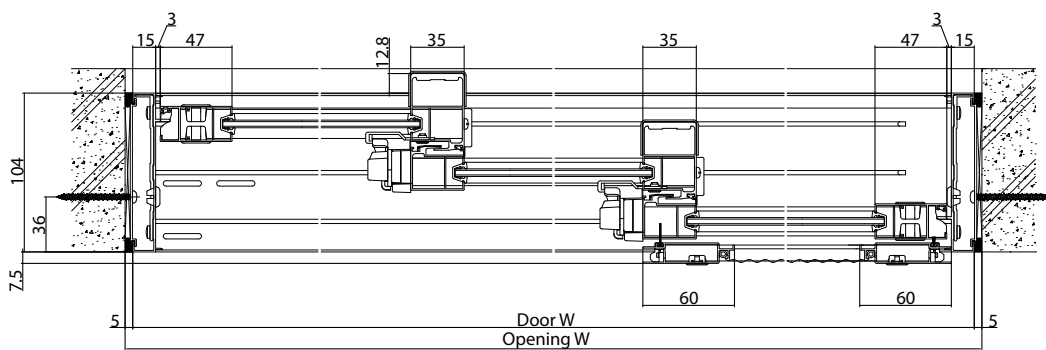
## SLIDING (3P3T, 6P3T)



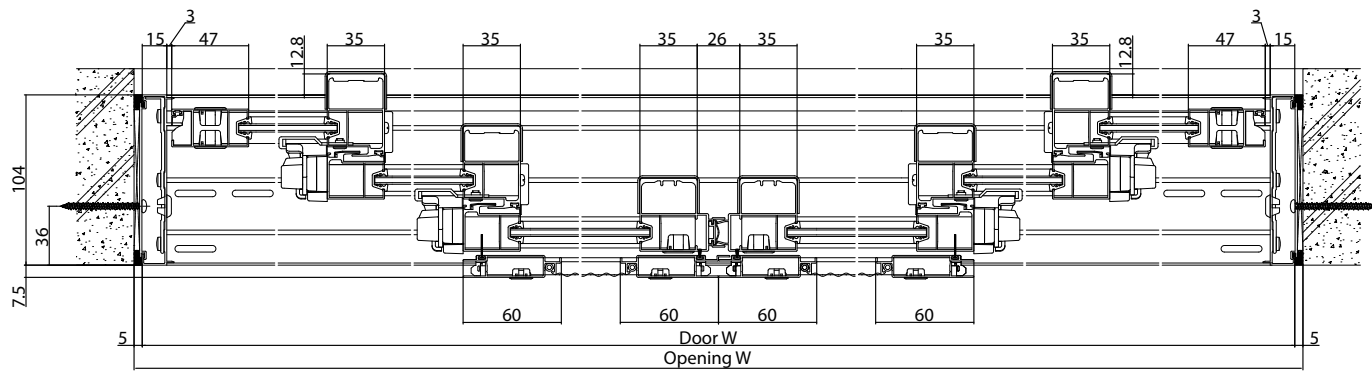
Vertical section: Sliding door (3 and 6 panels on 3 tracks) with TL-X screen



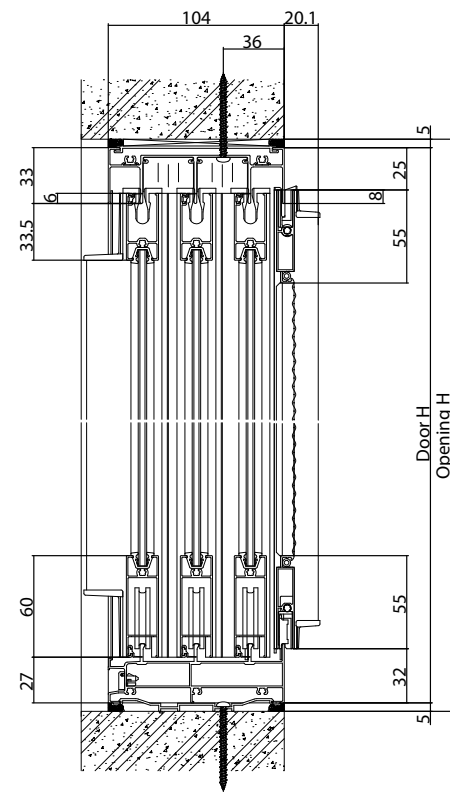
In case of floor finish sill



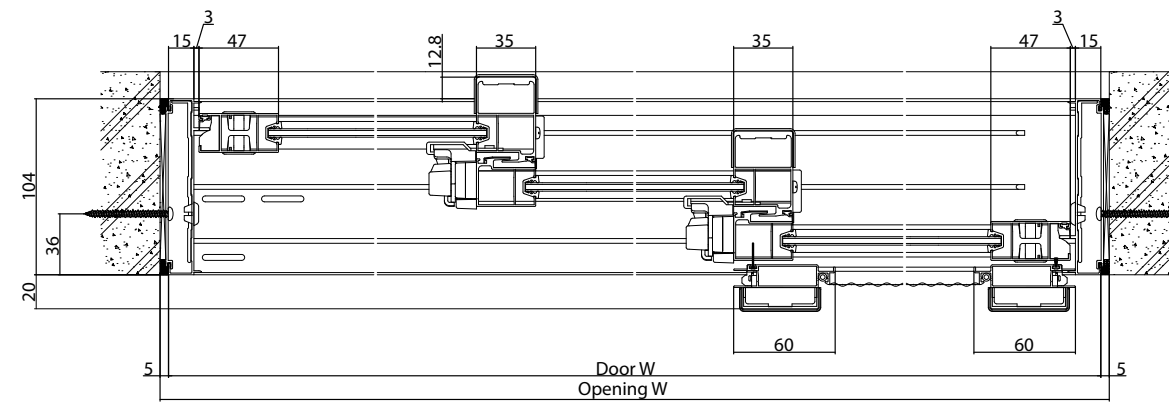
Horizontal section: Sliding door (3 panels on 3 tracks) with TL-X screen



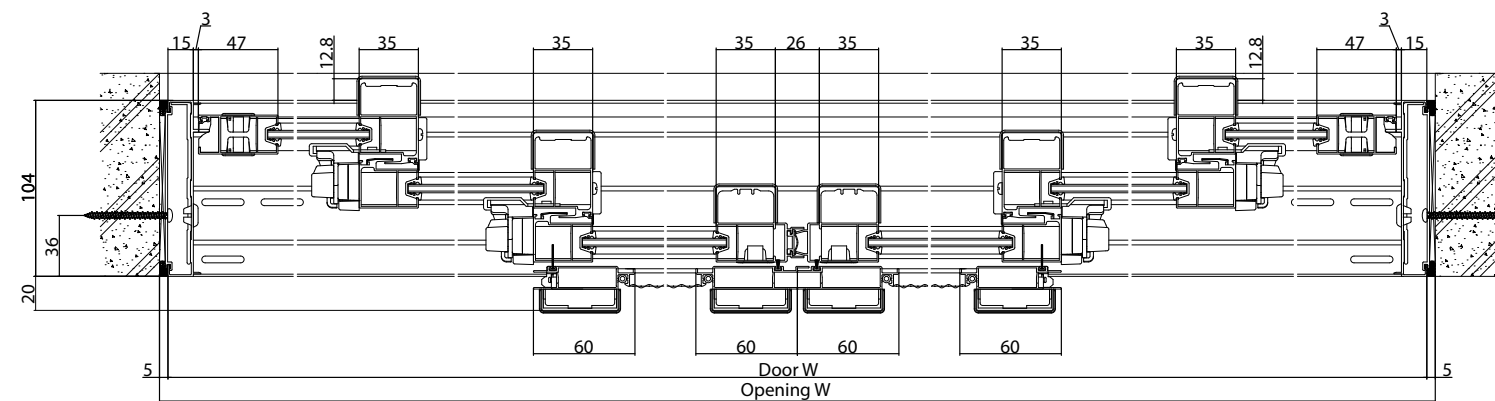
Horizontal section: Sliding door (6 panels on 3 tracks) with TL-X screen



Vertical section: Sliding door  
(3 and 6 panels on 3 tracks)  
with TR-X screen



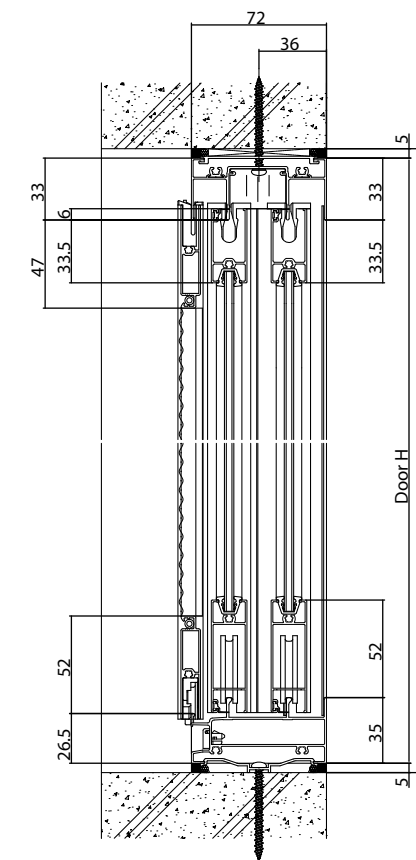
Horizontal section: Sliding door (3 panels on 3 tracks) with TR-X screen



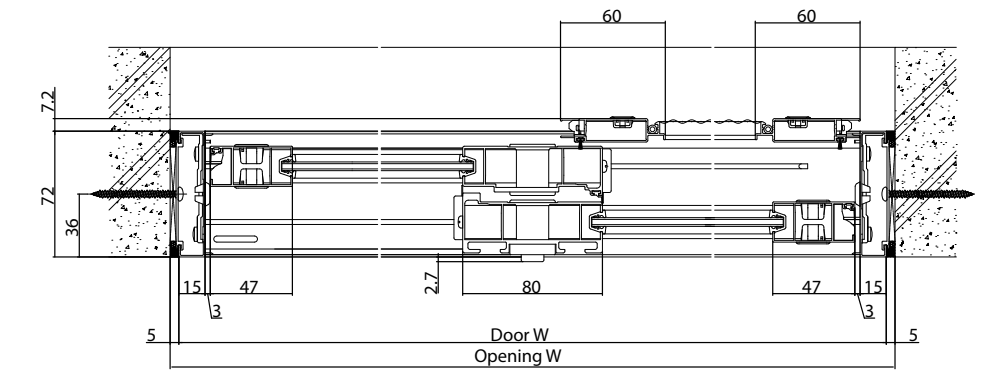
Horizontal section: Sliding door (6 panels on 3 tracks) with TR-X screen

## WE 70

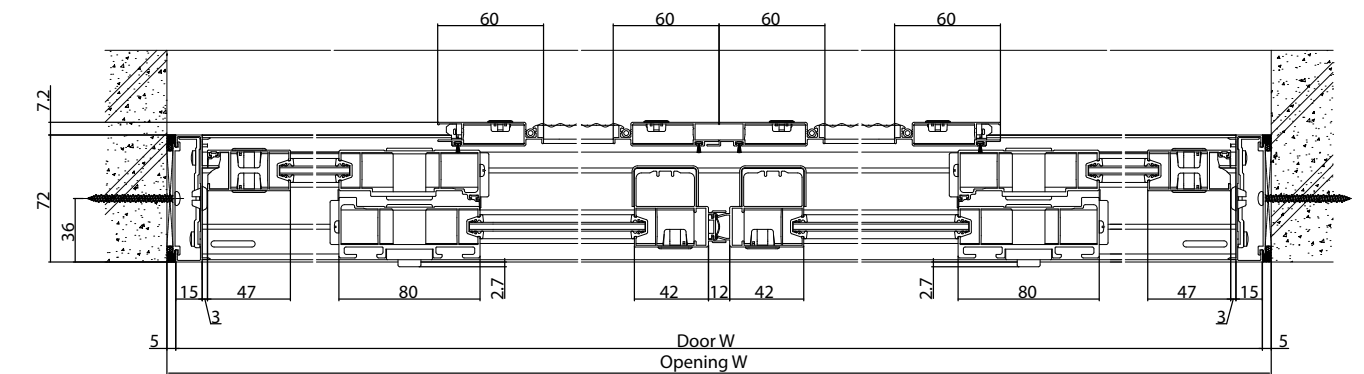
## ENTRANCE SLIDING (2P2T, 4P2T)



Vertical section: Entrance sliding door  
(2 and 4 panels on 2 tracks)  
with TL-X screen

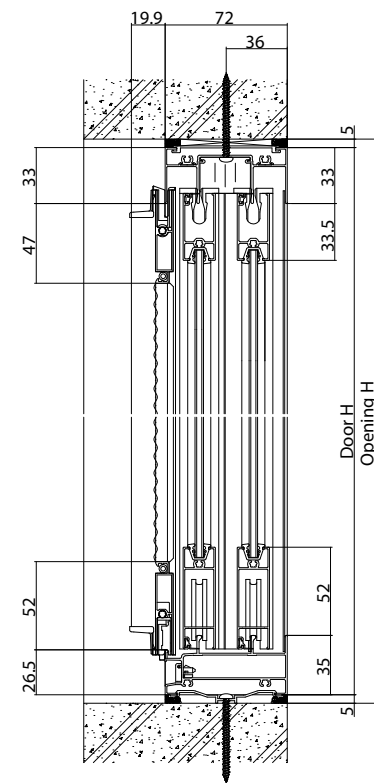


Horizontal section: Entrance sliding door (2 panels on 2 tracks) with TL-X screen

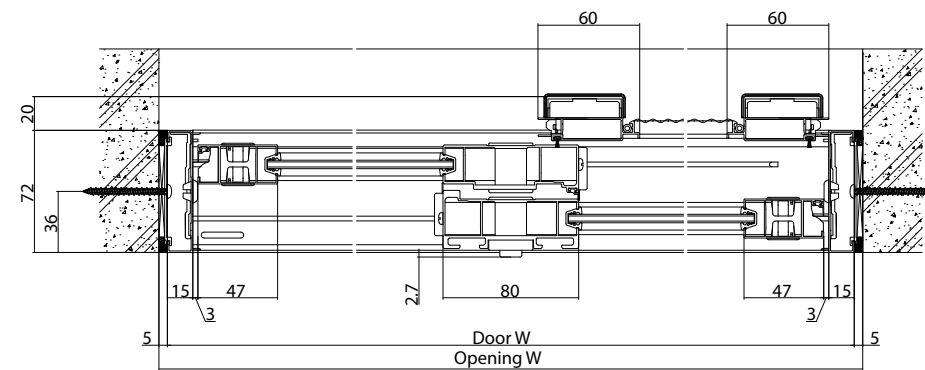


Horizontal section: Entrance sliding door (4 panels on 2 tracks) with TL-X screen

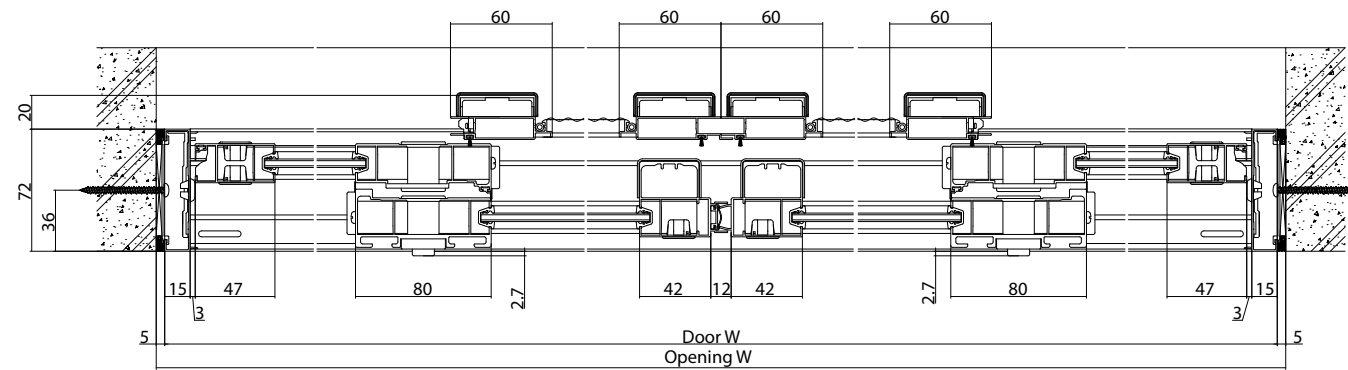




Vertical section: Entrance sliding door  
(2 and 4 panels on 2 tracks)  
with TR-X screen



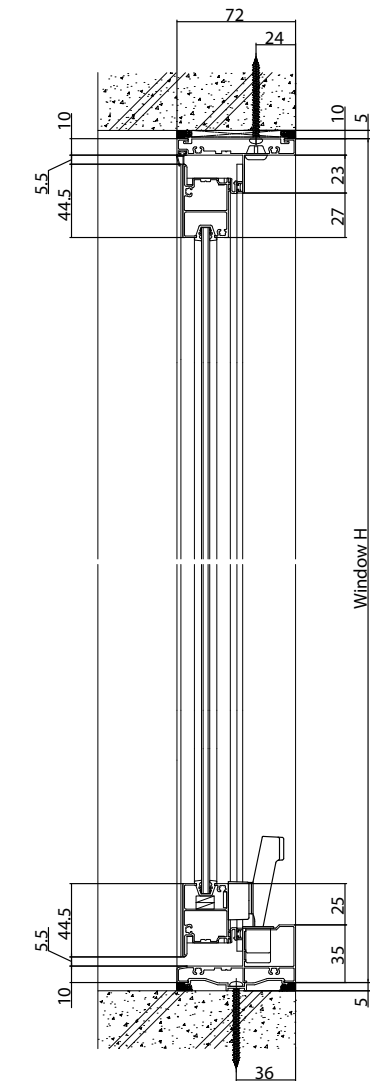
Horizontal section: Entrance sliding door (2 panels on 2 tracks) with TR-X screen



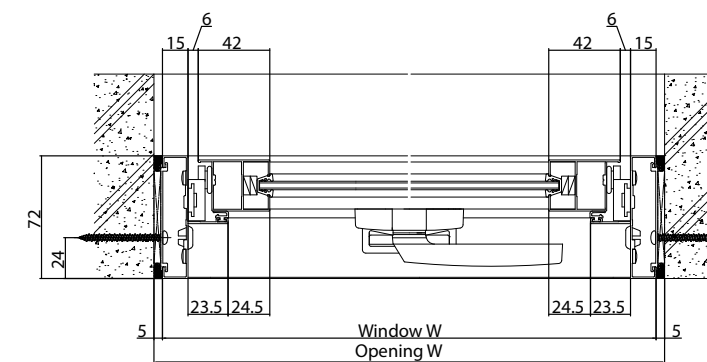
Horizontal section: Entrance sliding door (4 panels on 2 tracks) with TR-X screen

## WE 70

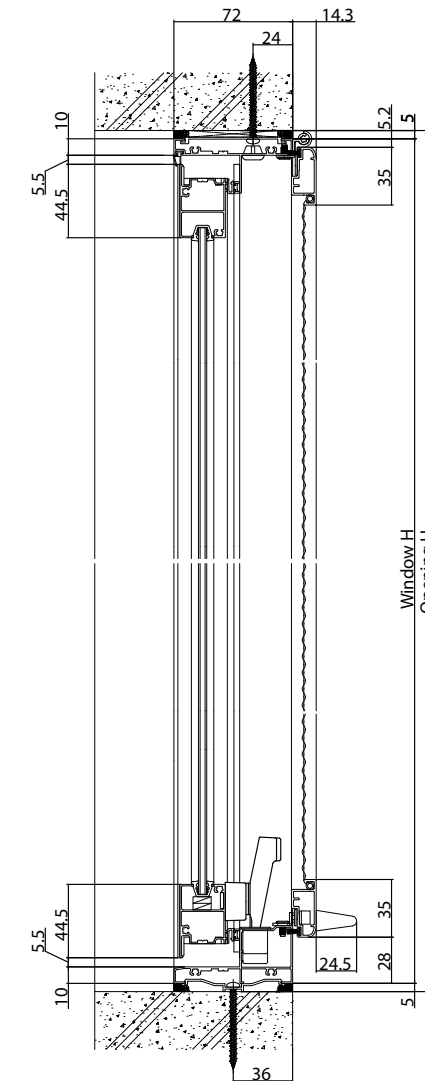
### AWNING WINDOW



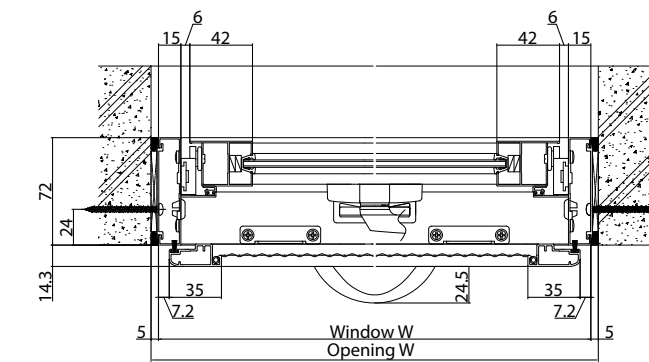
Vertical section: Awning window



Horizontal section: Awning window



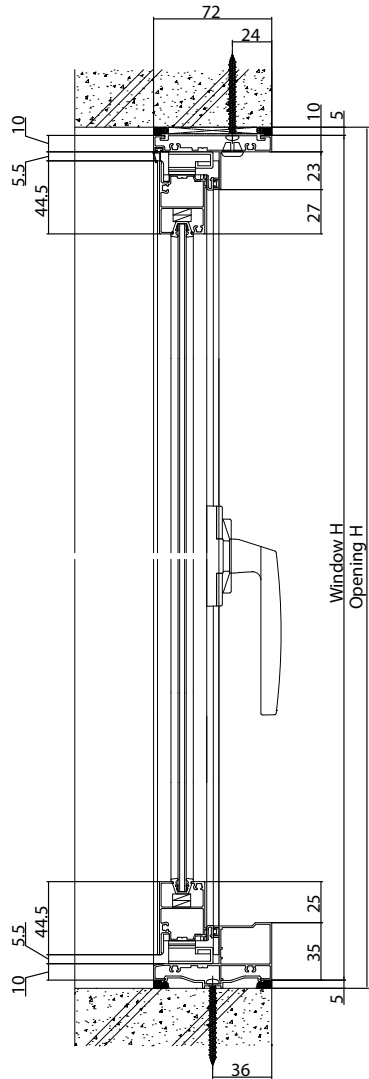
Vertical section: Awning window with screen



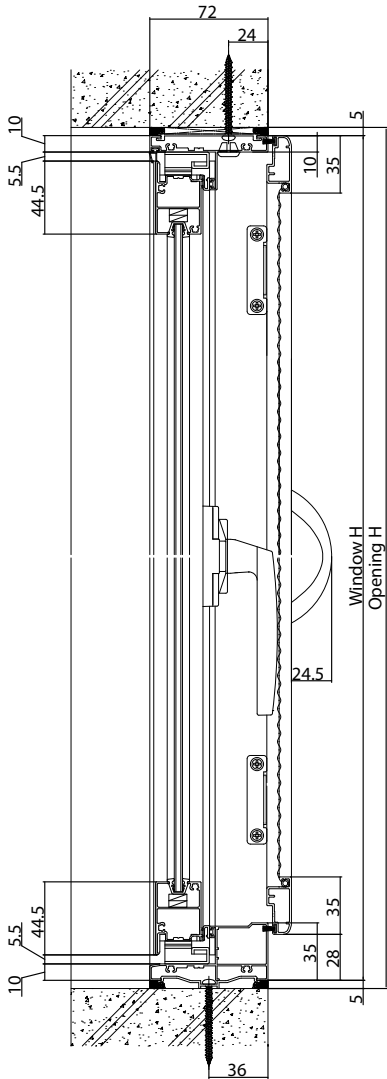
Horizontal section: Awning window with screen

# WE 70

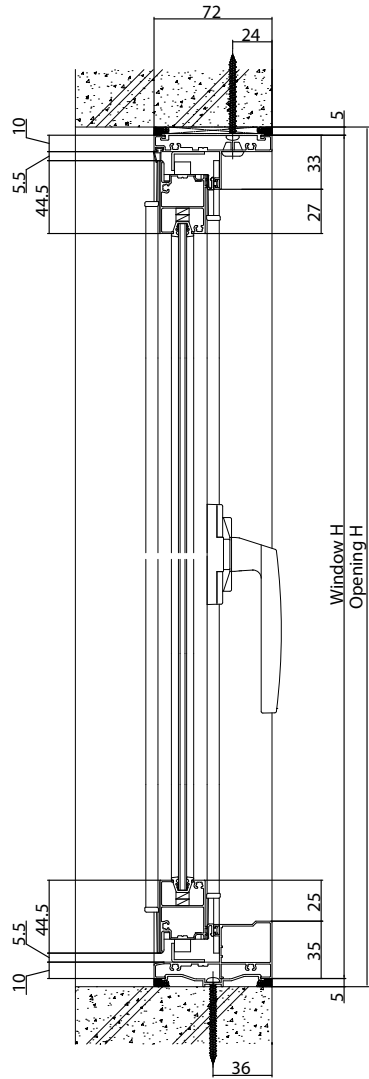
## CASEMENT WINDOW



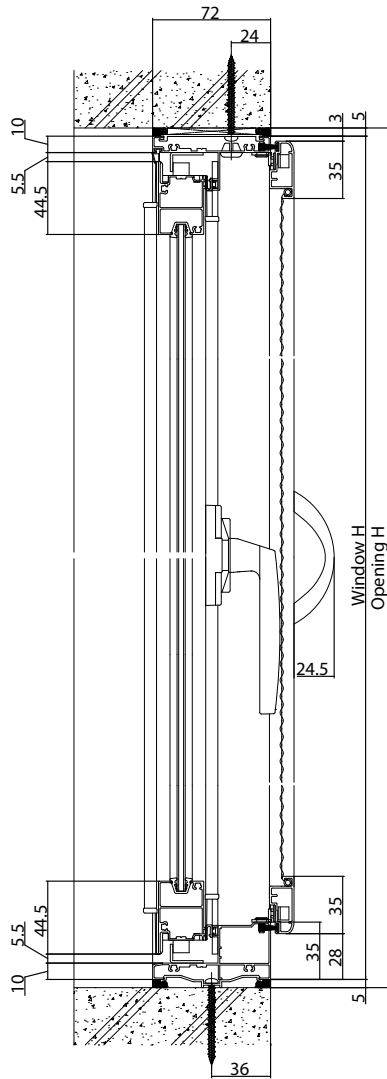
Vertical section: Casement window



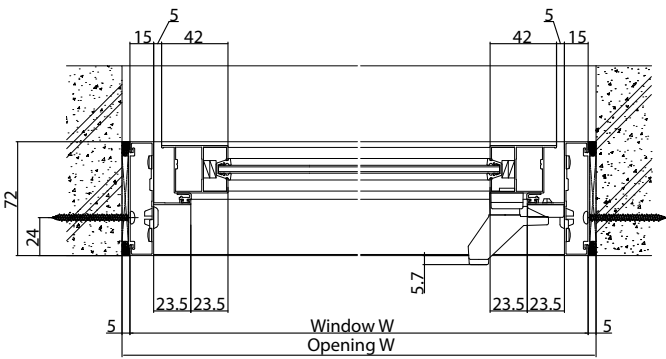
Vertical section: Casement window with screen



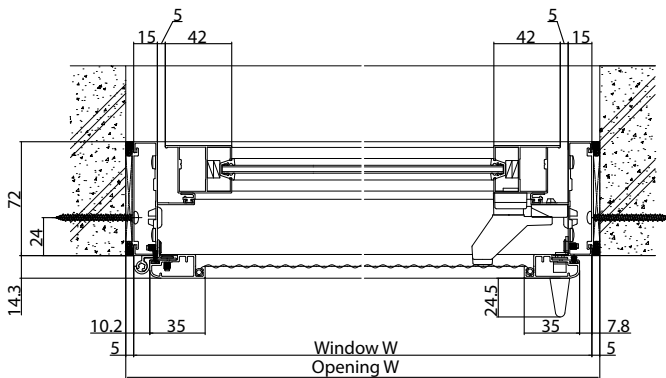
Vertical section: Double Casement window



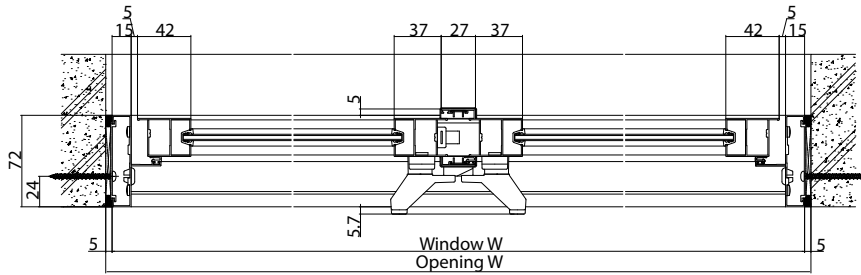
Vertical section: Double Casement window with screen



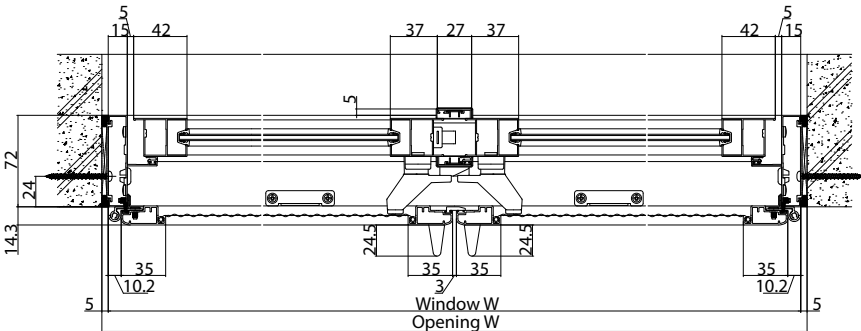
Horizontal section: Casement window



Horizontal section: Casement window with screen



Horizontal section: Double Casement window

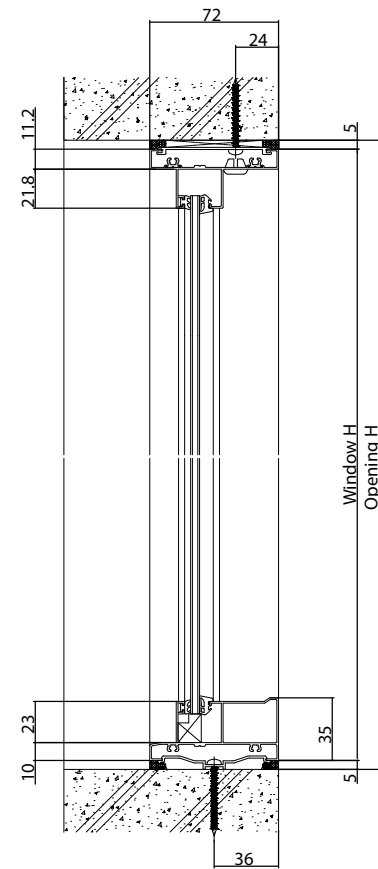


Horizontal section: Double Casement window with screen

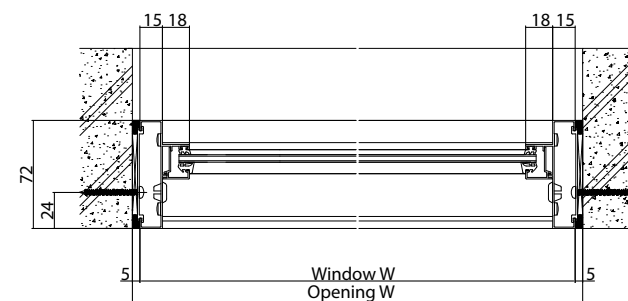


## WE 70

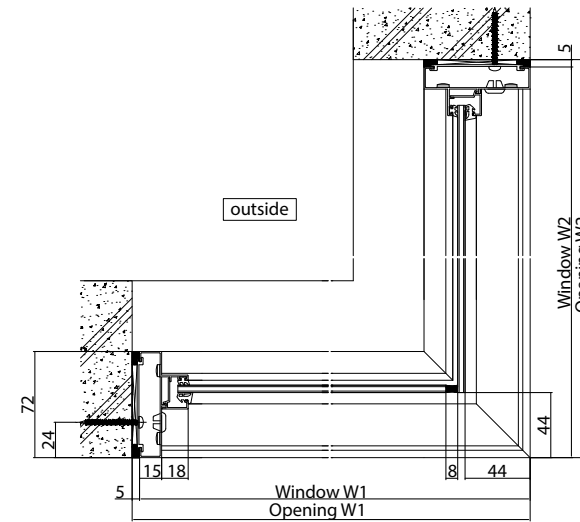
## FIXED WINDOW



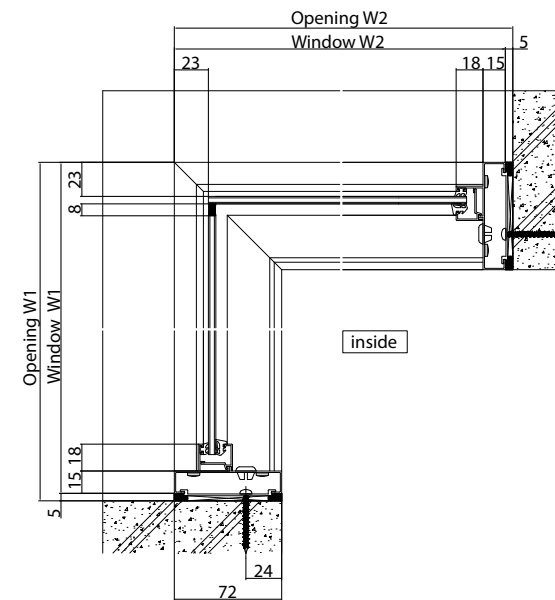
Vertical section: Single and corner fixed



Horizontal section: Single fixed



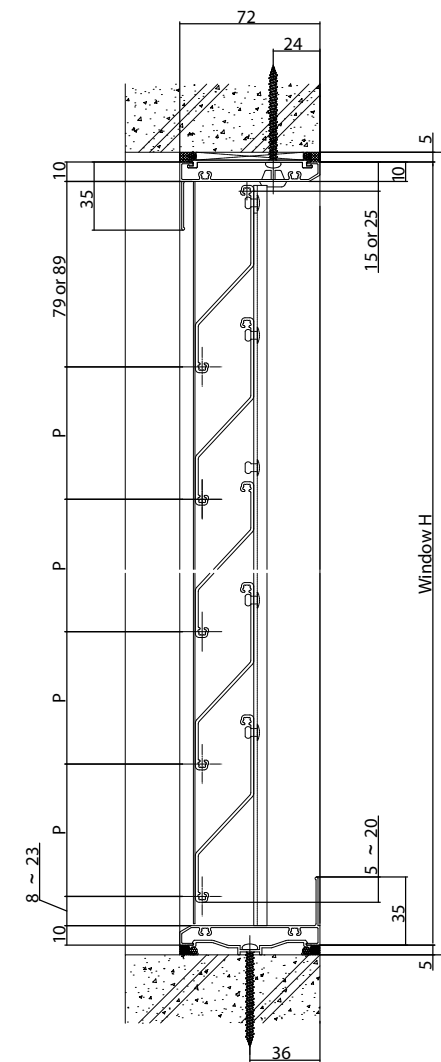
Horizontal section: Inward fixed



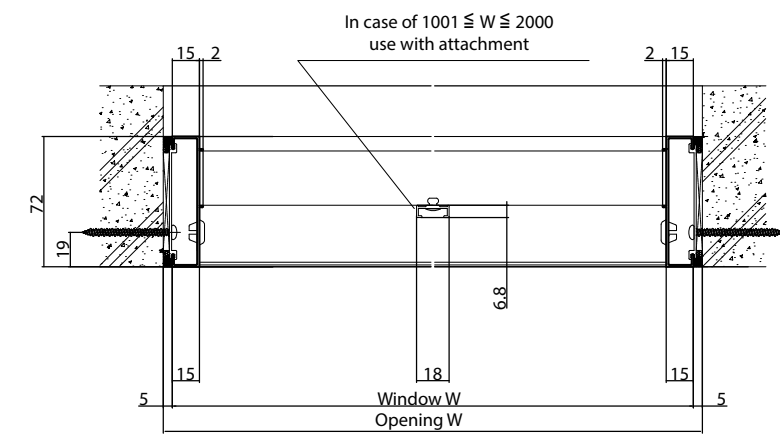
Horizontal section: Outward fixed

## WE 70

## ALUMINUM LOUVER



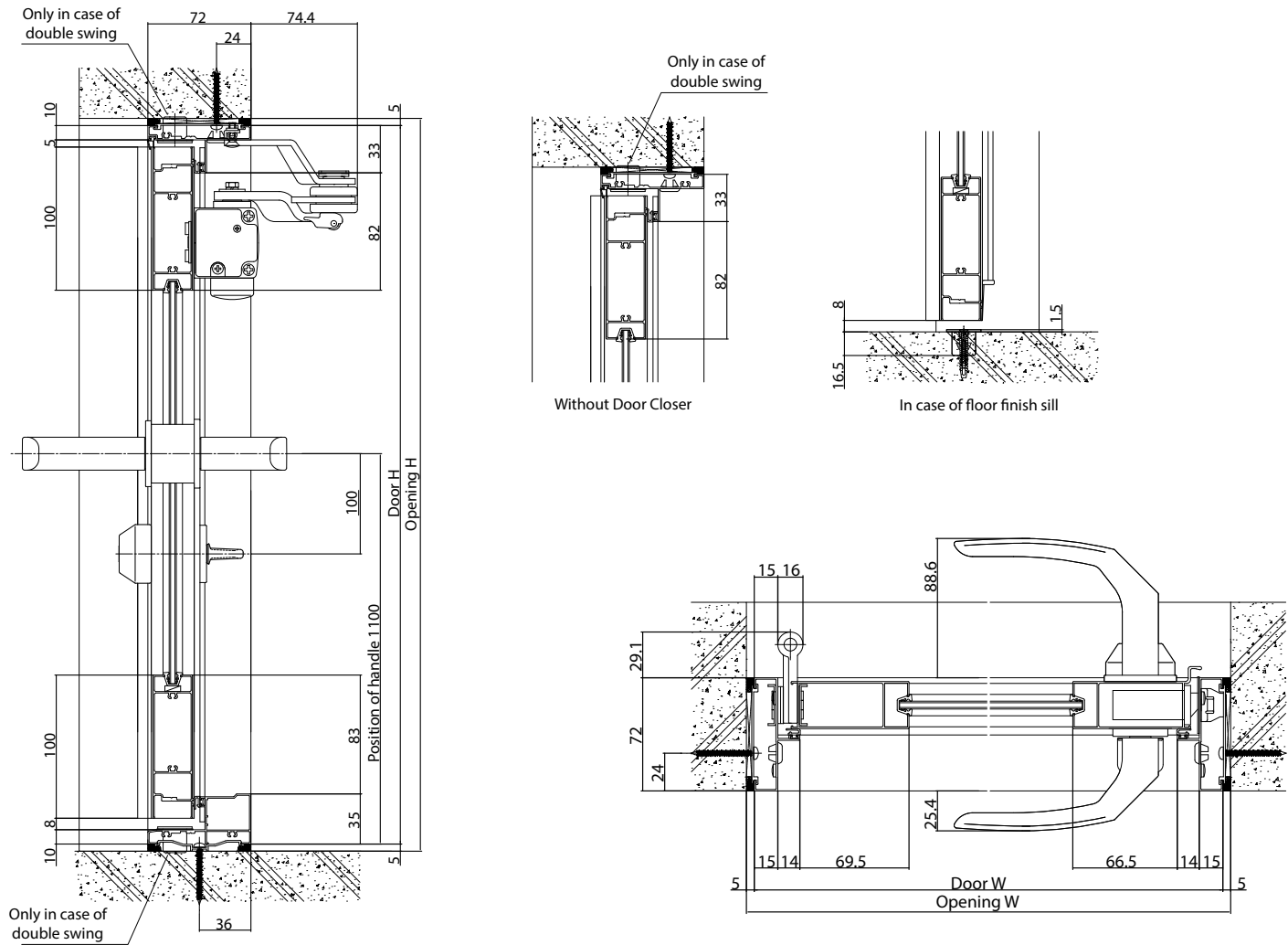
Vertical section: Aluminum louver



Horizontal section: Aluminum louver

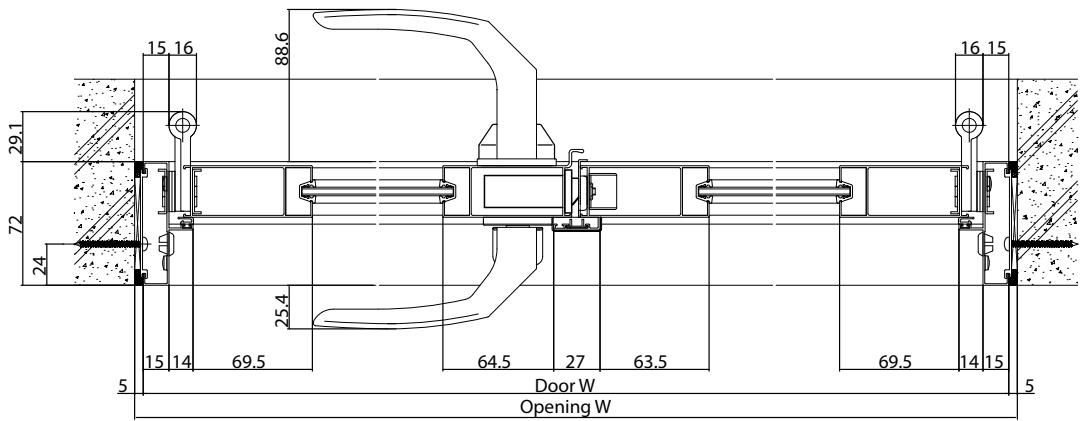
# WE 70

## OUT-SWING & IN-SWING DOOR

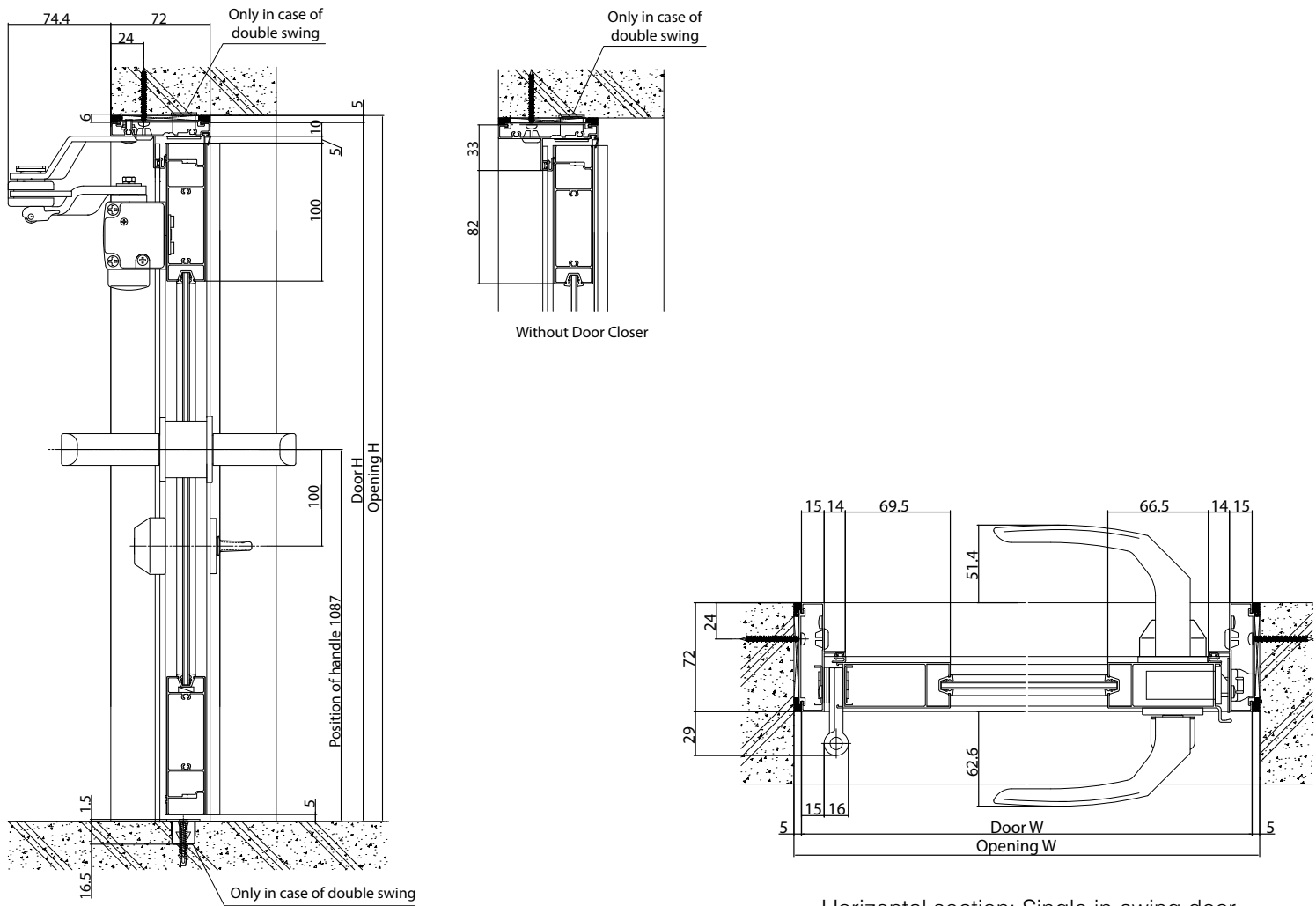


Vertical section: Single & Double out-swing door with sill

Horizontal section: Single out-swing door

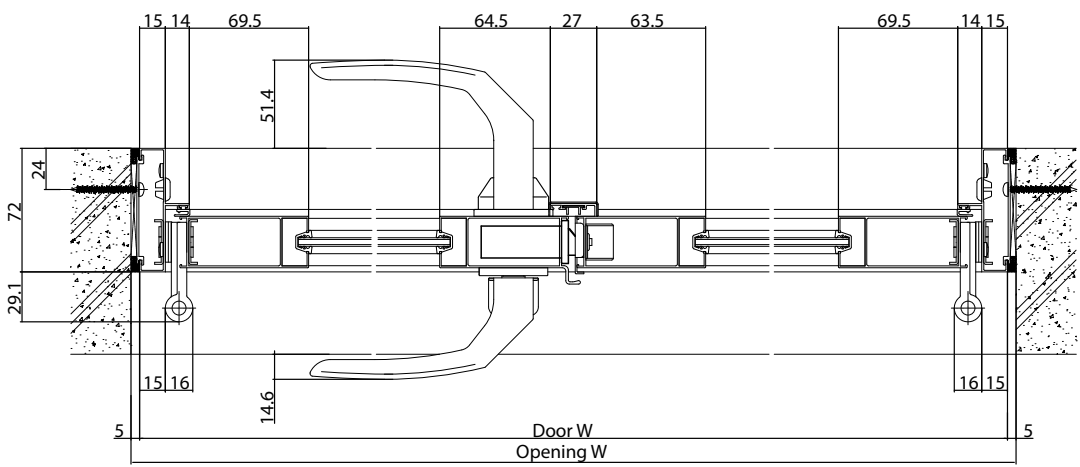


Horizontal section: Double out-swing door



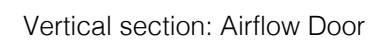
Vertical section: Single & Double in-swing door

Horizontal section: Single in-swing door



Horizontal section: Double in-swing door

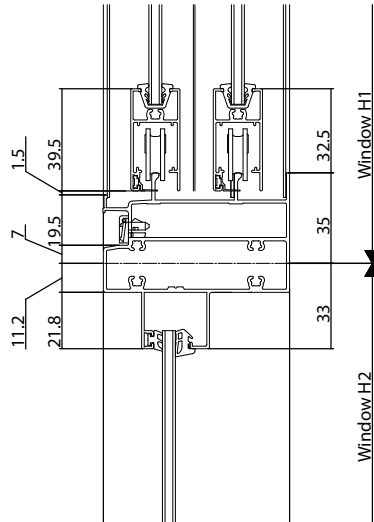
## AIRFLOW DOOR



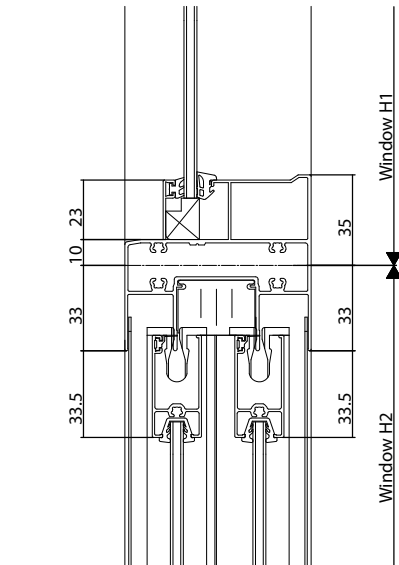


# WE 70

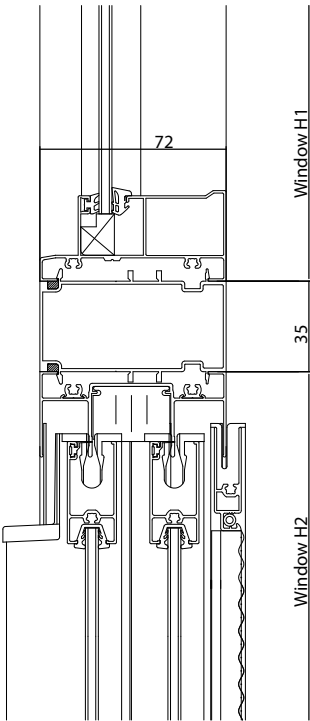
## TRANSOM & MULLION



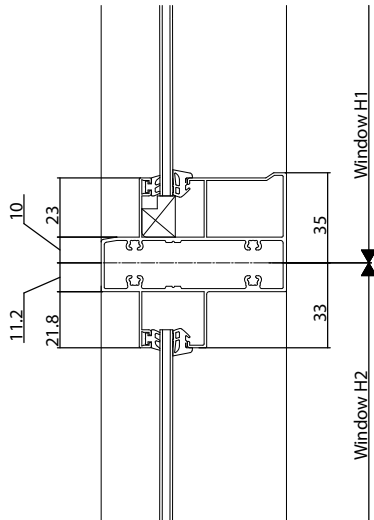
Vertical section: Sliding/Fixed transom



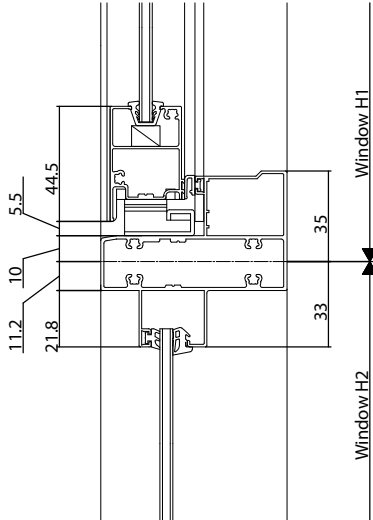
Vertical section: Fixed/Sliding transom



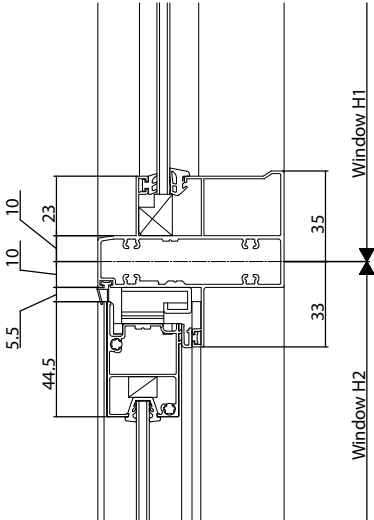
Transom



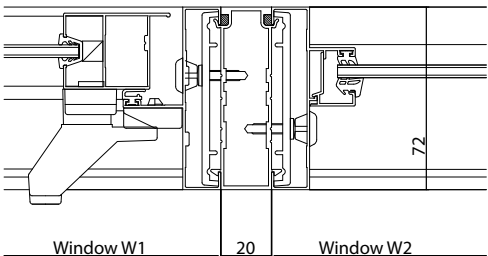
Vertical section: Fixed/Fixed transom



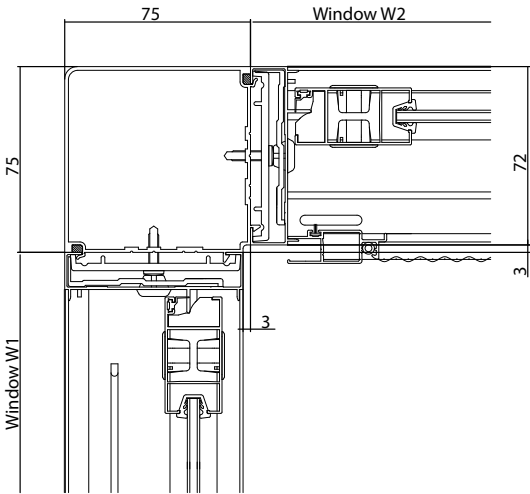
Vertical section: Projection/Fixed transom



Vertical section: Fixed/Projection transom



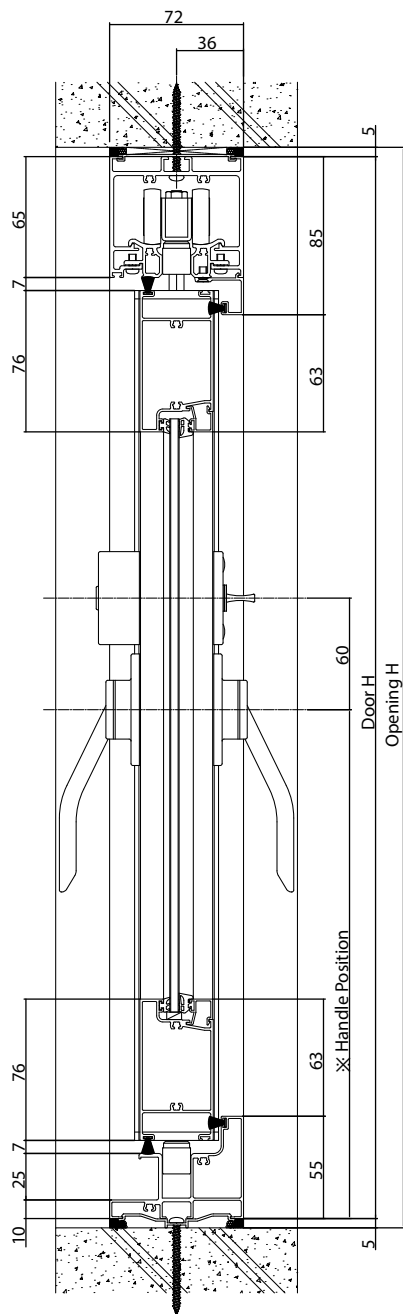
Mullion



Corner mullion

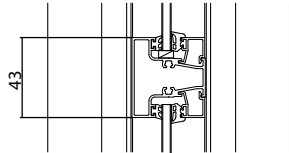
# WE 70

## FOLDING DOOR

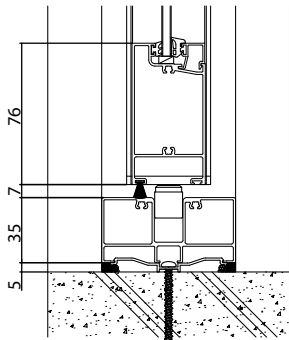


Vertical section: Folding Door

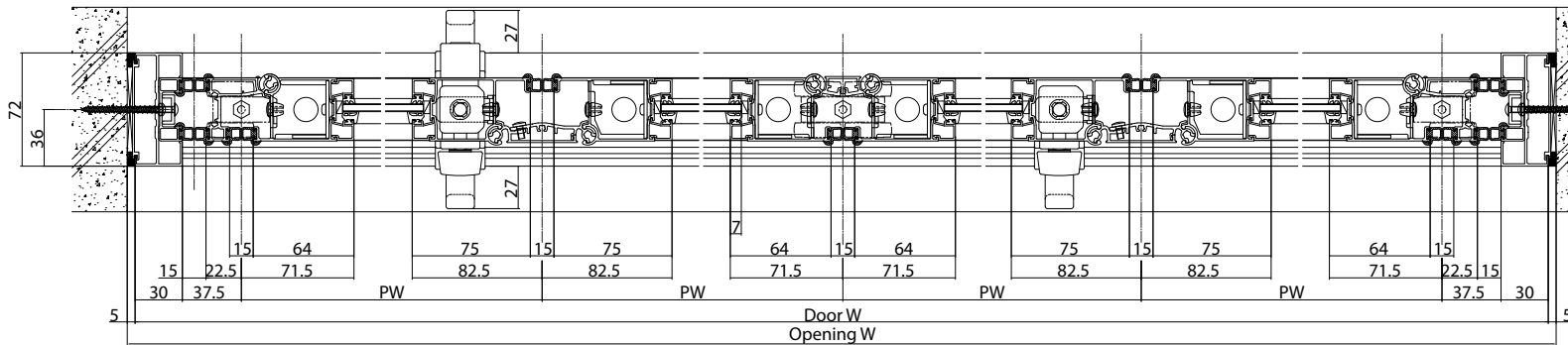
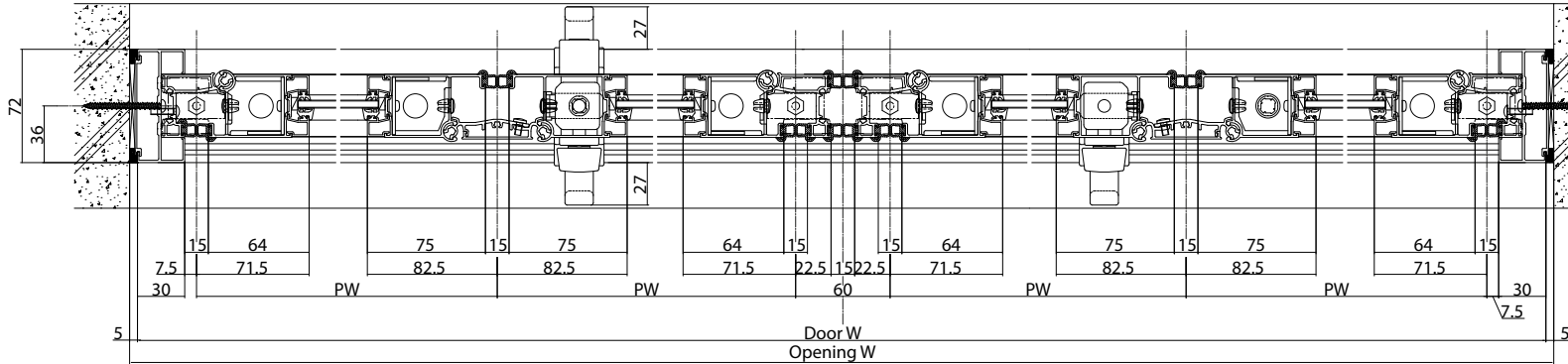
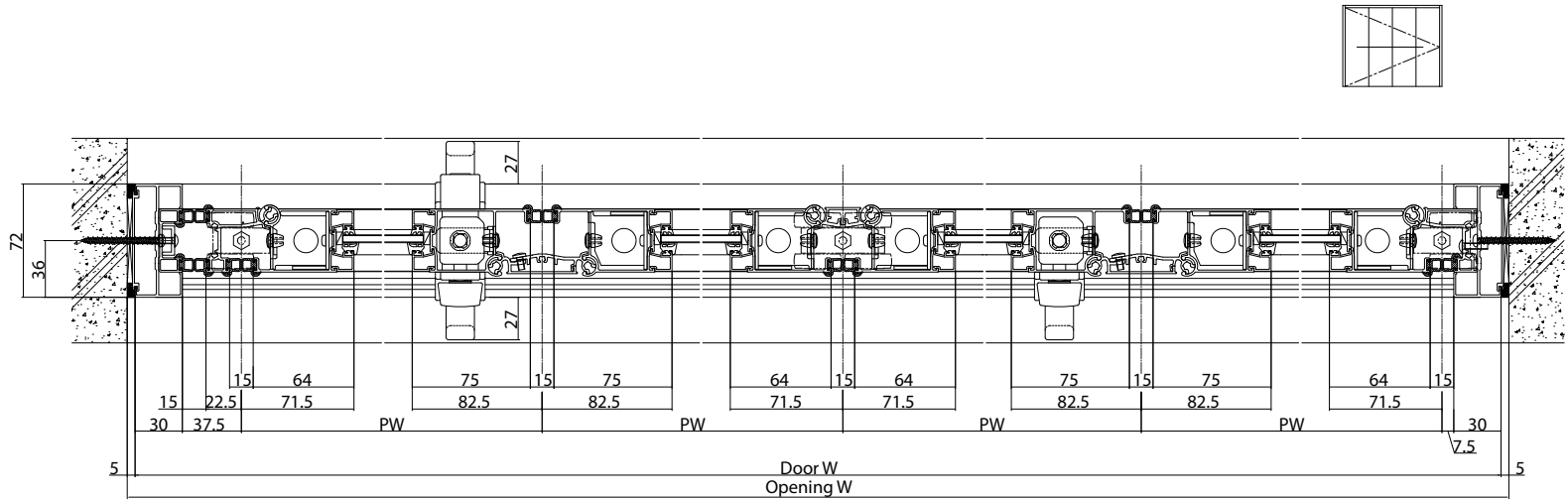
	※Handle Position
H > 1600	1100
H ≤ 1600	H/2-15



In case of with middle bar



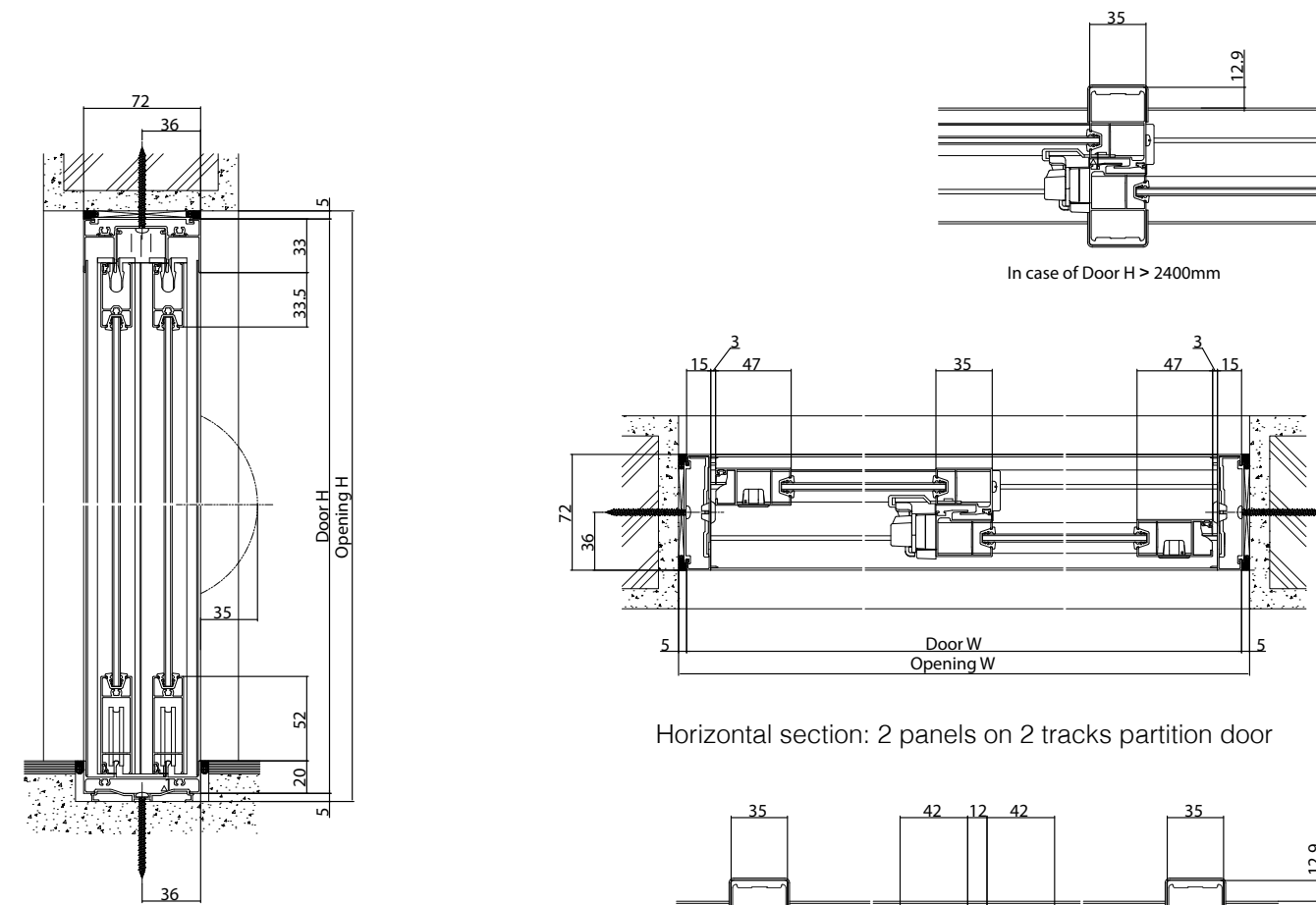
In case of flat sill



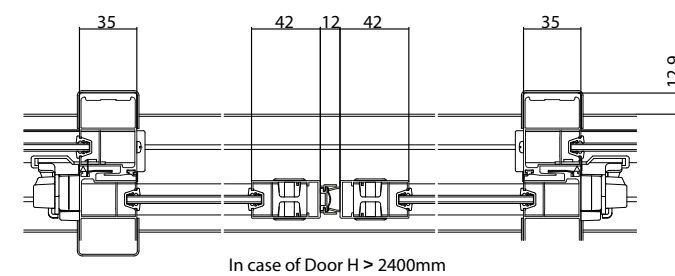
Horizontal section: Folding Door

## WE 70

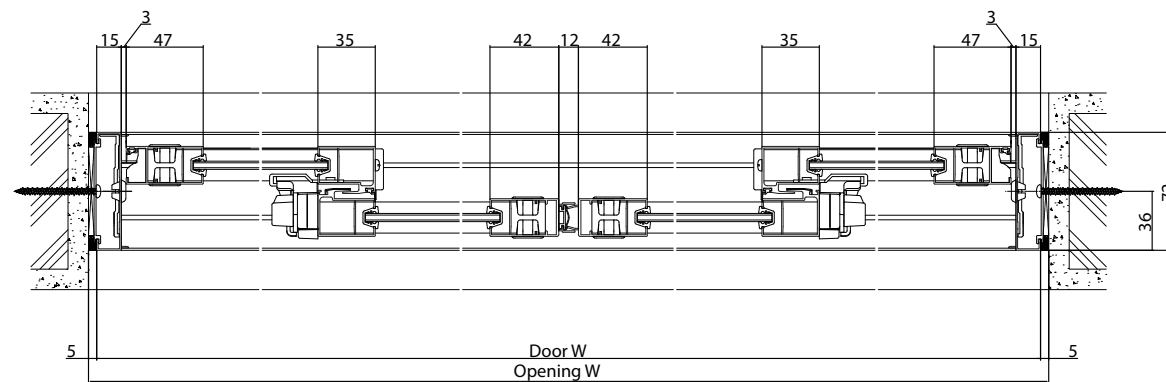
## PARTITION DOOR (2P2T, 4P2T)

Vertical section: 2 and 4 panels  
on 2 tracks partition door

Horizontal section: 2 panels on 2 tracks partition door



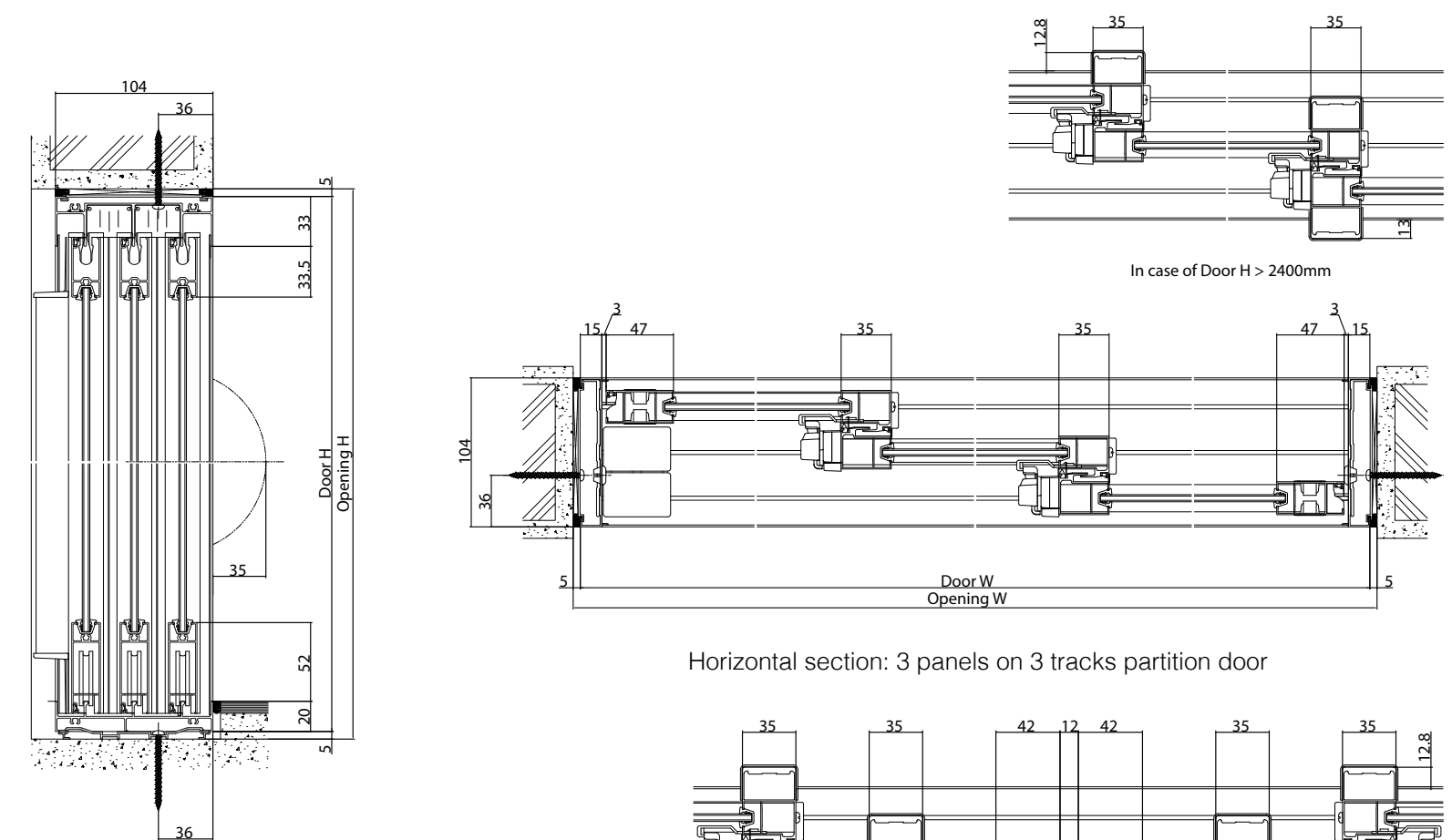
In case of Door H &gt; 2400mm



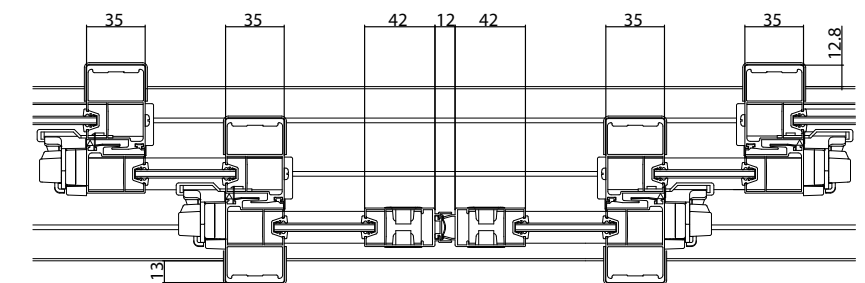
Horizontal section: 4 panels on 2 tracks partition door

## WE 70

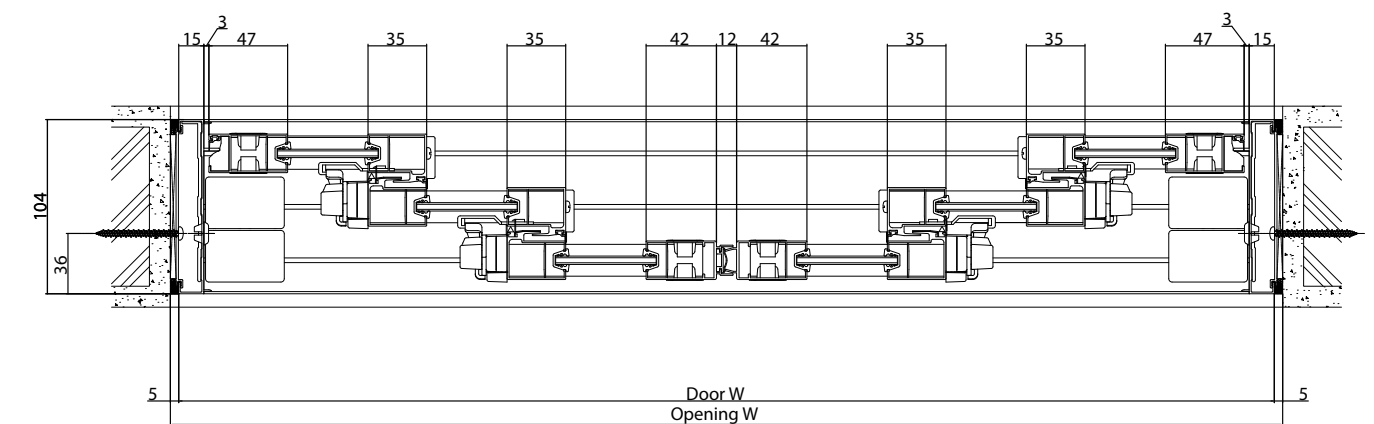
## PARTITION DOOR (3P3T, 6P3T)

Vertical section: 3 and 6 panels  
on 3 tracks partition door

Horizontal section: 3 panels on 3 tracks partition door



In case of H &gt; 2400mm

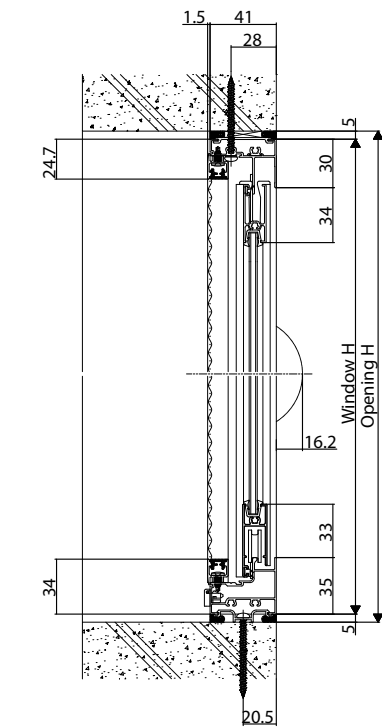


Horizontal section: 6 panels on 3 tracks partition door

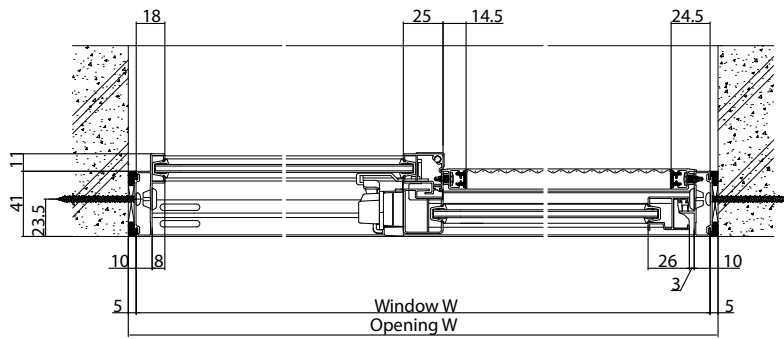


WE 40

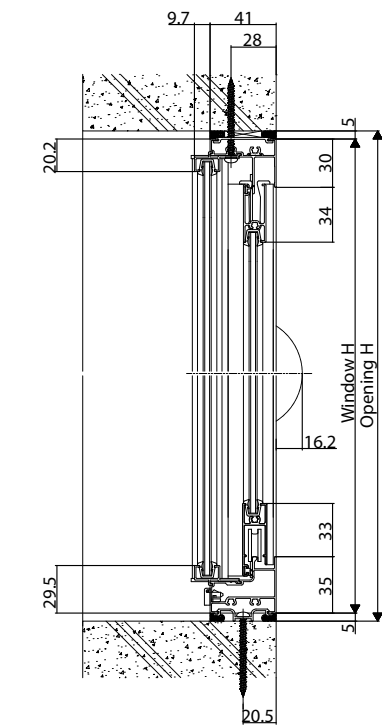
SLIDING WINDOW



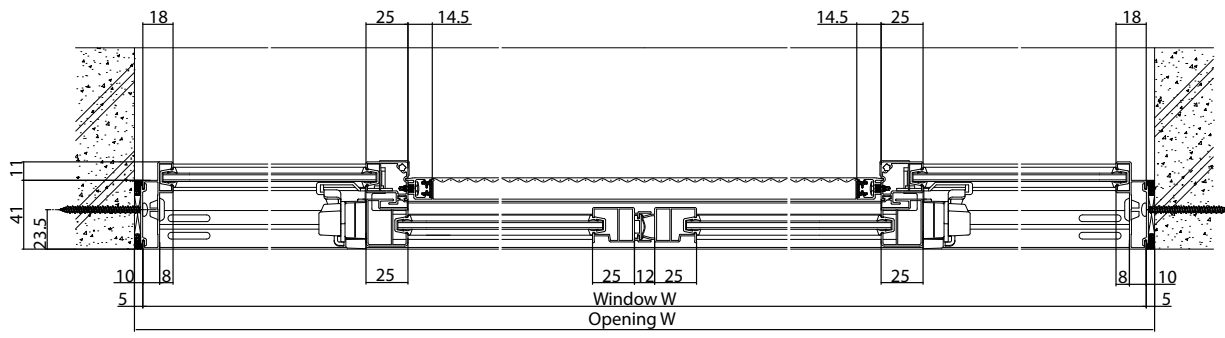
Vertical section: Single sliding (screen side)



Horizontal section: Single sliding window



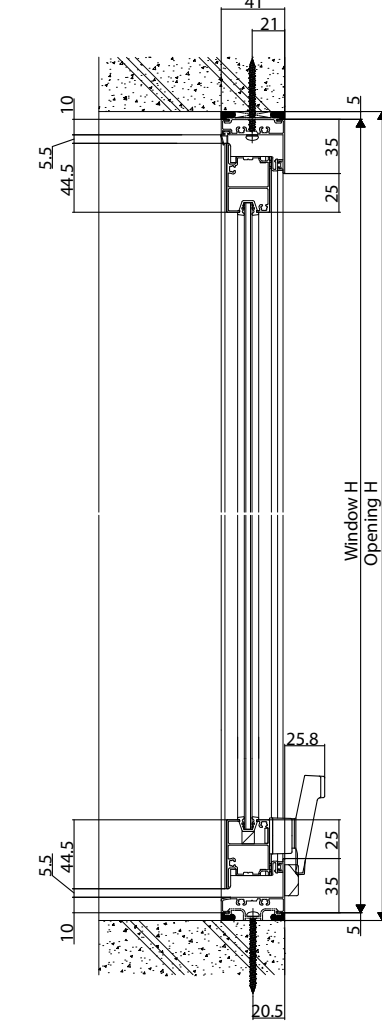
Vertical section: Single sliding window (panel side)



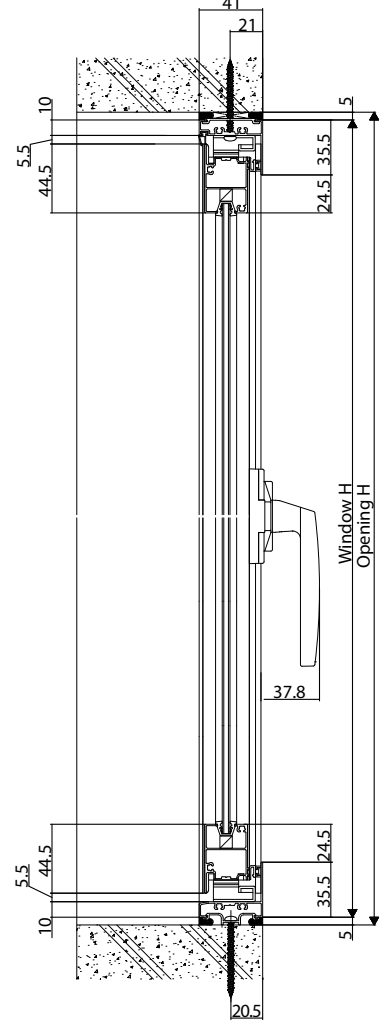
Horizontal section: Center sliding window

WE 40

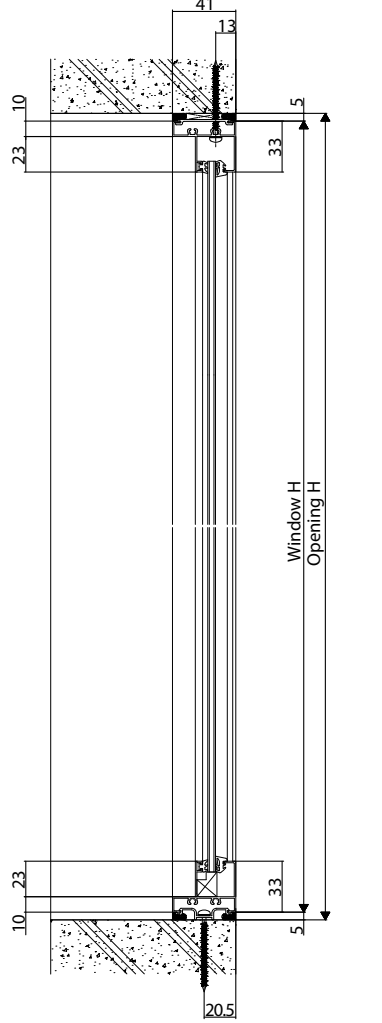
AWNING, CASEMENT, FIXED WINDOW



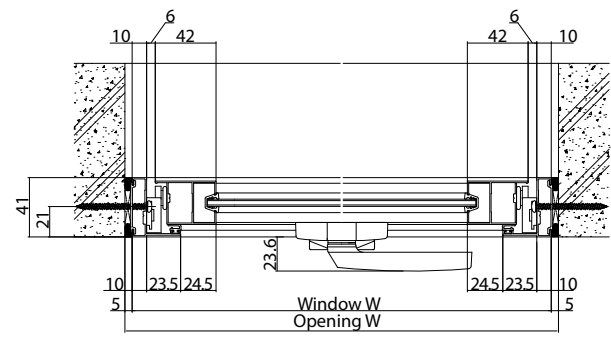
Vertical section: Awning window



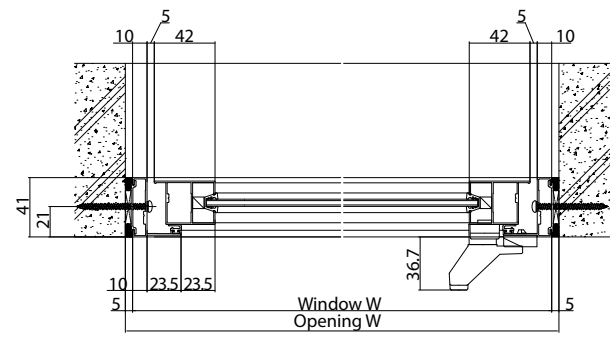
Vertical section: Casement window



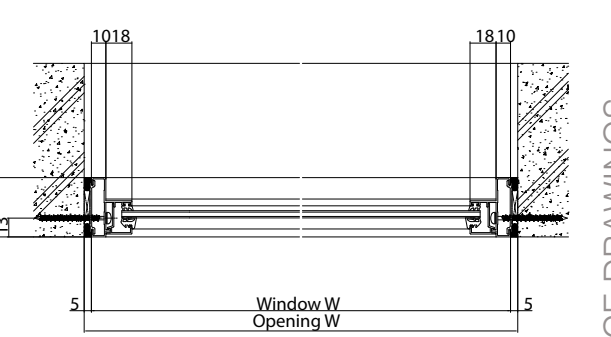
Vertical section: Fixed window



Horizontal section: Awning window

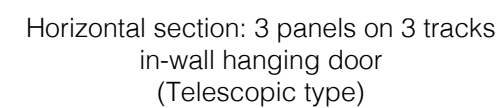
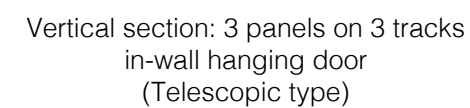


Horizontal section: Casement window

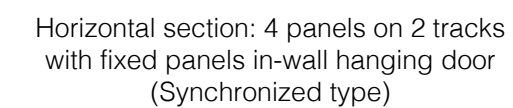
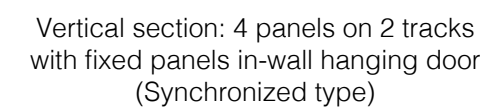


Horizontal section: Fixed window

## HANGING DOOR (3P3T) - TELESCOPIC TYPE

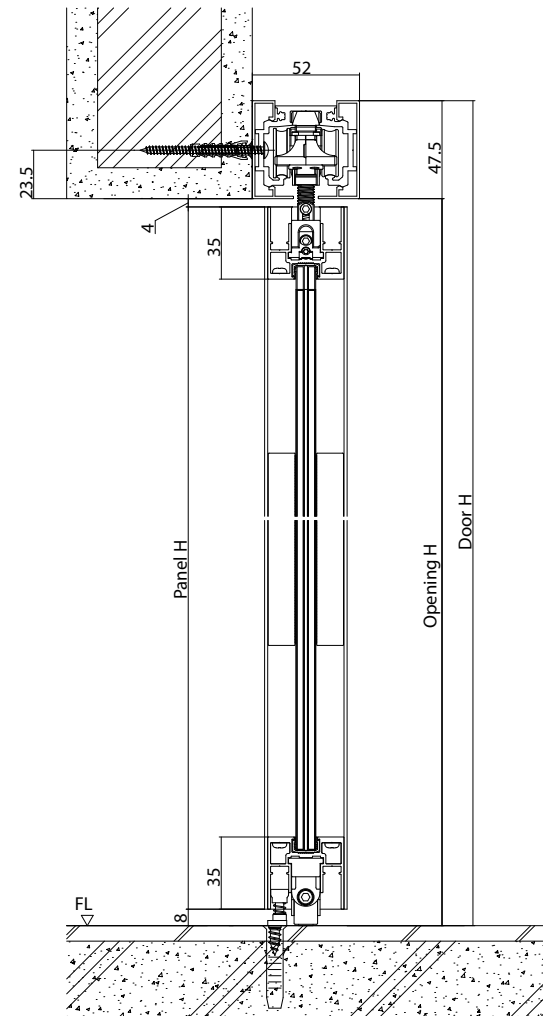


## HANGING DOOR (4P2T) - SYNCHRONIZED TYPE

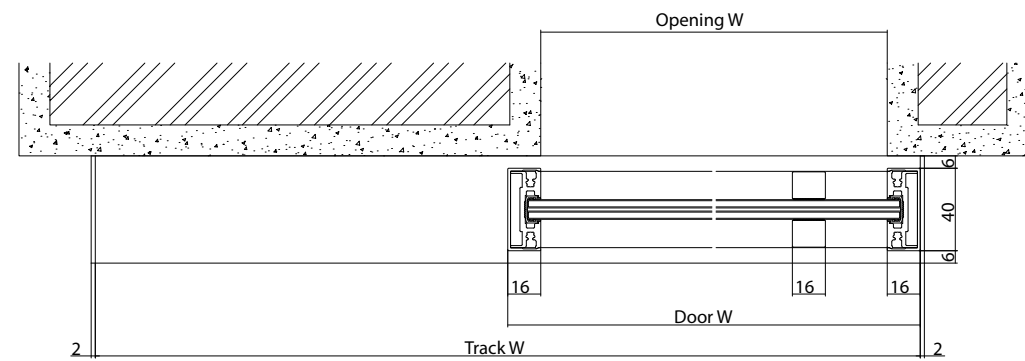


## IN16

## HANGING DOOR (1P1T) - DETACHED TYPE



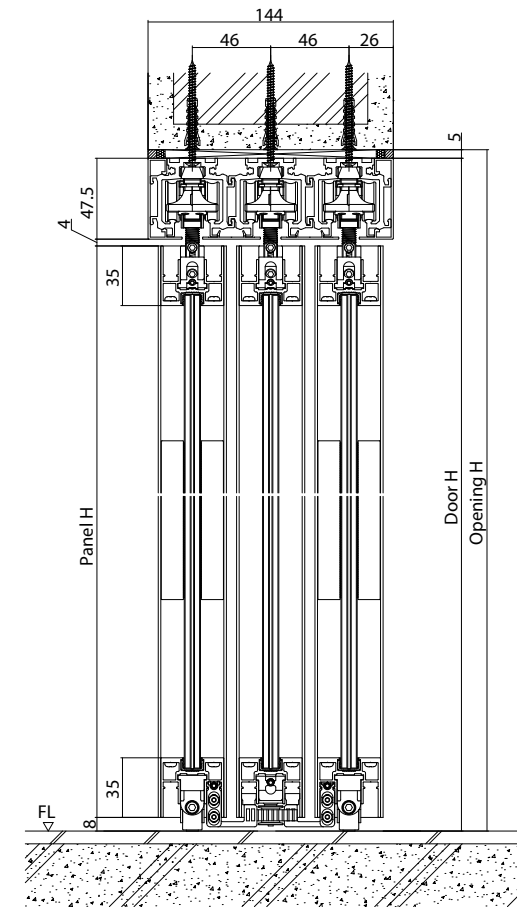
Vertical section: 1 panel on 1 track  
On-wall Hanging door  
(Detached type)



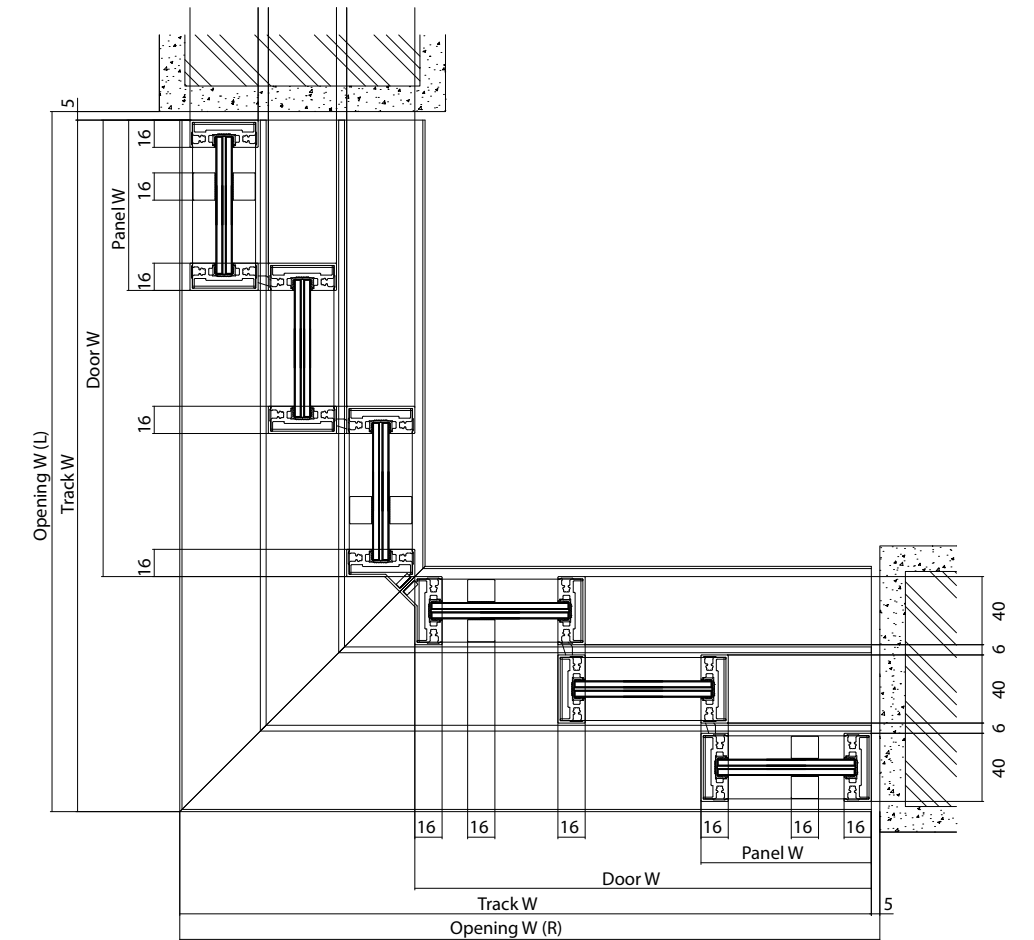
Horizontal section: 1 panel on 1 track  
On-wall Hanging door  
(Detached type)

## IN16

## CORNER HANGING DOOR (3P3T) - TELESCOPIC TYPE



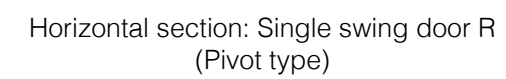
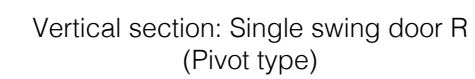
Vertical section: 3 panels on 3 tracks  
in-wall corner hanging door  
(Telescopic type)



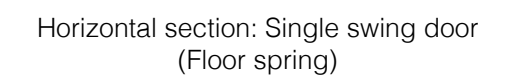
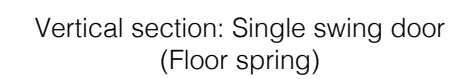
Horizontal section: 3 panels on 3 tracks  
in-wall corner hanging door  
(Telescopic type)



## SWING DOOR - PIVOT TYPE

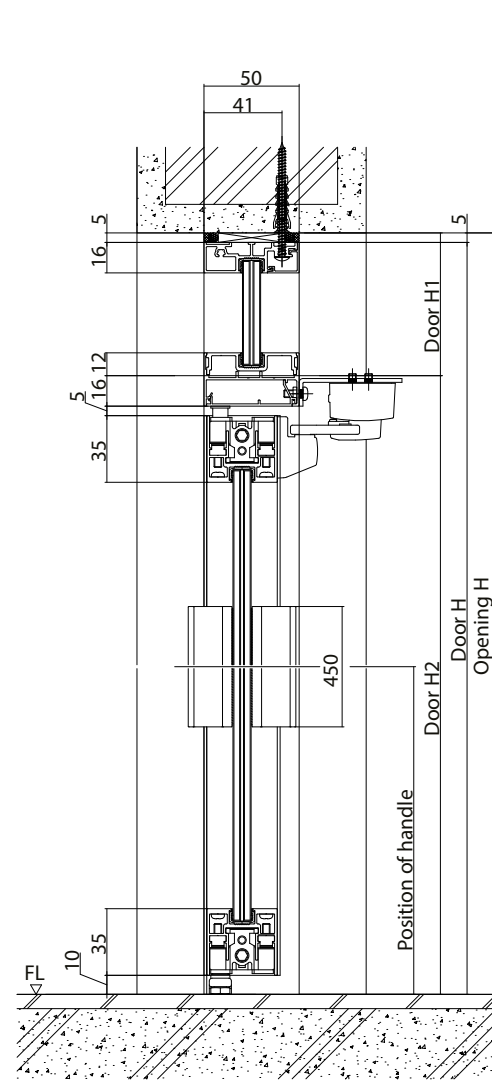


## SWING DOOR - FLOOR SPRING TYPE

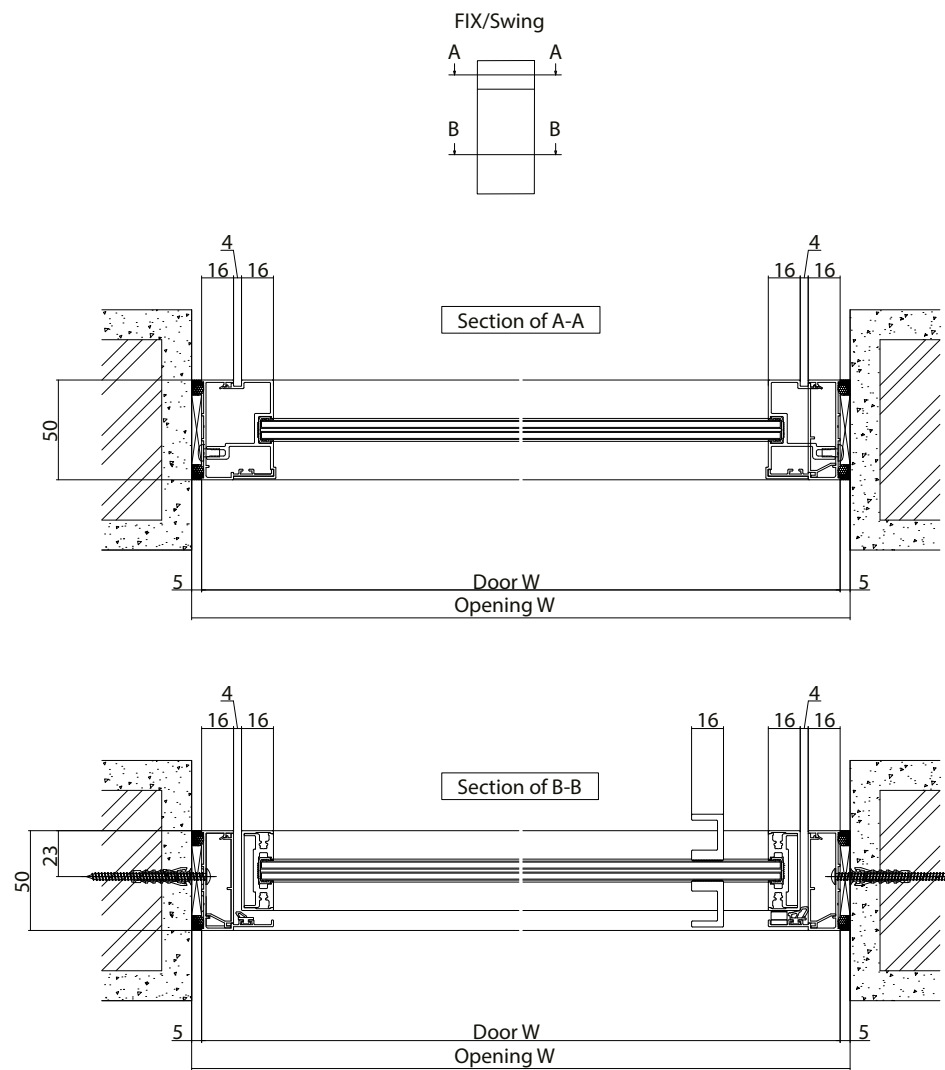


## IN16

## SWING DOOR WITH TOP FIX - PIVOT TYPE



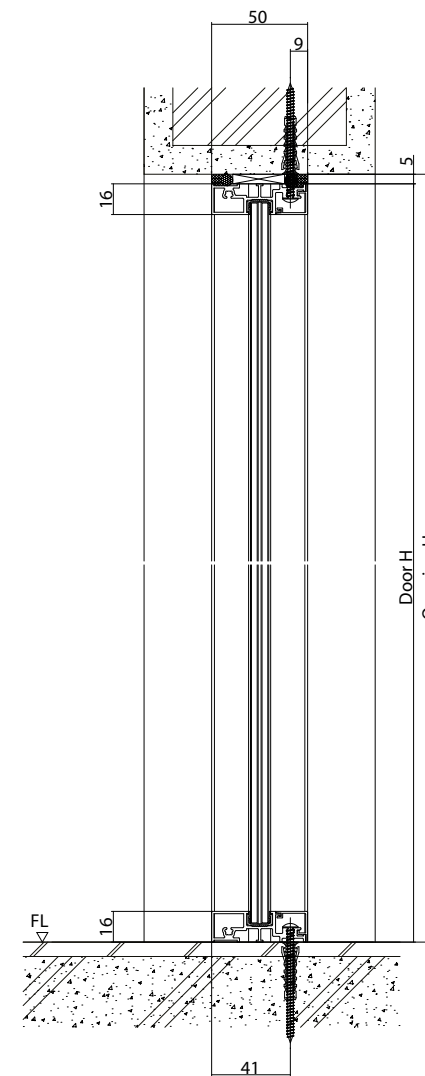
Vertical section: Swing door R  
(Pivot hinge) with top FIX



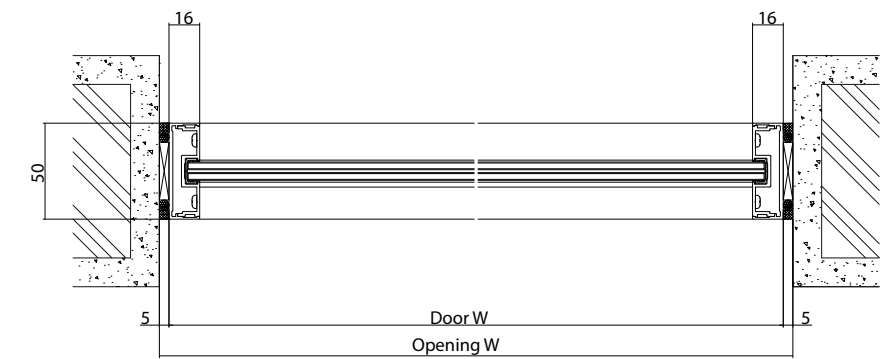
Horizontal section: Swing door R  
(Pivot hinge) with top FIX

## IN16

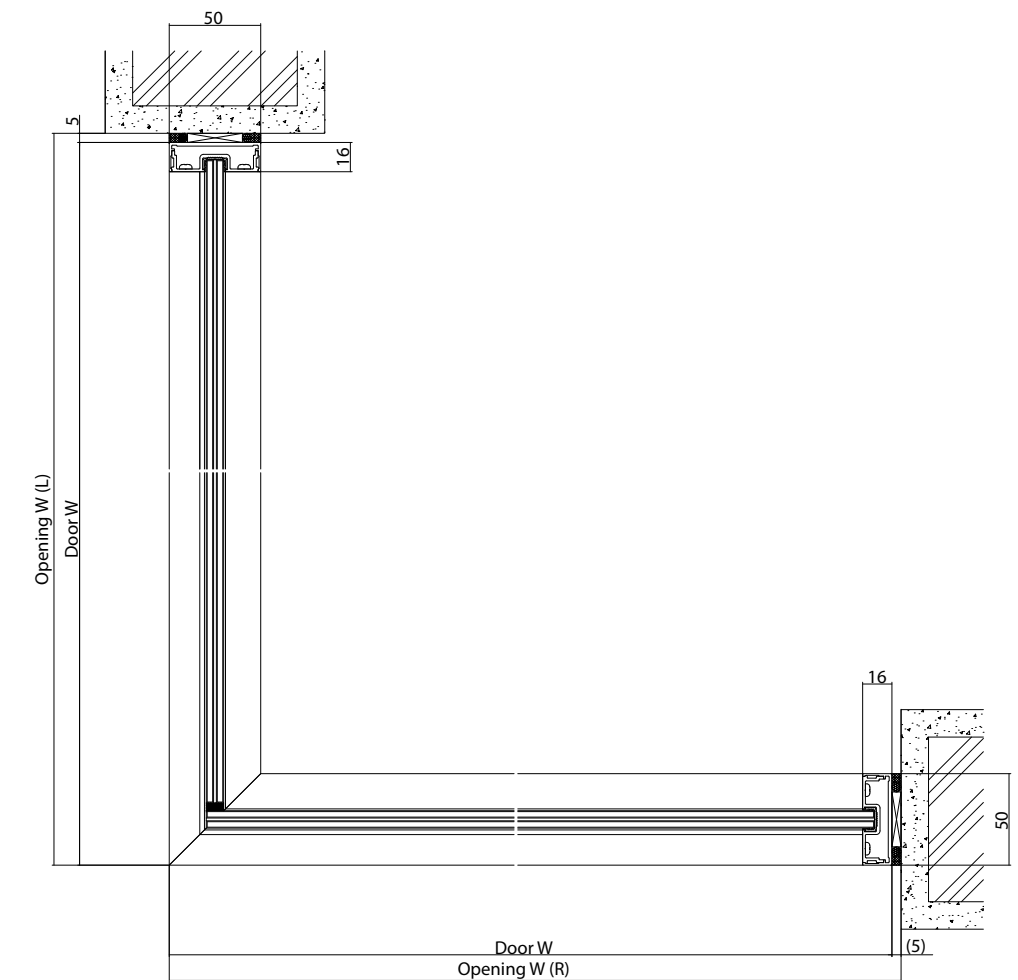
## FIXED DIVIDER



Vertical section: Fixed divider



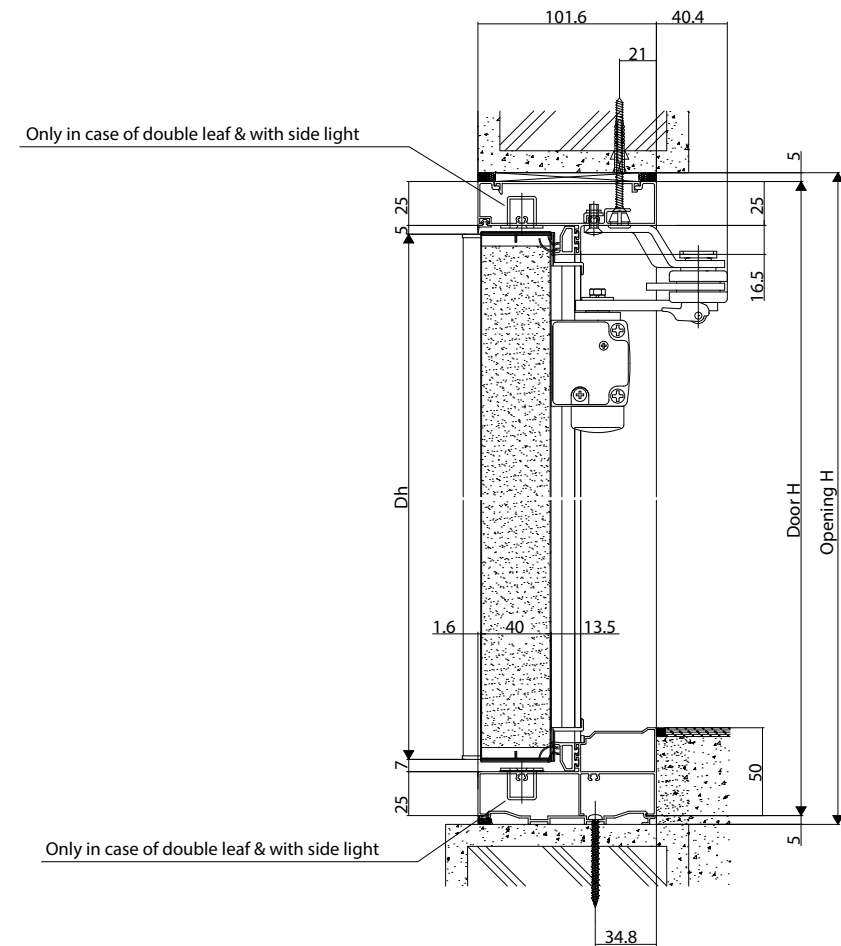
Horizontal section: Fixed divider



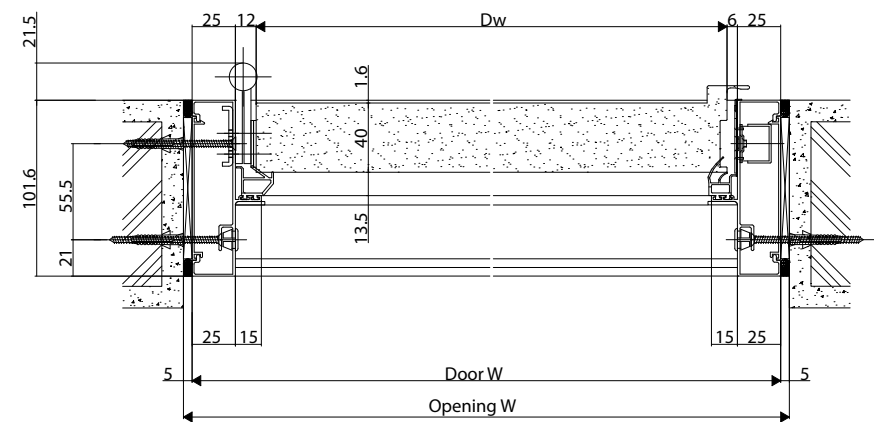
Horizontal section: Corner fixed divider

## GIESTA

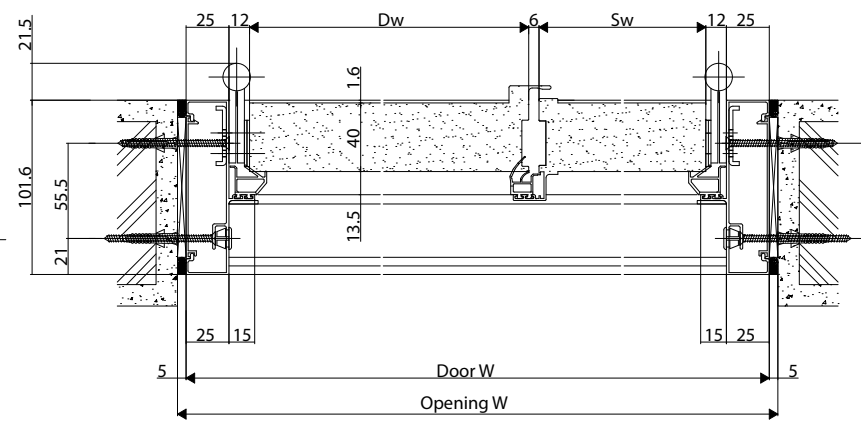
## OUT-SWING DOOR



Vertical section: Single and Double leaf with sill



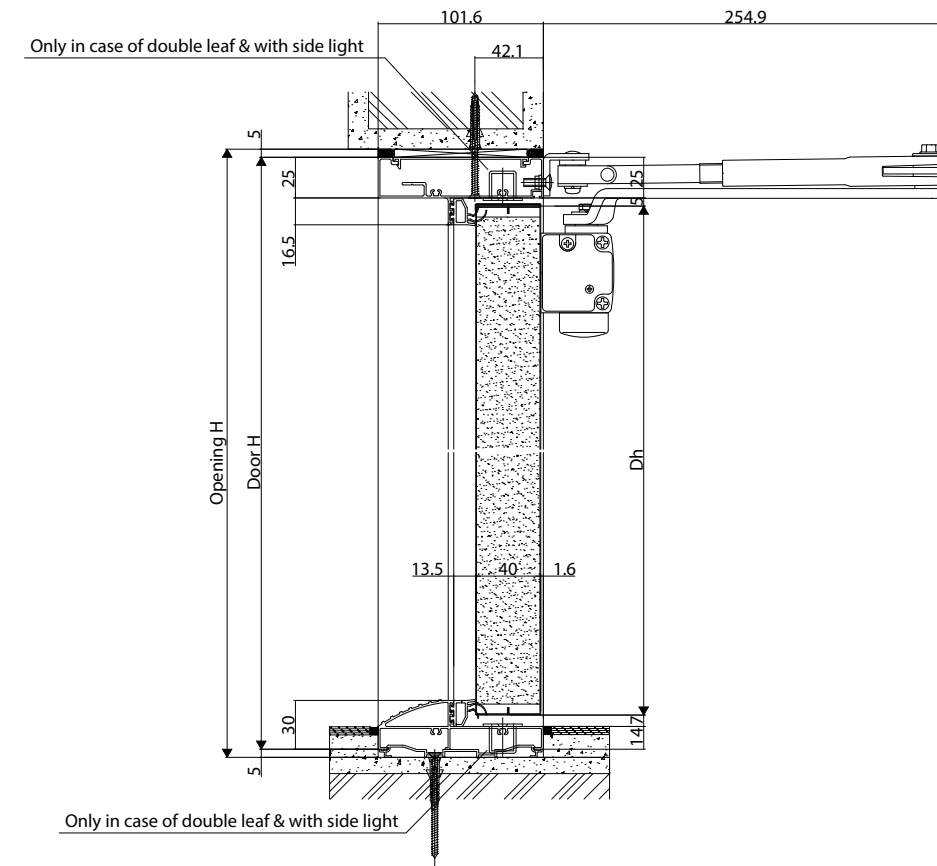
Horizontal section: Single leaf



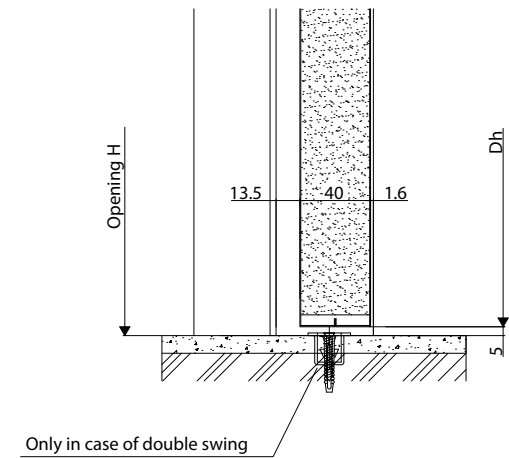
Horizontal section: Double leaf or with side light

## GIESTA

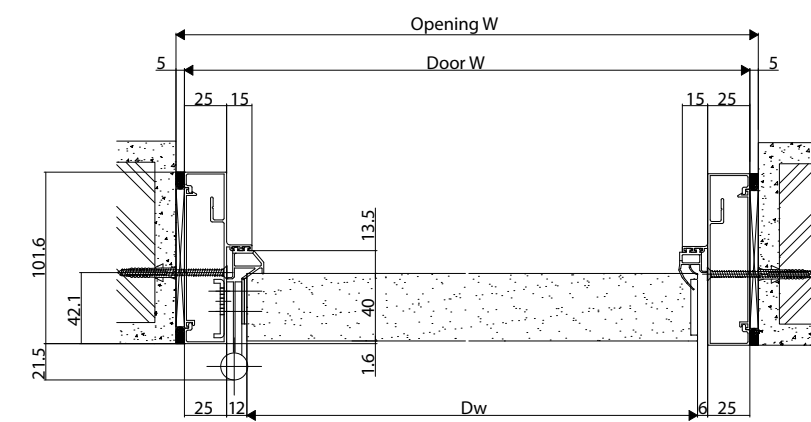
## IN-SWING DOOR



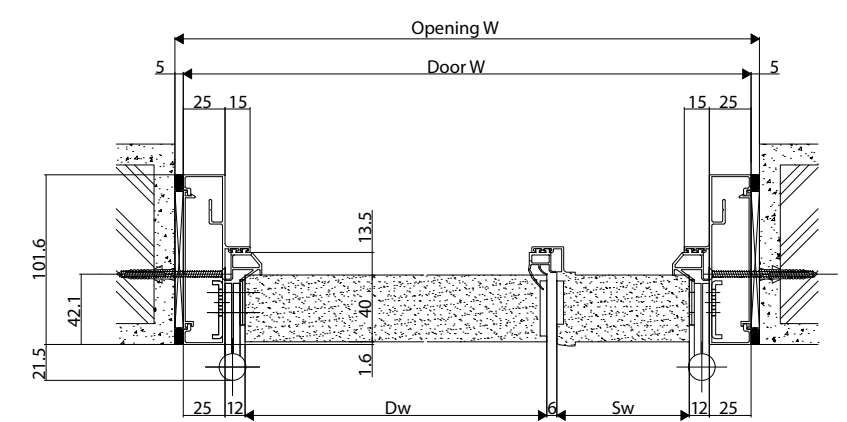
Vertical section: Single and Double leaf



Vertical section: Single and Double leaf without sill



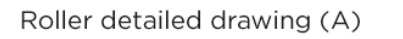
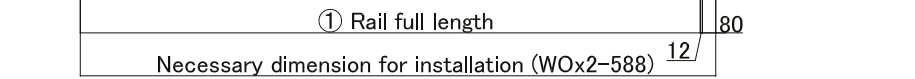
Horizontal section: Single leaf



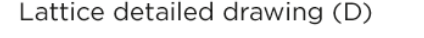
Horizontal section: Double leaf or with side light

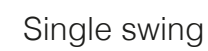


## ALUMINUM EXTERIOR SERIES

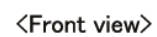
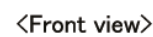


Wall Opening (WO)	① Rail Dimension (1)	② Dimension to rail	③ Rail Dimension (2)
5000+5500	9000	3000	3000
5501+6000	9500	3000	3000
6001+6500	10500	3500	3500
6501+7000	11000	3500	3500
7001+7500	12000	4000	4000
7501+8000	12500	4000	4000

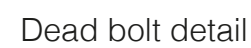




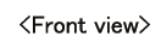
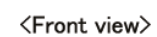
H	a
1200-1299	(H+90)-315
1300-1475	(H+90)-465
1476-1600	(H+90)-665



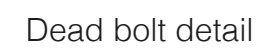
Hinge detail

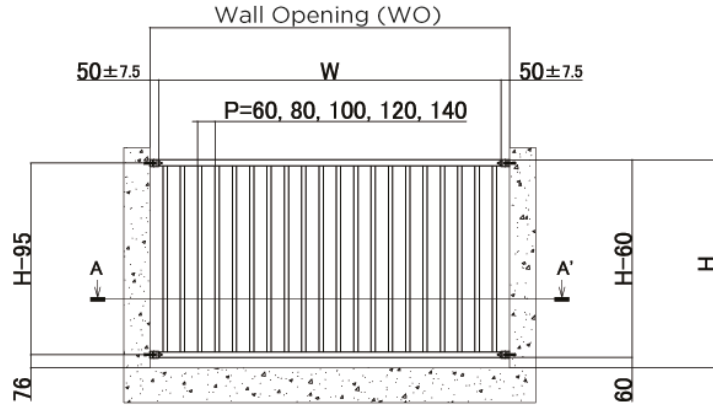
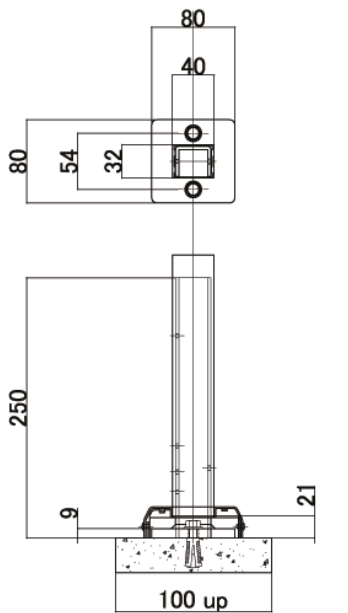
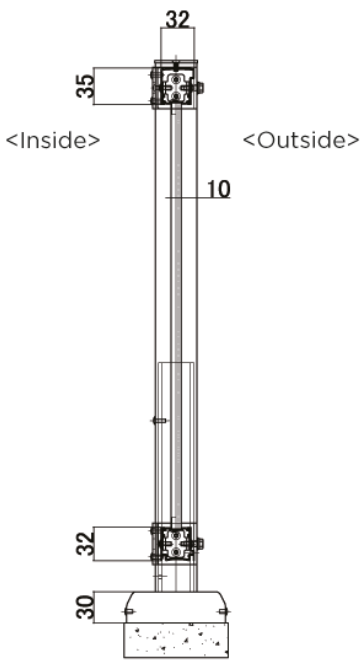
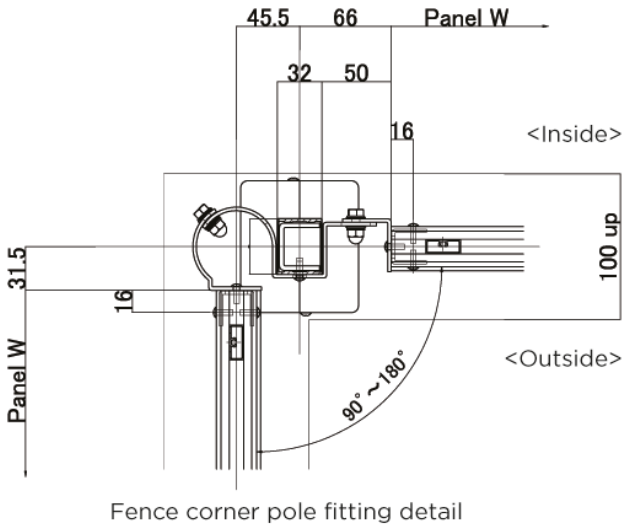
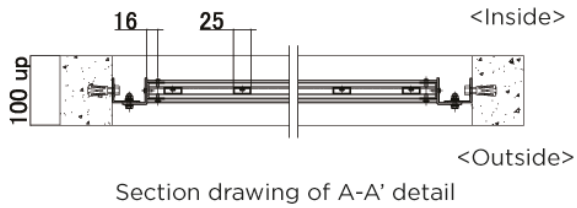


H	a
1200-1299	(H+90)-315
1300-1475	(H+90)-465
1476-1600	(H+90)-665



Hinge detail





Fence straight pole fitting

