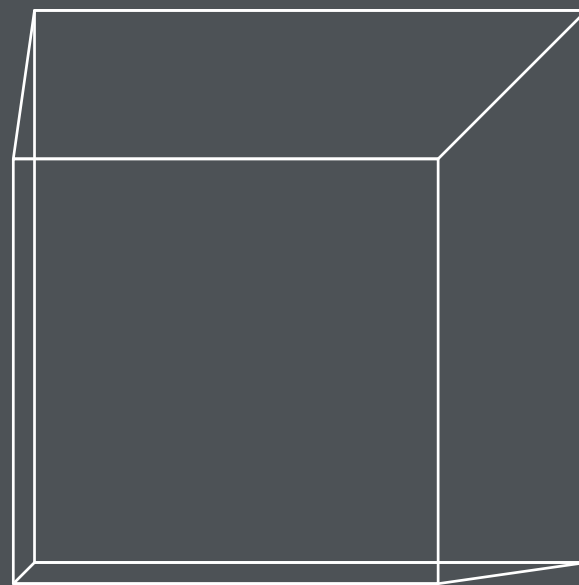
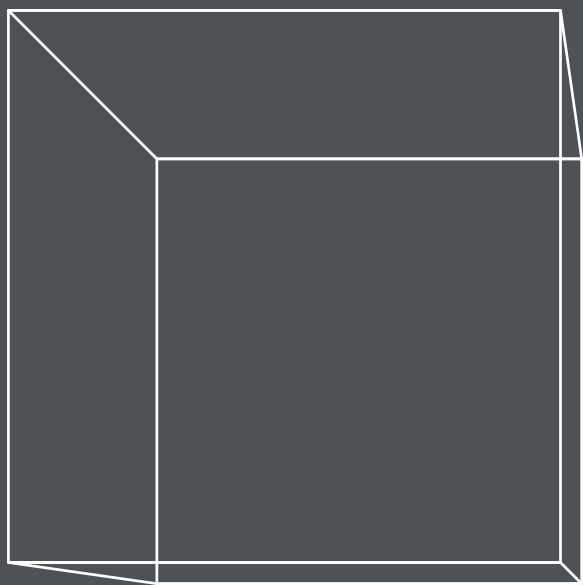
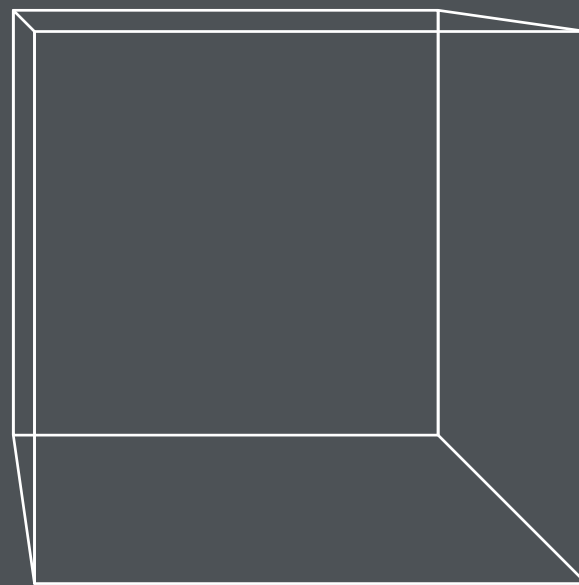
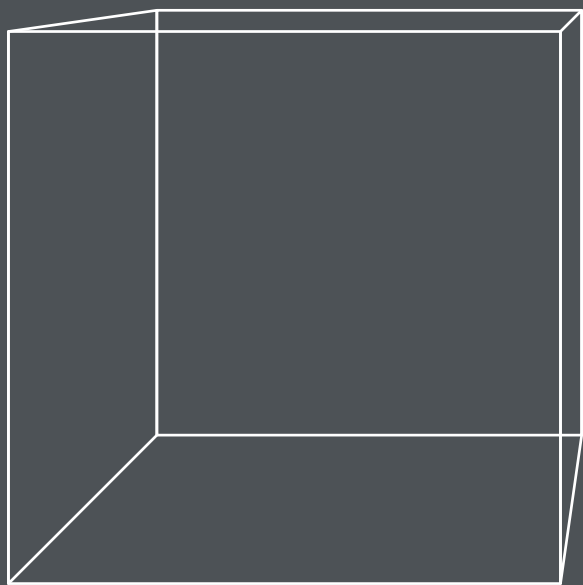


**TOSTEM**



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

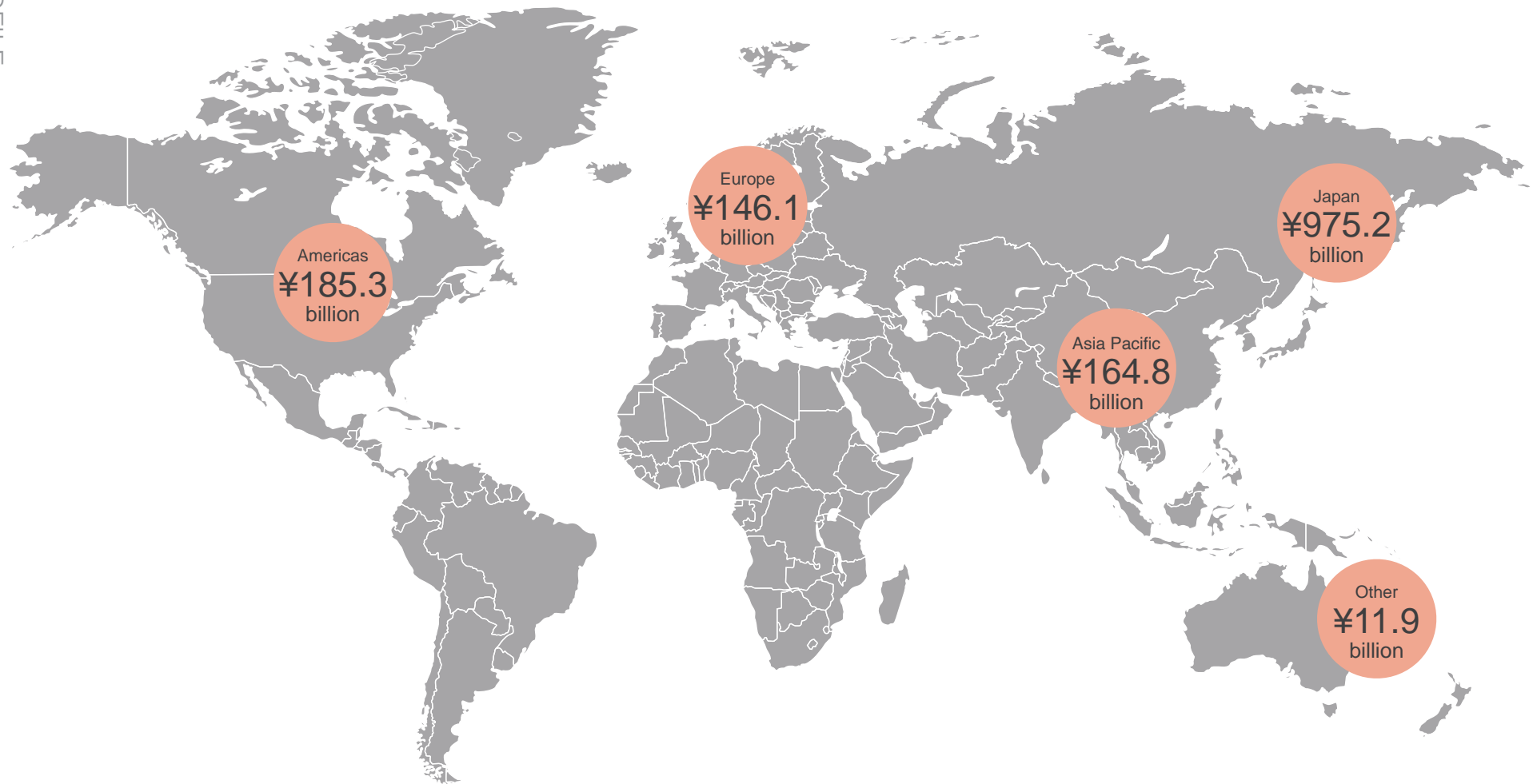




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Revenue  
¥1,483.2 billion



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>®</sup>R100

**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

#### 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.

AUTUMN BROWN

DUSK GRAY

NATURAL BLACK



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



# ENTRANCE DOOR Category

## ALUMINUM INTERIOR Category



## ALUMINUM EXTERIOR Category





# ALUMINUM WINDOW & DOOR Category

# Aluminum Window & Door Category

## GRANTS SERIES



GRANTS PLUS

FRAME DEPTH /  
HEIGHT OF SILL

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

## ATIS SERIES



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

## WE SERIES



WE PLUS

Frame depth : 72 / 104 mm  
Height of sill : 35 mm / 50 mm  
ASTM Rating

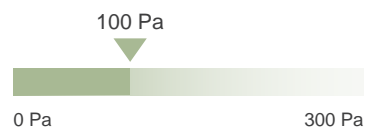
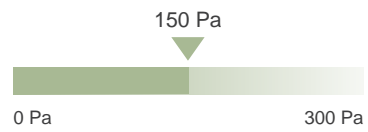
WE 70

Frame depth : 72 / 104 mm  
Height of sill : 35 mm  
JIS Rating

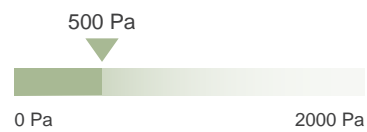
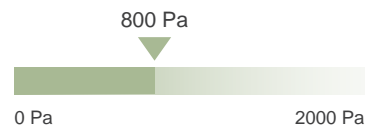
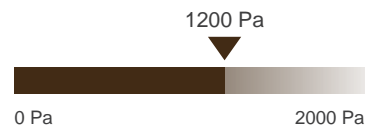
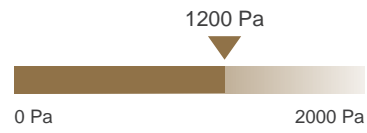
WE 40

Frame depth : 41 mm  
Height of sill : 35 mm  
JIS Rating

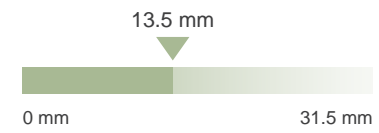
## WATER TIGHTNESS PERFORMANCE



## WIND LOAD PERFORMANCE



## GLASS APPLICATION



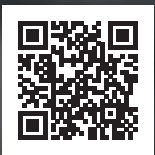




# GRANTS Series

## MASTERING THE ART OF LIVING SPACE

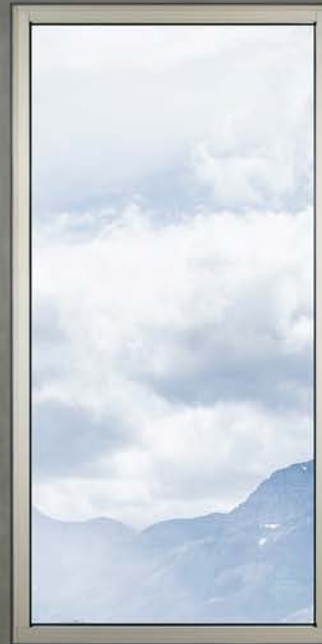
GRANTS Series is designed and engineered to redefine boundary of living space. Unbound the view of the world with panoramic doors. With seamless and innovative designs that allow you to own the breathtaking view of the world.



# UNIQUE FEATURES



AWNING WINDOW



FIXED WINDOW



CASEMENT WINDOW

## A PERFECT BALANCE OF LIFE'S PERSPECTIVE

Symmetrical frame design for perfect balance of artistic perspective.



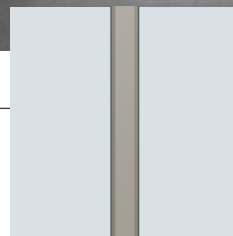
## PERFECT FIT

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

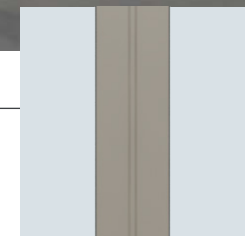
## FLAT RAIL SLIDING

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



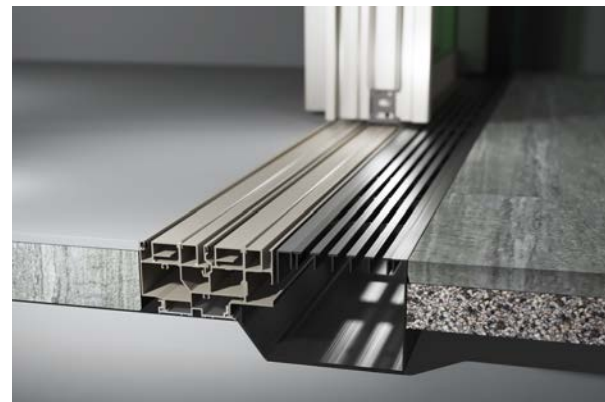
GRANTS



CONVENTIONAL

## ABSOLUTE SEAMLESSNESS

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



## BUILD FOR BOUNDLESS

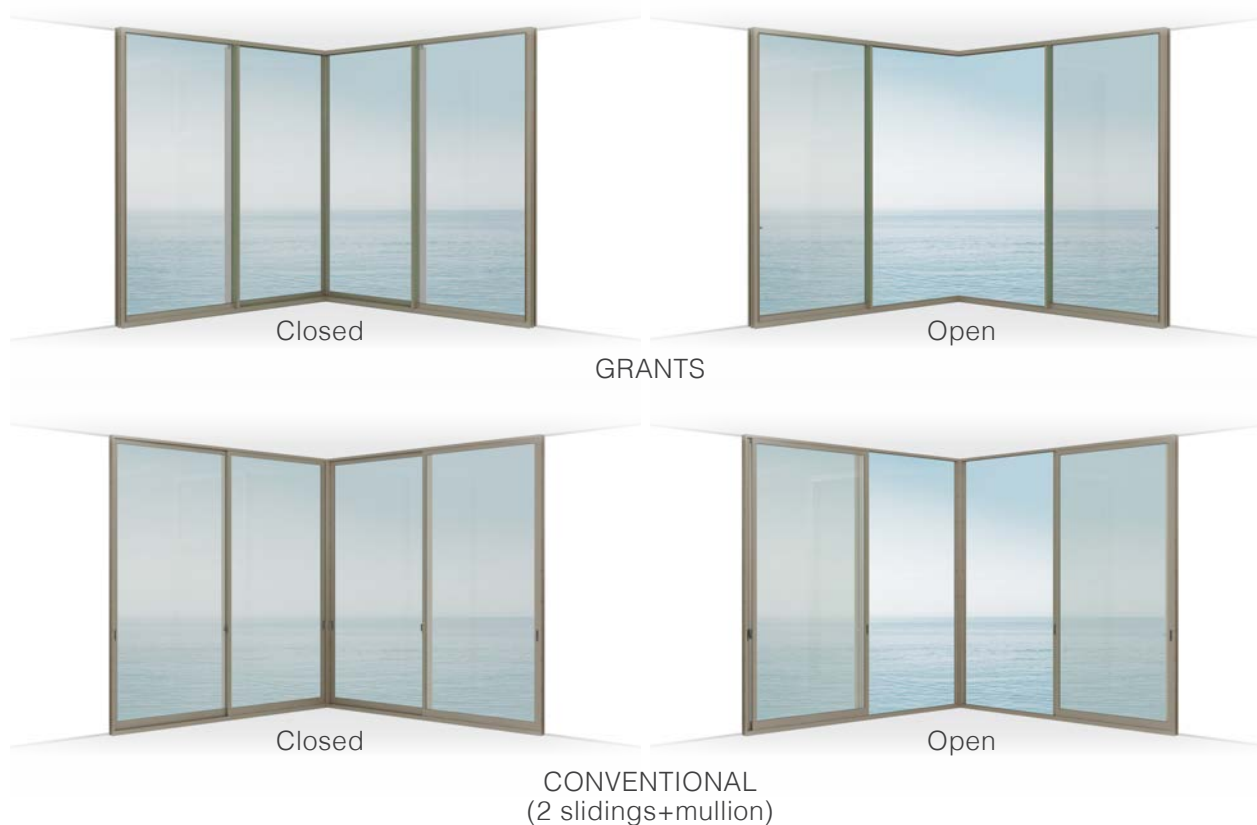
Flat sill rail designed for cleanness and smoothest transition between inside and outside.

\*Only available for GRANTS series



## 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

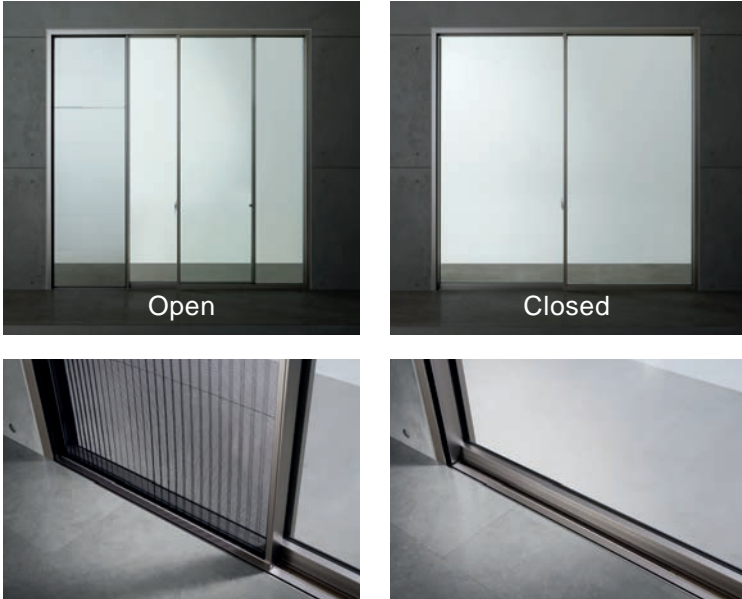
## LESS FOR MORE

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

### GRANTS PLUS

FRAME DEPTH

101.6 mm  
120 mm (2 tracks sliding)  
178 mm (3 tracks sliding)

HEIGHT OF SILL

50 mm

## PERFORMANCES



WIND PRESSURE



WATER TIGHTNESS



AIR TIGHTNESS



NOISE INSULATION

GENERAL  
GRANTS PRODUCT

2000PA  
(ASTM E330)

300PA  
(ASTM E331)

10.7M<sup>3</sup>/H.M<sup>2</sup>  
(ASTM E283)

T-1: 25DB  
(JIS A 1416)

## COLORS



NATURAL  
WHITE



NATURAL  
SILVER



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



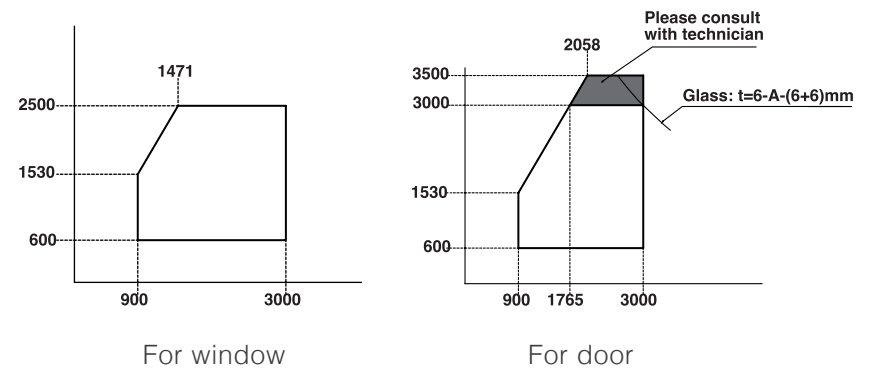
NATURAL  
BLACK

# GRANTS PLUS

## SLIDING (2P2T)



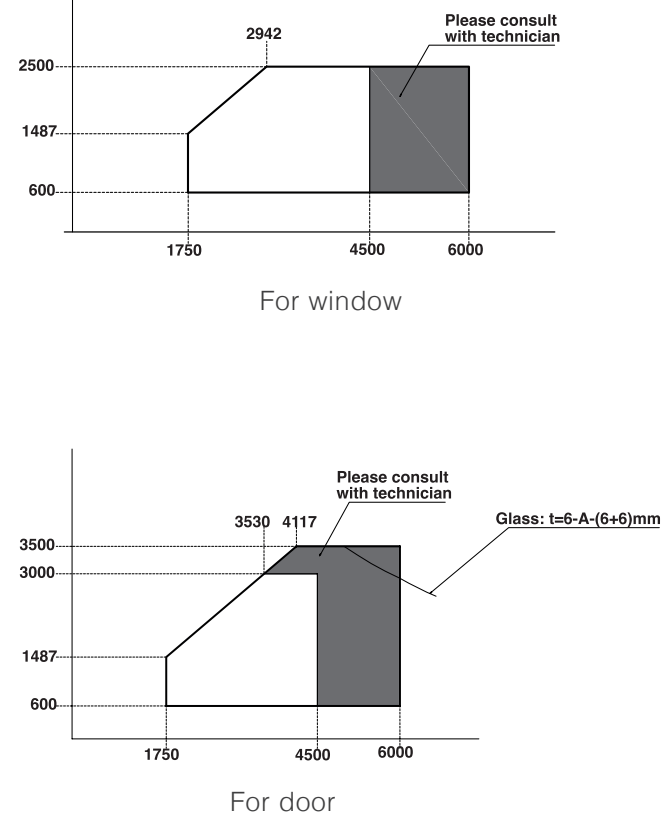
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Select panel position from L/R
- Single slider (FS, SF) available
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - Other glass: Sealant



## 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

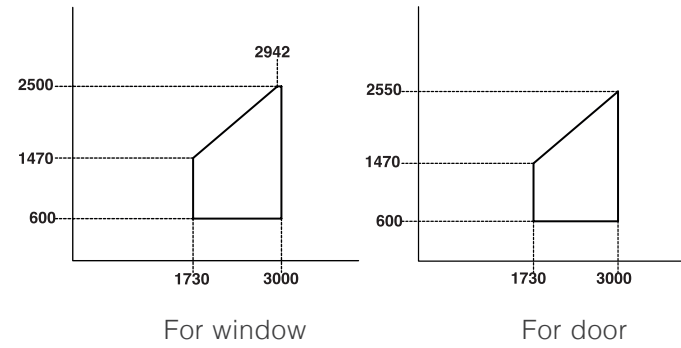


# GRANTS PLUS

## SLIDING (3P2T) SFS



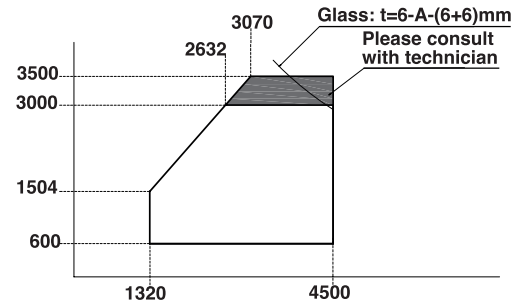
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Glazing finish
  - ↳ 8 - 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



## SLIDING (3P3T)



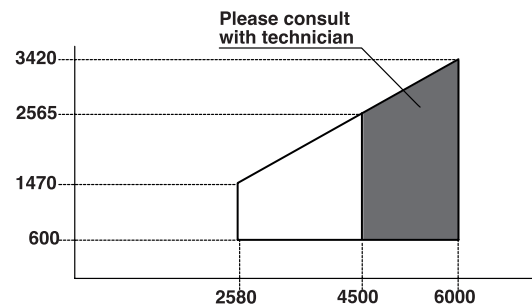
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Select panel position from L/R
- Select from (SSS, FSS, SSF)
- Glazing finish
  - ↳ 8 - 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



## SLIDING (6P3T)



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

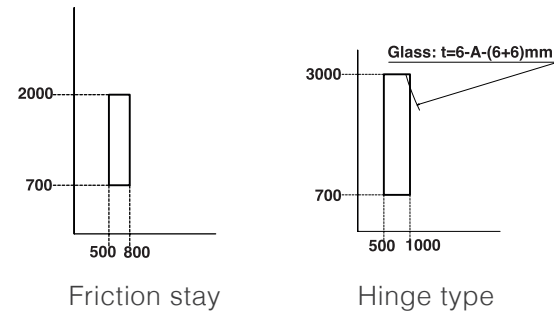


# GRANTS PLUS

## CASEMENT WINDOW



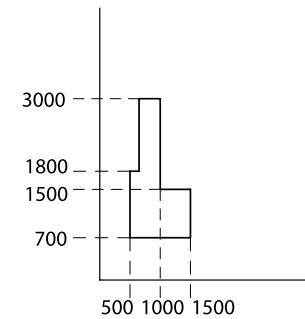
- Frame depth: 101.6 mm
- L-fit aluminum diecast handle
- Pleated insect screen available
- Select from L/R
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



## AWNING WINDOW



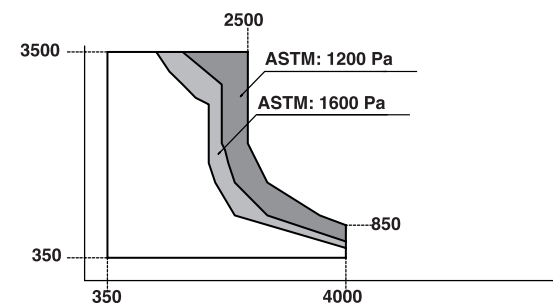
- Frame depth: 101.6 mm
- L-fit aluminum diecast handle
- Pleated insect screen available
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - 28 - 31.52 mm: Glazing channel
  - Other glass: Sealant



## 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

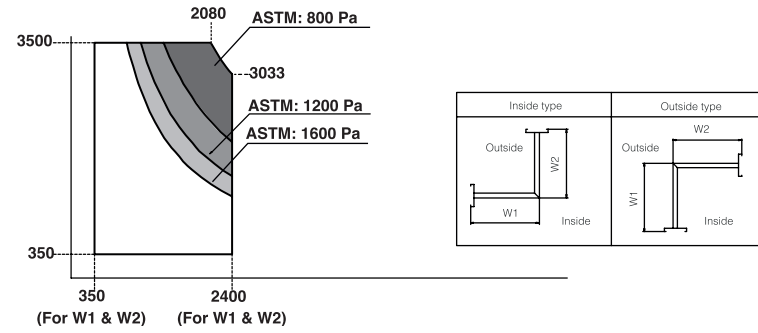


# GRANTS PLUS

## CORNER FIXED WINDOW



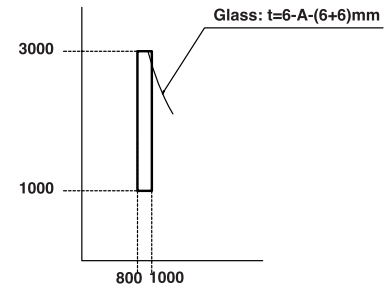
- Frame depth: 101.6 mm
- Only available in single glass
- Both in/outward corners available
- Glazing finish: Sealant



## 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

	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

	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION
GENERAL GRANTS PRODUCT	500PA - 1200PA (JIS A 1515)	W-3: 250PA (JIS A 1517)	A-4: 2M <sup>3</sup> /H.M <sup>2</sup> (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: 2M <sup>3</sup> /H.M <sup>2</sup> (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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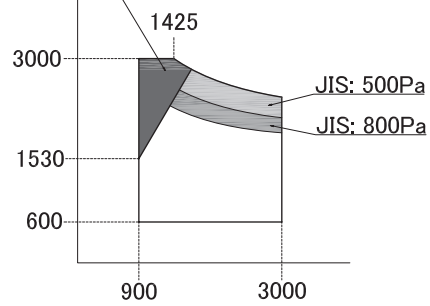
# GRANTS

## SLIDING (2P2T)



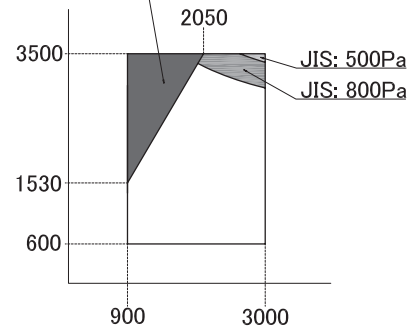
- Frame depth: 120 mm
- L-fit aluminum diecast handle (optional)
- Select panel position from L/R
- Pleated insect screen (optional)
- Single slider (FS, SF) available
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm : Glazing channel
  - ↳ Other glass: Sealant

Please consult with technician



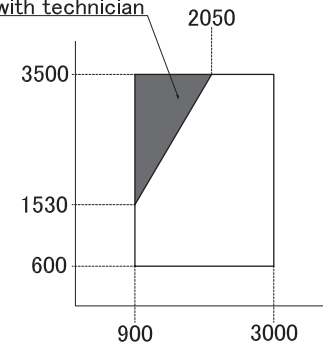
**TYPE-A**

Please consult with technician



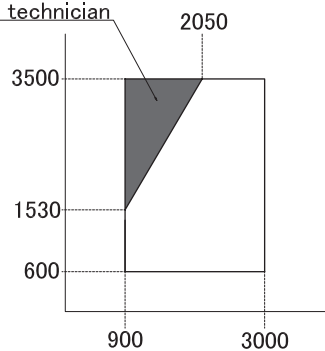
**TYPE-B**

Please consult with technician



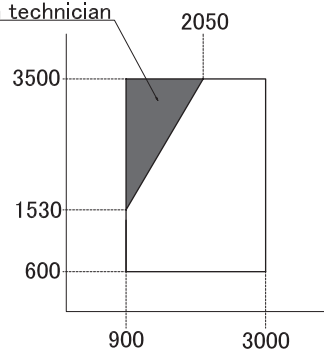
**TYPE-C**

Please consult with technician



**TYPE-D**

Please consult with technician



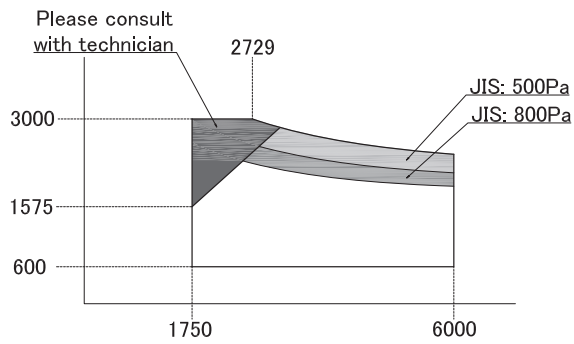
**TYPE-E**

# GRANTS

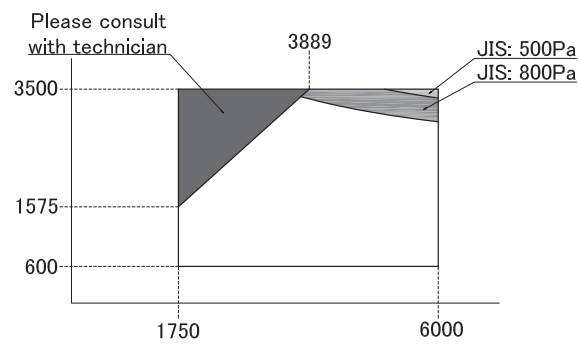
## SLIDING (4P2T)



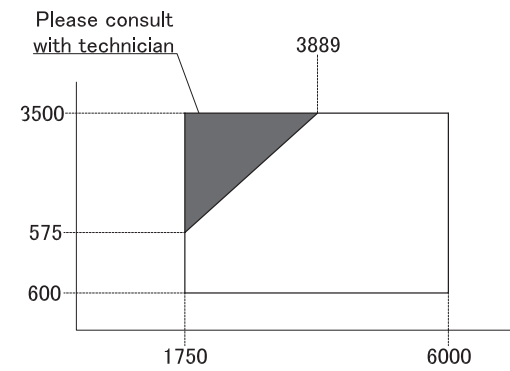
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSS, FSSF)
- Select from panel type A to E
- Glazing finish
  - 8 - 13.52 mm: Glazing channel
  - Other glass: Sealant



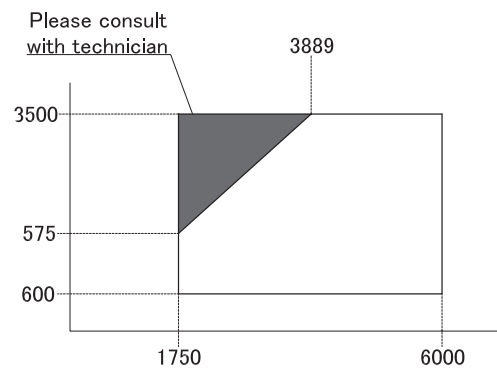
**TYPE-A**



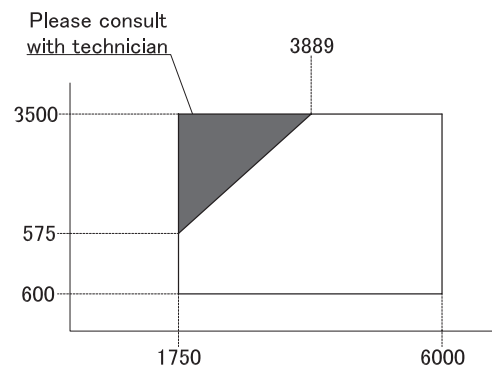
**TYPE-B**



**TYPE-C**



**TYPE-D**



**TYPE-E**

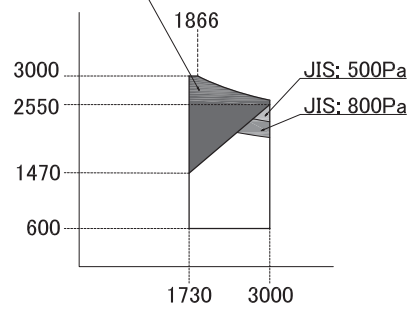
# GRANTS

## SLIDING (3P2T) SFS



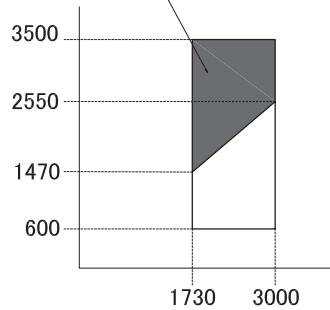
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant

Please consult  
with technician



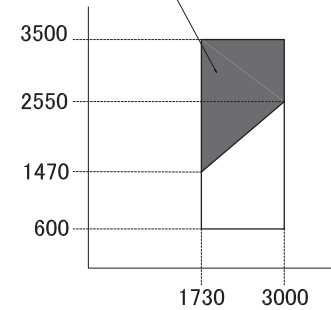
**TYPE-A**

Please consult  
with technician



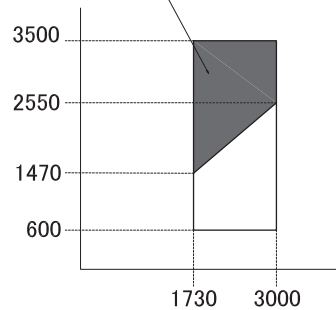
**TYPE-B**

Please consult  
with technician



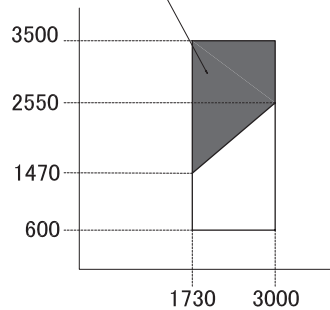
**TYPE-C**

Please consult  
with technician



**TYPE-D**

Please consult  
with technician



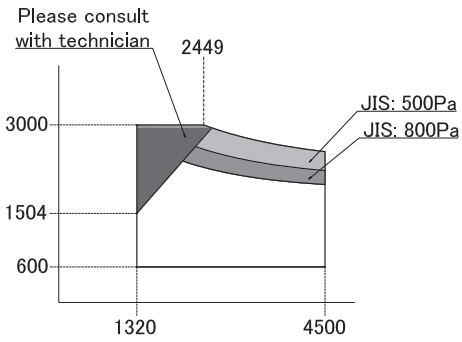
**TYPE-E**

# GRANTS

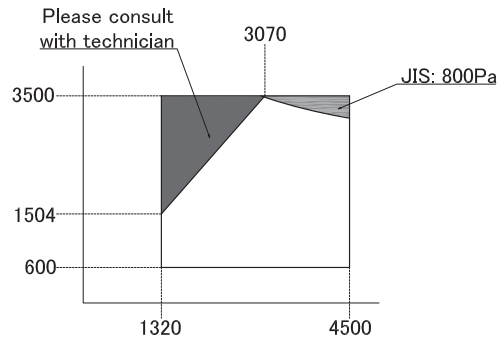
## SLIDING (3P3T)



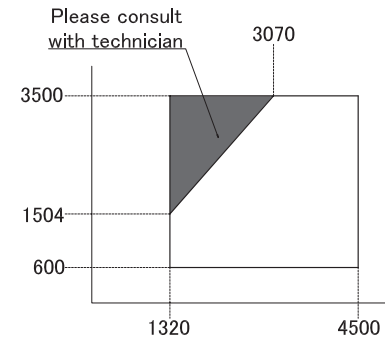
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select panel position from L/R
- Select from (SSS, FSS, SSF)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant



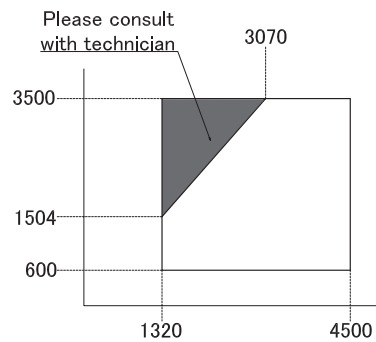
**TYPE-A**



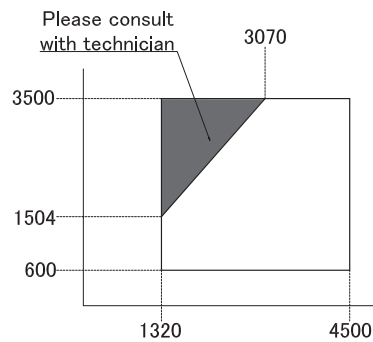
**TYPE-B**



**TYPE-C**



**TYPE-D**



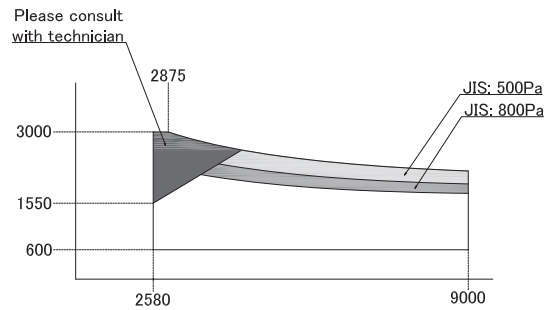
**TYPE-E**

# GRANTS

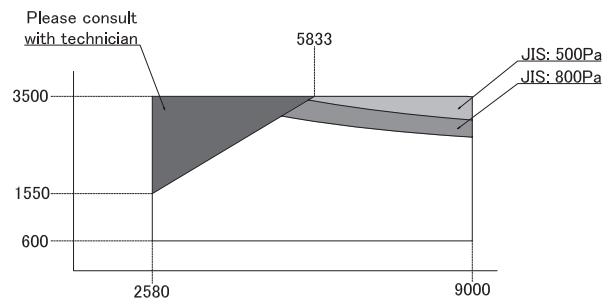
## SLIDING (6P3T)



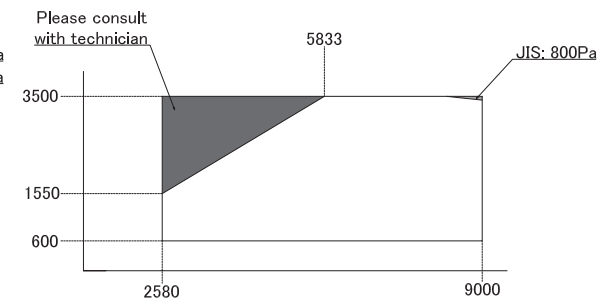
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSSSS, FSSSSF)
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



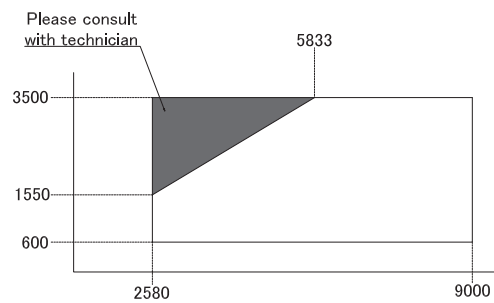
**TYPE-A**



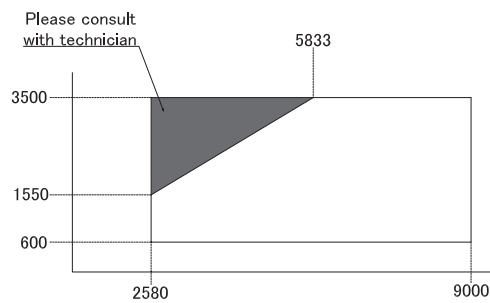
**TYPE-B**



**TYPE-C**



**TYPE-D**



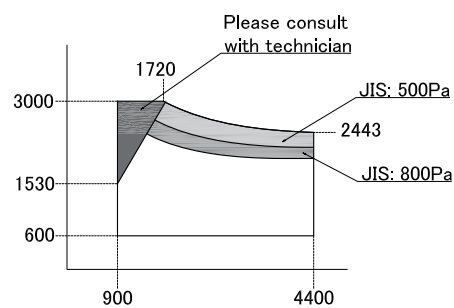
**TYPE-E**

# GRANTS

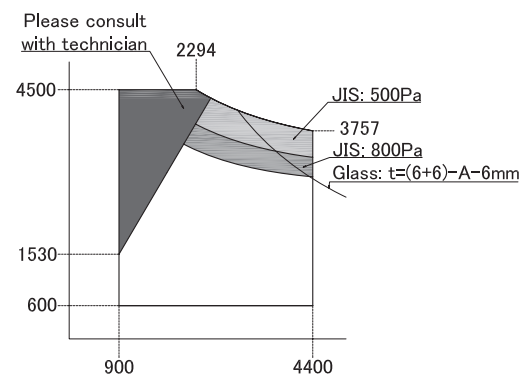
## FLAT RAIL SLIDING (2P2T)



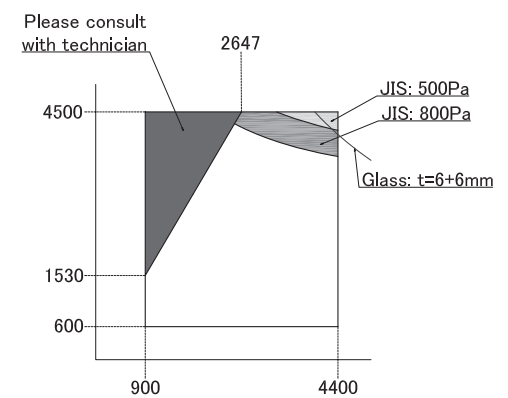
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select panel position from L/R
- Single slider (FS, SF) available
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



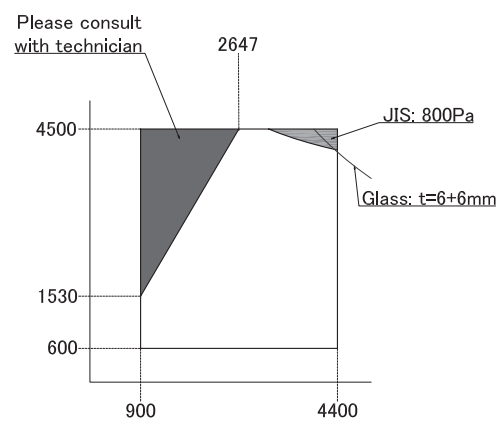
**TYPE-A**



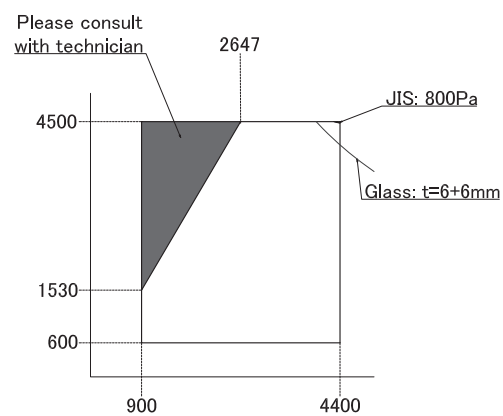
**TYPE-B**



**TYPE-C**



**TYPE-D**



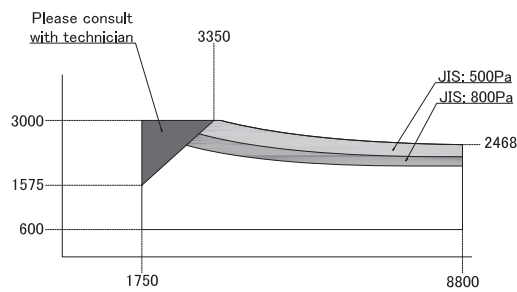
**TYPE-E**

# GRANTS

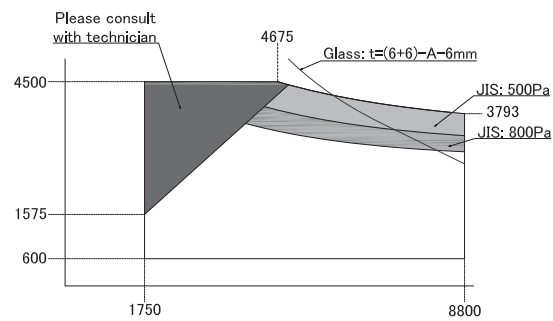
## FLAT RAIL SLIDING (4P2T)



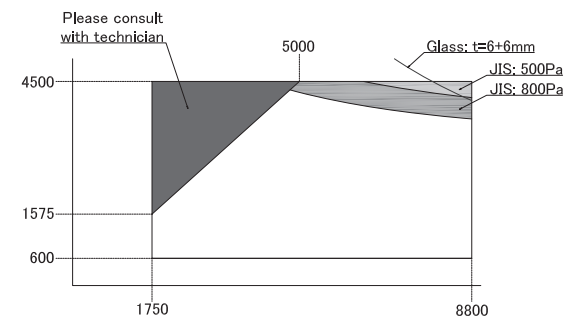
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSS, FSSF)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant



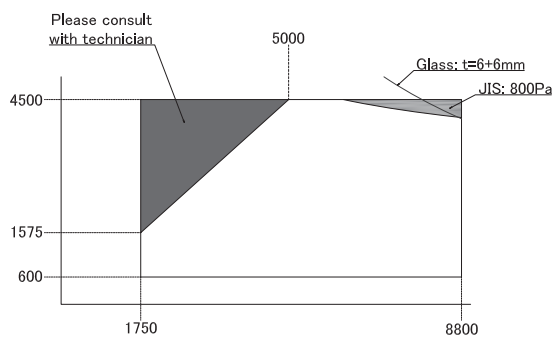
**TYPE-A**



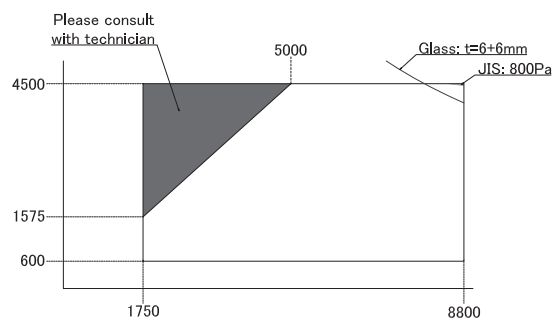
**TYPE-B**



**TYPE-C**



**TYPE-D**



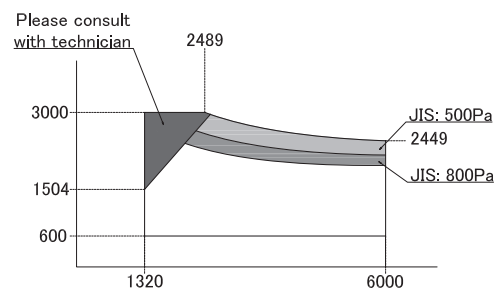
**TYPE-E**

## GRANTS

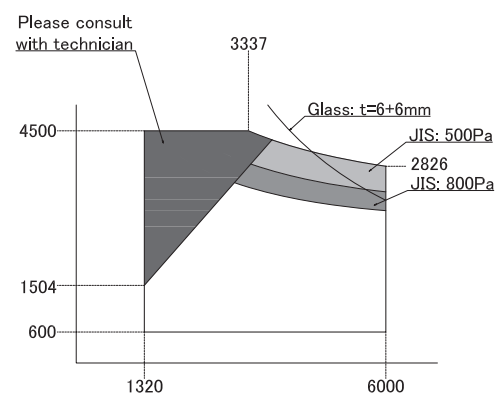
## FLAT RAIL SLIDING (3P3T)



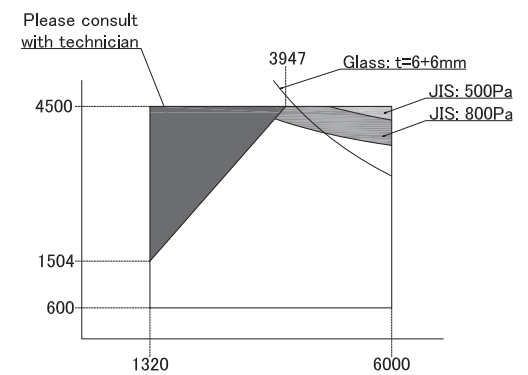
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSS, FSS, SSF)
- Select from panel type A to E
- Glazing finish
  - 8 to 13.52 mm: Glazing channel
  - Other glass: Sealant



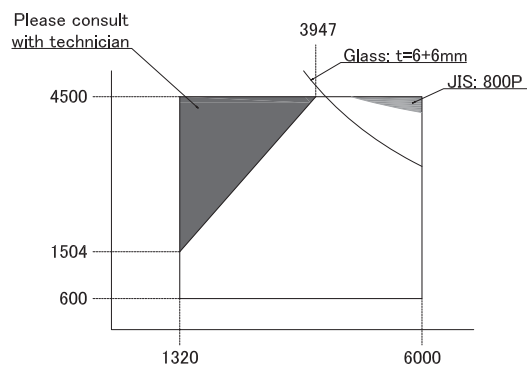
TYPE-A



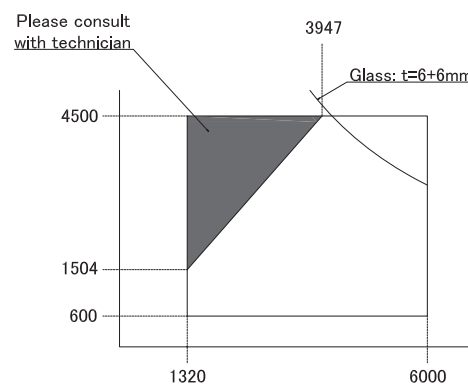
TYPE-B



TYPE-C



TYPE-D



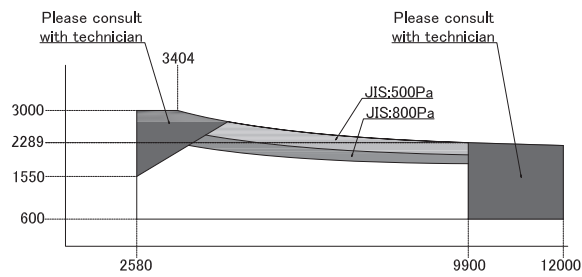
TYPE-E

# GRANTS

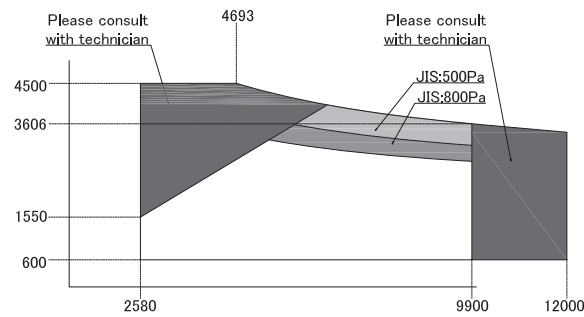
## FLAT RAIL SLIDING (6P3T)



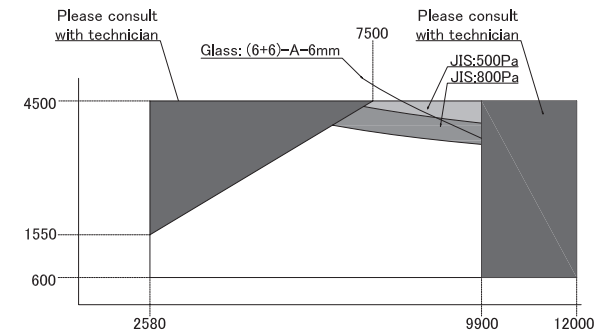
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from (SSSSSS, FSSSSF)
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



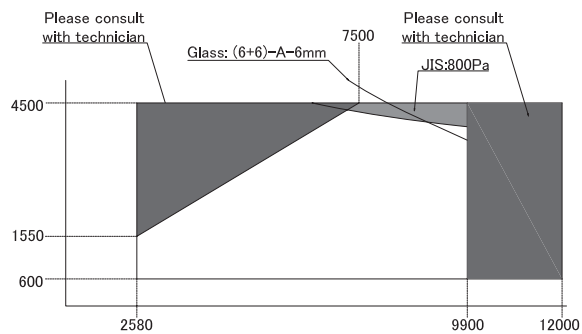
**TYPE-A**



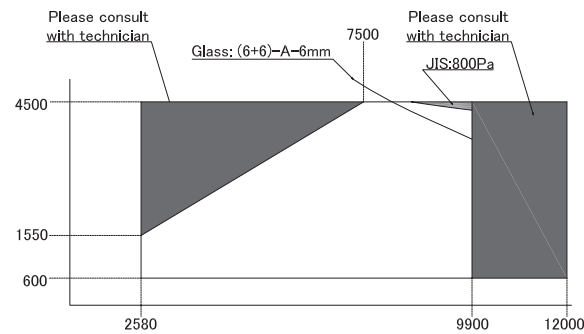
**TYPE-B**



**TYPE-C**



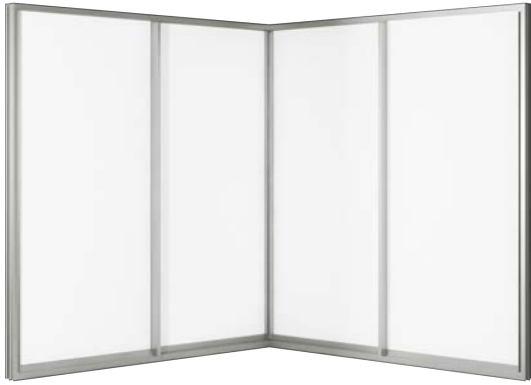
**TYPE-D**



**TYPE-E**

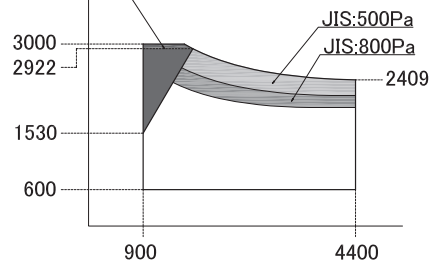
# GRANTS

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



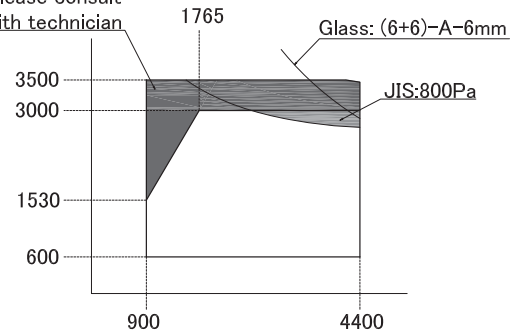
- Frame depth: 120 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from in/outward
- Select from (SS+SS, FS+SF)
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant

Please consult  
with technician



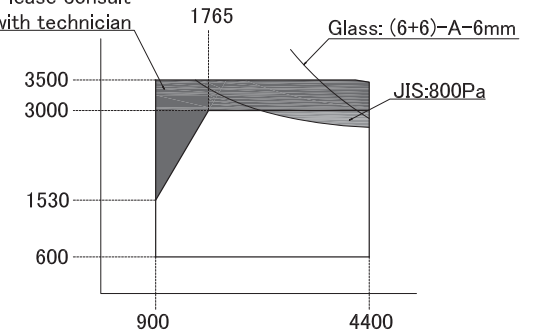
**TYPE-A**

Please consult  
with technician



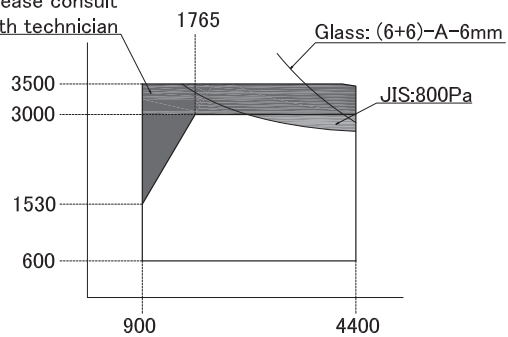
**TYPE-B**

Please consult  
with technician



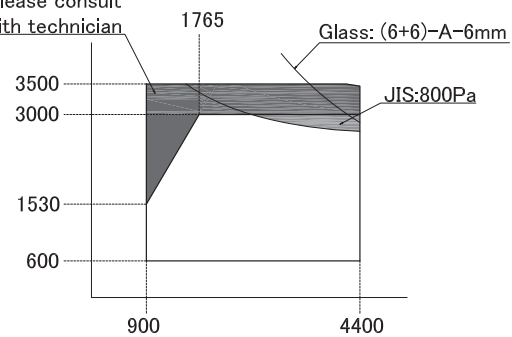
**TYPE-C**

Please consult  
with technician



**TYPE-D**

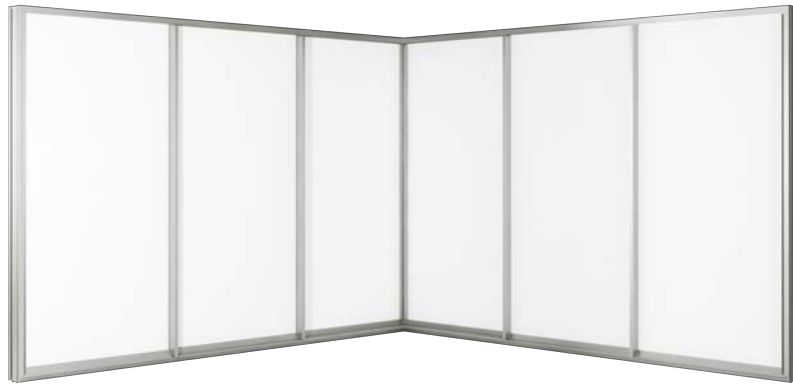
Please consult  
with technician



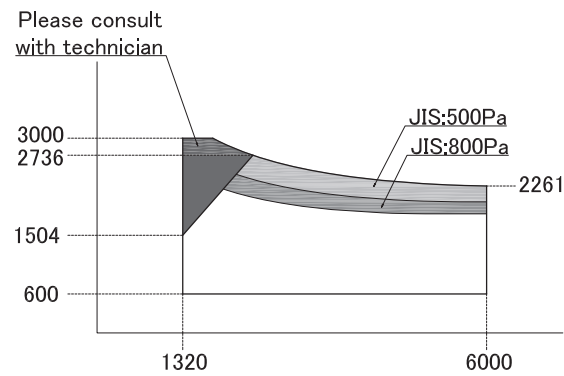
**TYPE-E**

# GRANTS

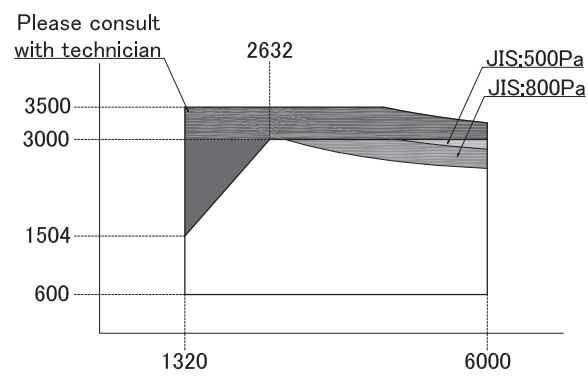
## FLAT RAIL CORNER SLIDING (3P3T + 3P3T)



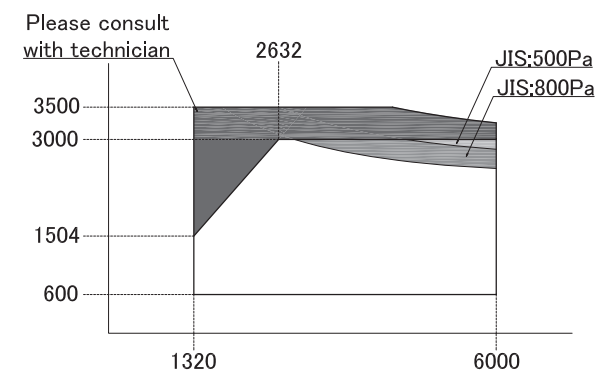
- Frame depth: 178 mm
- L-fit aluminum diecast handle (Optional)
- Pleated insect screen (Optional)
- Select from in/outward
- Select from (SSS+SSS, FSS+SSF)
- 2P3T + 3P3T also available
- Select from panel type A to E
- Glazing finish
  - ↳ 8 to 13.52 mm: Glazing channel
  - ↳ Other glass: Sealant



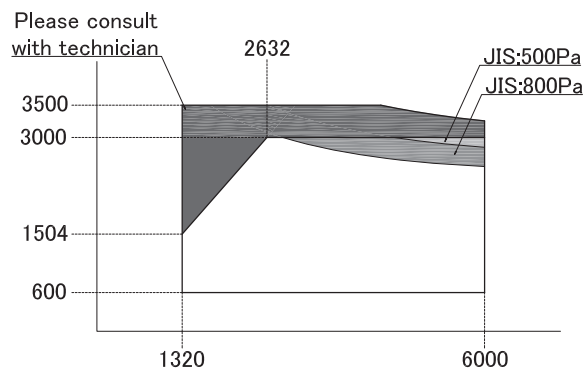
**TYPE-A**



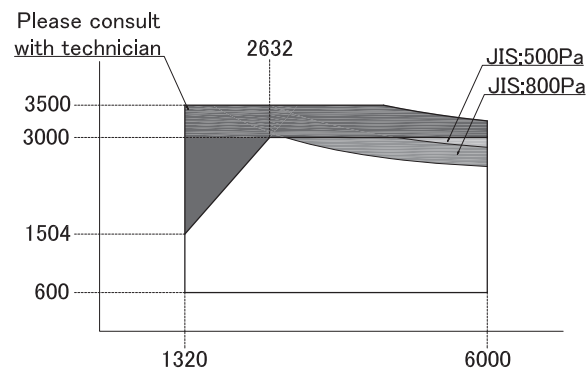
**TYPE-B**



**TYPE-C**



**TYPE-D**



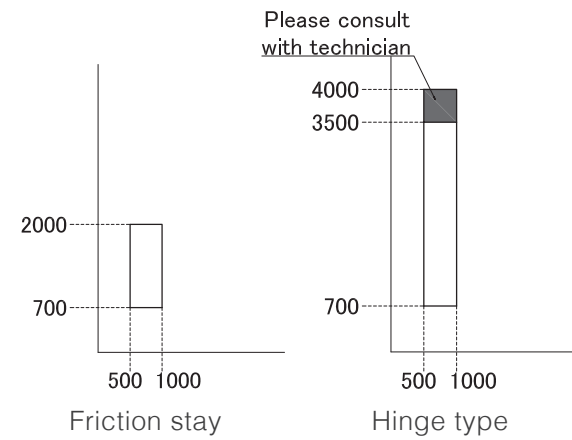
**TYPE-E**

# GRANTS

## CASEMENT WINDOW



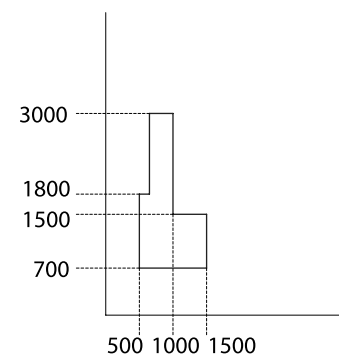
- Frame depth: 101.6 mm
- Pleated insect screen available
- Select from L/R
- Glazing finish
  - ▮ 8 - 13.52 mm: Glazing channel
  - ▮ 28 - 31.52 mm: Glazing channel
  - ▮ Other glass: Sealant



## AWNING WINDOW



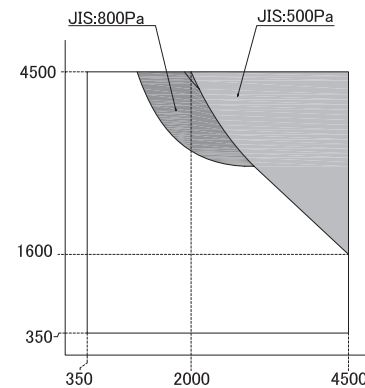
- Frame depth: 101.6 mm
- Pleated insect screen available
- Glazing finish
  - ▮ 8 - 13.52 mm: Glazing channel
  - ▮ 28 - 31.52 mm: Glazing channel
  - ▮ Other glass: Sealant



## 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

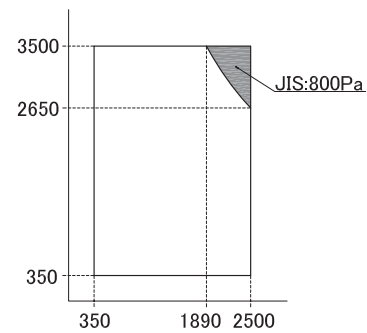


# GRANTS

## CORNER FIXED WINDOW



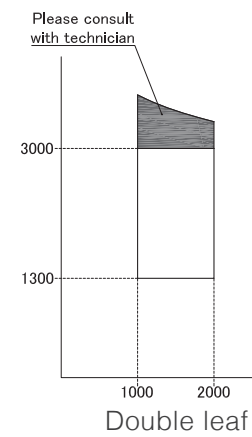
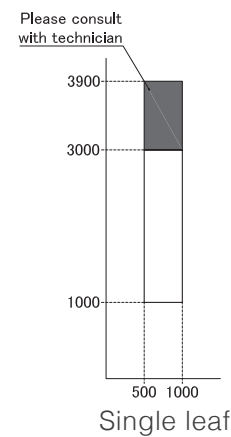
- Frame depth: 101.6 mm
- Only available in single glass
- Both in/outward corners available
- -Glazing finish: Sealant



## 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.





50  
ATIS SERIES

# 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

## 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



L-FIT HANDLE



LIMIT ARM FOR SAFETY (Optional)



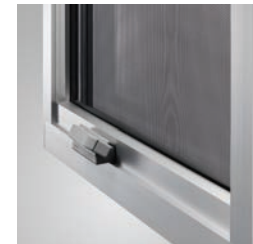
CASEMENT WINDOW  
(with cam-latch handle)



CASEMENT WINDOW  
(with operator handle)



SMART INSECT  
SCREEN SYSTEM



L-FIT DESIGN HANDLE



## 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.



# TILT & SLIDE WINDOW



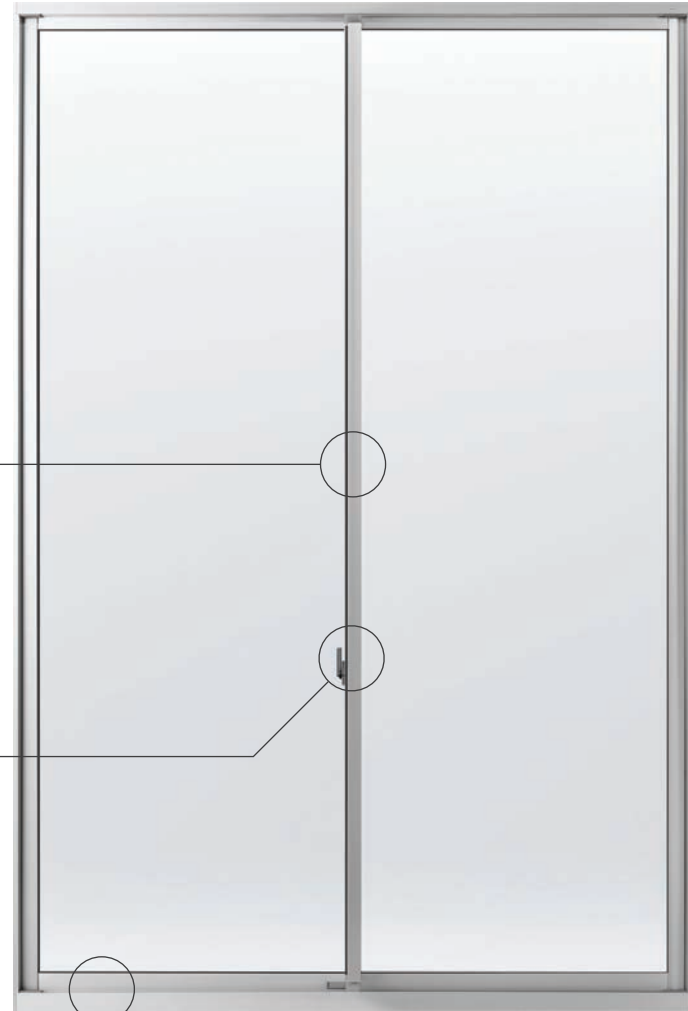
## SLIDING WINDOW / DOOR



LIMIT ARM (Optional)



ALUMINUM PROFILE HANDLE



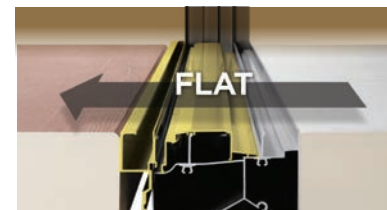
### FLAT ATTACHMENT (Optional)



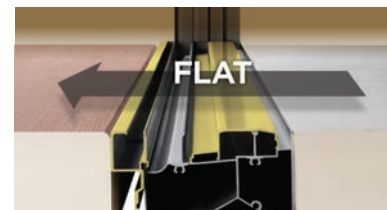
SAFE FOR EVERYONE



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



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

2000PA  
(ASTM E330)



WATER TIGHTNESS

300PA  
(ASTM E331)



AIR TIGHTNESS

10.7M<sup>3</sup>/H.M<sup>2</sup>  
(ASTM E283)



NOISE INSULATION<sup>\*1</sup>

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



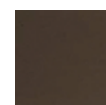
NATURAL  
WHITE



NATURAL  
SILVER



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY

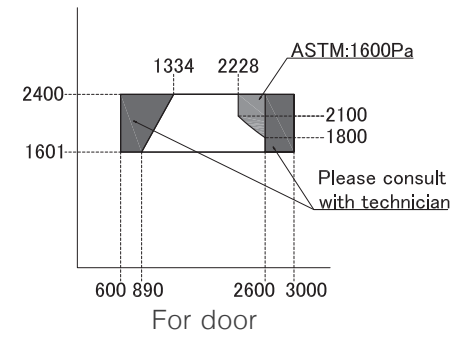
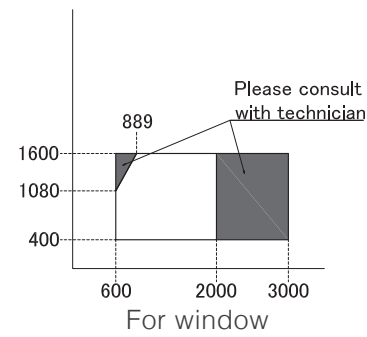


NATURAL  
BLACK

## SLIDING (2P2T)



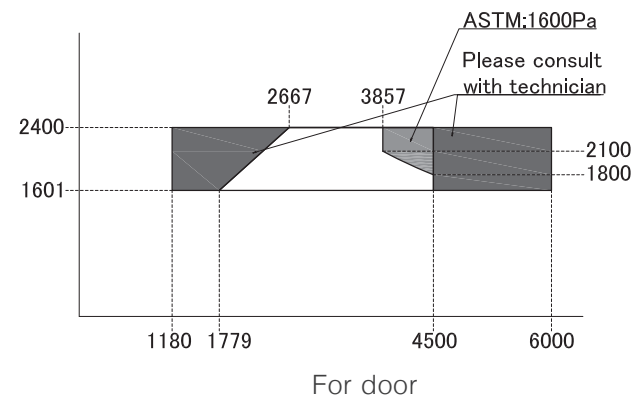
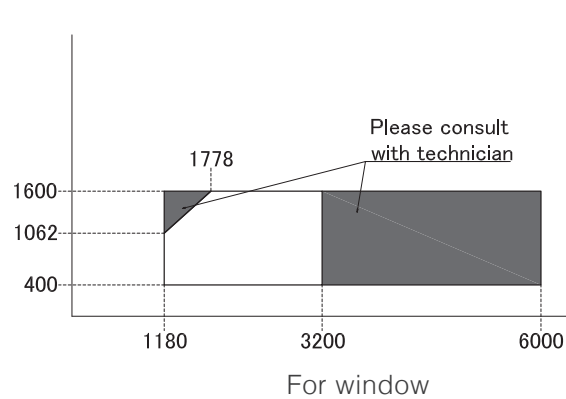
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Glazing finish: Glazing channel



## 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

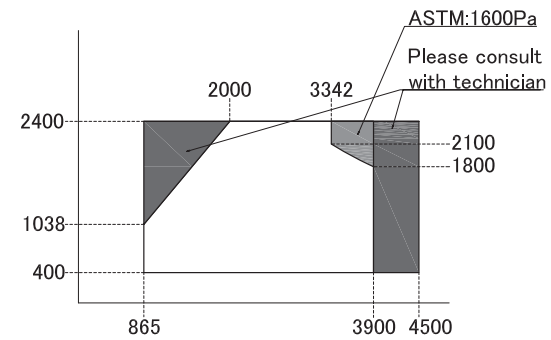


# ATIS PLUS

## SLIDING (3P3T)



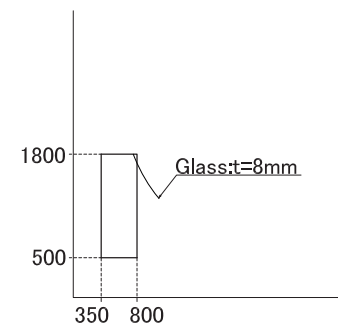
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Glazing finish: Glazing channel



## CASEMENT WINDOW



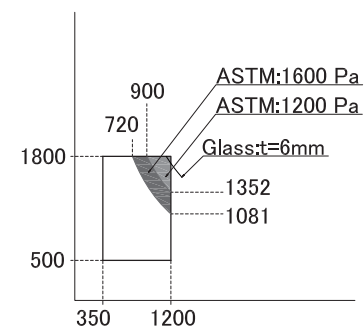
- Frame depth: 88 mm
- Select from L/R
- Swing screen available
- Glazing finish: Glazing channel



## AWNING WINDOW



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

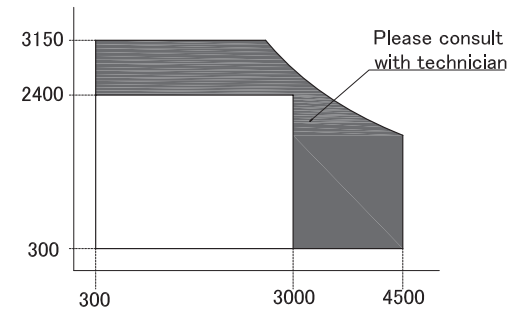


# ATIS PLUS

## FIXED WINDOW



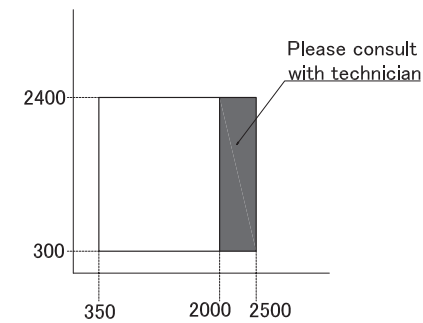
- Frame depth: 88 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead (For 4-4 LG, glazing bead not available)



## CORNER FIXED WINDOW



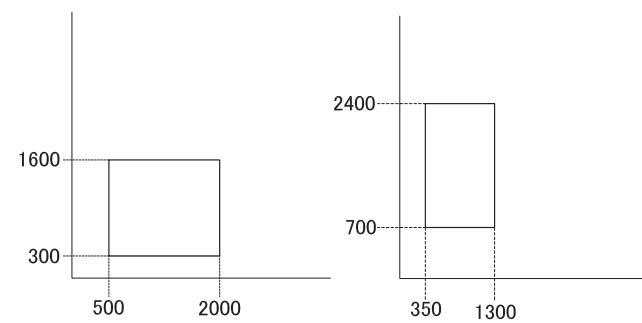
- Frame depth: 88 mm
- Only available in single glass
- Both in/outward corners available
- Middle bar (Optional)
- Glazing finish: Sealant (For 4-4 LG, glazing bead not available)



## UNIT FIXED WINDOW



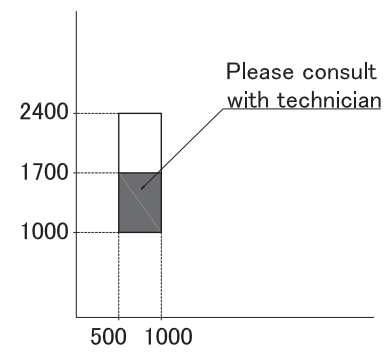
- Wind load performance varies by glass thickness, please consult with our technician



## OUT-SWING DOOR (SINGLE LEAF)

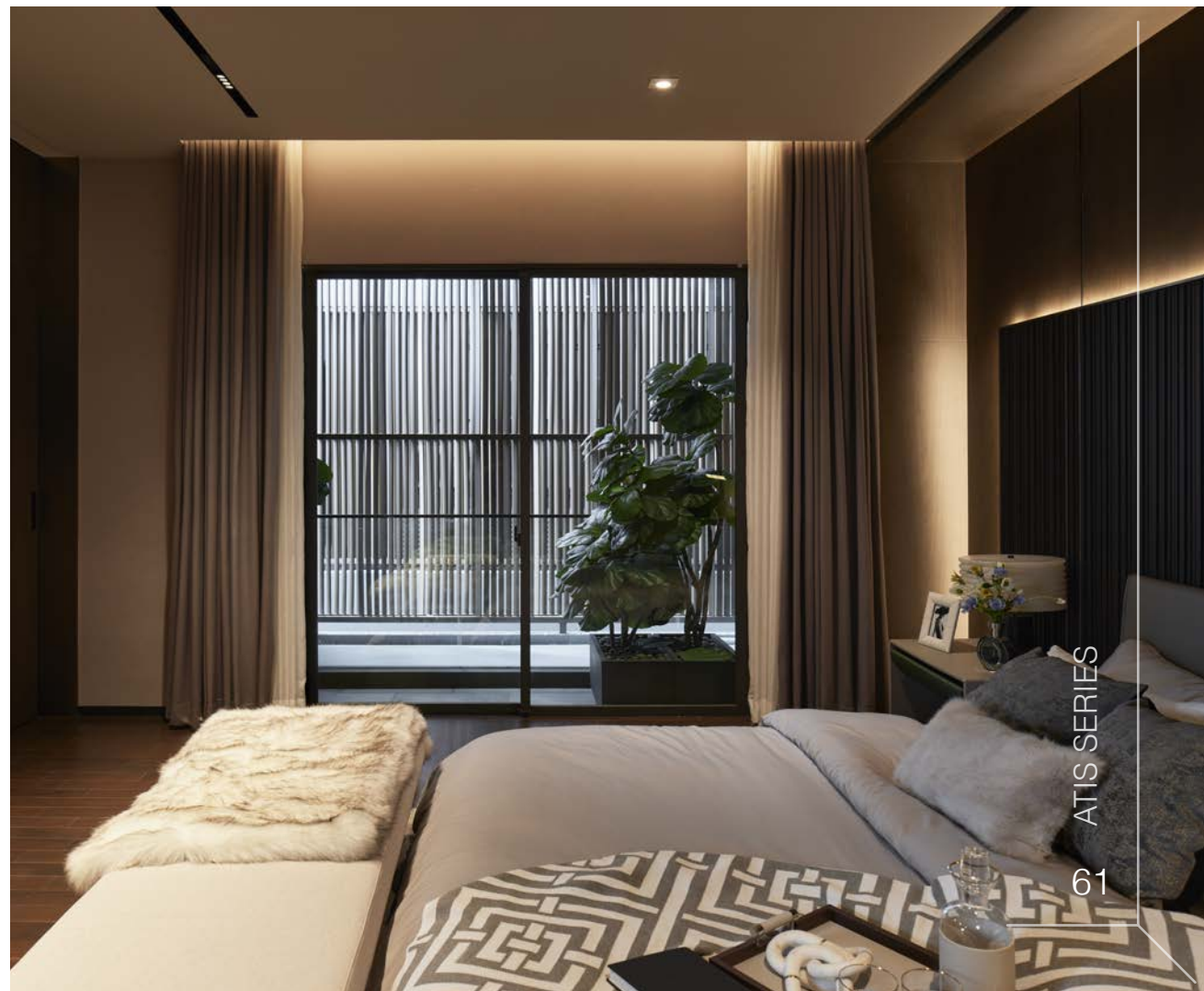


- Frame depth: 88 mm
- Door closer NOT available
- Select from L/R
- Glazing finish : Glazing channel



## 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

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



WATER TIGHTNESS

W-3 (250PA)  
(JIS A 1517)



AIR TIGHTNESS

A-4 (2)  
(JIS A 1516)



NOISE INSULATION<sup>\*1</sup>

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



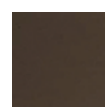
NATURAL  
WHITE



NATURAL  
SILVER



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



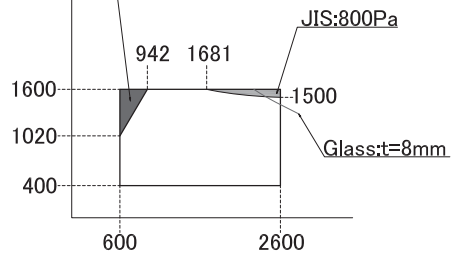
NATURAL  
BLACK

## SLIDING (2P2T)



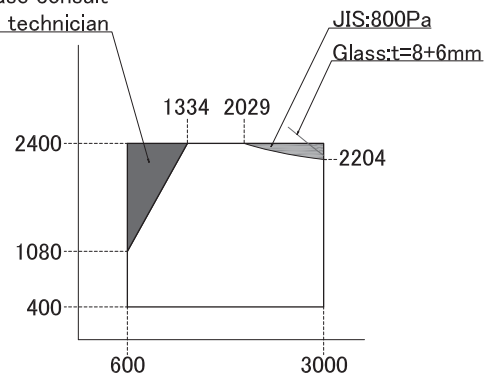
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Select from panel type A to D
- Glazing finish: Glazing channel

Please consult with technician



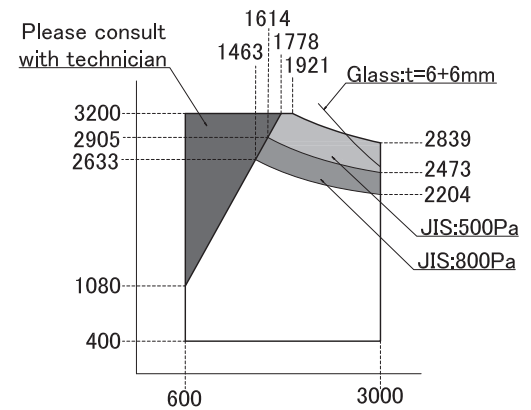
**TYPE-A**

Please consult with technician



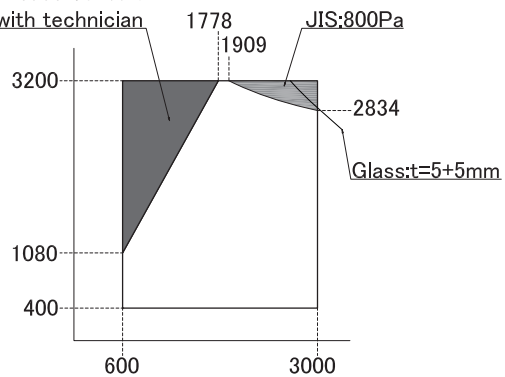
**TYPE-B**

Please consult with technician



**TYPE-C**

Please consult with technician



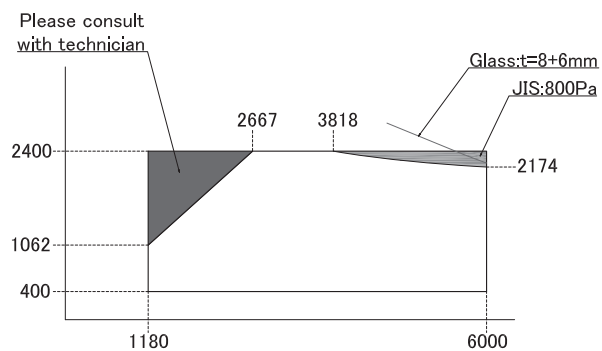
**TYPE-D**

# ATIS

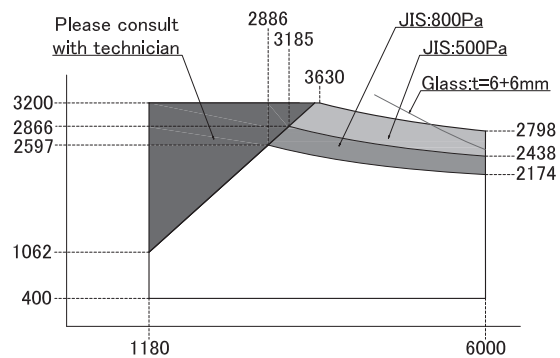
## SLIDING (4P2T)



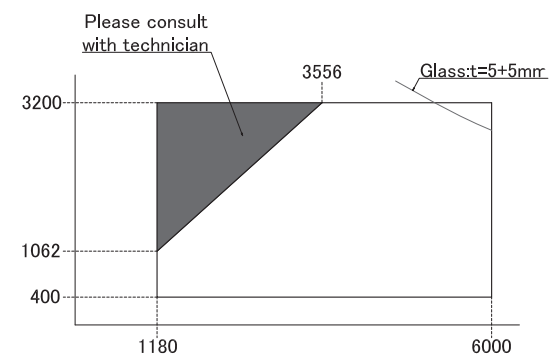
- Frame depth: 88 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Safety arm (Optional)
- Flat attachment (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



**TYPE-B**



**TYPE-C**



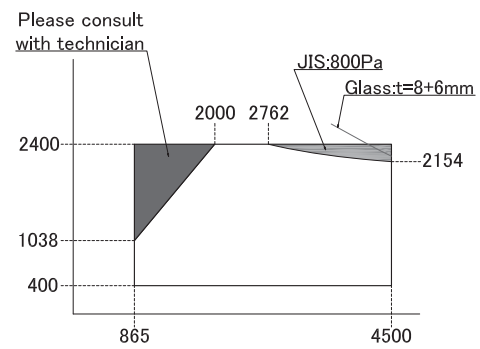
**TYPE-D**

# ATIS

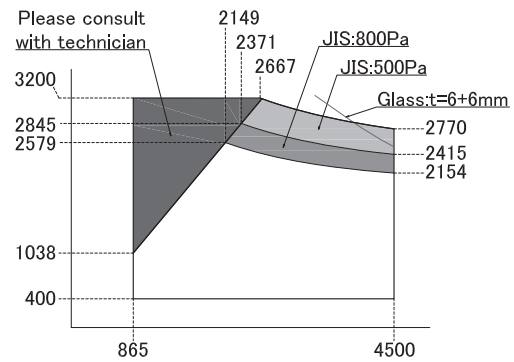
## SLIDING (3P3T)



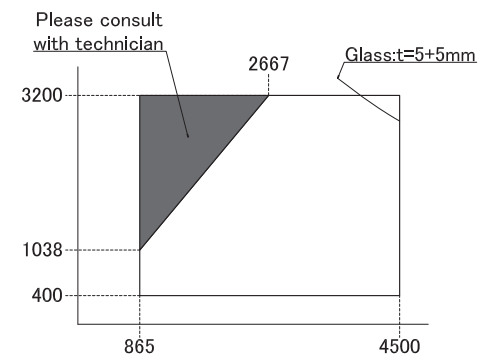
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



**TYPE-B**



**TYPE-C**



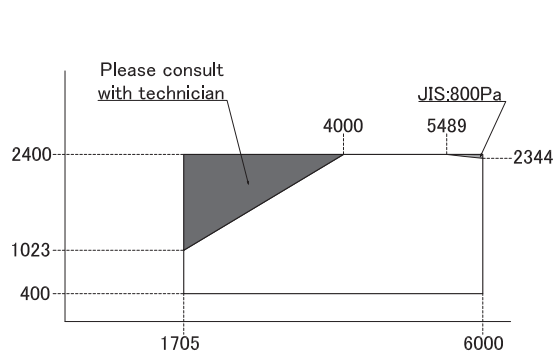
**TYPE-D**

# ATIS

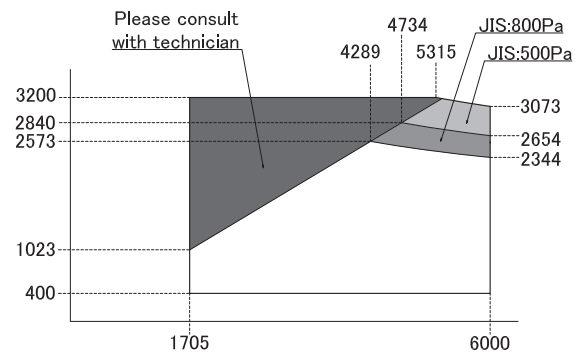
## SLIDING (6P3T)



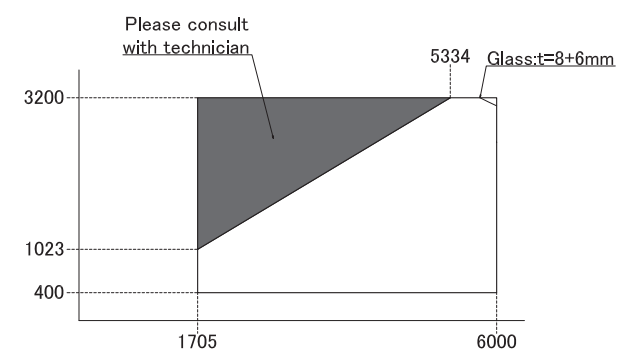
- Frame depth: 131.5 mm
- Select from in/outside insect screen
- Select sill from standard or floor finish
- Security arm (Optional)
- Select from panel type B to D
- Glazing finish: Glazing channel



**TYPE-B**



**TYPE-C**



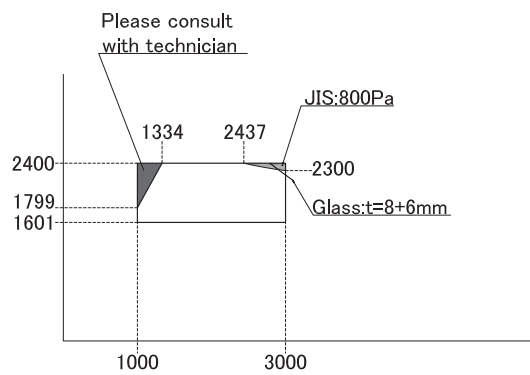
**TYPE-D**

# ATIS

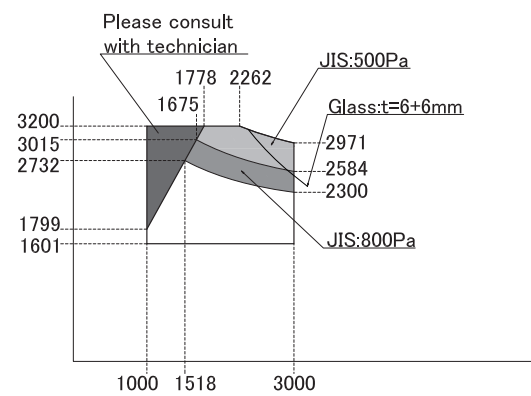
## ENTRANCE SLIDING (2P2T)



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



**TYPE-B**



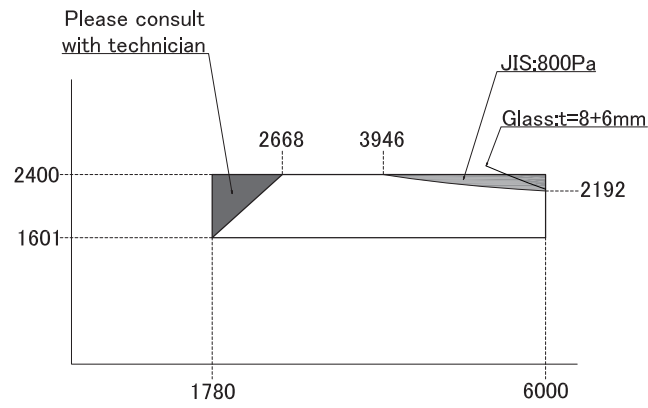
**TYPE-C**

# ATIS

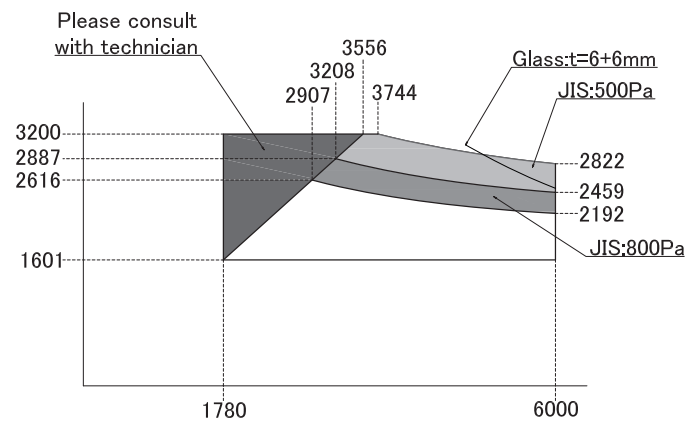
## ENTRANCE SLIDING (4P2T)



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



**TYPE-B**



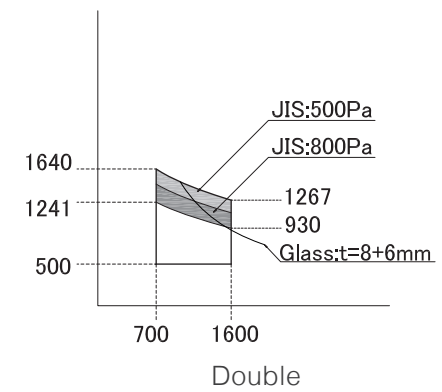
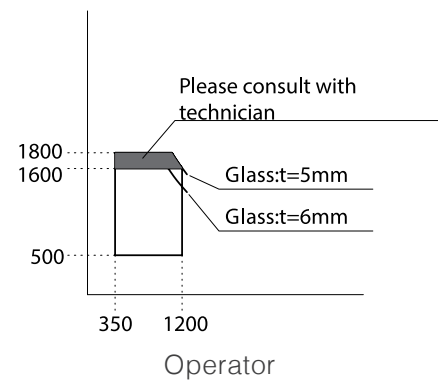
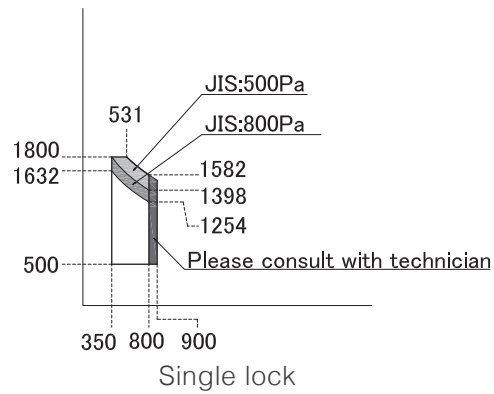
**TYPE-C**

# ATIS

## CASEMENT WINDOW



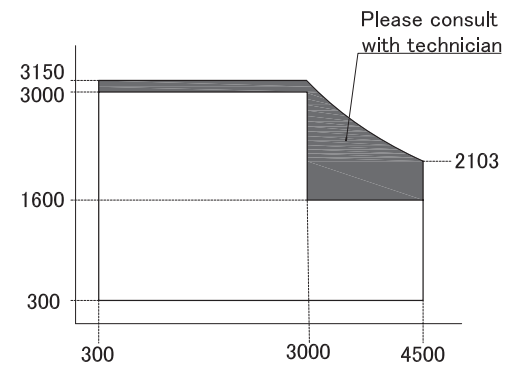
- Frame depth: 88 mm
- Select from L/R
- Swing screen available for single lock and double type
- Smart screen available for operator type
- Safety arm (Optional)
- Glazing finish : Glazing channel



## 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)

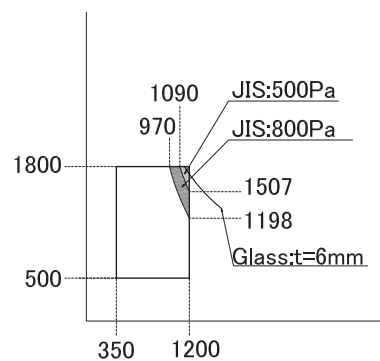


# ATIS

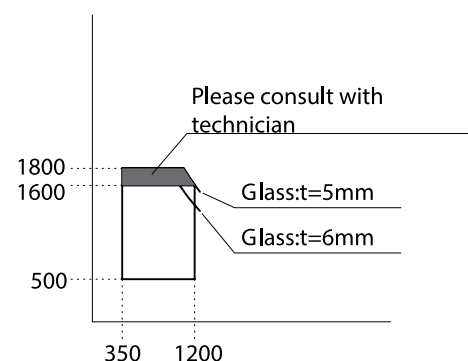
## AWNING WINDOW



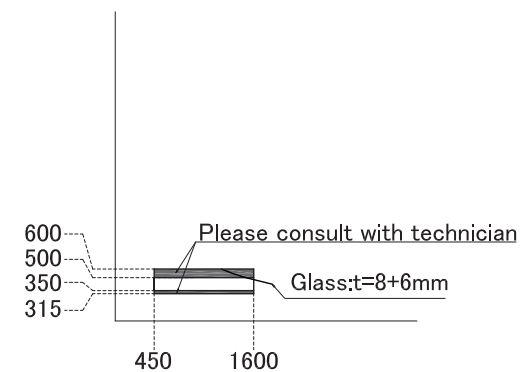
- Frame depth: 88 mm
- Swing screen available for single lock type
- Smart screen available for operator & slit window type
- Glazing finish : Glazing channel



Single lock



Operator

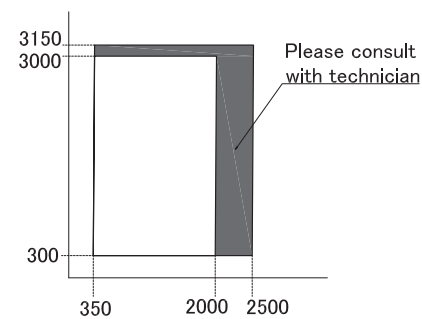


Slit window

## 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)

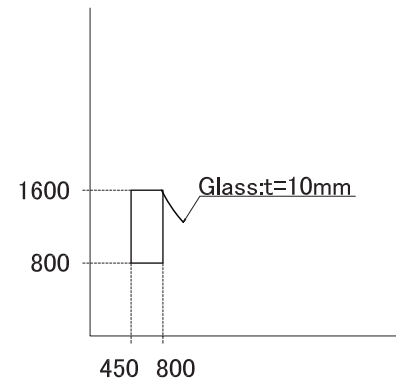


# ATIS

## TILE & SLIDE WINDOW



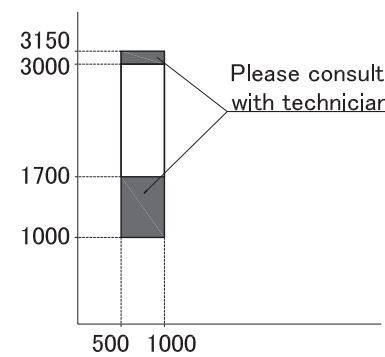
- Frame depth: 88 mm
- Only outside insect screen available
- Glazing finish: Glazing channel



## OUT-SWING DOOR (SINGLE LEAF)



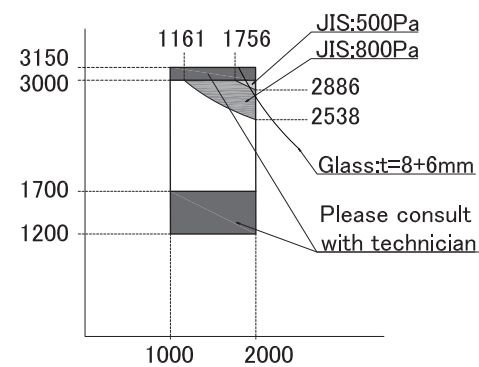
- Frame depth: 88 mm
- Door closer NOT available
- Select from L/R
- Glazing finish : Glazing channel



## OUT-SWING DOOR (DOUBLE LEAF)



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

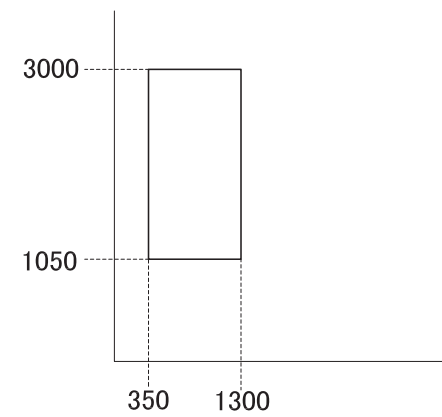
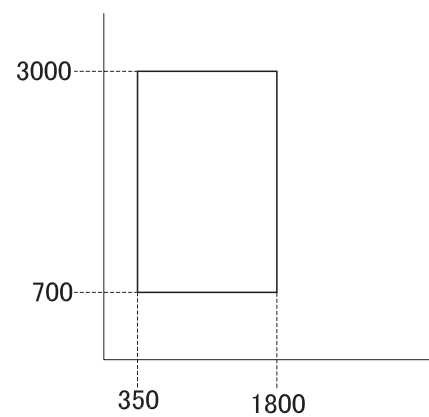
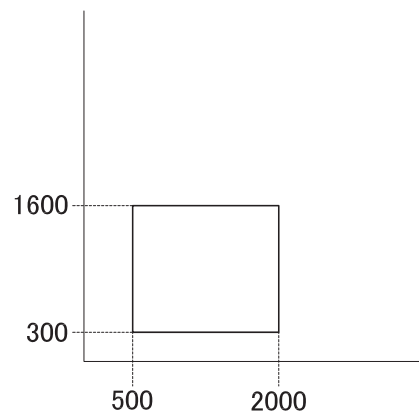


# ATIS

## FIXED UNIT 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)



ATIS SERIES





# 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



Closed



Fully opened

**A**

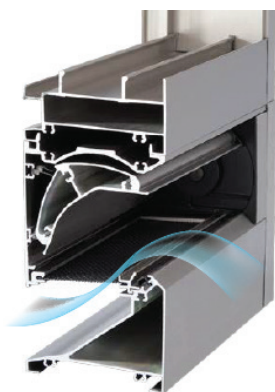
Least opened

**B**

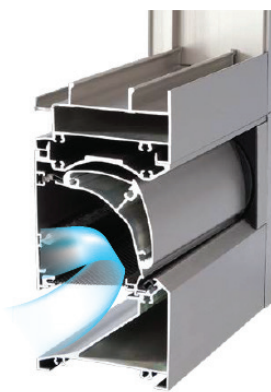
**A** Fully open to allow ventilation while the door remains closed. Draws in fresh air and clears out irritating odors and moisture through natural convection.

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

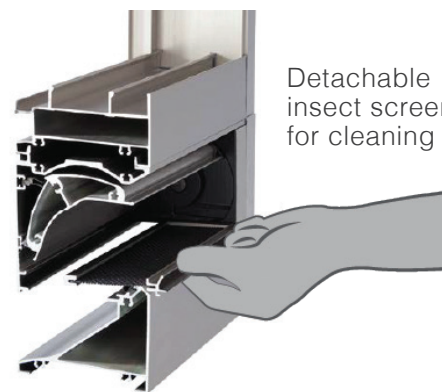
## AIRFLOW SLOT



Smooth operation with bearing rollers



Air tightness: JIS A-3 when closed



Detachable insect screen for cleaning

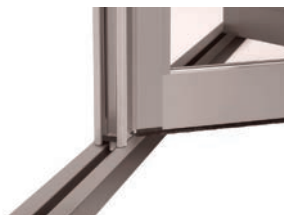
\* Available with all windows



## FOLDING DOOR



Watertight sill with drainage system



Flat sill is available and allows barrier-free passage



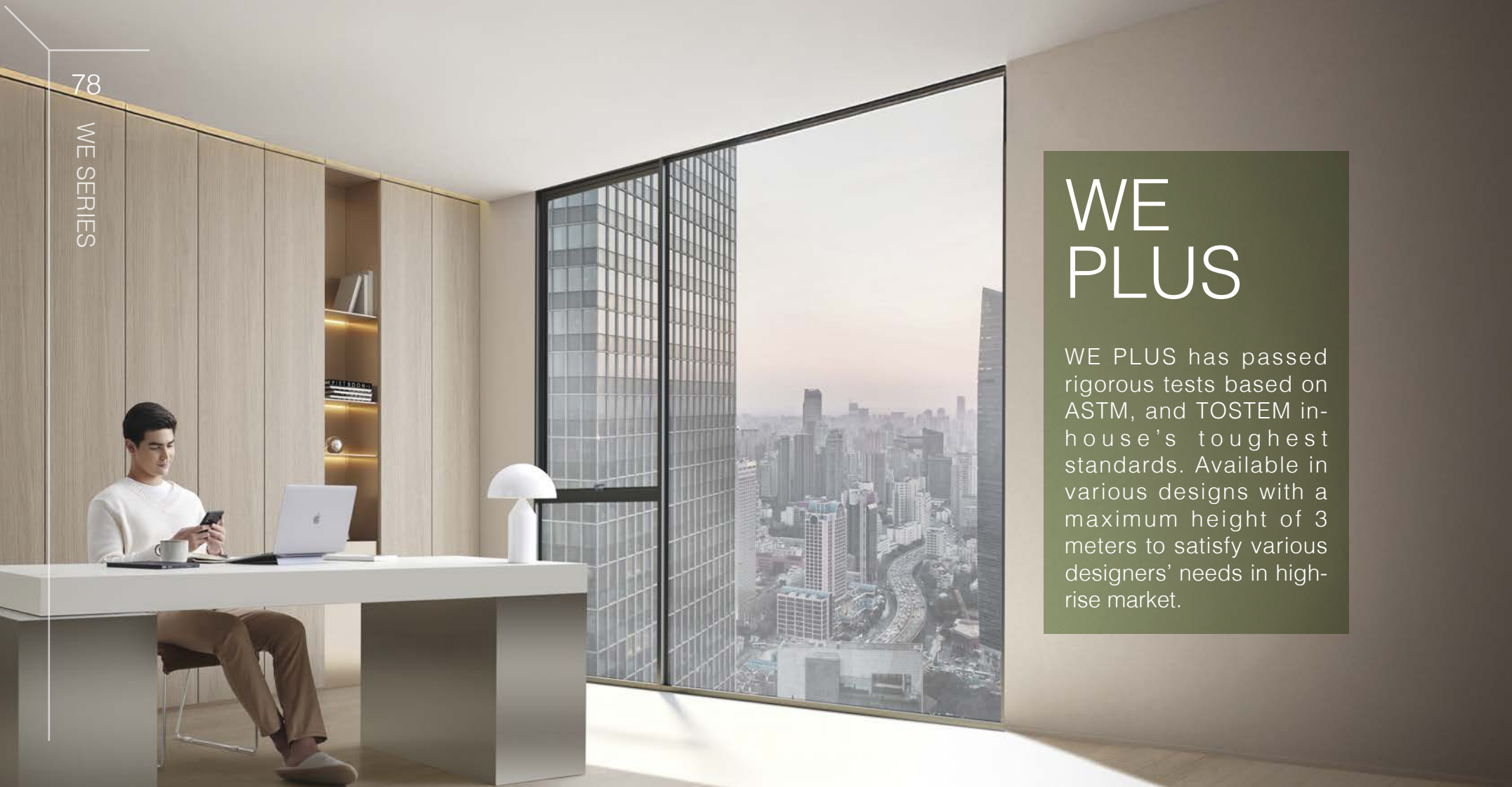
Smart designs prevent finger injuries



Hinge-less design

## 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

1600PA  
(ASTM E330)



WATER TIGHTNESS

240PA  
(ASTM E331)



AIR TIGHTNESS

10.7M<sup>3</sup>/H.M<sup>2</sup>  
(ASTM E283)



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.

## COLORS



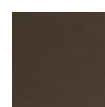
NATURAL  
WHITE



NATURAL  
SILVER



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



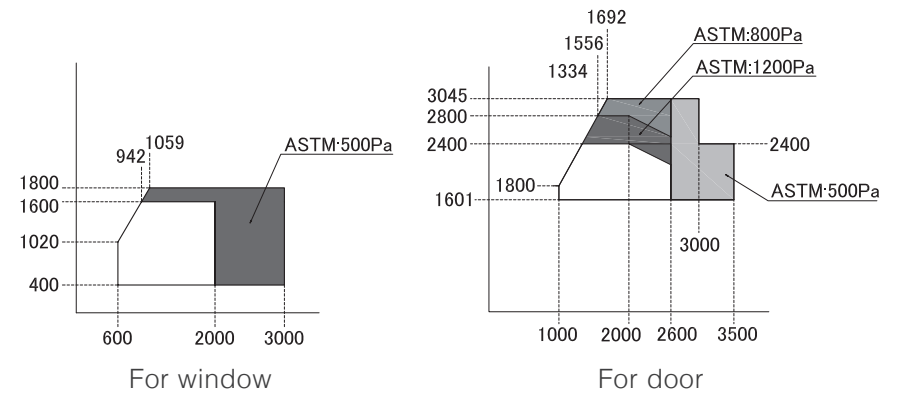
NATURAL  
BLACK

# WE PLUS

## SLIDING (2P2T)



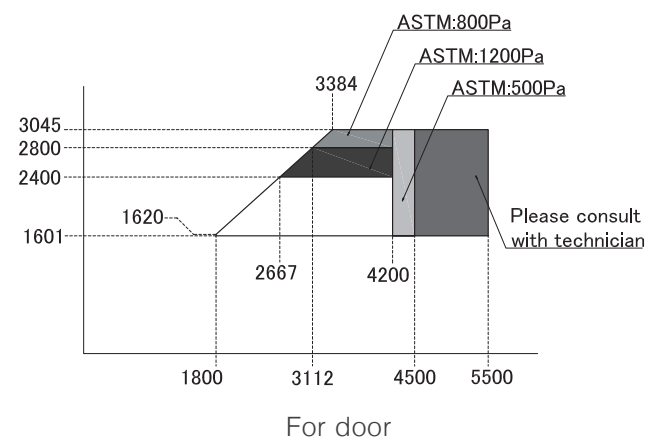
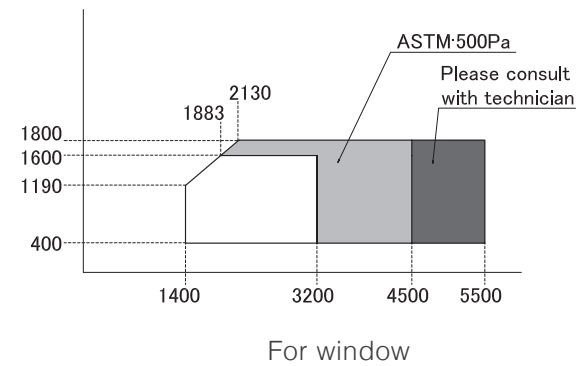
- Frame depth: 72 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## SLIDING (4P2T)



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

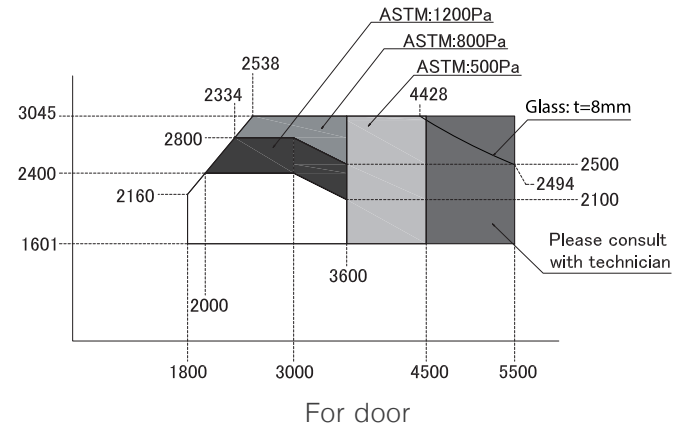
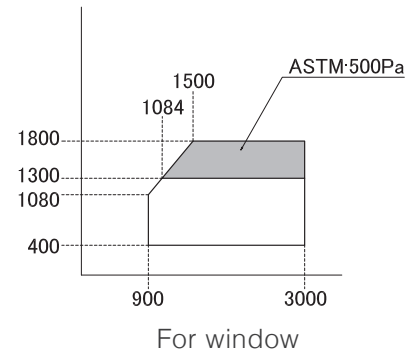


# WE PLUS

## SLIDING (3P3T)



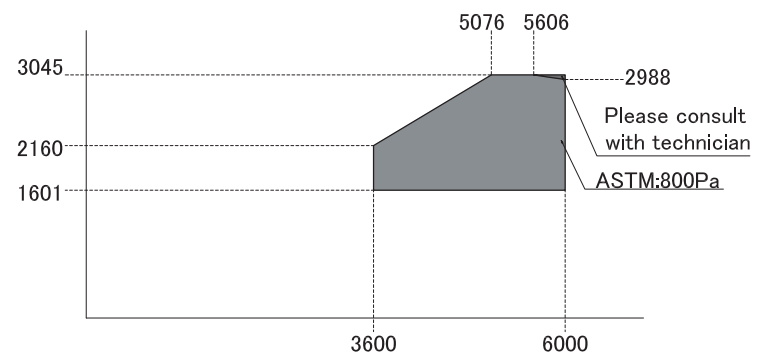
- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## SLIDING (6P3T)



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

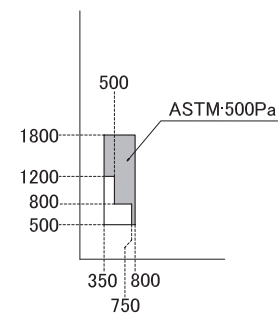


# WE PLUS

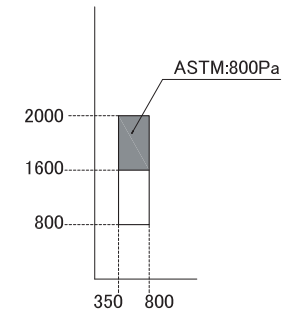
## CASEMENT WINDOW



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



Single lock

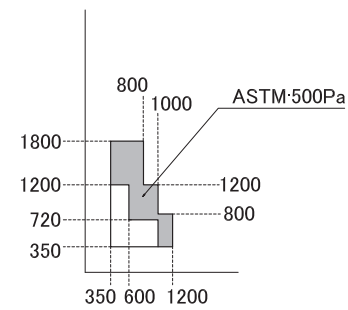


Multi lock

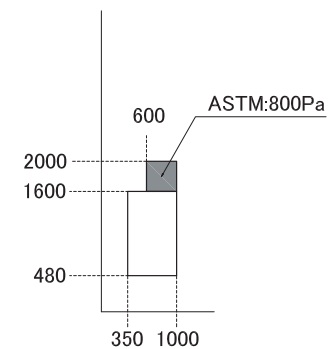
## AWNING WINDOW



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



Single lock

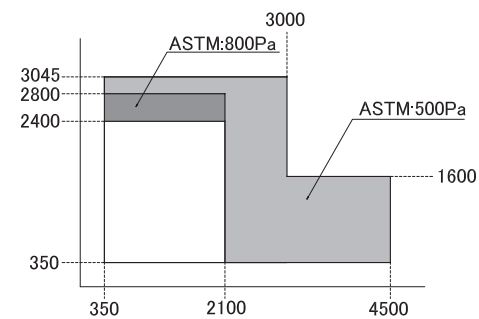


Multi lock

## FIXED WINDOW

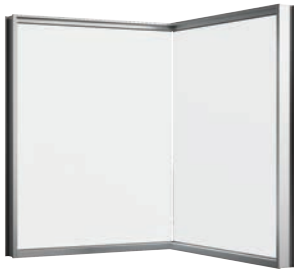


- Frame depth: 72 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead

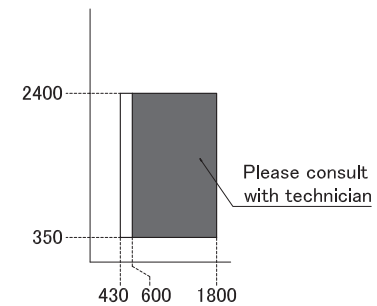


# WE PLUS

## CORNER FIXED WINDOW



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

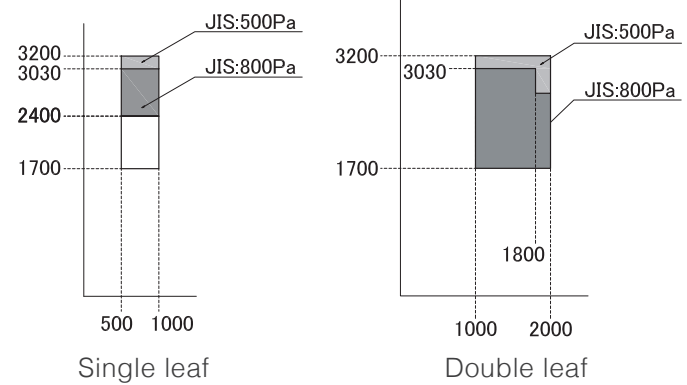


## OUT-SWING DOOR



- 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

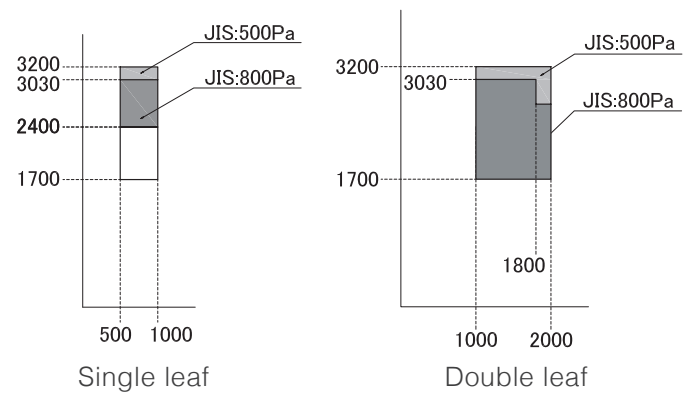


## IN-SWING DOOR



- 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	●	●	●





# WE 70

WE 70 series brings legendary TOSTEM quality to everyday life. Built for the mass market, yet maintaining strict quality standards. The WE 70 series is priced within everyone's reach.

<b>SPECIFICATIONS</b>	FRAME DEPTH	72 mm 104 mm (3 tracks sliding)		
	HEIGHT OF SILL	35 mm		
	GLASS THICKNESS	5, 6, 8 mm		
<b>PERFORMANCES</b>	 WIND PRESSURE	 WATER TIGHTNESS	 AIR TIGHTNESS	 NOISE INSULATION
	500PA - 800PA (JIS A 1515)	W-2: 150PA (JIS A 1517)	A-3: 10M <sup>3</sup> /H.M <sup>2</sup> (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



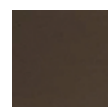
NATURAL  
WHITE



NATURAL  
SILVER



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



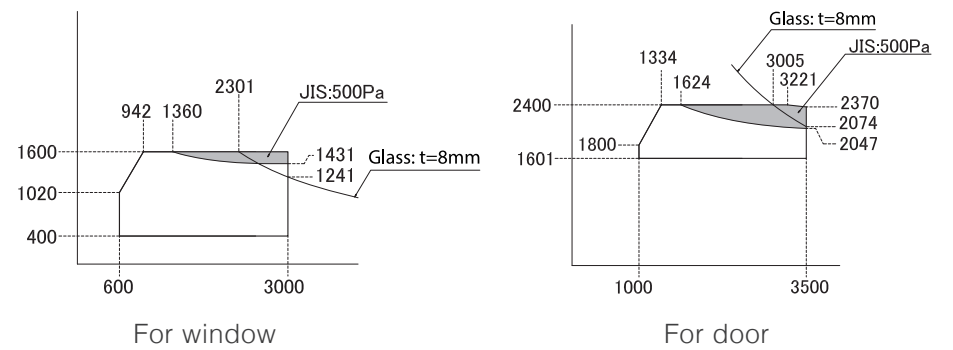
NATURAL  
BLACK

# WE 70

## SLIDING (2P2T)



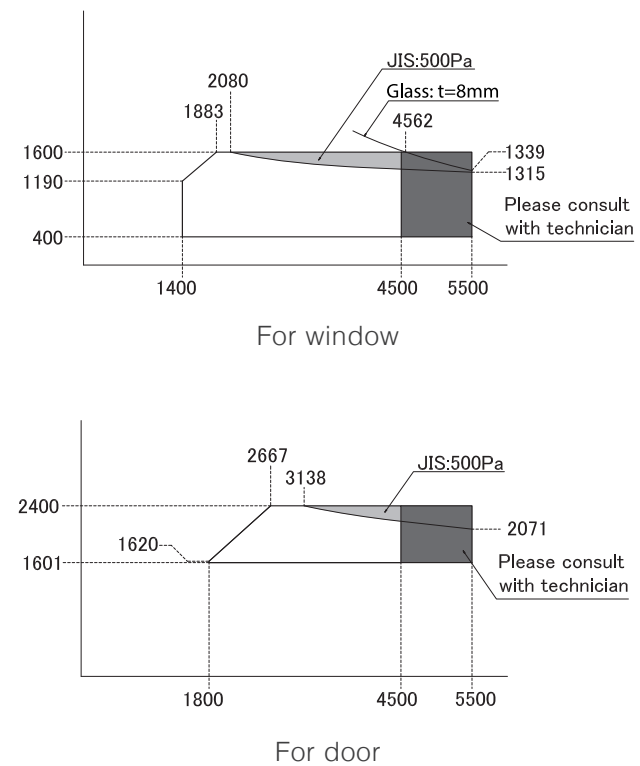
- Frame depth: 72 mm
- Inside insect screen available
- Select panel position from L/R
- Single slider (FS, SF) available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## 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

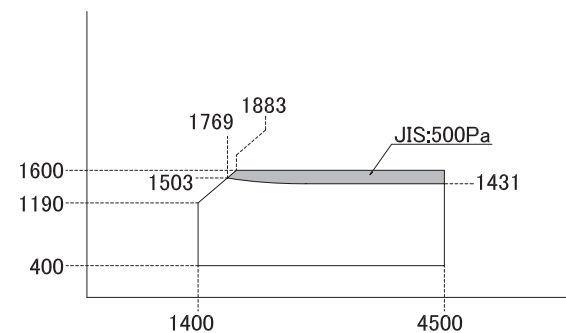


## WE 70

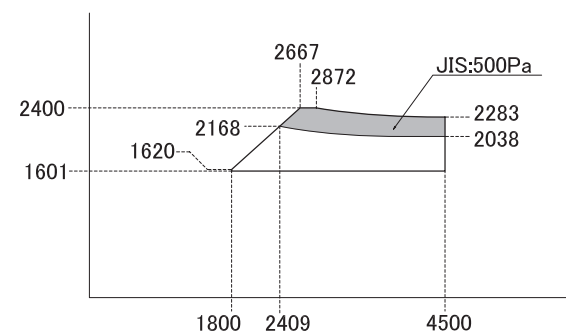
## SLIDING (3P2T) SFS



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



For window

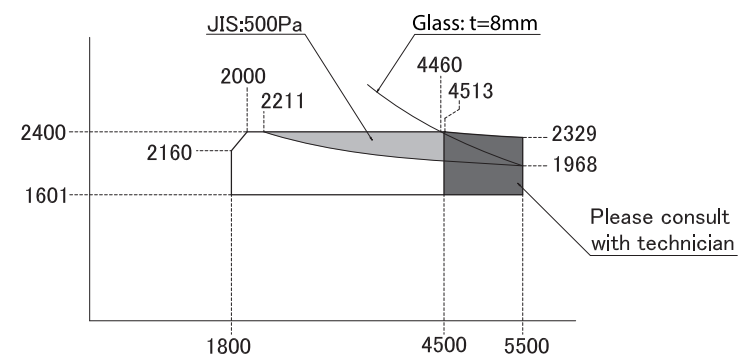


For door

## SLIDING (3P3T)



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

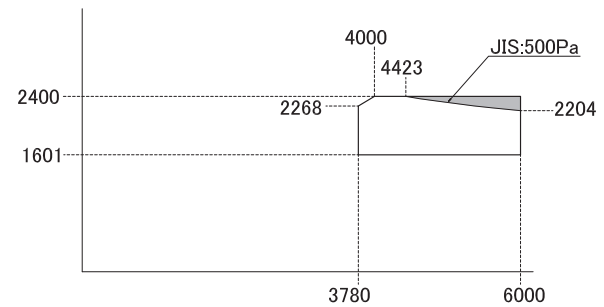


# WE 70

## SLIDING (6P3T)



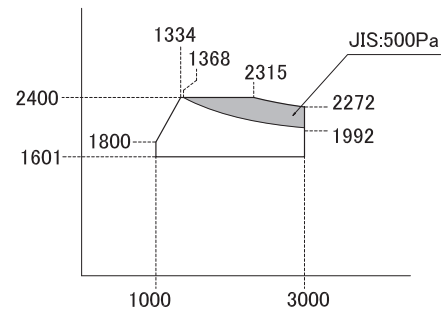
- Frame depth: 104 mm
- Inside insect screen available
- Select sill from standard or floor finish
- Glazing finish: Glazing channel



## ENTRANCE SLIDING (2P2T)



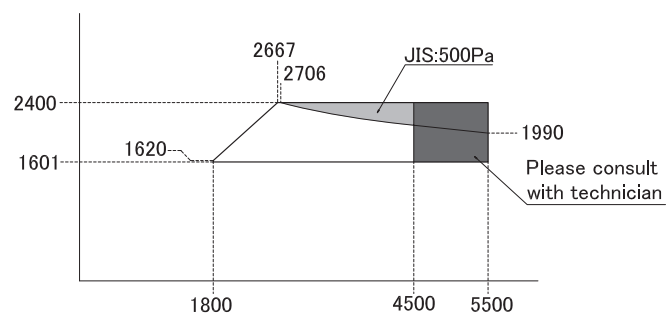
- Frame depth: 72 mm
- Only outside insect screen
- Select panel position from L/R
- Single slider (FS, SF) available
- Glazing finish: Glazing channel



## ENTRANCE SLIDING (4P2T)



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



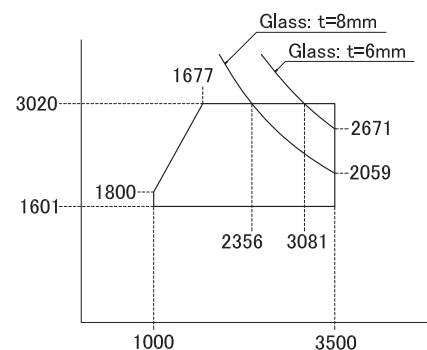
# WE 70

## PARTITION DOOR (2P2T)



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

\* No performance determined

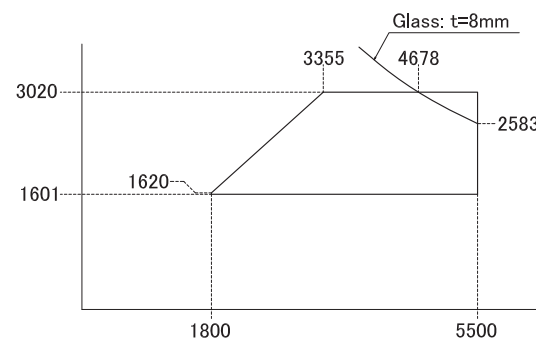


## PARTITION DOOR (4P2T)



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

\* No performance determined

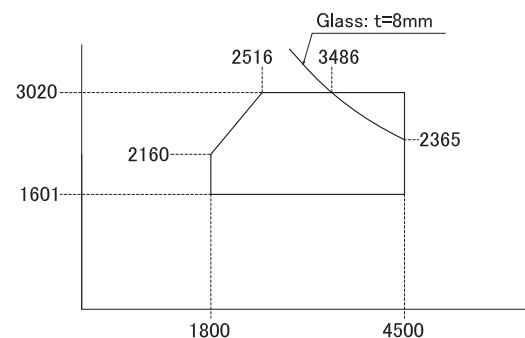


## PARTITION DOOR (3P3T)



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

\* No performance determined



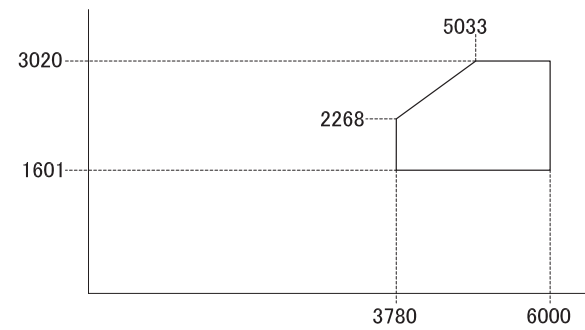
# WE 70

## PARTITION SLIDING (6P3T)



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

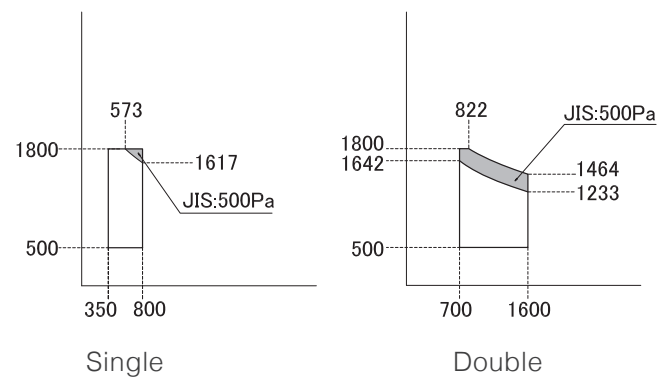
\* No performance determined



## CASEMENT WINDOW



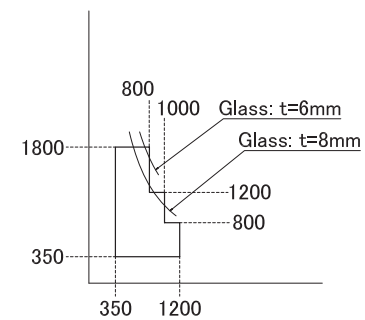
- Frame depth: 72 mm
- Select from L/R
- Swing screen available
- Glazing finish: Glazing channel



## AWNING WINDOW



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

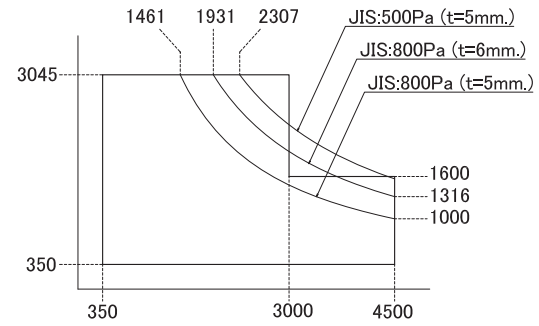


# WE 70

## FIXED WINDOW



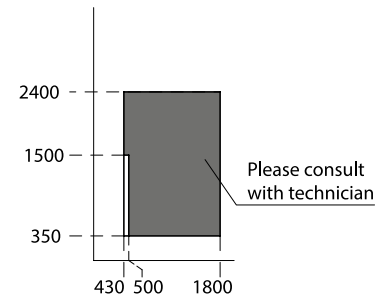
- Frame depth: 72 mm
- Wind load performance varies by glass thickness, please consult with our technician
- Glazing finish: Glazing bead



## CORNER FIXED WINDOW



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

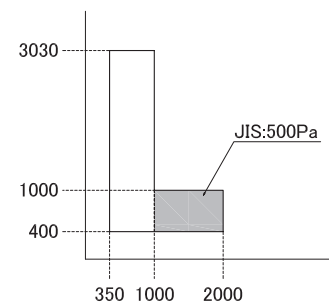


## ALUMINUM LOUVER



- Frame depth: 72 mm

\* No air and water performance determined

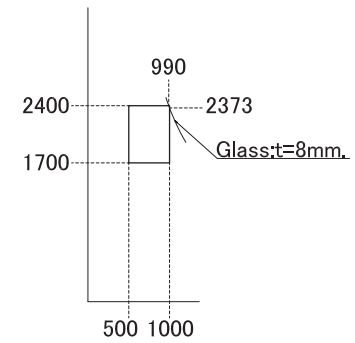


# WE 70

## AIRFLOW DOOR



- Frame depth: 72 mm
- Door closer (Optional)
- Select from L/R
- Lattice with screen available
- 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 channel

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

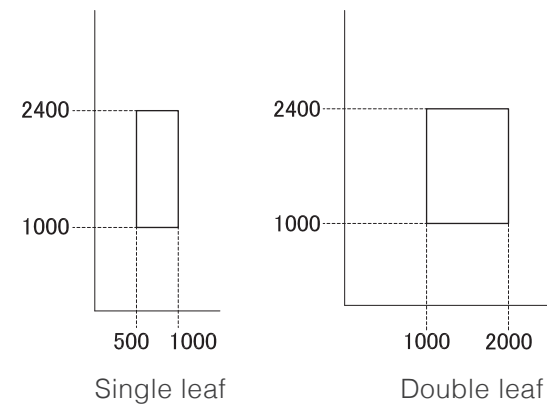


## IN-SWING DOOR



- 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



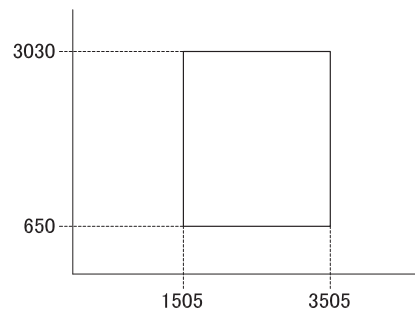
# WE 70

## FOLDING DOOR

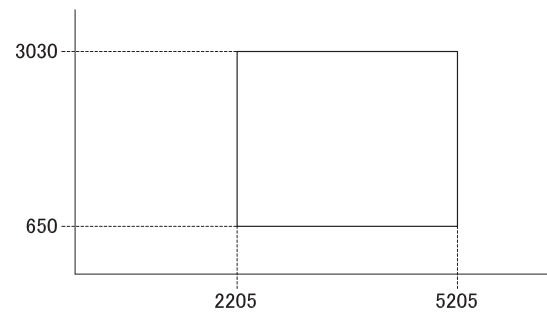


- Frame depth: 72 mm
- Select from standard sill or flat sill
- Pleated insect screen (Optional)
- 1 panel max weight : 40 kg
- 1 panel max width : 850 mm
- Select from (one way open, both way open, or center open)
- For 12 panels and 16 panels, only center open is available
- Glazing finish: Glazing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

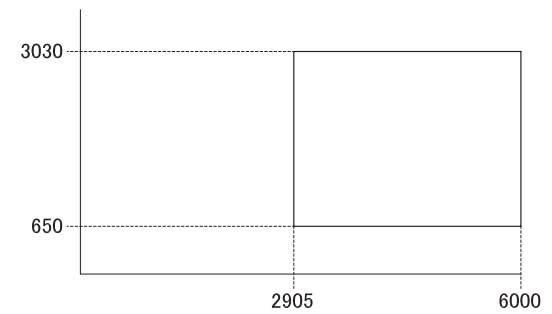
\* No air and water performance determined



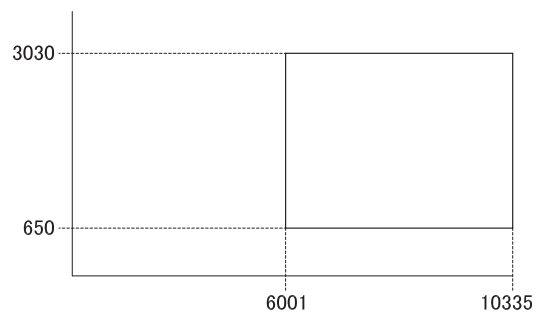
4 panels



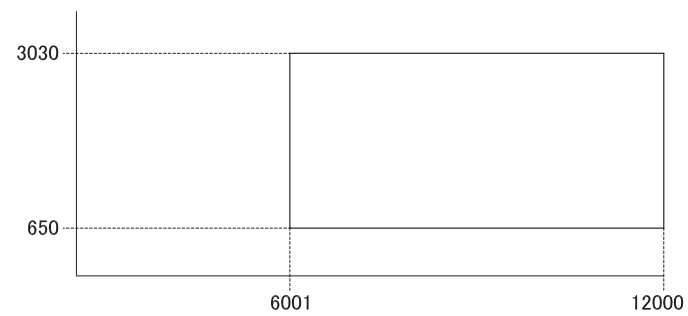
6 panels



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: 10M <sup>3</sup> /H.M <sup>2</sup> (JIS A 1516)	N/A (JIS A 1416)

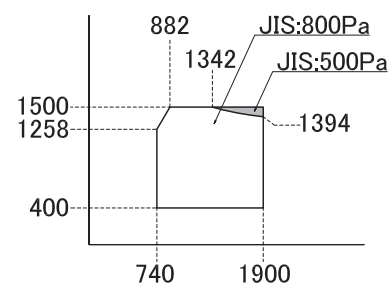
Sound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

## WE 40

### SINGLE SLIDING WINDOW



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

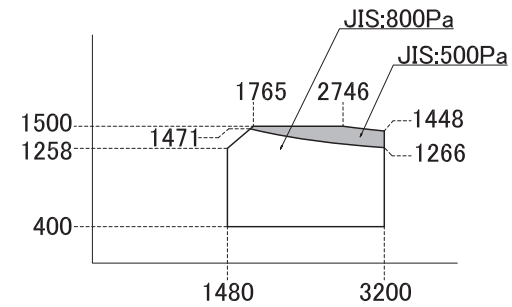


# WE 40

## CENTER SLIDING WINDOW (FSSF)



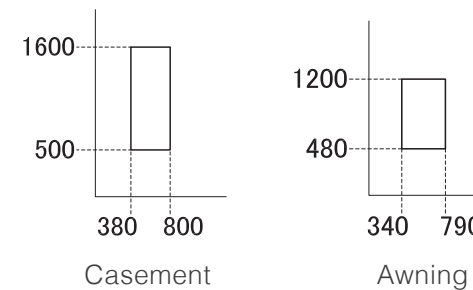
- Frame depth: 41 mm
- Outside insect screen available
- Select panel position from L/R
- Glazing finish: Glazing channel



## CASEMENT AND AWNING WINDOW



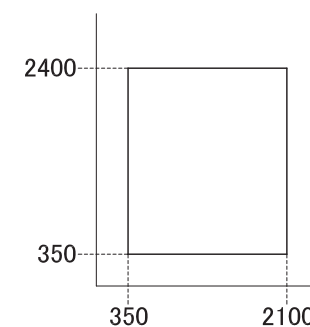
- Frame depth: 41 mm
- Select from L/R for awning window
- Insect screen NOT available
- Glazing finish: Glazing channel



## 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

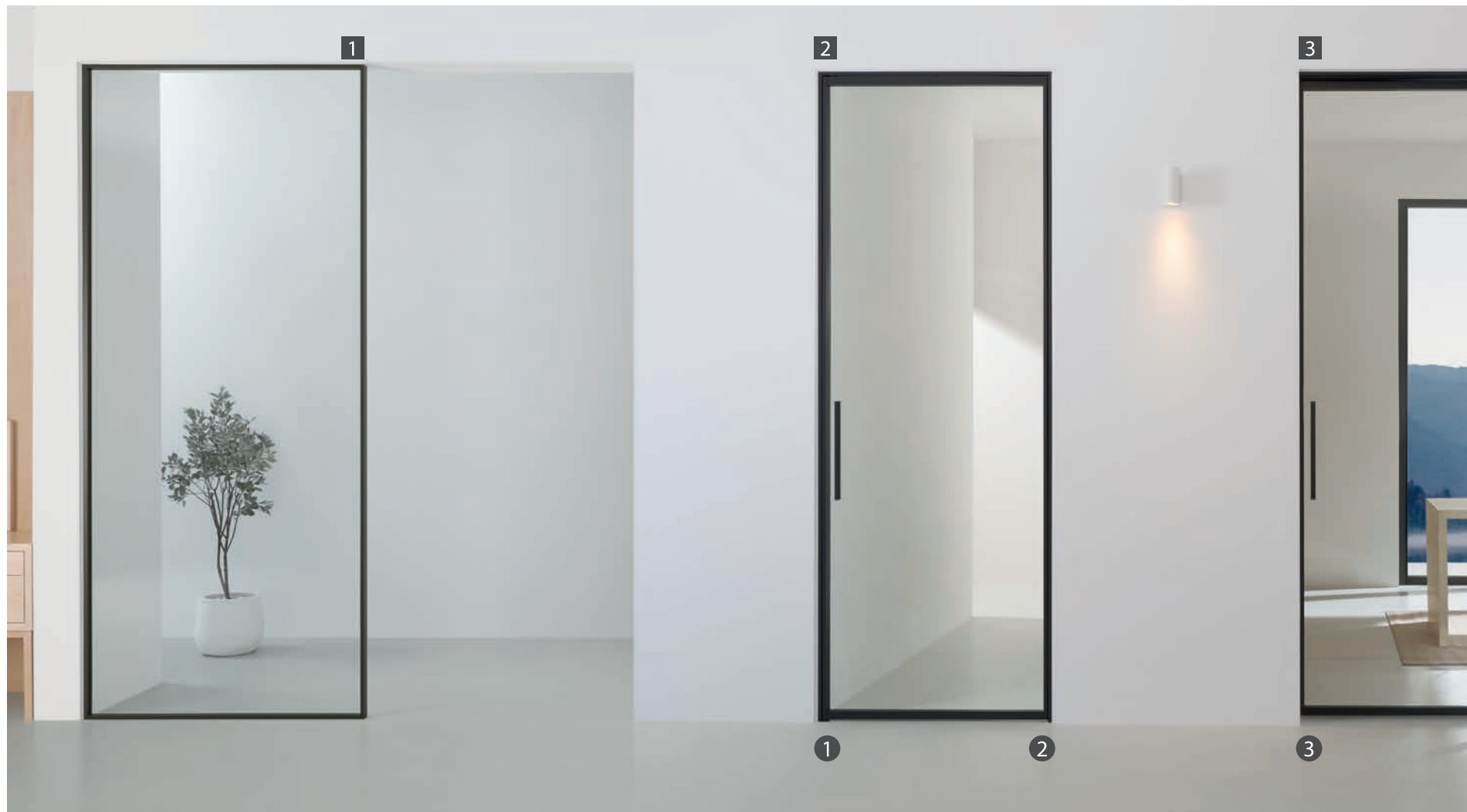
Introducing IN16, TOSTEM's new interior series – designed to bring smooth transitions, invisible boundaries, and a boundless sense of openness to your home.



# 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

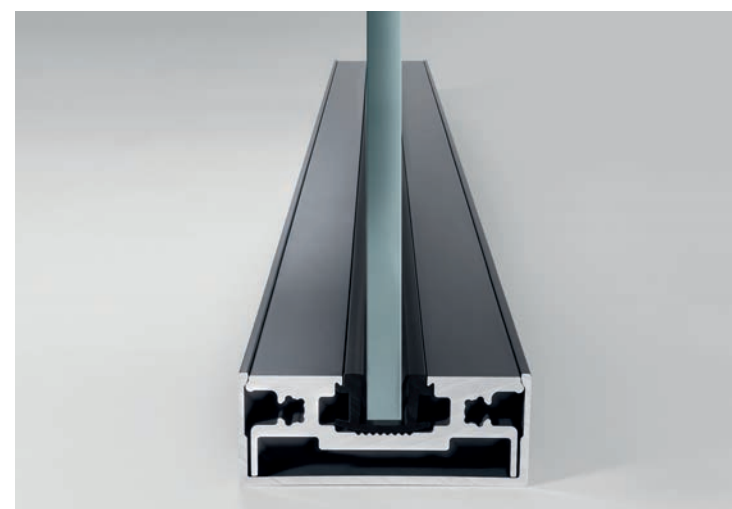




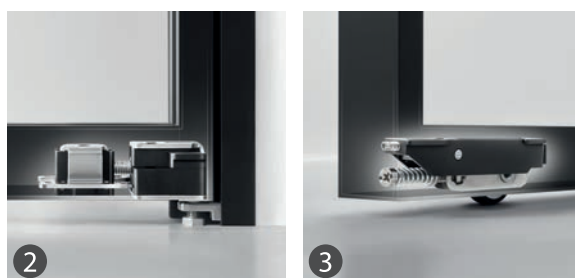
## REFINED & PREMIUM



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.

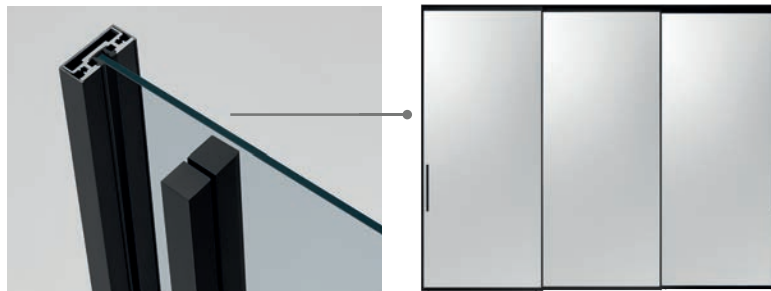


## HANGING DOOR

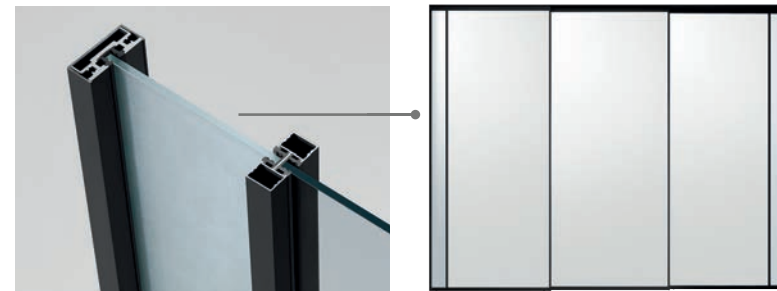
Redefines modern design with its sleek and unified vertical profiles that create a clean, seamless look. TOSTEM's advanced materials ensure smooth, silent operation while maintaining durability and style.



## 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, a compact and minimalist option, blends effortlessly with the door's sleek profile. The divider handle extends from floor to ceiling, creating a strong vertical accent. Both handles share the same size proportions, color palette, and material finish, ensuring seamless visual harmony.



## SOFT CLOSE

Smooth and enhance safety, adding a touch of elegance.



## TELESCOPIC MOTION

Connected and smooth operation seamlessly adapt into various spaces.



## SUSPENSION ROLLER

Ensure smooth and stable sliding system.

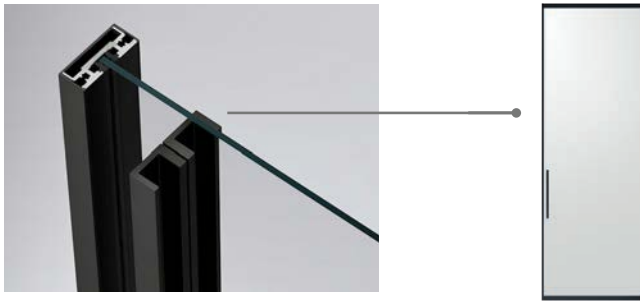


## SWING DOOR

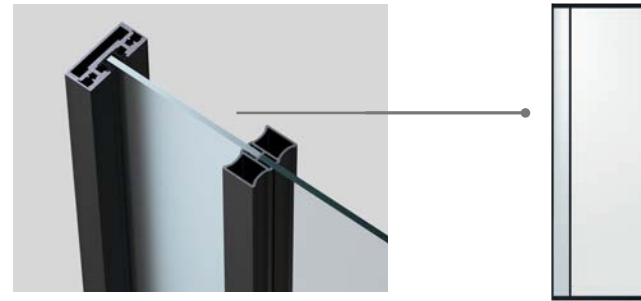
Offers smooth, stable operation with minimal, clean design and unified profiles create a refined look, seamlessly integrating into any interior space.



## 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, a compact and minimalist option, blends effortlessly with the door's sleek profile. The divider handle extends from floor to ceiling, creating a strong vertical accent and can also be applied horizontally, offering greater design flexibility. Both handles share the same size proportions, color palette, and material finish, ensuring seamless visual harmony.



## SOFT CLOSE

Add a touch of sophistication to every movement.

## PANEL CATCH (OPTIONAL)

Enhance functionality and minimize visual interruptions.



## BOUNDLESS FLOOR

A rail-free design that removes boundaries, creating a seamless flow between spaces for connected living.



### **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.



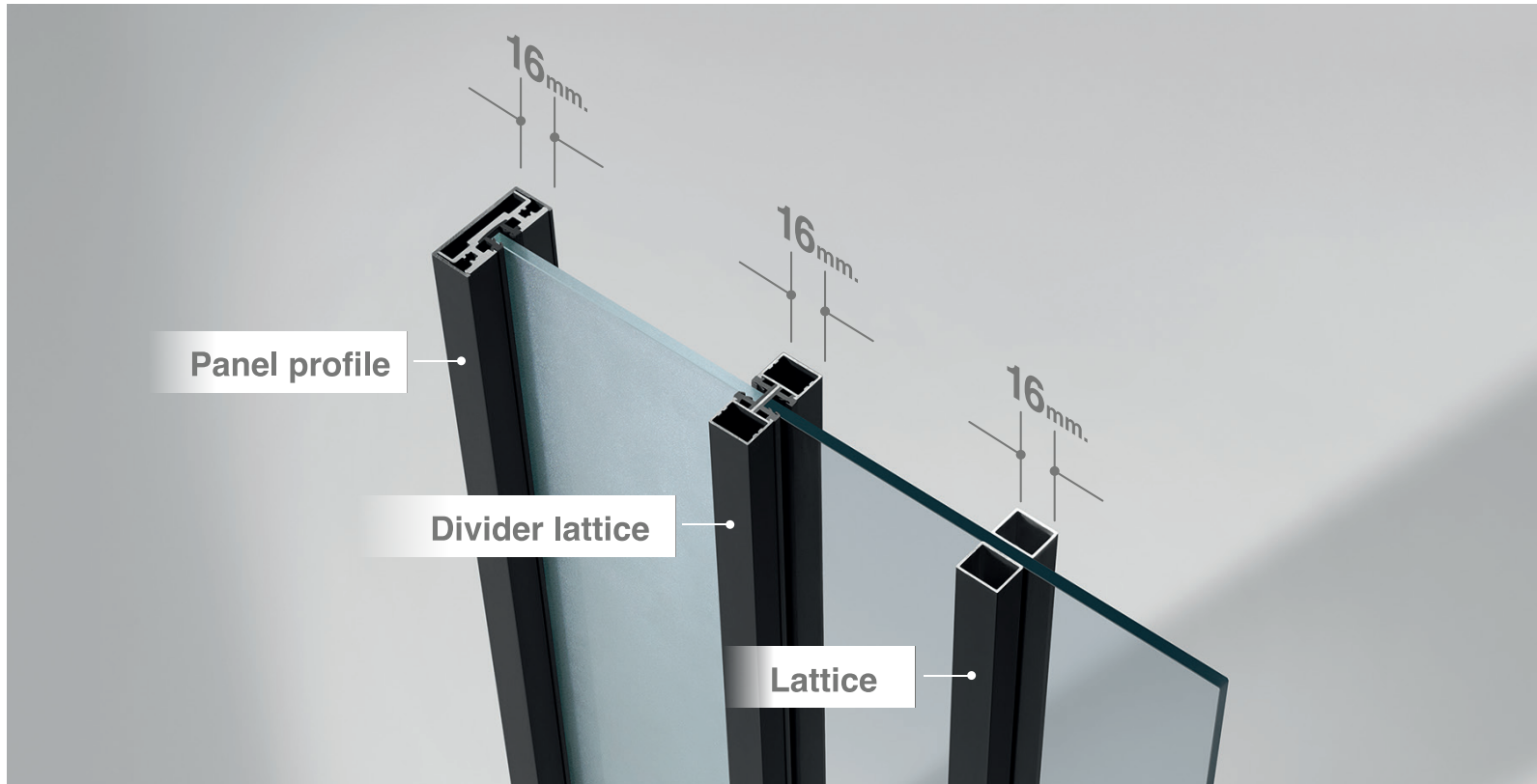
## ONE DIVIDER, INFINITE DESIGN

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.

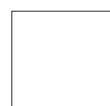
# IN16 Series

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)		

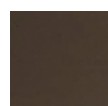
## COLORS



NATURAL  
WHITE



SHINE  
GRAY



AUTUMN  
BROWN



DUSK  
GRAY



NATURAL  
BLACK

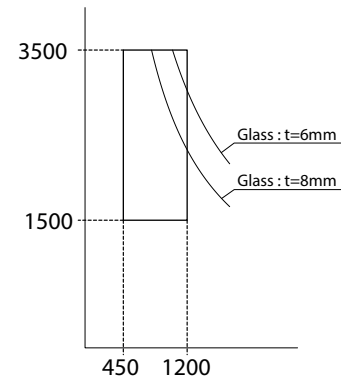
# IN16 series

## HANGING DOOR

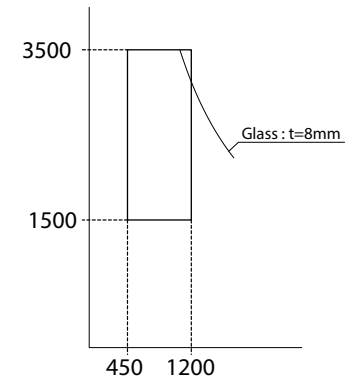


- Graph shows size limitation for 1 panel
- Lock (optional)

Telescopic type



Detached type

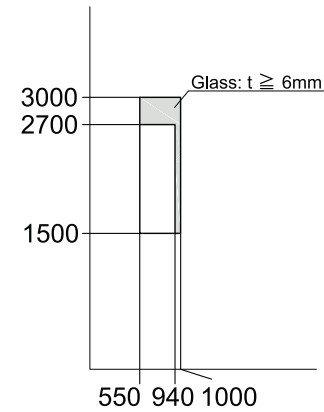


## SWING DOOR

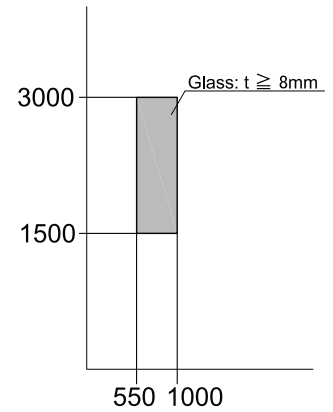


- Select from LR
- Lock (optional)
- Panel catch (optional)

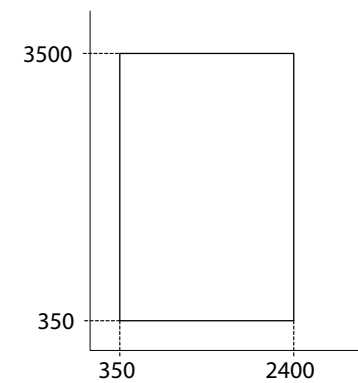
Without lock, divider handle, and divider lattice



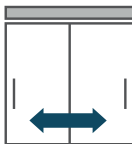
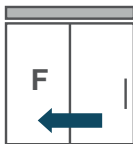
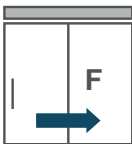
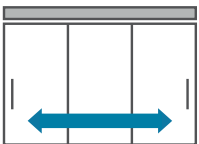
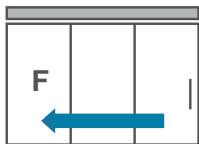

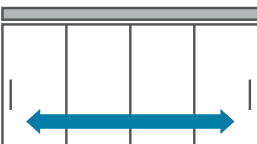
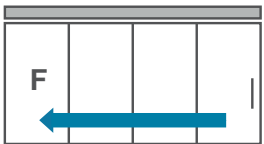
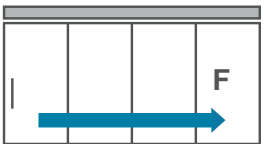
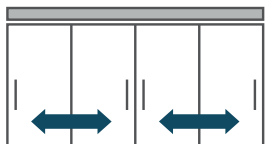



With lock, divider handle, or divider lattice

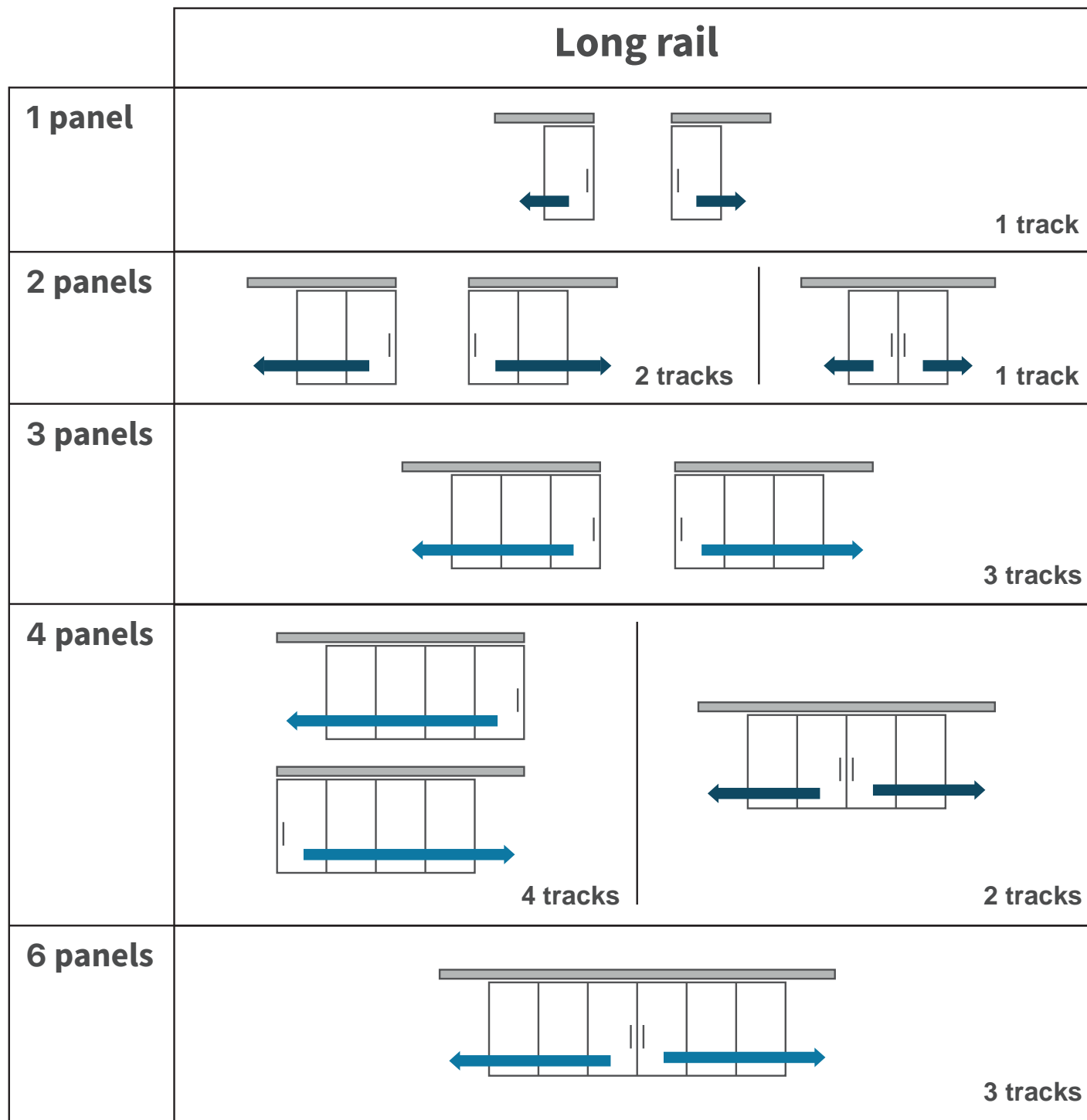


## FIXED DIVIDER



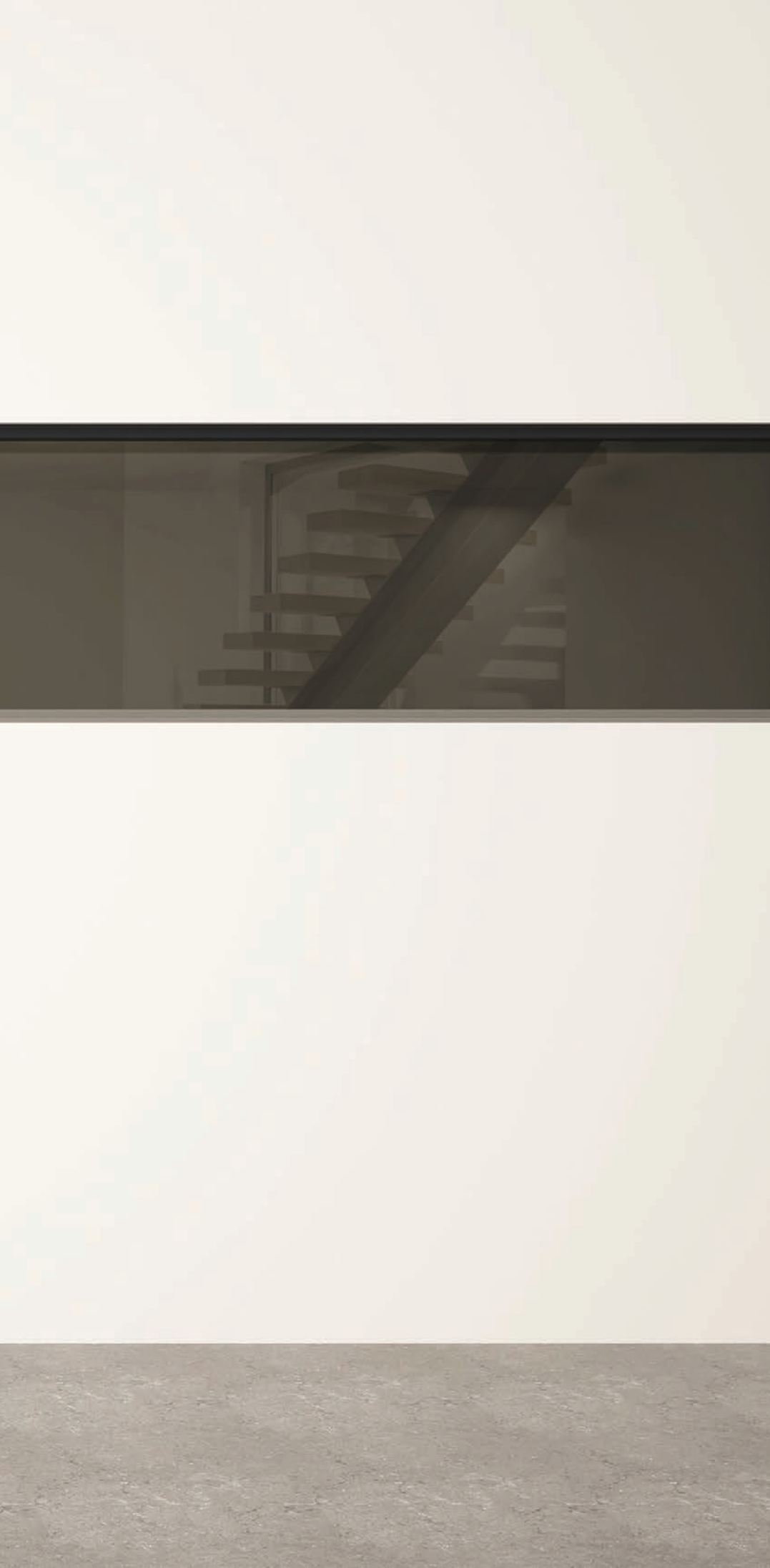
**HANGING DOOR**

	<b>Standard rail</b>	
<b>1 panel</b>		
<b>2 panels</b>	  	<b>2 tracks</b>
<b>3 panels</b>	  	<b>3 tracks</b>
<b>4 panels</b>	  	<b>4 tracks</b>
	 	<b>2 tracks</b>
<b>6 panels</b>	 	<b>3 tracks</b>



Detached type     
  Telescopic type





# ENTRANCE DOOR Category

# GIESTA Series

High quality wood-pattern or metallic finish-doors equipped with user-friendly handle with high security lock system gives better convenience to both family and visitors and make us feel glad to be home.



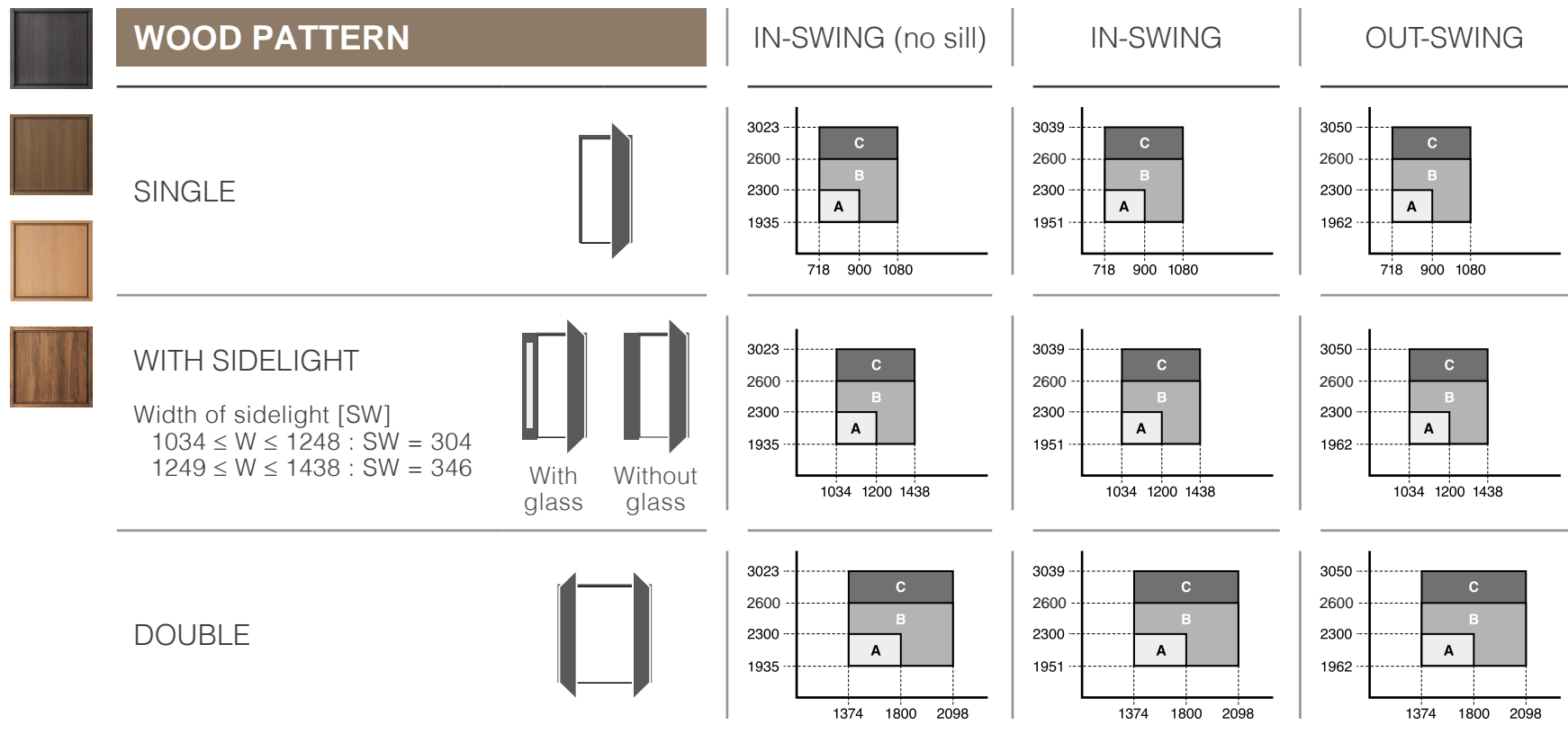
## SPECIFICATIONS

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: <ul style="list-style-type: none"> <li>- Wood pattern type: wood pattern resin sheet, wrapping on aluminum profile with synthetic rubber</li> <li>- Painted type: anodized aluminum profile</li> </ul>
	Sill: Anodized aluminum profile
DOOR PANEL	External sheet: <ul style="list-style-type: none"> <li>- Wood pattern type: (External) resin laminated sheet / (Internal) anti-rust epoxy coating</li> <li>- Polystyrene (EPS foam)</li> </ul>
	Insulating glass thickness 23 mm (cleared 3 + air gap 16 + patterned glass 4)

## PERFORMANCES

			
WIND PRESSURE	WATER TIGHTNESS	AIR TIGHTNESS	NOISE INSULATION
S-2 (1200PA) (JIS A 1515)	W-2 (150PA) (JIS A 1517)	A-4 (2) (JIS A 1516)	N/A (JIS A 1416)



SIMPLE AND  
MINIMALISTIC

\* A, B, C indicates price changing points. (A<B<C)

## DESIGNS



P01

P02

P03

## COLORS



TURIN  
PINE

CREA  
MOCHA

CREA  
RUSK

TEAK



POLISH  
SILVER



SILKY  
WHITE



AUTUMN  
BROWN



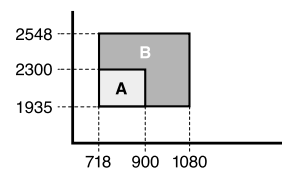
### ALUMINUM PATTERN



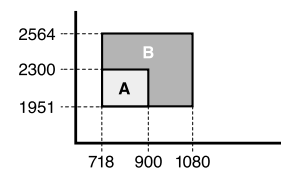
### SINGLE



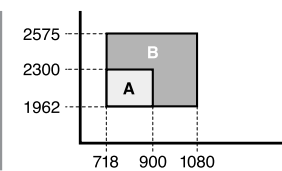
### IN-SWING (no sill)



### IN-SWING

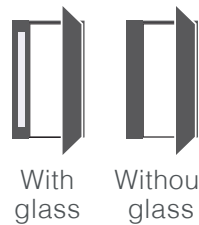


### OUT-SWING

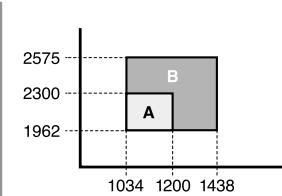
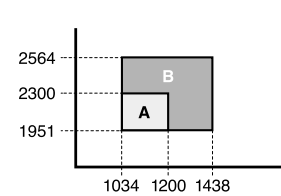
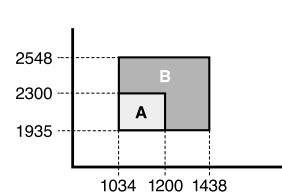


### WITH SIDELIGHT

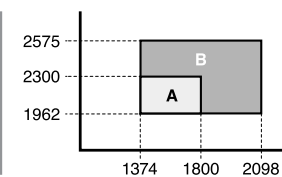
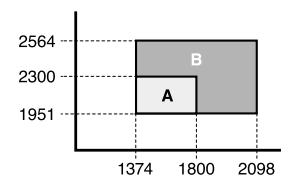
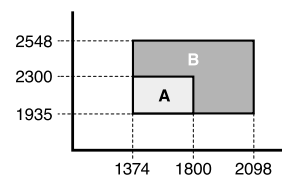
Width of sidelight [SW]  
 $1034 \leq W \leq 1248 : SW = 304$   
 $1249 \leq W \leq 1438 : SW = 346$



With glass Without glass



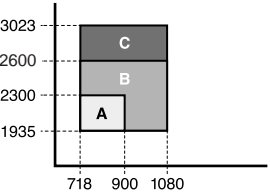
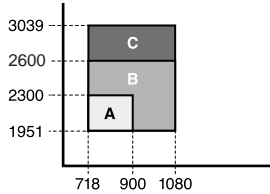
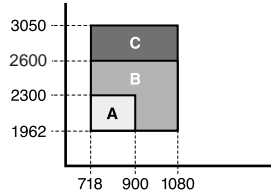



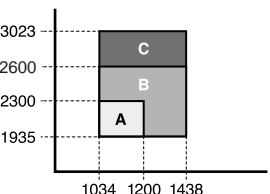
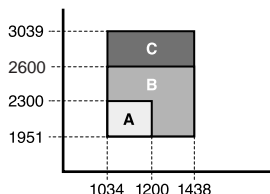
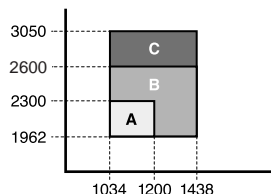


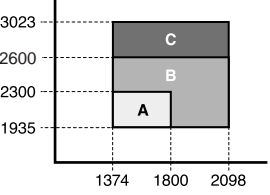
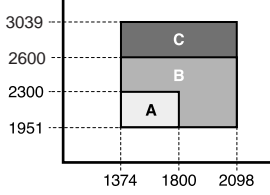
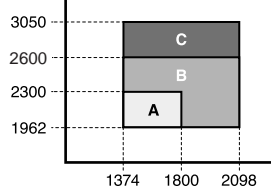


### DOUBLE



\* A, B, C indicates price changing points. (A<B<C)

# MODERN BUT TRADITIONAL

WOOD PATTERN	WOOD PATTERN	IN-SWING (no sill)	IN-SWING	OUT-SWING	
	SINGLE				
	WITH SIDELIGHT	  With glass    Without glass			
	DOUBLE				

\* A, B, C indicates price changing points. (A<B<C)

## DESIGNS



D01

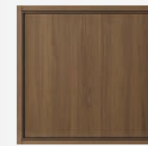
D02

D03

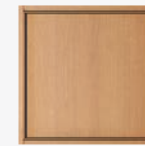
## COLORS



TURIN  
PINE










CREA  
MOCHA




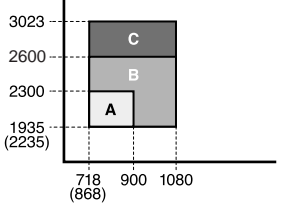
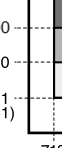
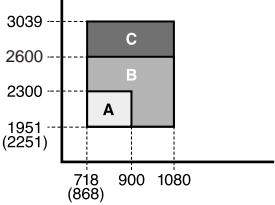
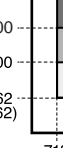
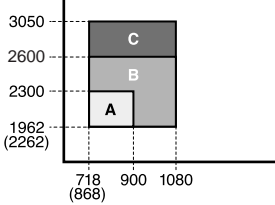

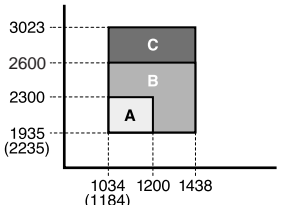
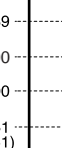
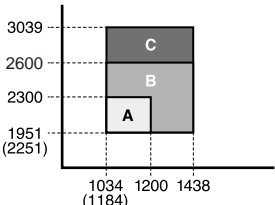
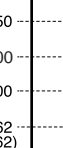
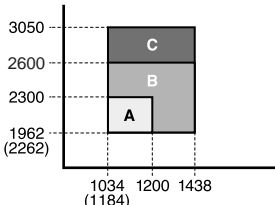

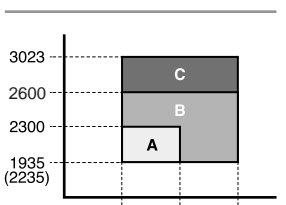
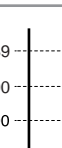
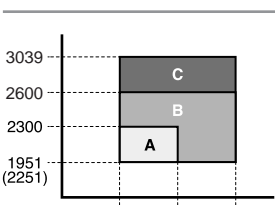
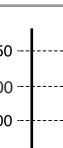
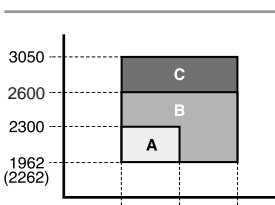

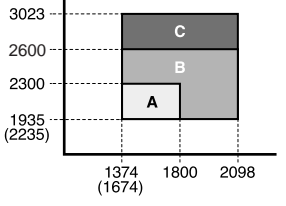
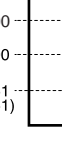
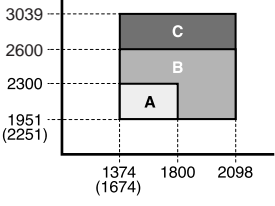
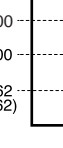
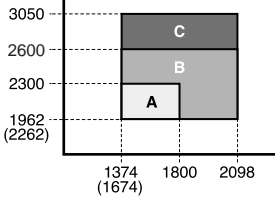
CREA  
RUSK



TEAK

	ALUMINUM PATTERN	IN-SWING (no sill)	IN-SWING	OUT-SWING
				
	SINGLE 	N/A	N/A	N/A
	WITH SIDELIGHT Width of sidelight [SW] 1034 ≤ W ≤ 1248 : SW = 304 1249 ≤ W ≤ 1438 : SW = 346   With glass Without glass	N/A	N/A	N/A
	DOUBLE 	N/A	N/A	N/A

# GLASS WITH STYLE

WOOD PATTERN	WOOD PATTERN	IN-SWING (no sill)	IN-SWING	OUT-SWING
	SINGLE	 	 	 
	WITH SIDELIGHT	 	 	 
	Width of sidelight [SW] $1034 (1184) \leq W \leq 1248 : SW = 304$ $1249 \leq W \leq 1438 : SW = 346$	 	 	 
	DOUBLE	 	 	 

\* A, B, C indicates price changing points. (A<B<C)

\*\* Dimension indicated in ( ) are the minimum dimension for G01 design

## DESIGNS



G01

G02

G03

G04

## COLORS



TURIN  
PINE

CREA  
MOCHA

CREA  
RUSK

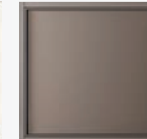
TEAK



POLISH  
SILVER



SILKY  
WHITE



AUTUMN  
BROWN



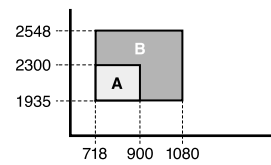
### ALUMINUM PATTERN



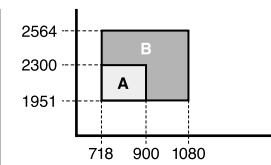
### SINGLE



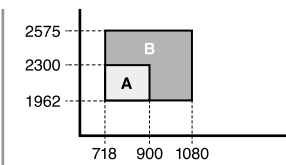
### IN-SWING (no sill)



### IN-SWING

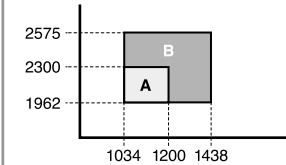
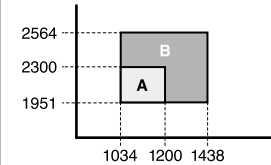
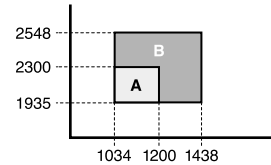
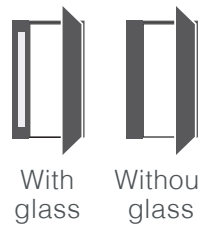


### OUT-SWING

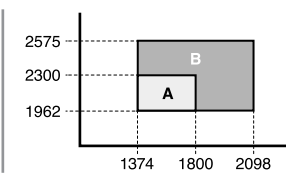
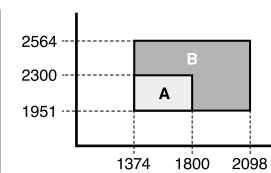
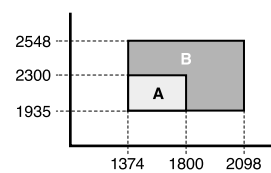


### WITH SIDELIGHT

Width of sidelight [SW]  
 $1034 \leq W \leq 1248 : SW = 304$   
 $1249 \leq W \leq 1438 : SW = 346$



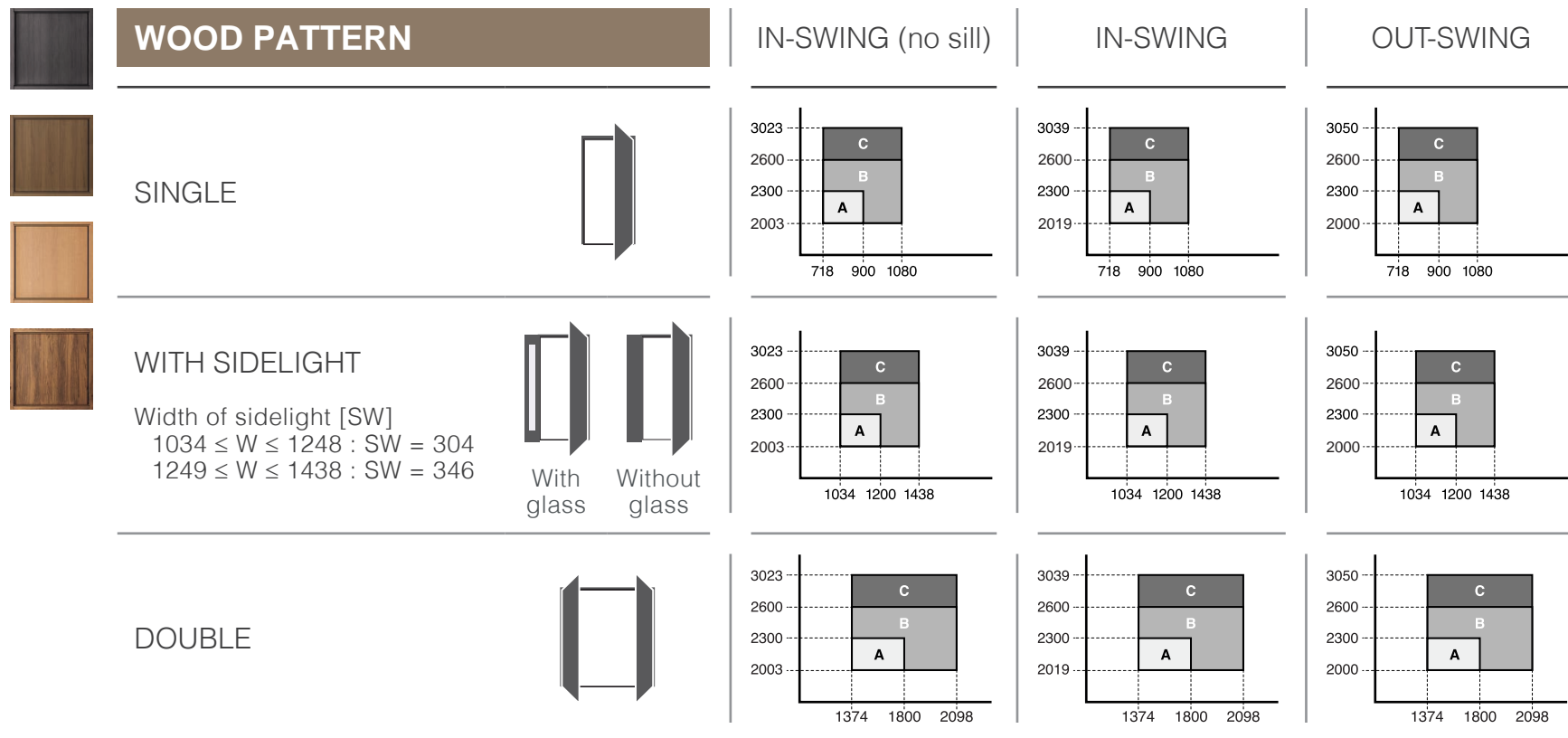
### DOUBLE



\* A, B, C indicates price changing points. (A<B<C)

\*\* Aluminum pattern not available for G01

# COMFORT WITH MINIMAL DESIGN



\* A, B, C indicates price changing points. (A<B<C)

## DESIGN



A01

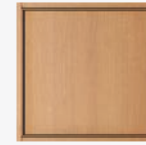
## COLORS



TURIN  
PINE










CREA  
MOCHA



CREA  
RUSK



TEAK

	ALUMINUM PATTERN	IN-SWING (no sill)	IN-SWING	OUT-SWING
				
	SINGLE		N/A	N/A
	WITH SIDELIGHT Width of sidelight [SW] 1034 ≤ W ≤ 1248 : SW = 304 1249 ≤ W ≤ 1438 : SW = 346	  With glass    Without glass	N/A	N/A
	DOUBLE		N/A	N/A

# GIESTA AIRFLOW Series

## A PERFECT SOLUTION FOR YOUR OWN COMFORT WITH MINIMAL DESIGN

The GIESTA AIRFLOW series offers a high-performance wooden pattern steel door with an integrated AIRFLOW window and insect screen. It allows for air circulation to cool the living space, reduce humidity, and remove unpleasant odors. The ventilation panel is wide enough to let the air flow in easily but too small to be entered from, providing added security with a multi-lock function. GIESTA AIRFLOW is Japanese Industrial Standards (JIS) certified and has won Japan's KIDS Design Award for its user-friendly and child safety design.



COMPLETE AIR FLOW WITH  
SECURITY



KEEP MOSQUITO AND PEST  
AWAY FROM YOUR HOME



PROVIDE PASSIVE VENTILATION  
ENVIRONMENT



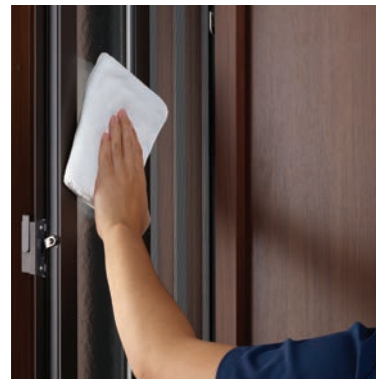
LIFT LOCK HANDLE TO UNLOCK



PULL DOWN LOCK HANDLE FOR VENTILATION

### **SIMPLE OPEN / CLOSE OPERATION**

AIRFLOW window is swing-in and can lock and unlock easily by using single lock handle to control 2 locks (Multi-lock). Open-close smoothly with high performance hinge.

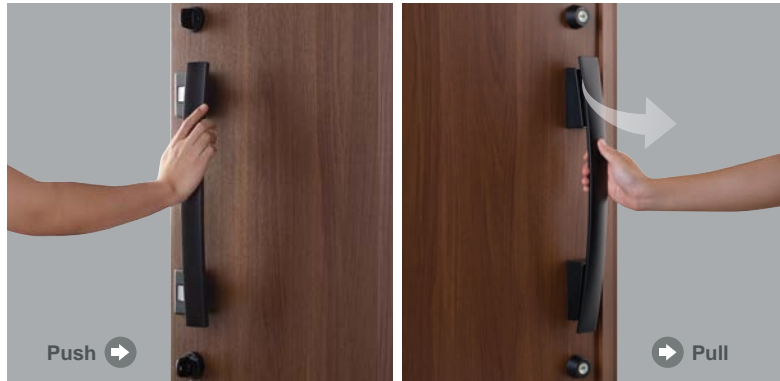


### **EASY TO CLEAN**

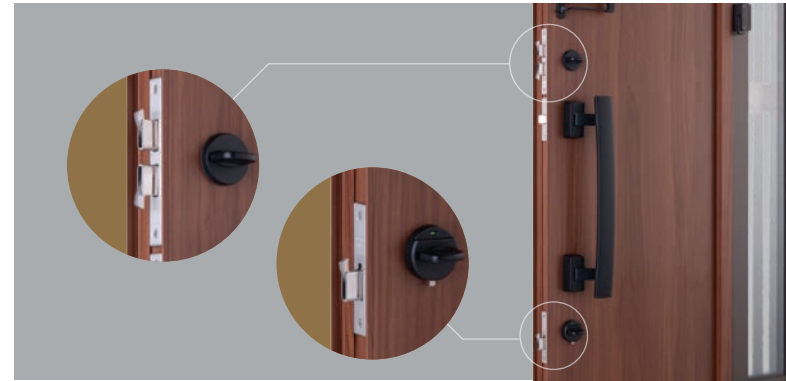
Deep clean every corner without removing any part by spraying water from garden hose to insect screen from outside the room (please make sure that the AIRFLOW window and the door is completely closed)



# UNIQUE FEATURES



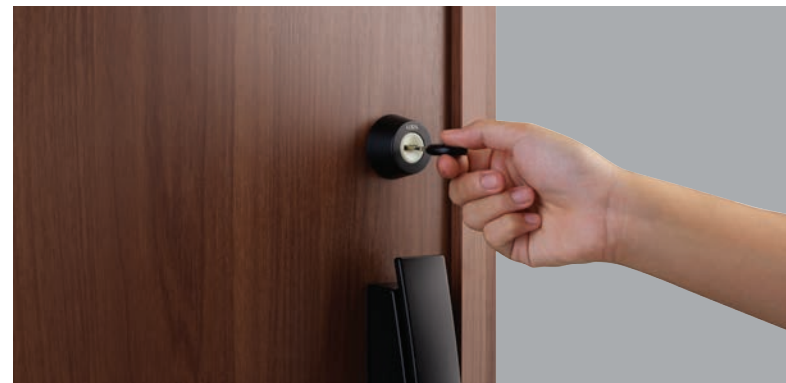
PUSH-PULL BAR HANDLE EASY TO OPERATE JUST PUSH OR PULL AFTER UNLOCK TO OPEN THE DOOR



2 LOCKS THAT CONTROL 3 LATCHES



REMOVE INSIDE KEY HEAD TO PREVENT FROM UNLOCK IN CASE OF BURGLARY



LOCK-UNLOCK WITH EASE WITH REVERSIBLE KEY



FRAME SEALED WITH RUBBER FOR WATERTIGHT AND ANTI-PINCH
















DOOR FILLED WITH INSULATION MATERIAL FOR HEAT PREVENTION AND NOISE INSULATION

# 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	
							
BLAST SILVER	SILKY MATTE BLACK	BLAST SILVER	SILKY MATTE BLACK	BLAST SILVER	SATIN GOLD	BLAST SILVER	SILKY MATTE BLACK
Apply for Out-Swing door only		Apply for Out-Swing door only		Apply for both Out-Swing and In-Swing door		Apply for both Out-Swing and In-Swing door	

DIGITAL HANDLE		DIGITAL HANDLE		BAR HANDLE TYPE V	
					
OUTSIDE	INSIDE	OUTSIDE	INSIDE	OUTSIDE	INSIDE
					
SILVER	BLACK	SILVER	BLACK	SILVER	BLACK
Apply for both Out-Swing and In-Swing door		Apply for Out-Swing door only		Apply for In-Swing door only	

# ACCESSORIES

OUT-SWING DOOR		IN-SWING DOOR	
DOOR CLOSER	DOOR GUARD	DOOR CLOSER	DOOR GUARD
			
 AUTUMN BROWN  SHINE GRAY  NATRAL WHITE	 BLAST SILVER  SILKY MATTE BLACK  SATIN GOLD	 AUTUMN BROWN  SHINE GRAY	 SILVER
ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM

## CYLINDER LOCK & KEY

### CYLINDER LOCK



OUTSIDE



INSIDE

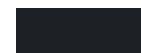
THUMB TURN IS IN HANDLE BOX CYLINDER  
 CONSTRUCTION KEYS: 3  
 OWNER KEYS: 5



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



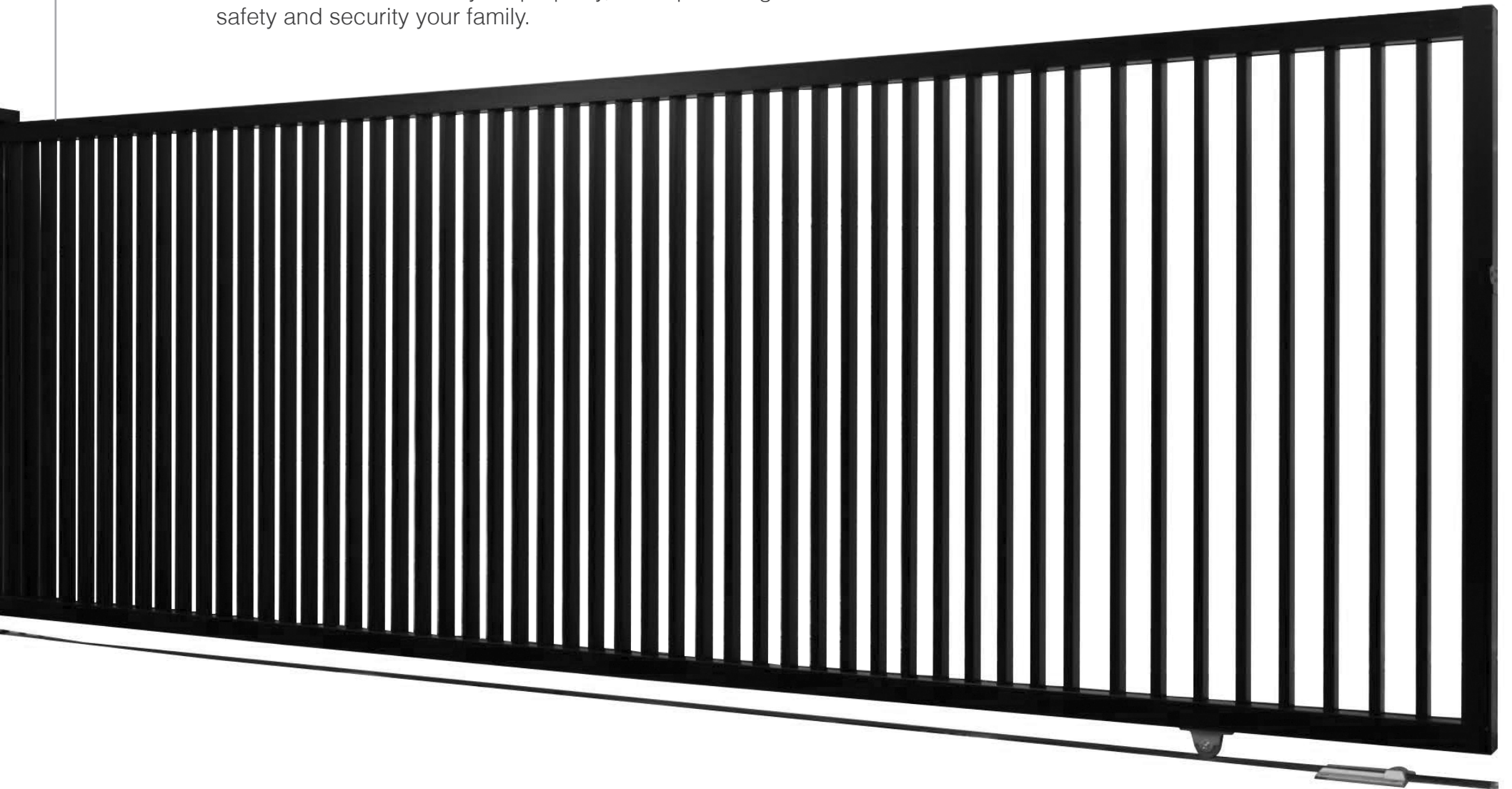
EFFORTLESS  
MOVEMENT



LOW  
MAINTENANCE



ANTI-RUST  
DURABILITY



## COLORS




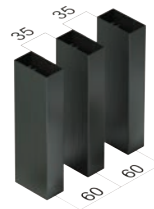
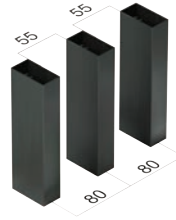
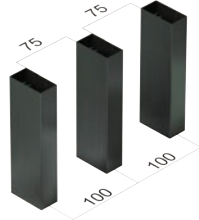
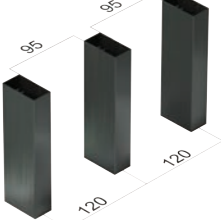
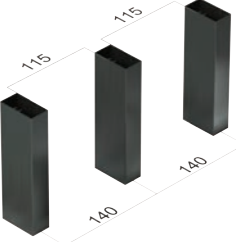

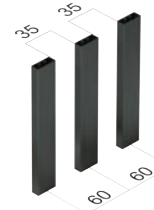
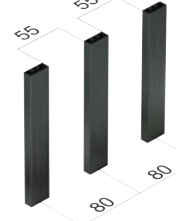
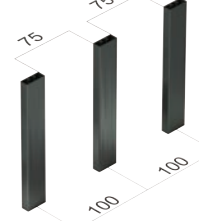
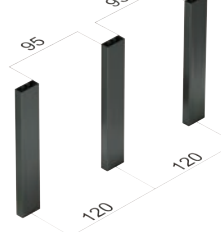
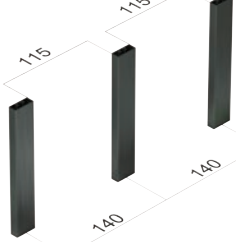
 NATURAL SILVER

 SHINE GRAY

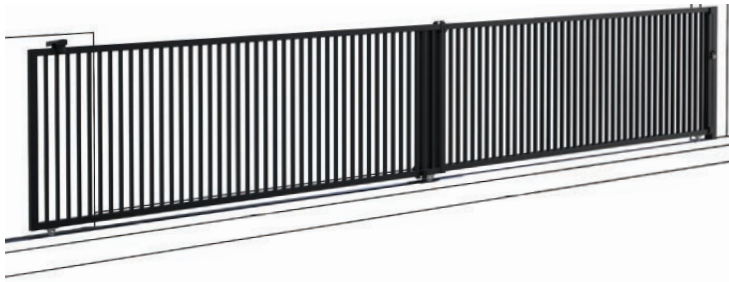
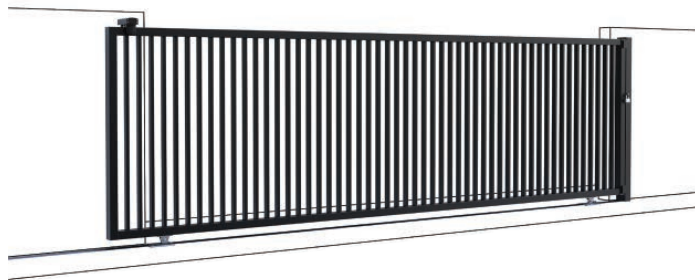
 AUTUMN BROWN

 NATURAL BLACK

## LATTICE PATTERN

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

## SLIDING GATE



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



<b>4 PANELS FOLDING GATE</b>	MINIMUM	MAXIMUM
WIDTH (Opening width)	3,000 mm	4,900 mm
HEIGHT (Product height)	1,200 mm	1,600 mm
<b>6 PANELS FOLDING GATE</b>	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



<b>SINGLE SWING GATE</b>	MINIMUM	MAXIMUM
WIDTH (Opening width)	600 mm	1,100 mm
HEIGHT (Product height)	1,200 mm	1,600 mm
<b>DOUBLE SWING GATE</b>	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

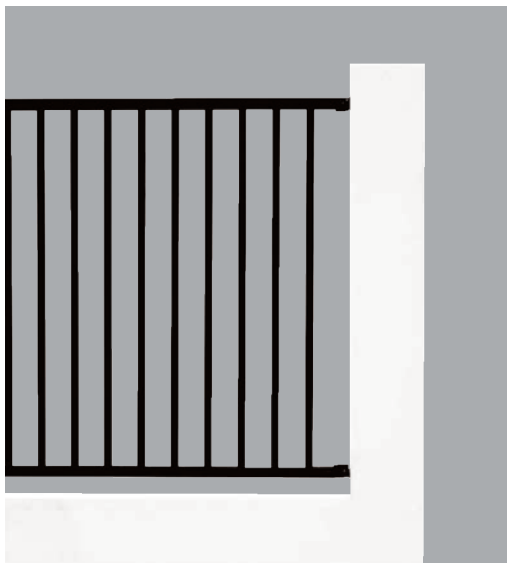
# FENCE



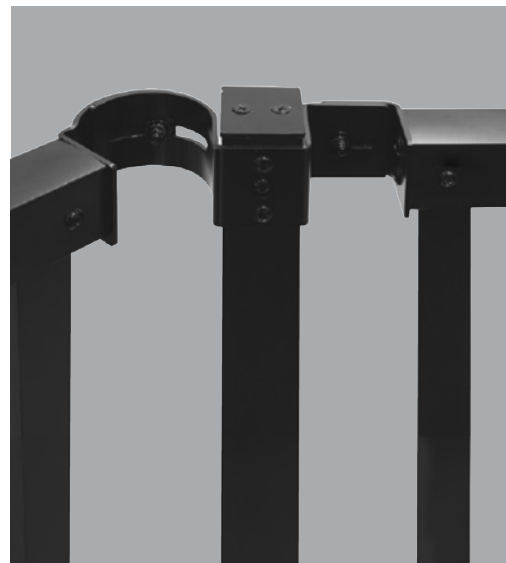
	MINIMUM	MAXIMUM
WIDTH (Opening width)	500 mm	2,000 mm
HEIGHT (Product height)	600 mm	1,200 mm

\* Please see reference drawing for detail

## UNIQUE FEATURES



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



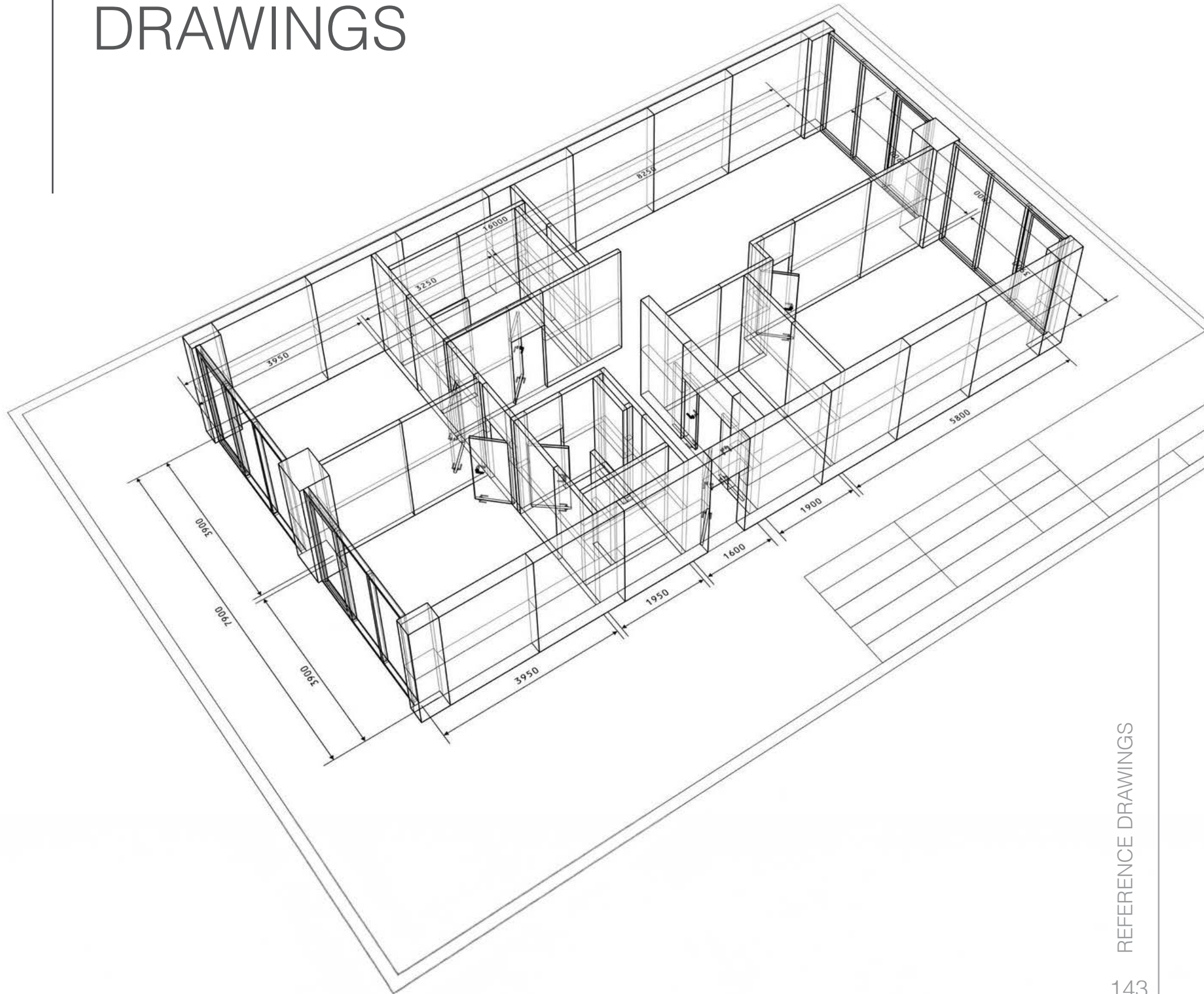
Straight and corner type fence jointer available. Adjustable from 90-180 degrees



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

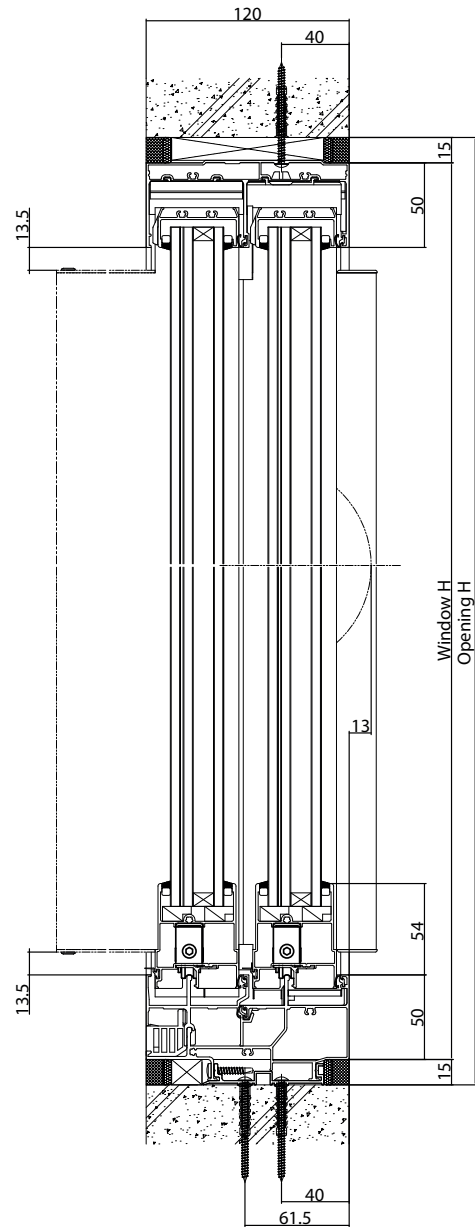


# REFERENCE DRAWINGS

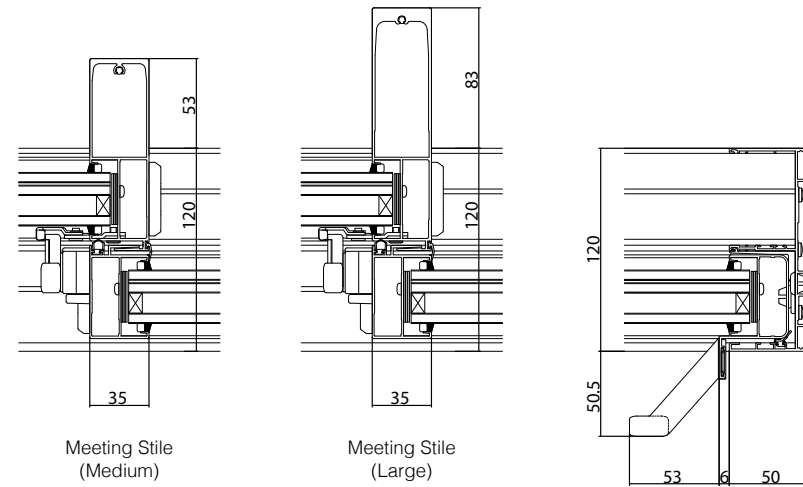


## GRANTS PLUS

## SLIDING (2P2T)



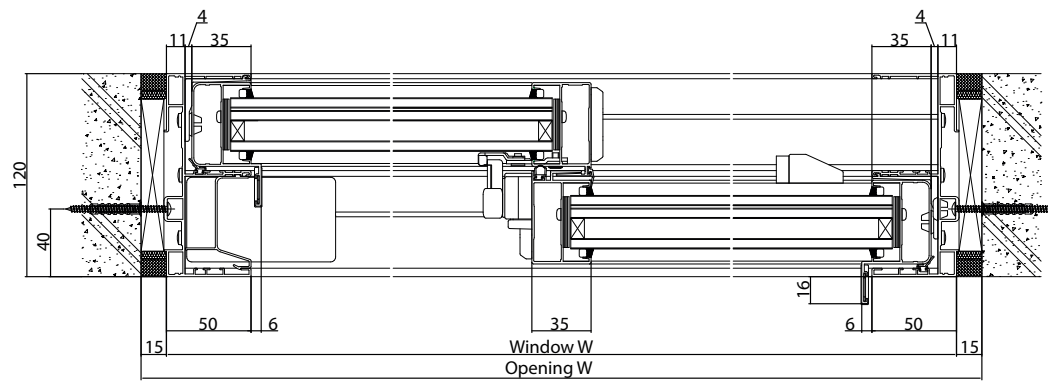
Vertical section: Sliding window  
(2 panels on 2 tracks)



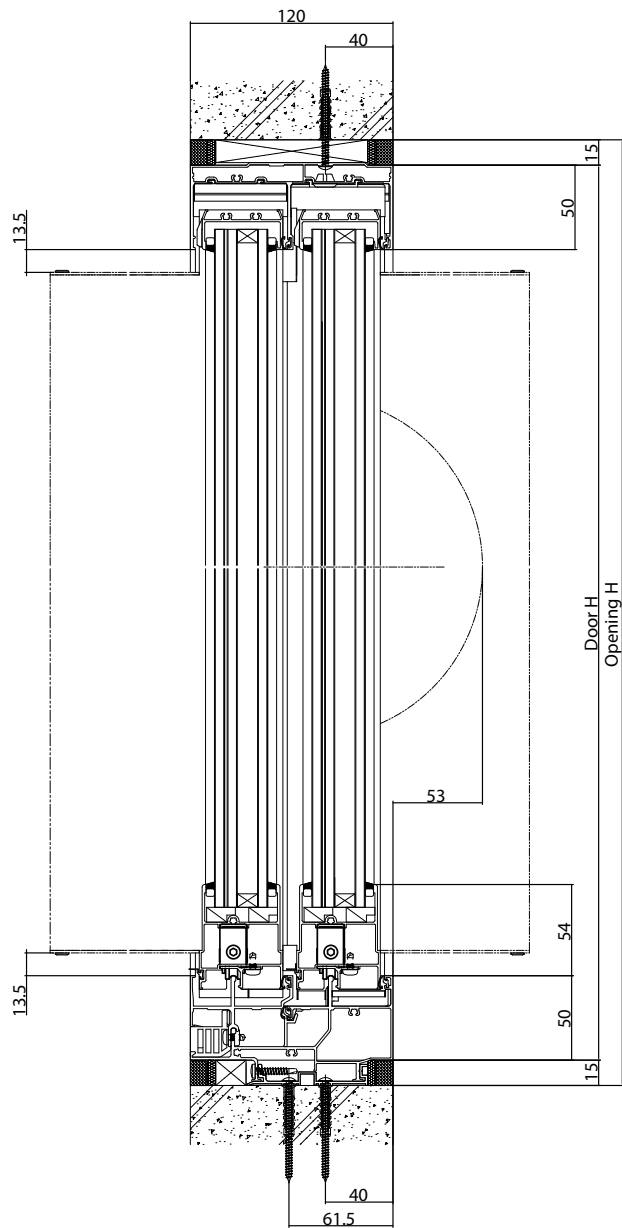
Meeting Stile  
(Medium)

Meeting Stile  
(Large)

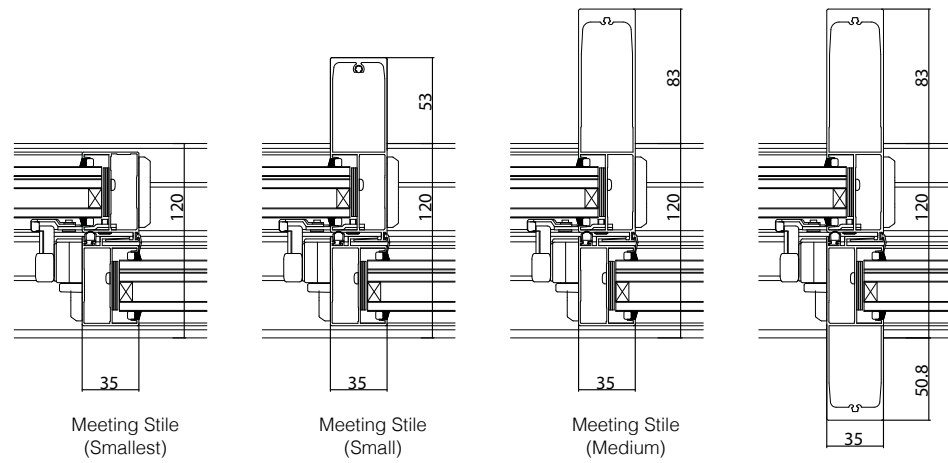
Stile with Handle  
(Optional)



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



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

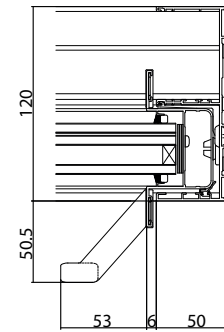


Meeting Stile  
(Smallest)

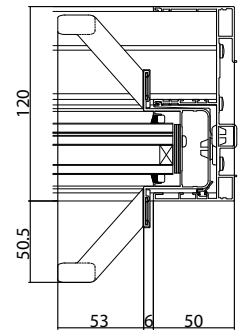
Meeting Stile  
(Small)

Meeting Stile  
(Medium)

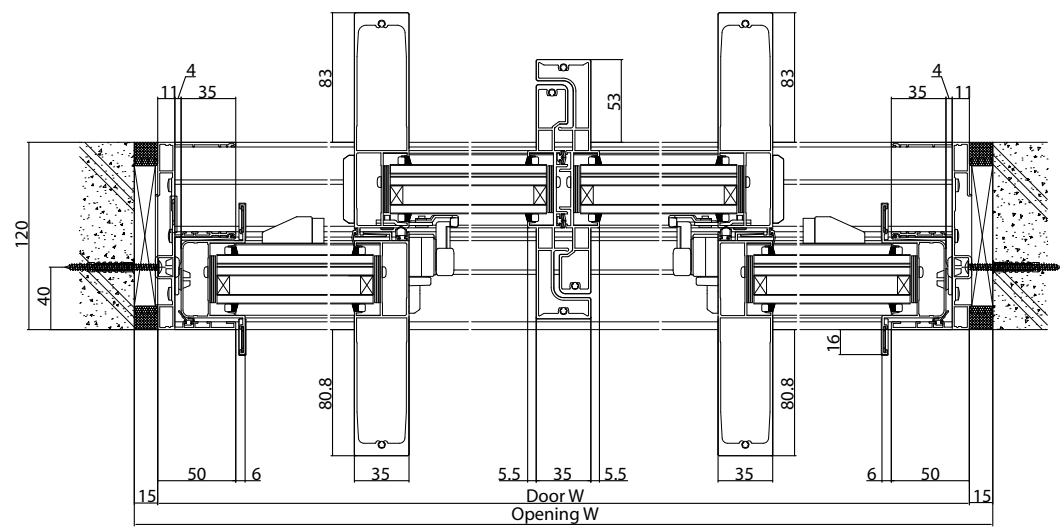
Meeting Stile  
(Large)



Stile with Inside Handle  
(Optional)



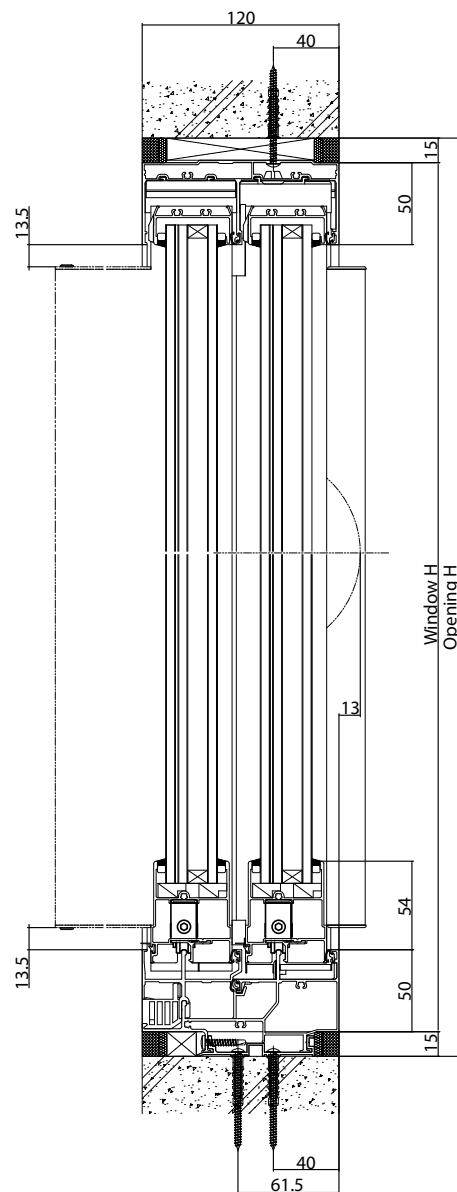
Stile with Handles on  
Both Sides (Optional)



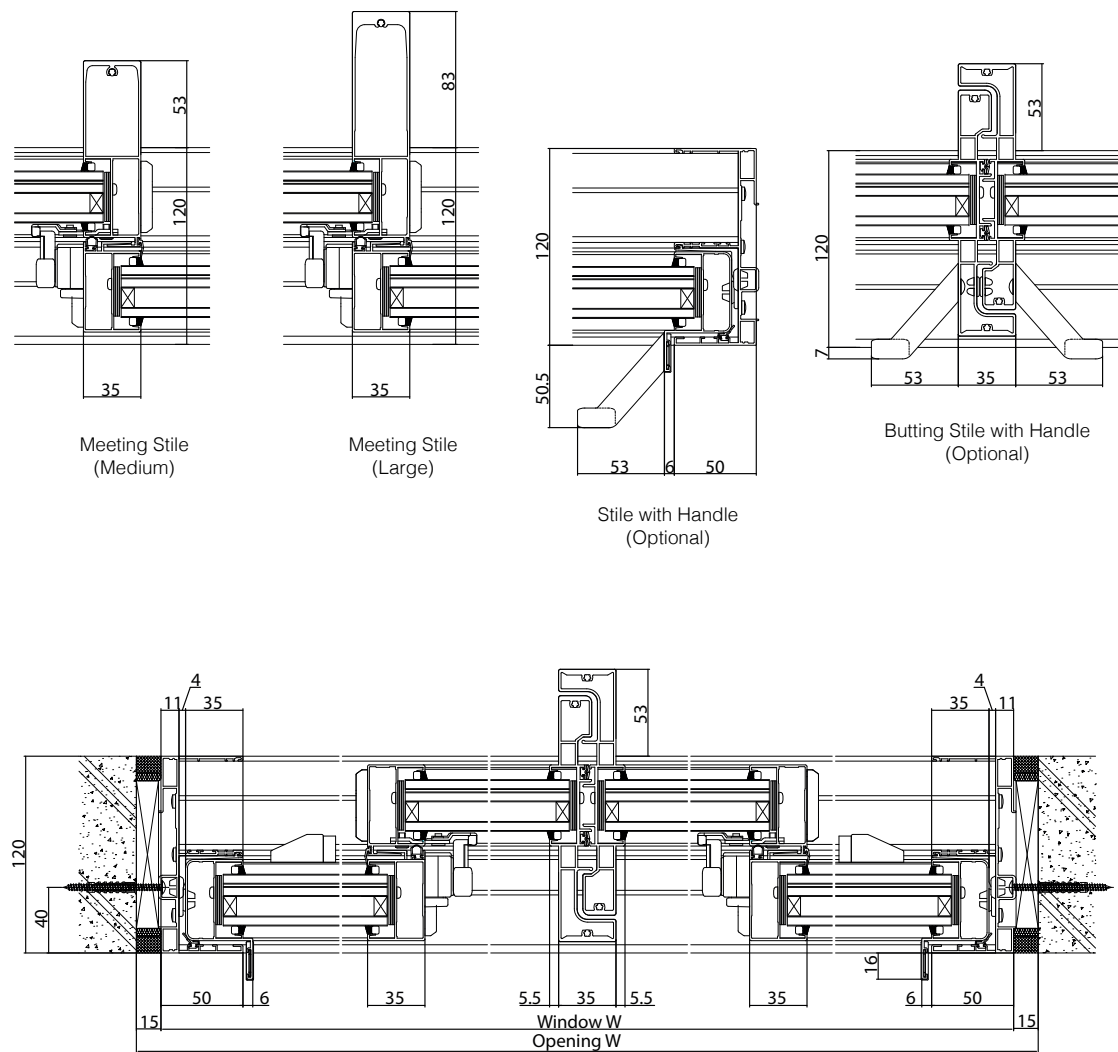
Horizontal section: Sliding door (4 panels on 2 tracks)

## GRANTS PLUS

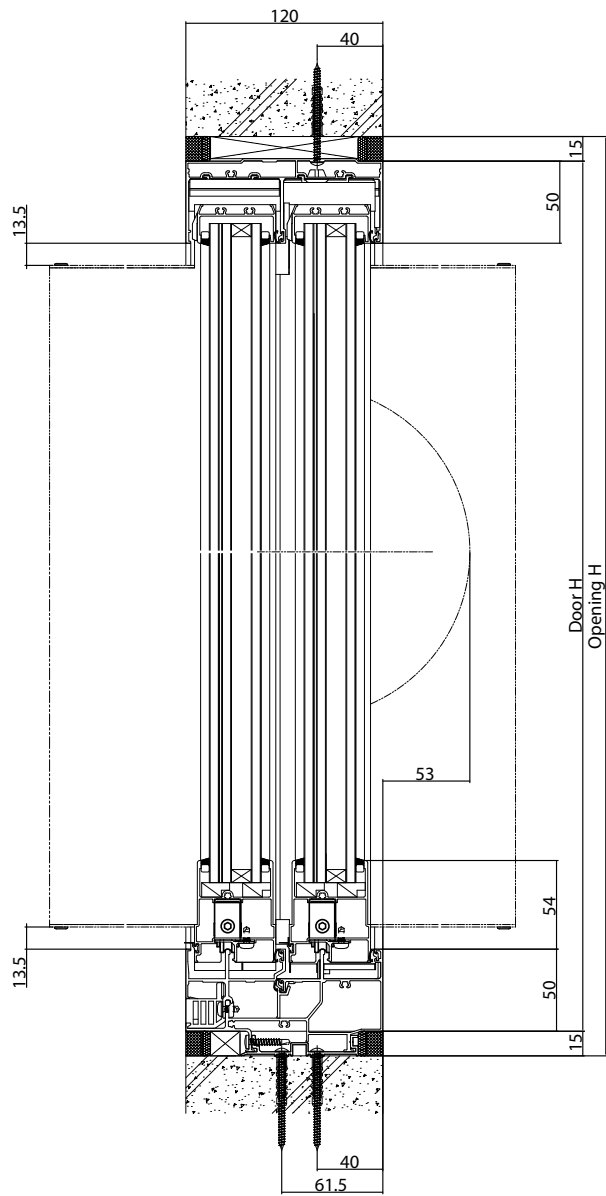
## SLIDING (4P2T)



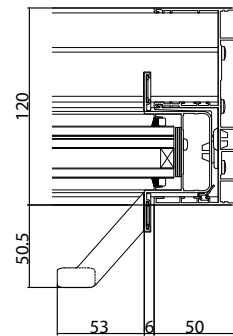
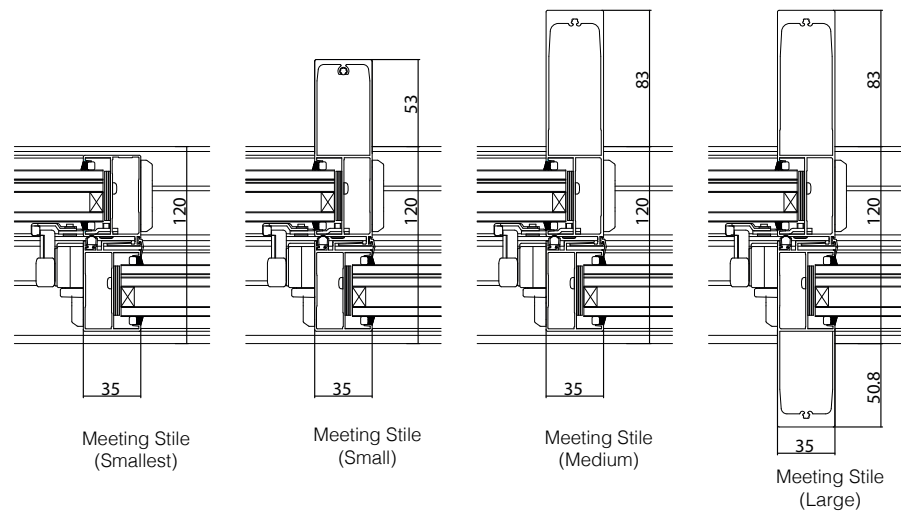
Vertical section: Sliding window  
(4 panels on 2 tracks)



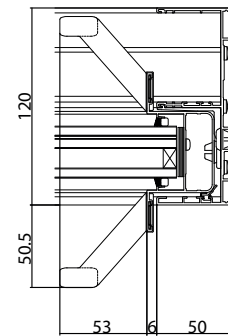
Horizontal section: Sliding window (4 panels on 2 tracks)



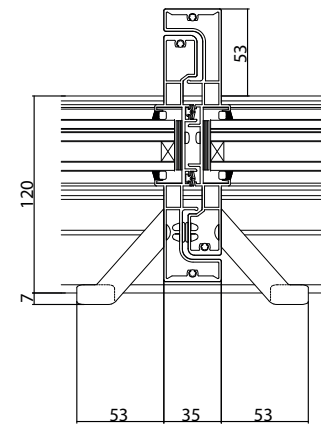
Vertical section: Sliding door  
(4 panels on 2 tracks)



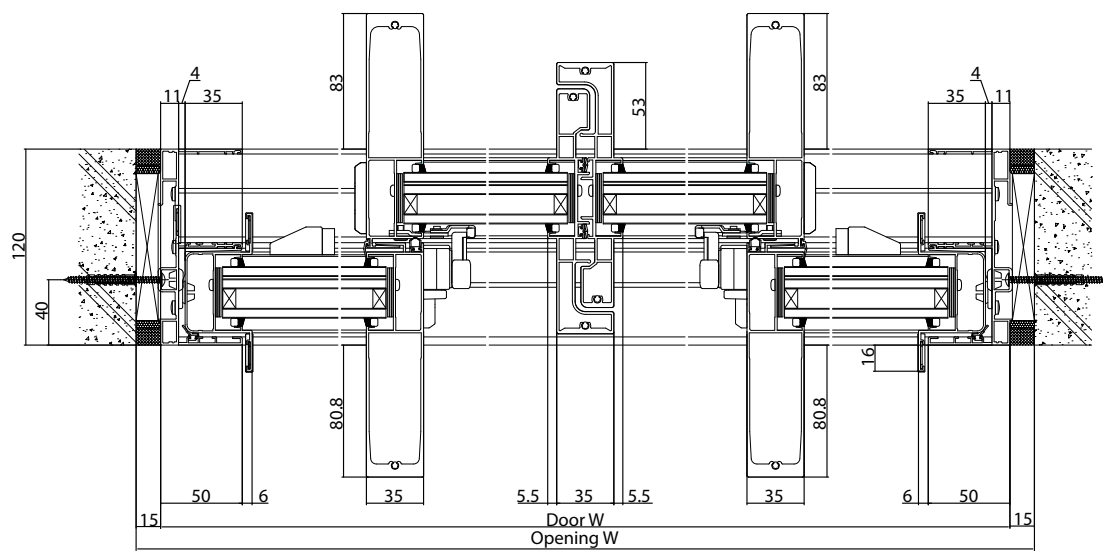
Stile with Inside Handle  
(Optional)



Stile with Handles on  
Both Sides (Optional)



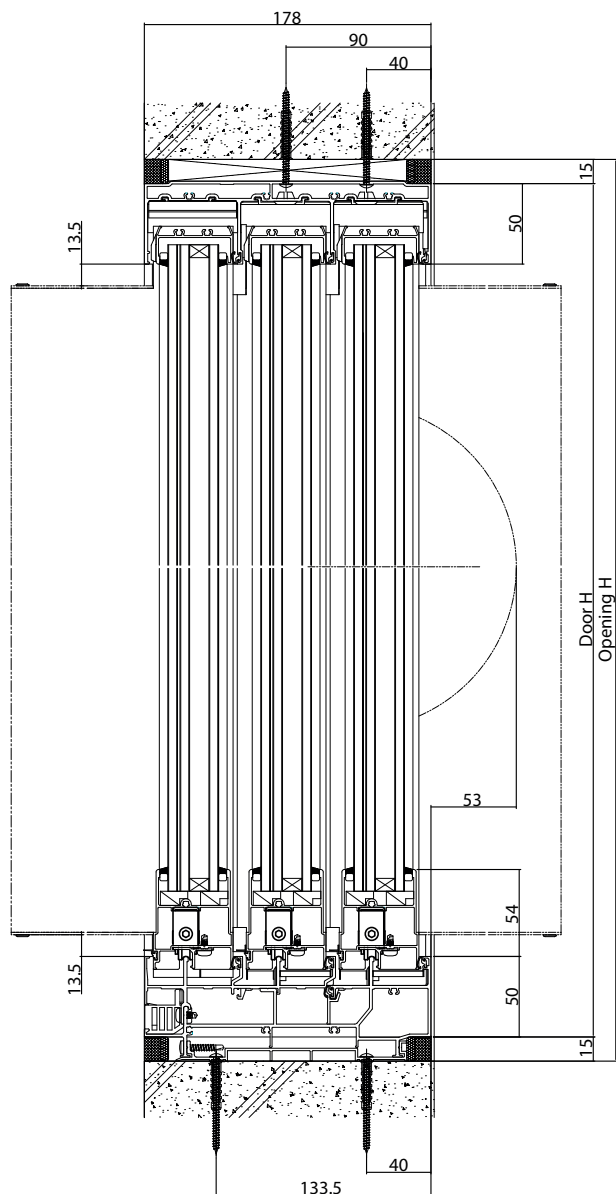
Butting Stile with Handle  
(Optional)



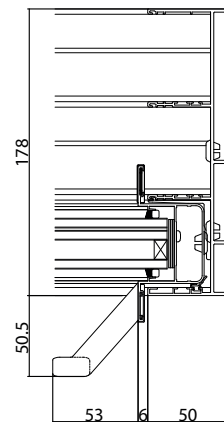
Horizontal section: Sliding door (4 panels on 2 tracks)

## GRANTS PLUS

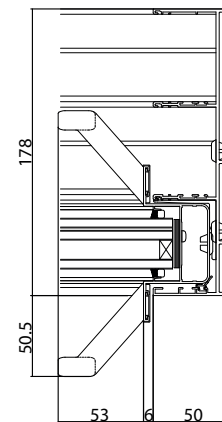
## SLIDING (3P3T, 6P3T)



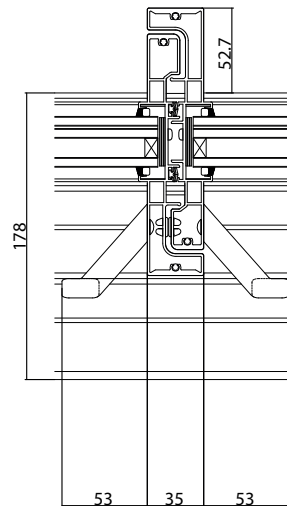
Vertical section: Sliding door  
(3 and 6 panels on 3 tracks)



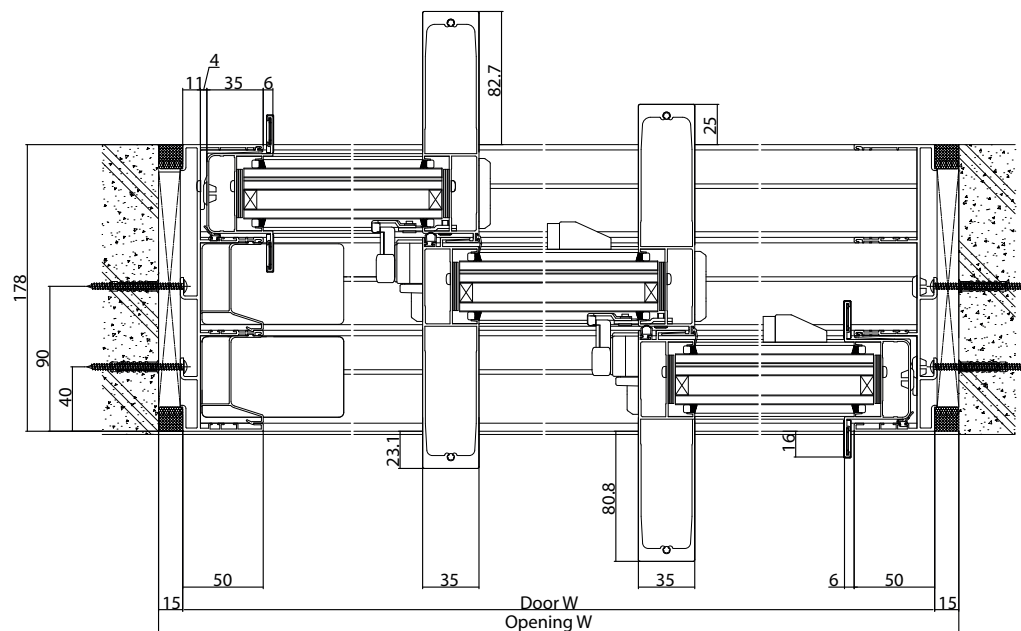
Stile with Inside Handle  
(Optional)



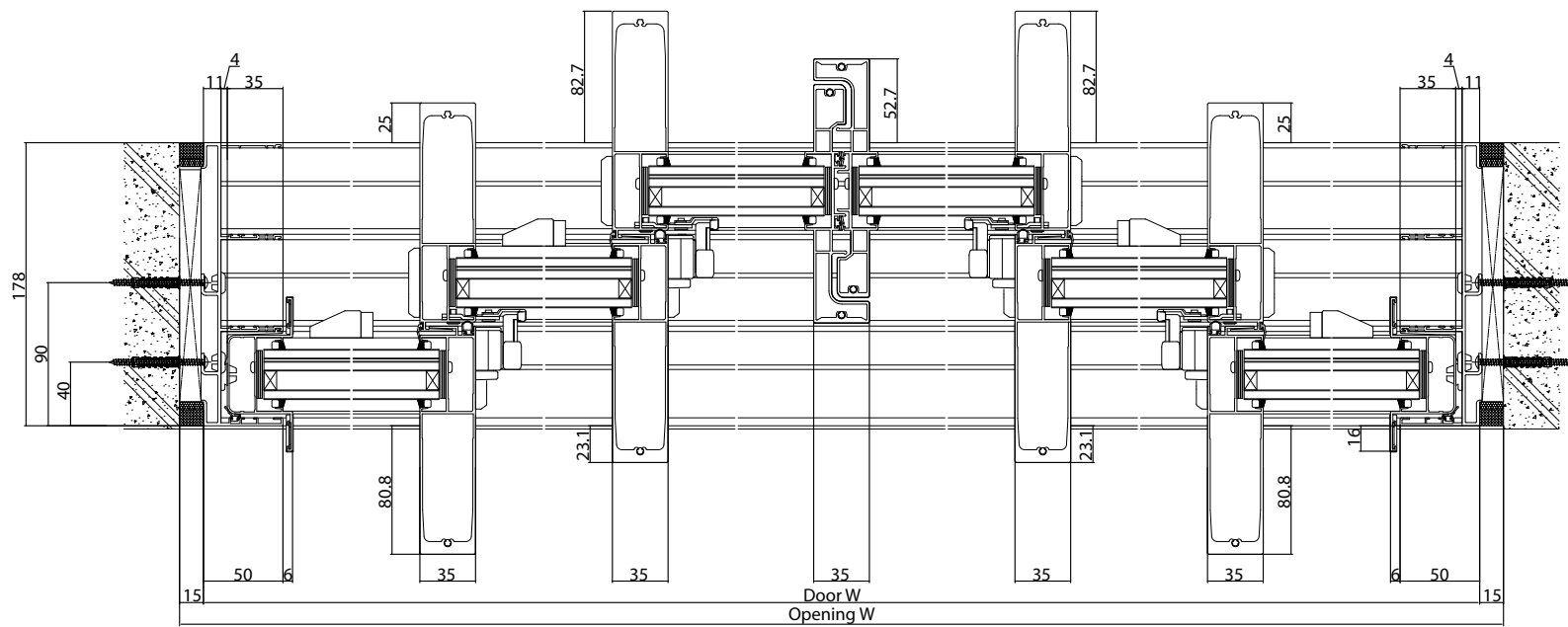
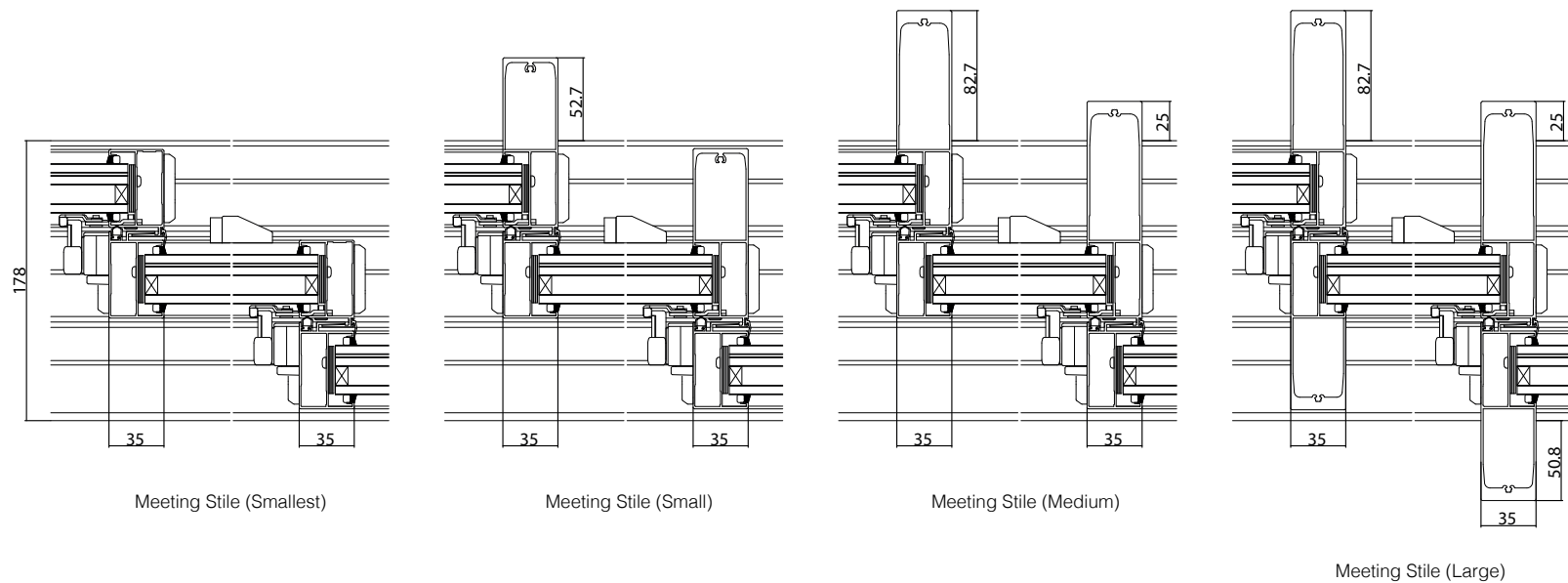
Stile with Handles on  
Both Sides (Optional)



Butting stile with Handles  
(Optional)



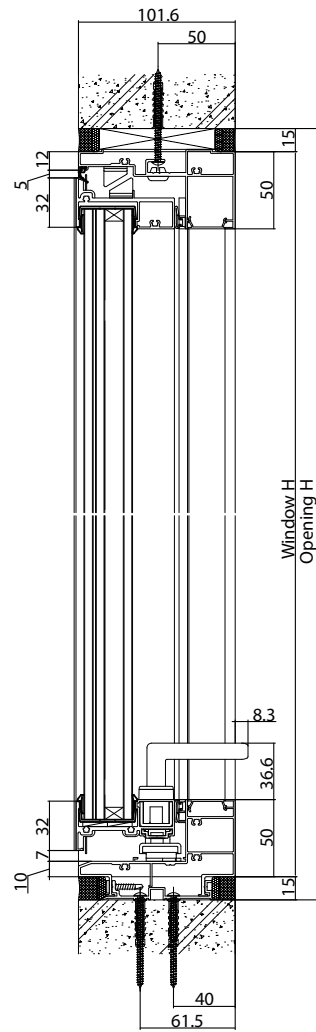
Horizontal section: Sliding door (3 panels on 3 tracks)



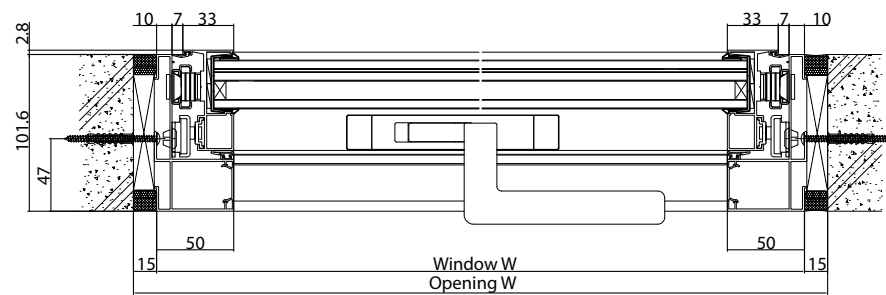
Horizontal section: Sliding door (6 panels on 3 tracks)

## GRANTS PLUS

## AWNING WINDOW



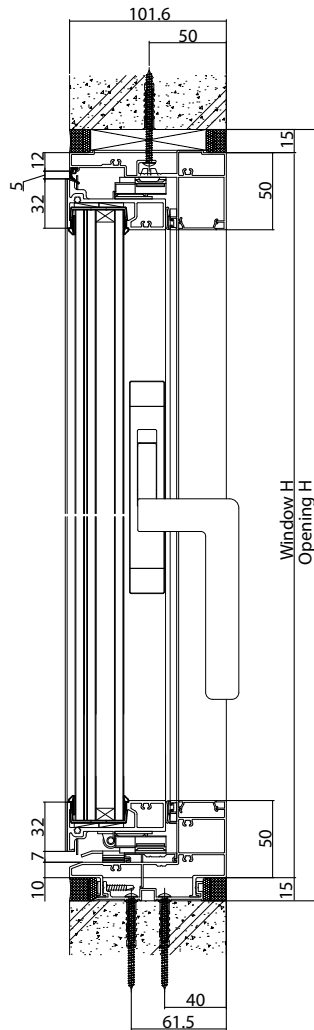
Vertical section: Awning window



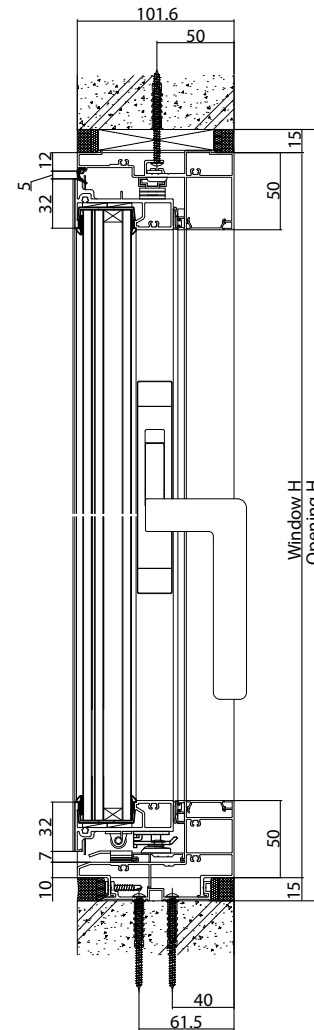
Horizontal section: Awning window

# GRANTS PLUS

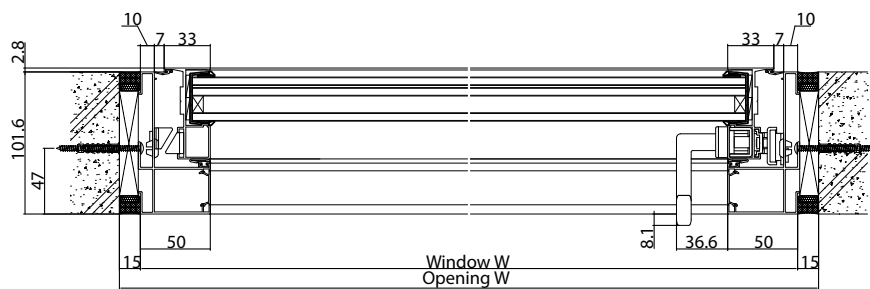
## CASEMENT WINDOW



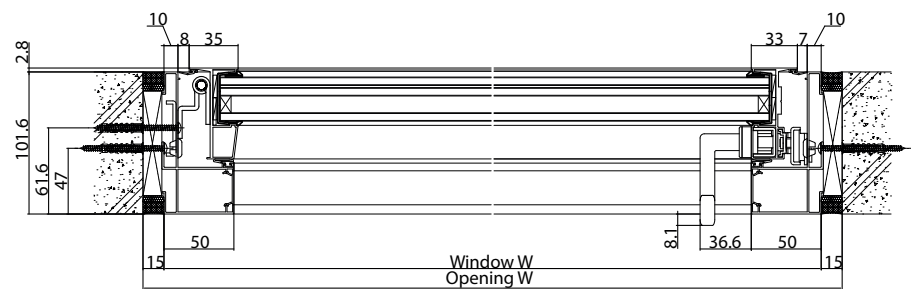
Vertical section: Casement window with friction stay



Vertical section: Casement window with hinge



Horizontal section: Casement window with friction stay



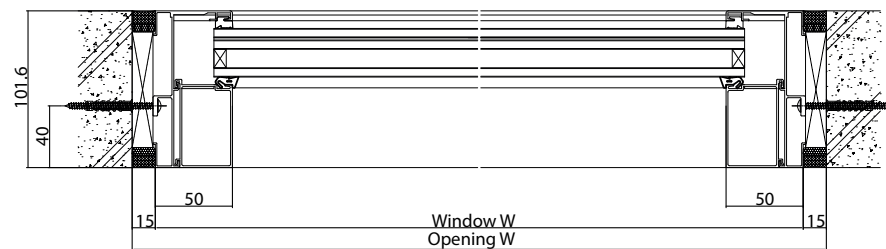
Horizontal section: Casement window with hinge

## GRANTS PLUS

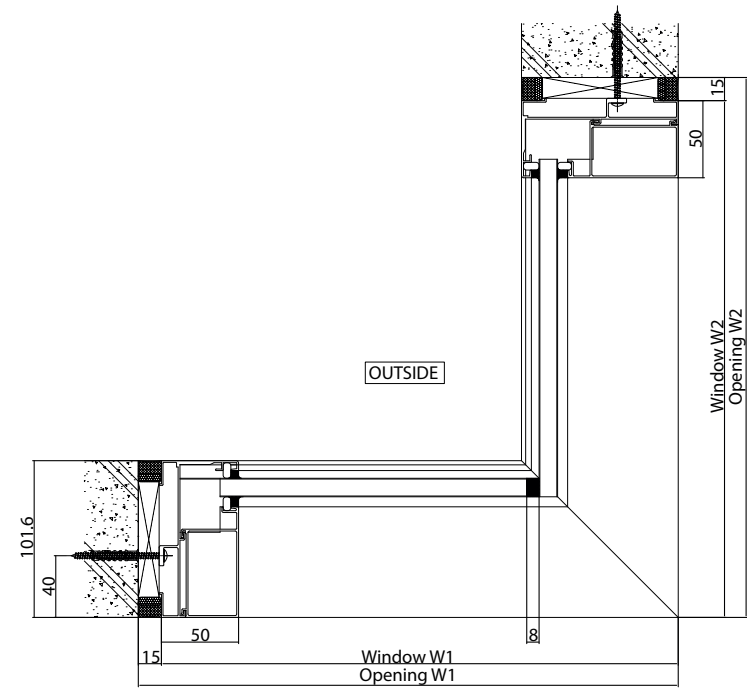
## FIXED WINDOW



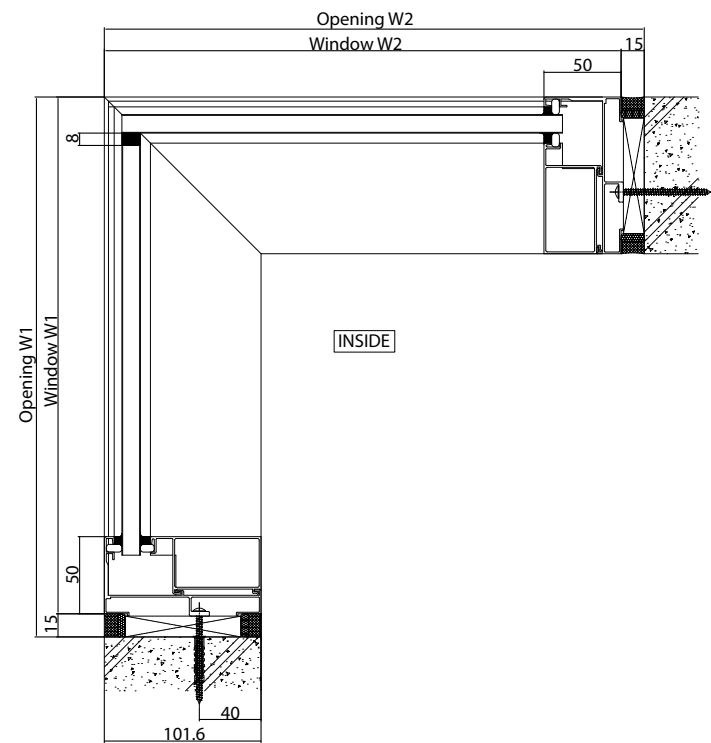
Vertical section: Fixed



Horizontal section: Fixed



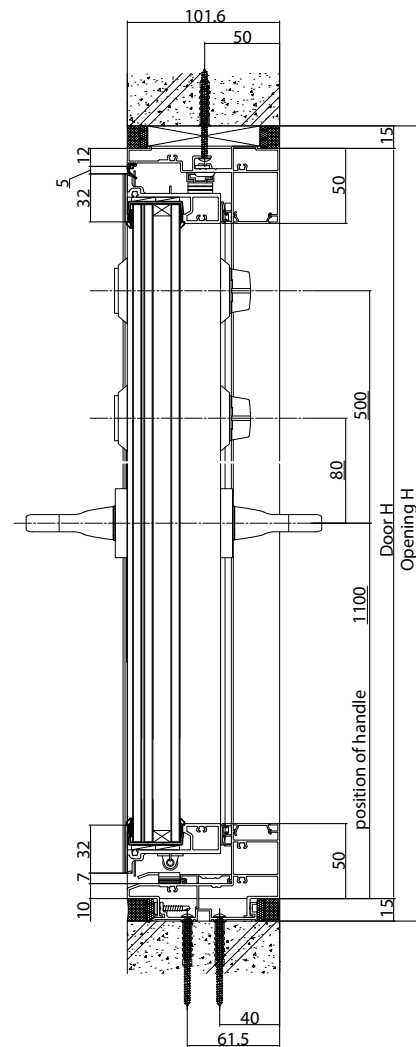
Horizontal section: Corner Fixed (inward)



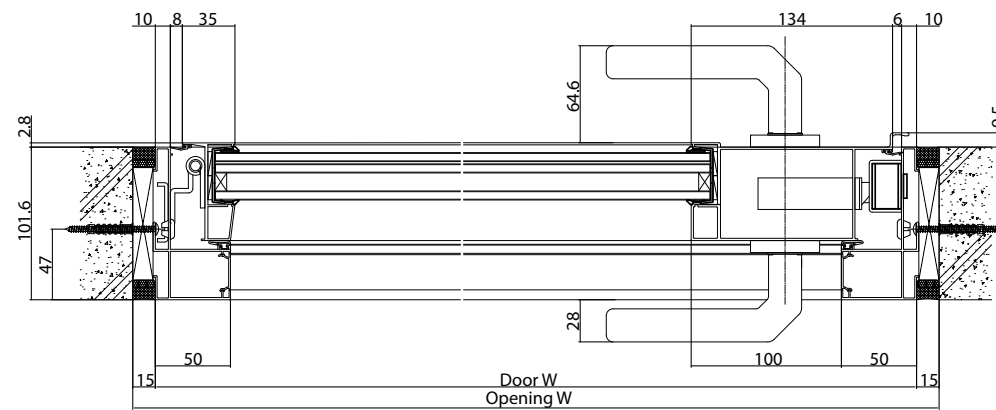
Horizontal section: Corner Fixed (outward)

# GRANTS PLUS

## SINGLE OUT-SWING DOOR



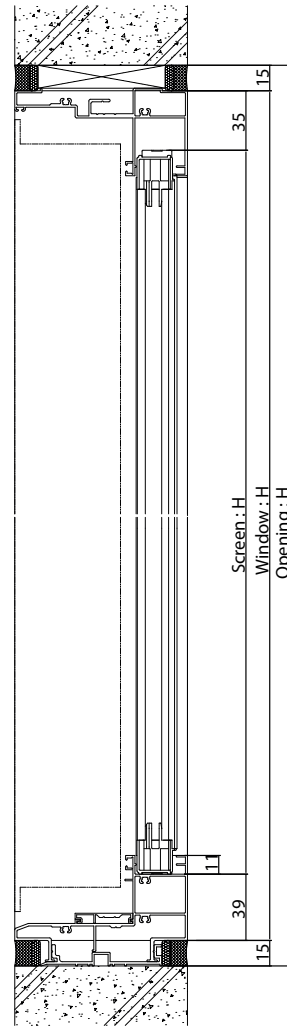
Vertical section: Single out-swing door



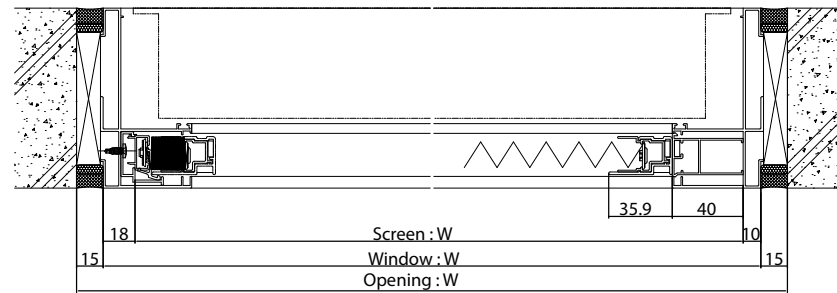
Horizontal section: Single out-swing door

## GRANTS PLUS

## INSECT SCREEN FOR SWING



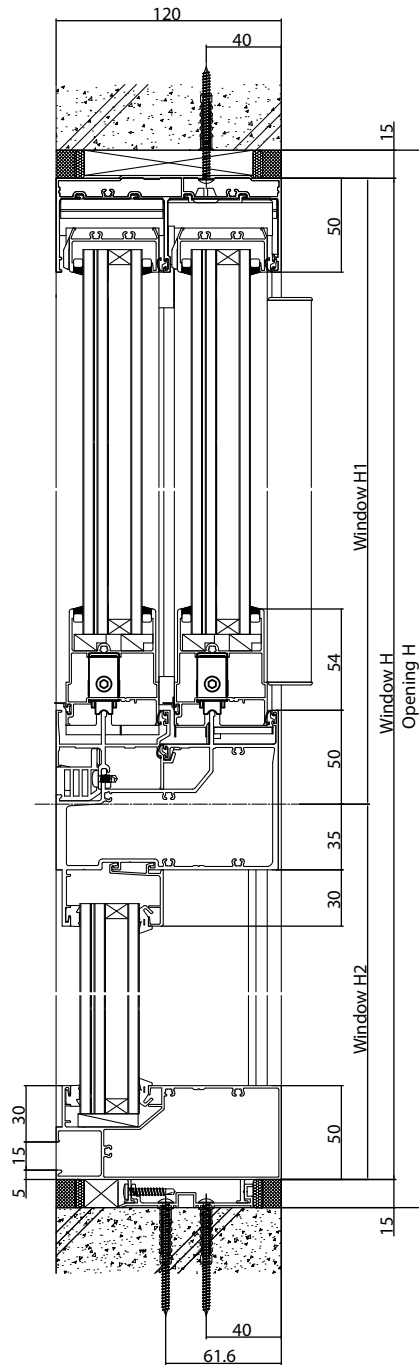
Vertical section: Insect screen for swing



Horizontal section: Insect screen for swing

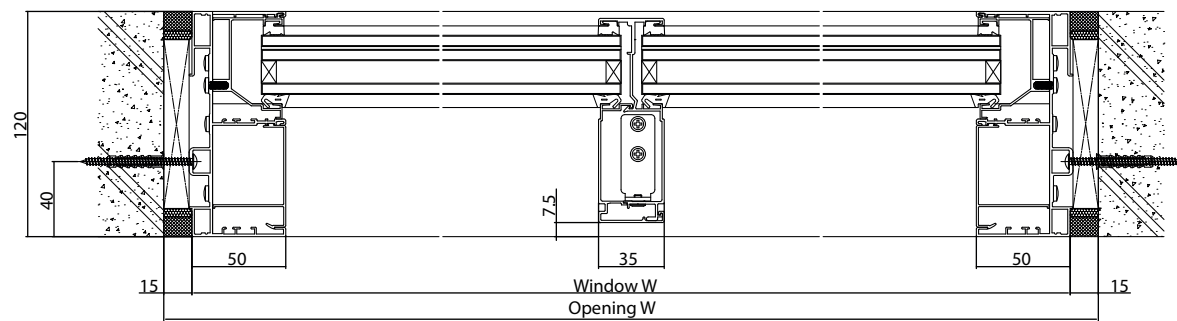
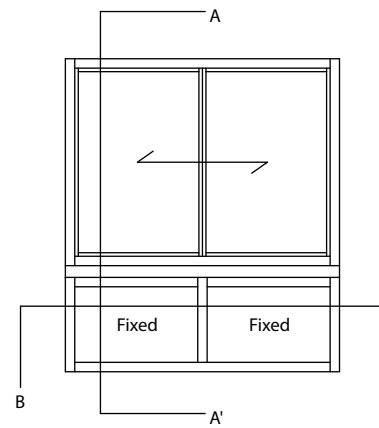
# GRANTS PLUS

## COMBINATION WINDOW



Vertical section: Sliding/Fixed A-A'

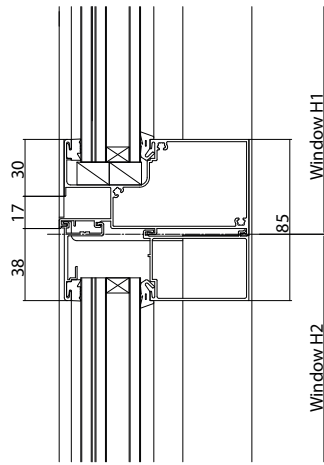
Front view: Sliding/Fixed with mullion



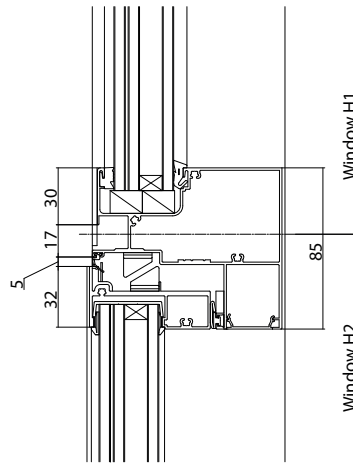
Horizontal section: Sliding/Fixed B-B'

## GRANTS PLUS

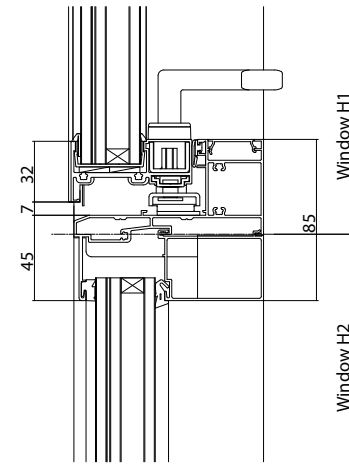
## TRANSOM &amp; MULLION



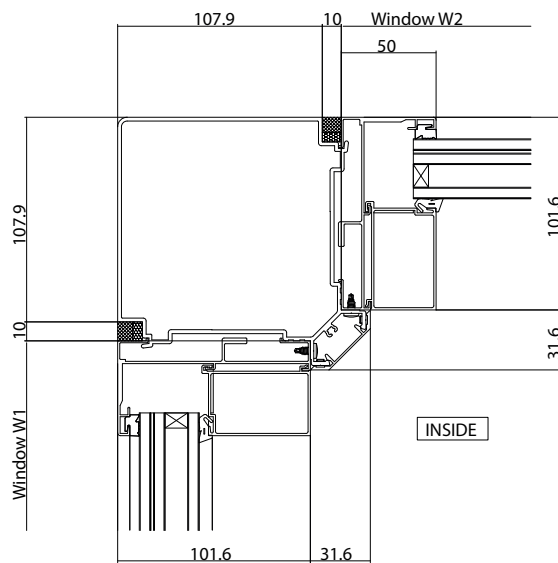
Vertical section:  
Fixed/Fixed transom



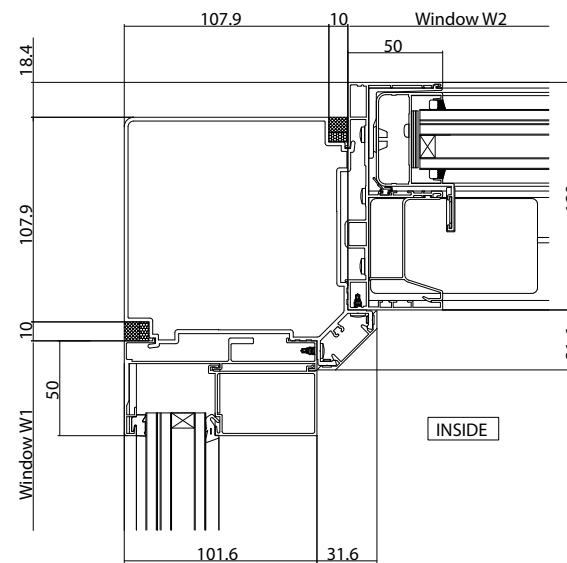
Vertical section:  
Fixed/Projection transom



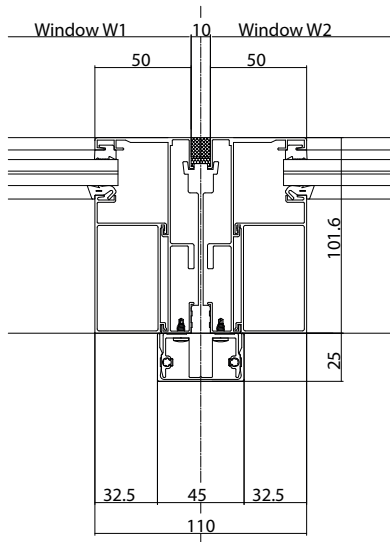
Vertical section:  
Projection/Fixed transom



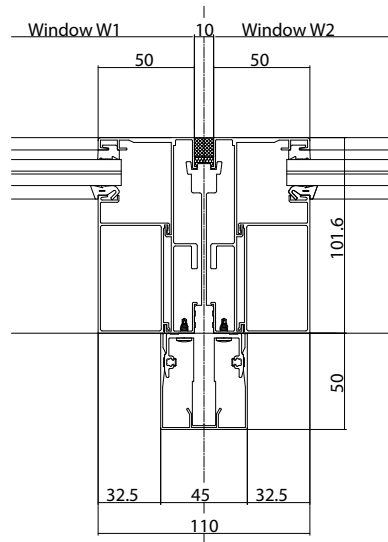
Corner mullion



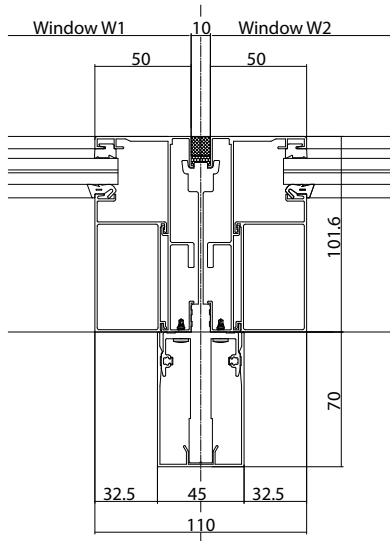
Corner mullion with sliding window



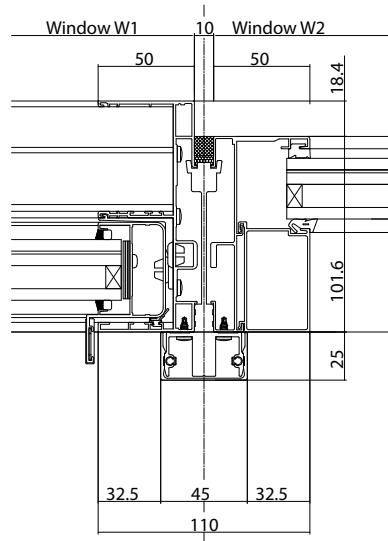
Mullion type A



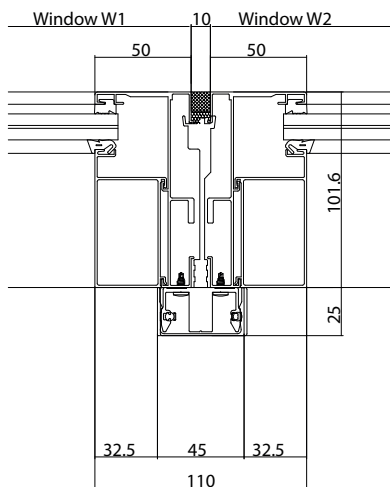
Mullion type B



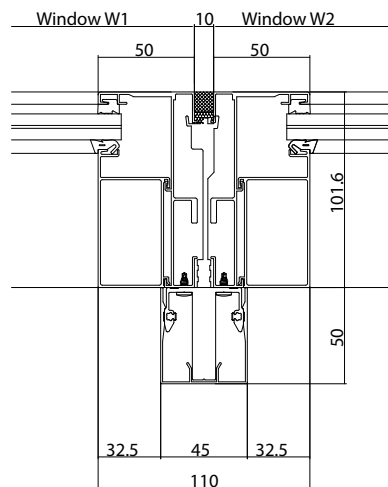
Mullion type C



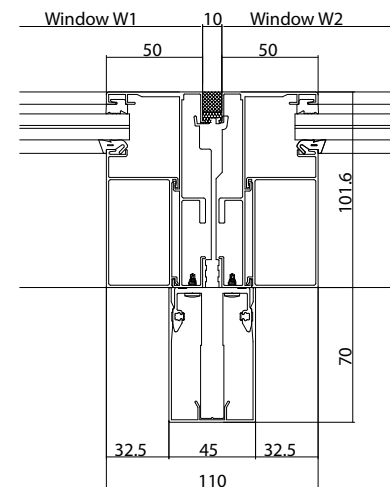
Mullion type A with sliding window



Mullion Adjust type A



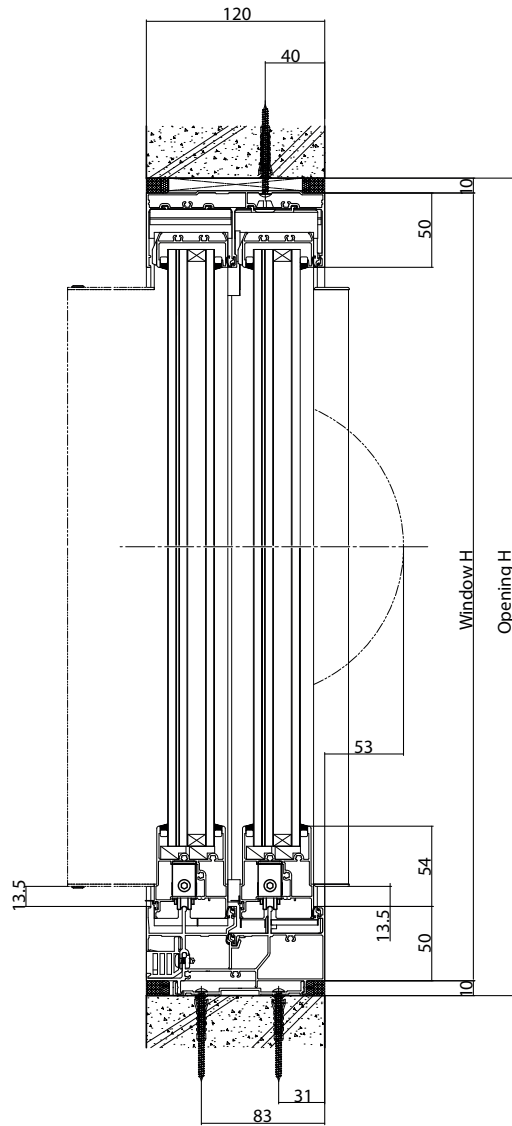
Mullion Adjust type B



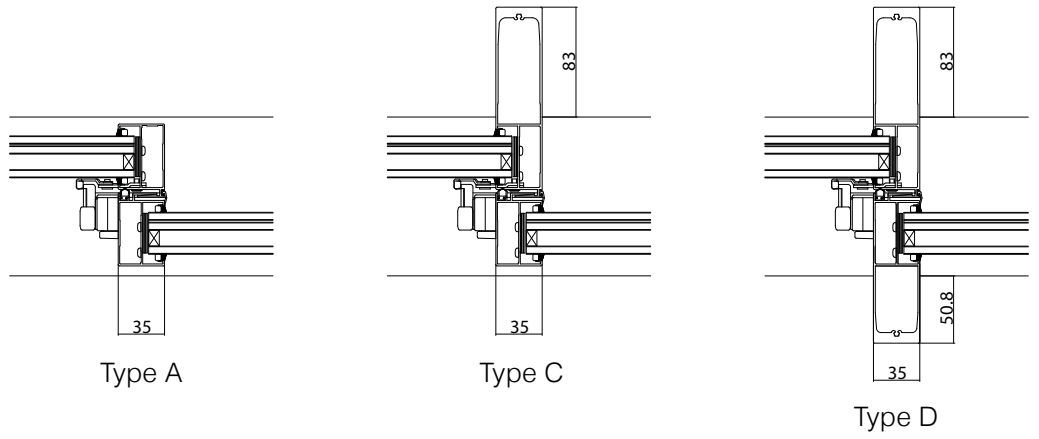
Mullion Adjust type C

# GRANTS

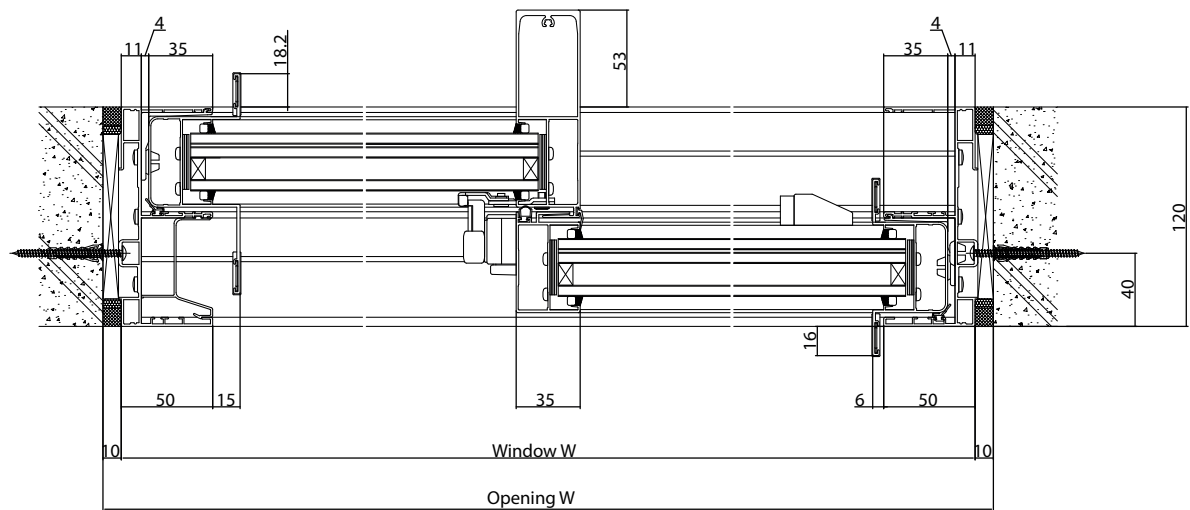
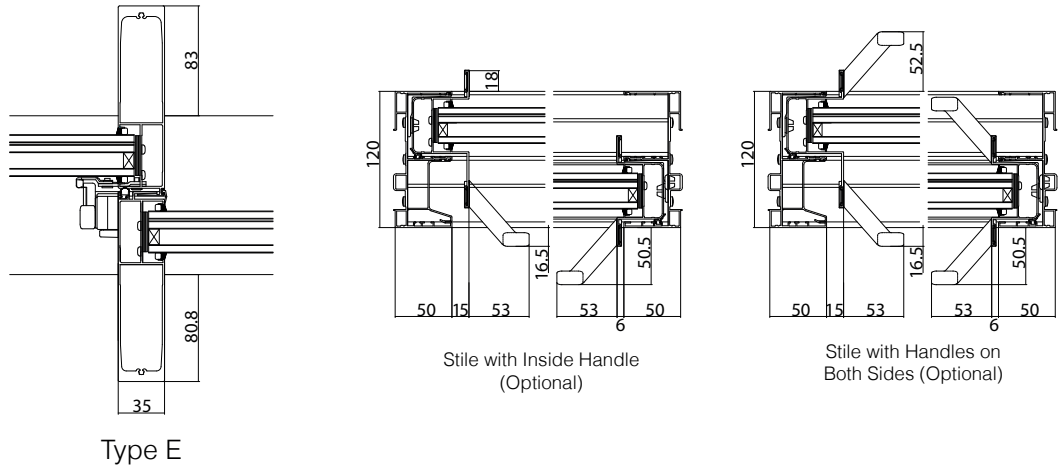
## SLIDING (2P2T, 3P2T, 4P2T)



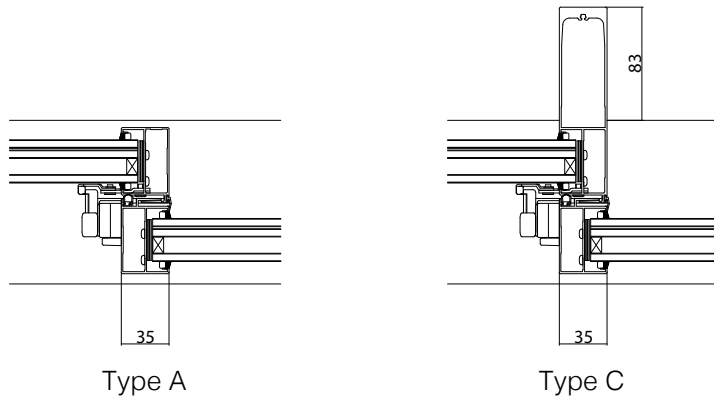
Vertical section: Sliding  
(2, 3 and 4 panels on 2 tracks)



Horizontal section: Sliding (2 panels on 2 tracks)



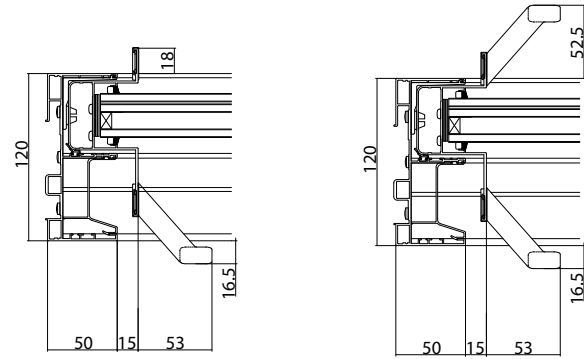
Horizontal section: Sliding (2 panels on 2 tracks) Type B



Type A

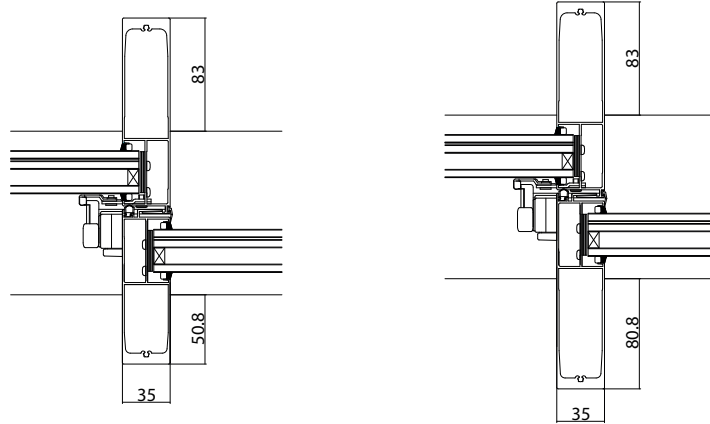
Type C

Horizontal section: Sliding (3 panels on 2 tracks)



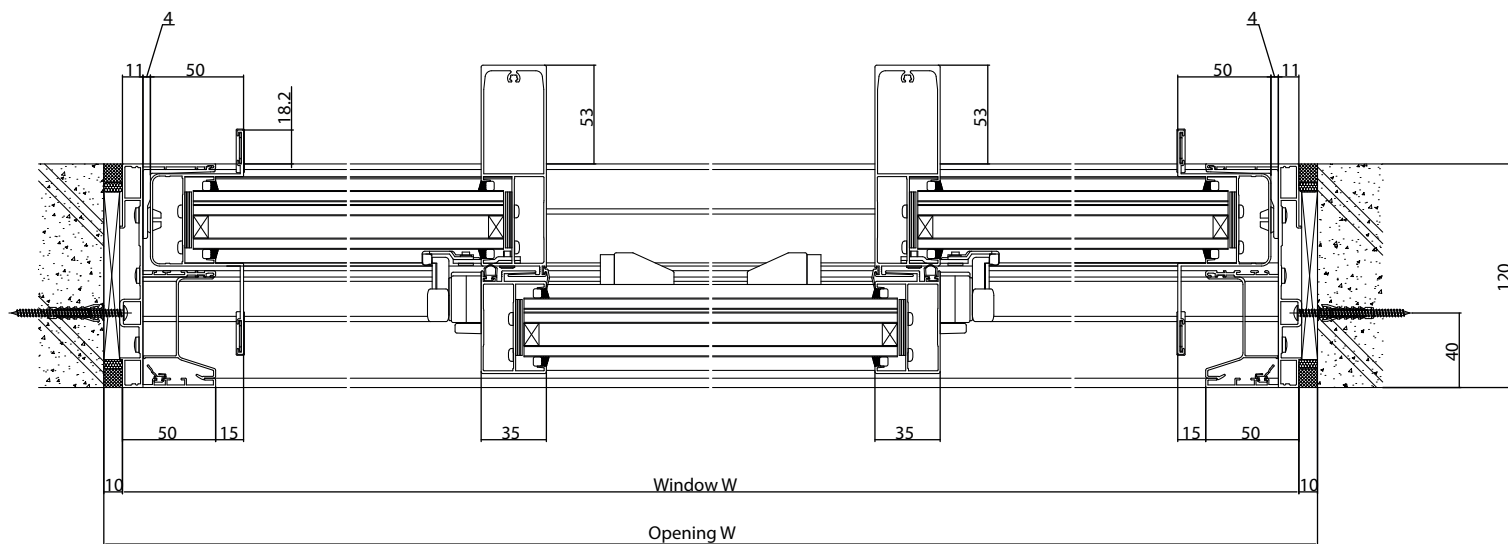
Stile with Inside Handle  
(Optional)

Stile with Handles on  
Both Sides (Optional)

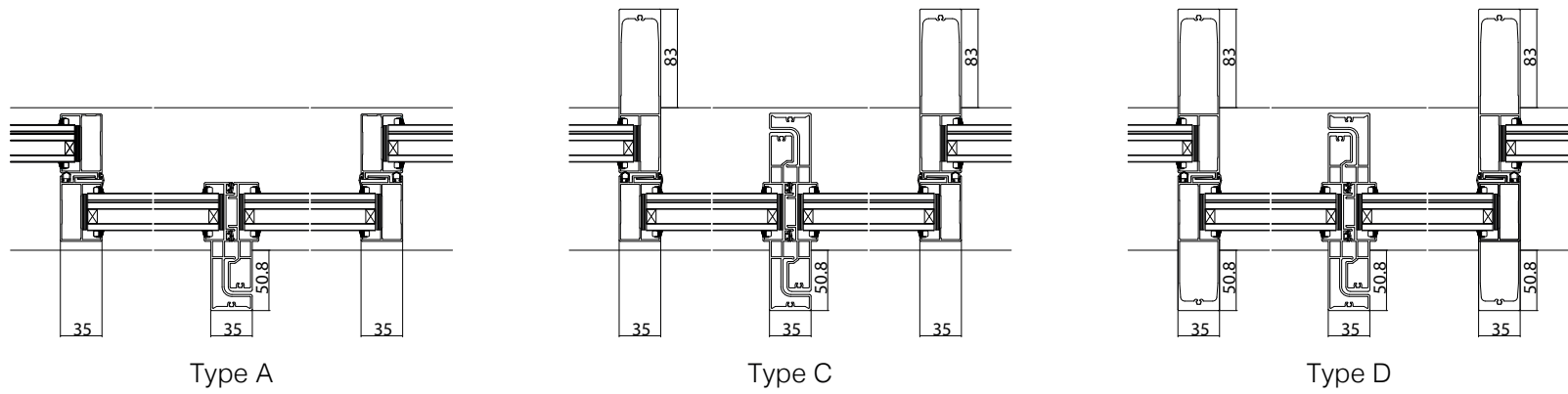


Type D

Type E



Horizontal section: Sliding (3 panels on 2 tracks) Type B

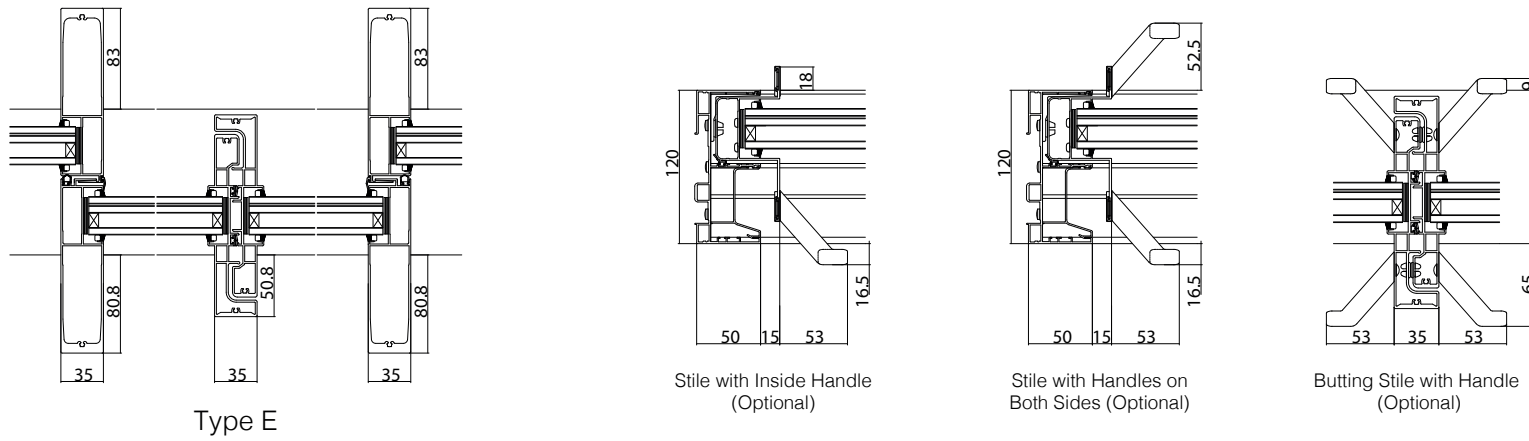


Type A

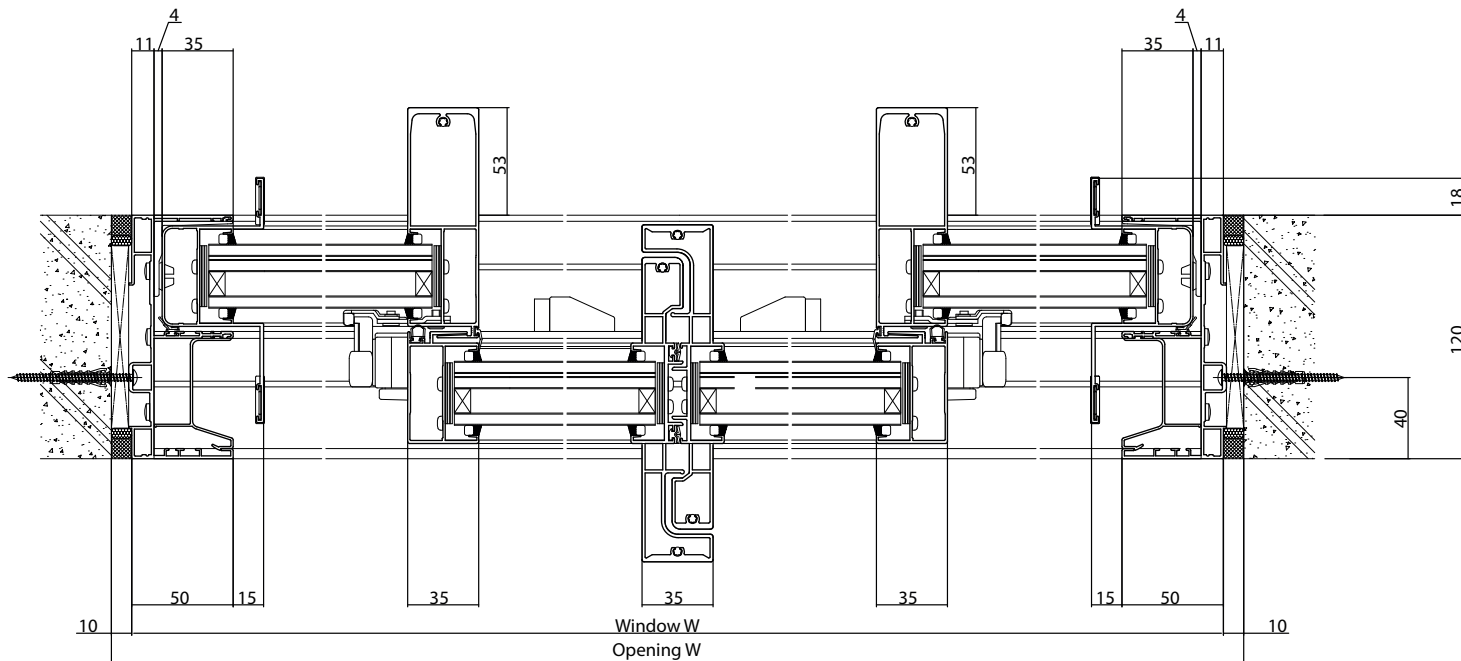
Type C

Type D

Horizontal section: Sliding (4 panels on 2 tracks)



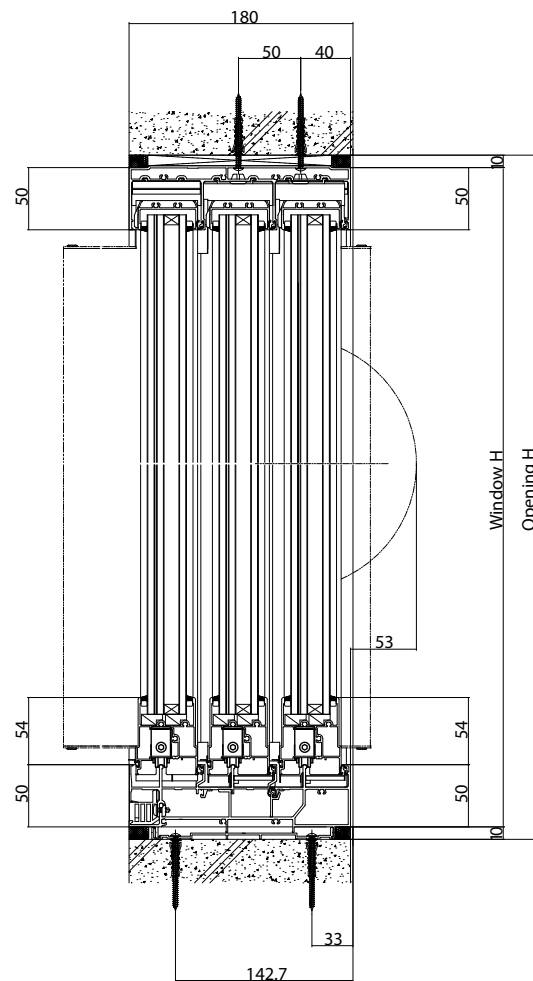
Type E

Stile with Inside Handle  
(Optional)Stile with Handles on  
Both Sides (Optional)Butting Stile with Handle  
(Optional)

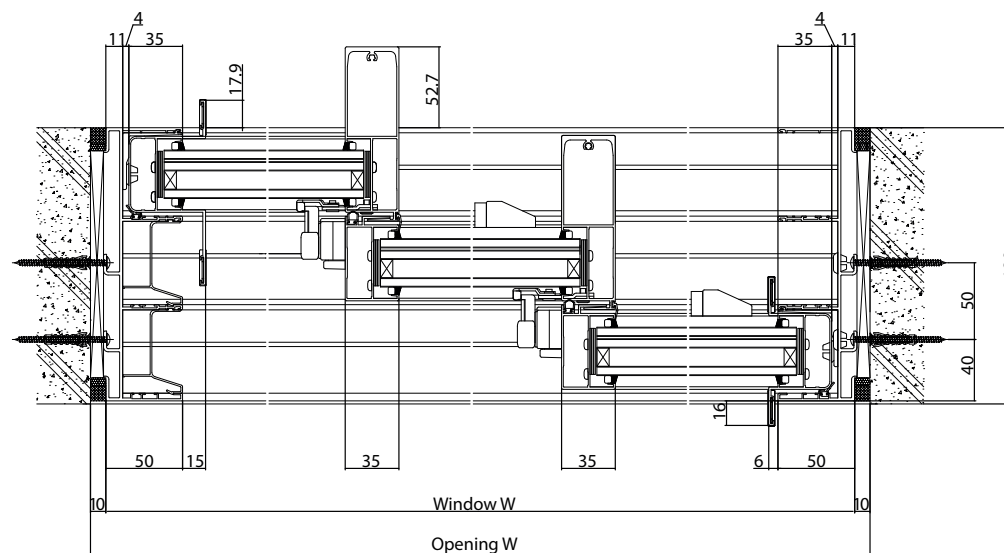
Horizontal section: Sliding (4 panels on 2 tracks) Type B

# GRANTS

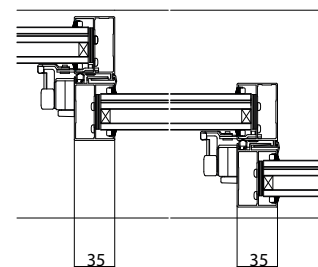
## SLIDING (3P3T, 6P3T)



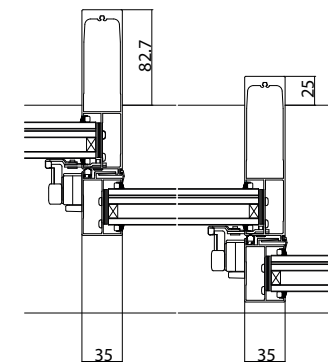
Vertical section: Sliding (3 and 6 panels on 3 tracks)



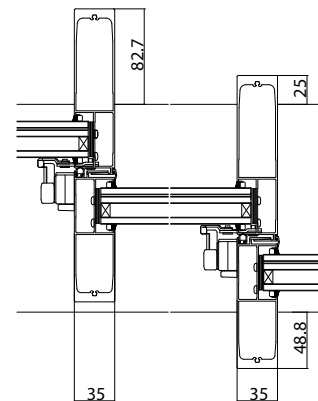
Horizontal section: Sliding (3 panels on 3 tracks) Type B



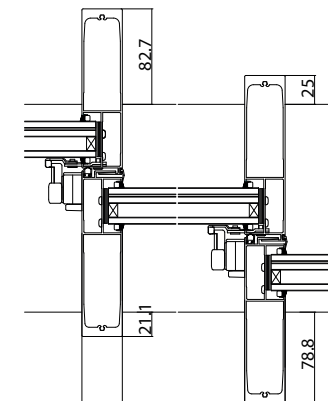
Type A



Type C

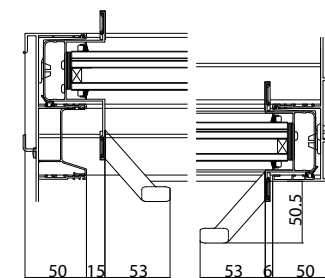


Type D

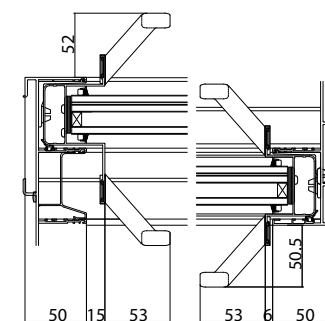


Type E

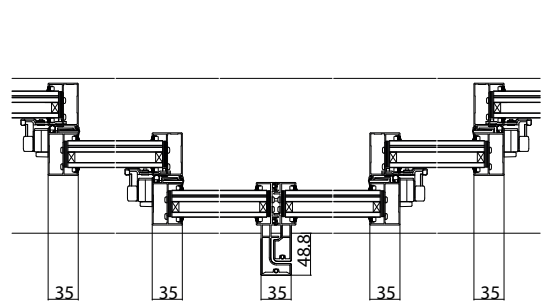
Horizontal section: Sliding (3 panels on 3 tracks)



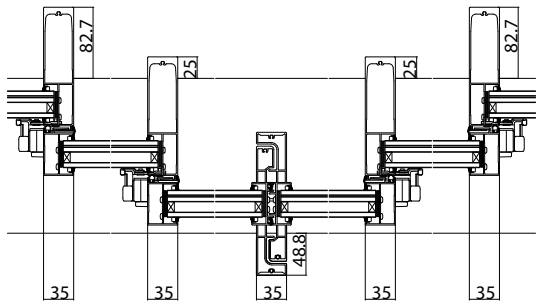
Stile with Inside Handle (Optional)



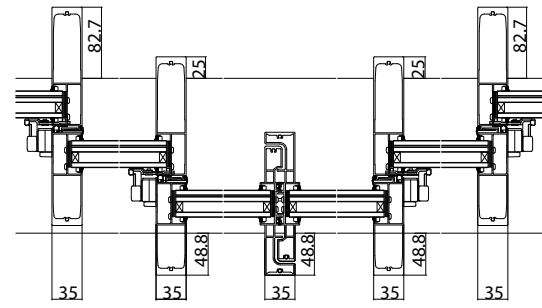
Stile with Handles on Both Sides (Optional)



Type A

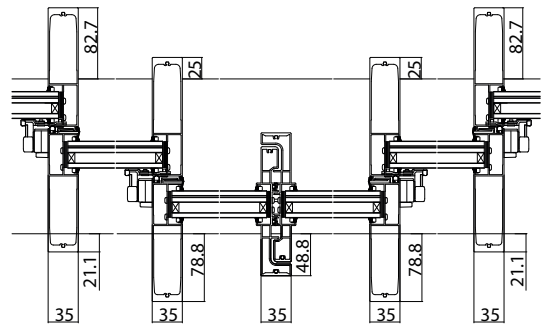


Type C

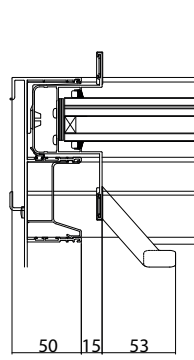


Type D

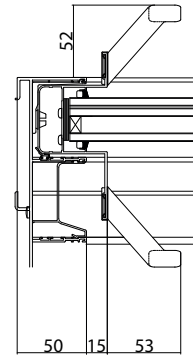
Horizontal section: Sliding (6 panels on 3 tracks)



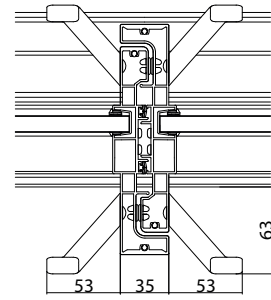
Type E



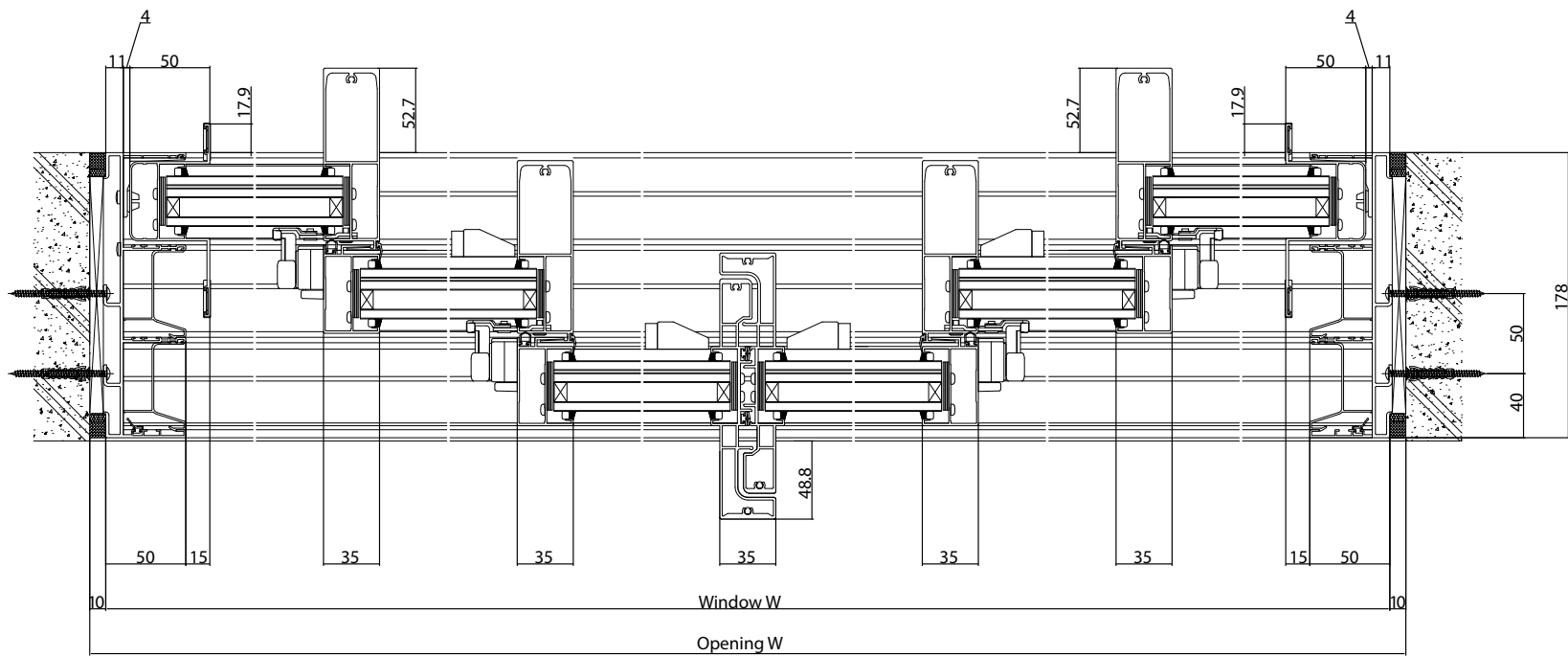
Stile with Inside Handle (Optional)



Stile with Handles on Both Sides (Optional)



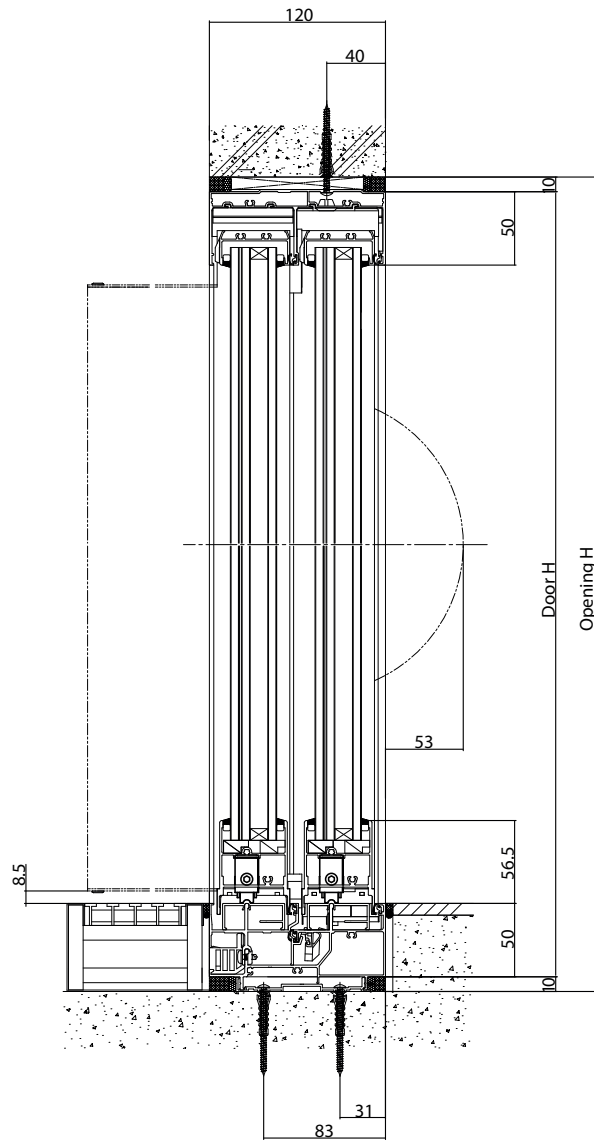
Butting Stile with Handle (Optional)



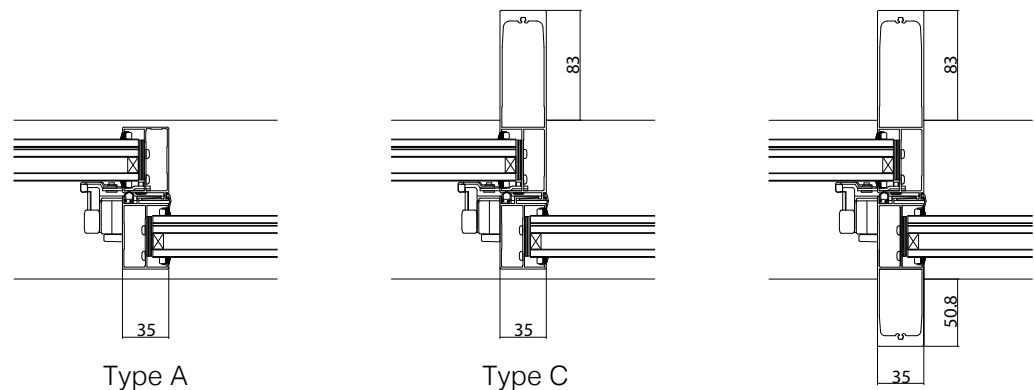
Horizontal section: Sliding (6 panels on 3 tracks) Type B

# GRANTS

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



Vertical section: Sliding flat-rail  
(2 and 4 panels on 2 tracks)

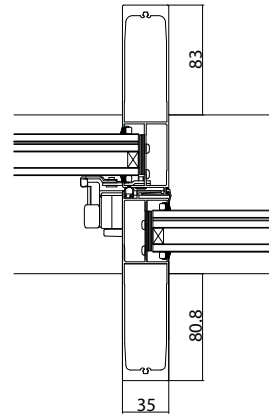


Type A

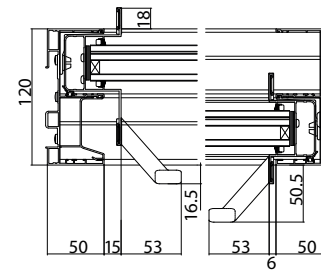
Type C

Type D

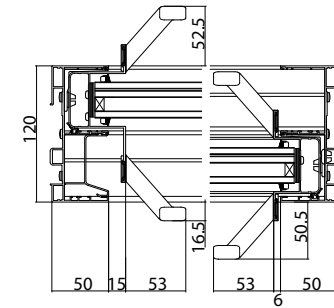
Horizontal section: Sliding (2 panels on 2 tracks)



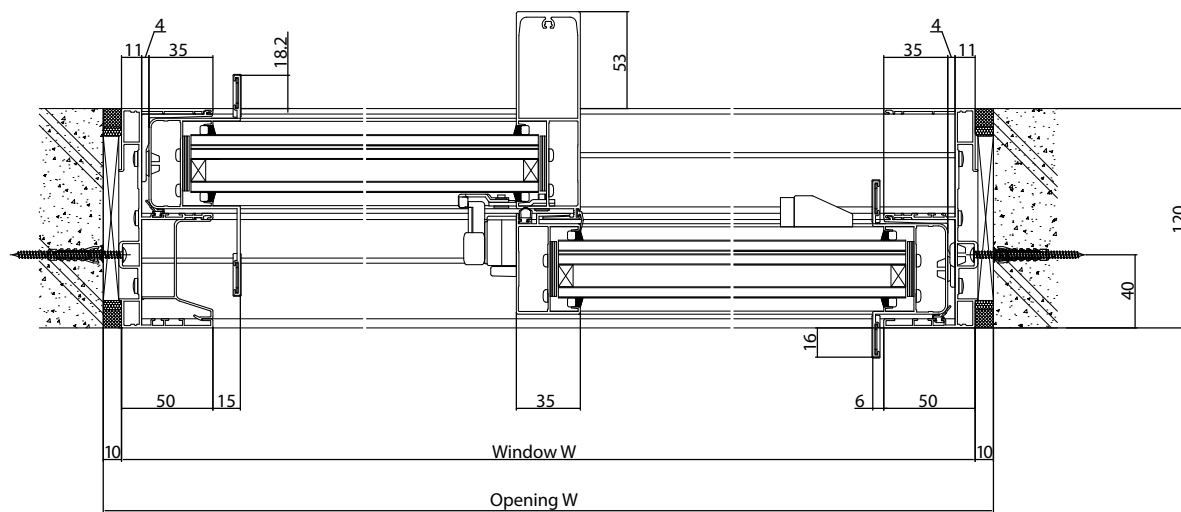
Type E



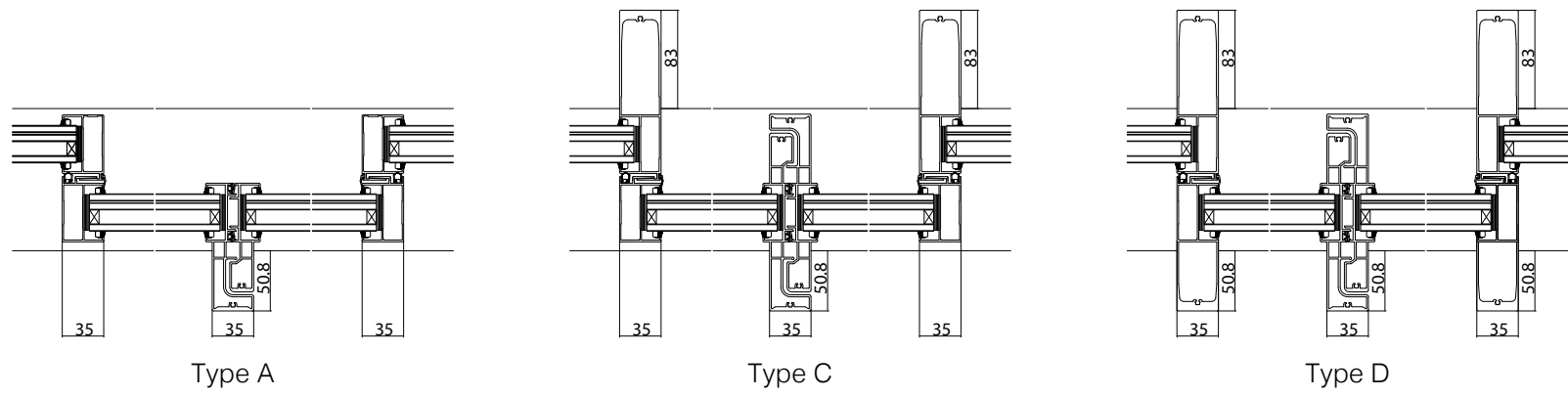
Stile with Inside Handle  
(Optional)



Stile with Handles on  
Both Sides (Optional)



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

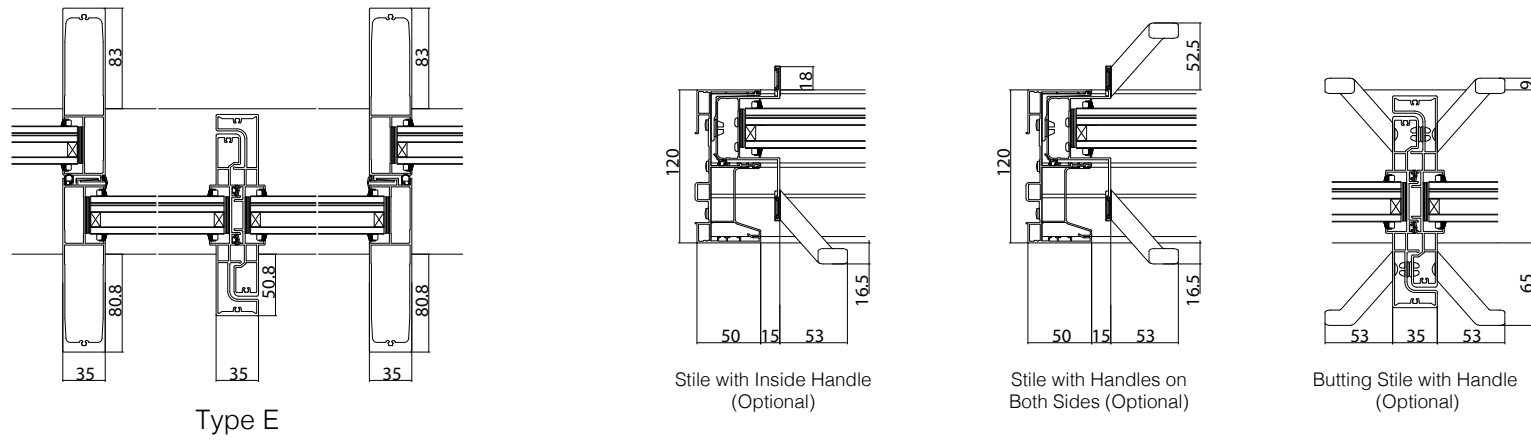


Type A

Type C

Type D

Horizontal section: Sliding (4 panels on 2 tracks)

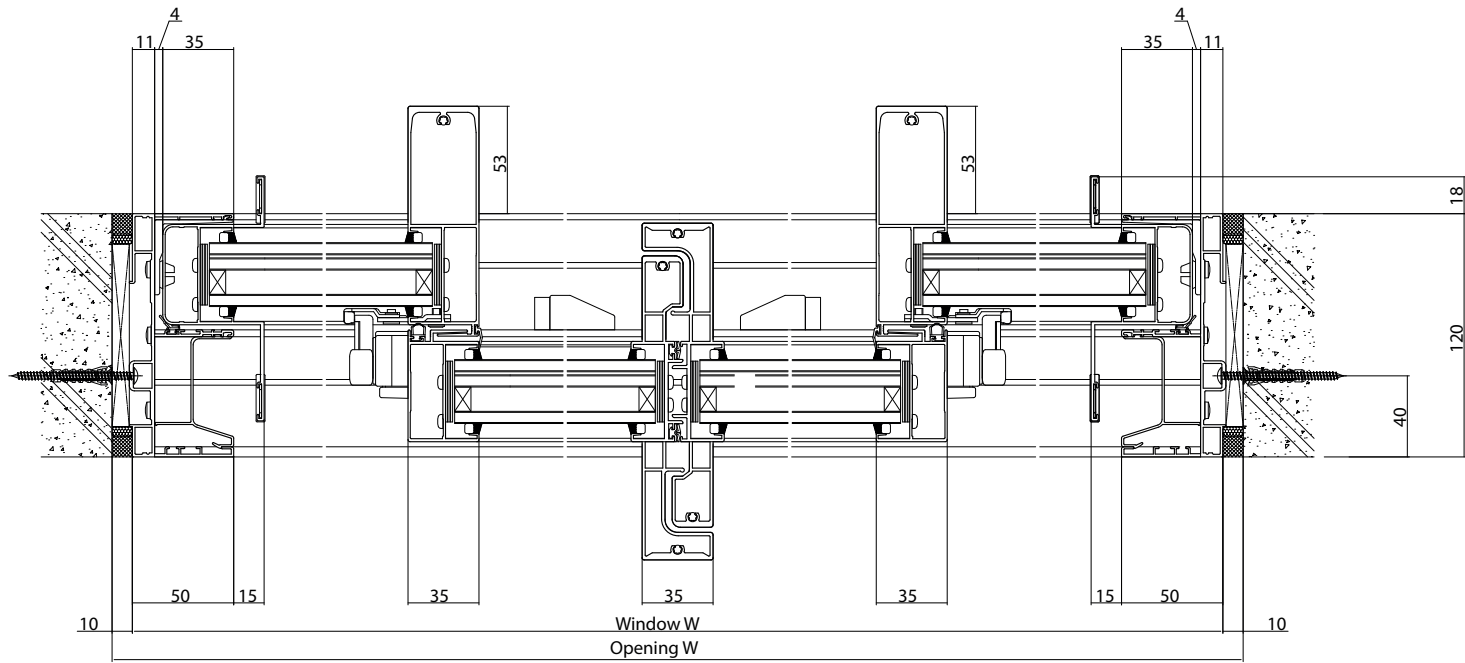


Type E

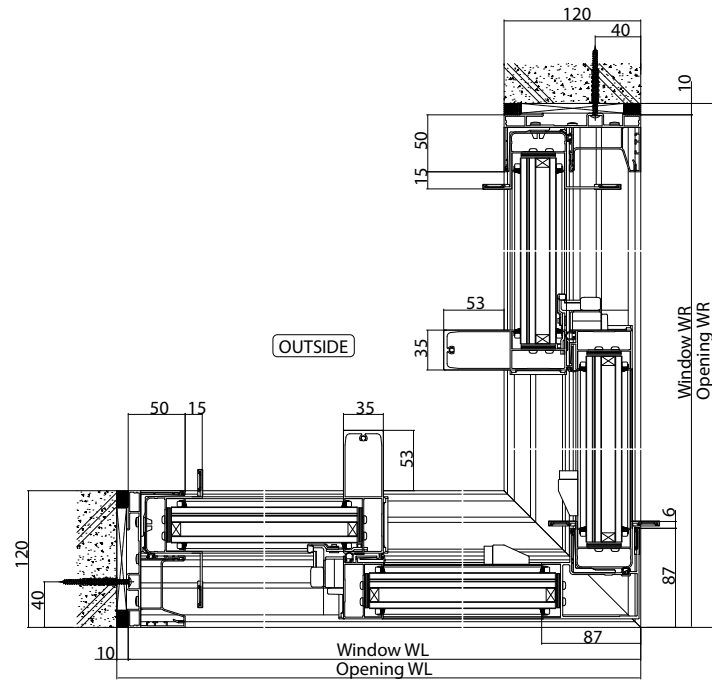
Stile with Inside Handle  
(Optional)

Stile with Handles on  
Both Sides (Optional)

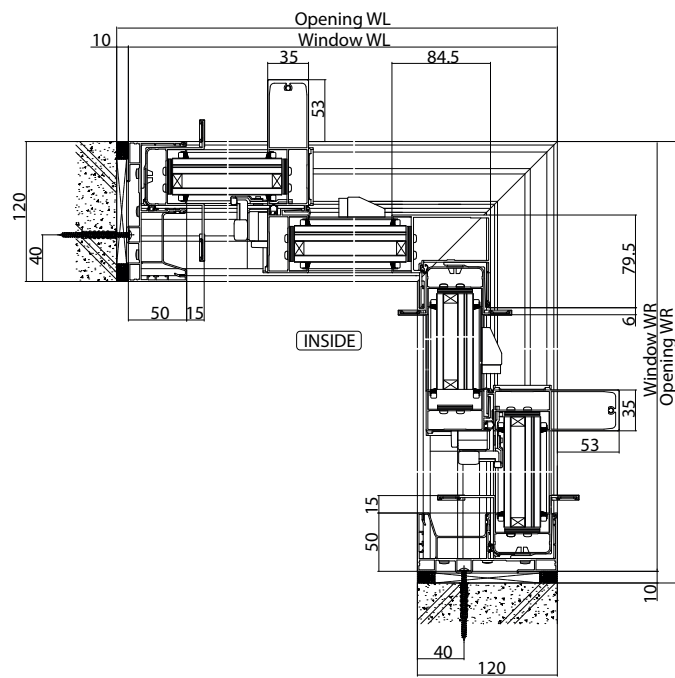
Butting Stile with Handle  
(Optional)



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



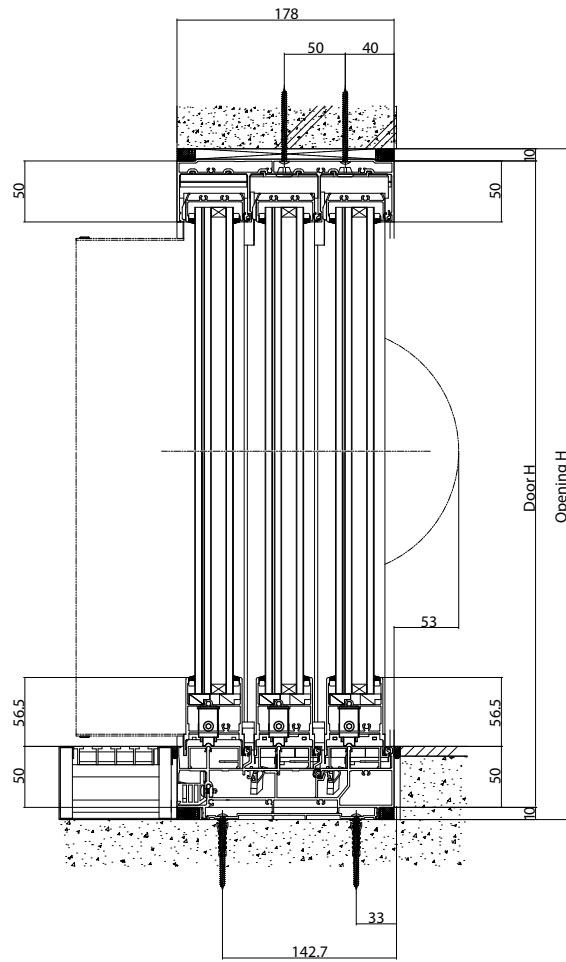
Horizontal section: Inward Corner Sliding (2+2 panels on 2 tracks)



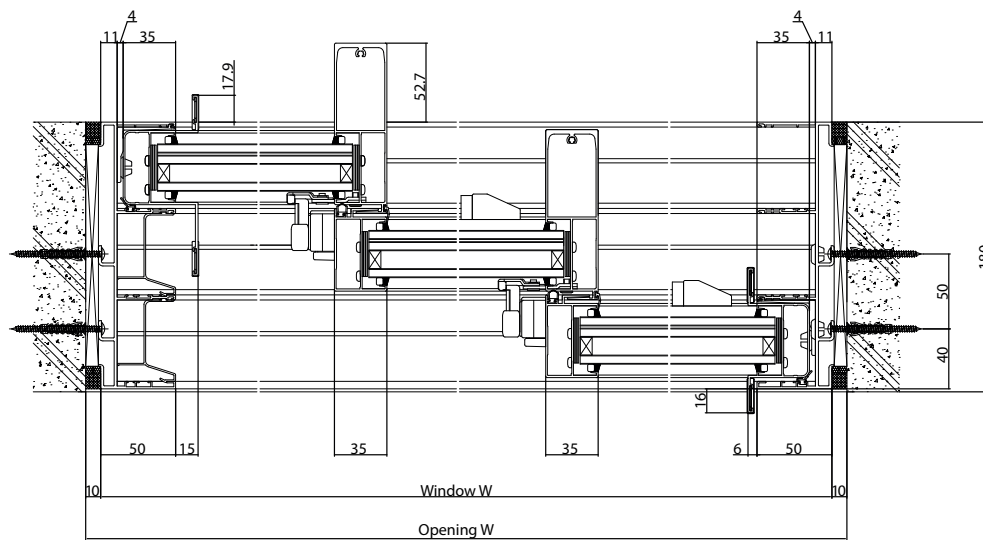
Horizontal section: Outward Corner Sliding (2+2 panels on 2 tracks)

# GRANTS

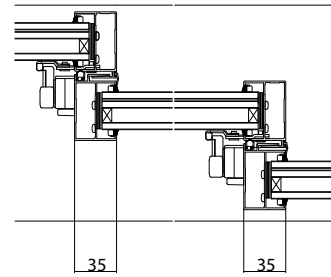
## SLIDING FLAT-RAIL (3P3T, 6P3T)



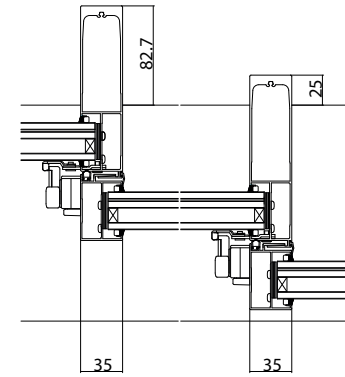
Vertical section: Sliding flat-rail (3 and 6 panels on 3 tracks)



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

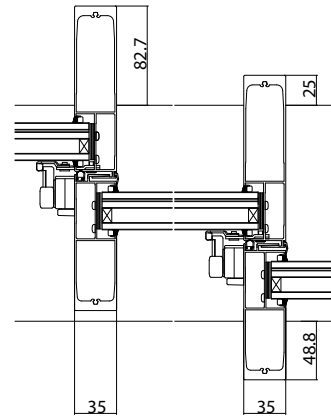


Type A

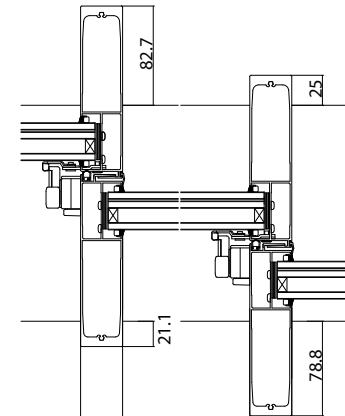


Type C

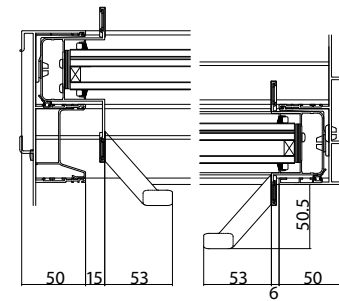
Horizontal section: Sliding (3 panels on 3 tracks)



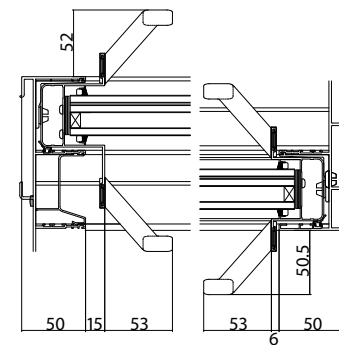
Type D



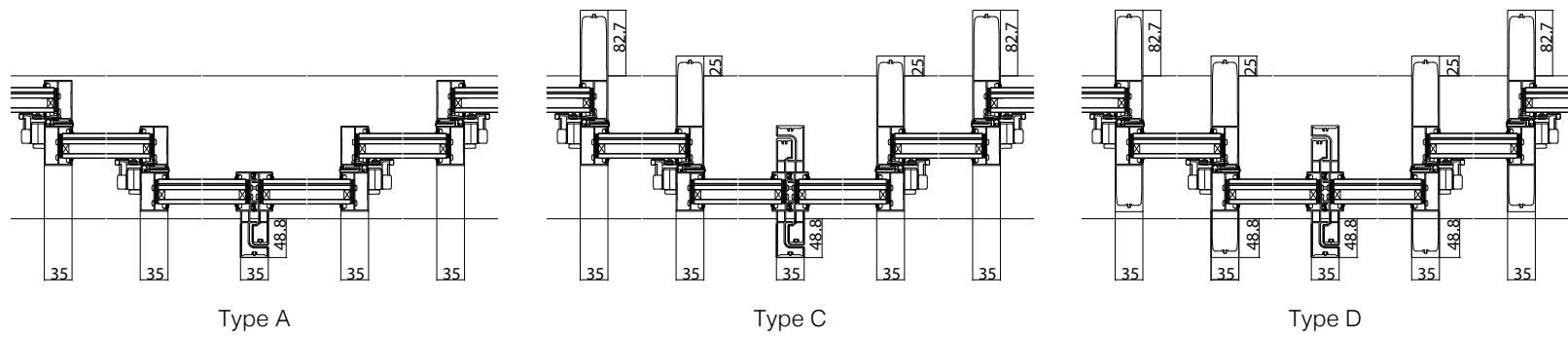
Type E



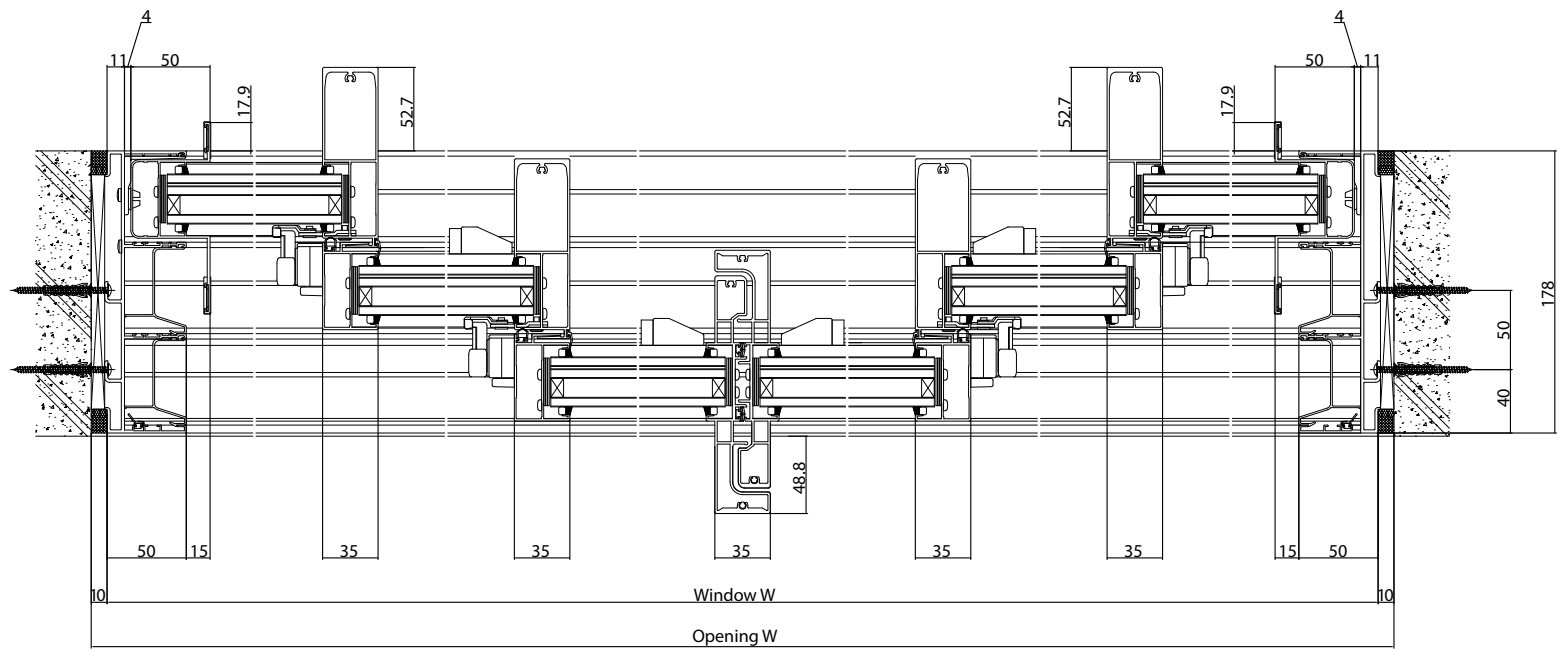
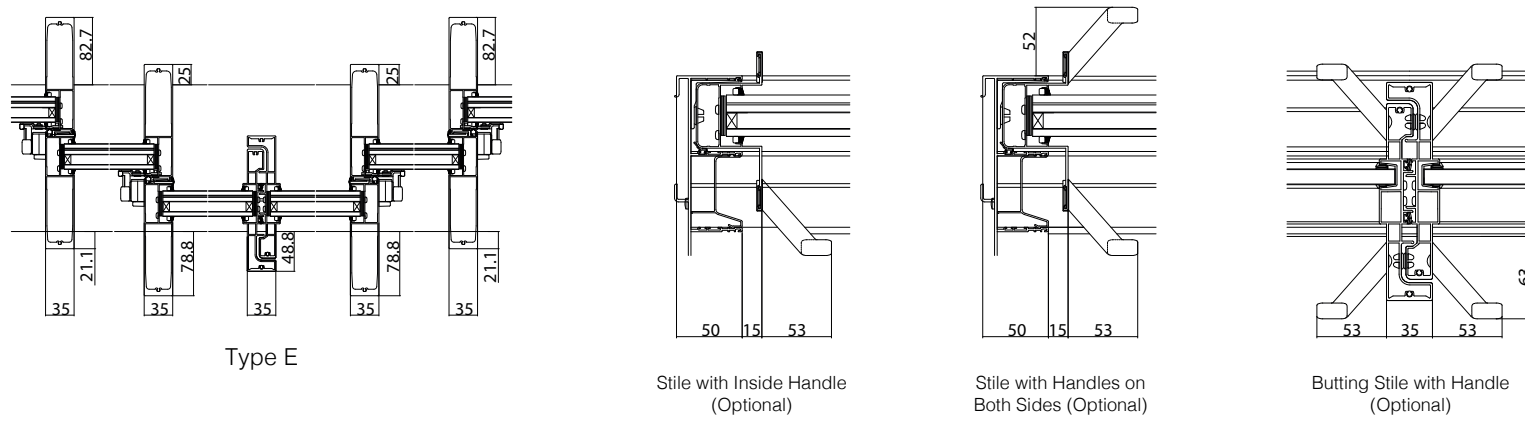
Stile with Inside Handle (Optional)



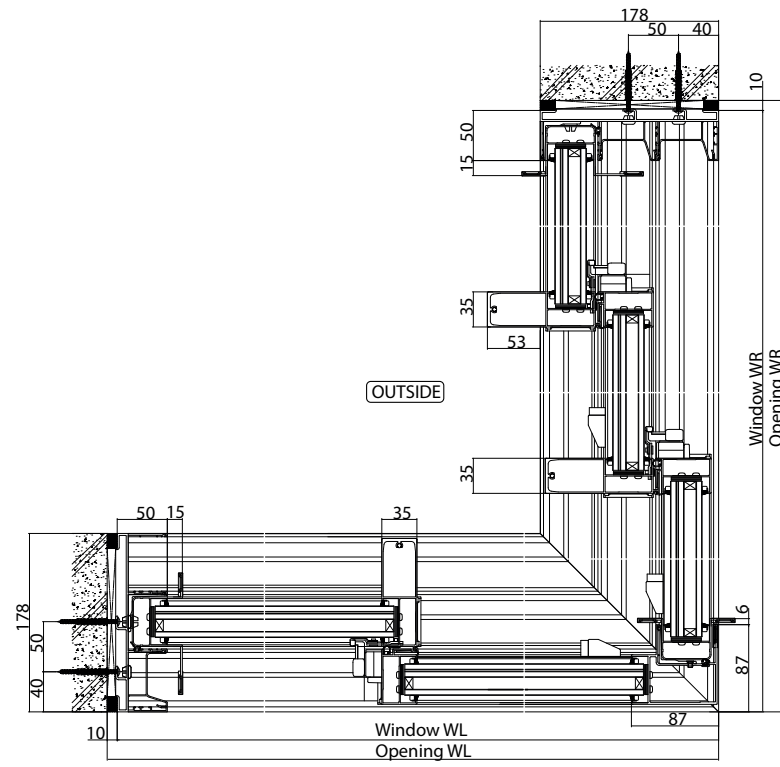
Stile with Handles on Both Sides (Optional)



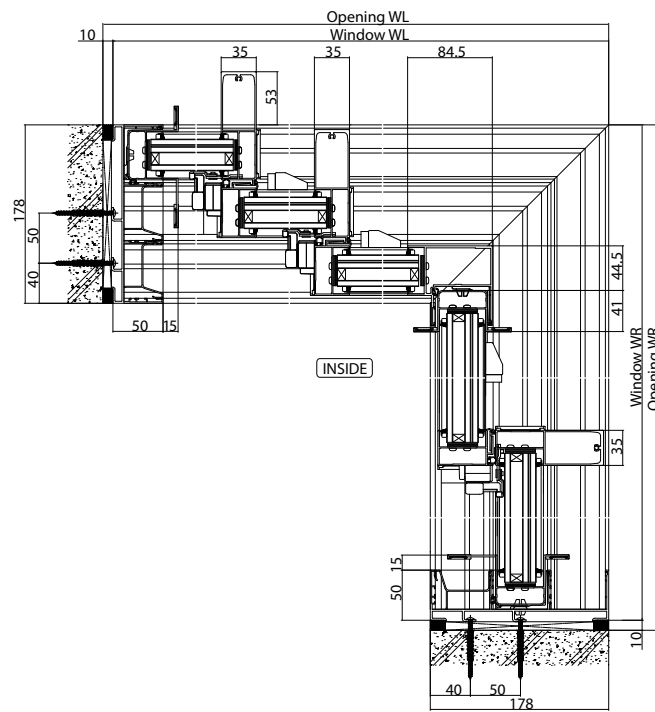
Horizontal section: Sliding (6 panels on 3 tracks)



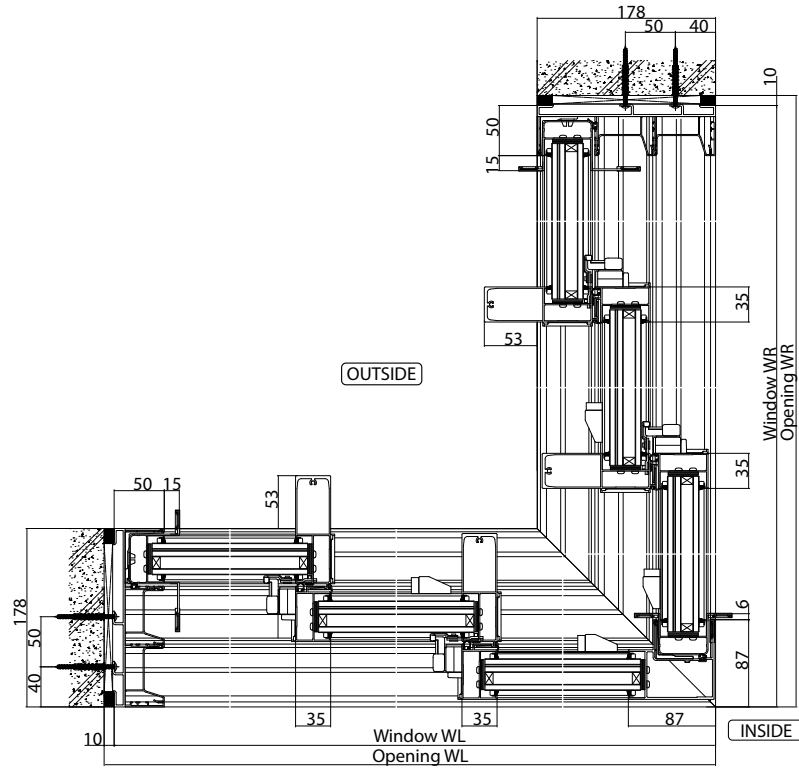
Horizontal section: Sliding (6 panels on 3 tracks) Type B



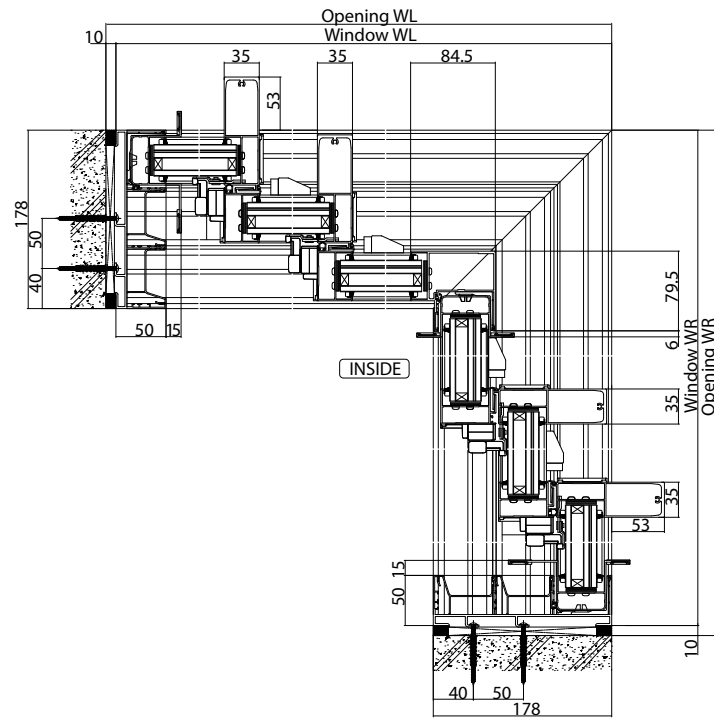
Horizontal section: Inward Corner Sliding (3+2 panels on 3 tracks)



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



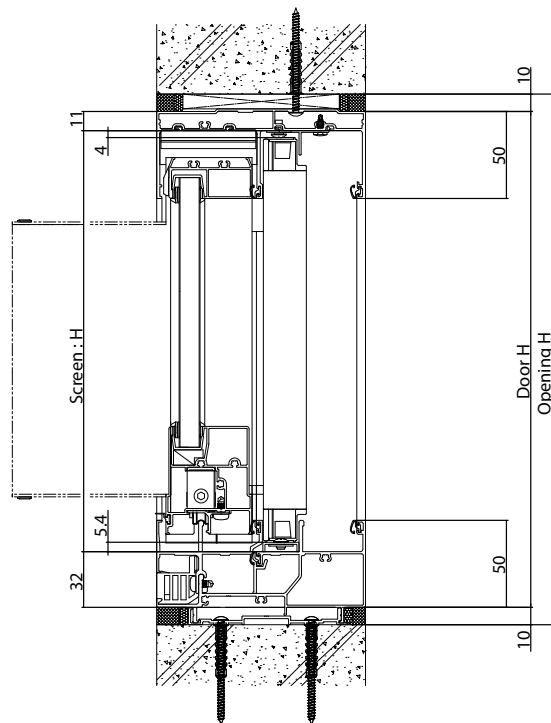
Horizontal section: Inward Corner Sliding (3+3 panels on 3 tracks)



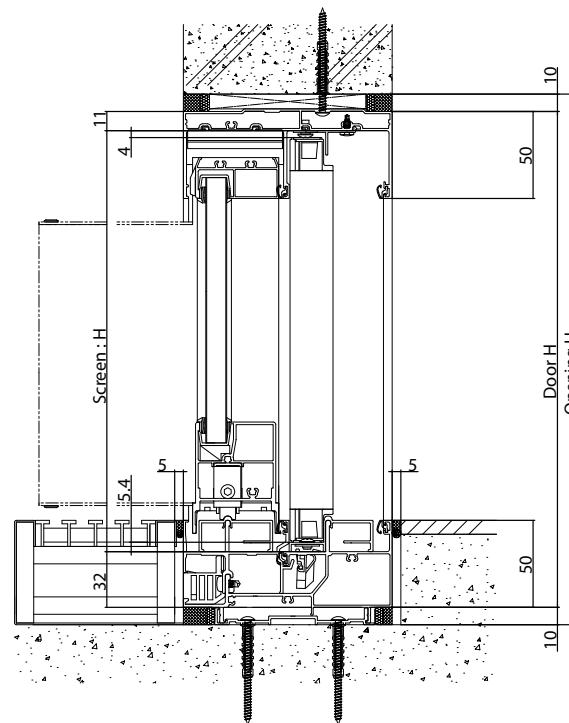
Horizontal section: Outward Corner Sliding (3+3 panels on 3 tracks)

## GRANTS

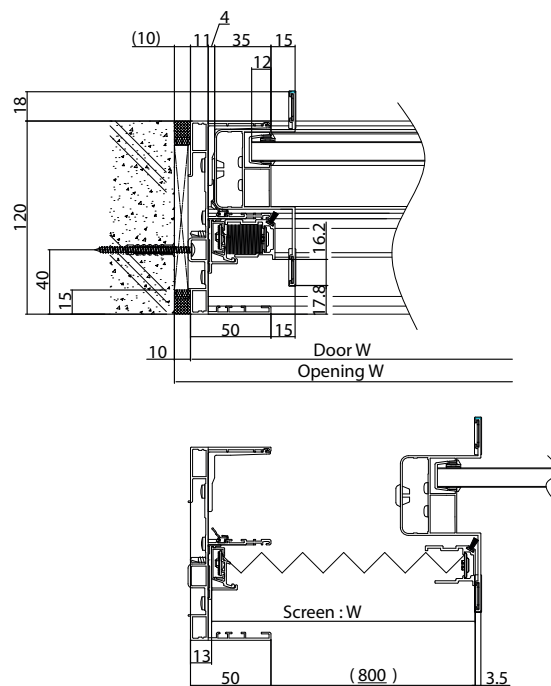
## SLIDING WITH SCREEN



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

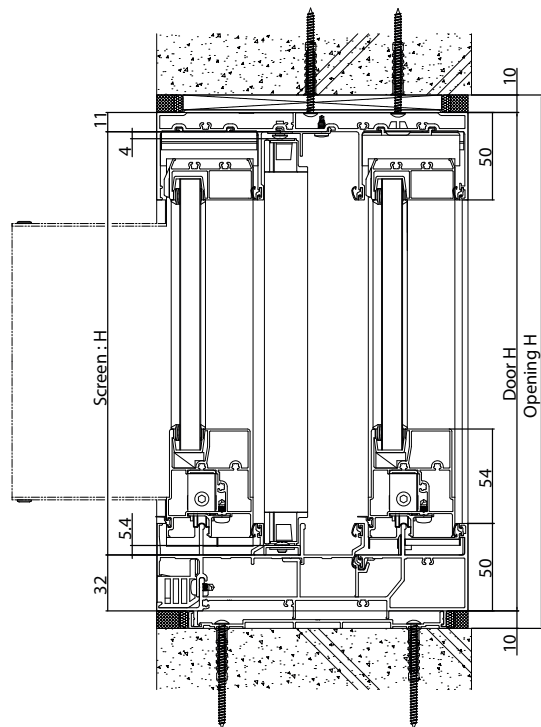


Vertical section: Flat rail sliding with screen  
(inside type, 2 tracks)

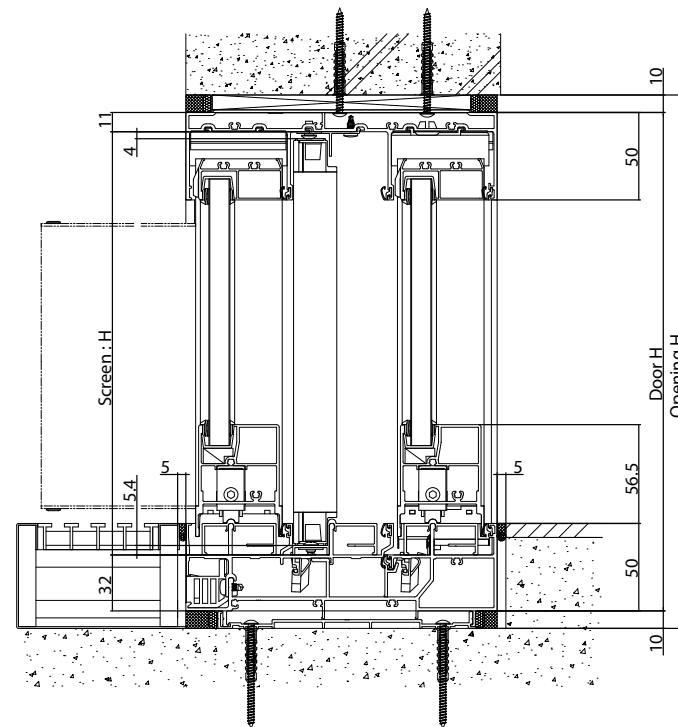


Horizontal section: Sliding with screen (inside type, 2 tracks)

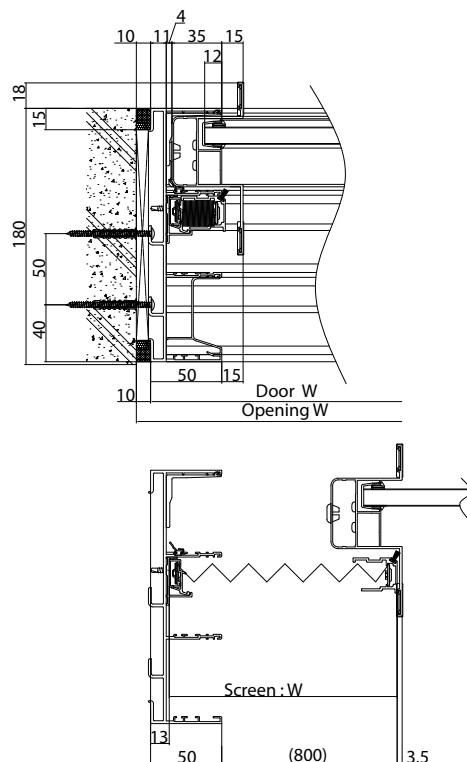
Type	Rough sketch	
2P2T	(Outside) L ■ ○ ○ (Inside)	○ ○ ○ R ■
3P2T	L ■ ○ ○ ○ ○ R ■ (Normal type only)	
4P2T	L ■ ○ ○ ○ ○ ○ R ■	
2P2T Outward Corner	(Outside) L ■ ○ ○ (Inside) ○ ○ ○	(Outside) ○ ○ ○ (Inside) ○ ○ ○ R ■
2P2T Inward Corner	(Outside) ○ ○ ○ (Inside) L ■ ○ ○ ○	(Outside) ○ ○ ○ (Inside) ○ ○ ○ R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



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

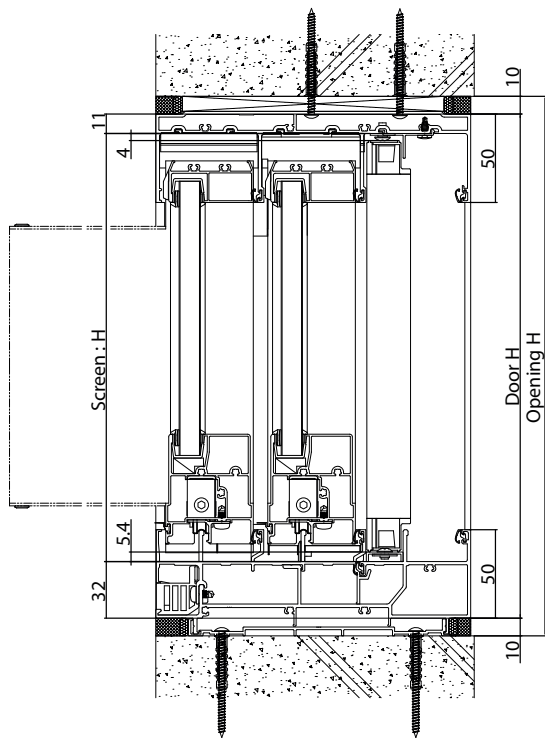


Vertical section: Flat rail sliding with screen  
(inside type, 3 tracks)

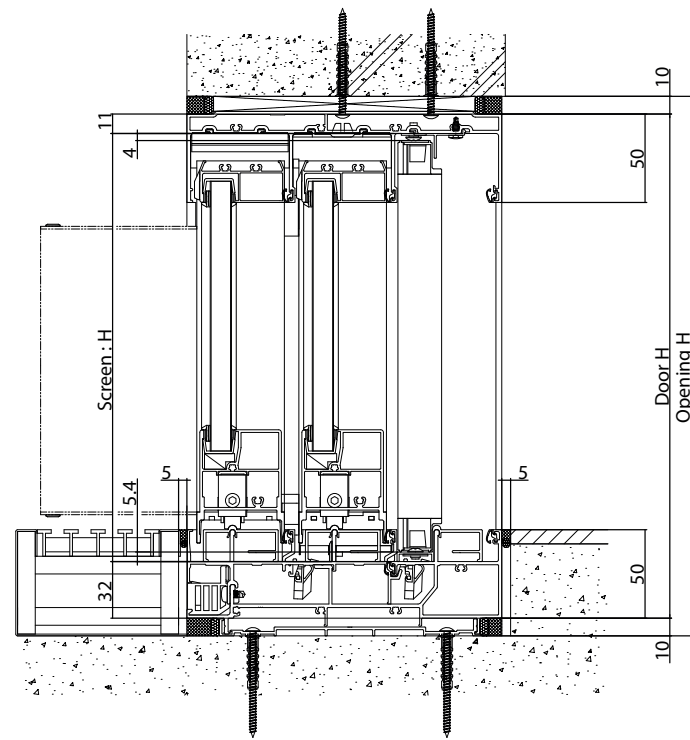


Horizontal section: Sliding with screen (inside type, 3 tracks)

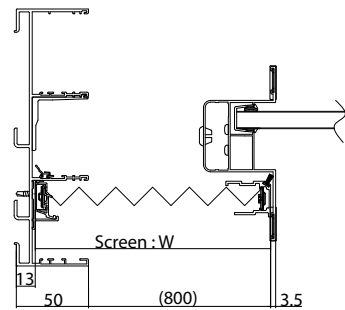
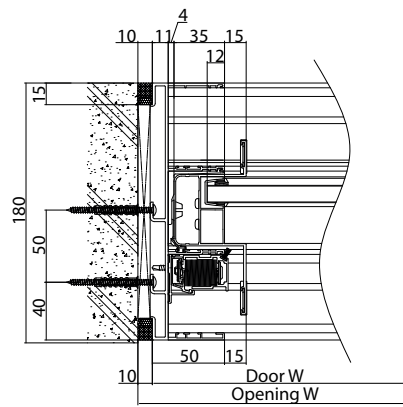
Type	Rough sketch	
3P3T	(Outside) L ■ (Inside)	R
6P3T		
3P3T Outward Corner	(Outside) L ■ (Inside)	(Outside) R
3P3T Inward Corner	(Outside) L ■ (Inside)	(Outside) R



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

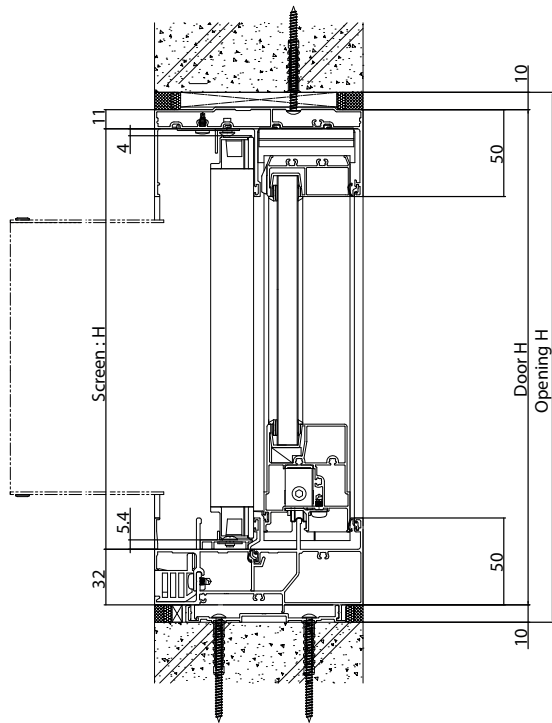


Vertical section: Flat rail sliding with screen  
(inside type, 3 tracks)

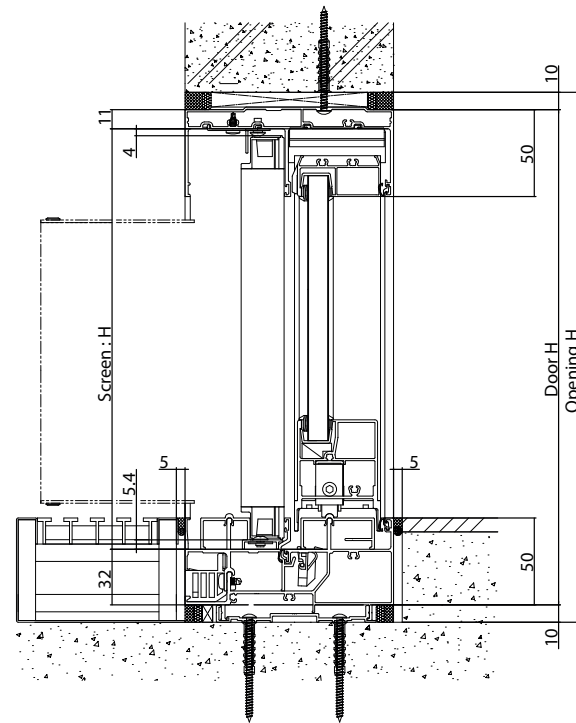


Horizontal section: Sliding with screen (inside type, 3 tracks)

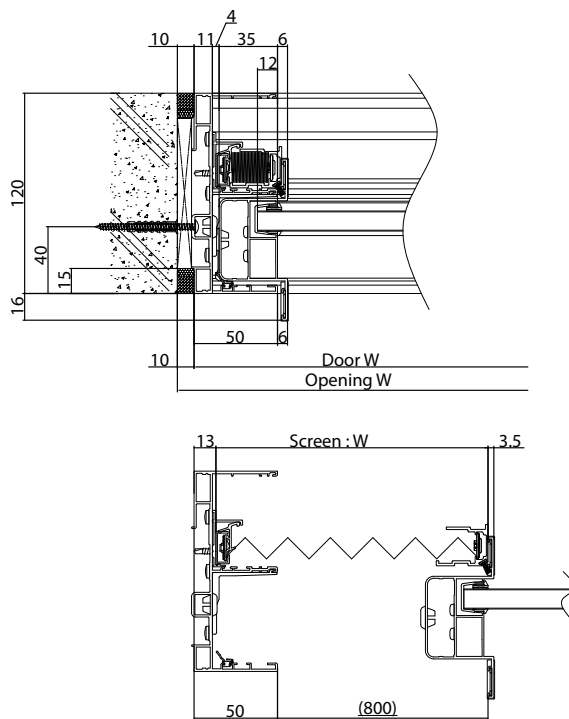
Type	Rough sketch	
2P3T Outward Corner	<p>(Outside)</p> <p>(Inside)</p>	<p>(Outside)</p> <p>(Inside)</p> <p>R</p>
2P3T Inward Corner	<p>(Outside)</p> <p>(Inside)</p> <p>L</p>	<p>(Outside)</p> <p>(Inside)</p> <p>R</p>



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

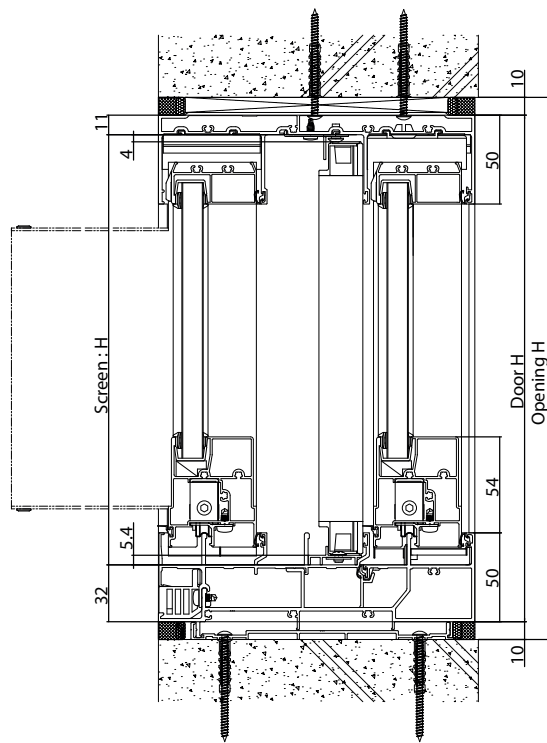


Vertical section: Flat rail sliding with screen  
(outside type, 2 tracks)

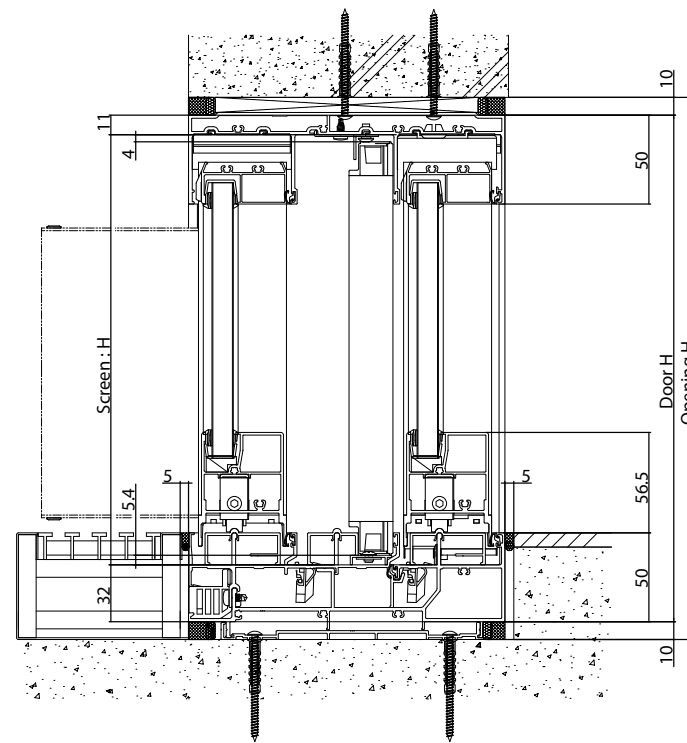


Horizontal section: Sliding with screen (outside type, 2 tracks)

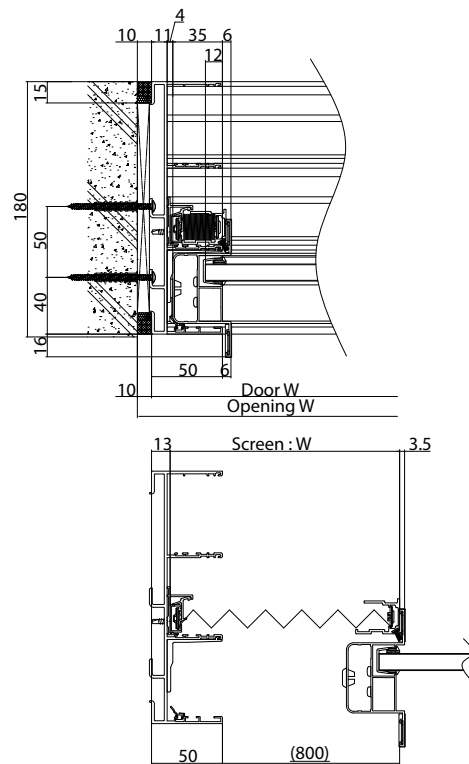
Type	Rough sketch	
2P2T	(Outside)	
	(Inside)	
3P2T		
4P2T		
2P2T Outward Corner	(Outside)	
	(Inside)	
2P2T Inward Corner	(Outside)	
	(Inside)	



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

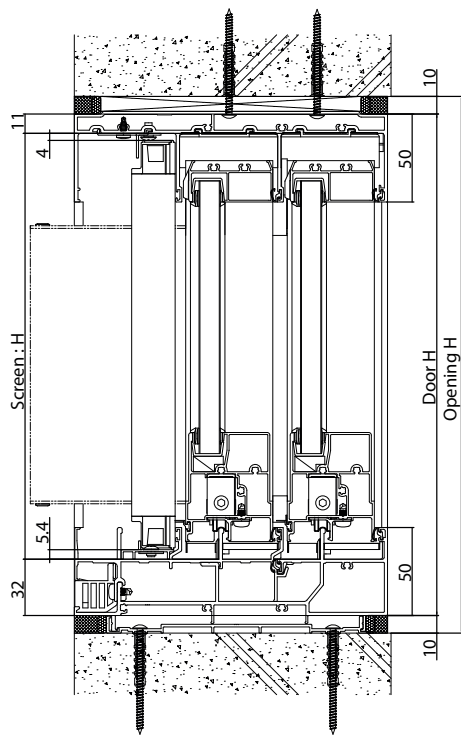


Vertical section: Flat rail sliding with screen  
(outside type, 3 tracks)

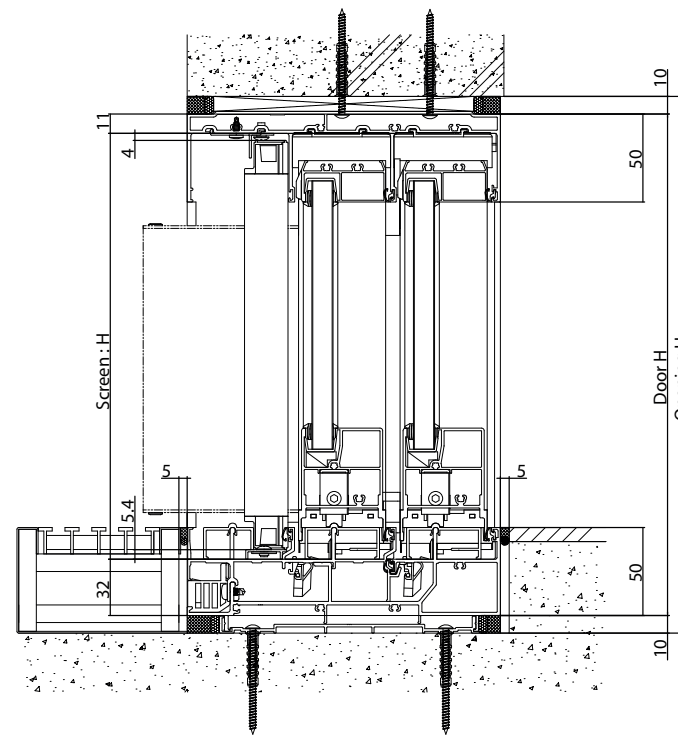


Horizontal section: Sliding with screen (outside type, 3 tracks)

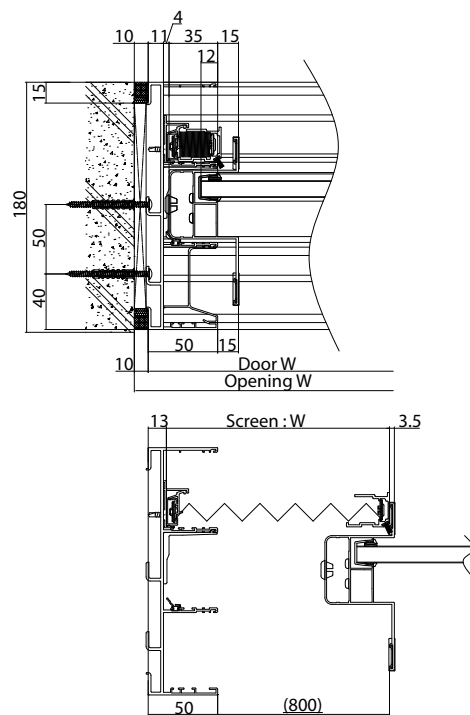
Type	Rough sketch	
3P3T	(Outside) (Inside)	R L
6P3T	L R	
3P3T Outward Corner	(Outside) (Inside)	(Outside) (Inside)
		R
3P3T Inward Corner	(Outside) (Inside)	(Outside) (Inside)
	L	R



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



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

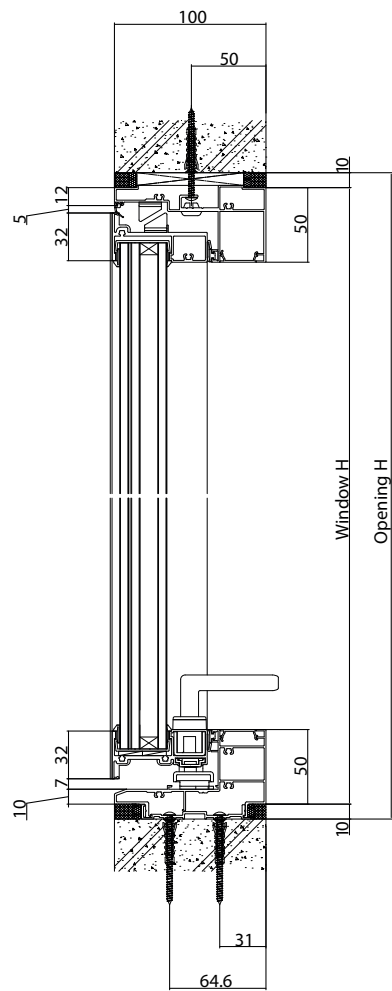


Horizontal section: Sliding with screen (outside type, 3 tracks)

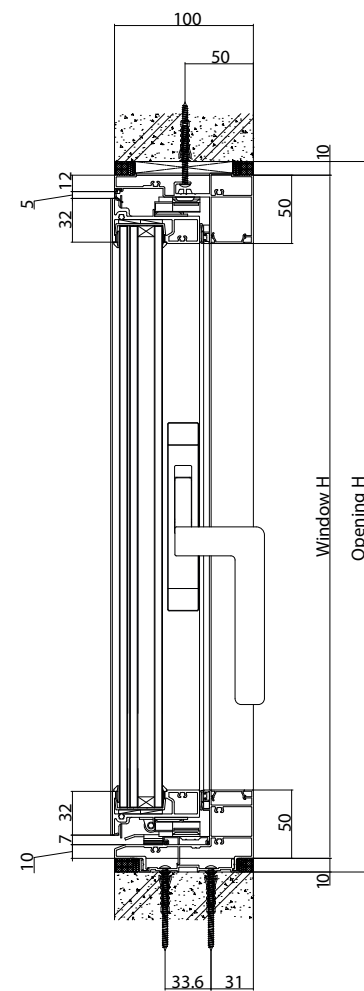
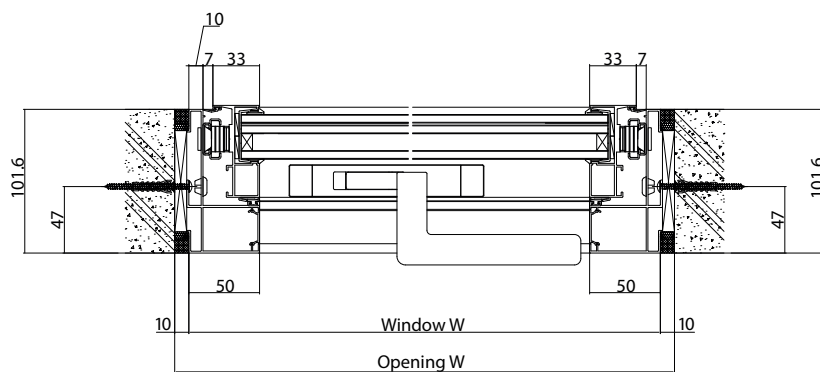
Type	Rough sketch	
2P3T Outward Corner	(Outside) L	(Outside) R
	(Inside)	(Inside)
2P3T Inward Corner	(Outside) L	(Outside) R
	(Inside)	(Inside)

## GRANTS

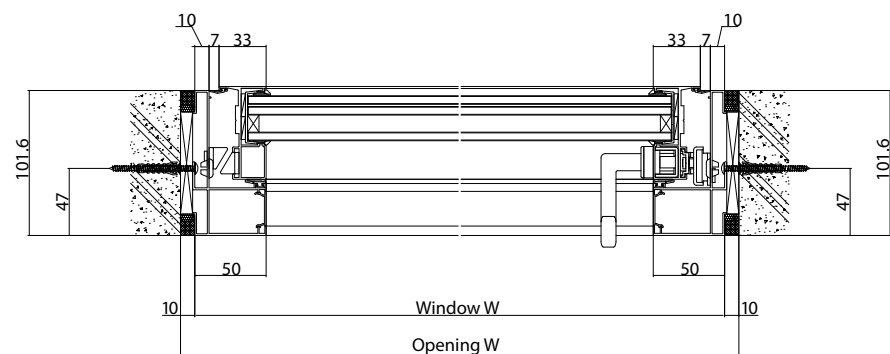
## AWNING, CASEMENT, FIXED WINDOW

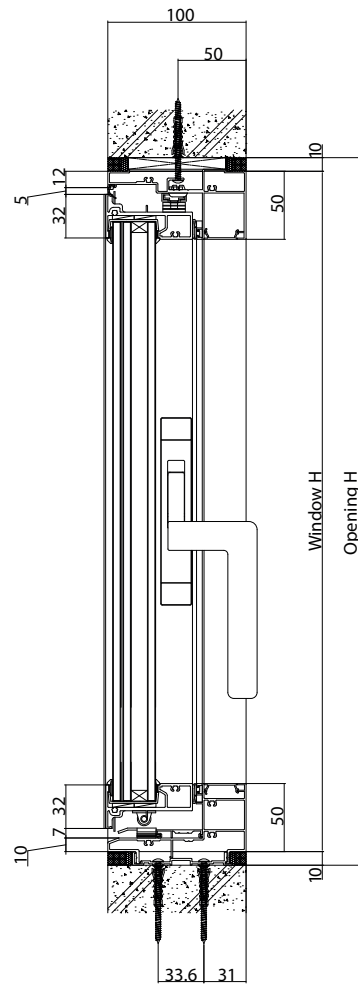


Vertical section: Awning window

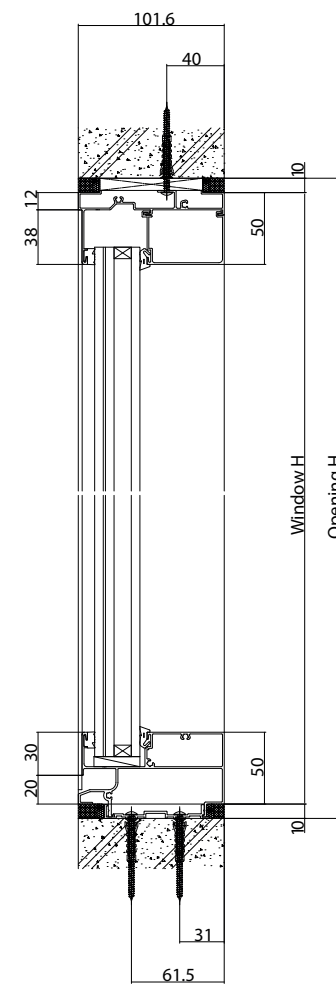
Vertical section:  
Casement window with friction stay

Horizontal section: Awning window

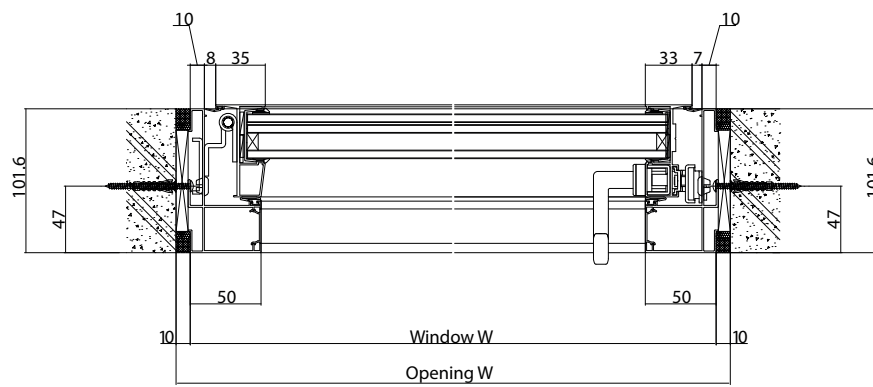
Horizontal section:  
Casement window with friction stay



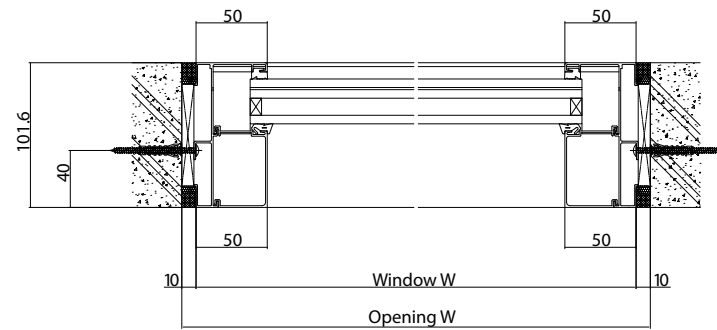
Vertical section: Casement window with hinge



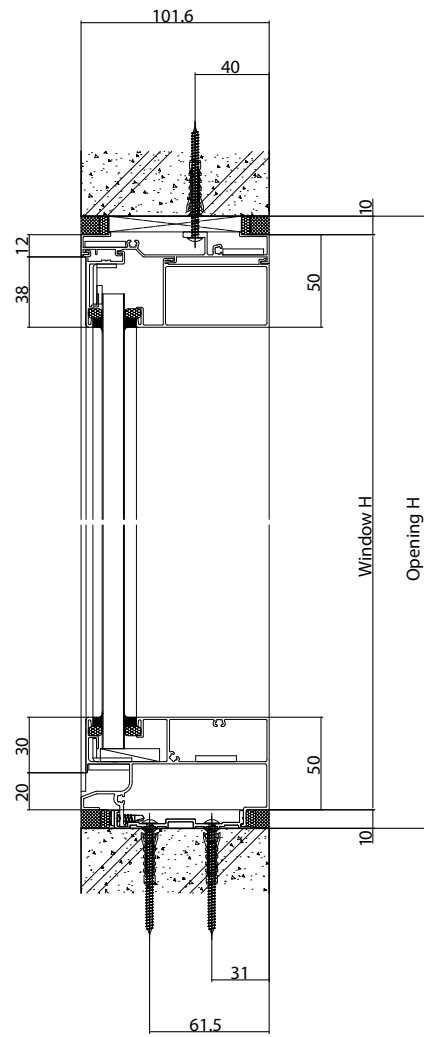
Vertical section: Fixed



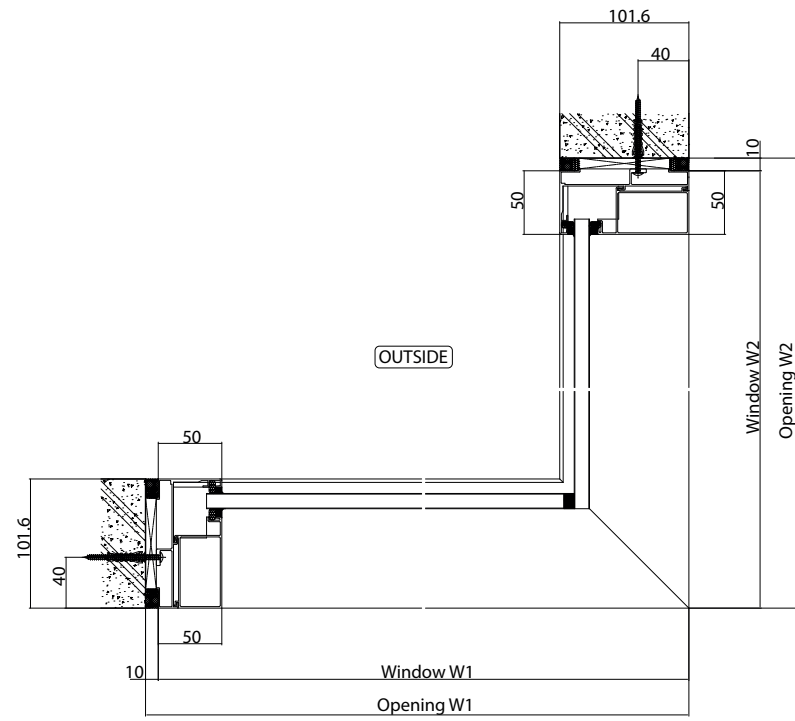
Horizontal section: Casement window with hinge



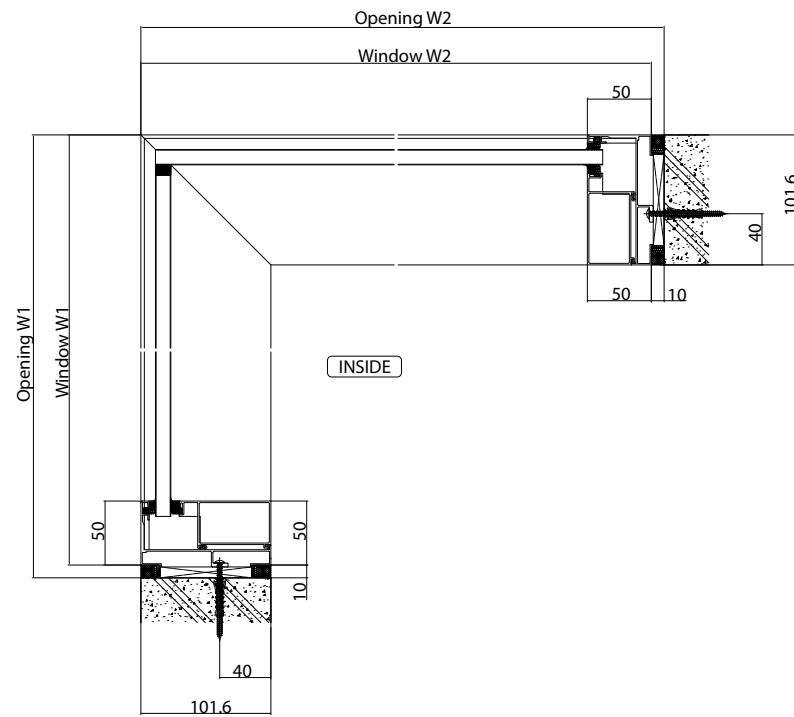
Horizontal section: Fixed



Vertical section: Corner Fixed



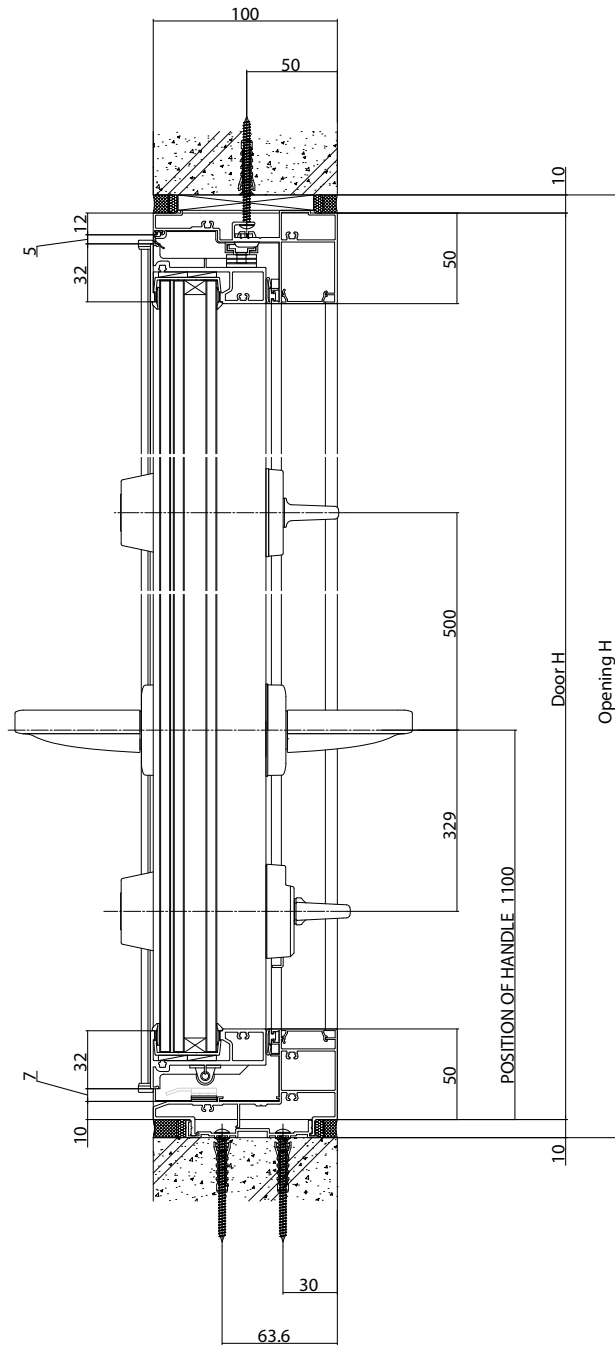
Horizontal section: Inward Corner Fixed



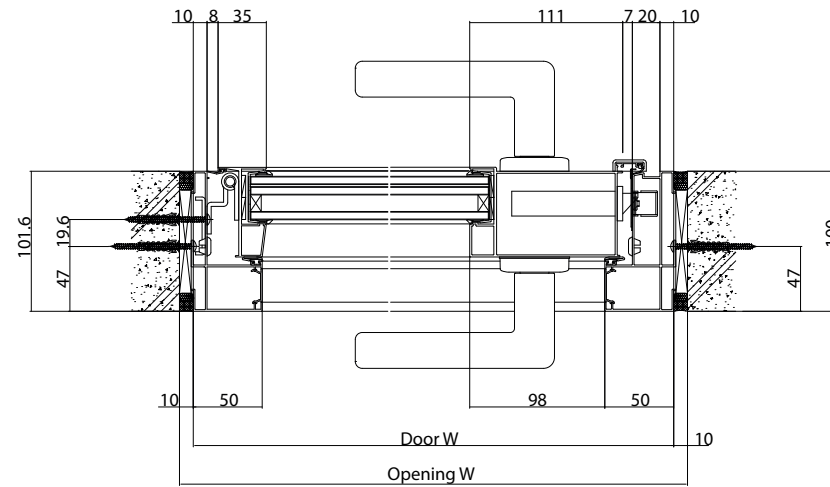
Horizontal section: Outward Corner Fixed

# GRANTS

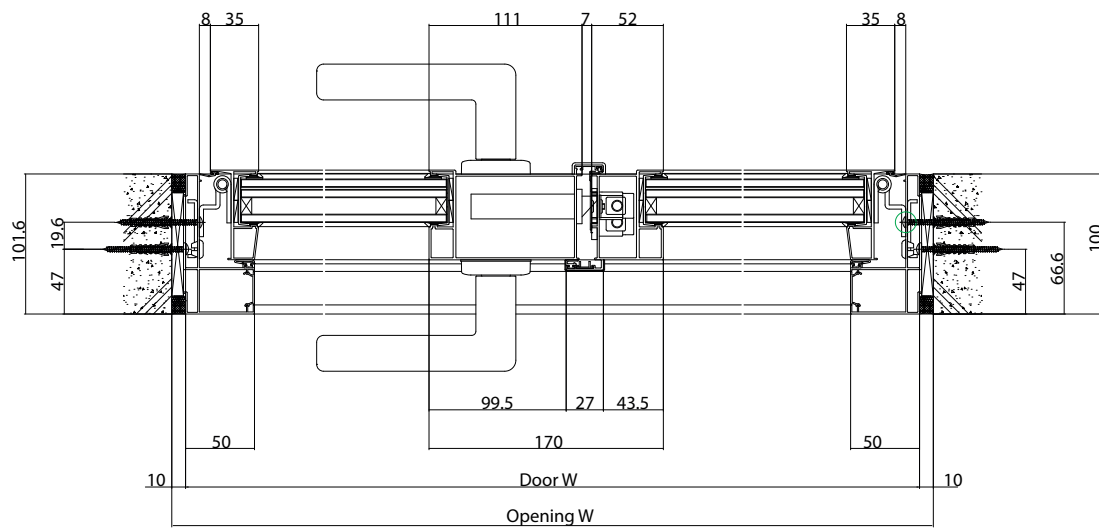
## OUT-SWING DOOR



Vertical section: Out-swing door



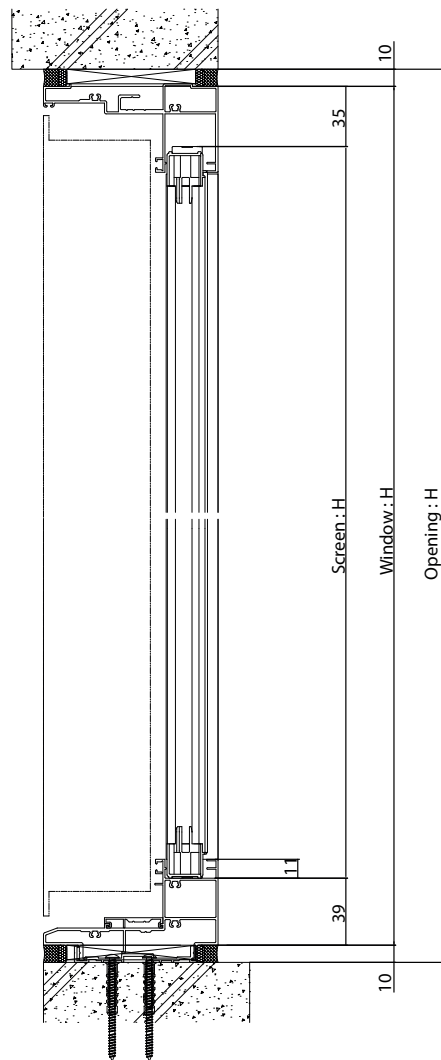
Horizontal section: Out-swing door (single)



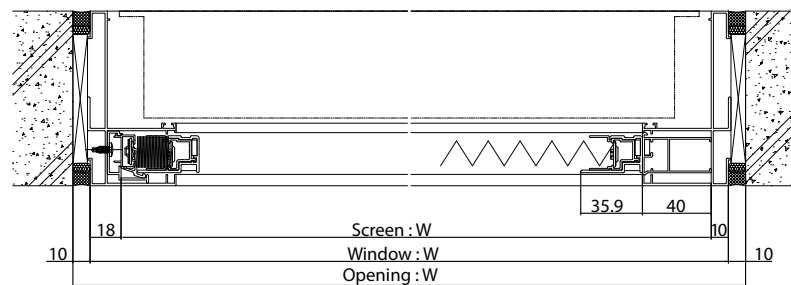
Horizontal section: Out-swing door (double)

## GRANTS

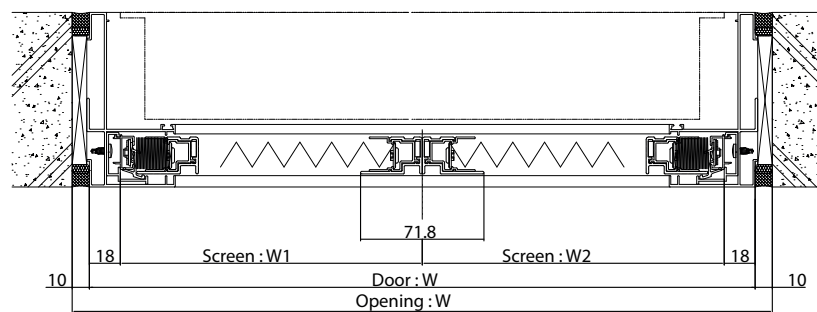
## INSECT SCREEN FOR SWING



Vertical section: Insect screen for swing



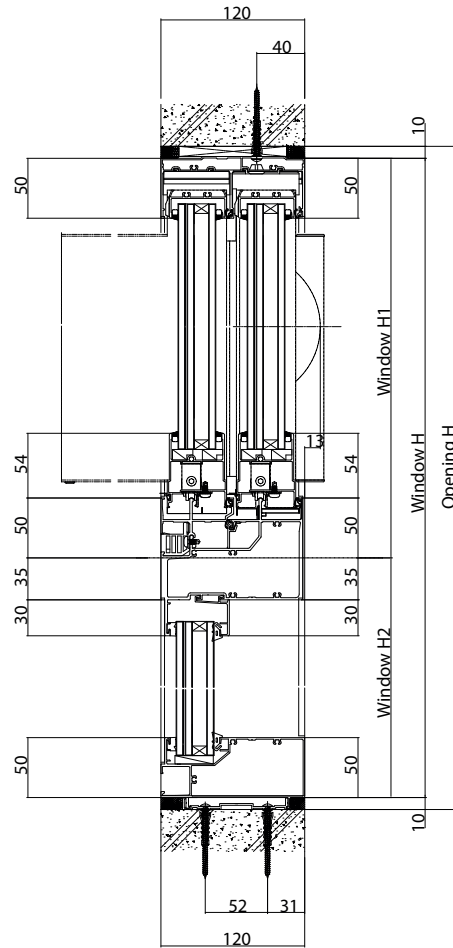
Horizontal section: Insect screen for swing (single)



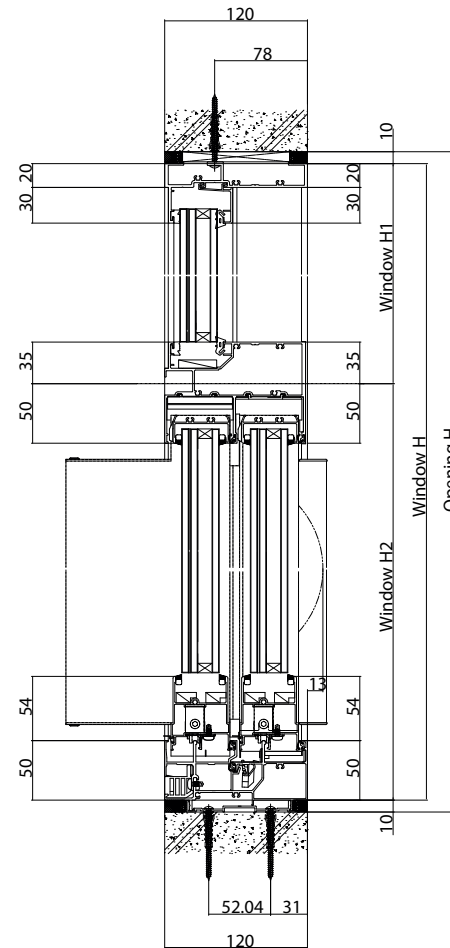
Horizontal section: Insect screen for swing (double)

# GRANTS

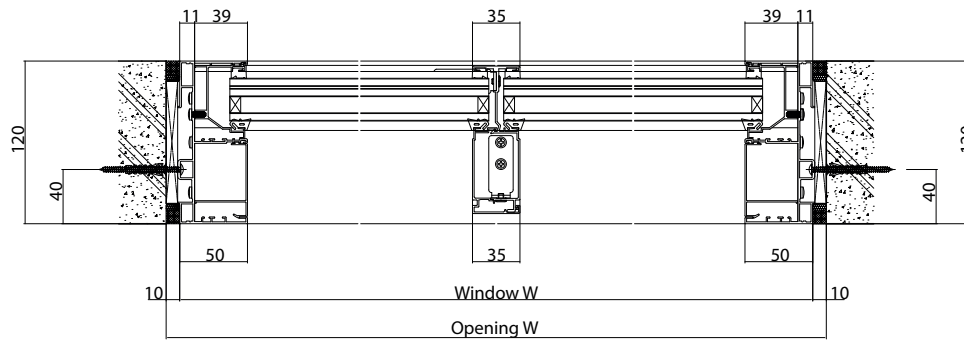
## COMBINATION WINDOW



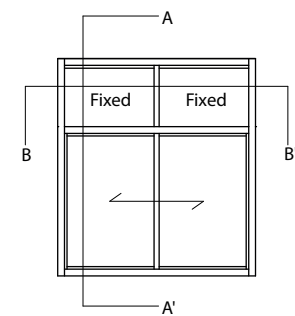
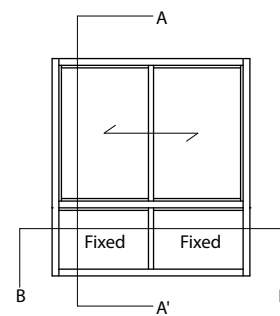
Vertical section: Sliding/Fixed A-A'



Vertical section: Fixed/Sliding A-A'

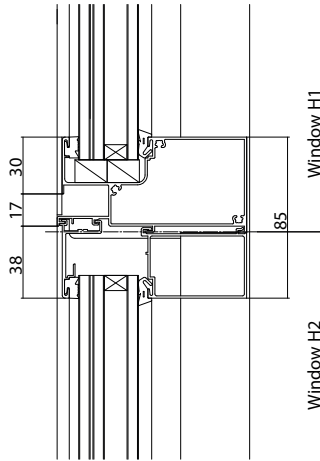


Horizontal section: Sliding/Fixed or Fixed/Sliding B-B'

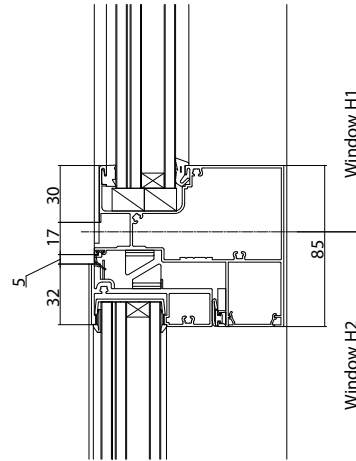


## GRANTS

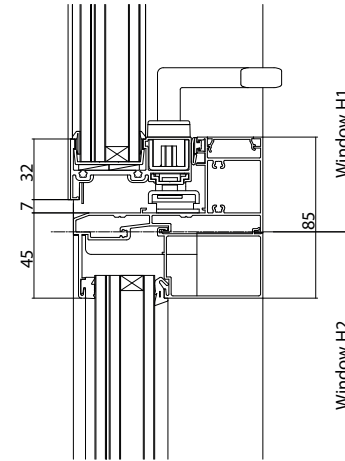
## TRANSOM



Vertical section:  
Fixed/Fixed transom



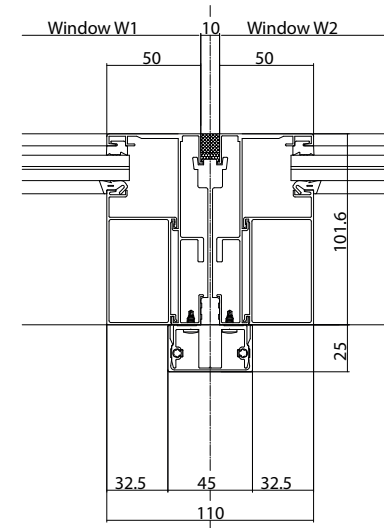
Vertical section:  
Fixed/Projection transom



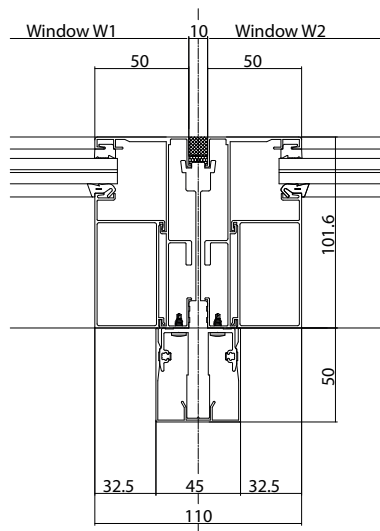
Vertical section:  
Projection/Fixed transom

# GRANTS

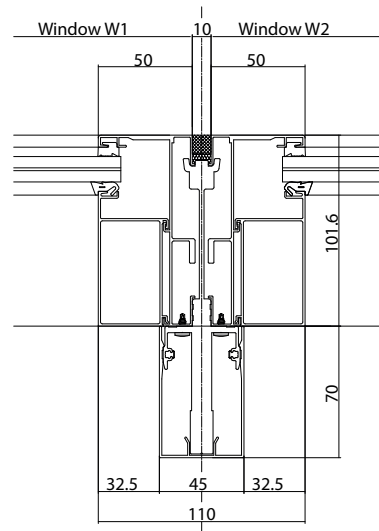
## MULLION



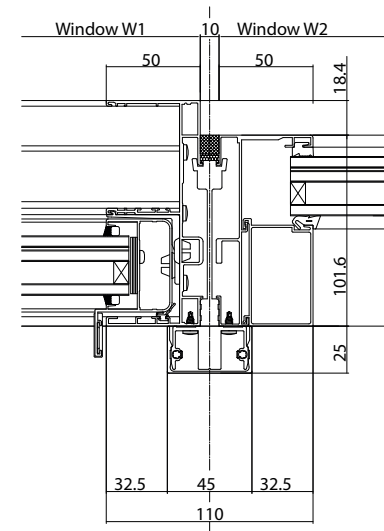
Mullion type A



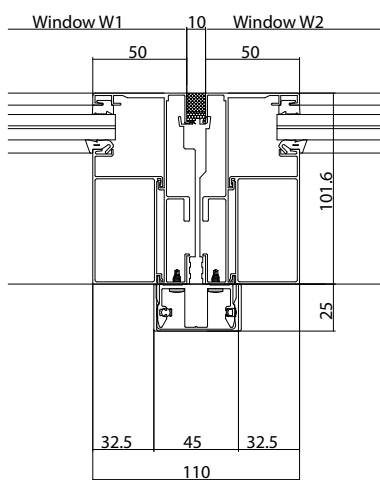
Mullion type B



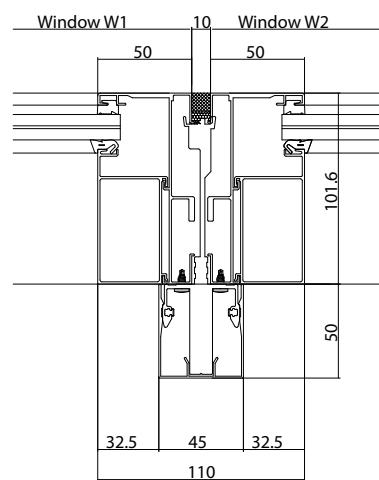
Mullion type C



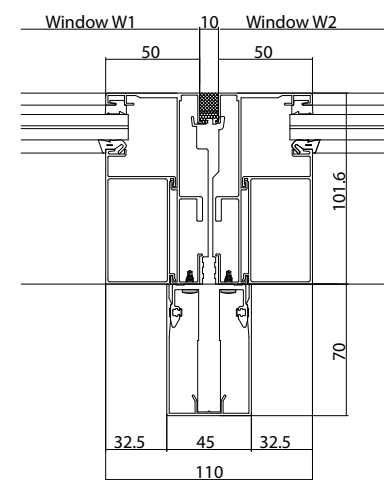
Mullion type A with sliding window



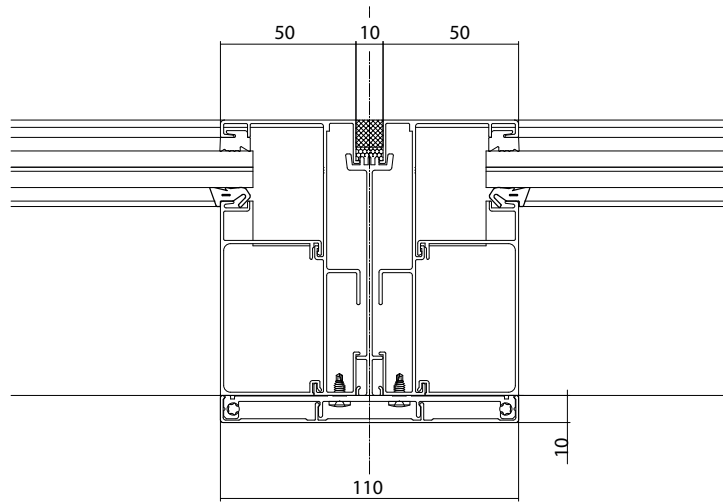
Mullion Adjust type A



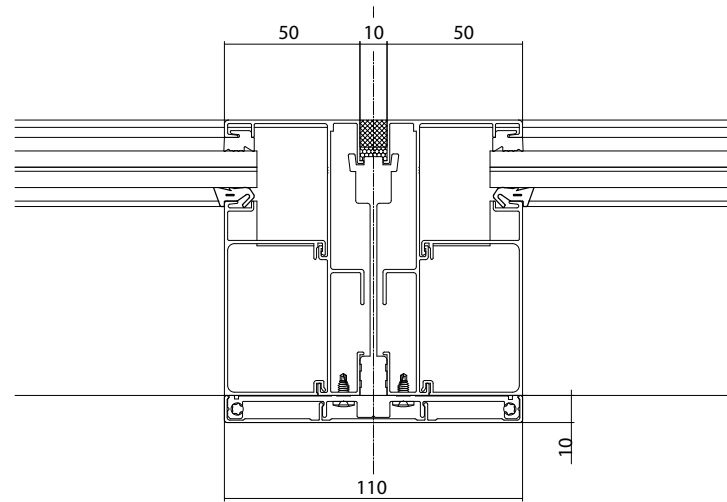
Mullion Adjust type B



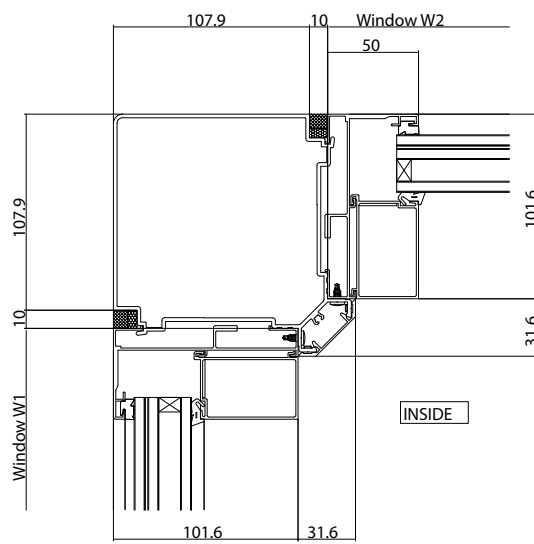
Mullion Adjust type C



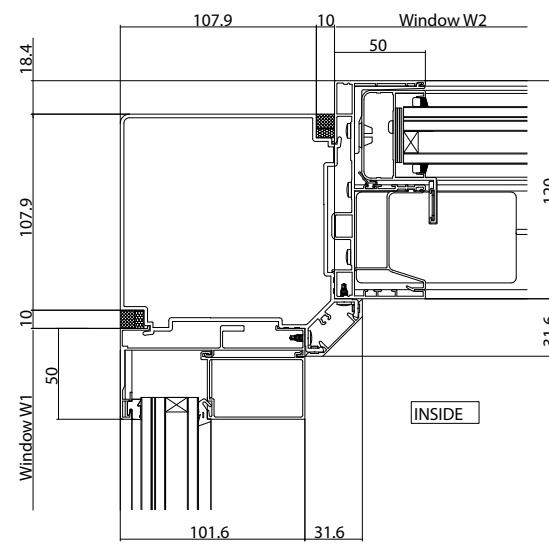
Mullion 180° Flat A



Mullion 180° Flat B



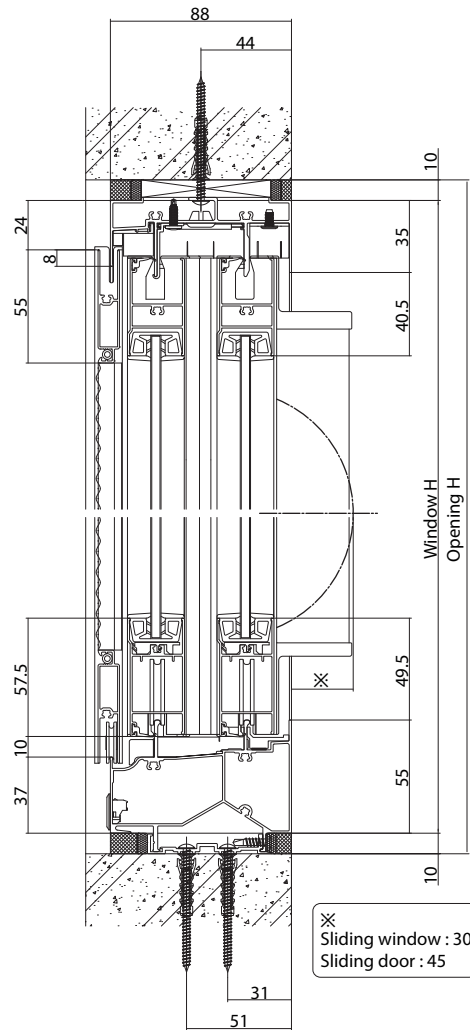
Corner mullion



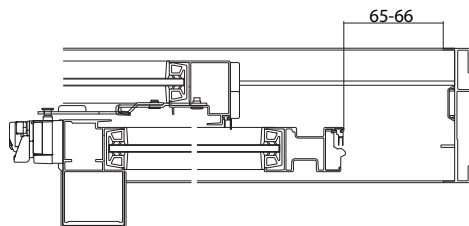
Corner mullion with sliding window

# ATIS PLUS

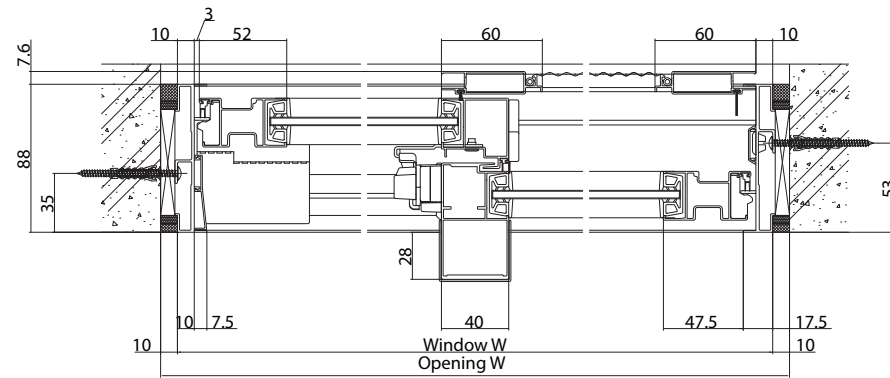
## SLIDING (2P2T, 4P2T) WITH OUTSIDE INSECT SCREEN



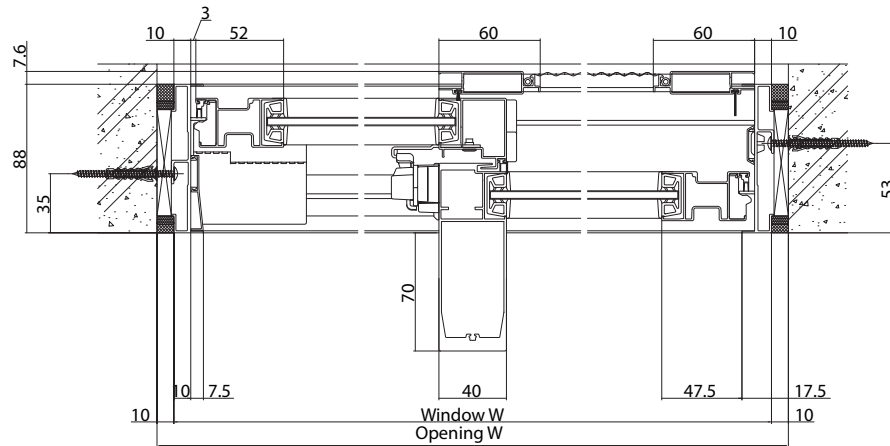
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
with TL-X screen



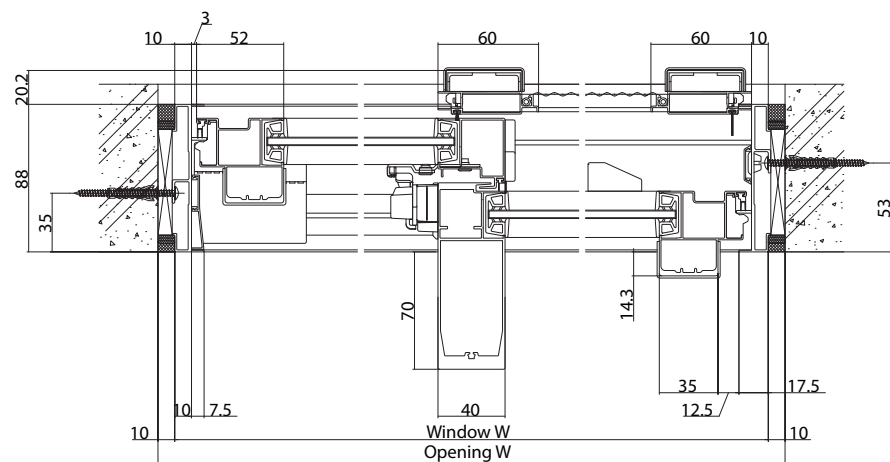
Options (limit arm) Jamb detail



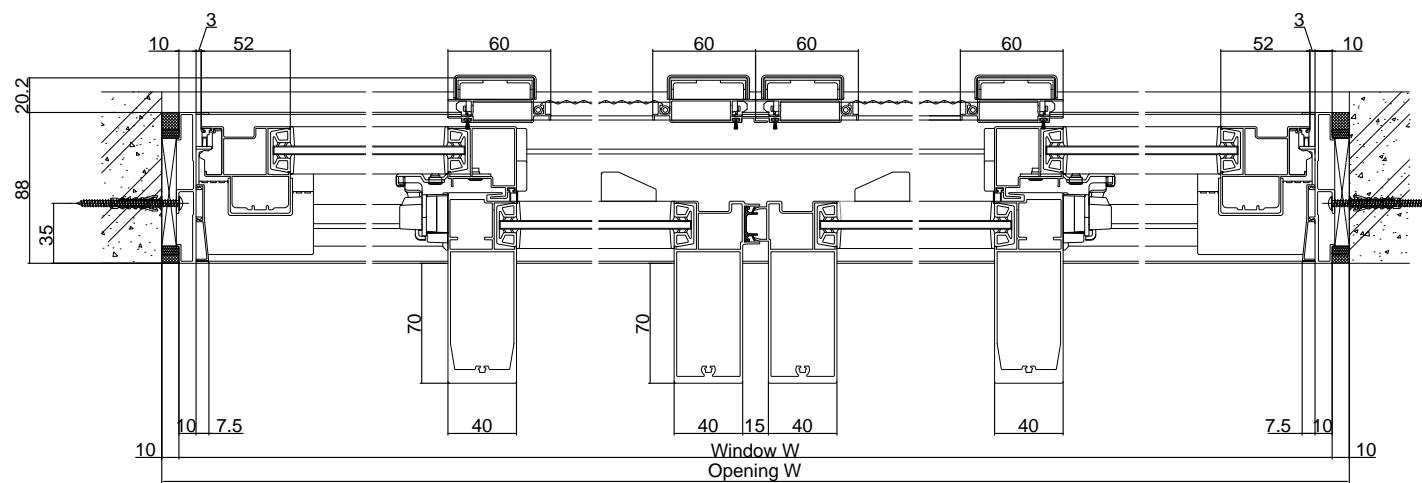
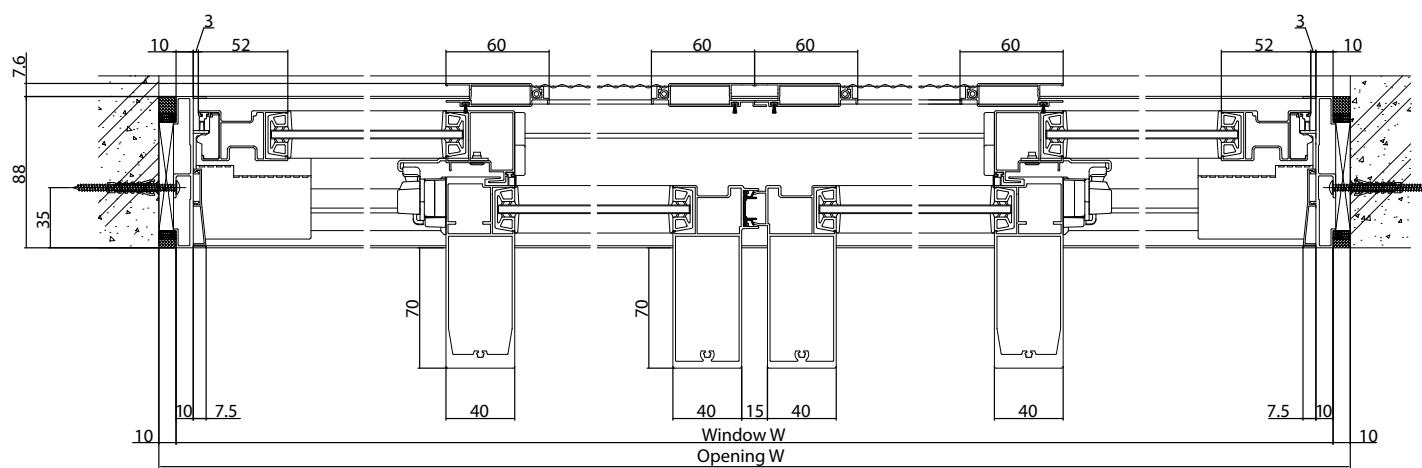
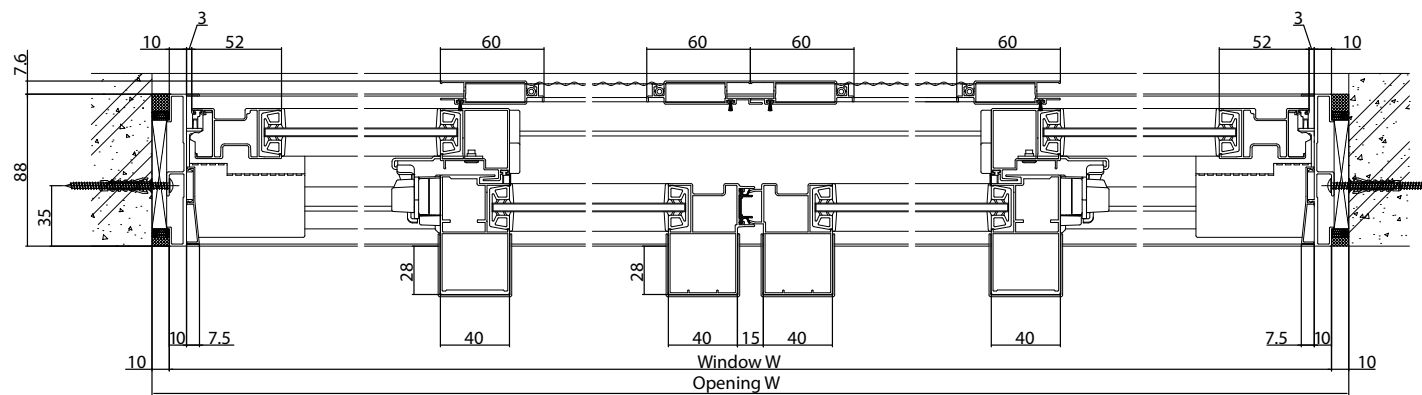
Horizontal section: Sliding window (2 panels on 2 tracks) with TL-X screen



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

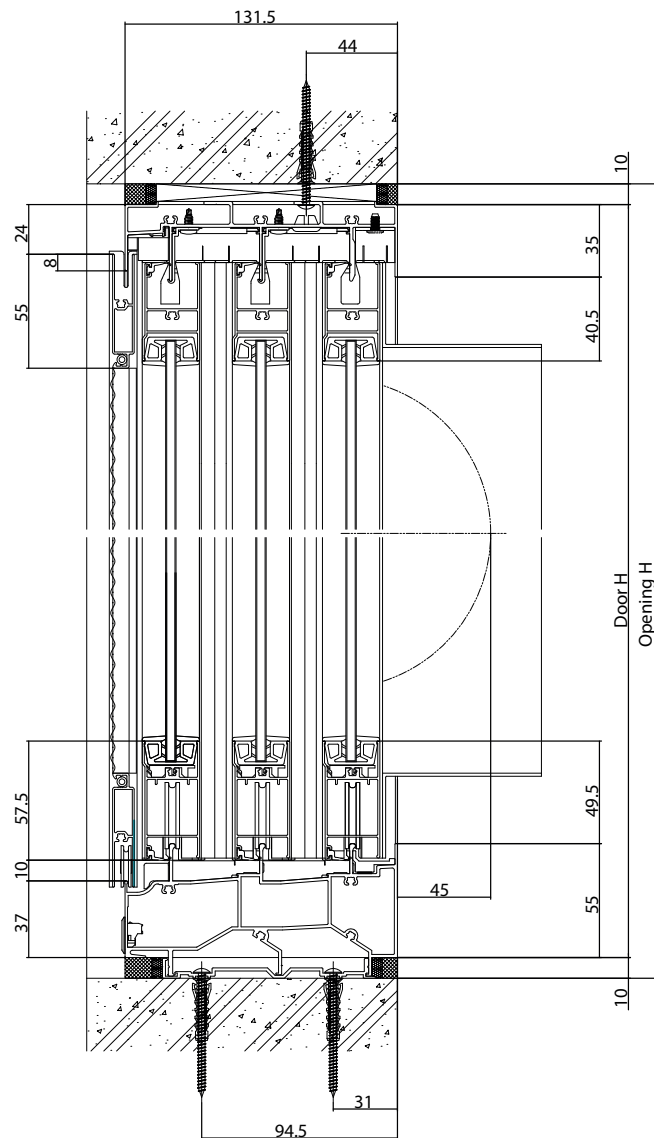


Horizontal section: Sliding door (2 panels on 2 tracks)  $H > 2100$  with TR-X screen

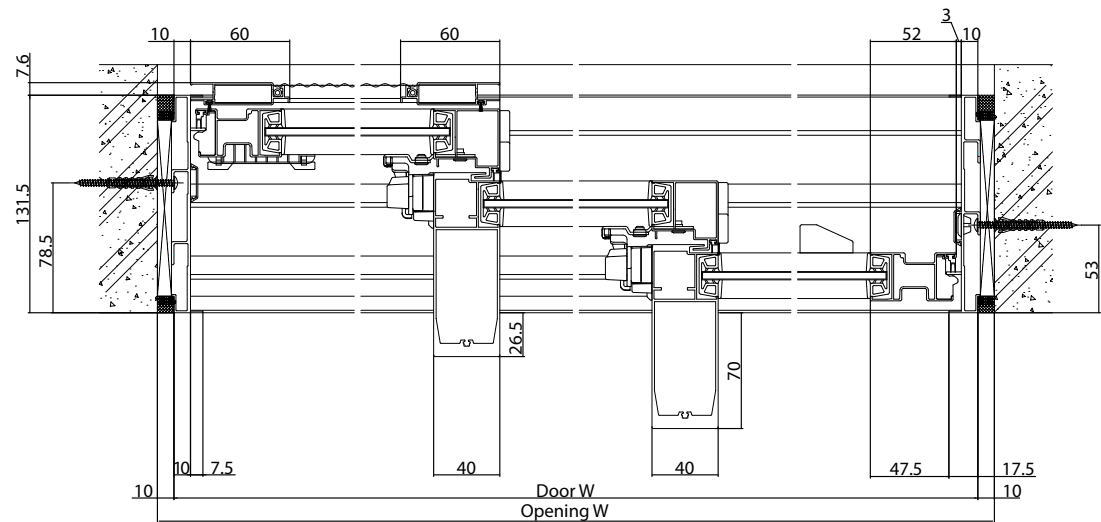


# ATIS PLUS

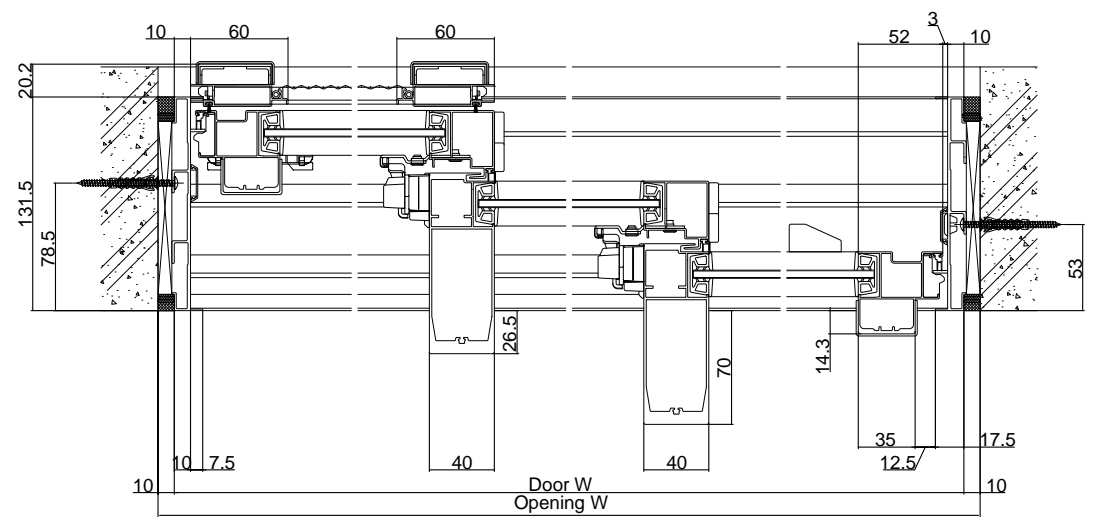
## SLIDING (3P3T) WITH OUTSIDE INSECT SCREEN



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



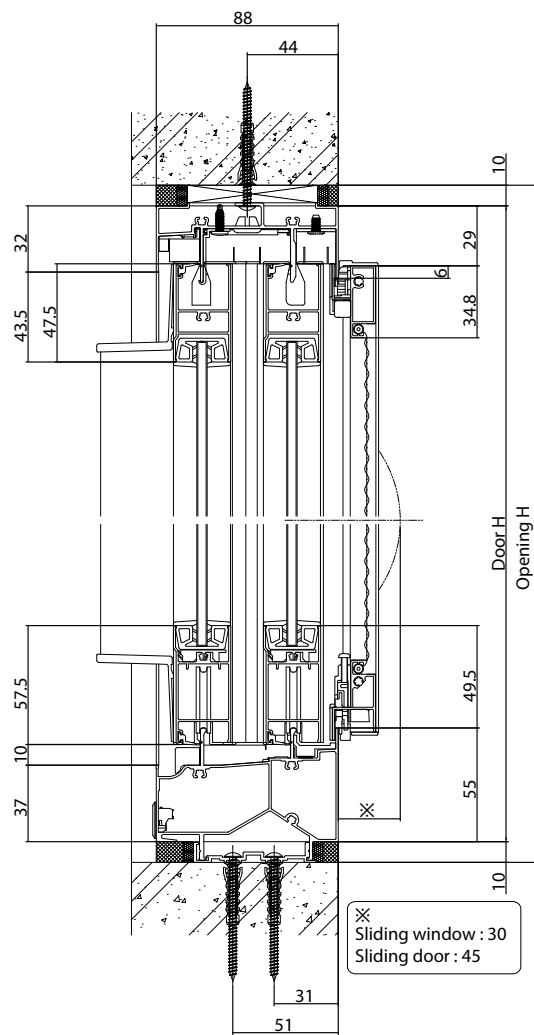
Horizontal section: Sliding door (3 panels on 3 tracks)  $H \leq 2100$  with TL-X screen



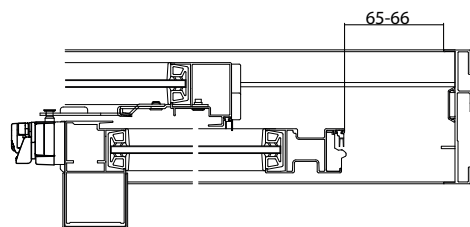
Horizontal section: Sliding door (3 panels on 3 tracks)  $H > 2100$  with TR-X screen

# ATIS PLUS

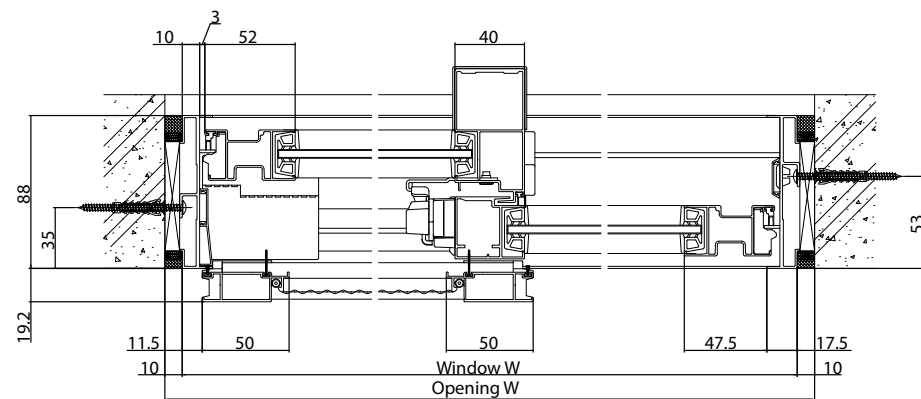
## SLIDING (2P2T, 4P2T) WITH INSIDE INSECT SCREEN



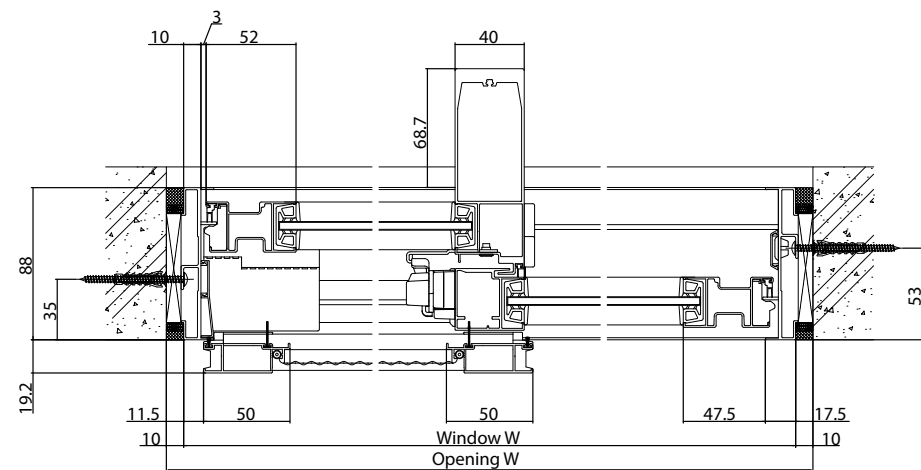
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
with TL-N screen



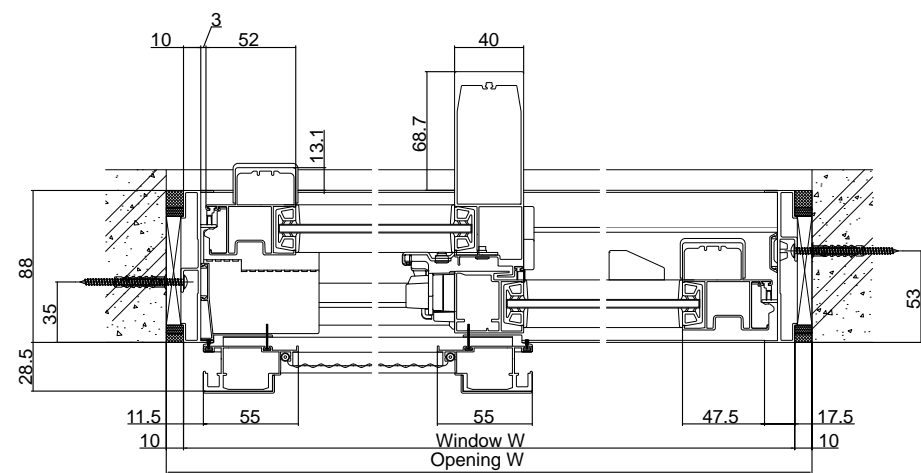
Options (limit arm) Jamb detail



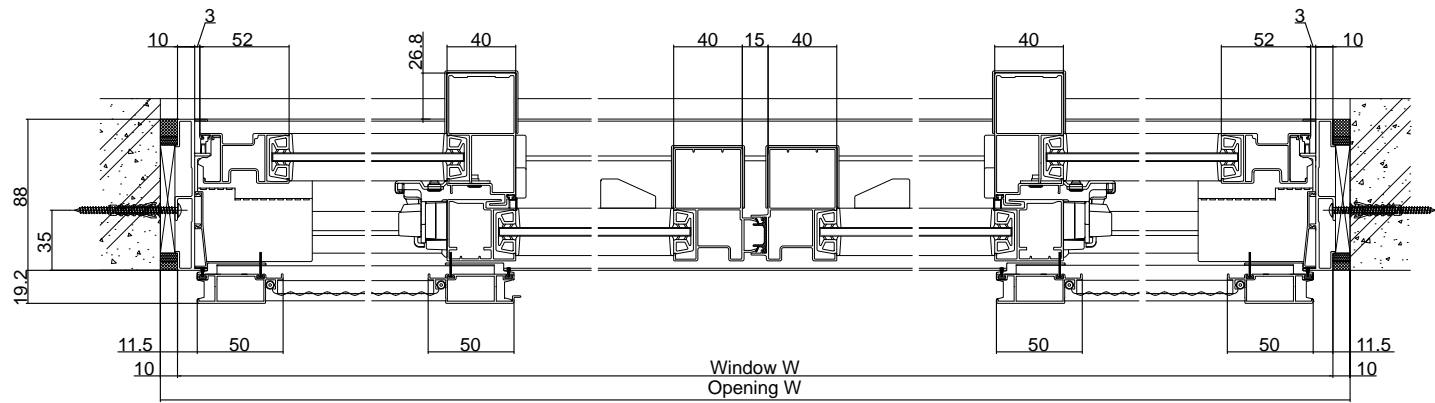
Horizontal section: Sliding window (2 panels on 2 tracks) with TL-N screen



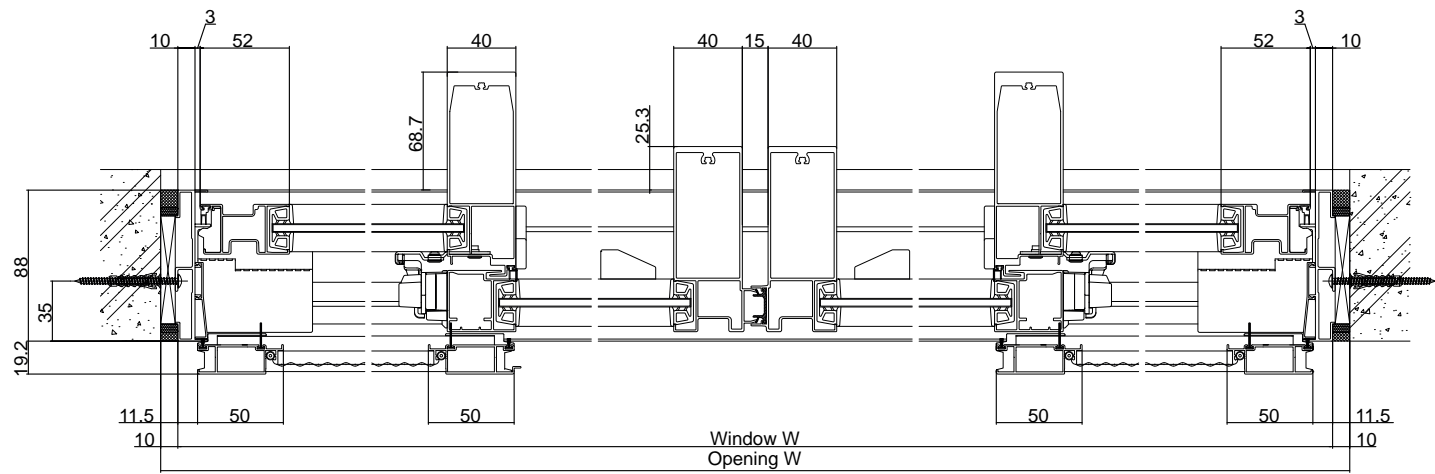
Horizontal section: Sliding door (2 panels on 2 tracks)  $H \leq 2100$  with TL-N screen



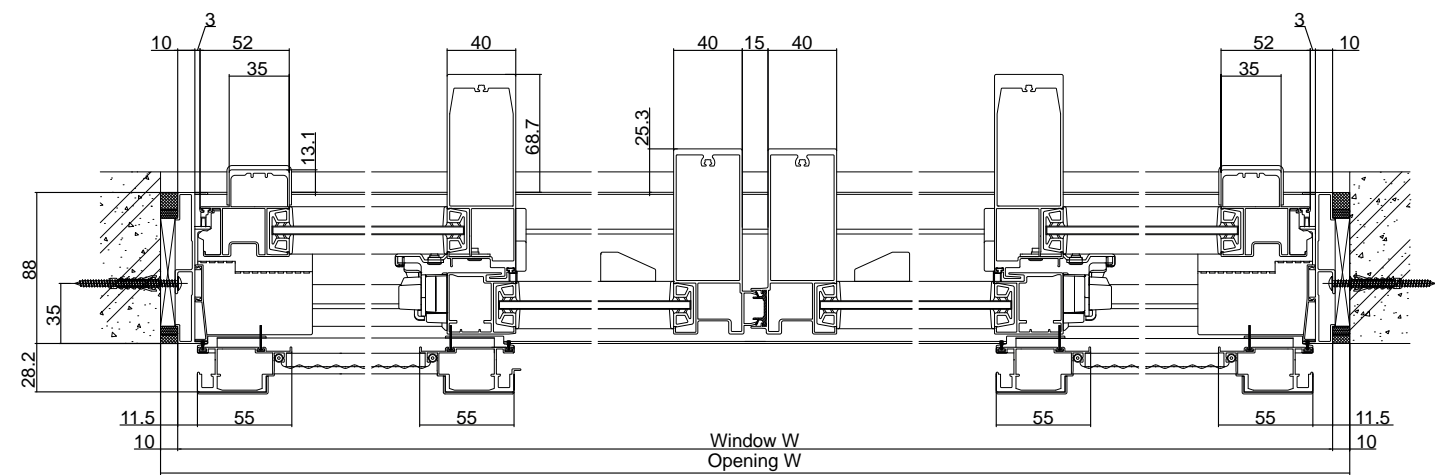
Horizontal section: Sliding door (2 panels on 2 tracks)  $H > 2100$  with TR-N screen



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



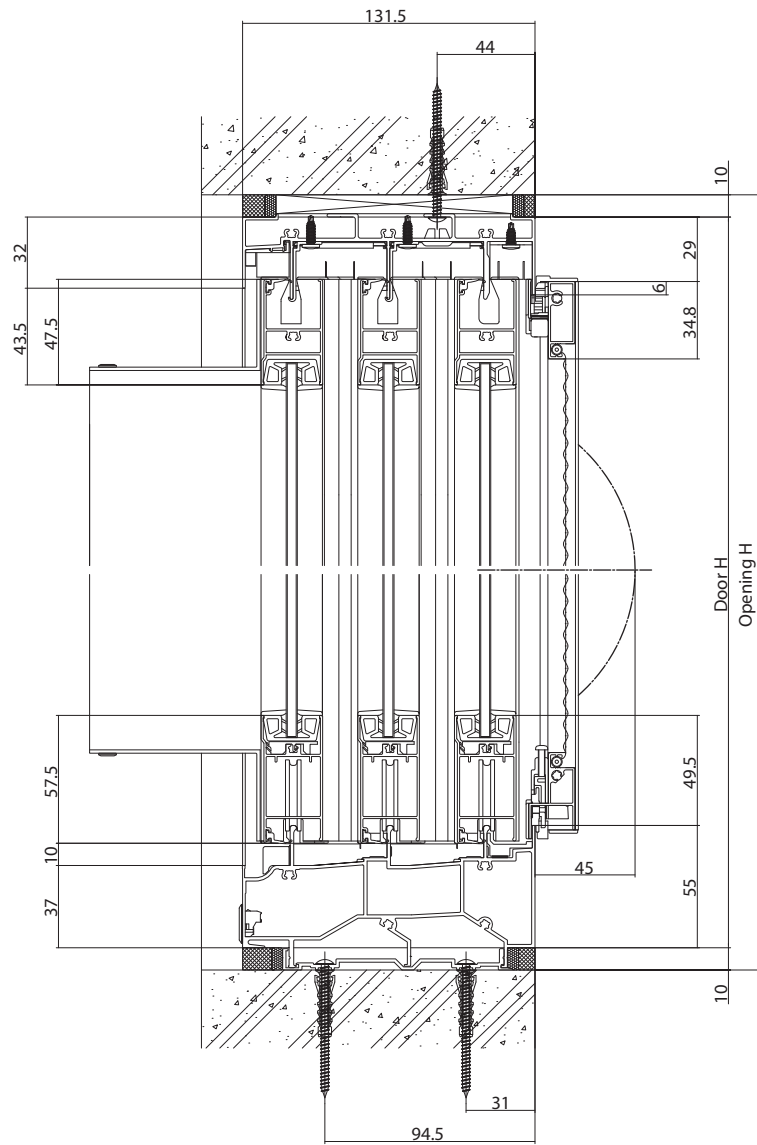
Horizontal section: Sliding door (4 panels on 2 tracks)  $H \leq 2100$  with TL-N screen



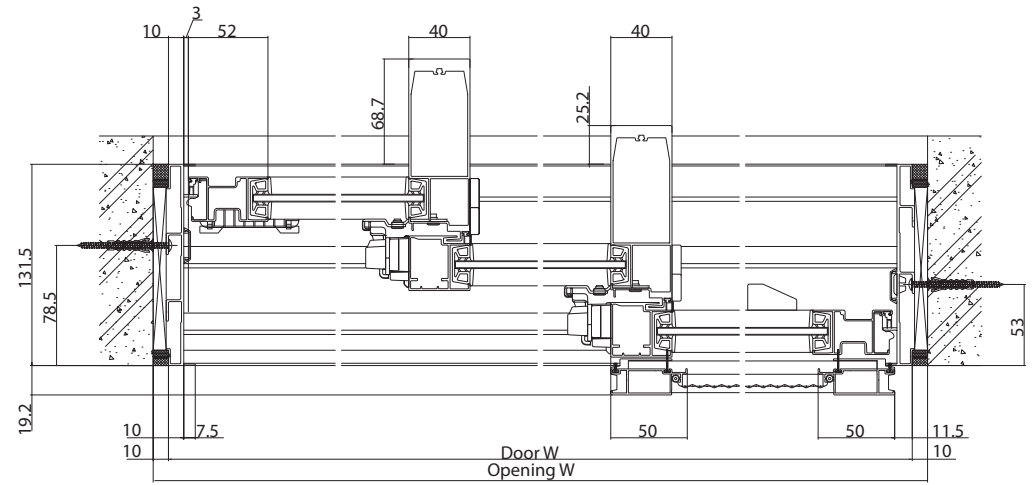
Horizontal section: Sliding door (4 panels on 2 tracks)  $H > 2100$  with TR-N screen

# ATIS PLUS

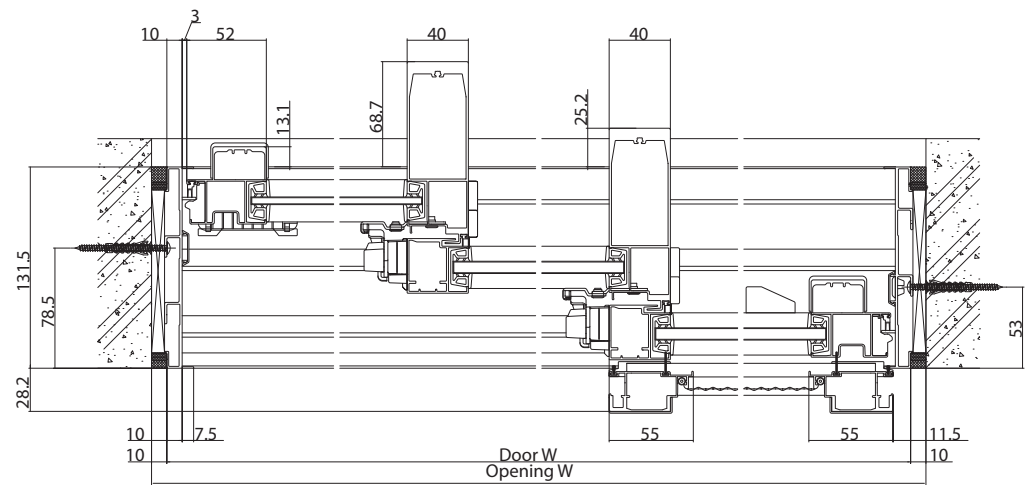
## SLIDING (3P3T) WITH INSIDE INSECT SCREEN



Vertical section: Sliding door (3 panels on 3 tracks) with TL-N screent



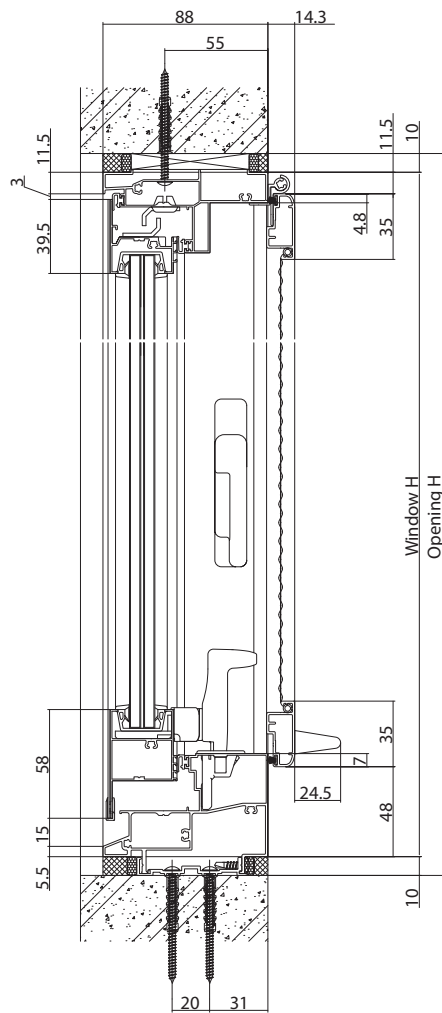
Horizontal section: Sliding door (3 panels on 3 tracks)  $H \leq 2100$  with TL-N screen



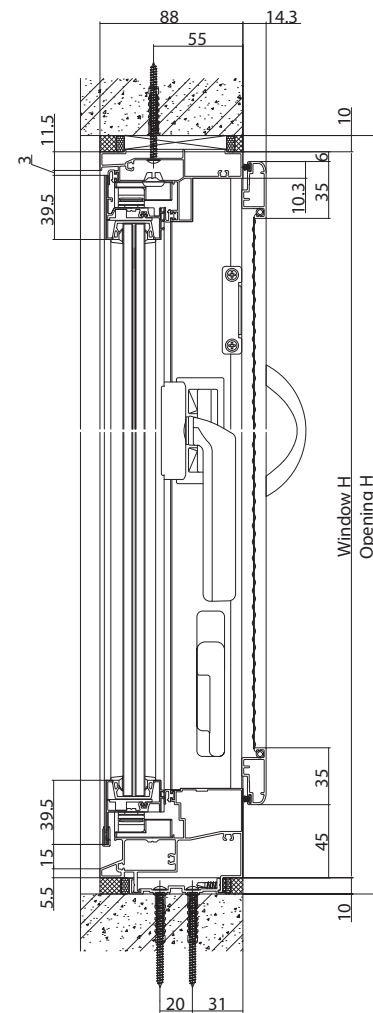
Horizontal section: Sliding door (3 panels on 3 tracks)  $H > 2100$  with TR-N screen

# ATIS PLUS

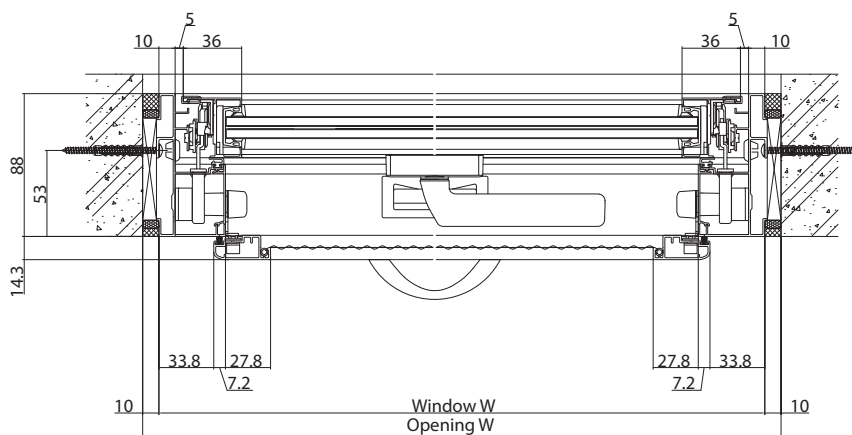
## AWNING, CASEMENT



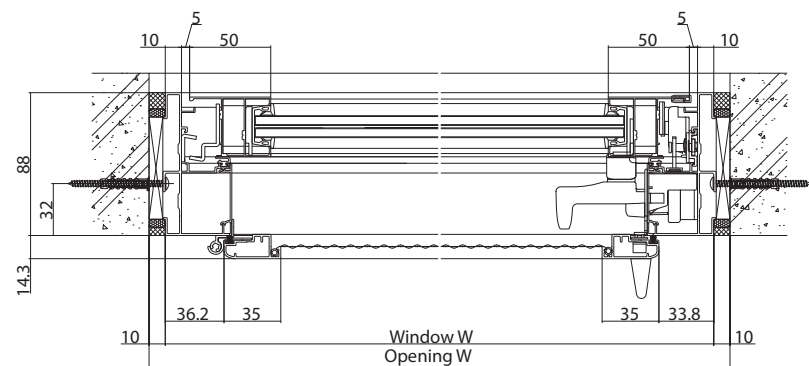
Vertical section: Awning window with screen



Vertical section: Casement window with screen



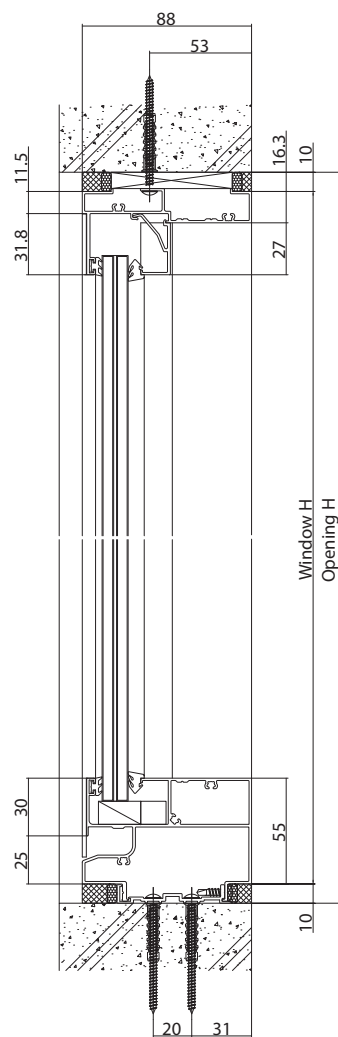
Horizontal section: Awning window with screen (Multi-lock)



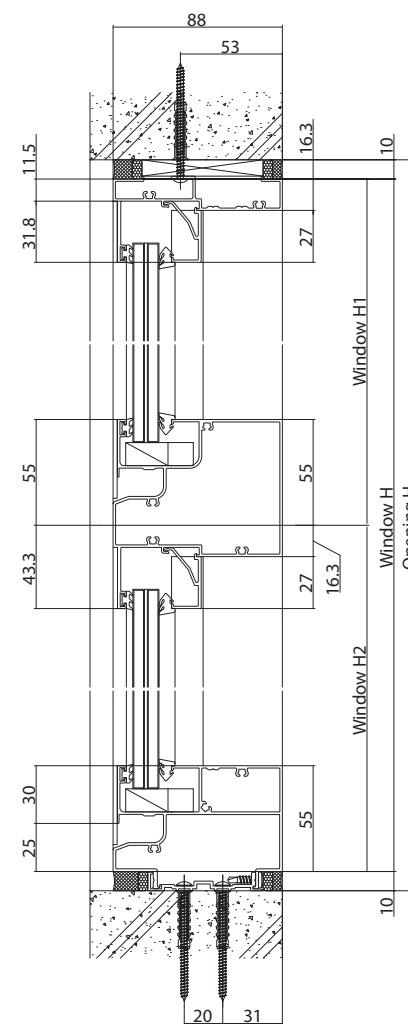
Horizontal section: Casement window with screen (Multi-lock)

# ATIS PLUS

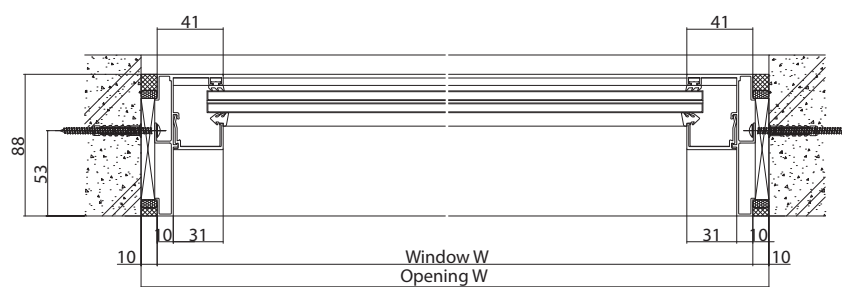
## FIXED WINDOW



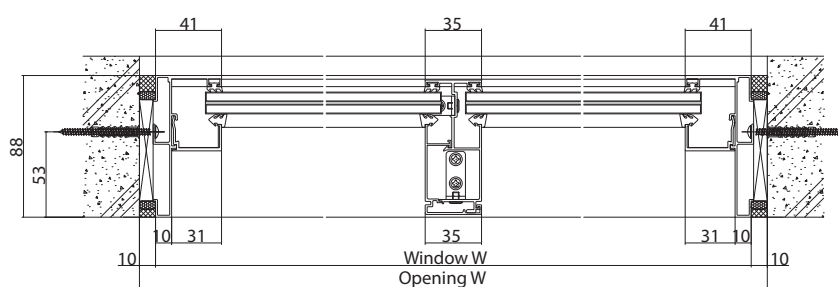
Vertical section: Single fixed window



Vertical section: Fixed window with transom



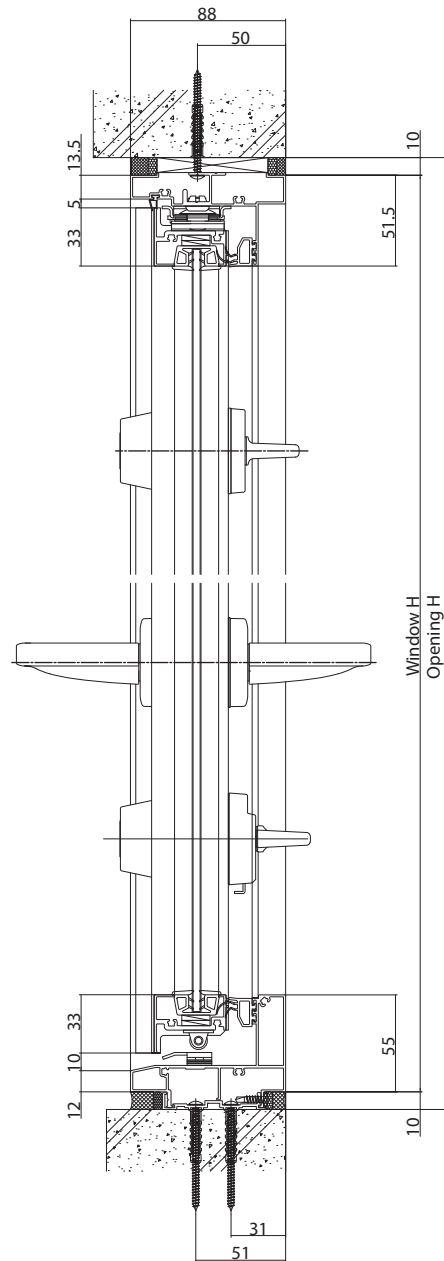
Horizontal section: Single fixed window



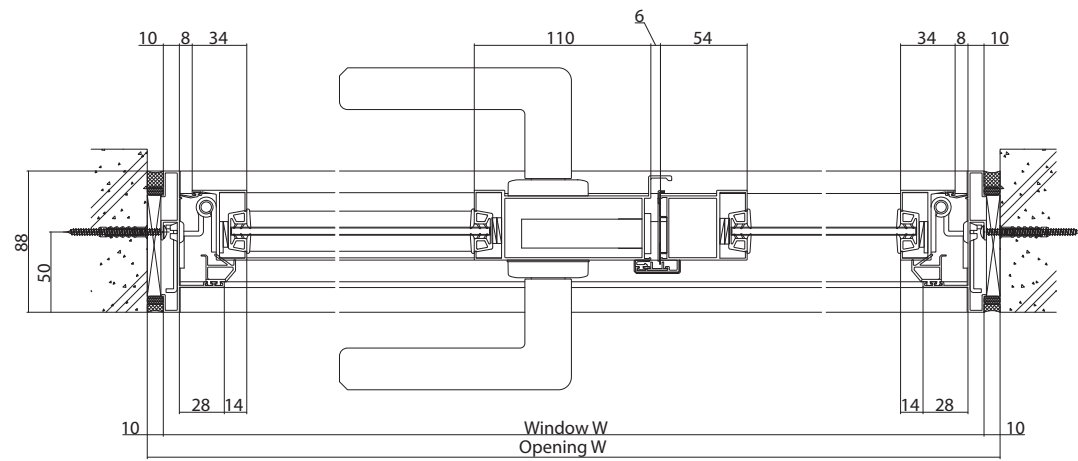
Horizontal section: Fixed window with mullion

# ATIS PLUS

## SINGLE OUT-SWING DOOR



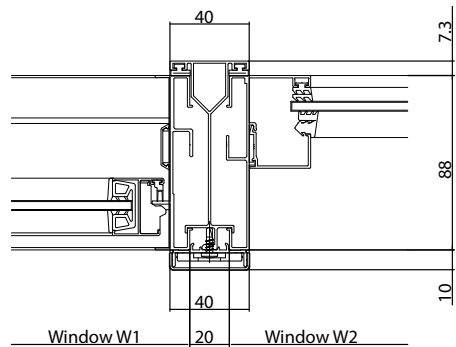
Vertical section: Single Out-swing door



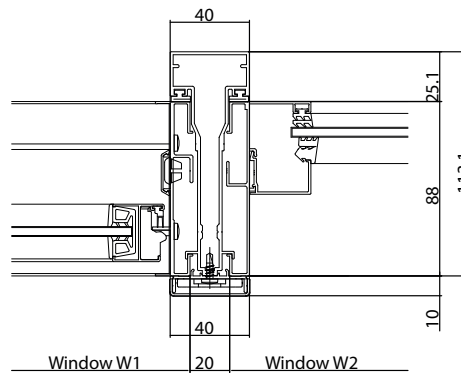
Horizontal section: Single Out-swing door

# ATIS PLUS

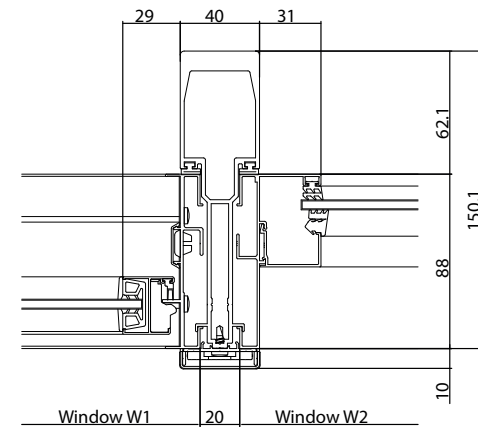
## TRANSOM & MULLION



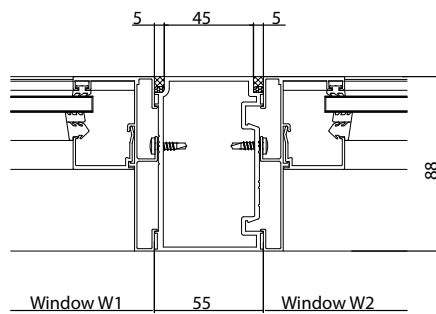
Mullion 180 Type A



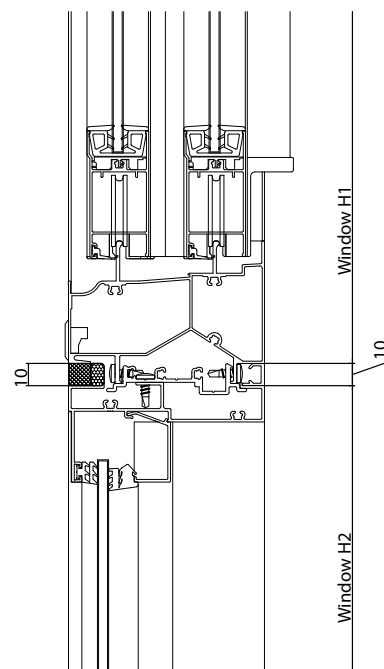
Mullion 180 Type B



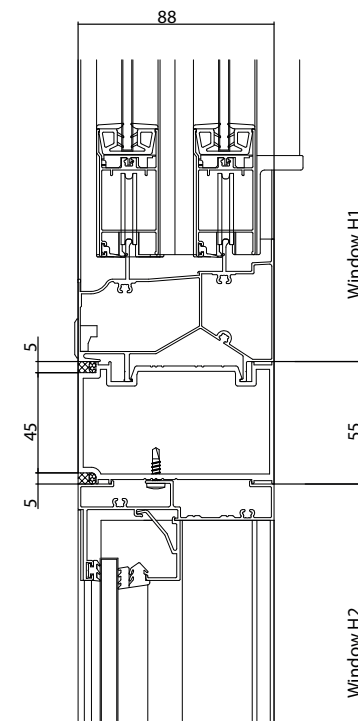
Mullion 180 Type C



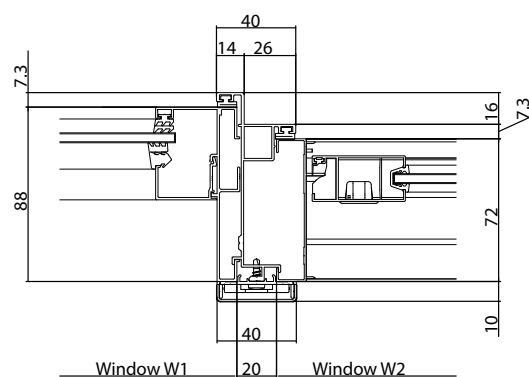
Reinforcement Mullion 180



Transom Type A (88 mm)



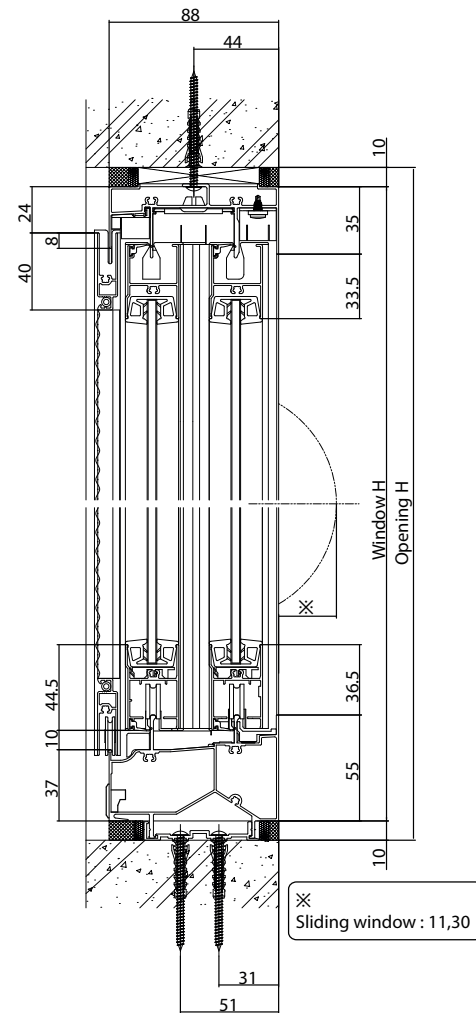
Reinforcement Transom



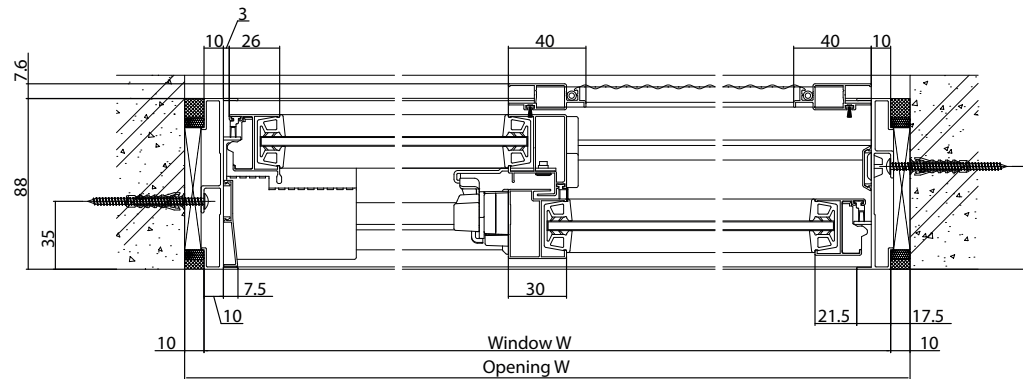
Mullion 180 for WE combination

# ATIS

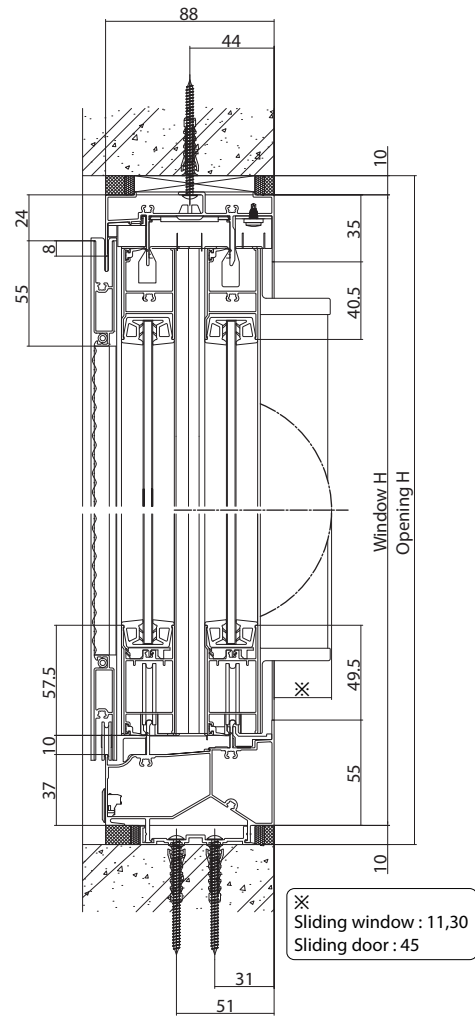
## SLIDING (2P2T, 4P2T) WITH OUTSIDE INSECT SCREEN



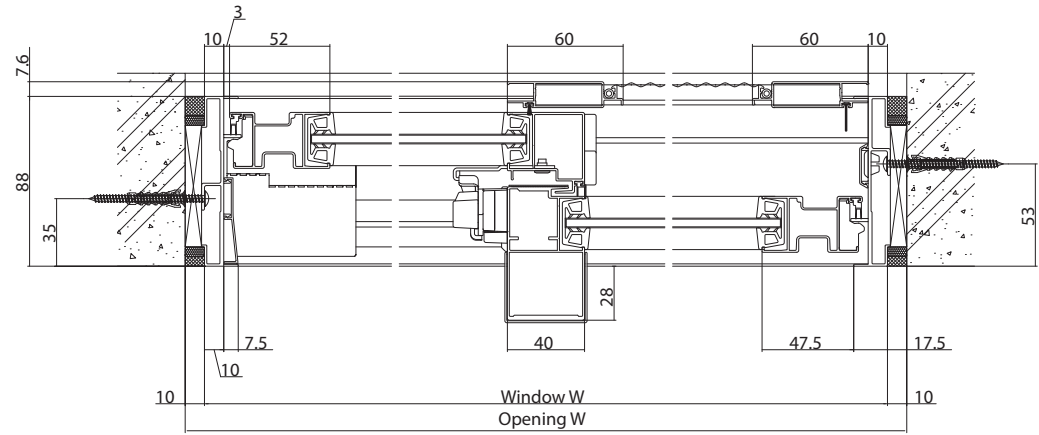
Vertical section: Sliding (2 panels on 2 tracks) Type A with TS-X screen



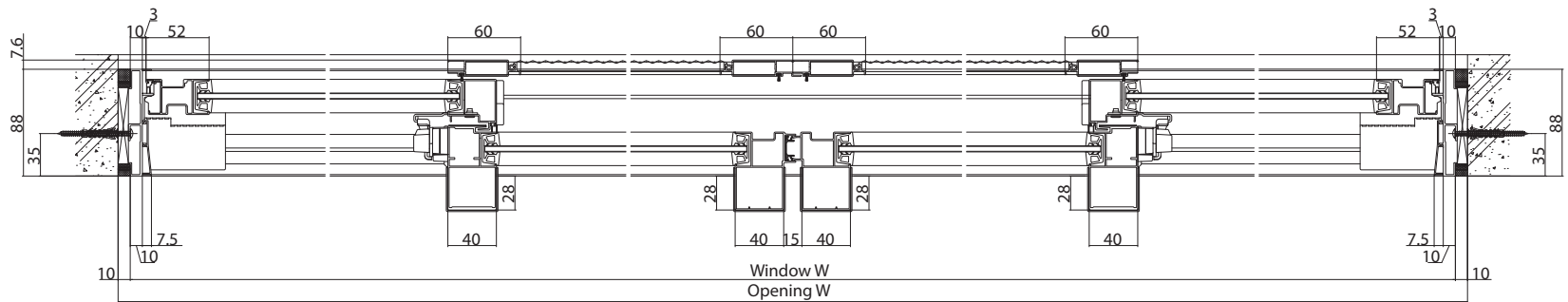
Horizontal section: Sliding (2 panels on 2 tracks) Type A with TS-X screen



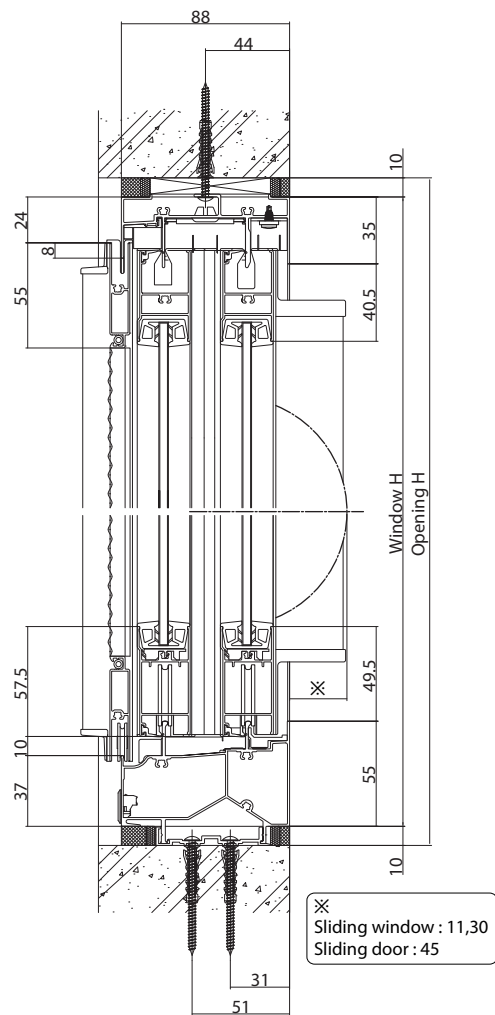
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
Type B with TL-X screen



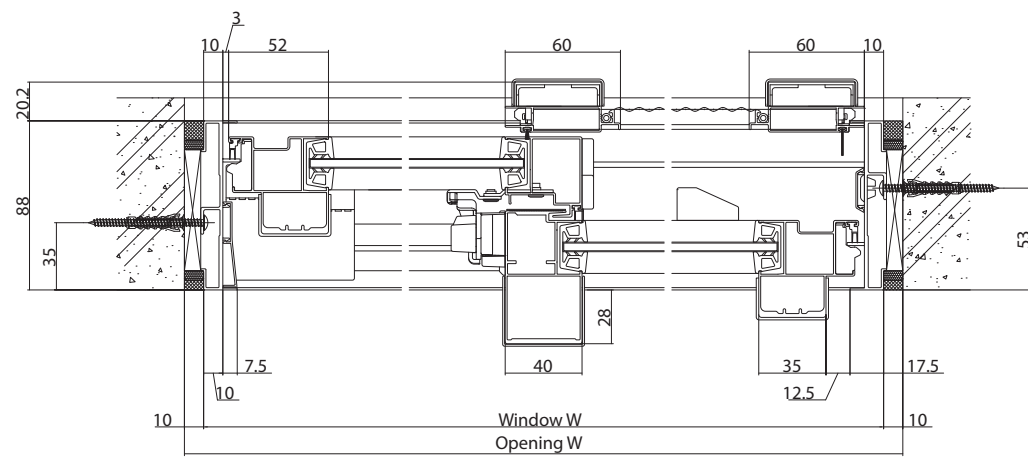
Horizontal section: Sliding (2 panels on 2 tracks) Type B with TL-X screen



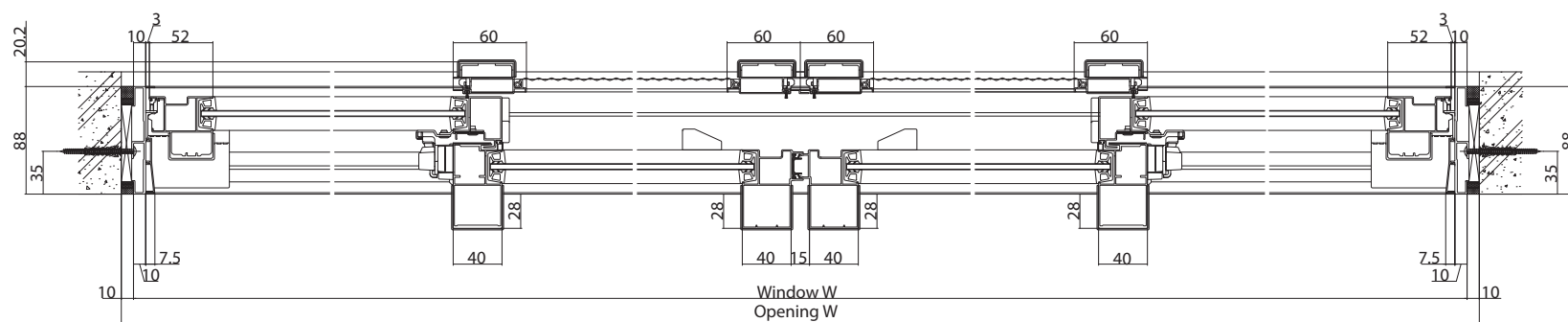
Horizontal section: Sliding (4 panels on 2 tracks) Type B with TL-X screen



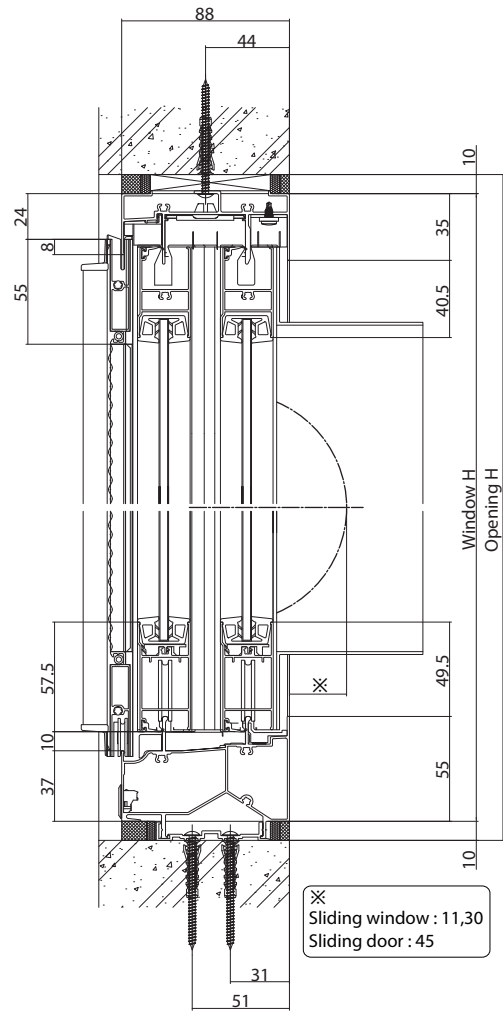
Vertical section: Sliding  
(2 and 4 panels on 2 tracks)  
Type C with TR-X screen



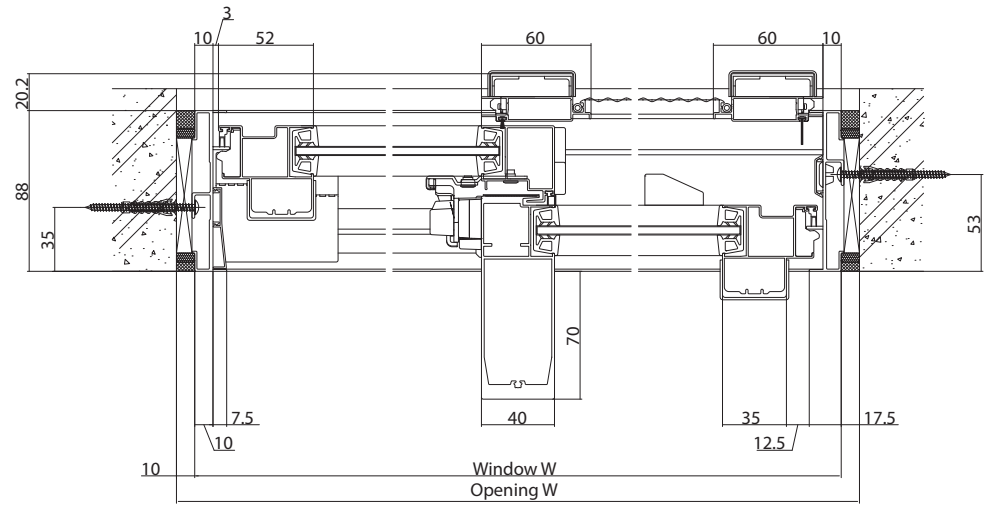
Horizontal section: Sliding (2 panels on 2 tracks) Type C with TR-X screen



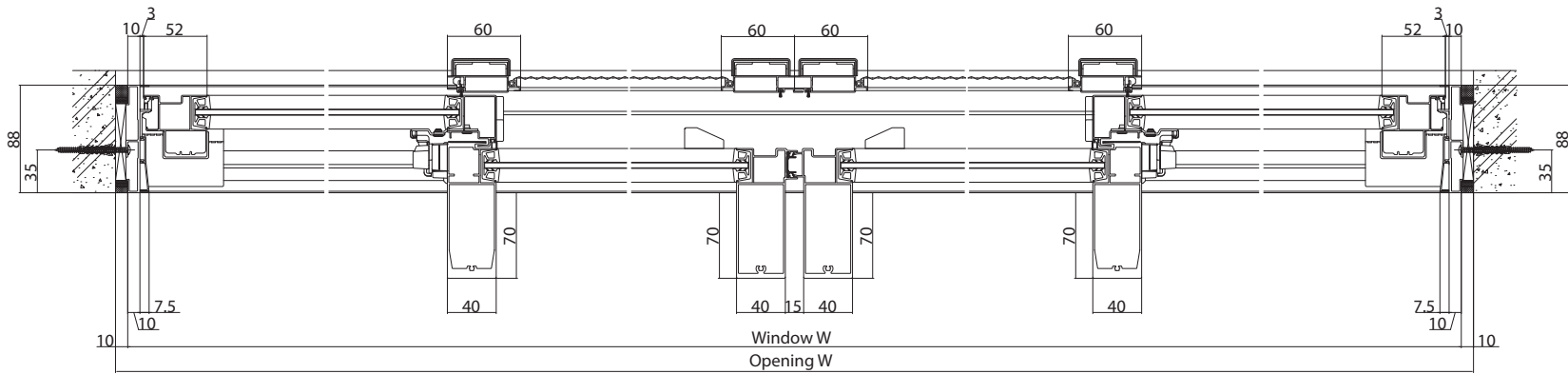
Horizontal section: Sliding (4 panels on 2 tracks) Type C with TR-X screen



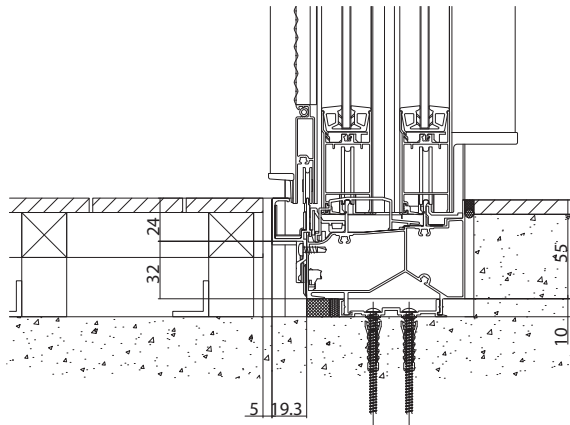
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type D with TR-X screen



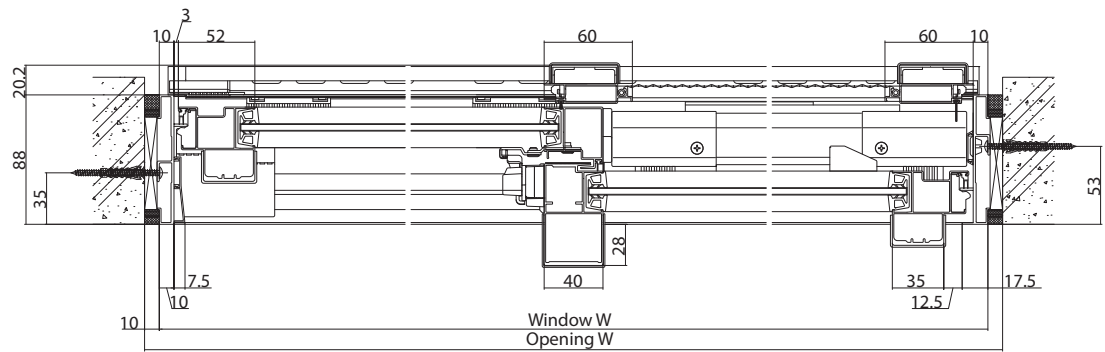
Horizontal section: Sliding (2 panels on 2 tracks) Type D with TR-X screen



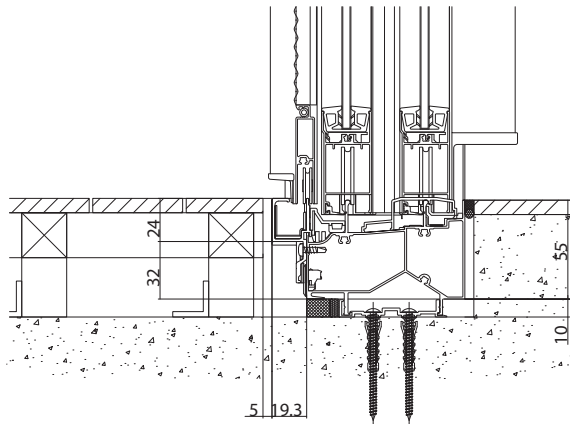
Horizontal section: Sliding (4 panels on 2 tracks) Type D with TR-X screen



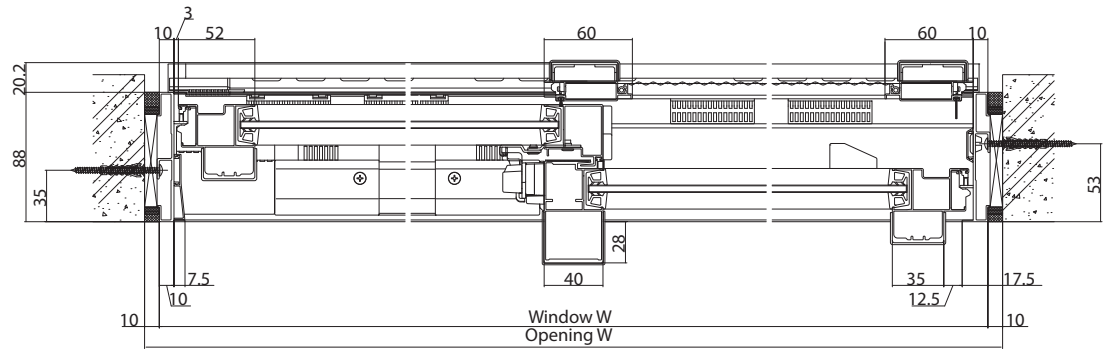
Vertical section: 2 and 4 panels  
Barrier flat sill Outside option with TR-X screen



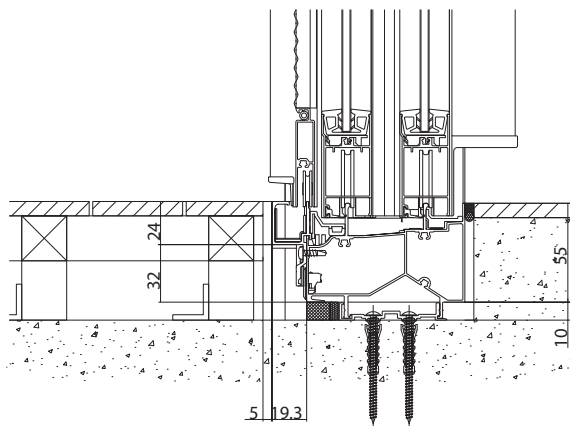
Horizontal section: 2 panels Barrier flat sill Outside option with TR-X screen



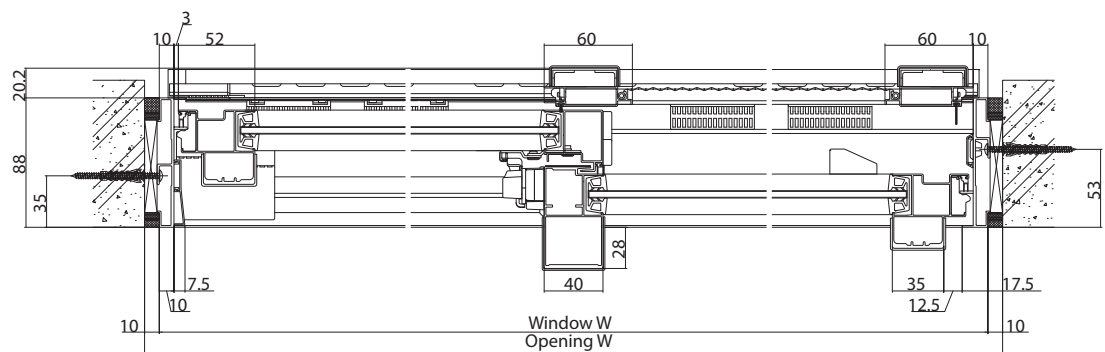
Vertical section: 2 and 4 panels  
Barrier flat sill Inside option with TR-X screen



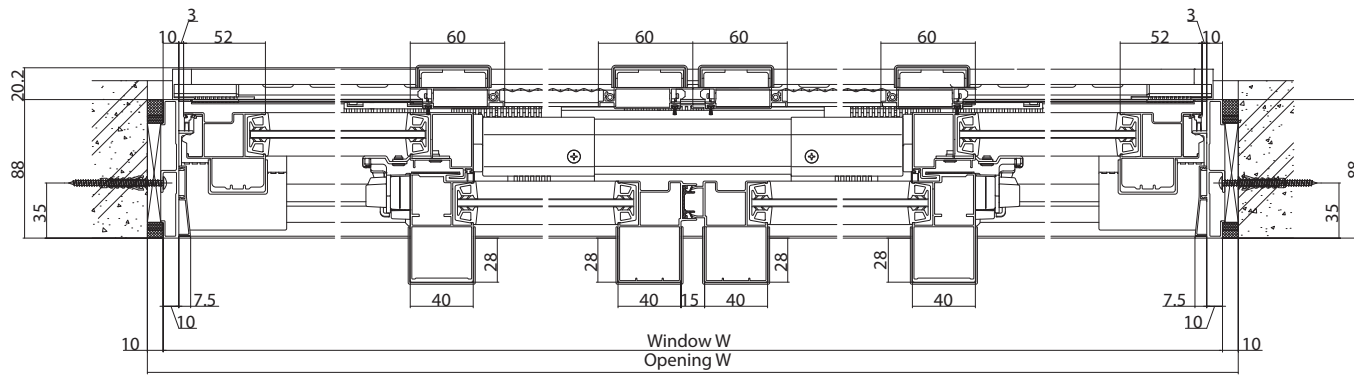
Horizontal section: 2 panels Barrier flat sill Inside option with TR-X screen



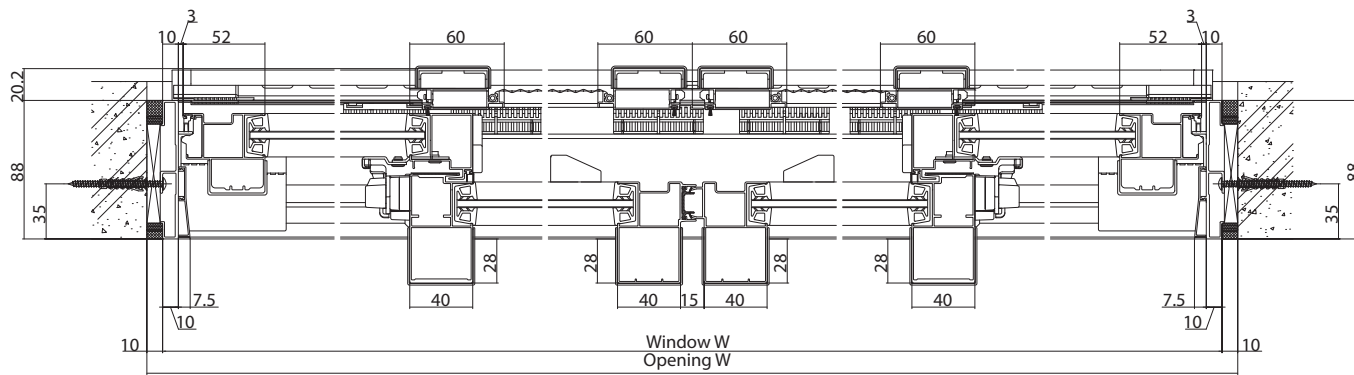
Vertical section: 2 and 4 panels  
Outside screen rail option with TR-X screen



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



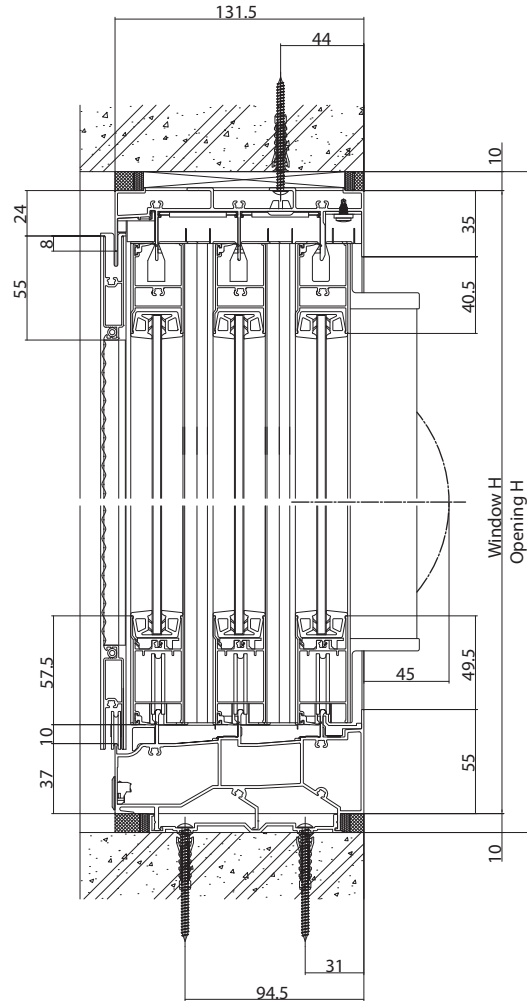
Horizontal section: 4 panels Barrier flat sill Outside option with TR-X screen



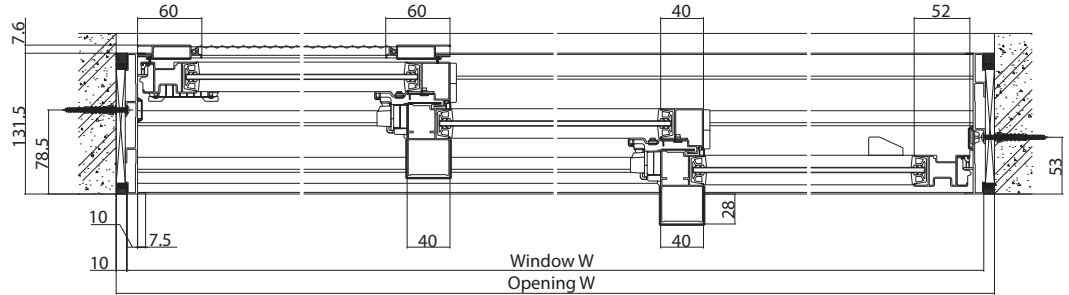
Horizontal section: 4 panels Outside screen rail option with TR-X screen

# ATIS

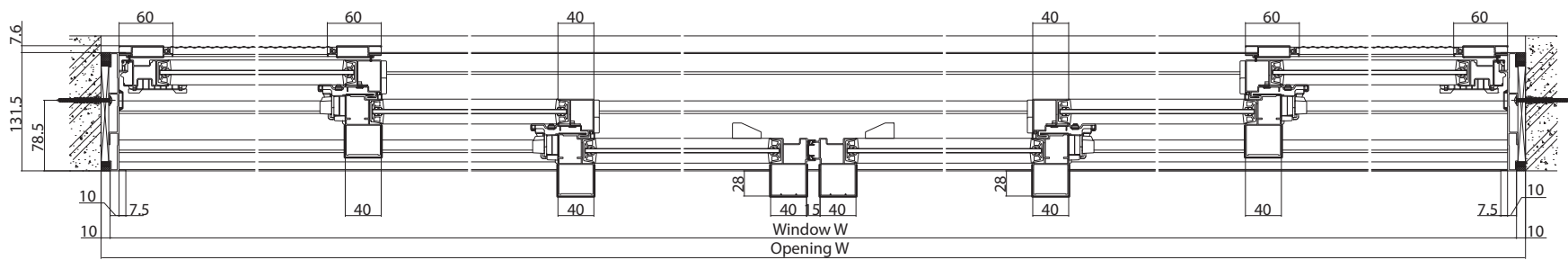
## SLIDING (3P3T, 6P3T) WITH OUTSIDE INSECT SCREEN



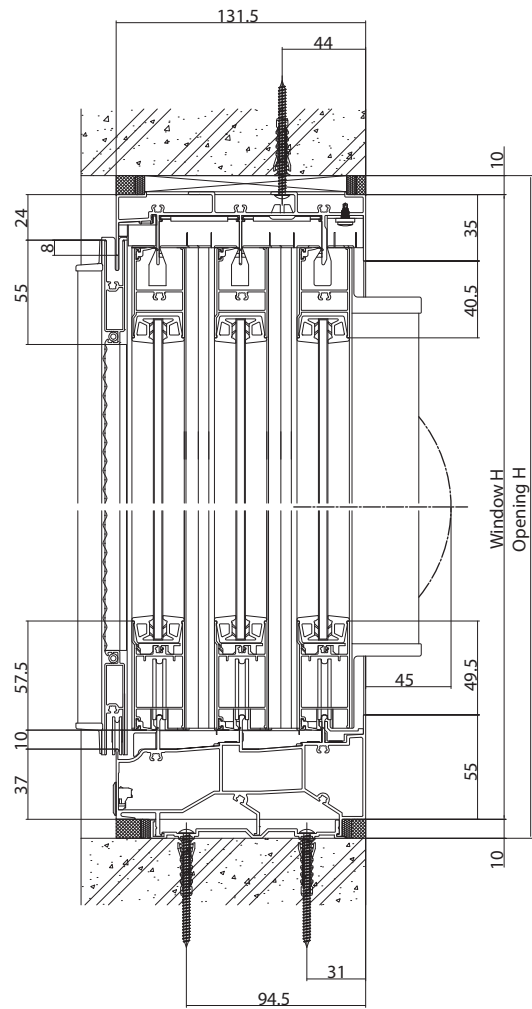
Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type B with TL-X screen



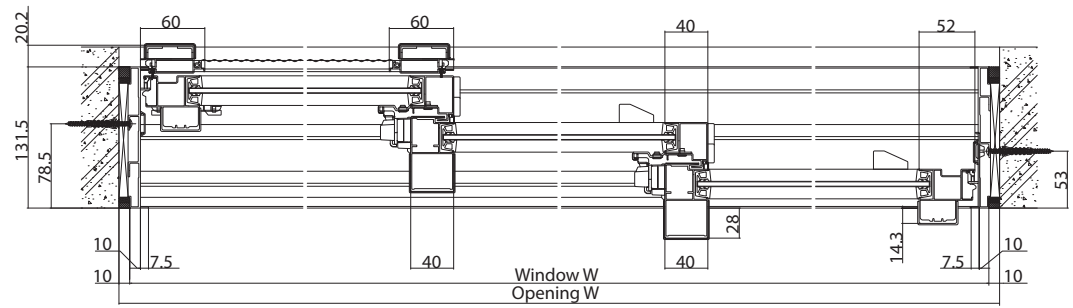
Horizontal section: Sliding (3 panels on 3 tracks) Type B with TL-X screen



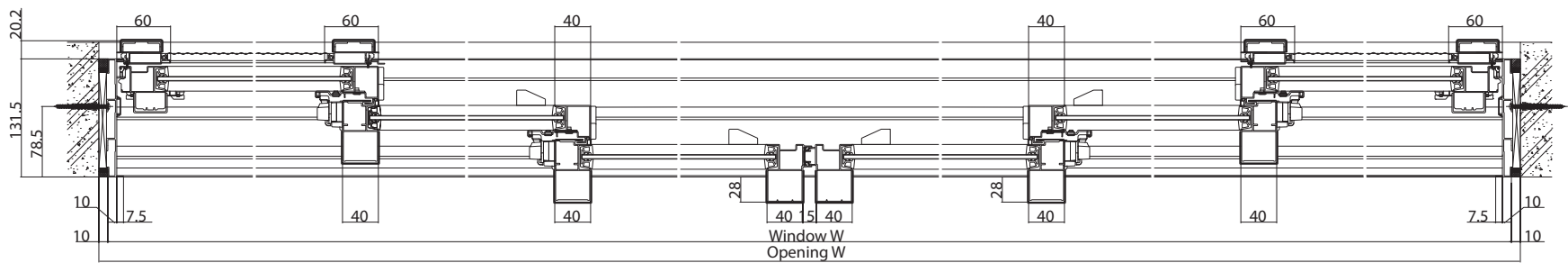
Horizontal section: Sliding (6 panels on 3 tracks) Type B with TL-X screen



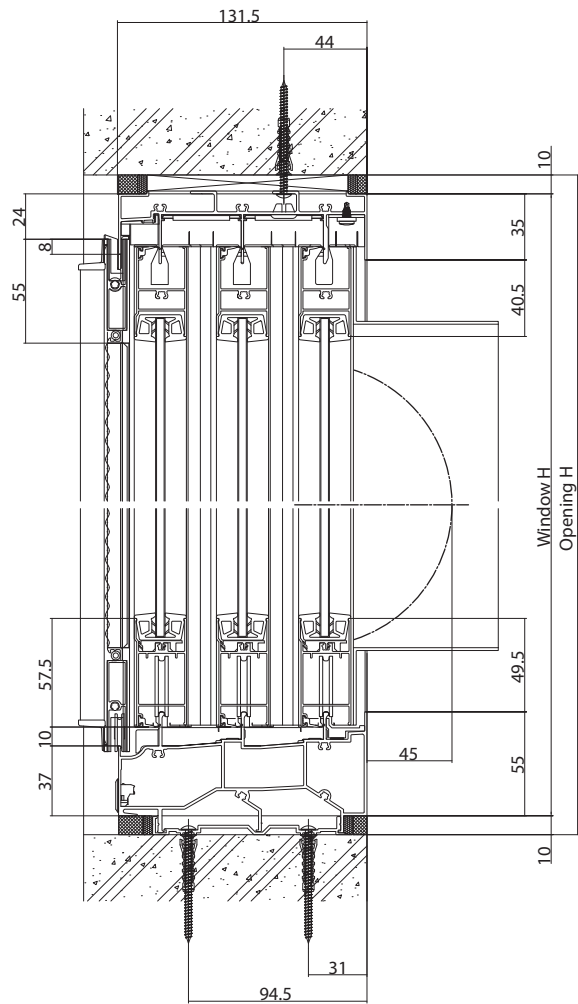
Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type C with TR-X screen



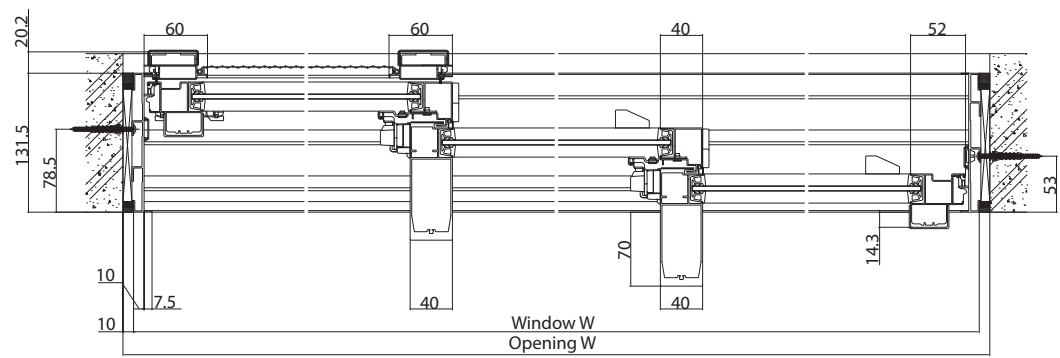
Horizontal section: Sliding (3 panels on 3 tracks) Type C with TR-X screen



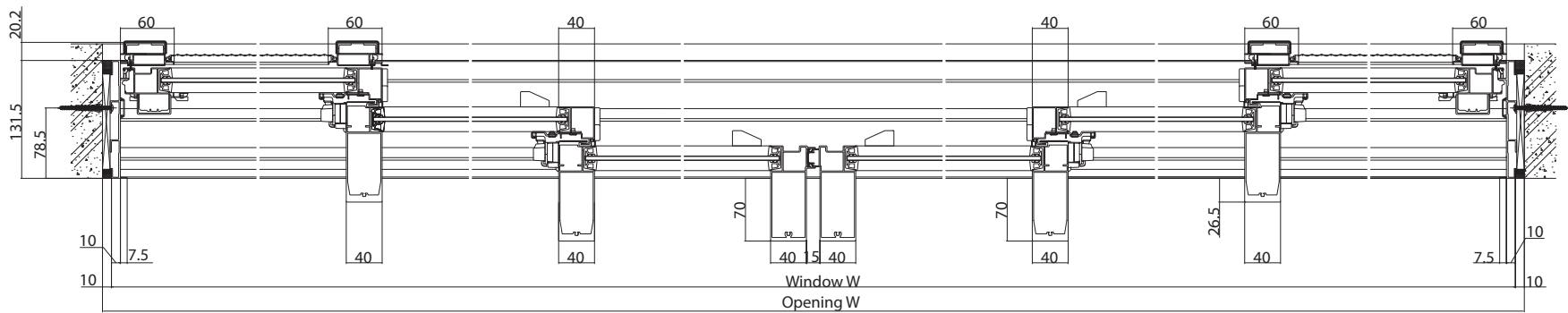
Horizontal section: Sliding (6 panels on 3 tracks) Type C with TR-X screen



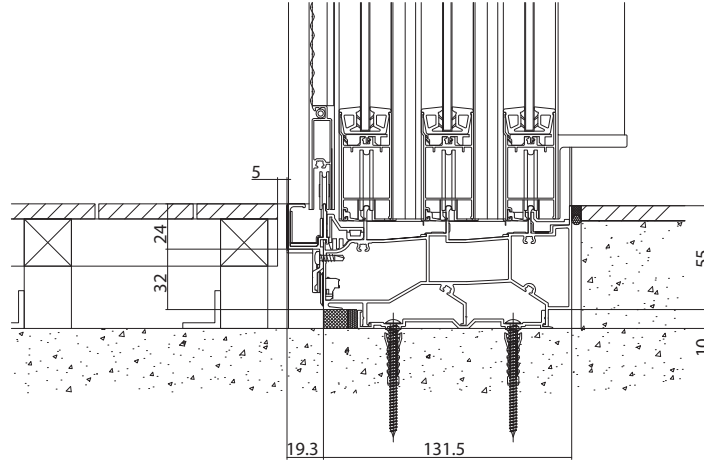
Vertical section: Sliding (3 and 6 panels 3 tracks)  
Type D with TR-X screen



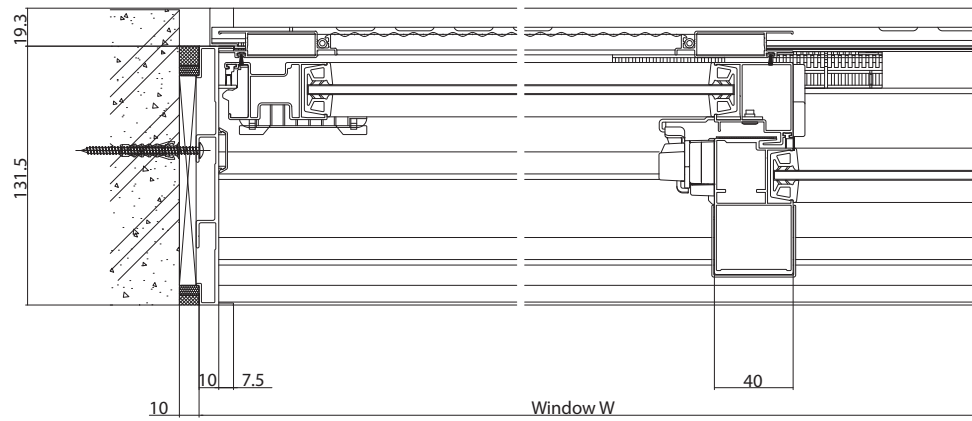
Horizontal section: Sliding (3 panels on 3 tracks) Type D with TR-X screen



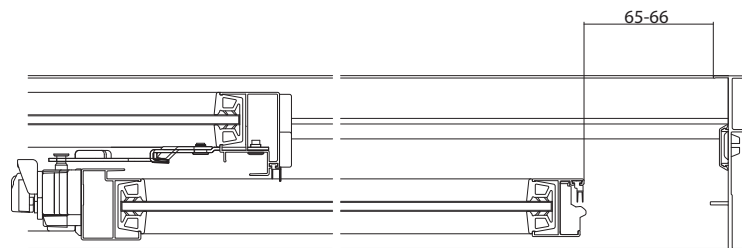
Horizontal section: Sliding (6 panels on 3 tracks) Type D with TR-X screen



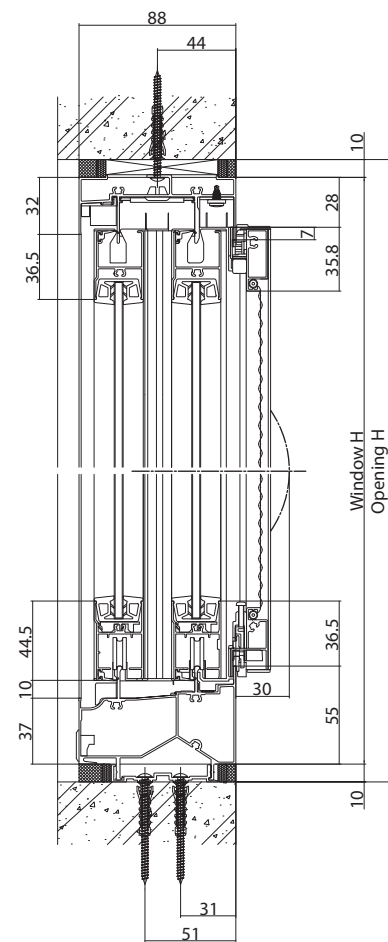
Vertical section: Outside screen rail option with TL-X screen



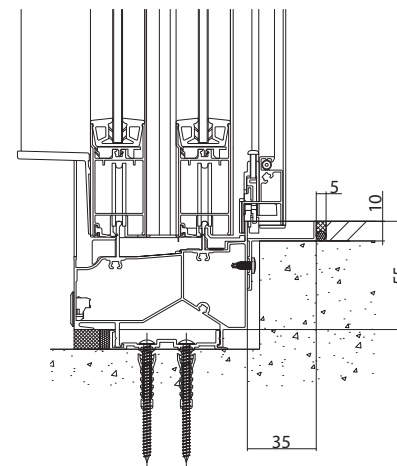
Horizontal section: Outside screen rail option with TL-X screen



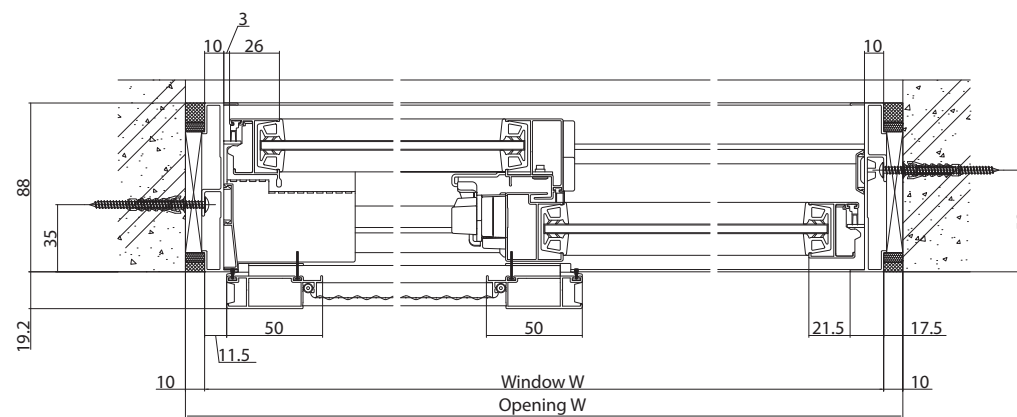
Options (limit arm) Jamb detail



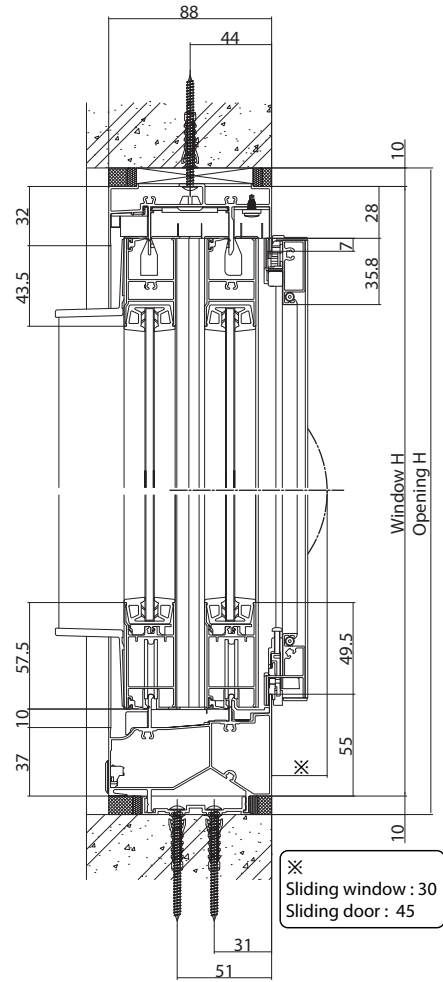
Vertical section: Sliding (2 panels on 2 tracks)  
Type A with TL-N screen



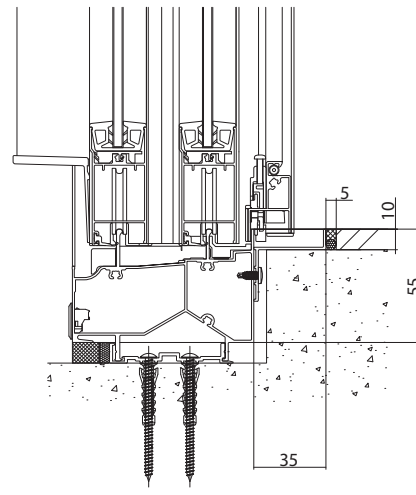
Vertical section: Sliding for floor



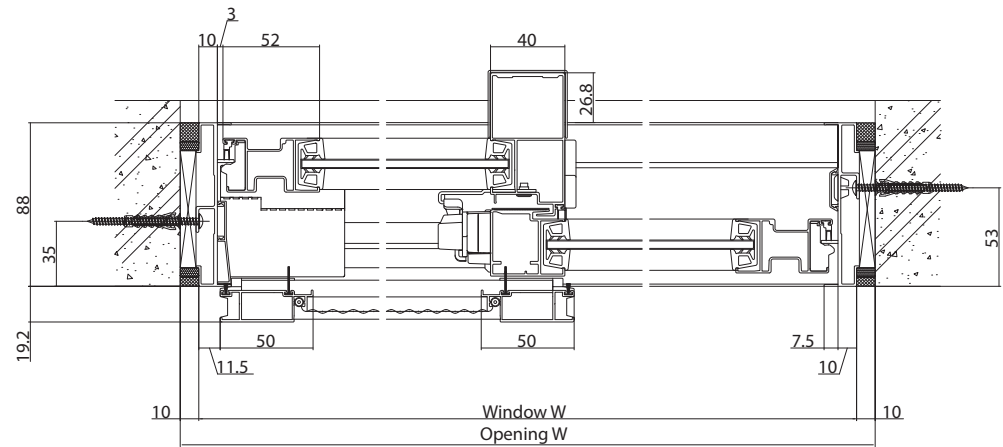
Horizontal section: Sliding (2 panels on 2 tracks) Type A with TL-N screen



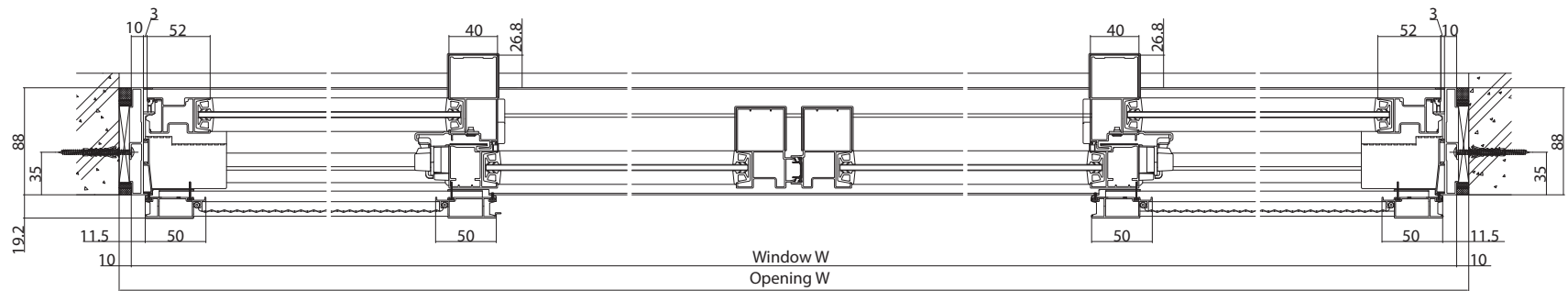
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type B with TL-N screen



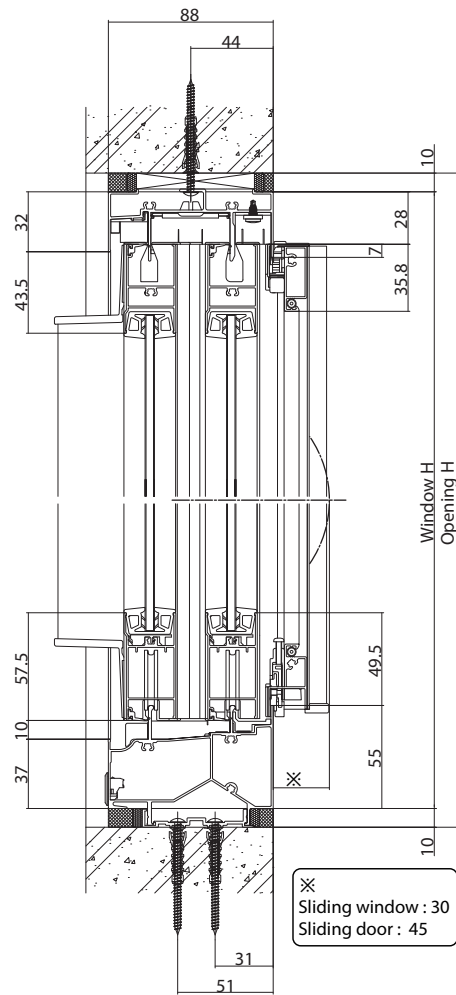
Vertical section: Sliding for floor



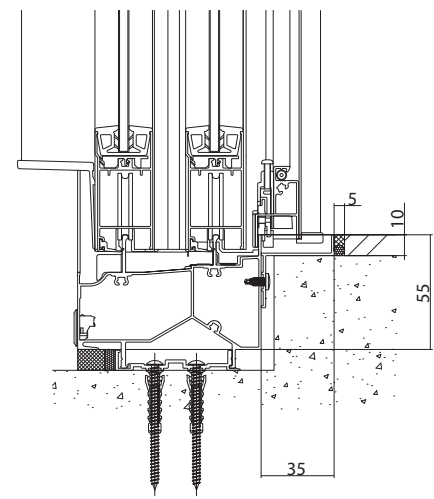
Horizontal section: Sliding (2 panels on 2 tracks) Type B with TL-N screen



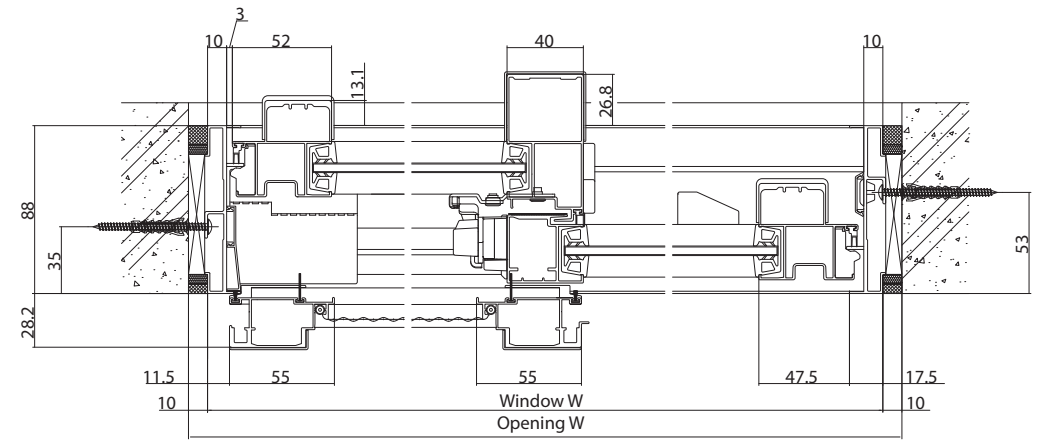
Horizontal section: Sliding (4 panels on 2 tracks) Type B with TL-N screen



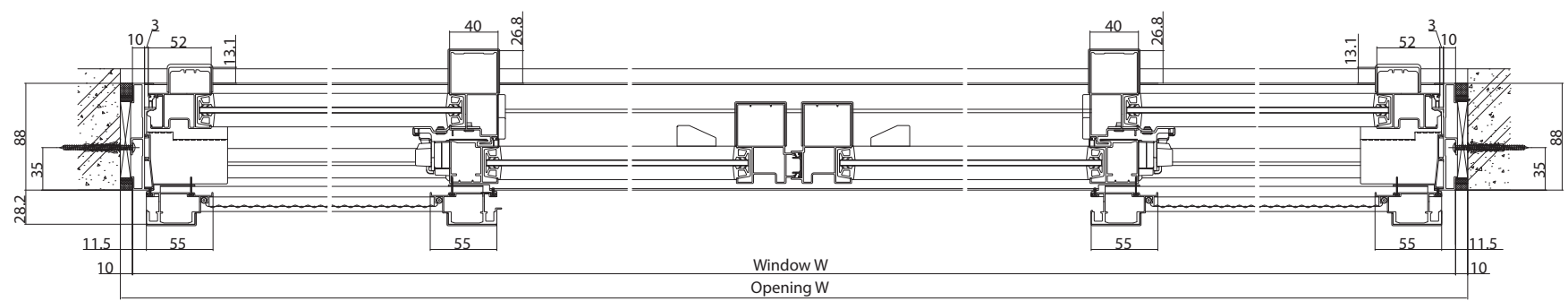
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type C with TR-N screen



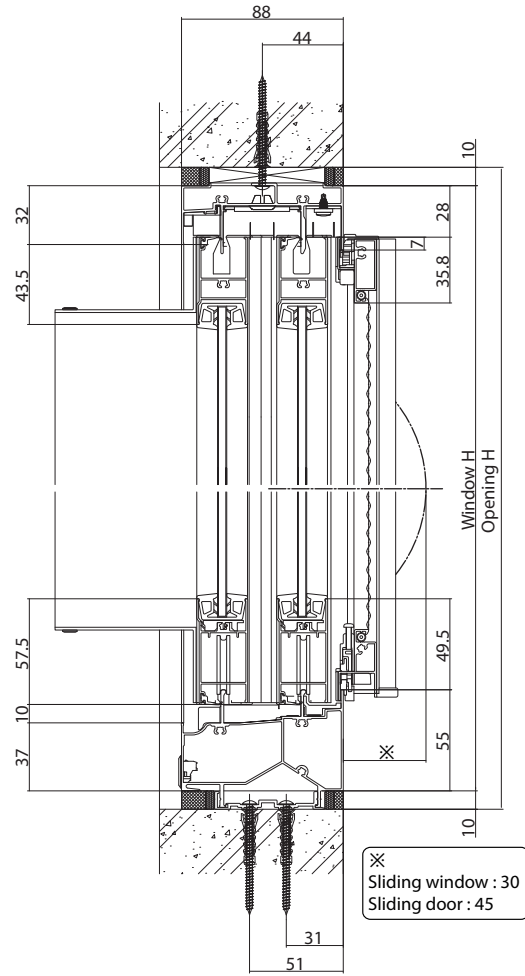
Vertical section: Sliding for floor



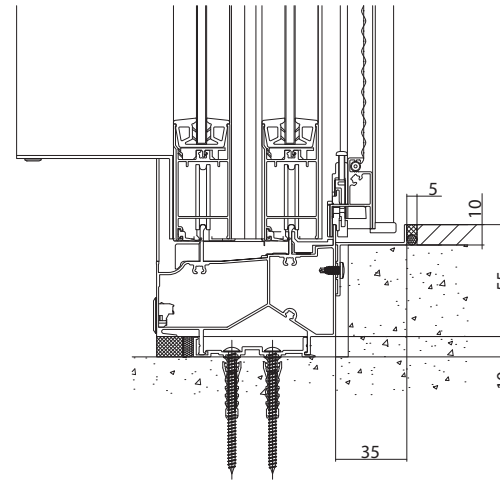
Horizontal section: Sliding (2 panels on 2 tracks) Type C with TR-N screen



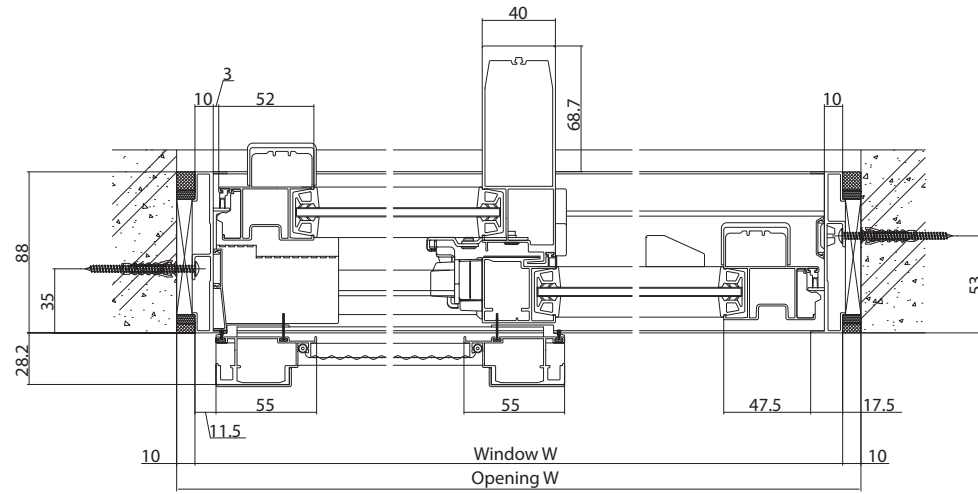
Horizontal section: Sliding (4 panels on 2 tracks) Type C with TR-N screen



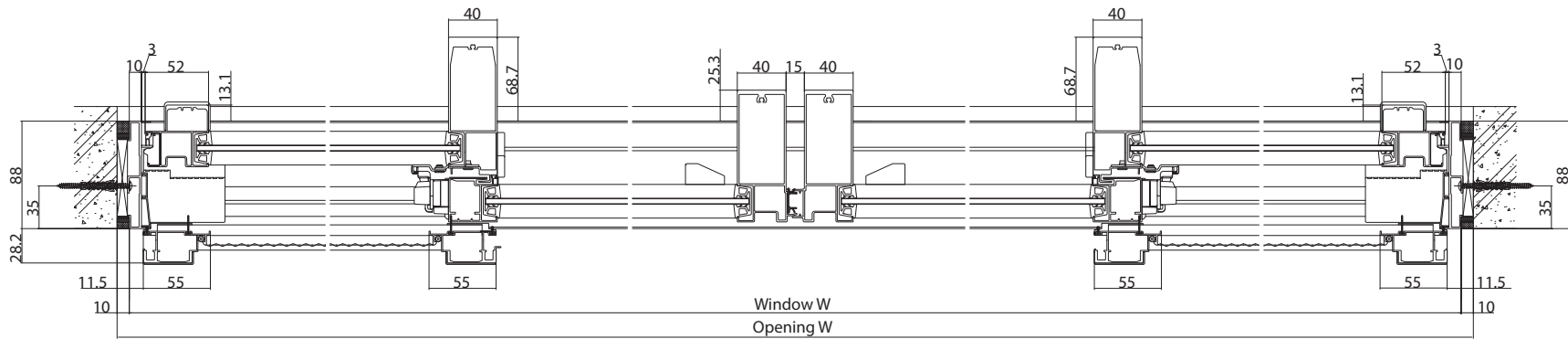
Vertical section: Sliding (2 and 4 panels on 2 tracks)  
Type D with TR-N screen



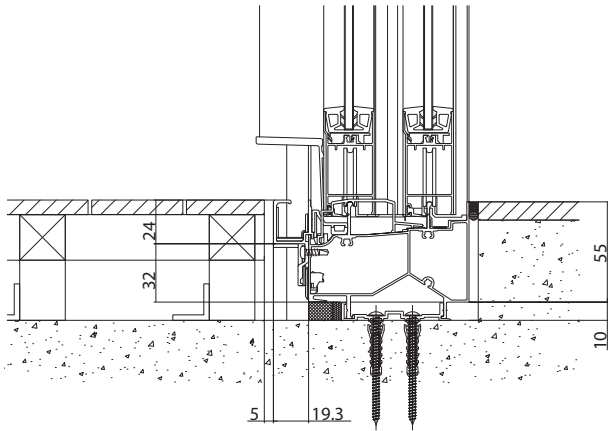
Vertical section: Sliding for floor



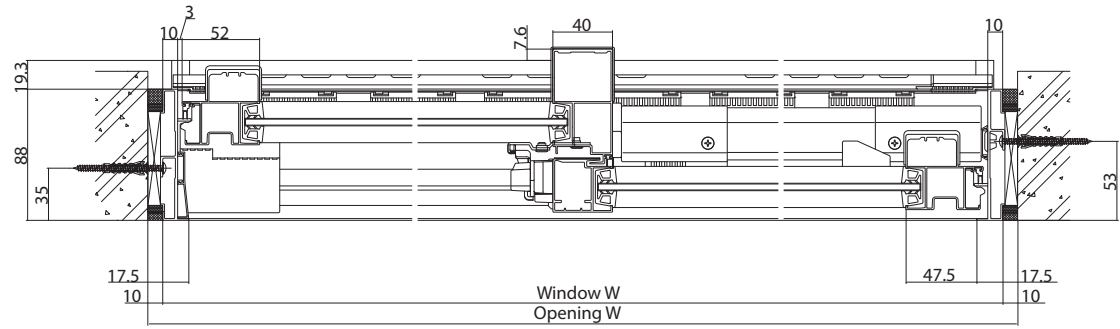
Horizontal section: Sliding (2 panels on 2 tracks) Type D with TR-N screen



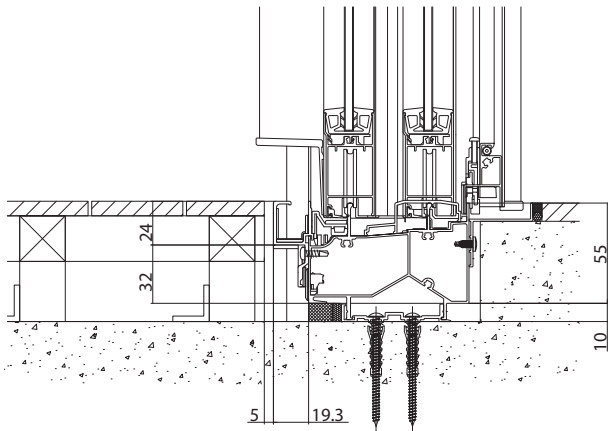
Horizontal section: Sliding (4 panels on 2 tracks) Type D with TR-N screen



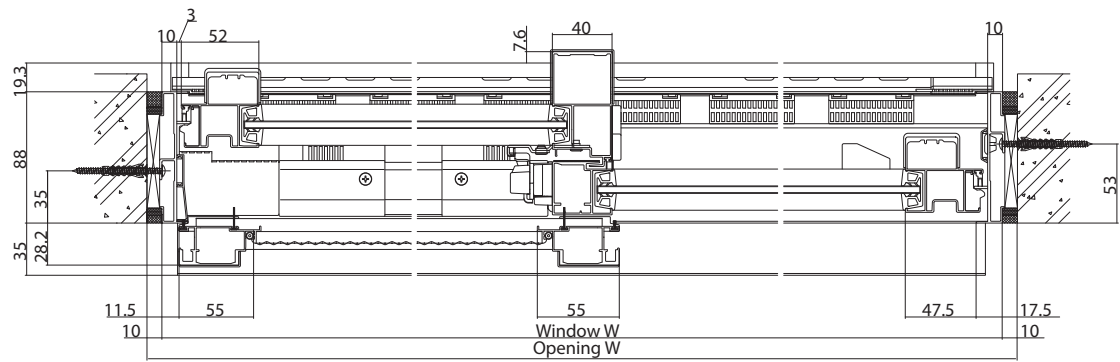
Vertical section: 2 and 4 panels  
Barrier flat sill Outside option



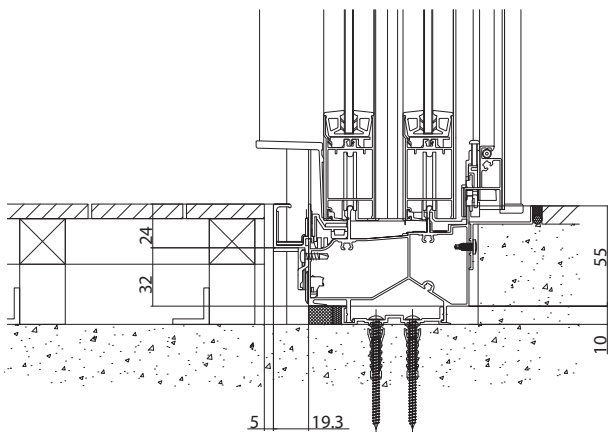
Horizontal section: 2 panels Barrier flat sill Outside option



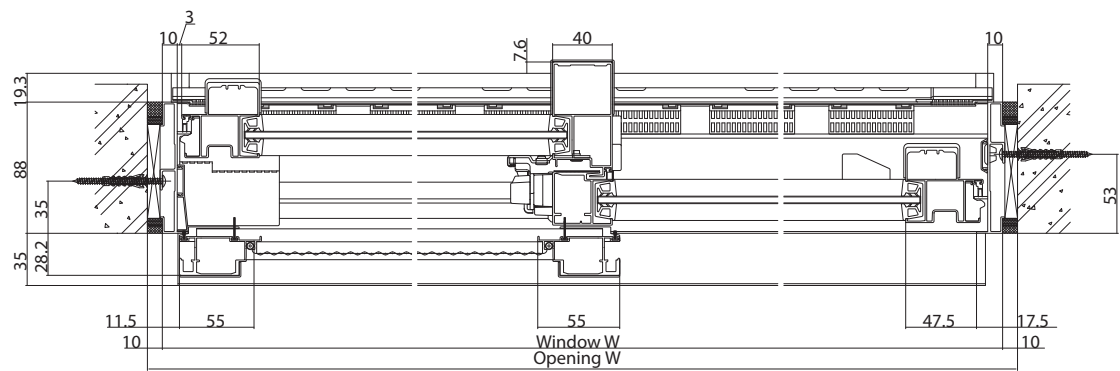
Vertical section: 2 and 4 panels  
Barrier flat sill Inside option with TR-N screen



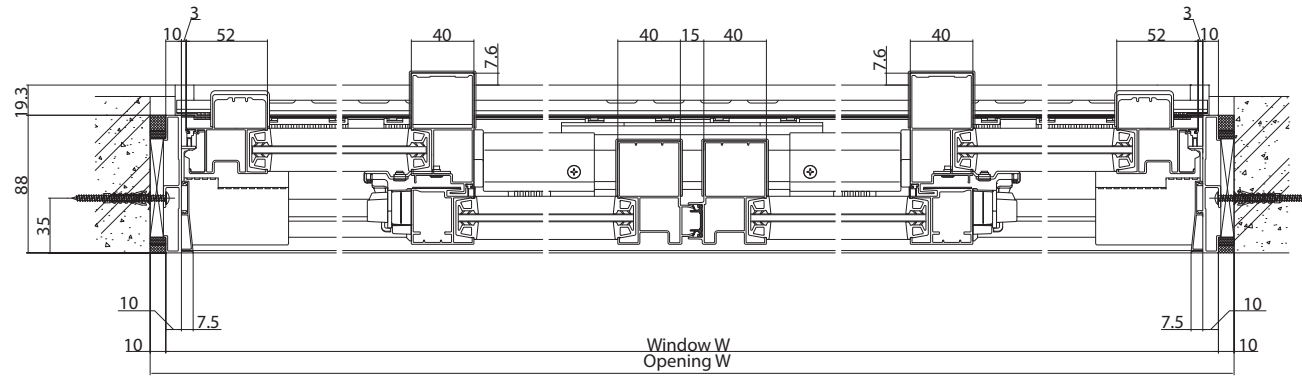
Horizontal section: 2 panels Barrier flat sill Inside option with TR-N screen



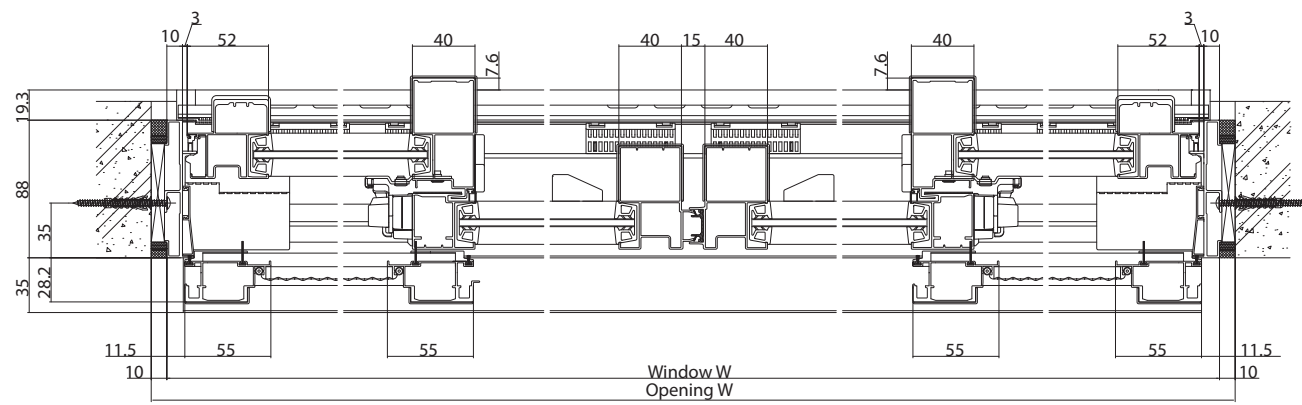
Vertical section: 2 and 4 panels  
Outside screen rail option with TR-N screen



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



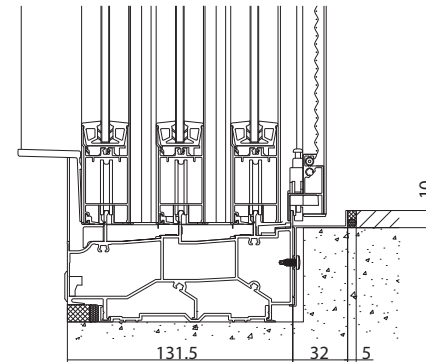
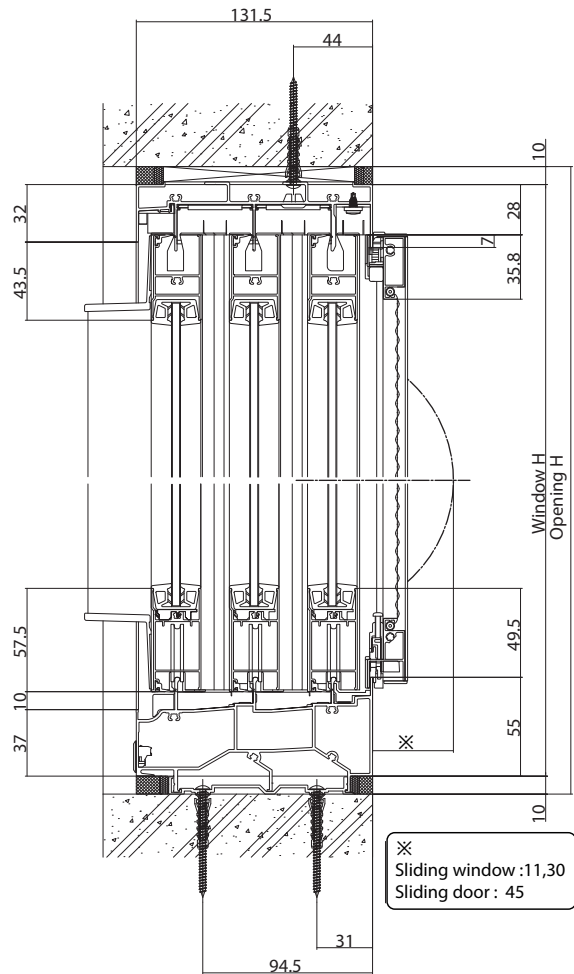
Horizontal section: 4 panels Barrier flat sill Outside option



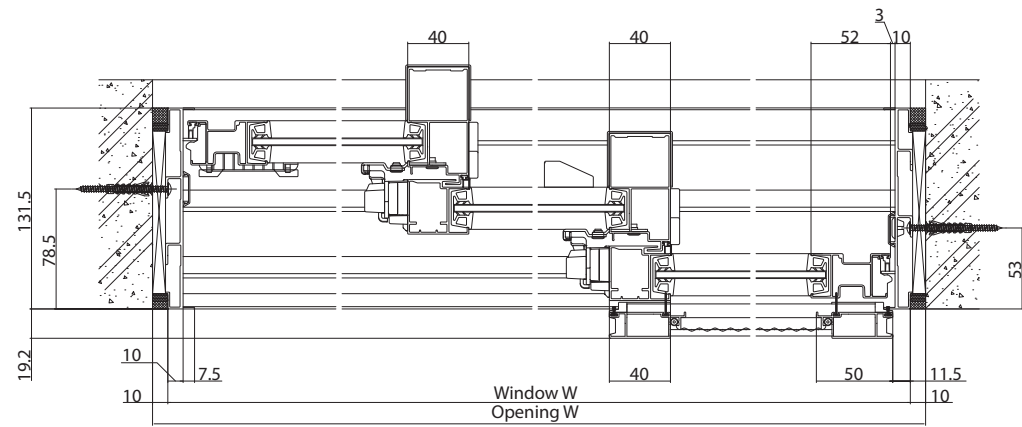
Horizontal section: 4 panels Outside screen rail option with TR-N screen

# ATIS

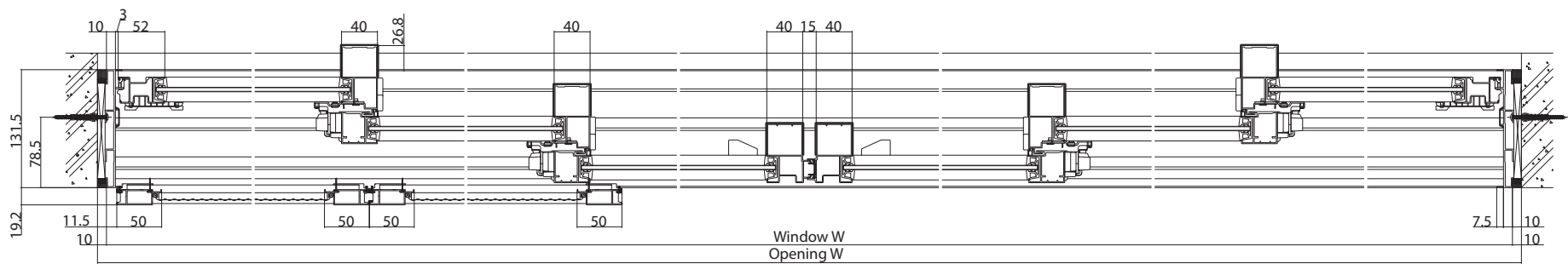
## SLIDING (3P3T, 6P3T) WITH INSIDE INSECT SCREEN



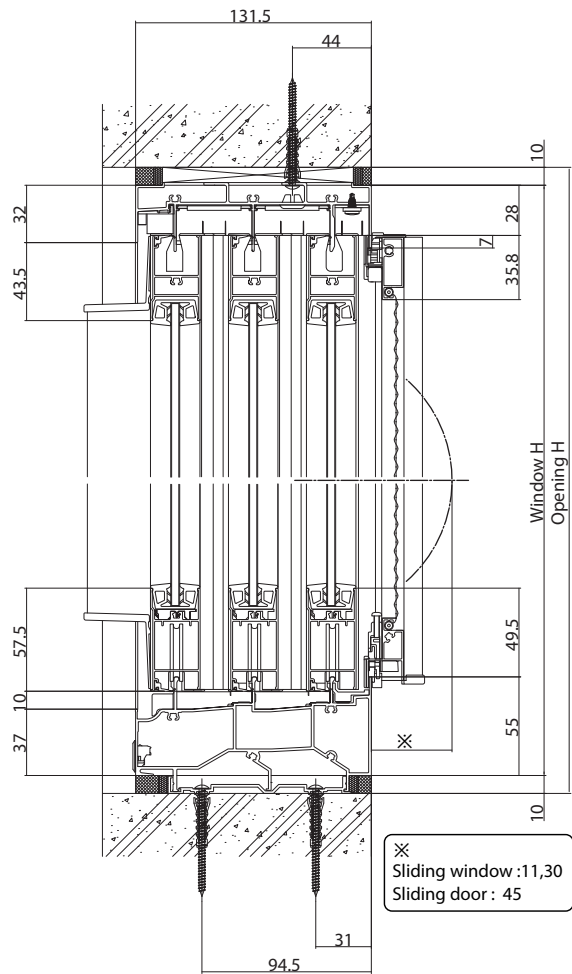
Vertical section: Sliding for floor



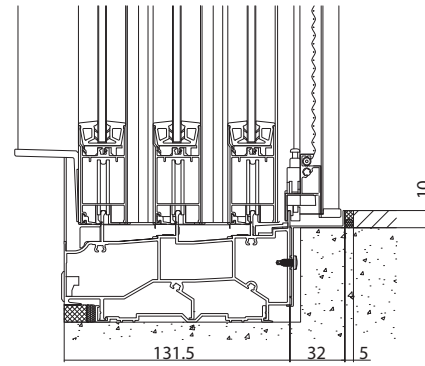
Horizontal section: Sliding (3 panels on 3 tracks) Type B with TL-N screen



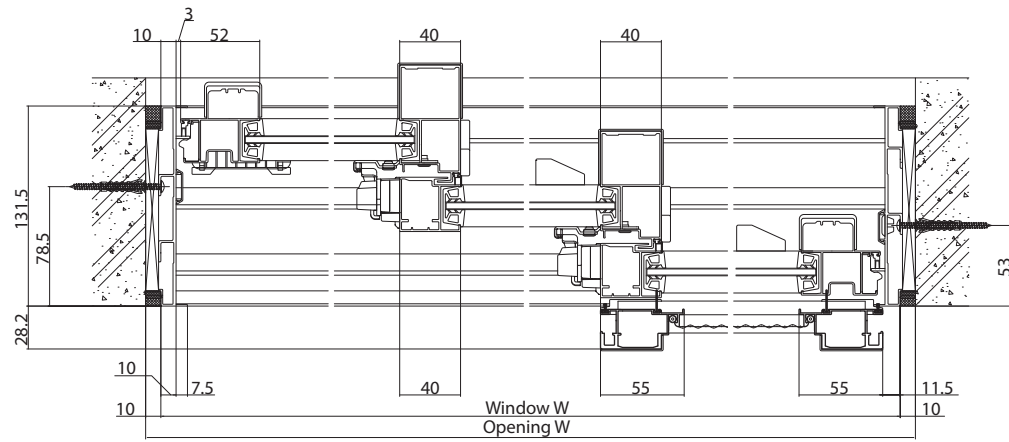
Horizontal section: Sliding (6 panels on 3 tracks) Type B with TL-N screen



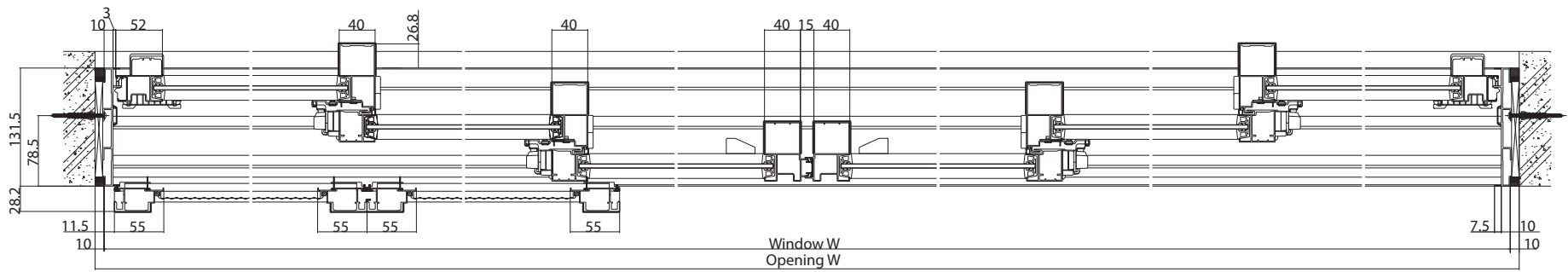
Vertical section: Sliding (3 and 6 panels on 3 tracks)  
Type C with TR-N screen



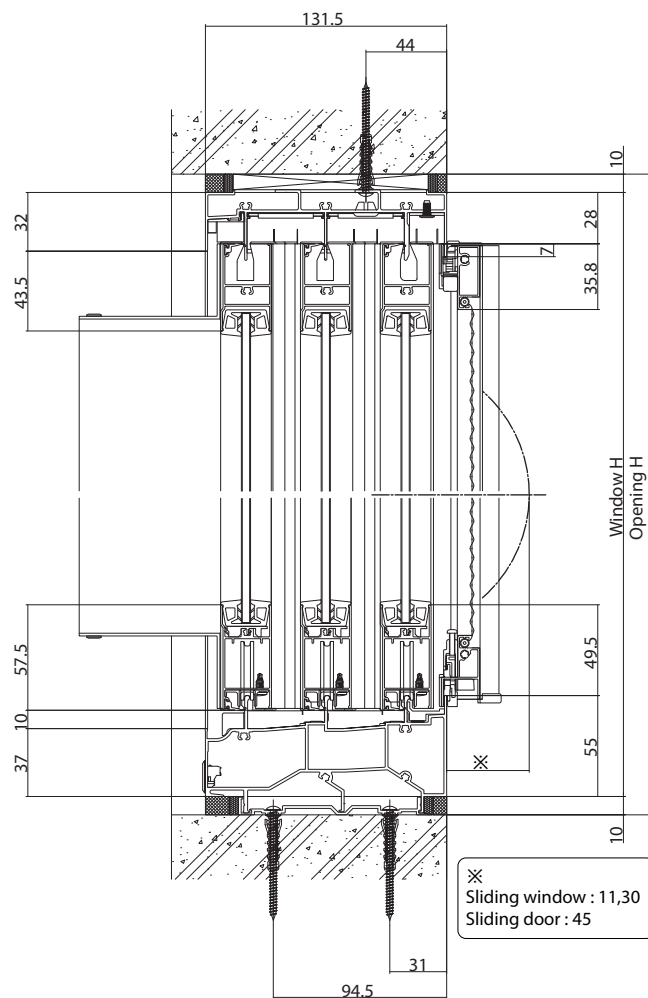
Vertical section: Sliding for floor



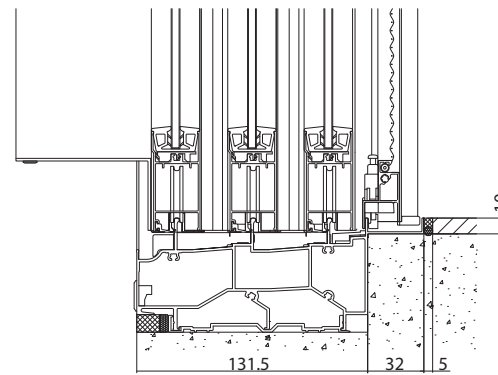
Horizontal section: Sliding (3 panels on 3 tracks) Type C with TR-N screen



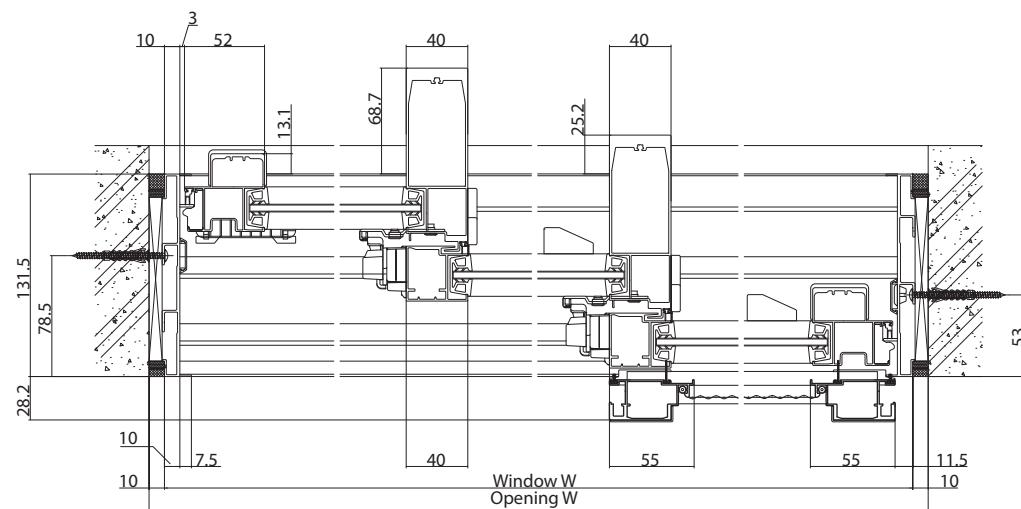
Horizontal section: Sliding (6 panels on 3 tracks) Type C with TR-N screen



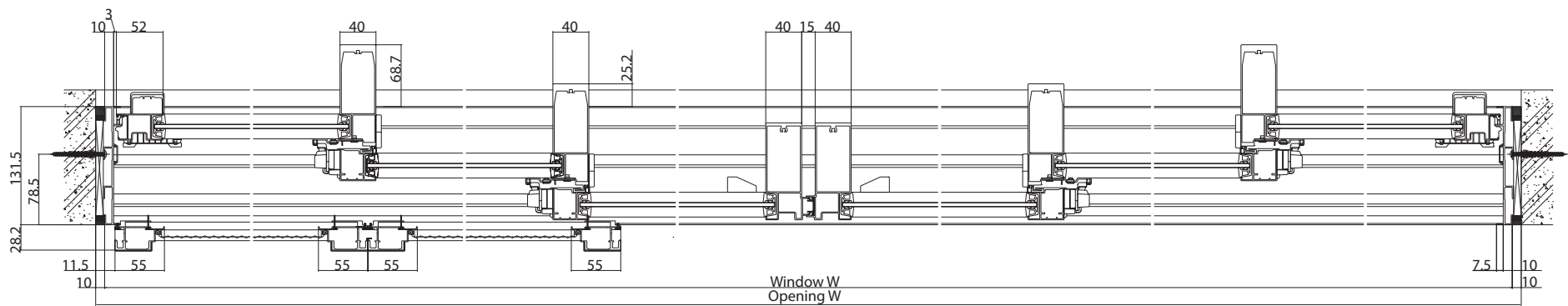
Vertical section: Sliding (3 and 6 panels on 3 tracks)  
Type D with TR-N screen



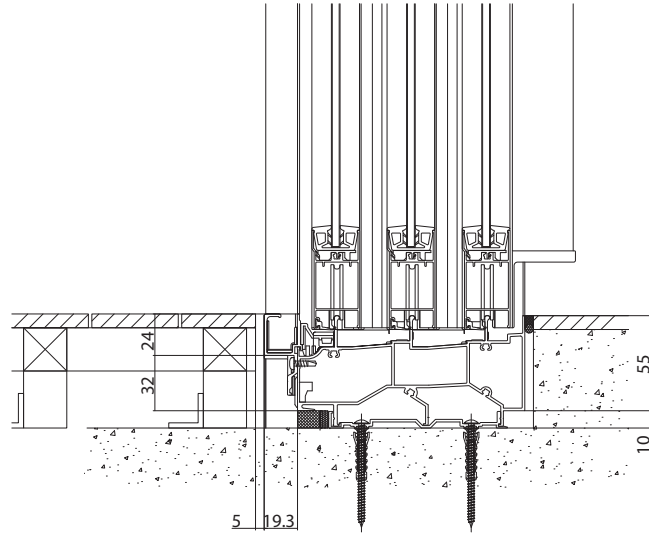
Vertical section: Sliding for floor



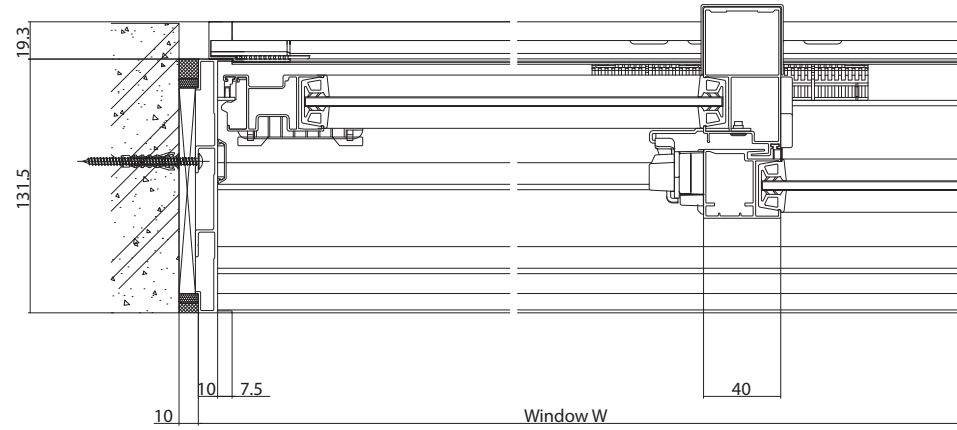
Horizontal section: Sliding (3 panels on 3 tracks) Type D with TR-N screen



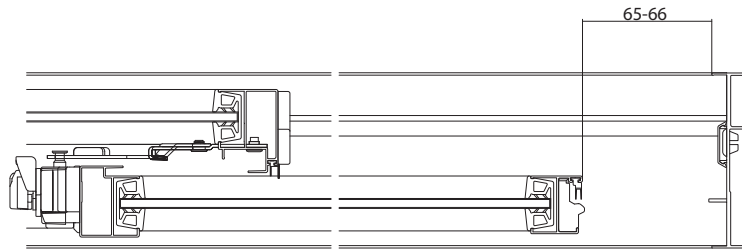
Horizontal section: Sliding (6 panels on 3 tracks) Type D with TR-N screen



Vertical section: Outside rail option



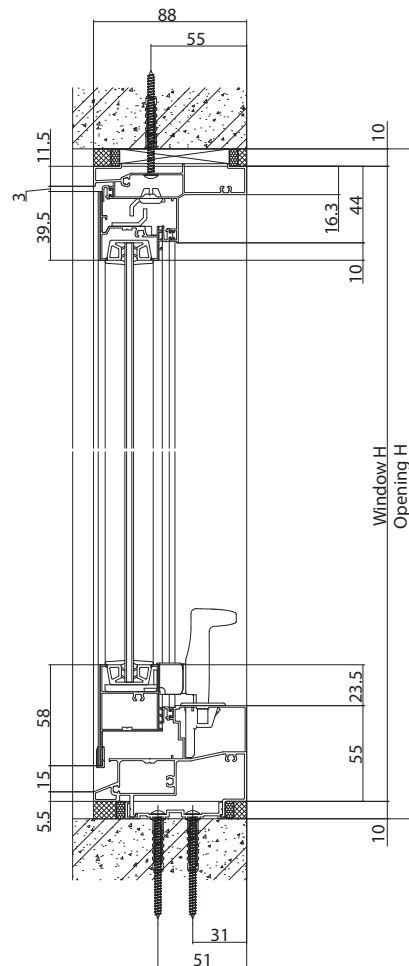
Horizontal section: Outside rail option



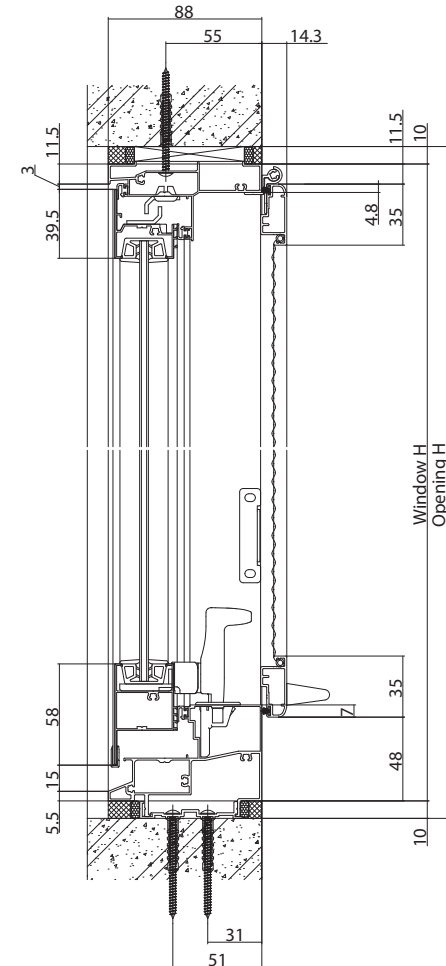
Options (limit arm) Jamb detail

# ATIS

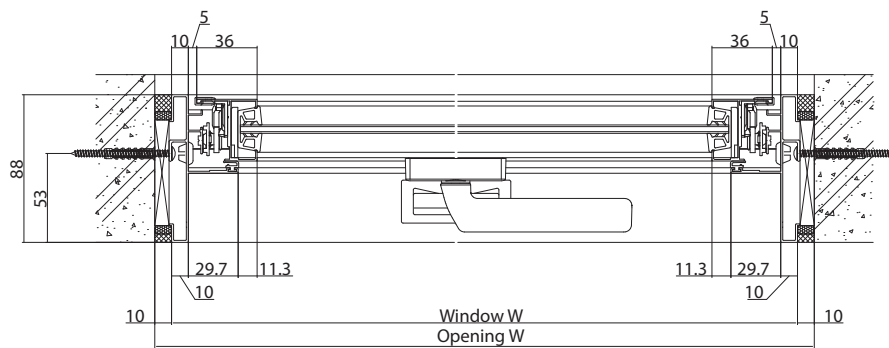
## AWNING WINDOW



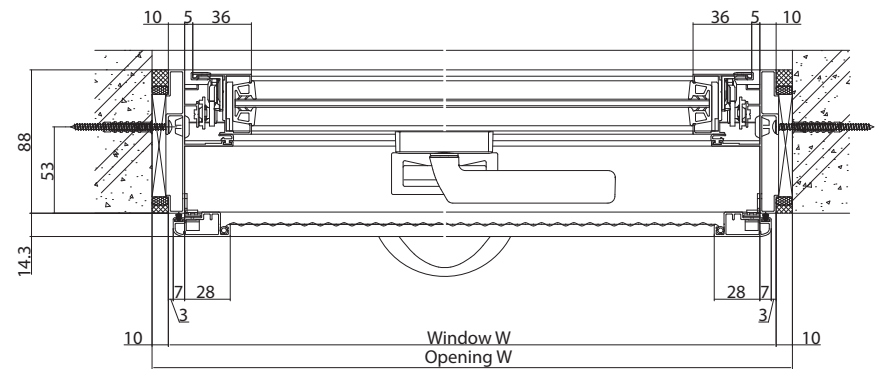
Vertical section: Awning window (Single lock)



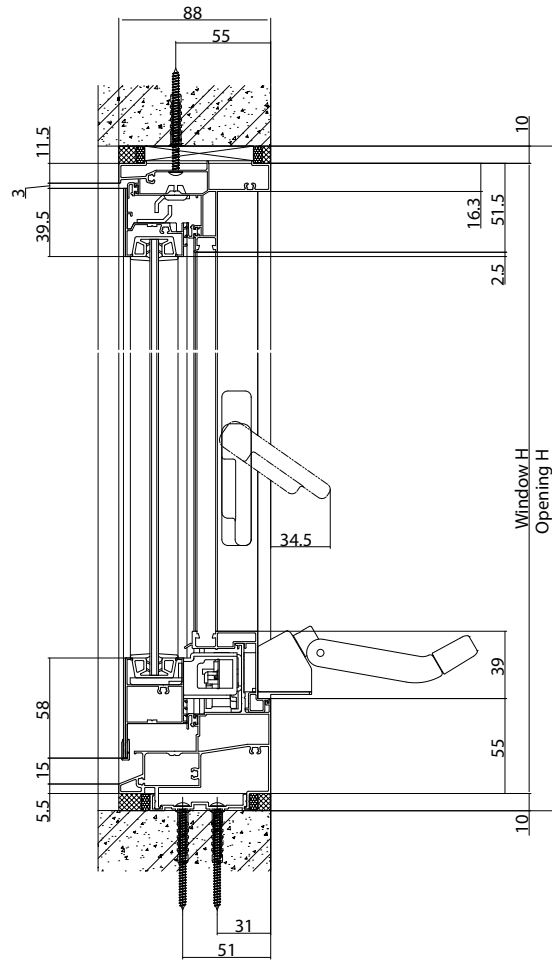
Vertical section: Awning window with screen



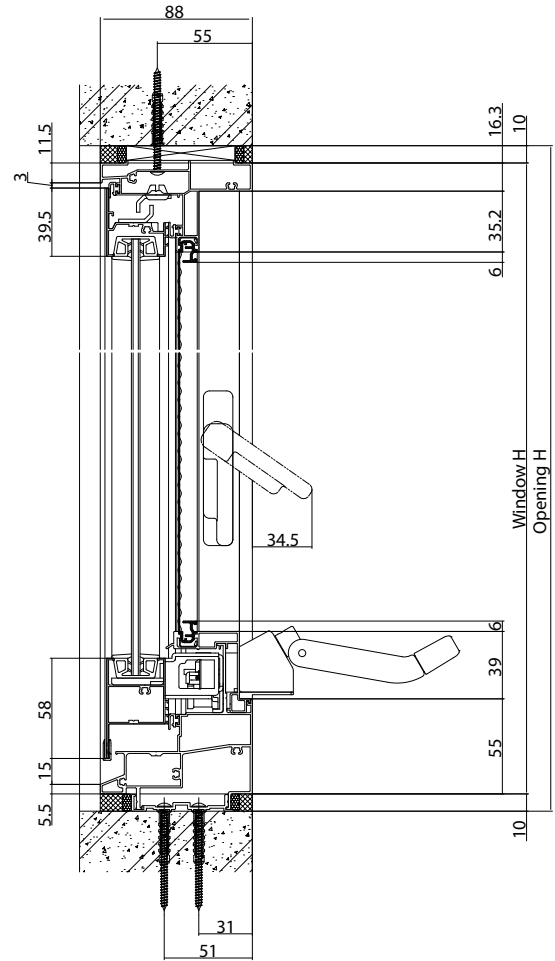
Horizontal section: Awning window (Single lock)



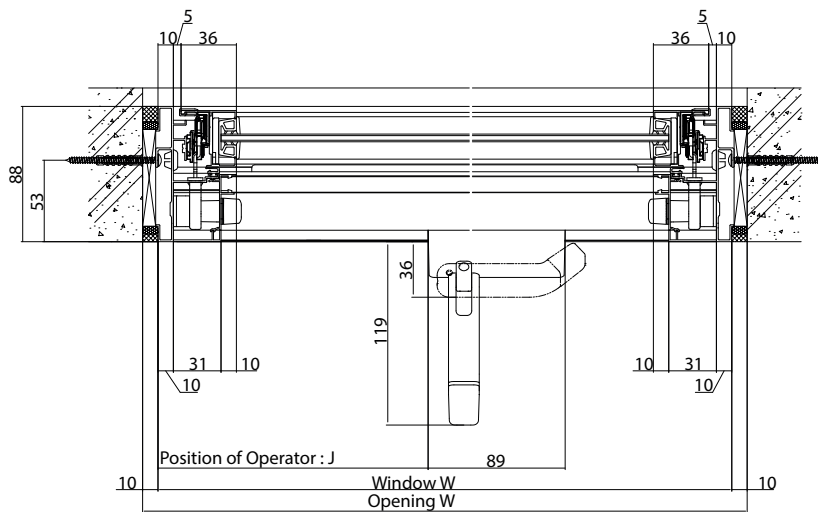
Horizontal section: Awning window with screen



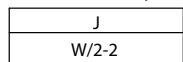
Vertical section: Awning operator window



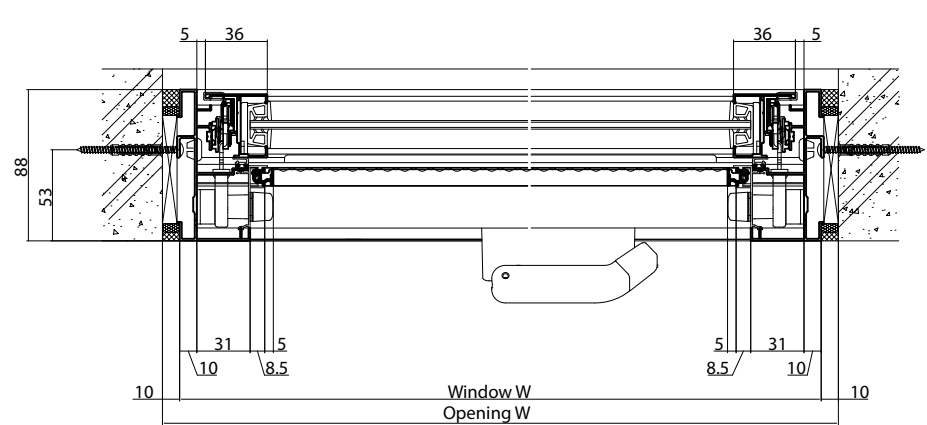
Vertical section: Awning window operator with screen



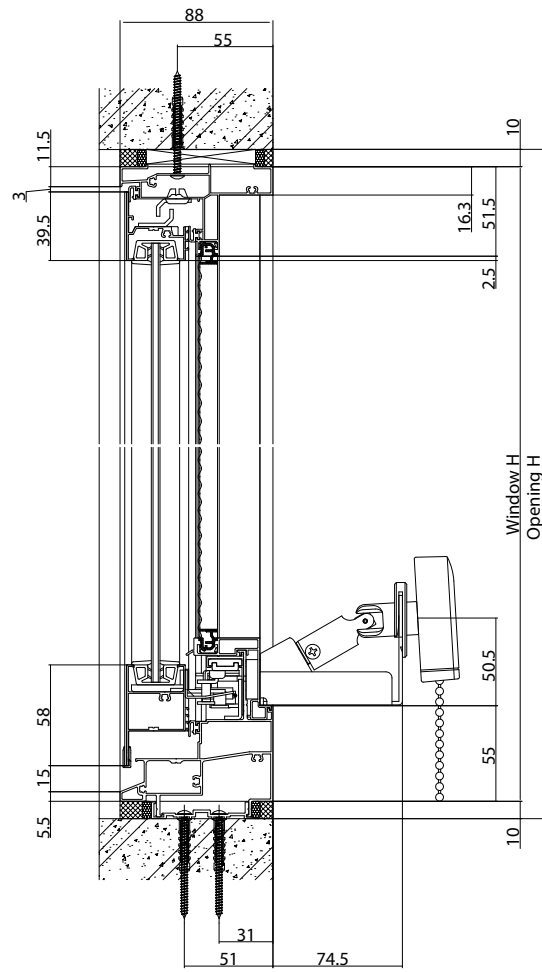
In case of Position of Operator : J



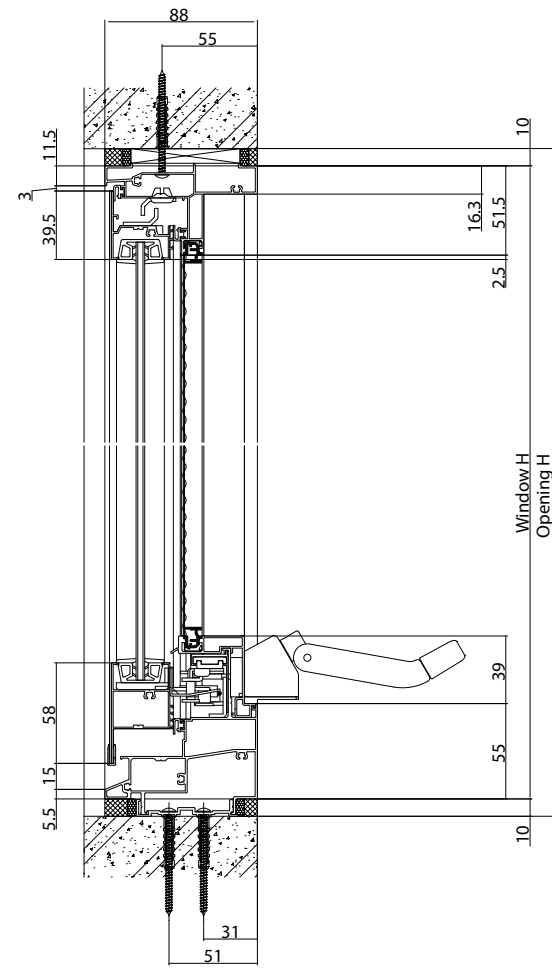
Horizontal section: Awning operator window



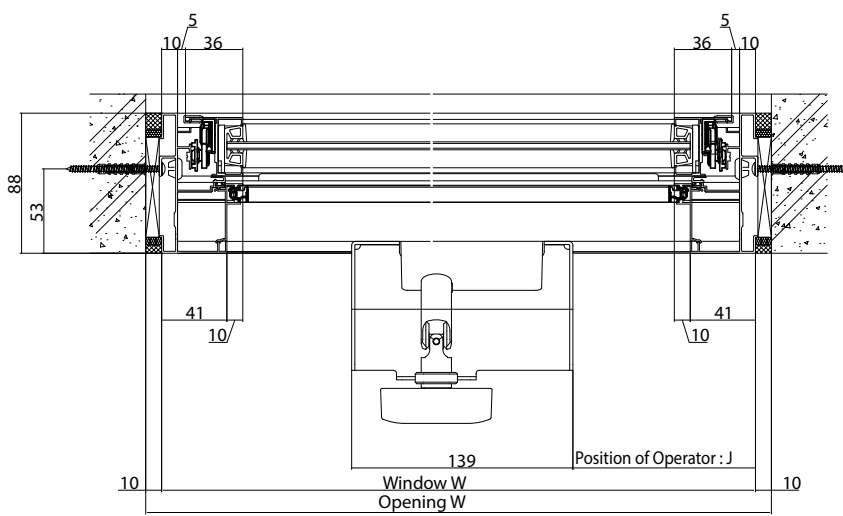
Horizontal section: Awning window operator with screen



Vertical section: Awning Slit window (chain set)



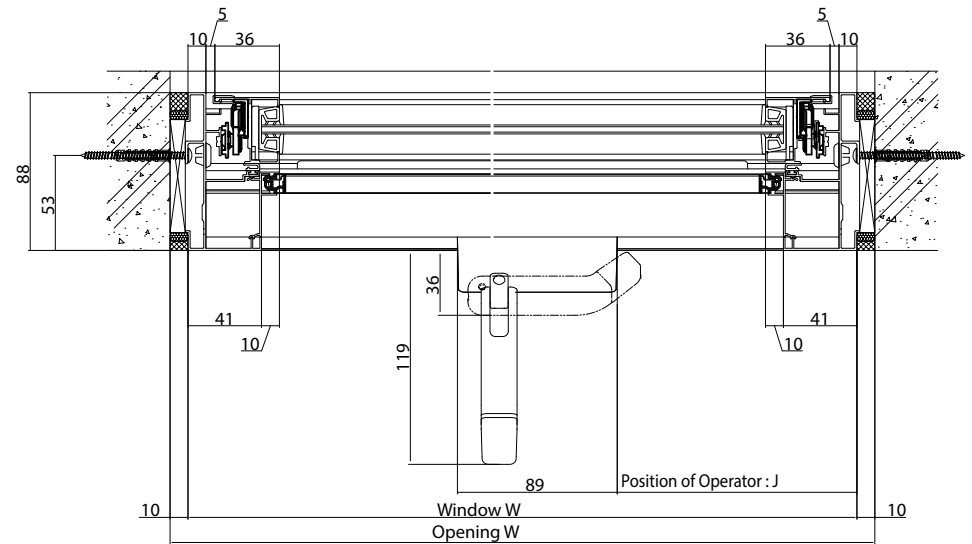
Vertical section: Awning Slit window (operator set)



In case of R type Position of Operator : J

J
45.5

Horizontal section: Awning Slit window (chain set)



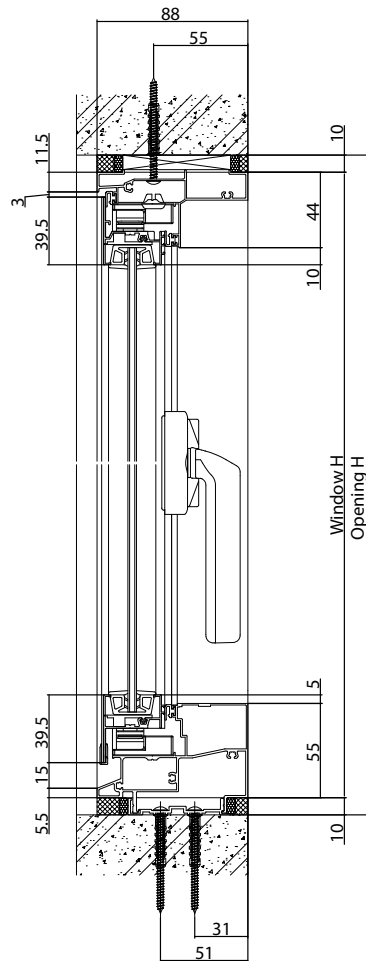
In case of R type Position of Operator : J

J
65.5

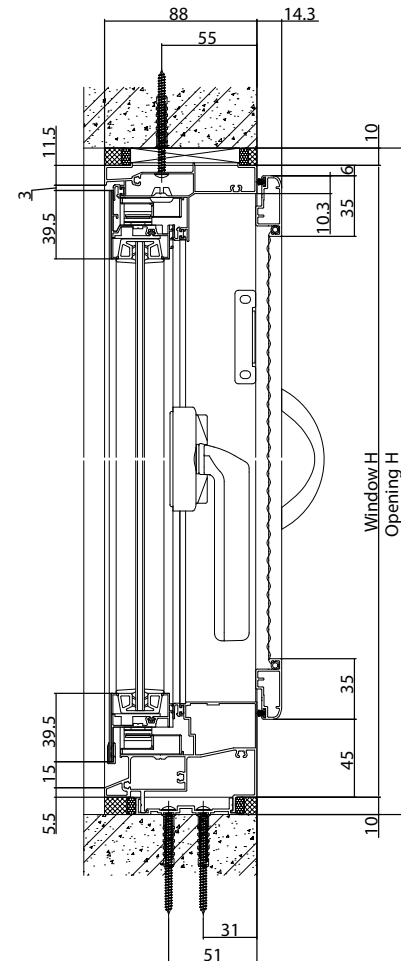
Horizontal section: Awning Slit window (operator set)

# ATIS

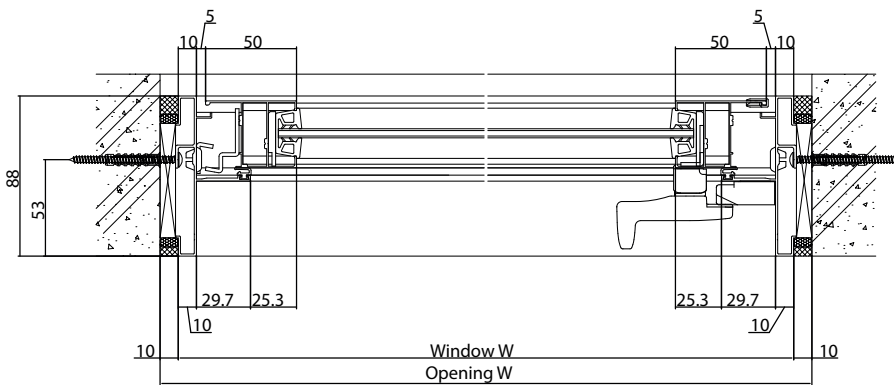
## CASEMENT WINDOW



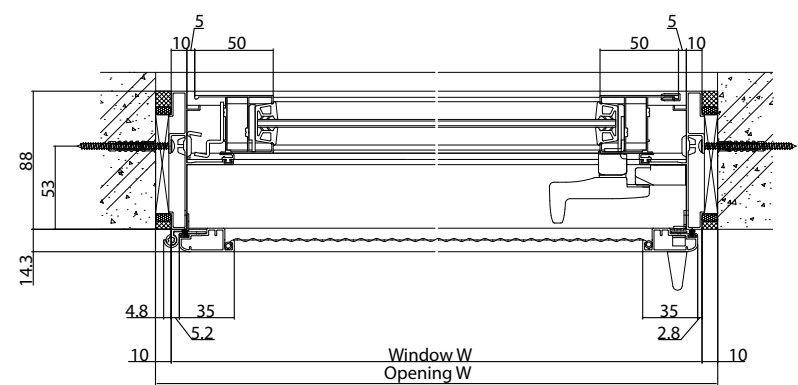
Vertical section: Casement window (Single lock)



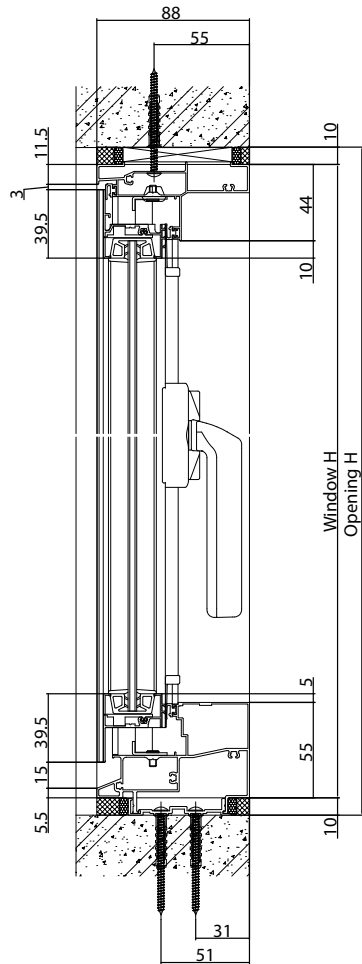
Vertical section: Casement window with screen



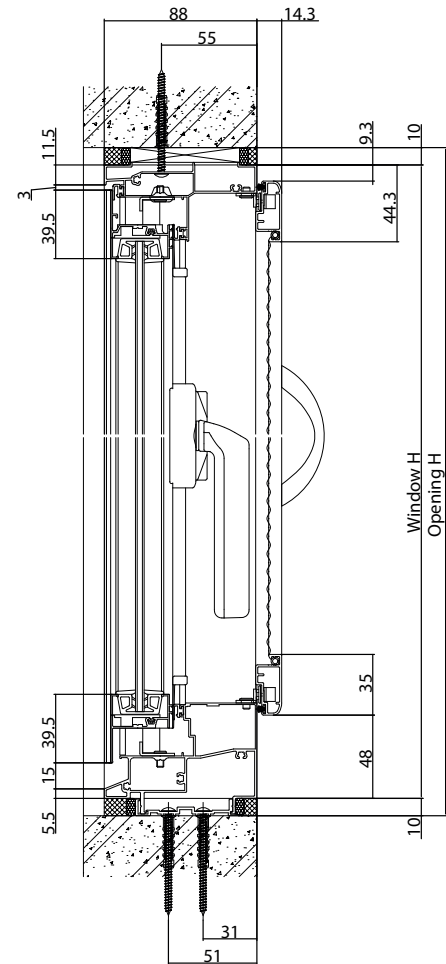
Horizontal section: Casement window (Single lock)



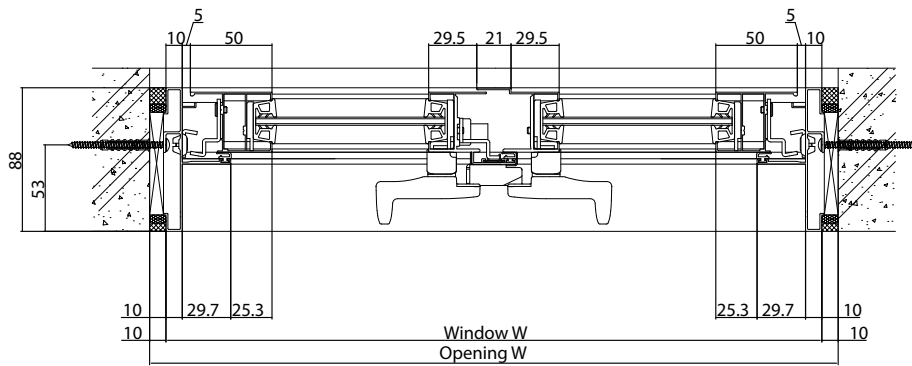
Horizontal section: Casement window with screen



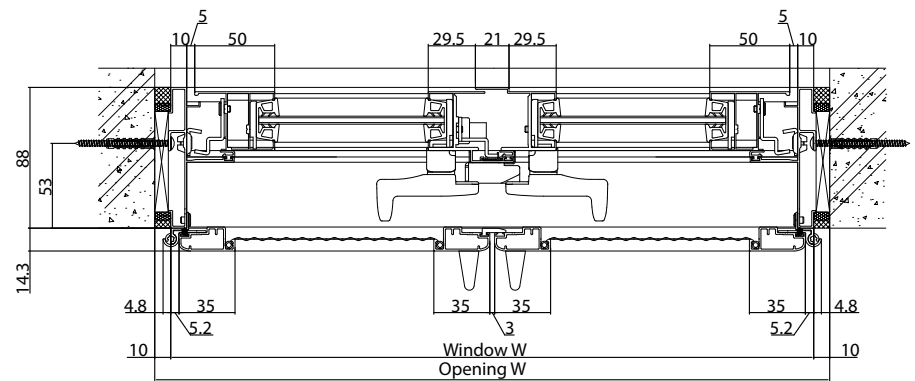
Vertical section: Double Casement window



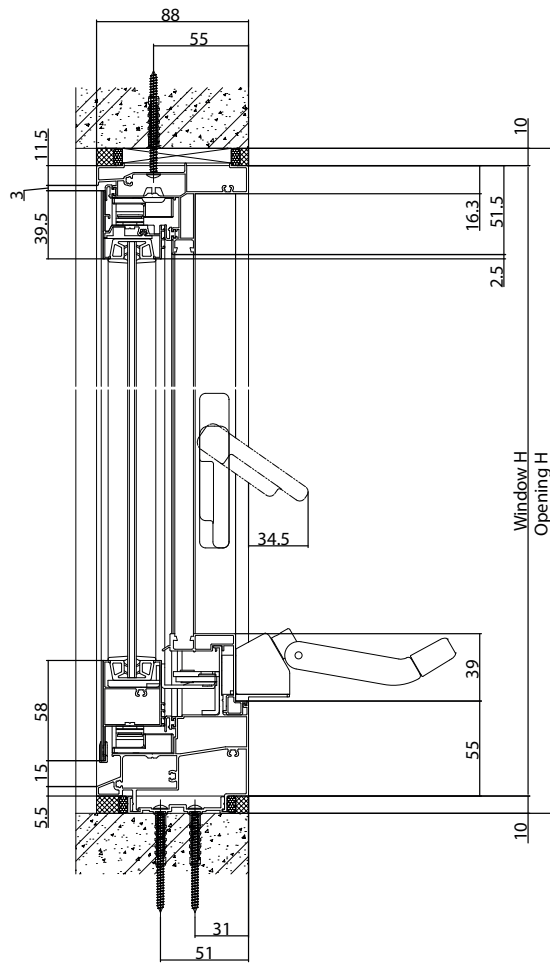
Vertical section: Double Casement window with screen



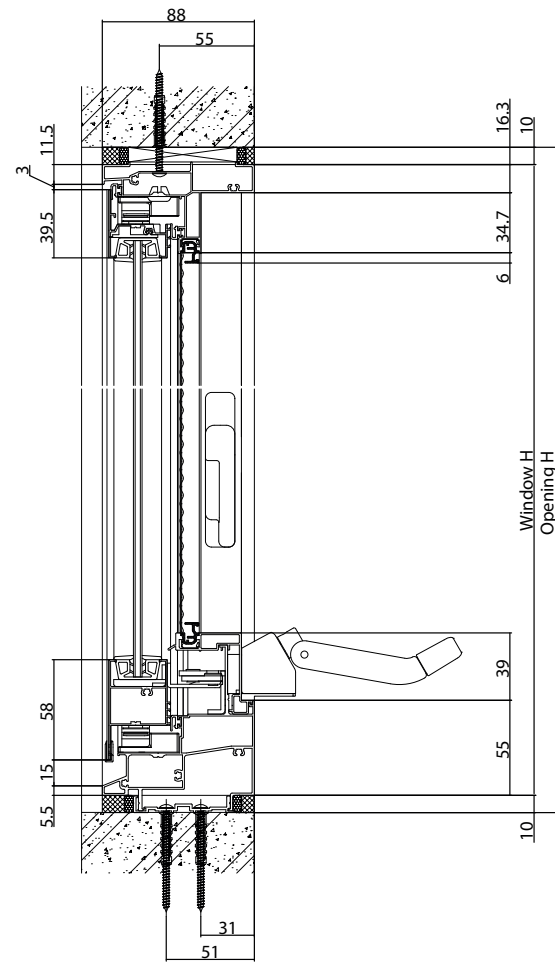
Horizontal section: Double Casement window



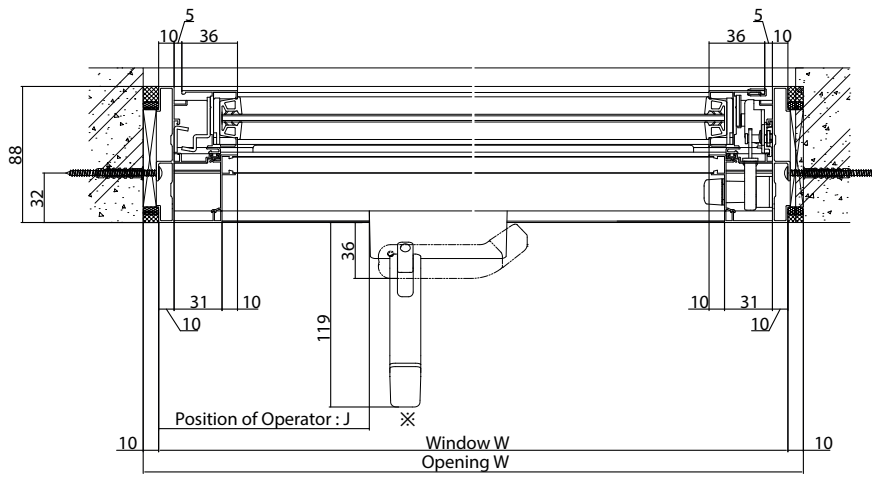
Horizontal section: Double Casement window with screen



Vertical section: Casement operator window



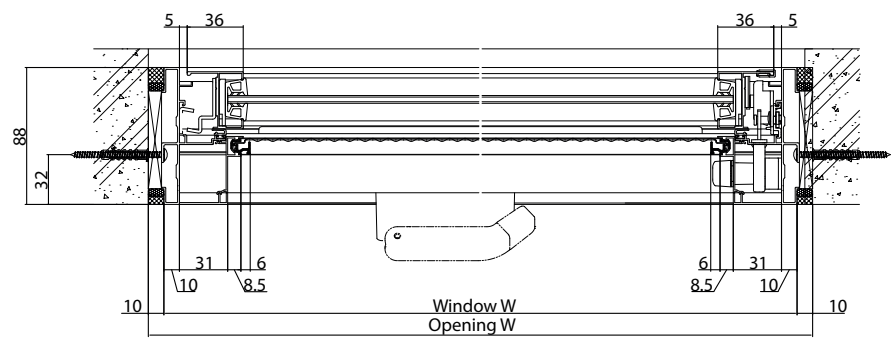
Vertical section: Casement operator window with screen



※ In case of R type Position of Operator : J

W	J
W < 418	113
418 ≤ W	179

Horizontal section: Casement operator window



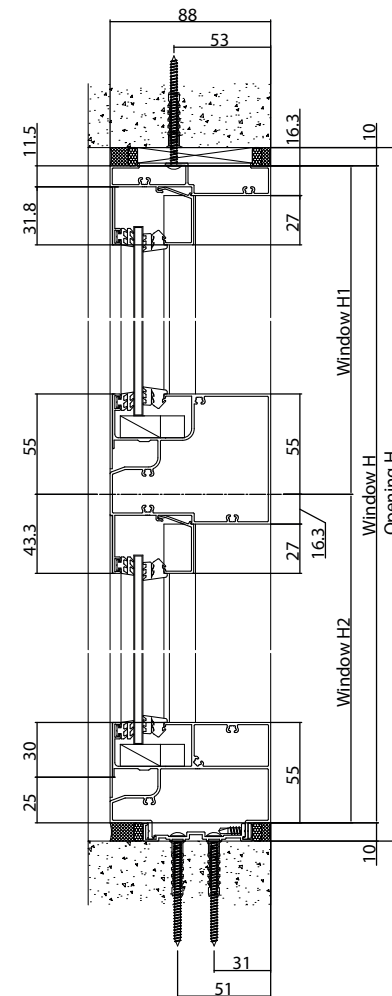
Horizontal section: Casement operator window with screen

# ATIS

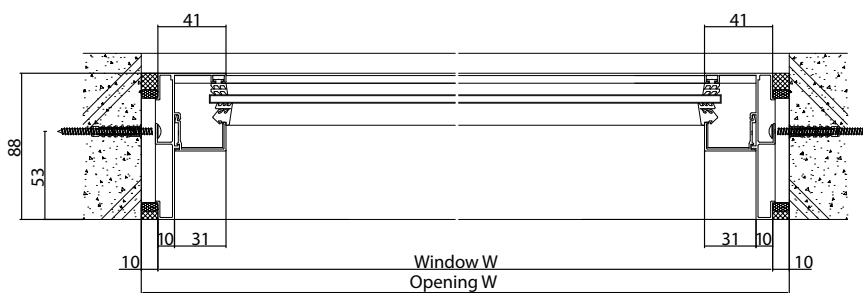
## FIXED WINDOW



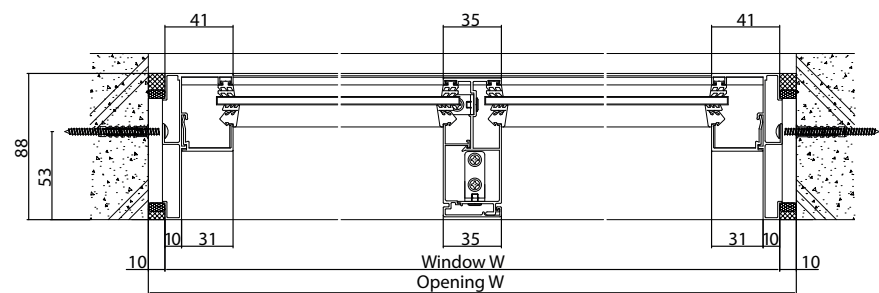
Vertical section: Single fixed window



Vertical section: Fixed window with transom

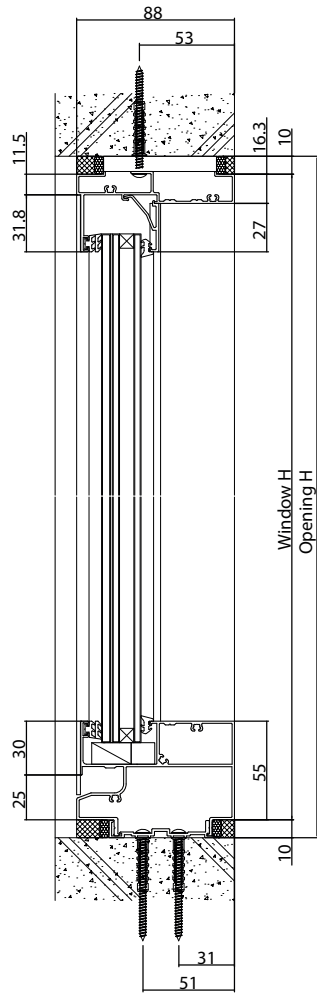


Horizontal section: Single fixed window

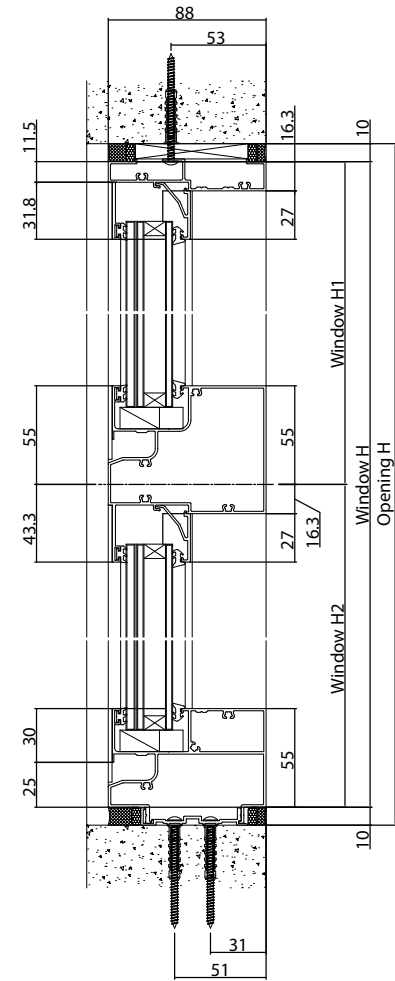


Horizontal section: Fixed window with mullion

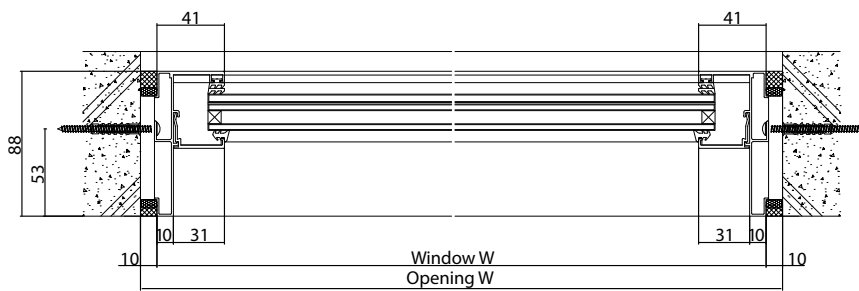




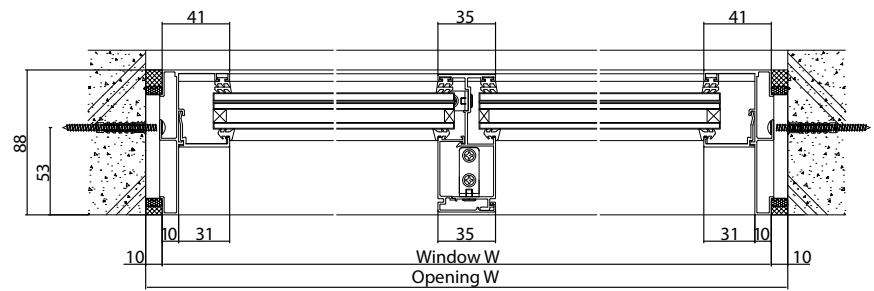
Vertical section: Single fixed window (IG unit)



Vertical section: Fixed window with transom (IG unit)



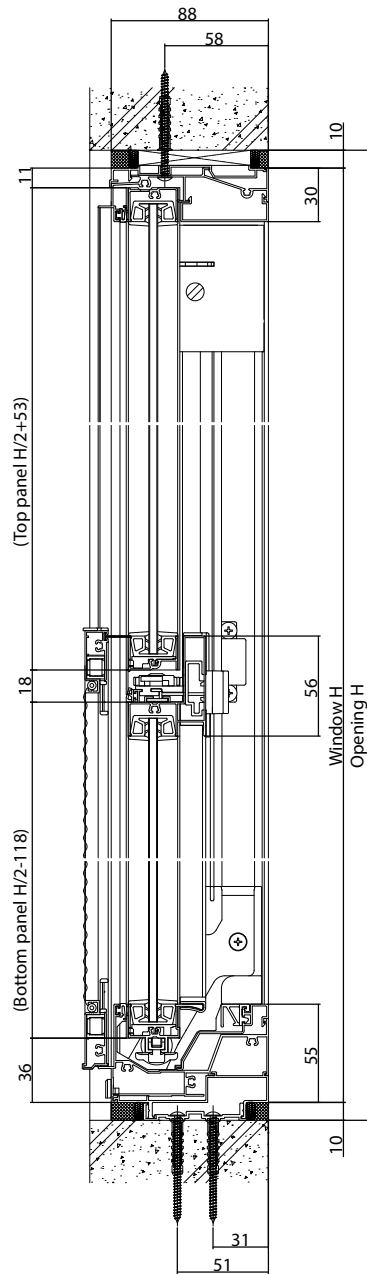
Horizontal section: Single fixed window (IG unit)



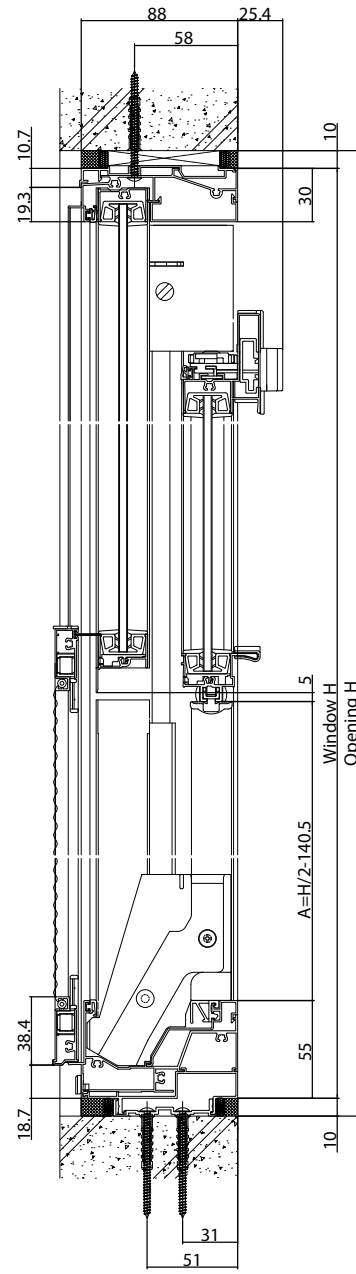
Horizontal section: Fixed window with mullion (IG unit)

# ATIS

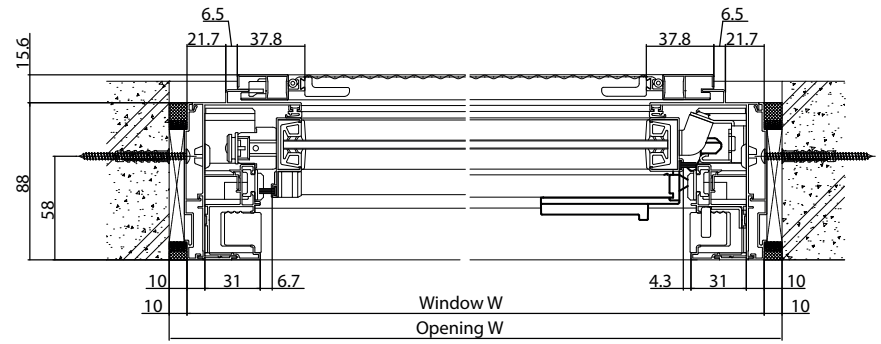
## TILT AND SLIDE



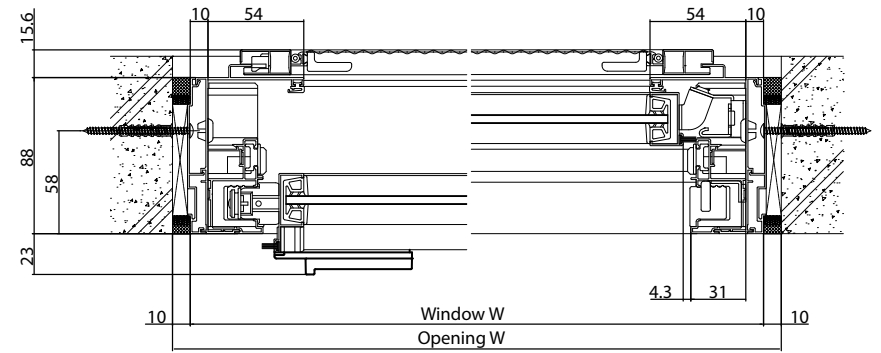
Vertical section: Tilt & Slide



Vertical section: Tilt & Slide open position



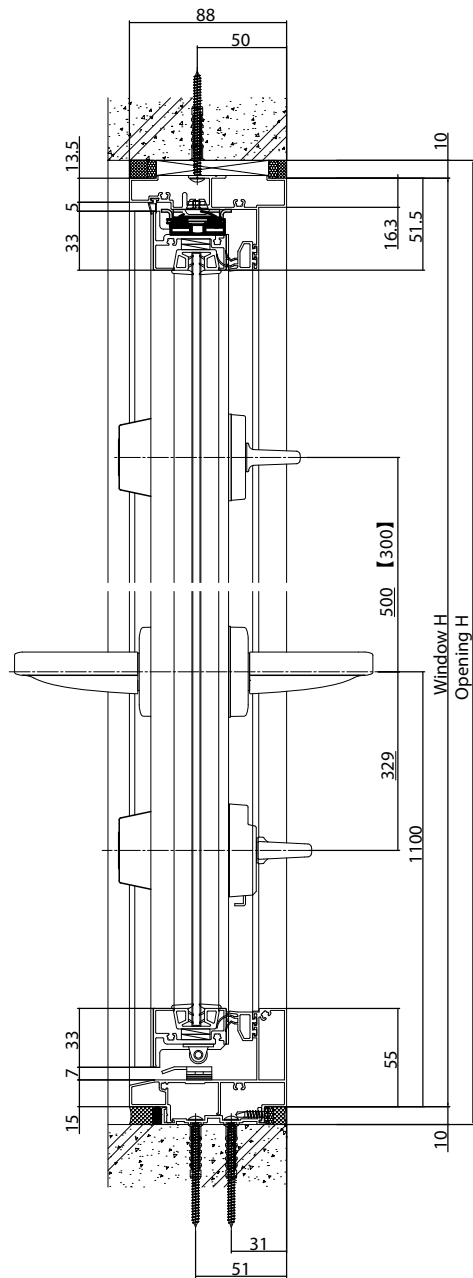
Horizontal section: Tilt & Slide



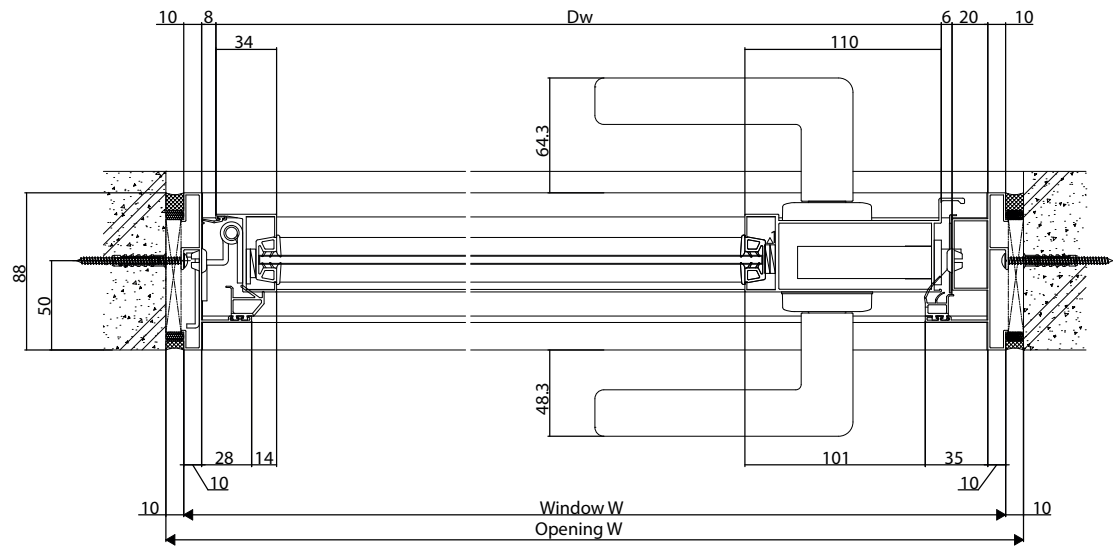
Horizontal section: Tilt & Slide open position

# ATIS

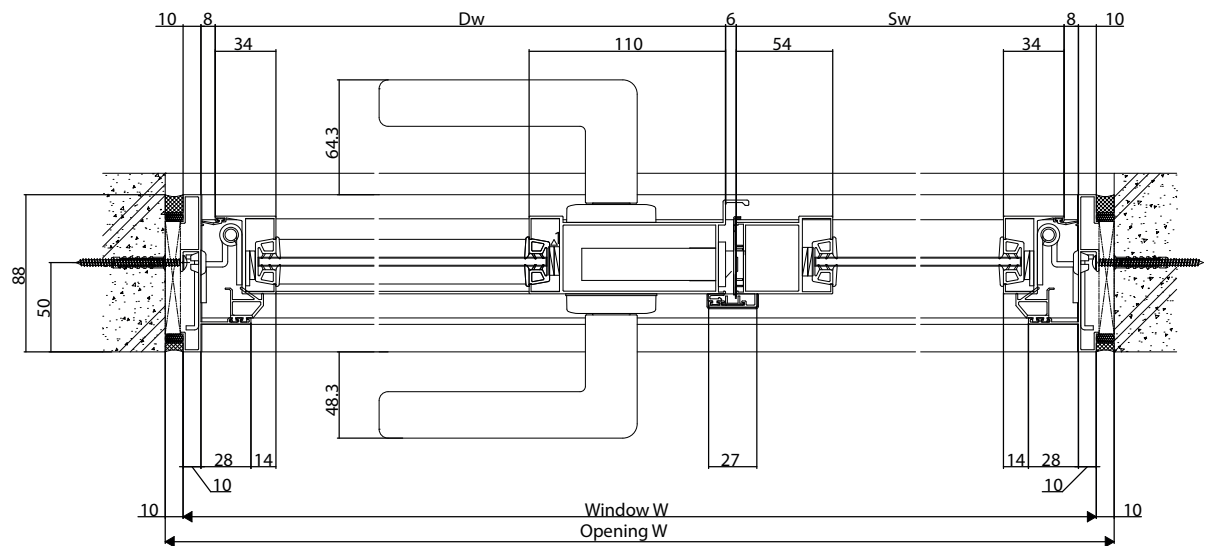
## OUT-SWING DOOR



Vertical section: Single and double Out-swing door



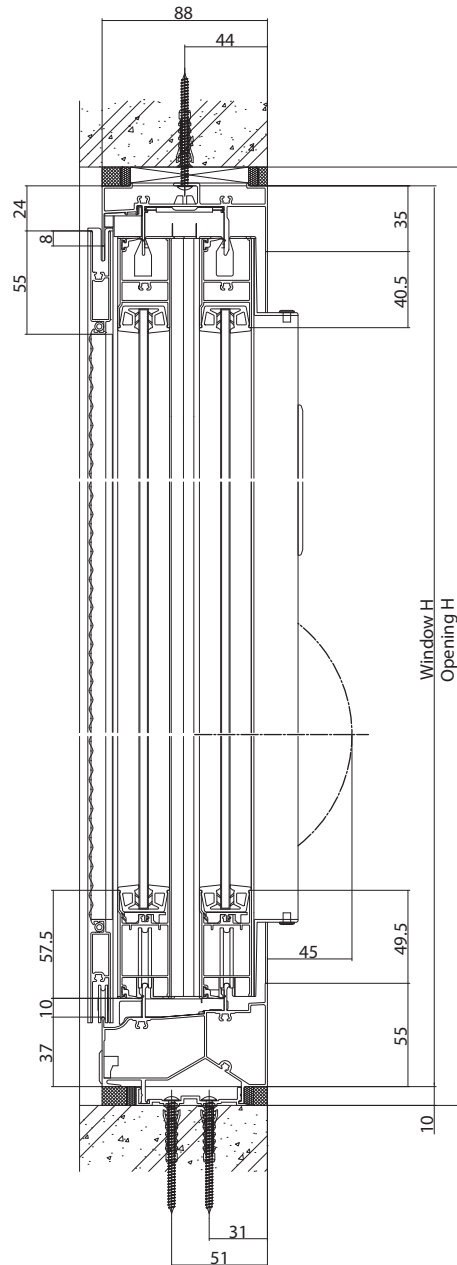
Horizontal section: Single Out-swing door



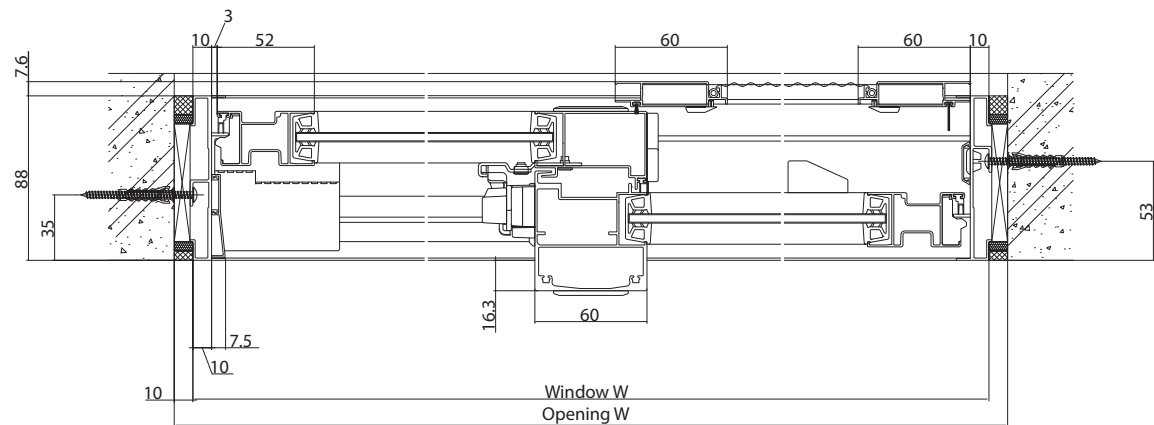
Horizontal section: Double Out-swing door

# ATIS

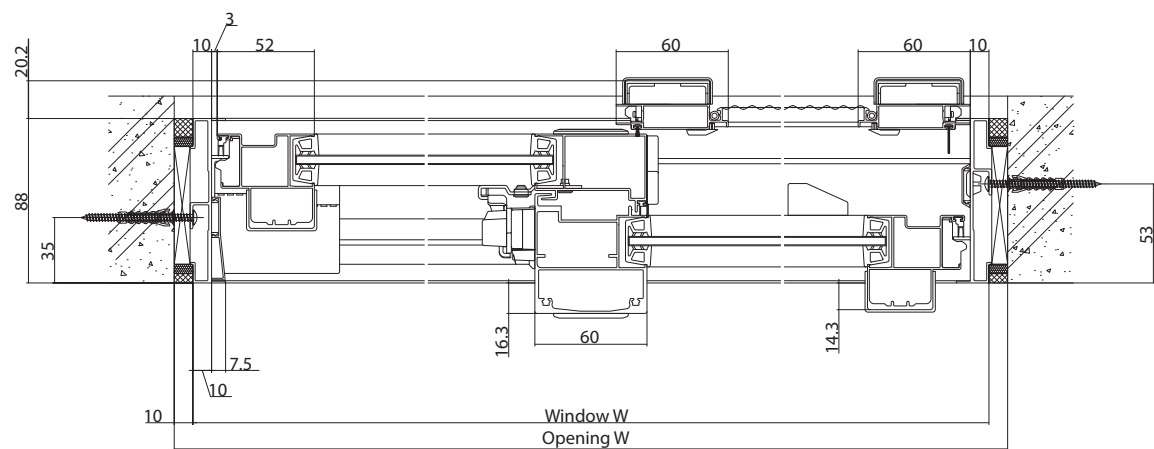
## ENTRANCE SLIDING DOOR (2P2T, 4P2T)



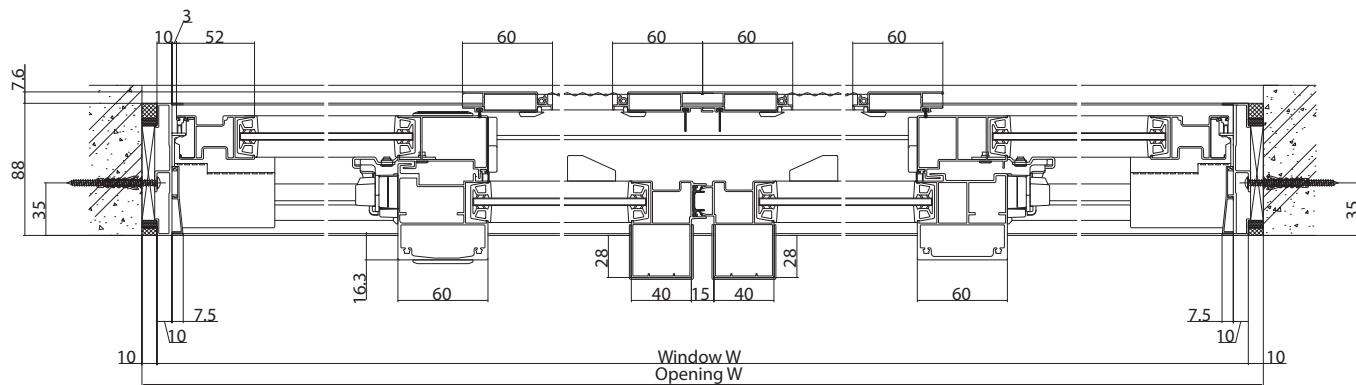
Vertical section: Entrance sliding door  
(2 and 4 panels on 2 tracks)  
Type B, C with TL-X screen



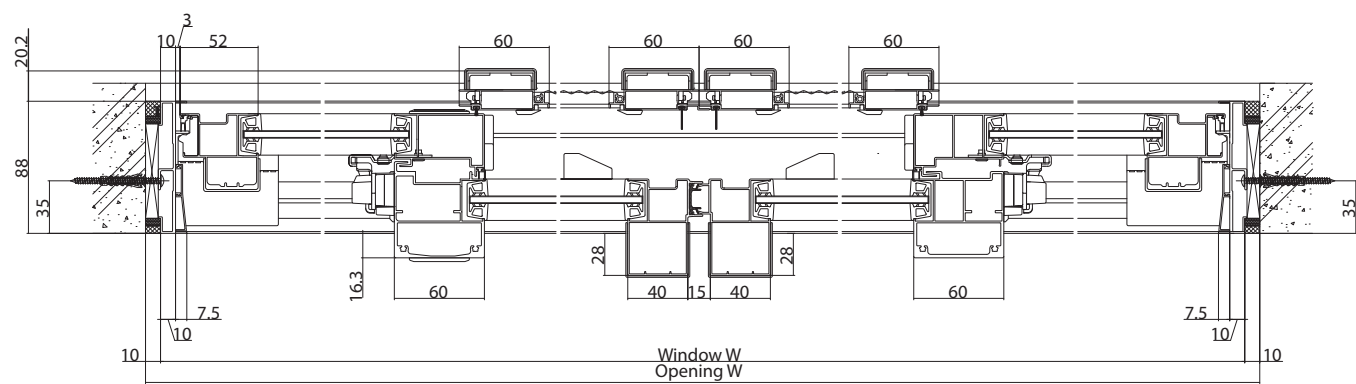
Horizontal section: Entrance sliding door (2 panels on 2 tracks) Type B with TL-X screen



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



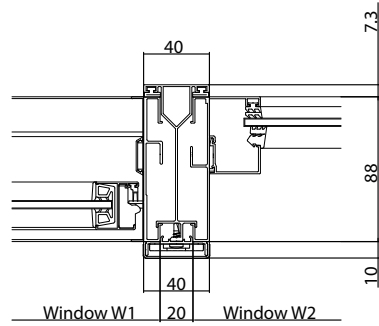
Horizontal section: Entrance sliding door (4 panels on 2 tracks) Type B with TL-X screen



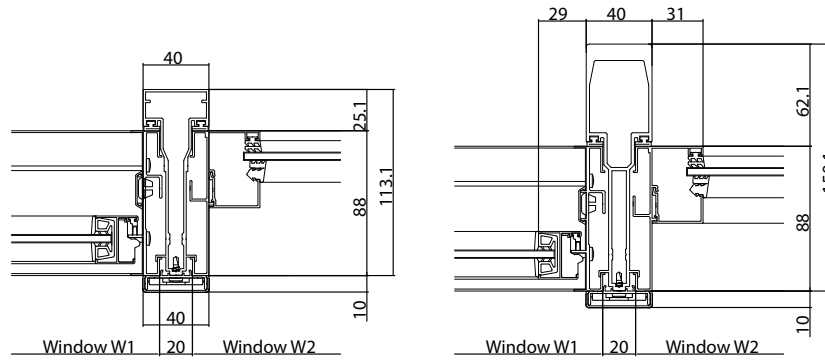
Horizontal section: Entrance sliding door (4 panels on 2 tracks) Type C with TR-X screen

# ATIS

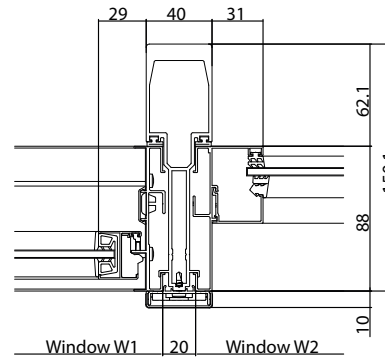
## TRANSOM & MULLION



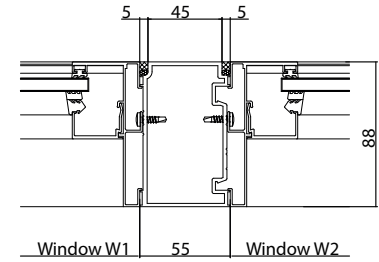
Mullion 180 Type A



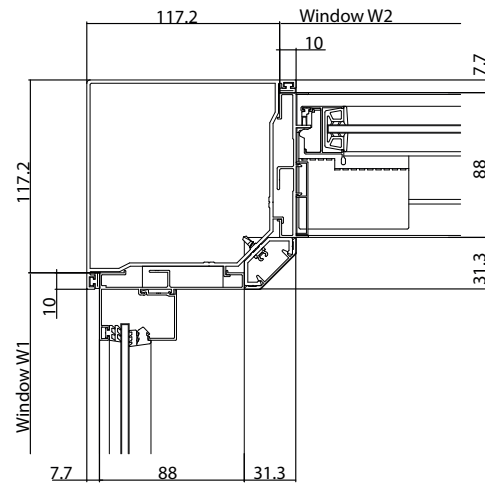
Mullion 180 Type B



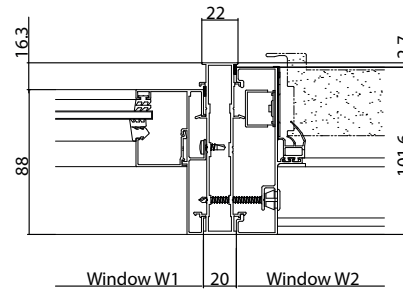
Mullion 180 Type C



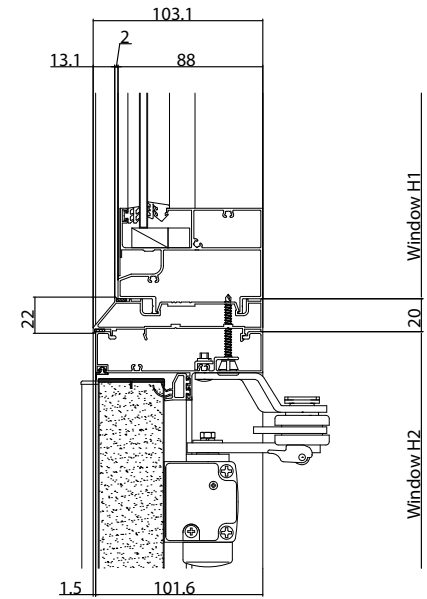
Reinforcement Mullion 180



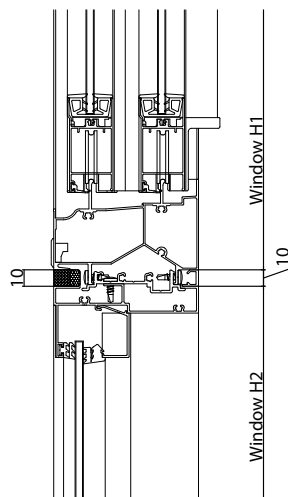
Corner mullion



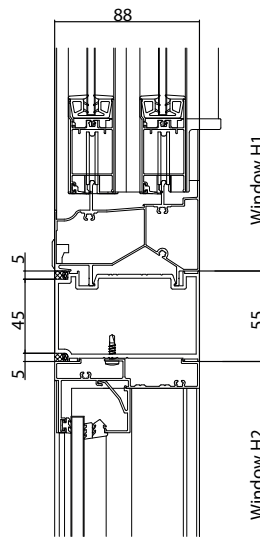
Mullion 180 (101 mm)



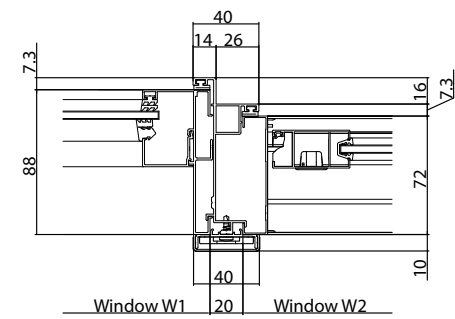
Transom (101 mm)



Transom Type A (88 mm)



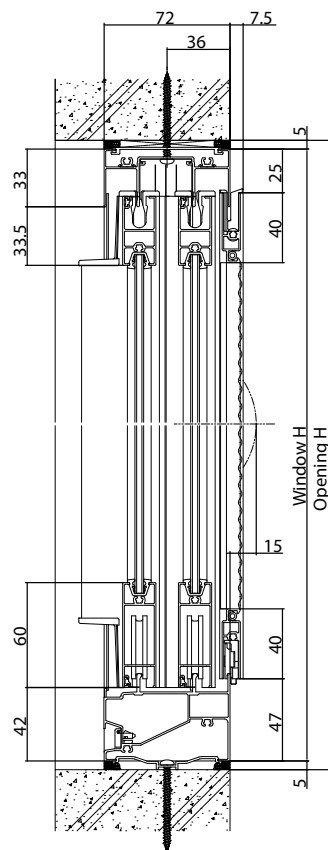
Reinforcement Transom



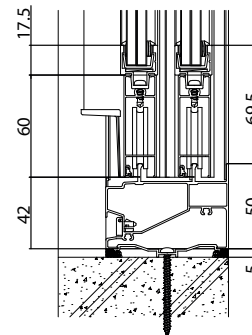
Mullion 180 for WE combination

# WE PLUS

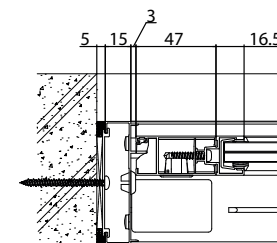
## SLIDING (2P2T, 4P2T)



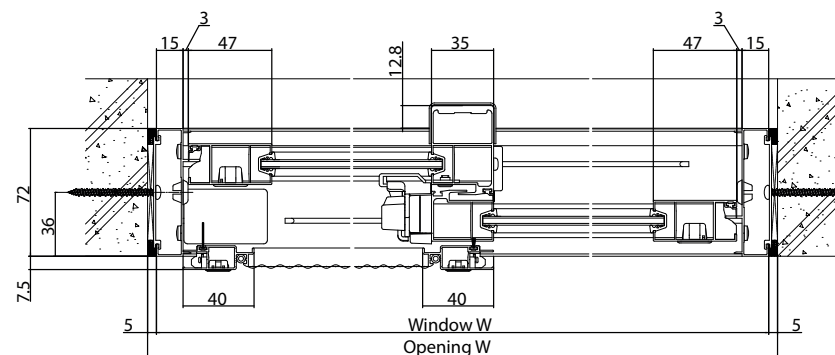
Vertical section: Sliding window  
(2 and 4 panels on 2 tracks)



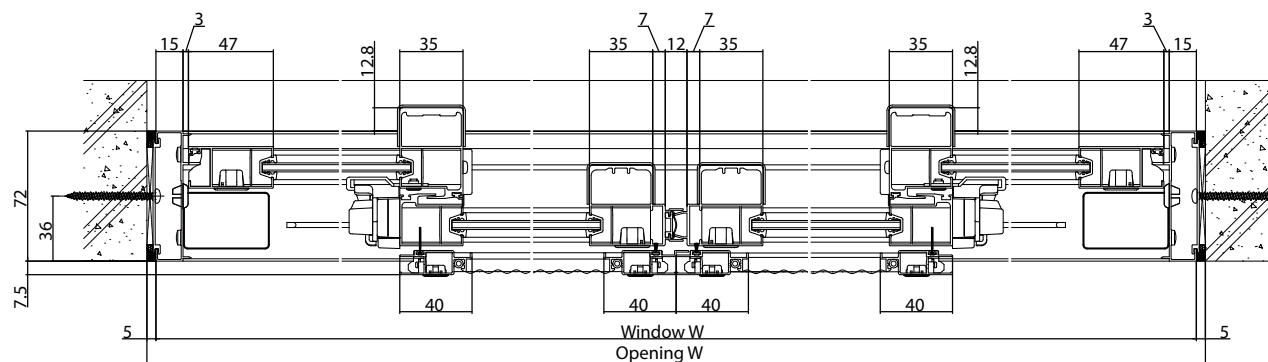
With laminated glass



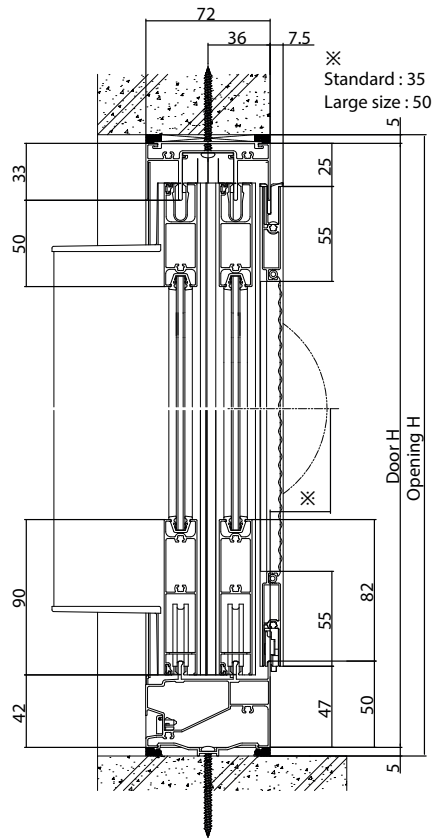
With laminated glass



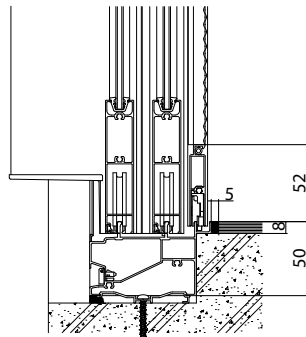
Horizontal section: Sliding window (2 panels on 2 tracks)



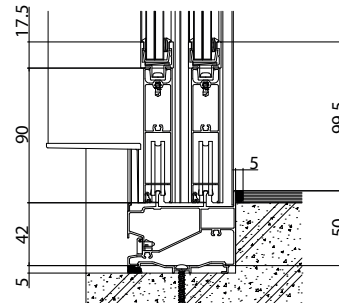
Horizontal section: Sliding window (4 panels on 2 tracks)



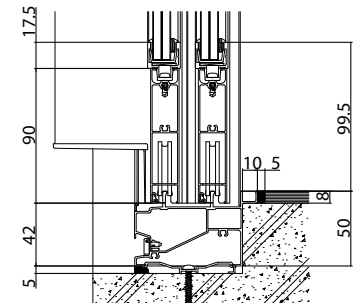
Vertical section: Sliding door (2 and 4 panels on 2 tracks)



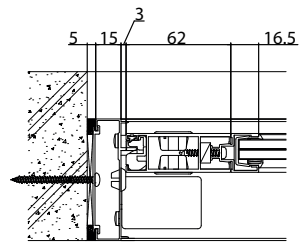
For floor



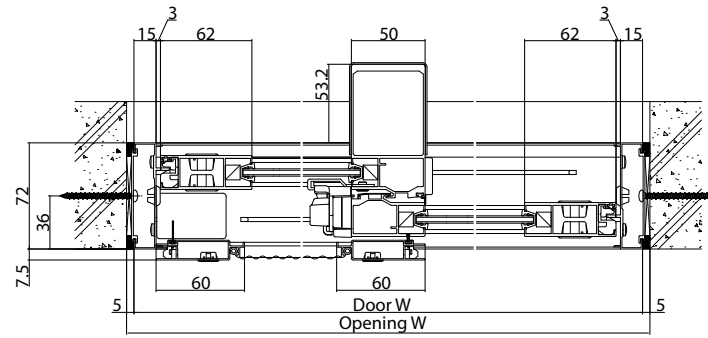
With laminated glass



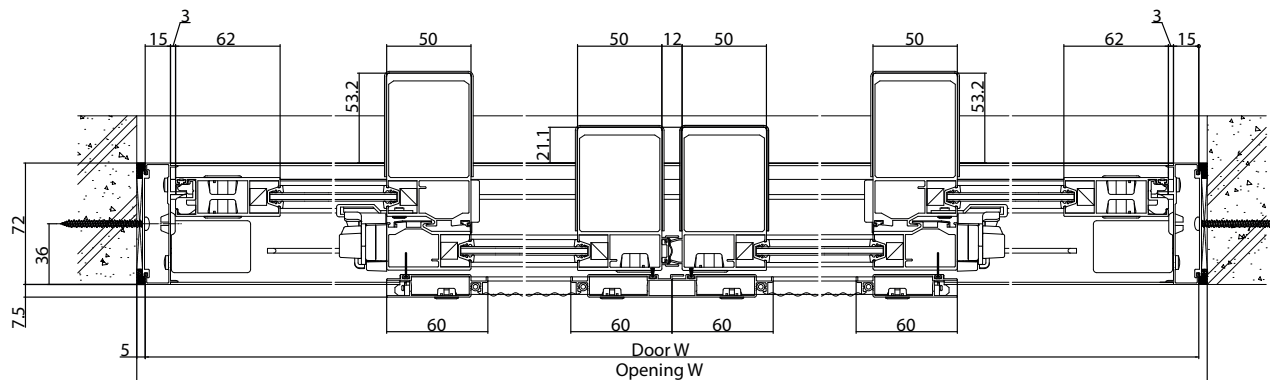
For floor with laminated glass



With laminated glass



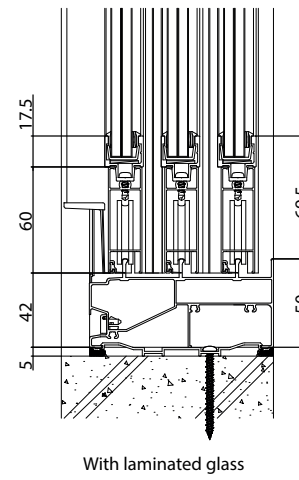
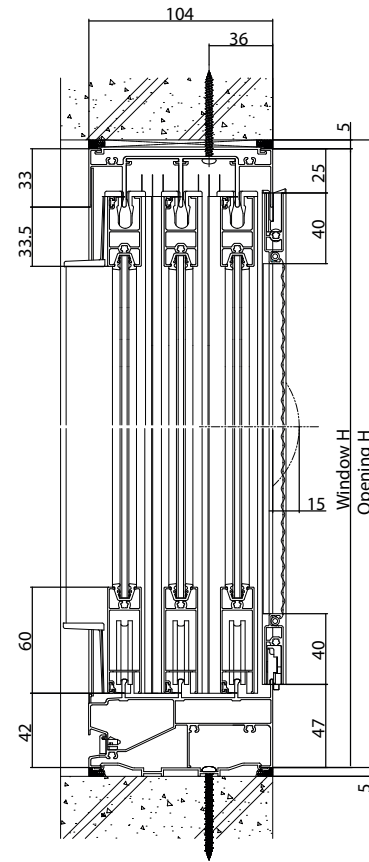
Horizontal section: Sliding door (2 panels on 2 tracks)



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

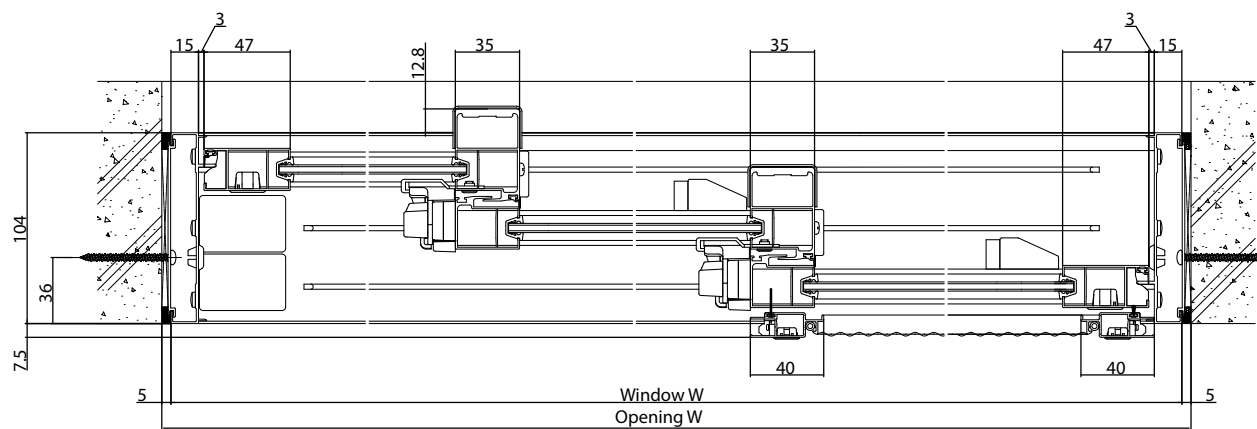
# WE PLUS

## SLIDING (3P3T, 6P3T)

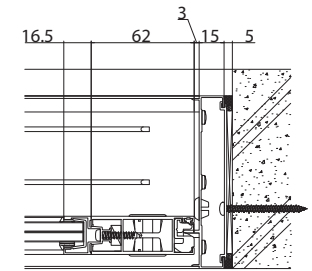
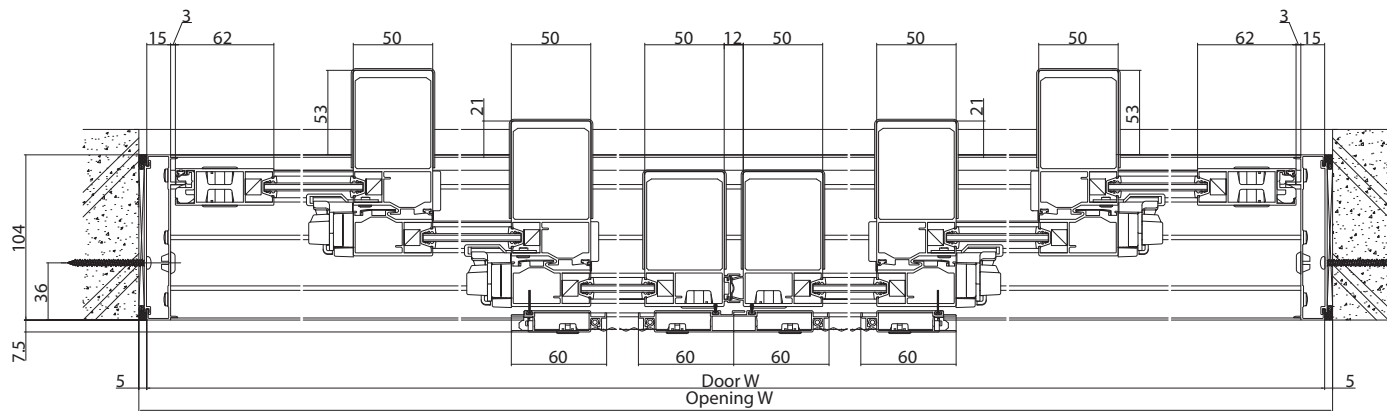
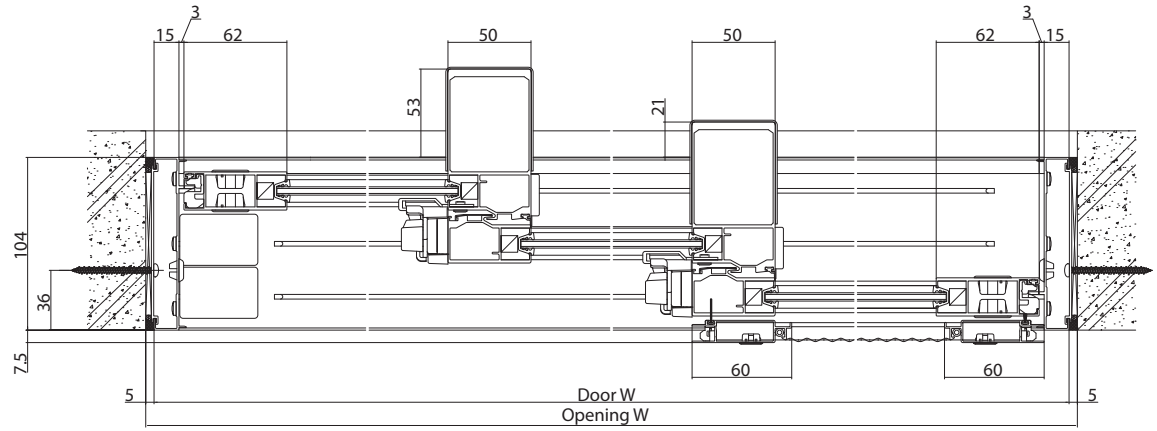
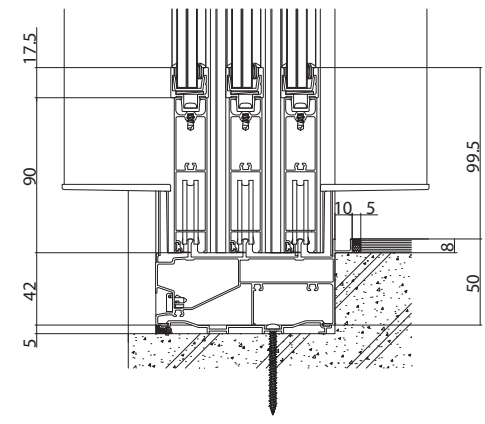
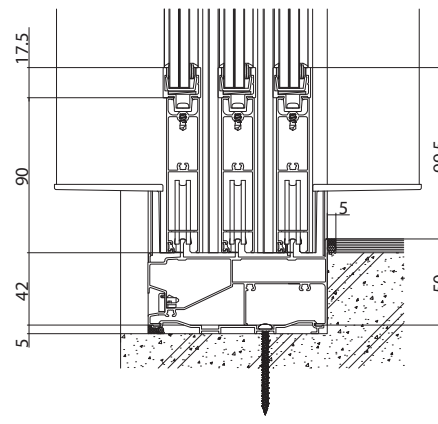
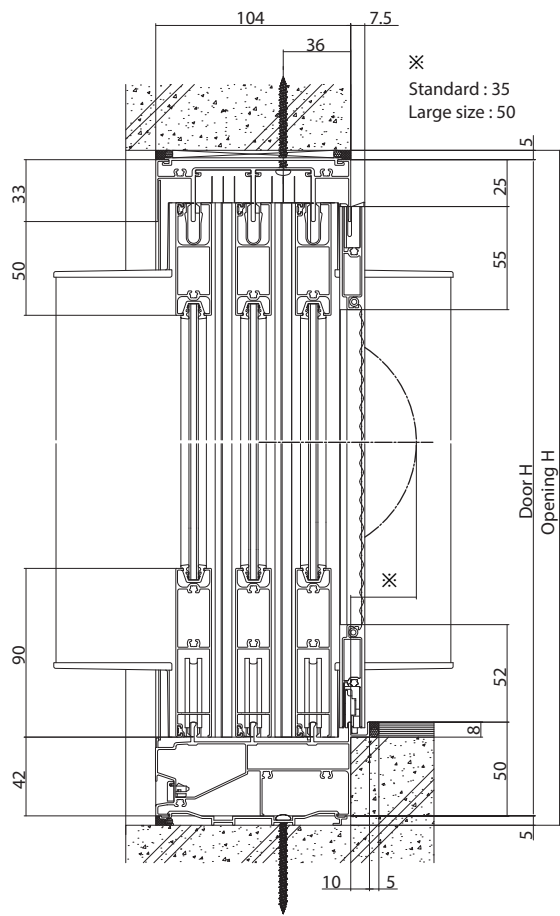


With laminated glass

Vertical section: Sliding window (3 panels on 3 tracks)



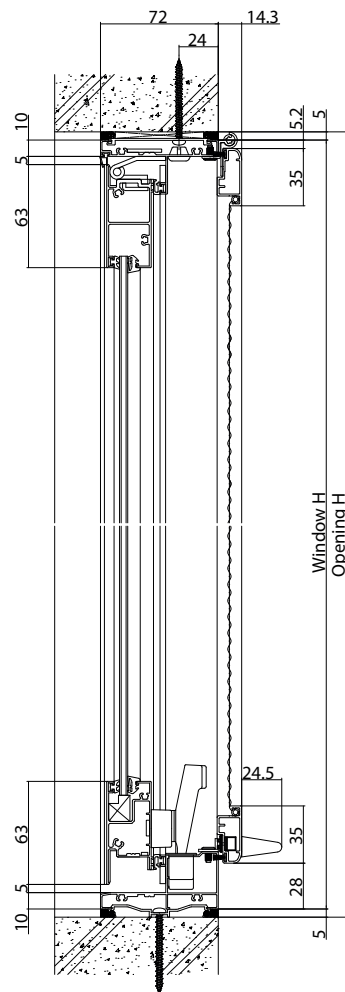
Horizontal section: Sliding window (3 panels on 3 tracks)



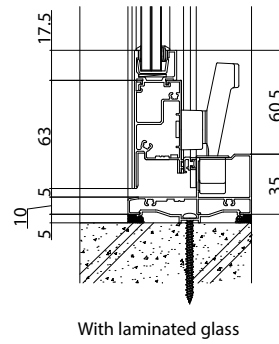
Horizontal section: Sliding door (6 panels on 3 tracks)

# WE PLUS

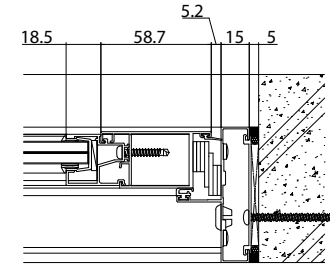
## AWNING WINDOW



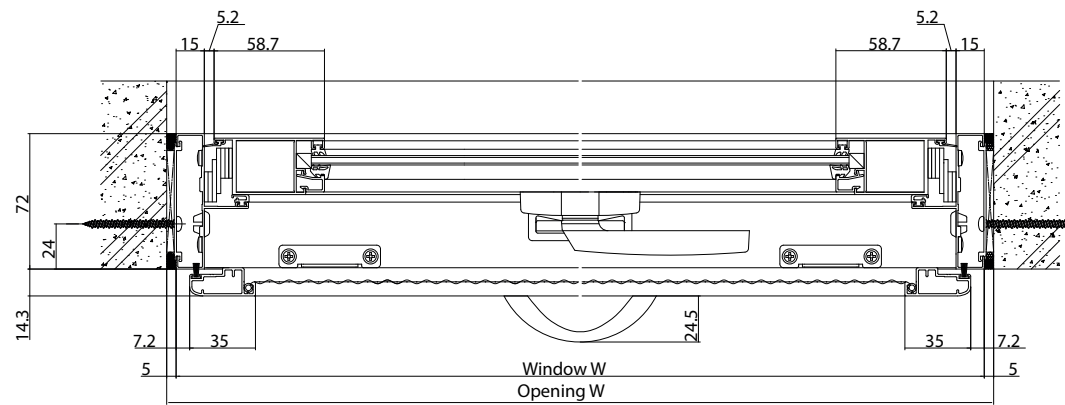
Vertical section: Awning window (single lock)



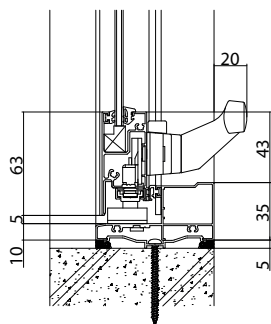
With laminated glass



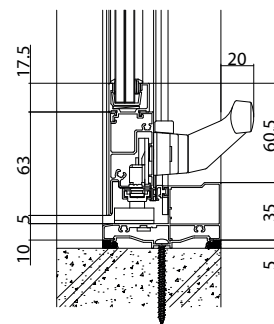
With laminated glass



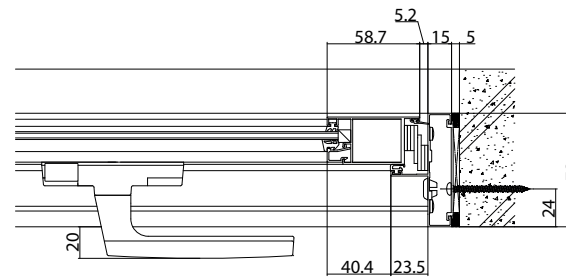
Horizontal section: Awning window (single lock)



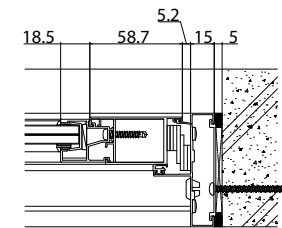
Multi lock bottom detail



With laminated glass



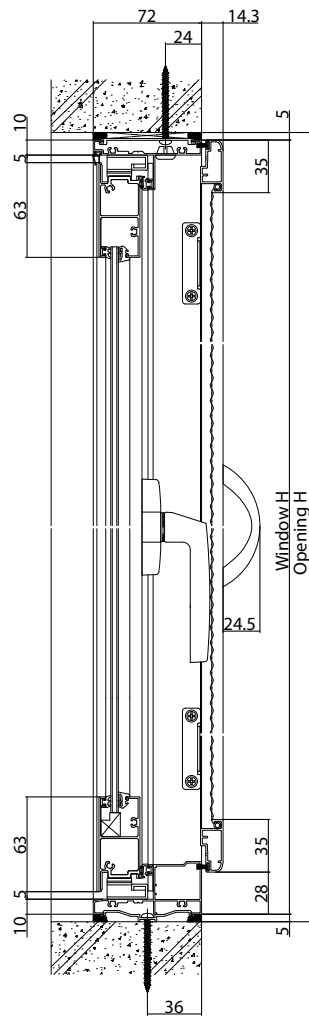
Multi lock jamb detail



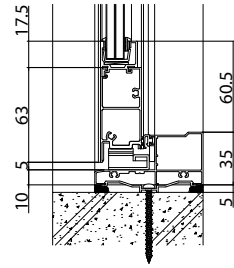
With laminated glass

# WE PLUS

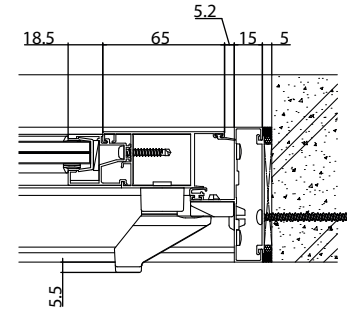
## CASEMENT WINDOW



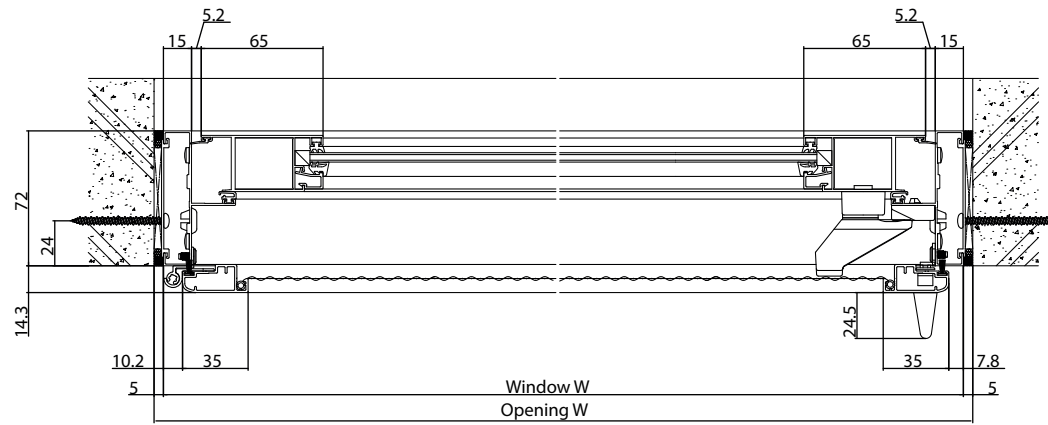
Vertical section: Casement window (Single lock)



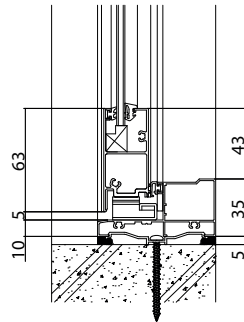
With laminated glass



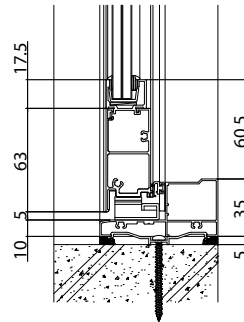
With laminated glass



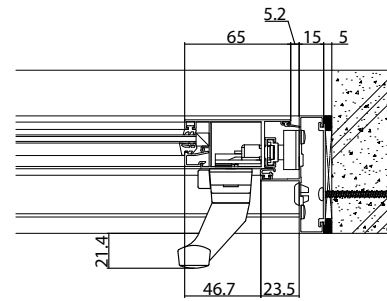
Horizontal section: Casement window (Single lock)



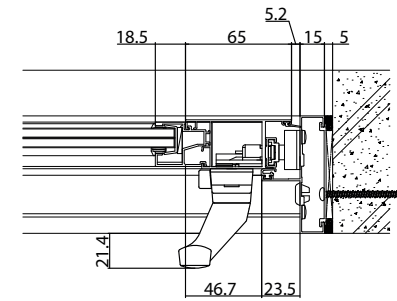
Multi lock bottom detail



With laminated glass



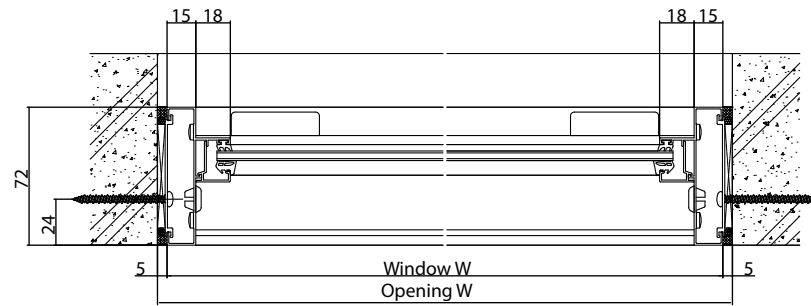
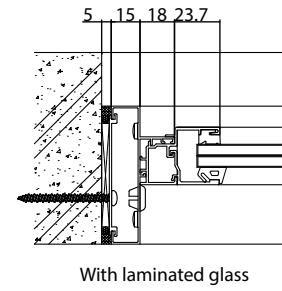
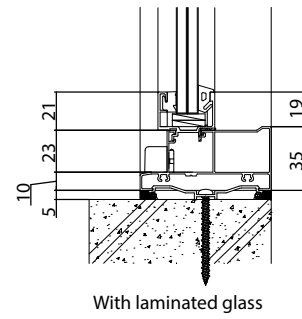
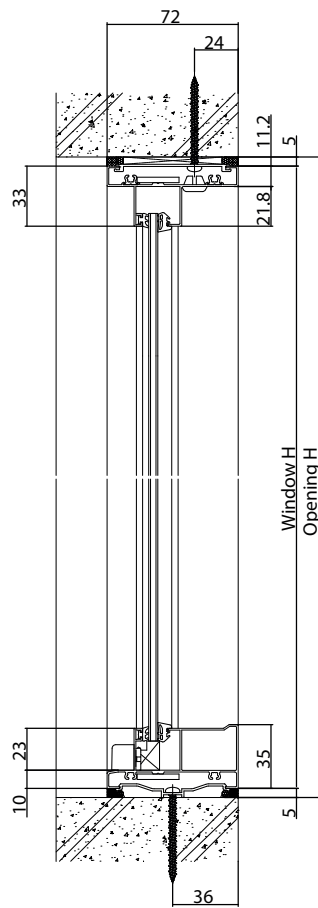
Multi lock jamb detail



With laminated glass

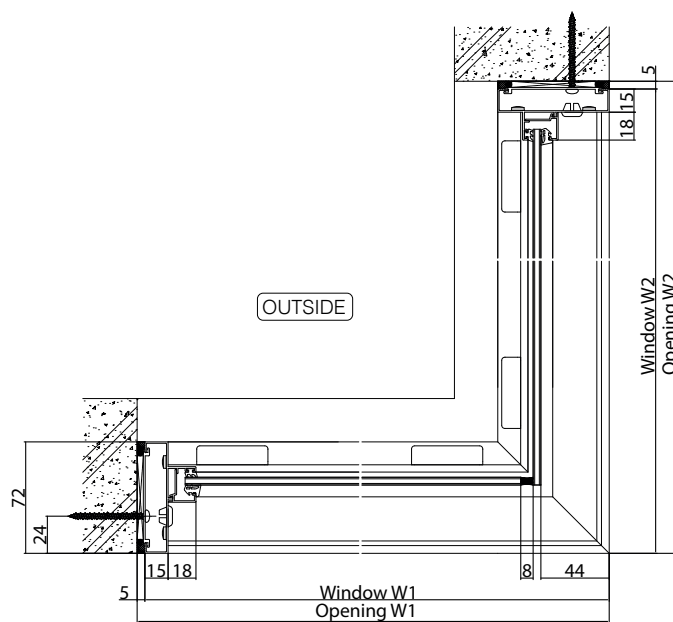
# WE PLUS

## FIXED WINDOW

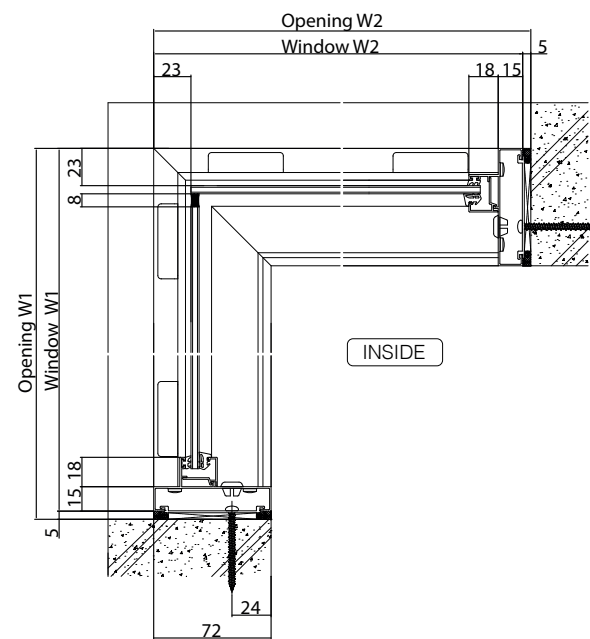


Horizontal section: Fixed window

Vertical section: Single and corner fixed



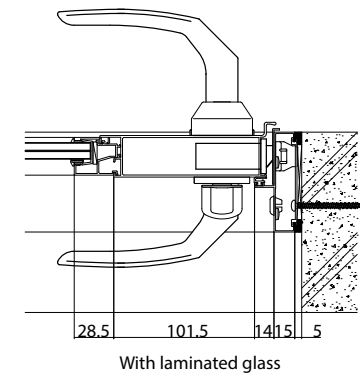
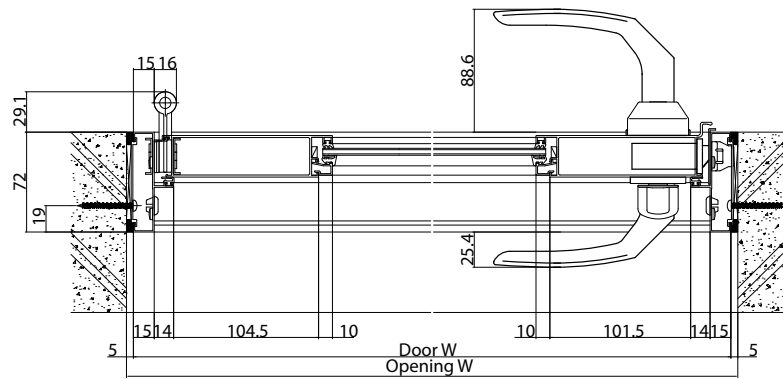
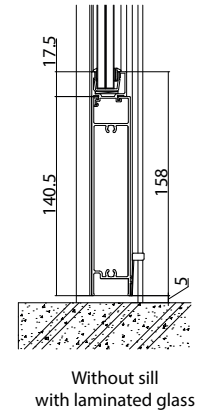
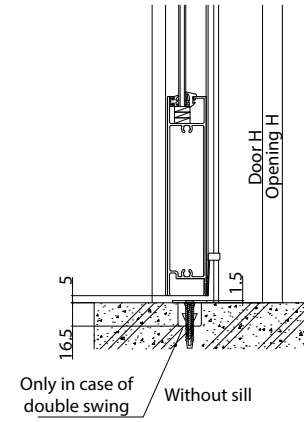
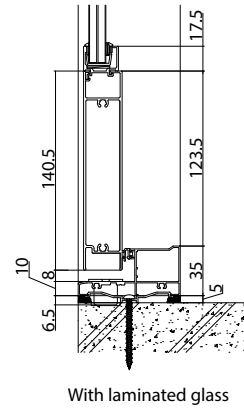
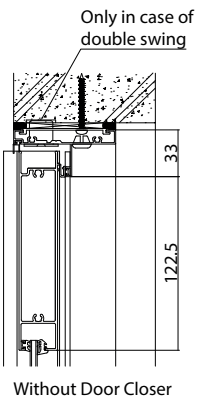
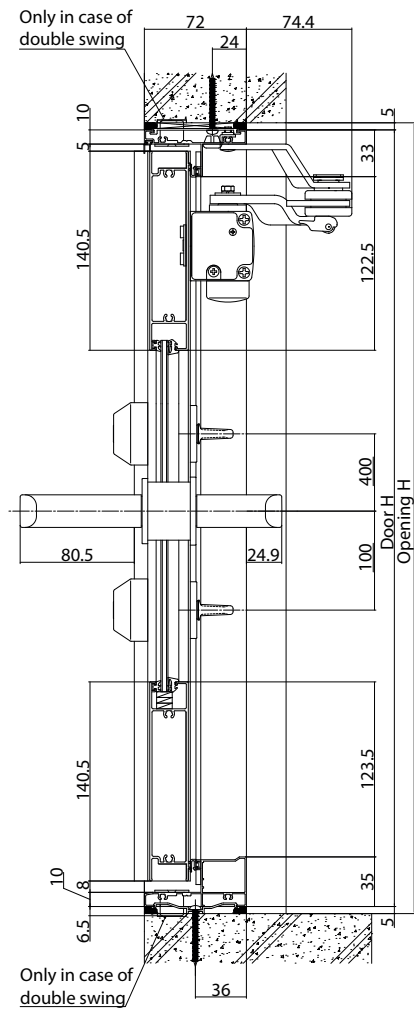
Horizontal section: Inward fixed



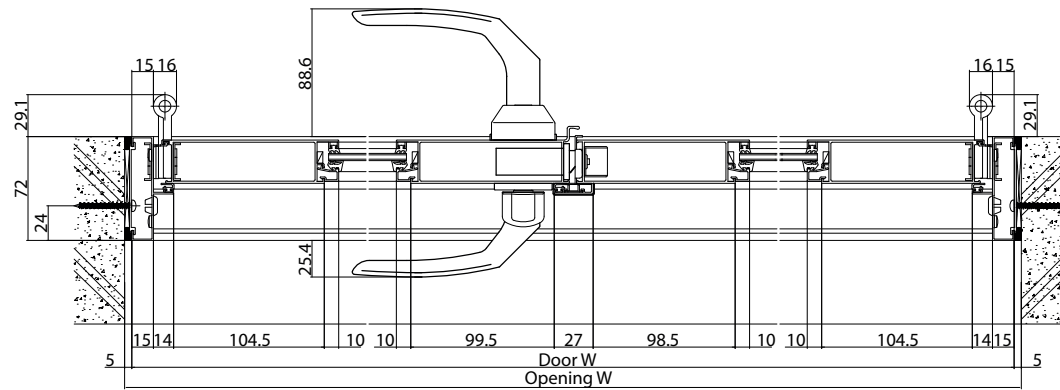
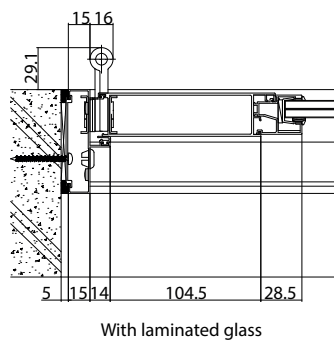
Horizontal section: Outward fixed

# WE PLUS

## OUT-SWING DOOR



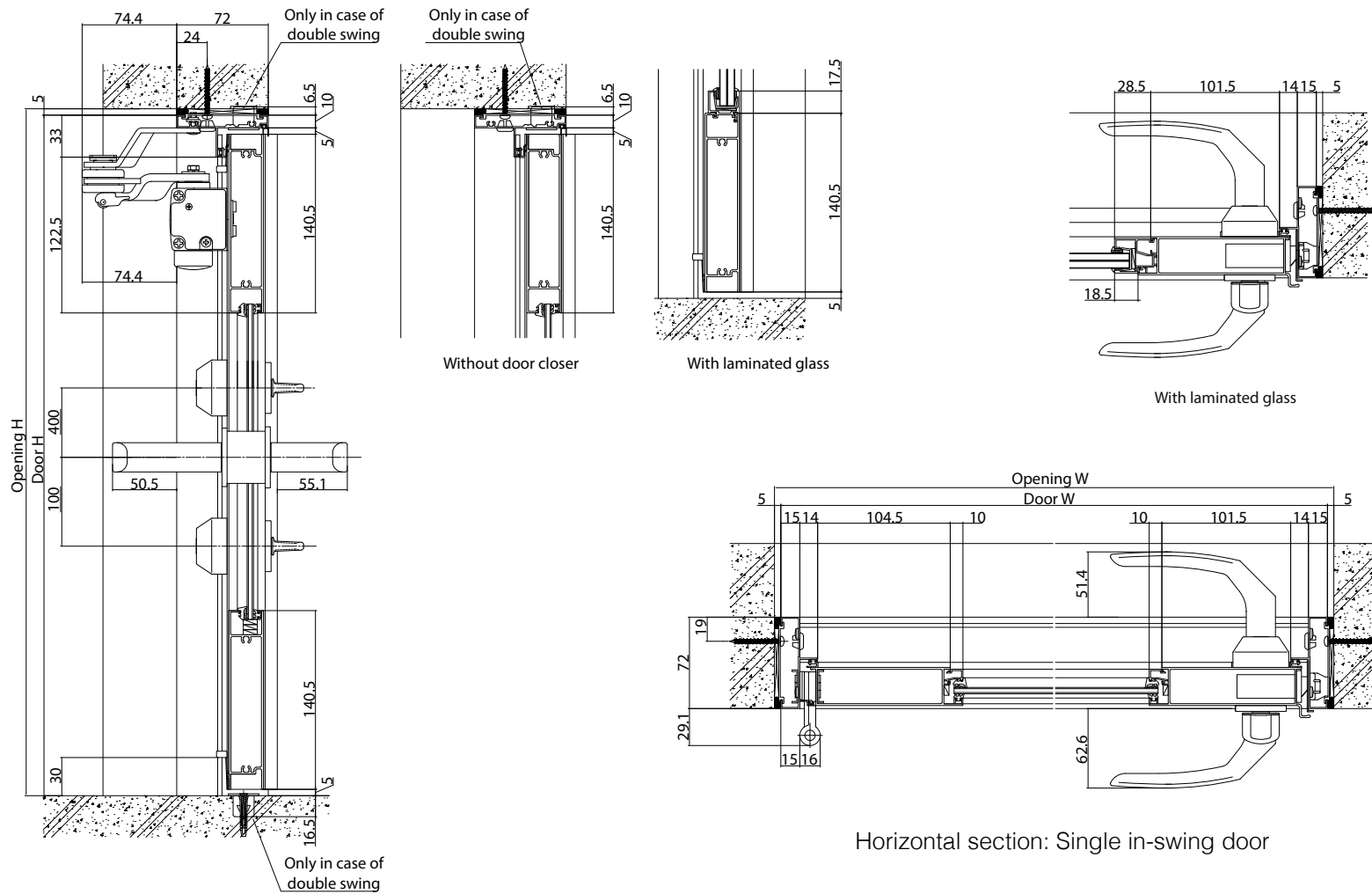
Vertical section: Single & Double out-swing door



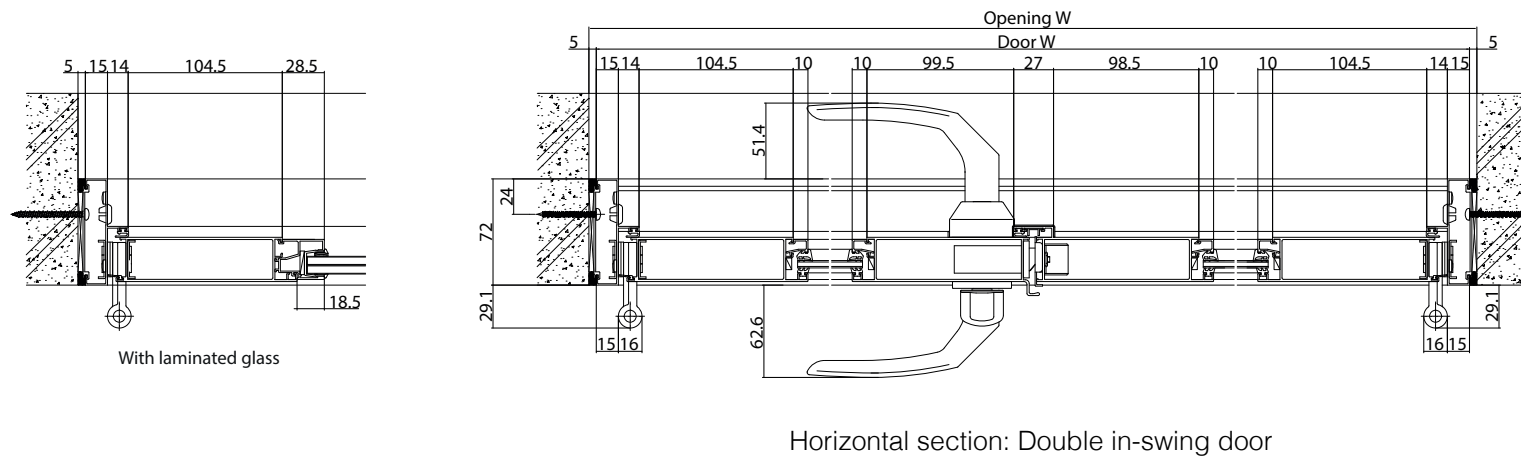
Horizontal section: Double out-swing door

# WE PLUS

## IN-SWING DOOR



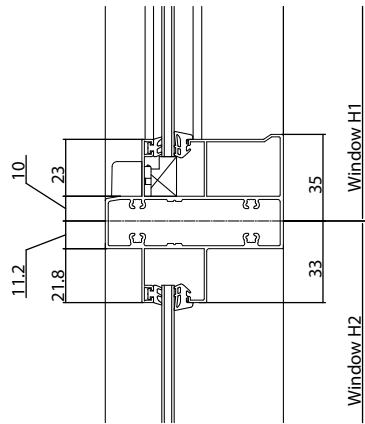
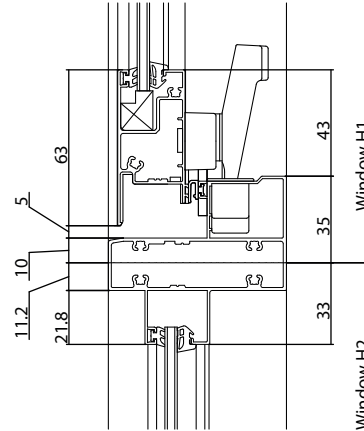
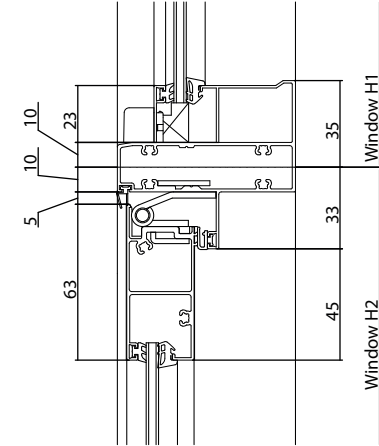
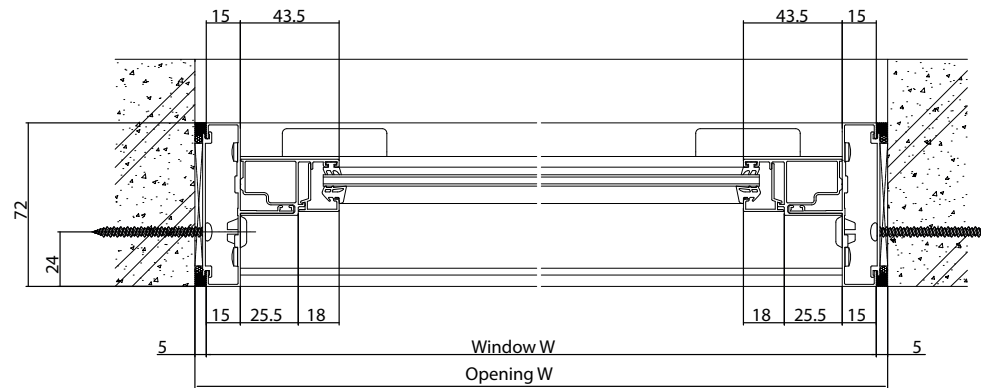
Vertical section: Single & Double in-swing door



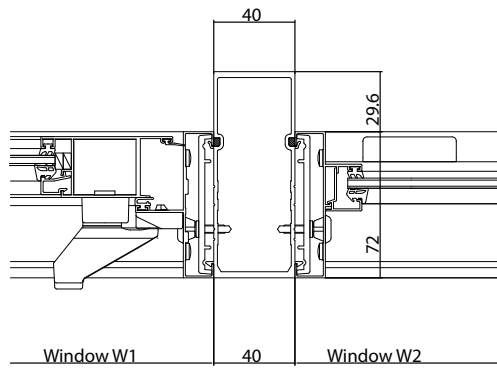
Horizontal section: Double in-swing door

## WE PLUS

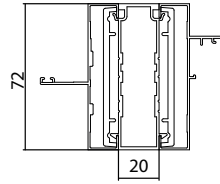
## TRANSOM &amp; MULLION

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

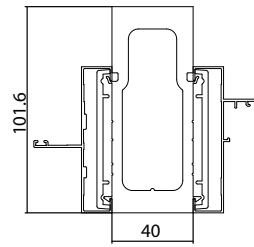
Horizontal section: Combination fixed window



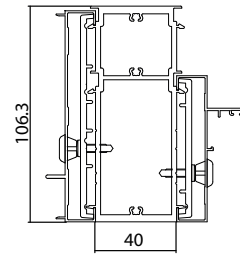
Mullion (middle)



Mullion (small)

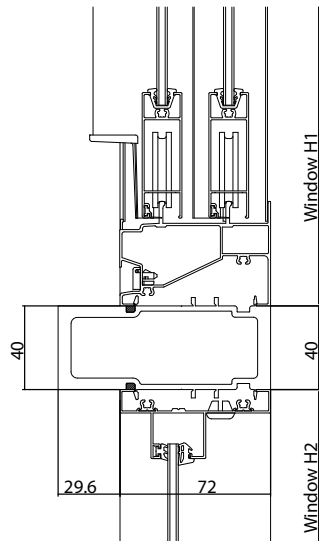


Mullion (large)

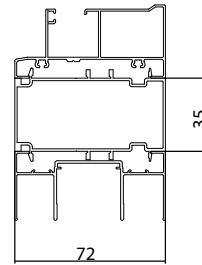


Mullion (for 3 tracks)

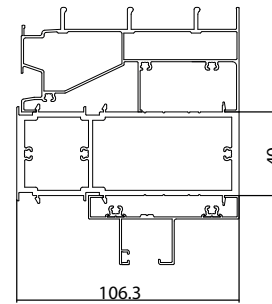
Mullion 180°



Transom (Large)

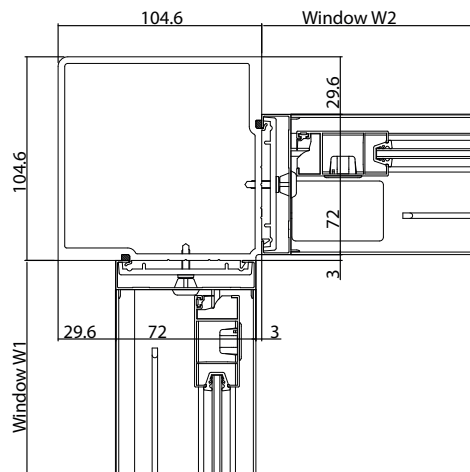


Transom (Small)

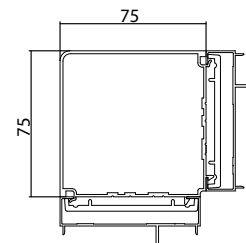


Transom (for 3 tracks)

Transom



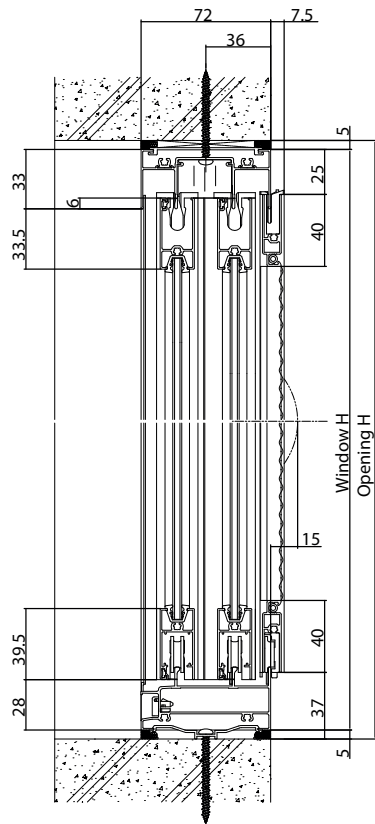
Corner mullion



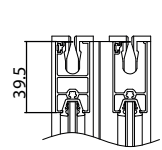
Corner mullion (small)

## WE 70

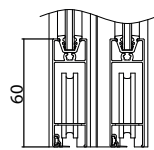
## SLIDING (2P2T, 4P2T, SFS 3P2T)



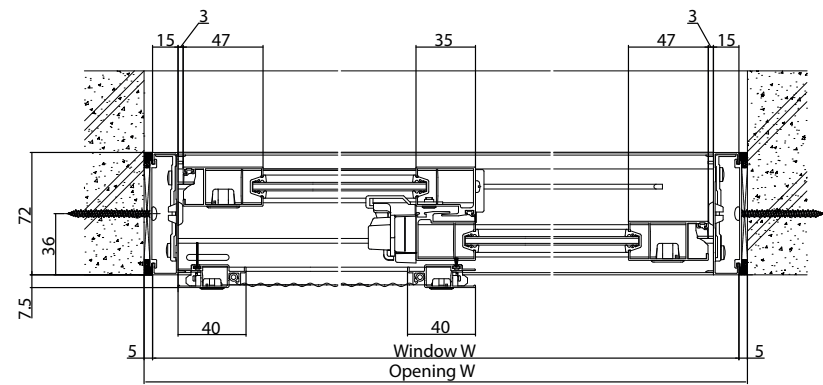
Vertical section: Sliding window  
(2, 4 and SFS 3 panels on 2 tracks)



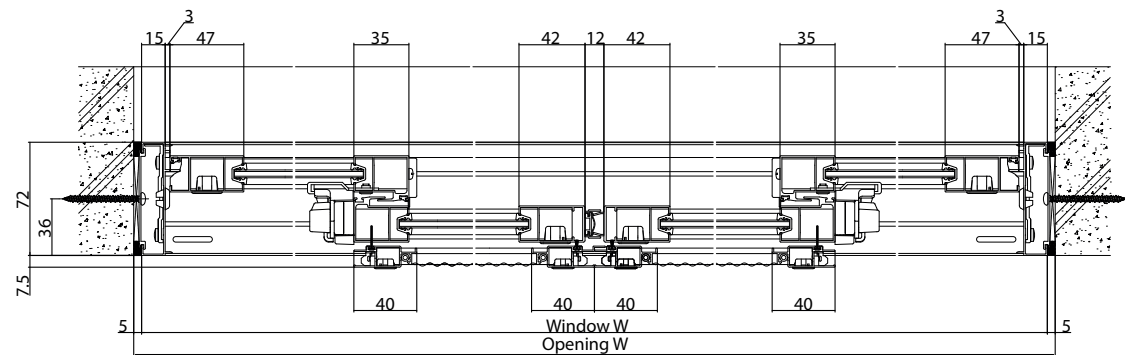
In case of SFS 3 panels



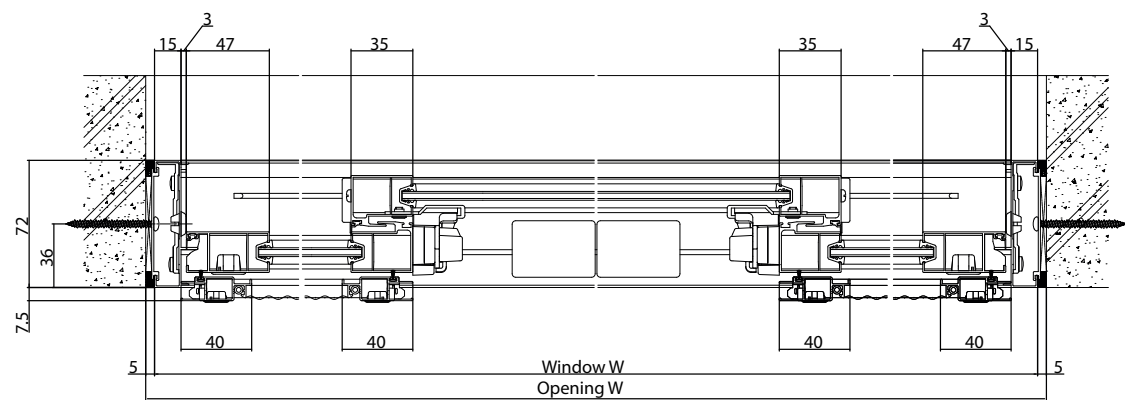
In case of SFS 3 panels  
with  $W > 3200$



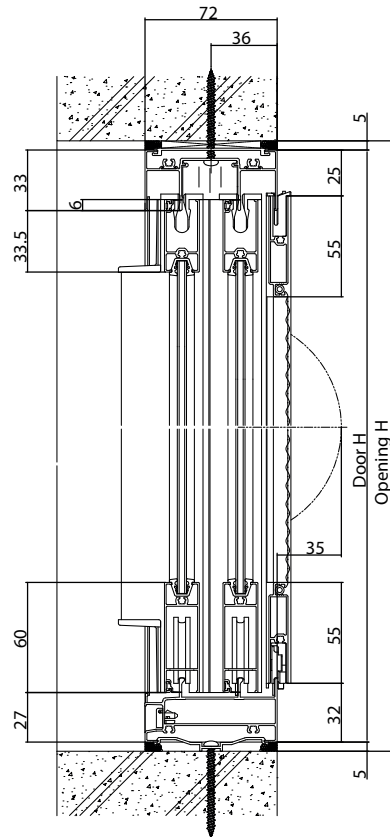
Horizontal section: Sliding window (2 panels on 2 tracks)



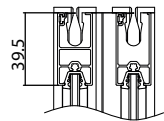
Horizontal section: Sliding window (4 panels on 2 tracks)



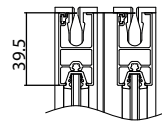
Horizontal section: Sliding window (SFS 3 panels on 2 tracks)



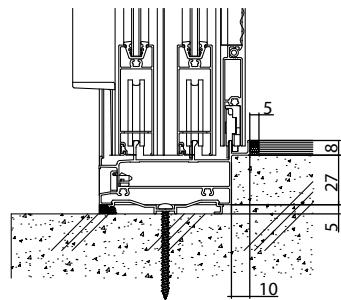
Vertical section: Sliding door  
(2, 4 and SFS 3 panels on 2 tracks)



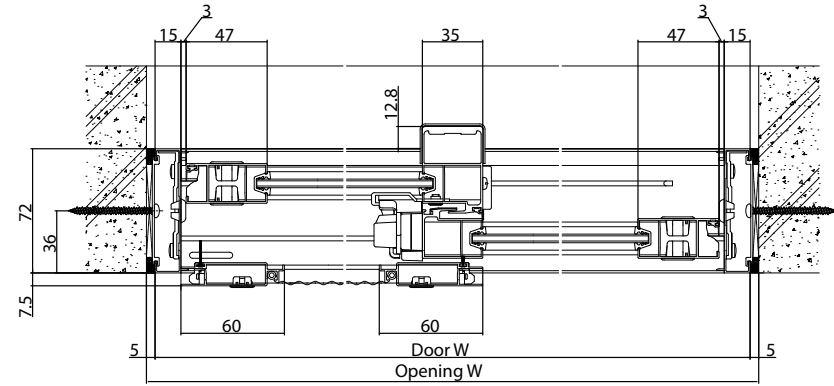
In case of SFS 3 panels



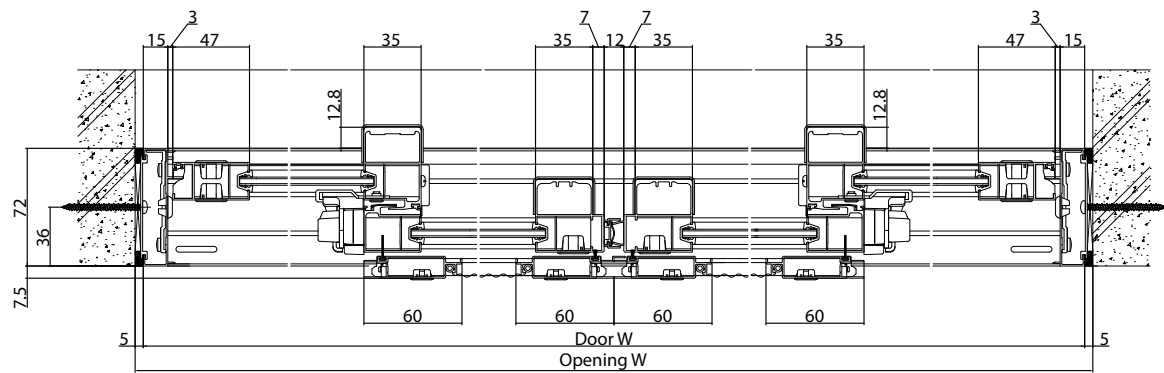
In case of W > 2600



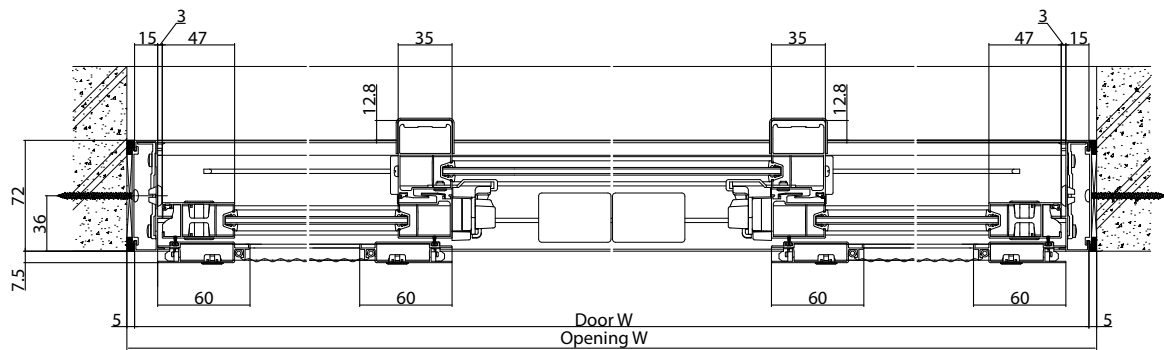
In case of floor finish sill



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



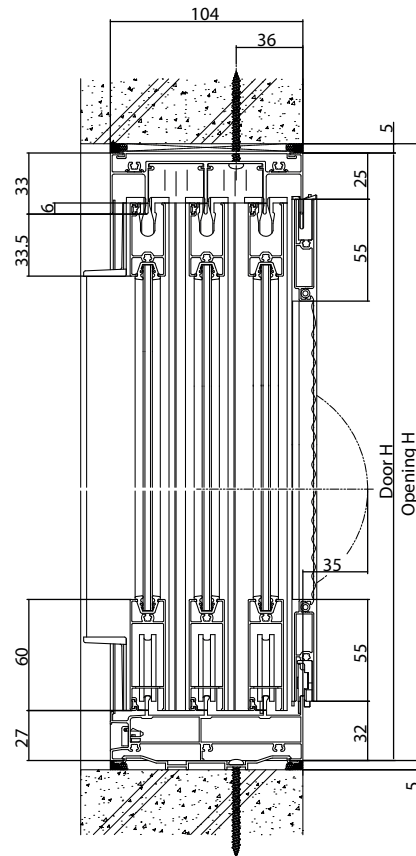
Horizontal section: Sliding door (4 panels on 2 tracks)



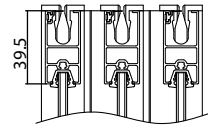
Horizontal section: Sliding door (SFS 3 panels on 2 tracks)

## WE 70

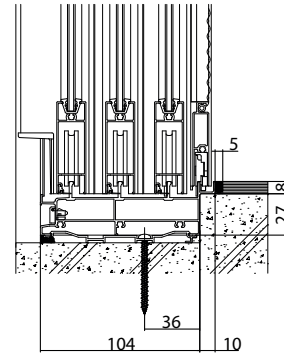
## SLIDING (3P3T, 6P3T)



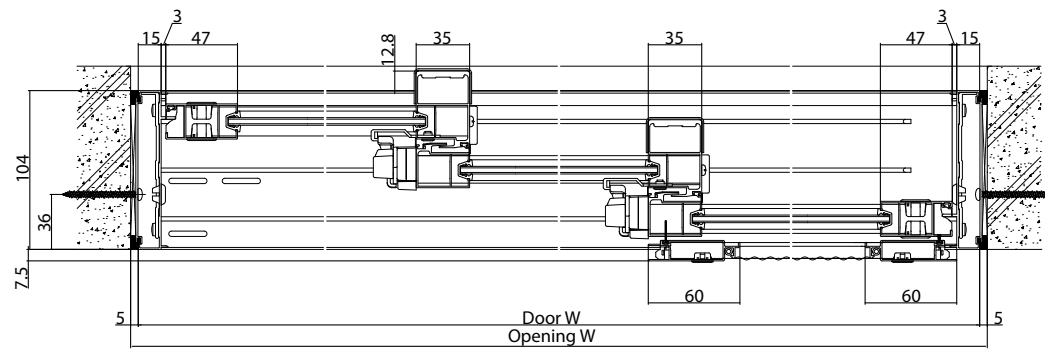
Vertical section: Sliding door  
(3 and 6 panels on 3 tracks)



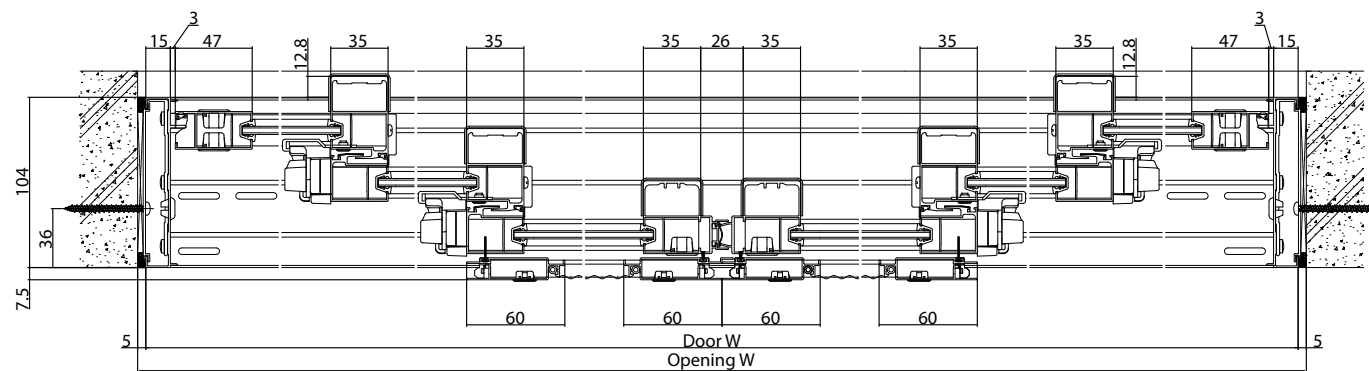
In case of 3 panels  
with  $W > 3600$



In case of floor finish sill



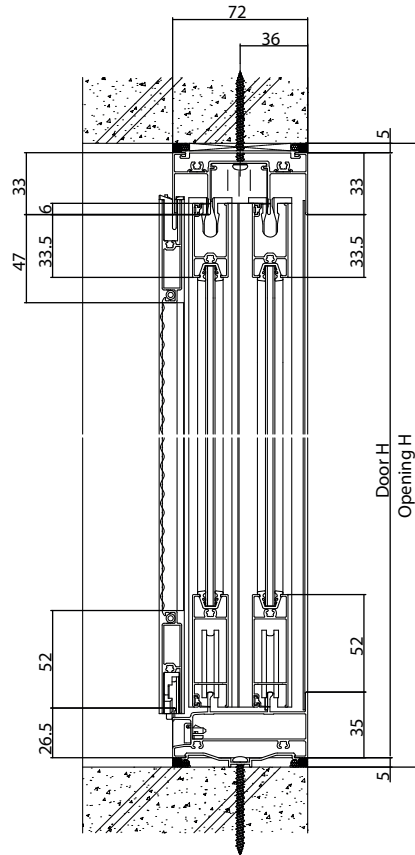
Horizontal section: Sliding door (3 panels on 3 tracks)



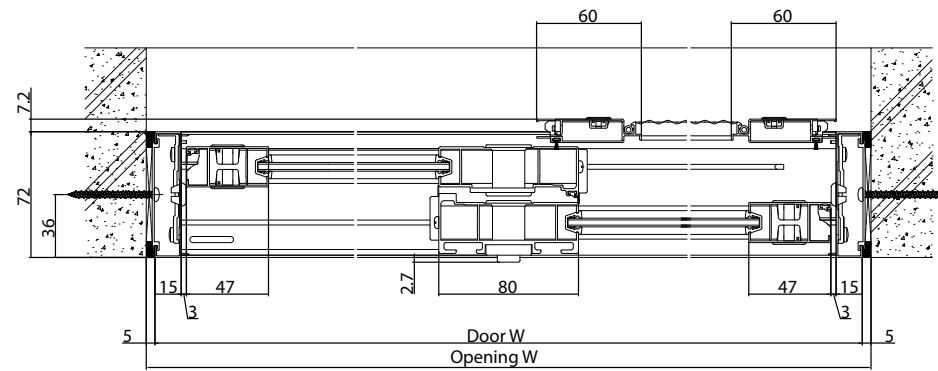
Horizontal section: Sliding door (6 panels on 3 tracks)

# WE 70

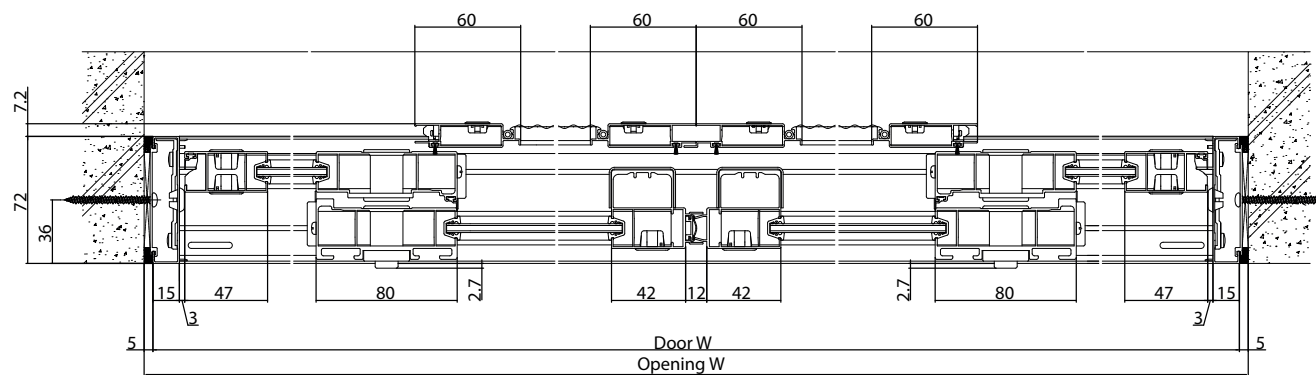
## ENTRANCE SLIDING (2P2T, 4P2T)



Vertical section: Entrance sliding door  
(2 and 4 panels on 2 tracks)



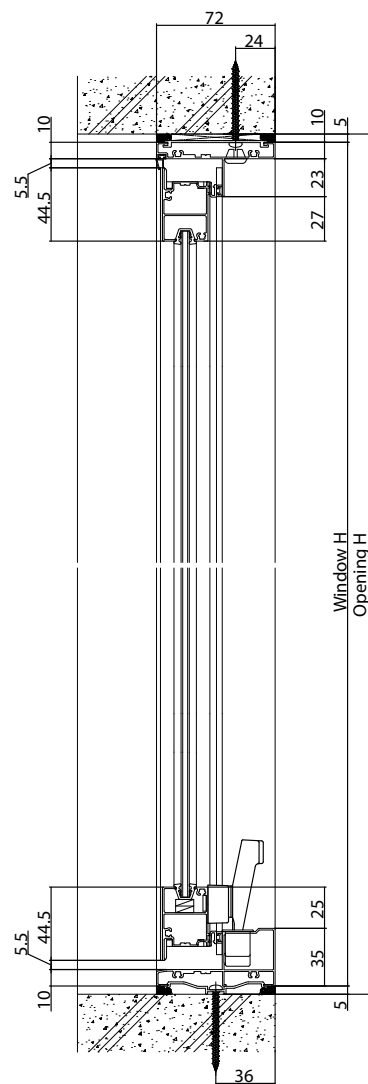
Horizontal section: Entrance sliding door (2 panels on 2 tracks)



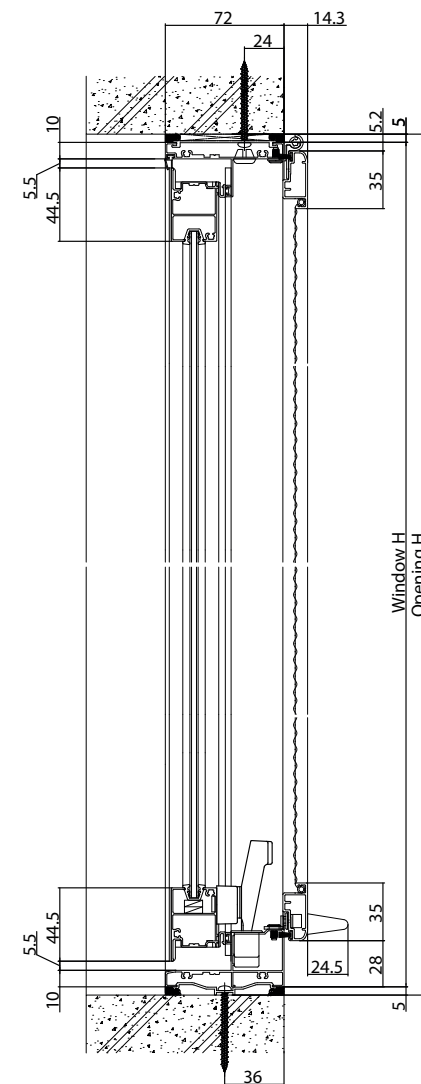
Horizontal section: Entrance sliding door (4 panels on 2 tracks)

## WE 70

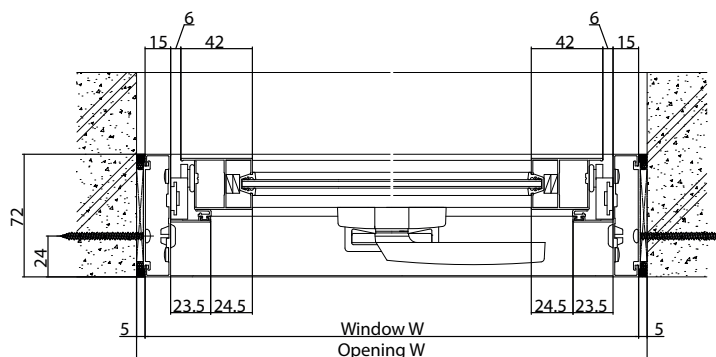
## AWNING WINDOW



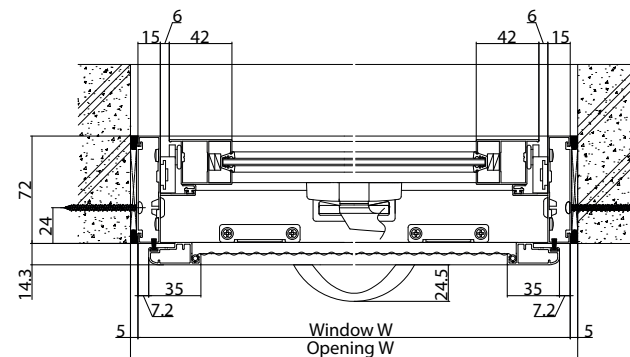
Vertical section: Awning window



Vertical section: Awning window with screen



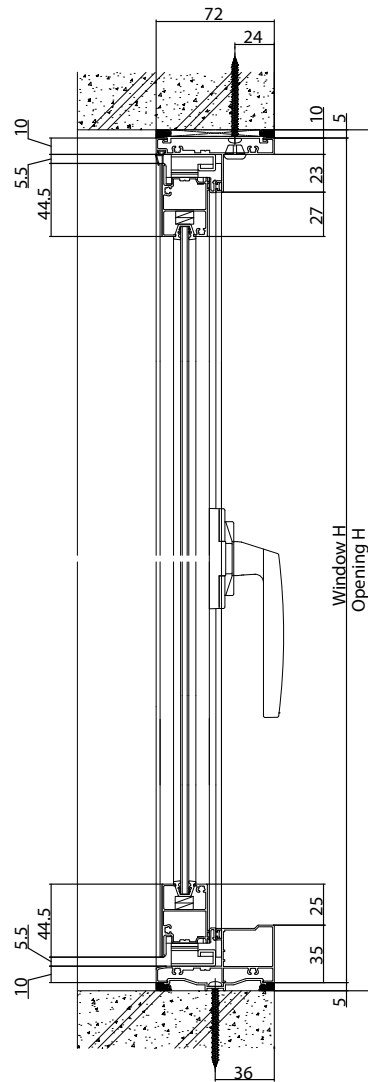
Horizontal section: Awning window



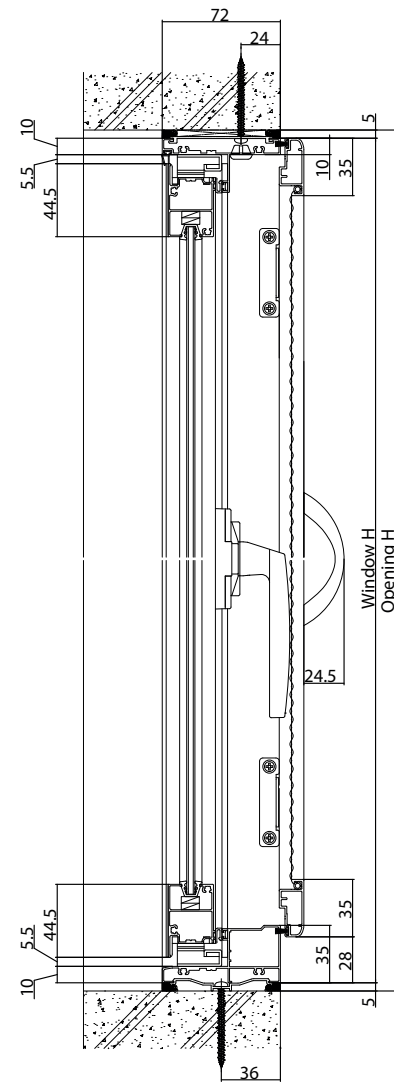
Horizontal section: Awning window with screen

# WE 70

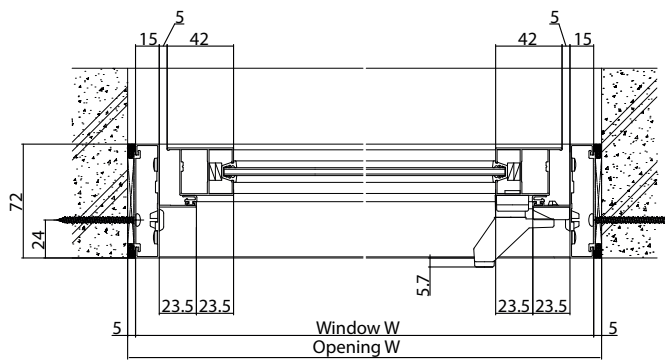
## CASEMENT WINDOW



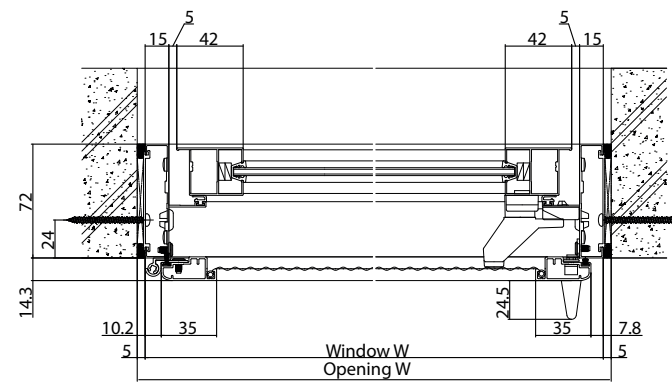
Vertical section: Casement window



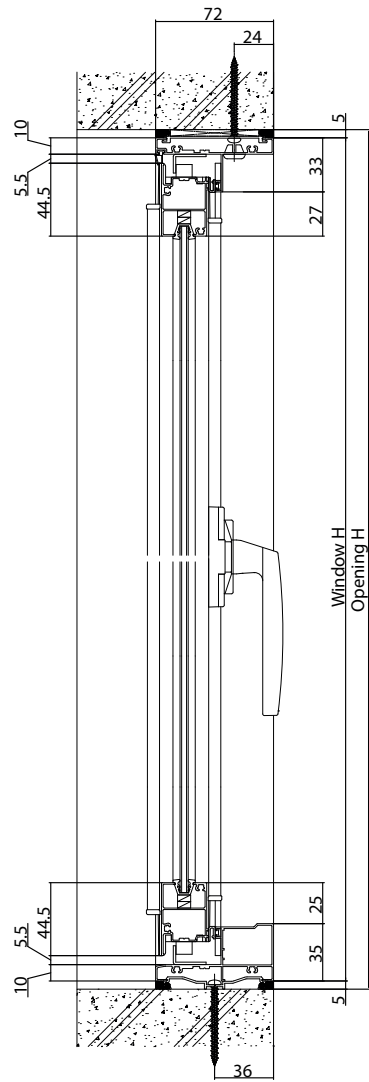
Vertical section: Casement window with screen



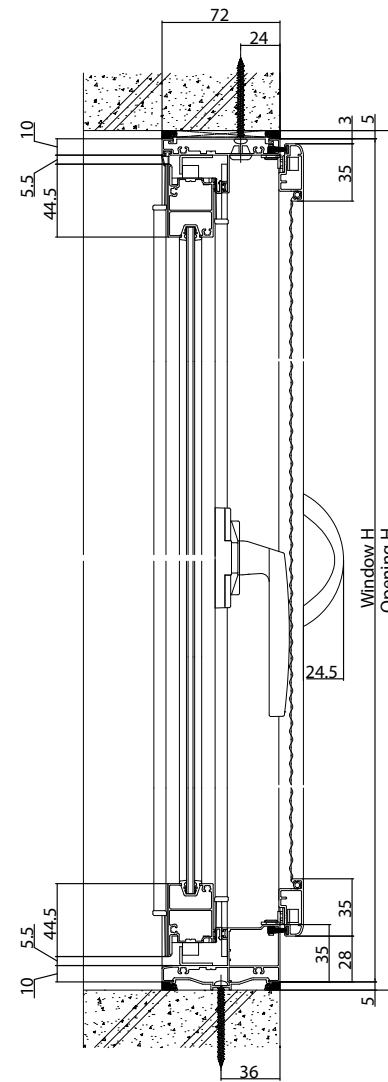
Horizontal section: Casement window



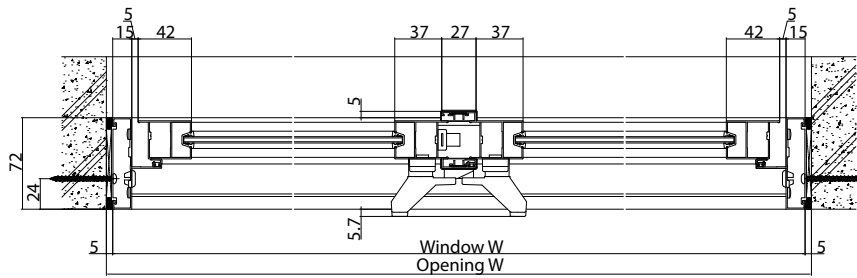
Horizontal section: Casement window with screen



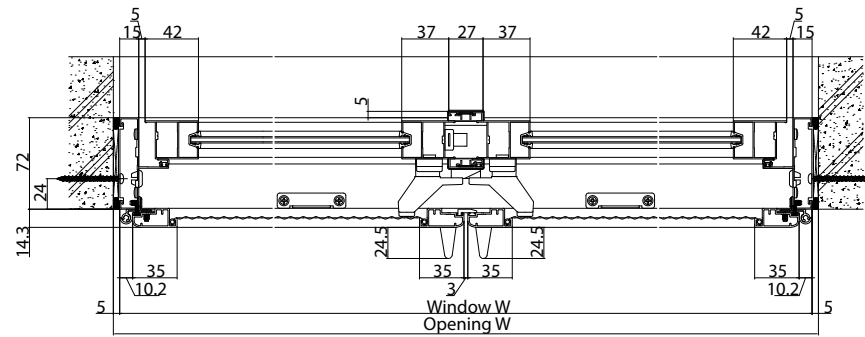
Vertical section: Double Casement window



Vertical section: Double Casement window with screen



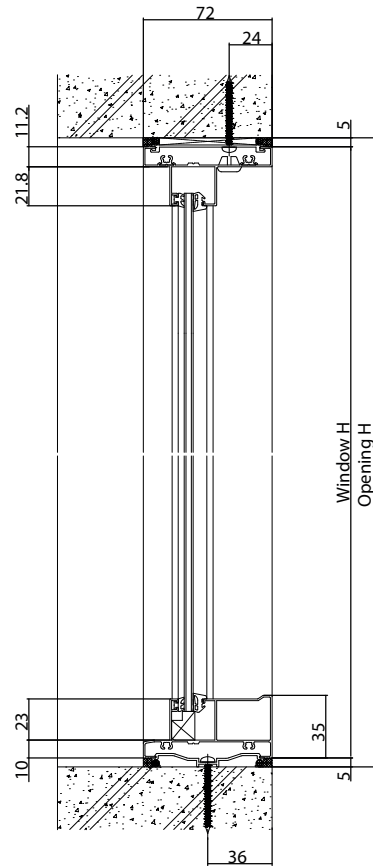
Horizontal section: Double Casement window



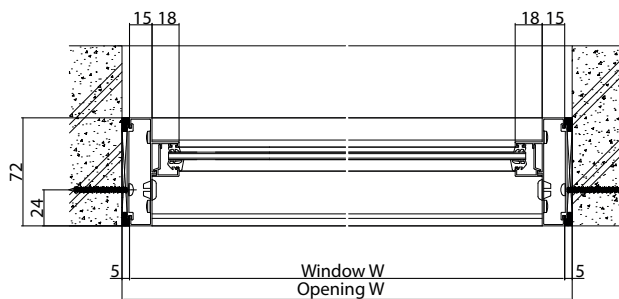
Horizontal section: Double Casement window with screen

# WE 70

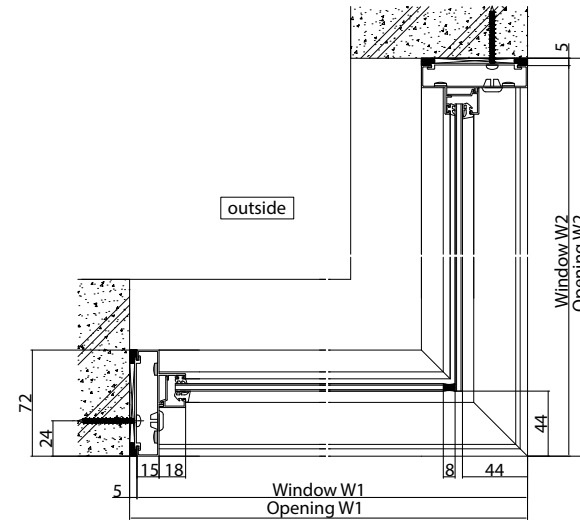
## FIXED WINDOW



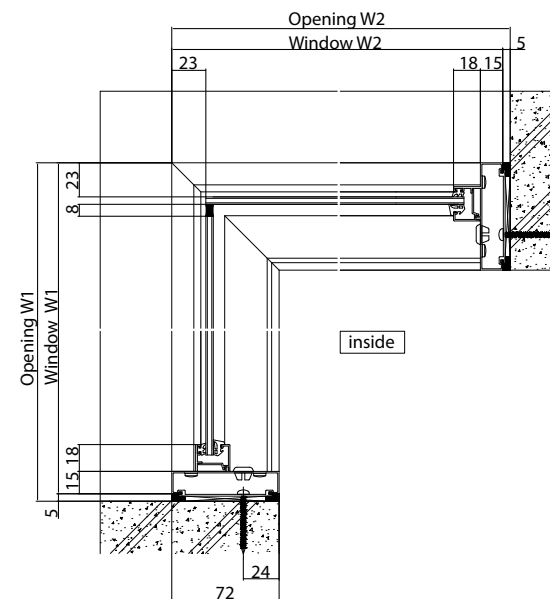
Vertical section: Single and corner fixed



Horizontal section: Single fixed



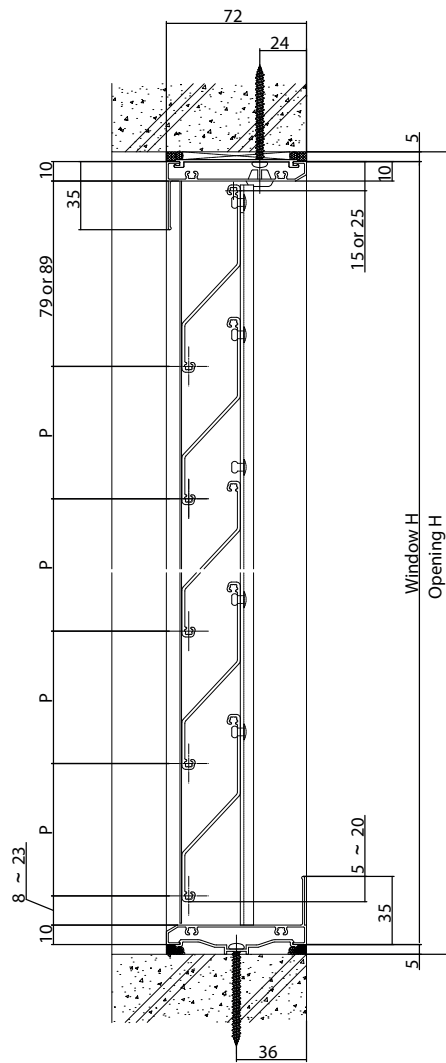
Horizontal section: Inward fixed



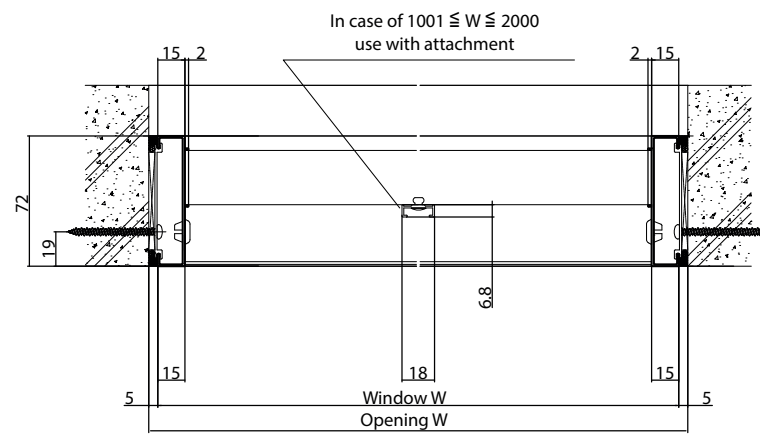
Horizontal section: Outward fixed

## WE 70

## ALUMINUM LOUVER



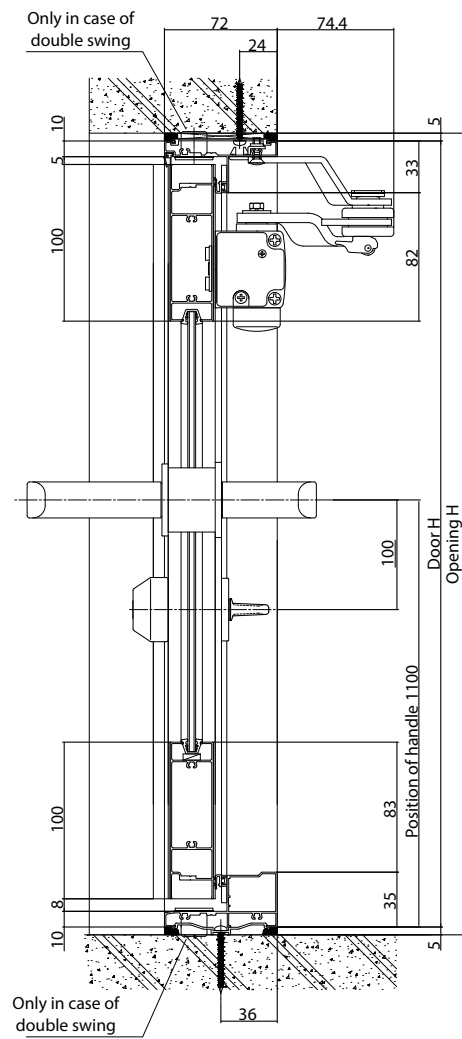
Vertical section: Aluminum louver



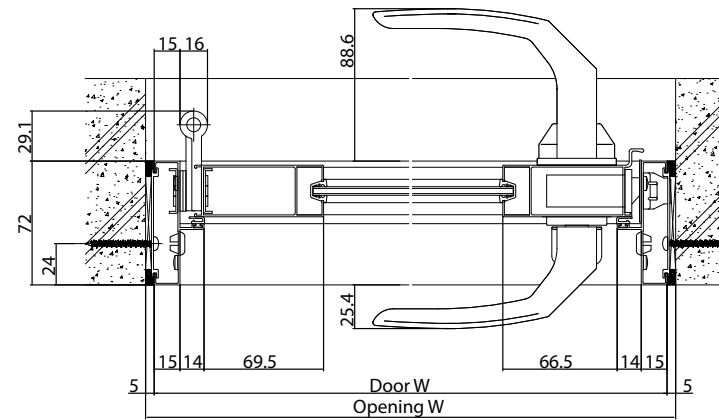
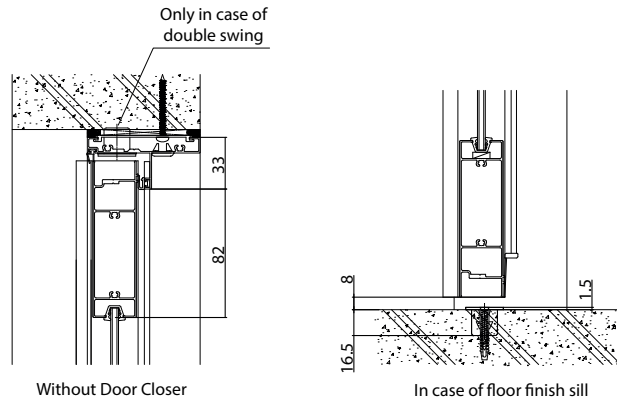
Horizontal section: Aluminum louver

# WE 70

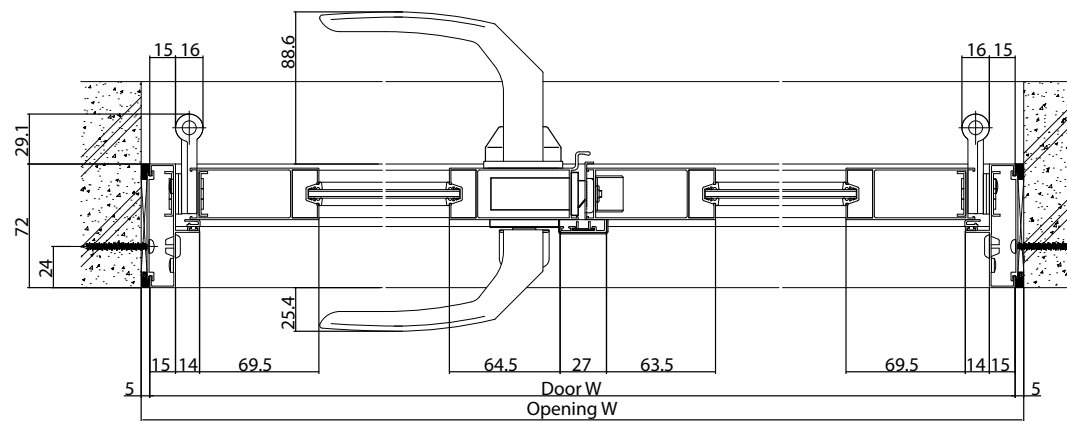
## OUT-SWING & IN-SWING DOOR



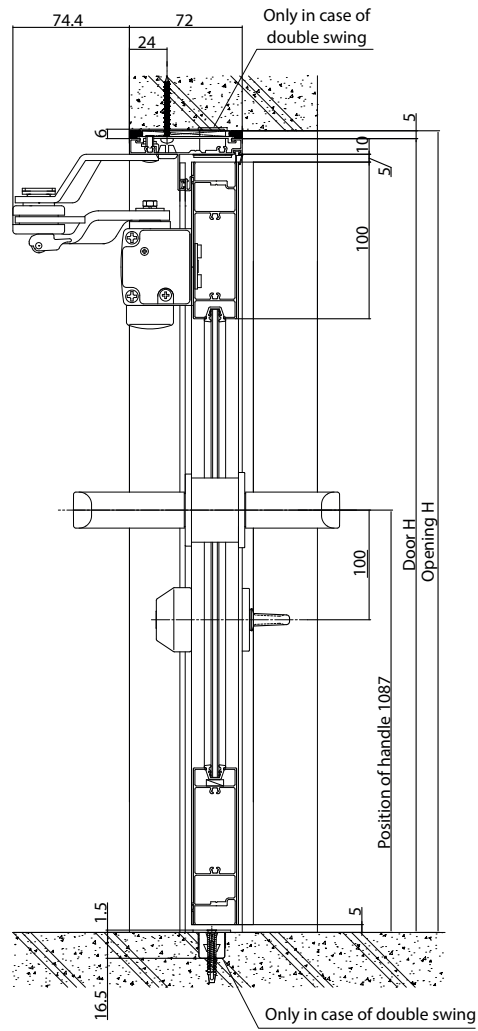
Vertical section: Single & Double out-swing door with sill



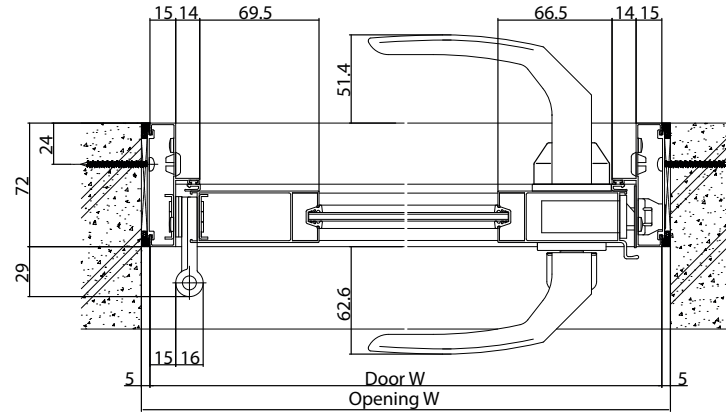
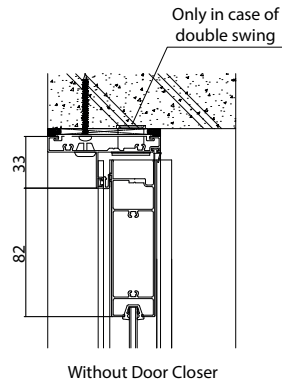
Horizontal section: Single out-swing door



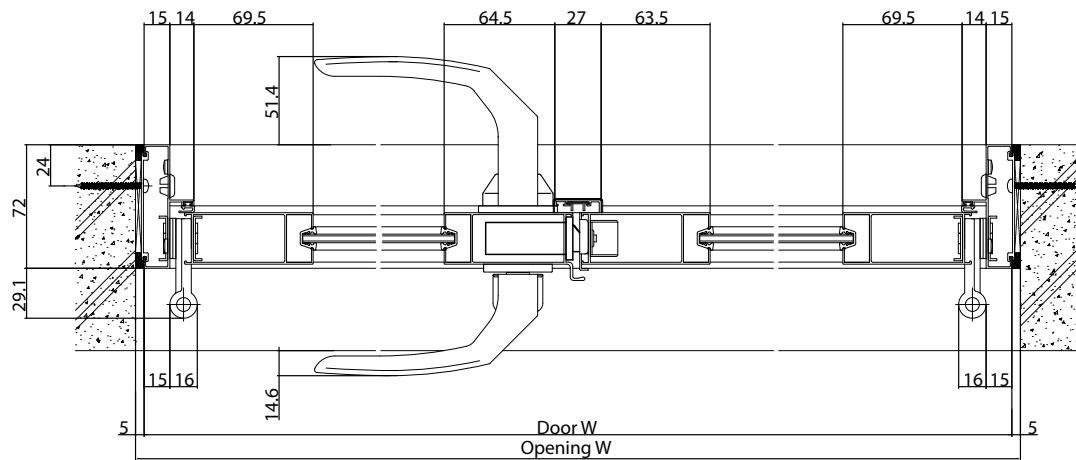
Horizontal section: Double out-swing door



Vertical section: Single & Double in-swing door



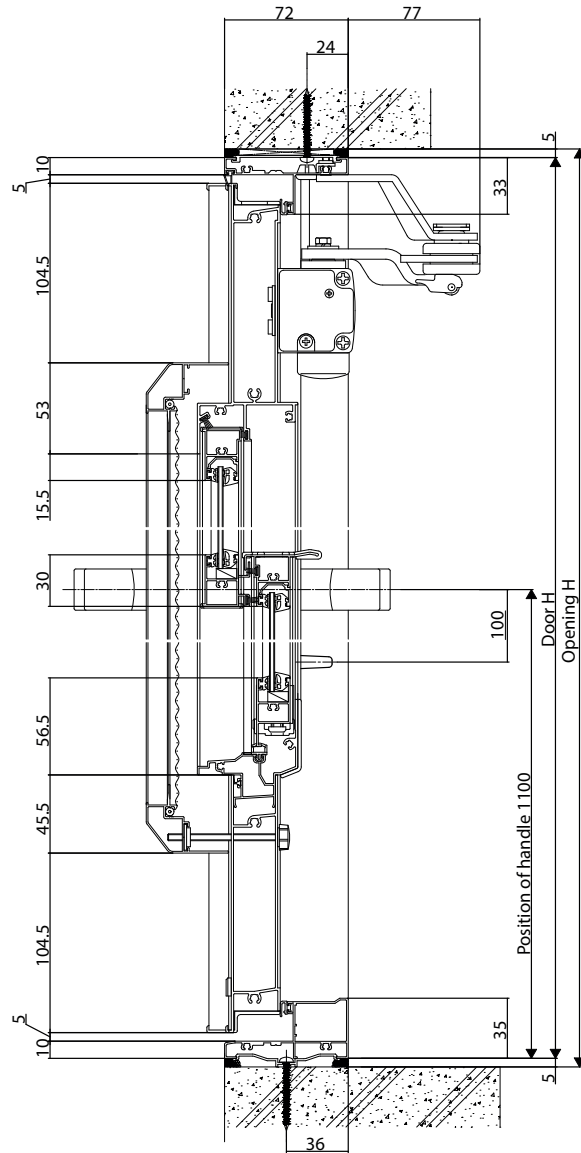
Horizontal section: Single in-swing door



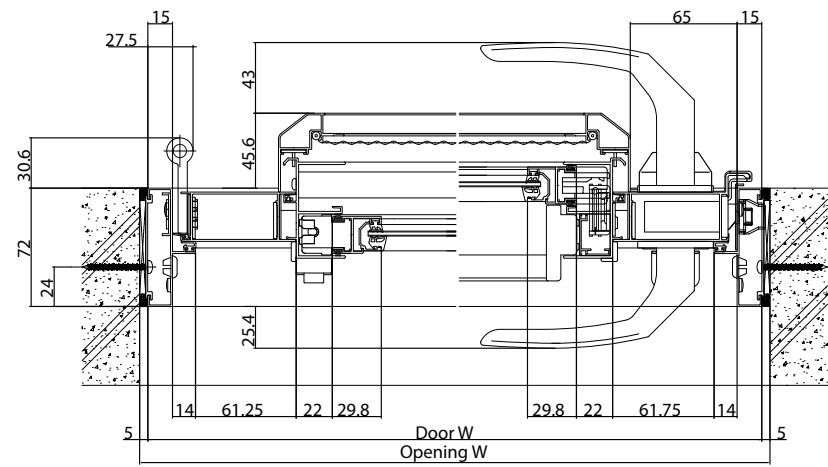
Horizontal section: Double in-swing door

# WE 70

## AIRFLOW DOOR



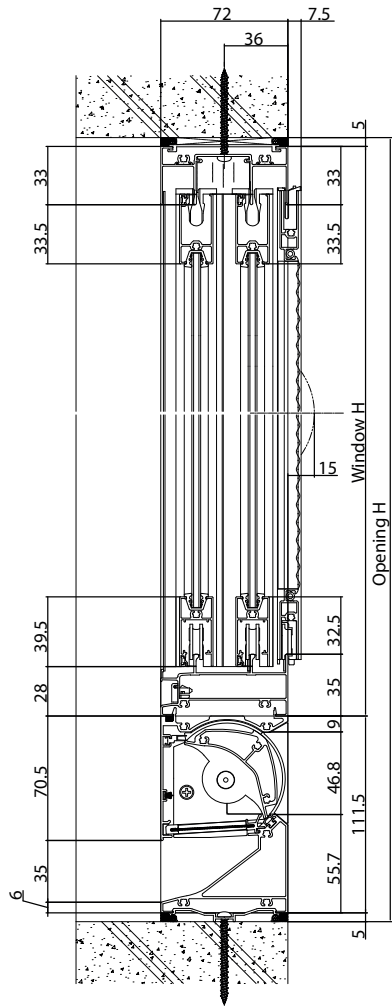
Vertical section: Airflow Door



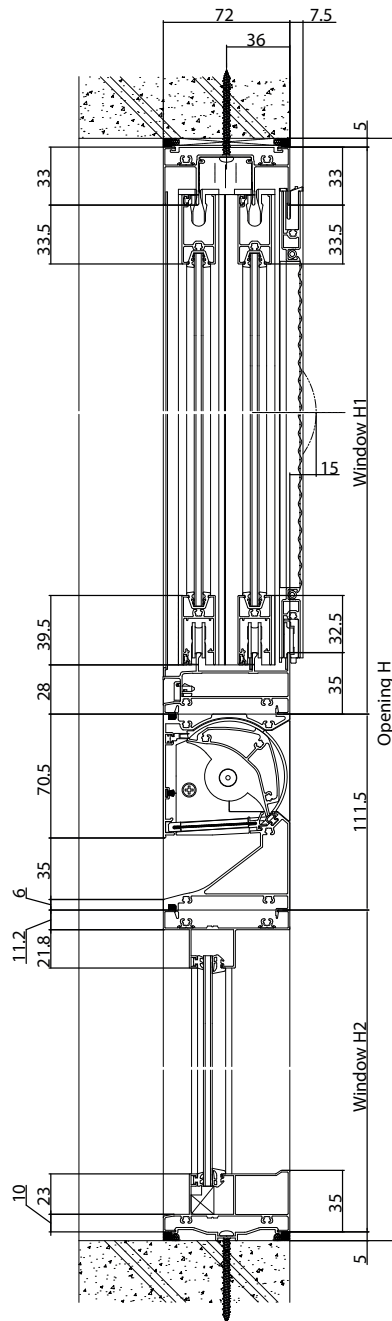
Horizontal section: Airflow Door

## WE 70

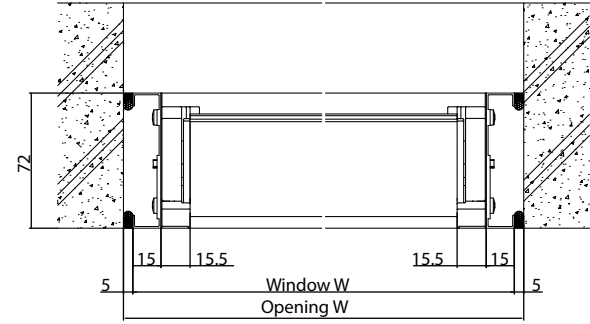
## AIRFLOW SLOT



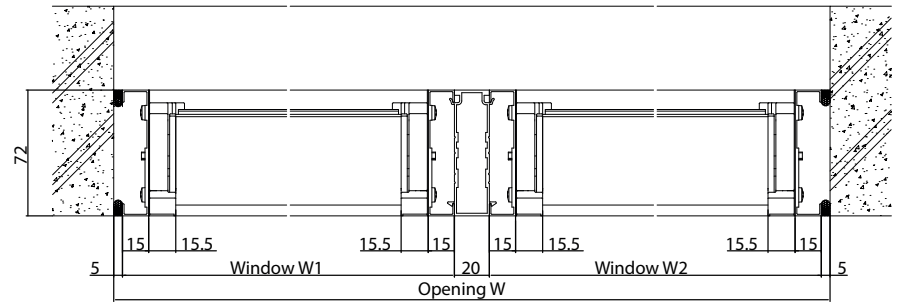
Vertical section: Airflow slot for bottom



Vertical section: Airflow slot for middle



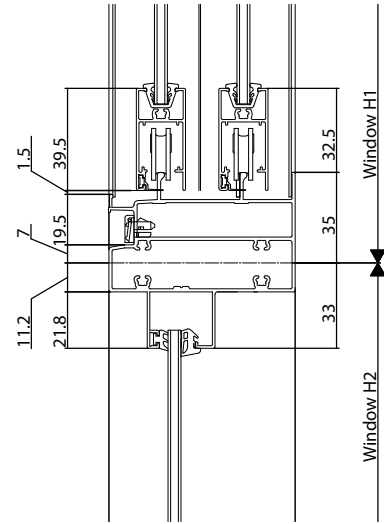
Horizontal section: Airflow slot



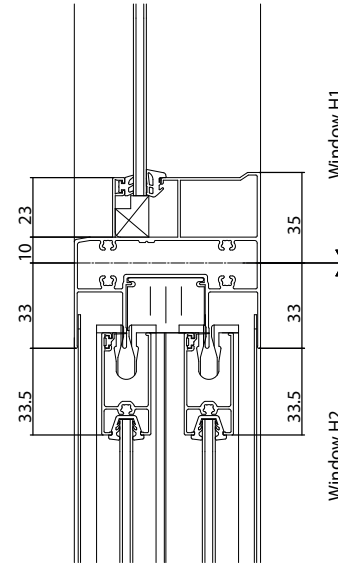
Horizontal section: Mullion for airflow slot

# WE 70

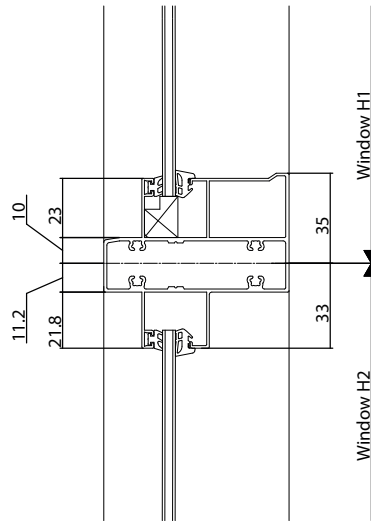
## TRANSOM & MULLION



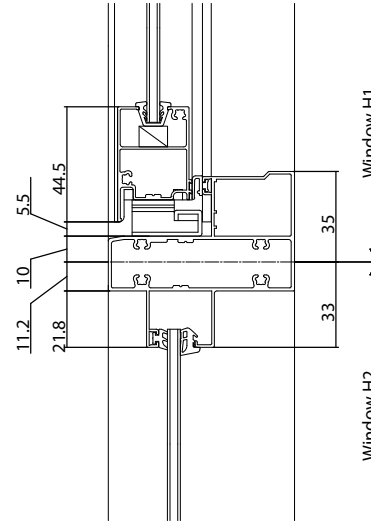
Vertical section: Sliding/Fixed transom



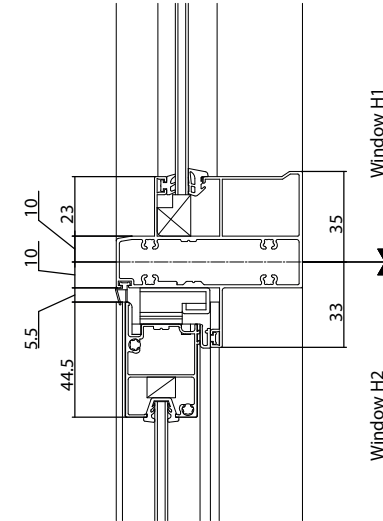
Vertical section: Fixed/Sliding transom



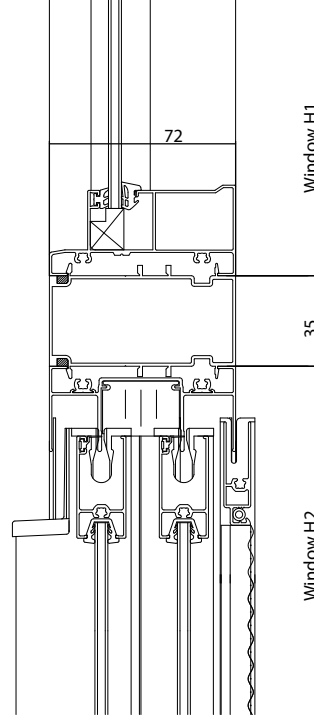
Vertical section: Fixed/Fixed transom



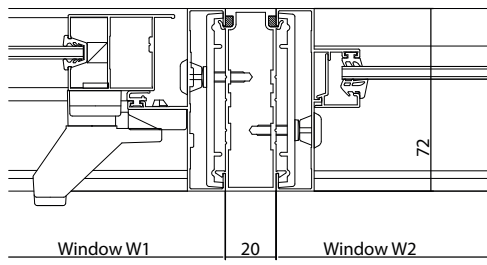
Vertical section: Projection/Fixed transom



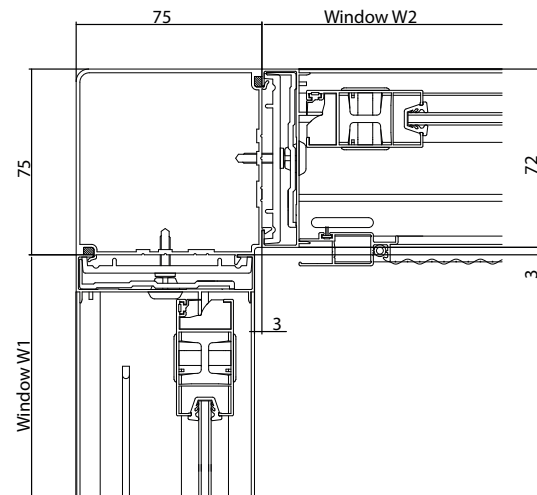
Vertical section: Fixed/Projection transom



Transom



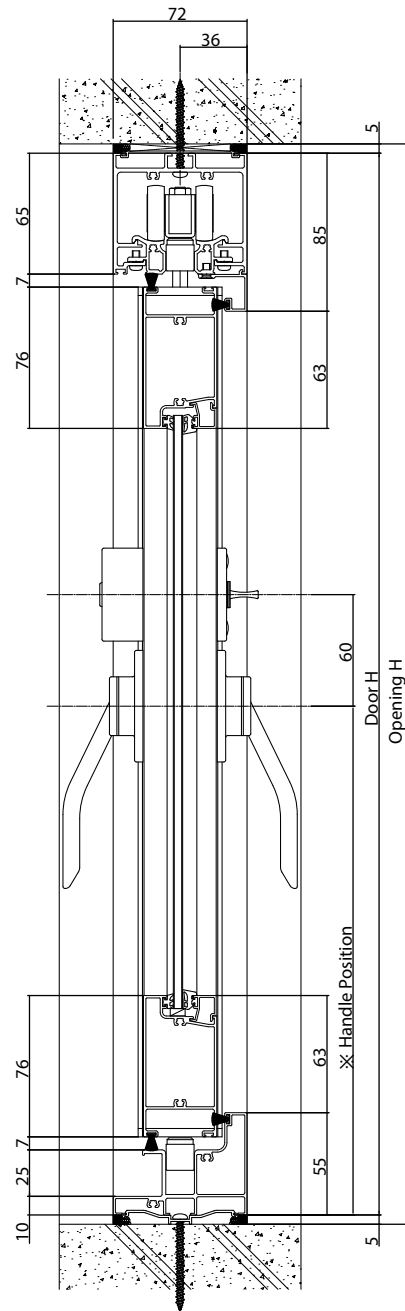
Mullion



Corner mullion

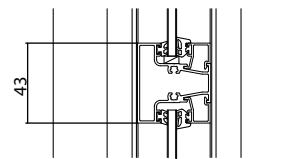
# WE 70

## FOLDING DOOR

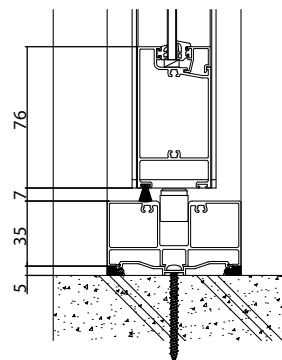


Vertical section: Folding Door

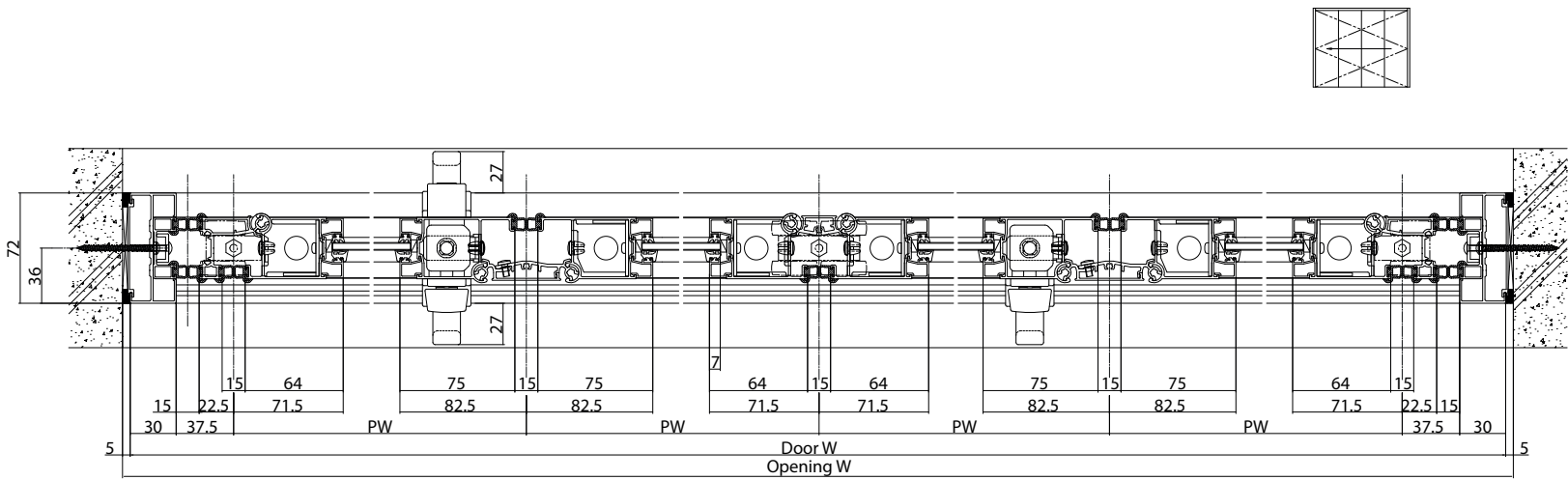
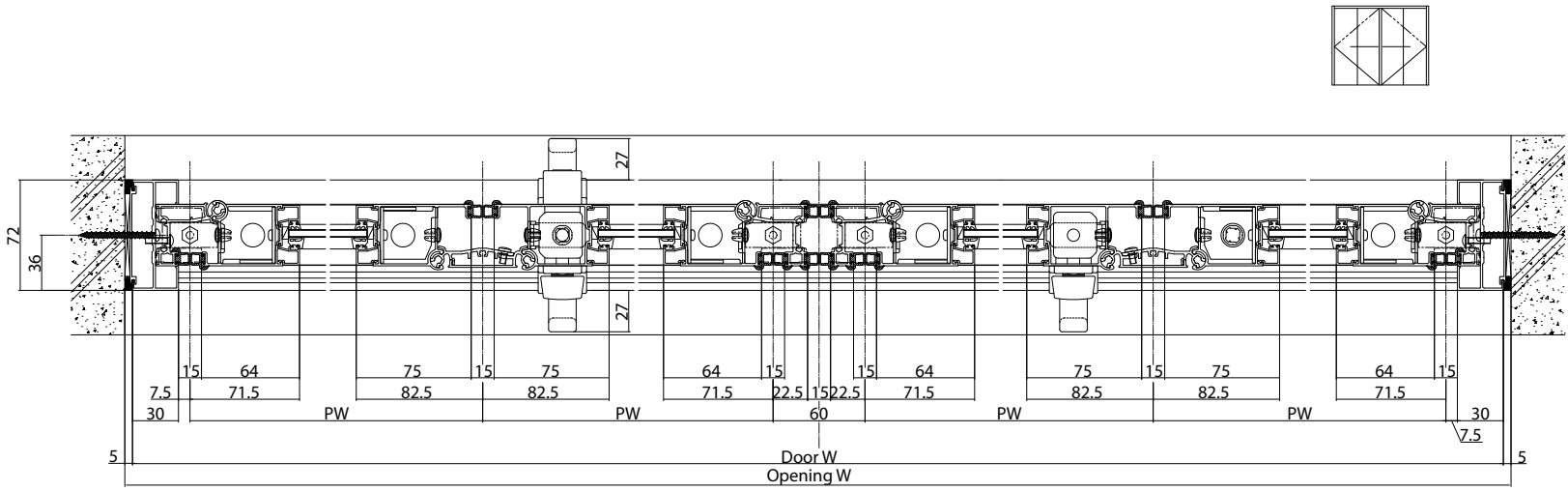
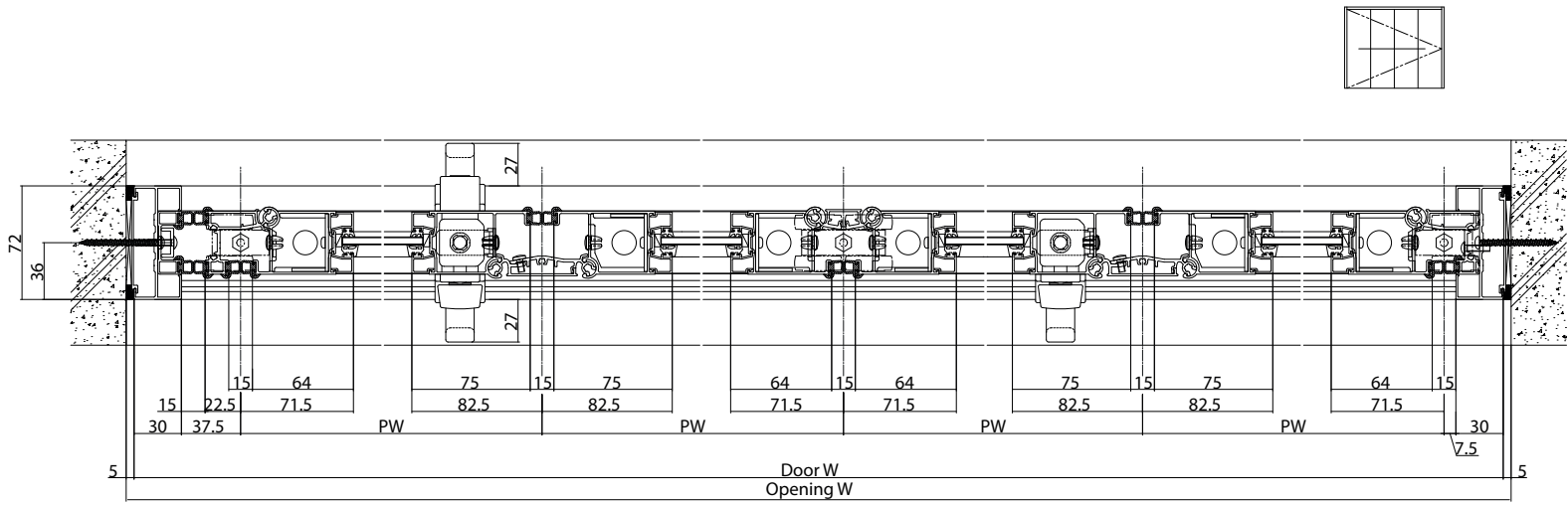
	※ Handle Position
H > 1600	1100
H ≤ 1600	H/2-15



In case of with middle bar



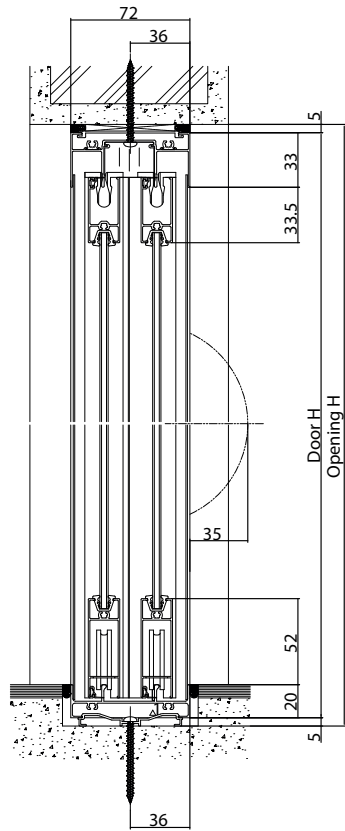
In case of flat sill



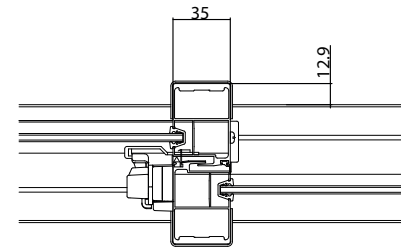
Horizontal section: Folding Door

# WE 70

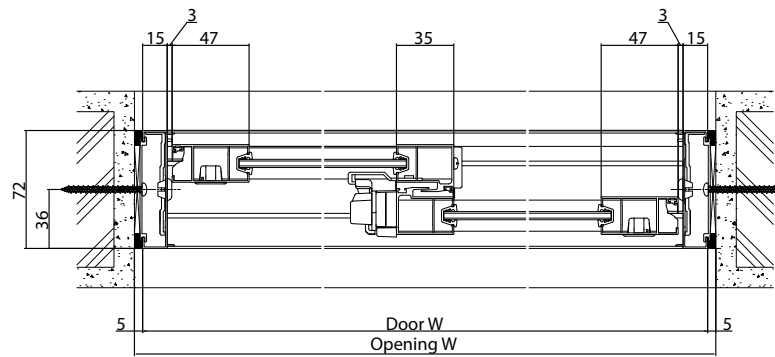
## PARTITION DOOR (2P2T, 4P2T)



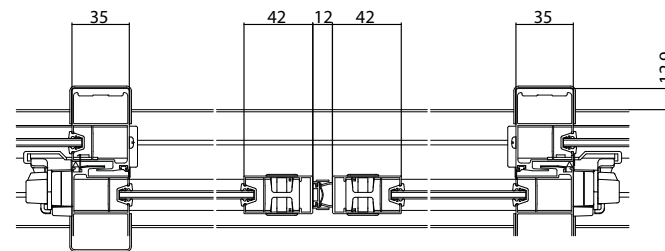
Vertical section: 2 and 4 panels  
on 2 tracks partition door



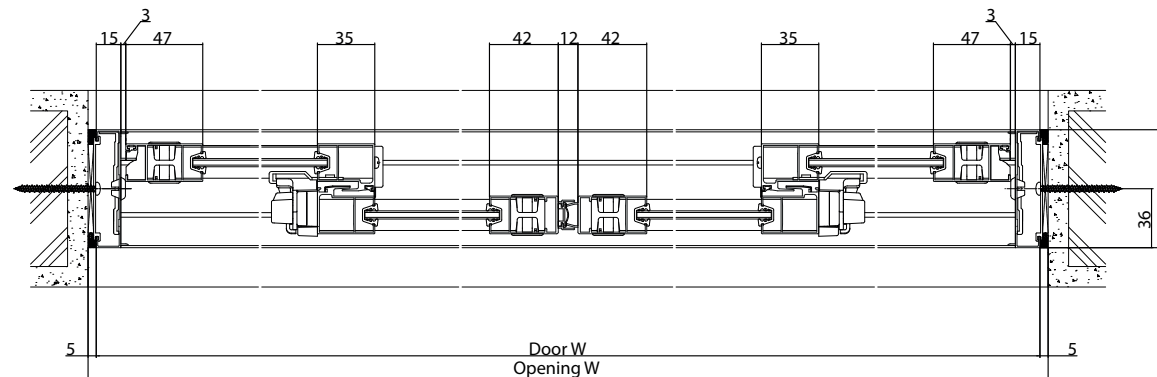
In case of Door H > 2400mm



Horizontal section: 2 panels on 2 tracks partition door



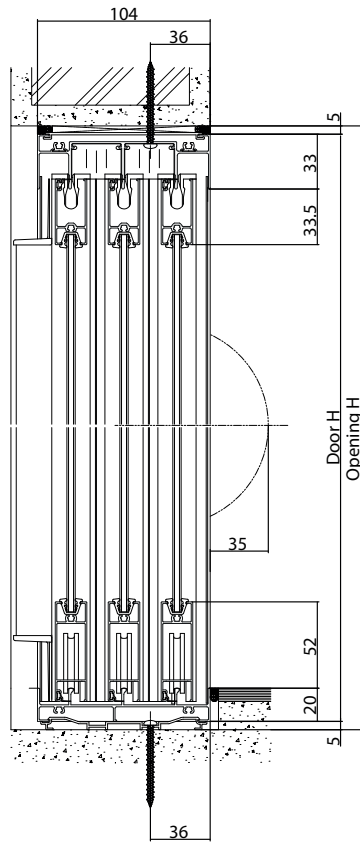
In case of Door H > 2400mm



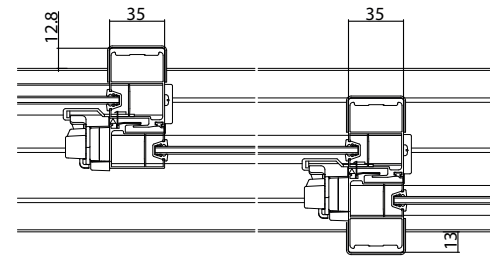
Horizontal section: 4 panels on 2 tracks partition door

## WE 70

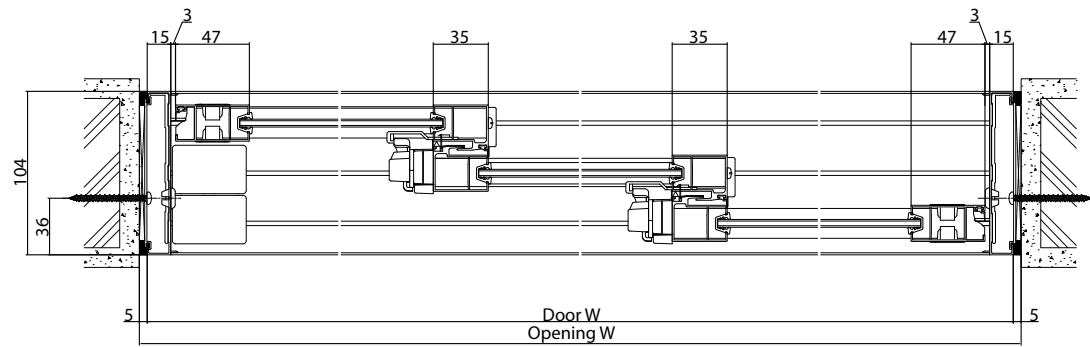
## PARTITION DOOR (3P3T, 6P3T)



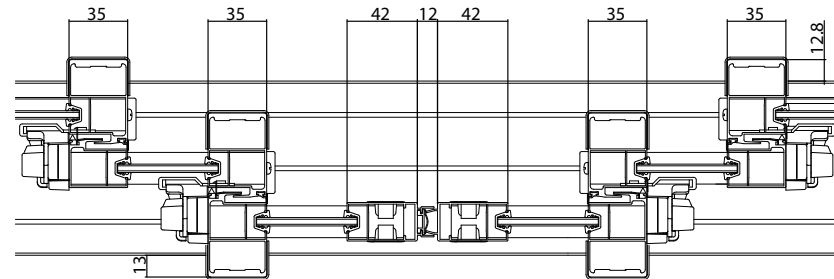
Vertical section: 3 and 6 panels  
on 3 tracks partition door



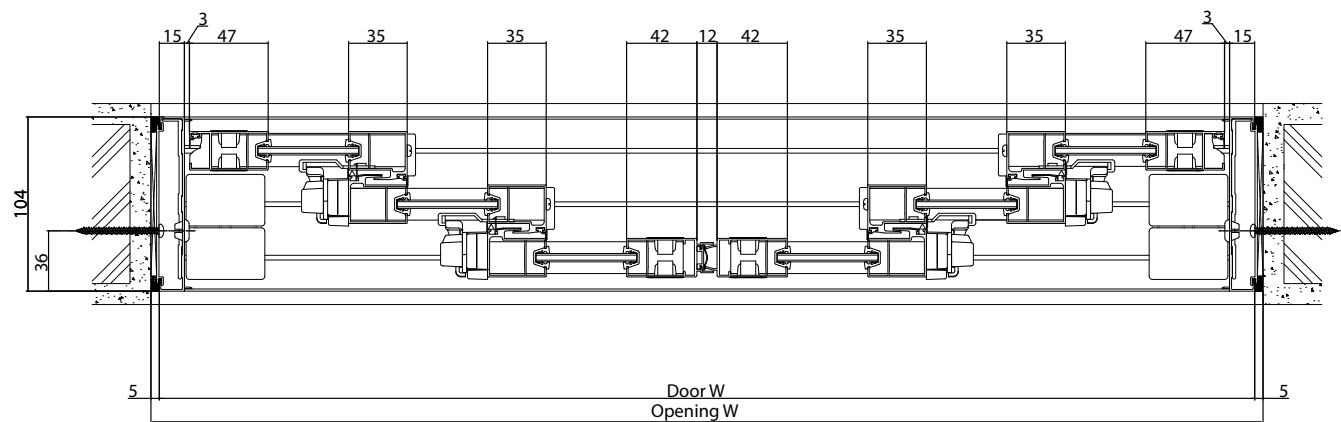
In case of Door H > 2400mm



Horizontal section: 3 panels on 3 tracks partition door



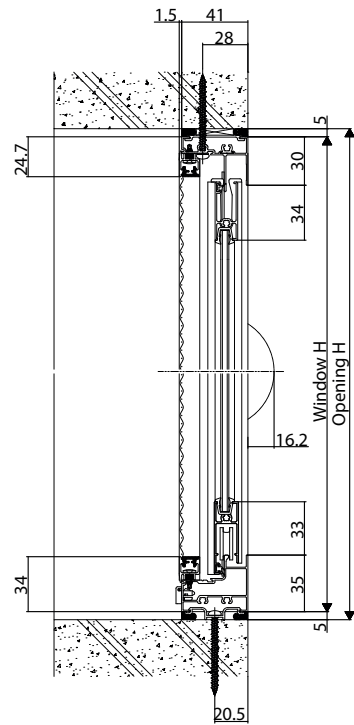
In case of H > 2400mm



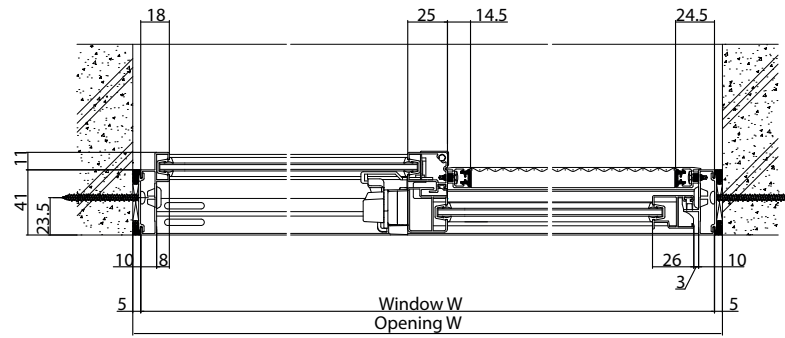
Horizontal section: 6 panels on 3 tracks partition door

# WE 40

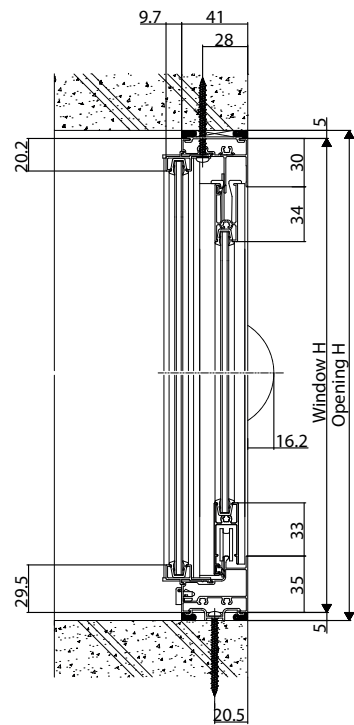
## SLIDING WINDOW



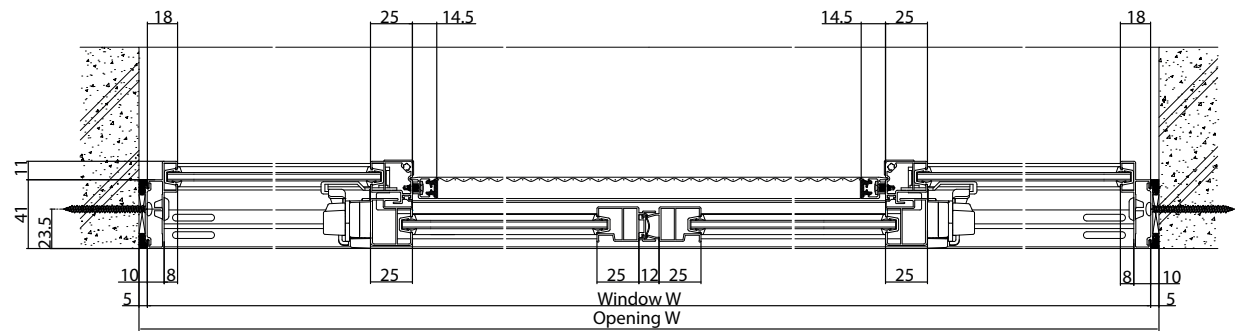
Vertical section: Single sliding (screen side)



Horizontal section: Single sliding window



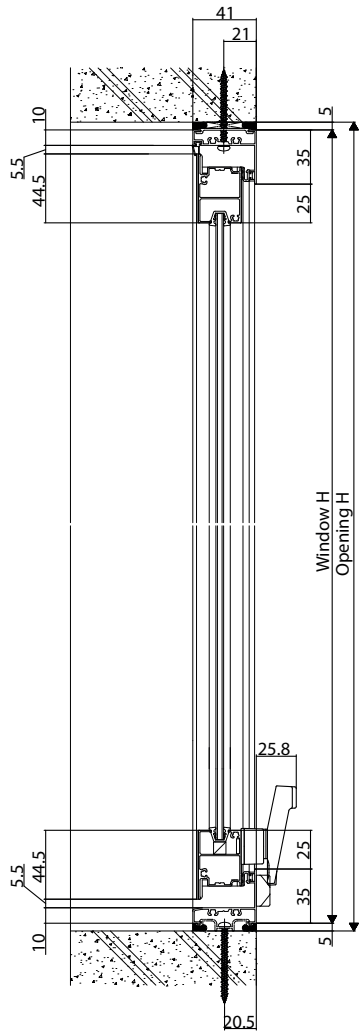
Vertical section: Single sliding window (panel side)



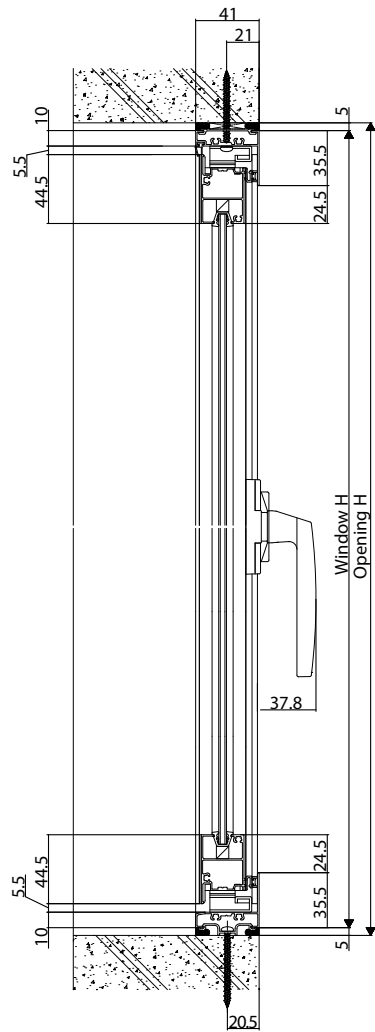
Horizontal section: Center sliding window

## WE 40

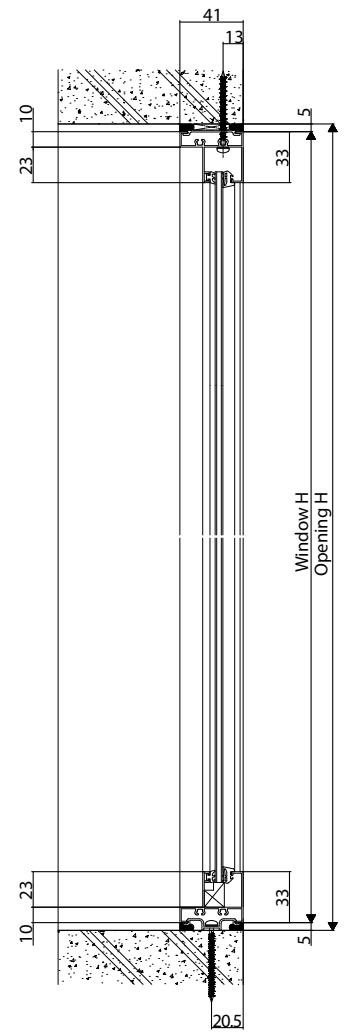
## AWNING, CASEMENT, FIXED WINDOW



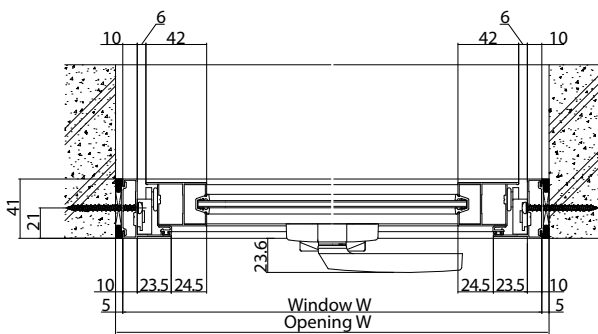
Vertical section: Awning window



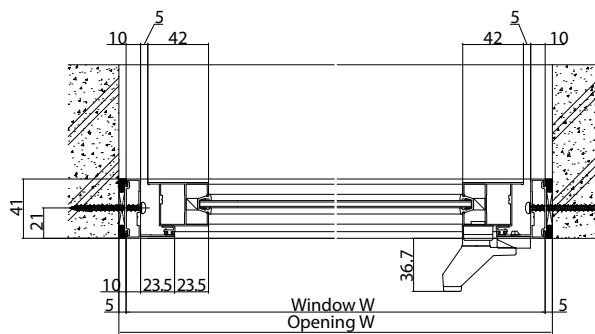
Vertical section: Casement window



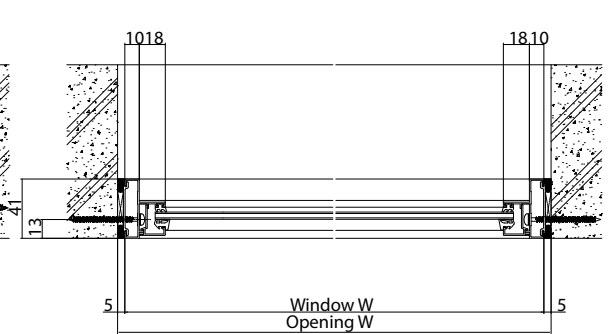
Vertical section: Fixed window



Horizontal section: Awning window



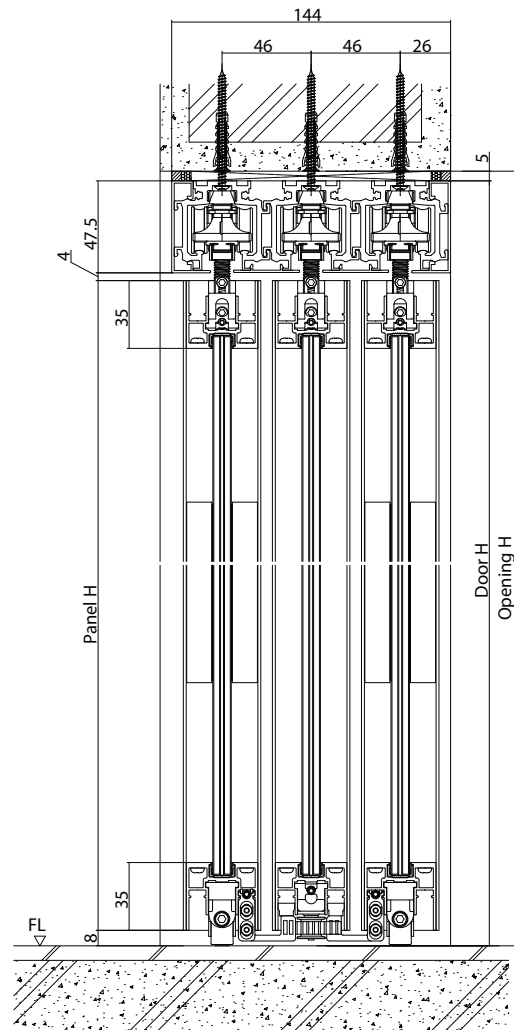
Horizontal section: Casement window



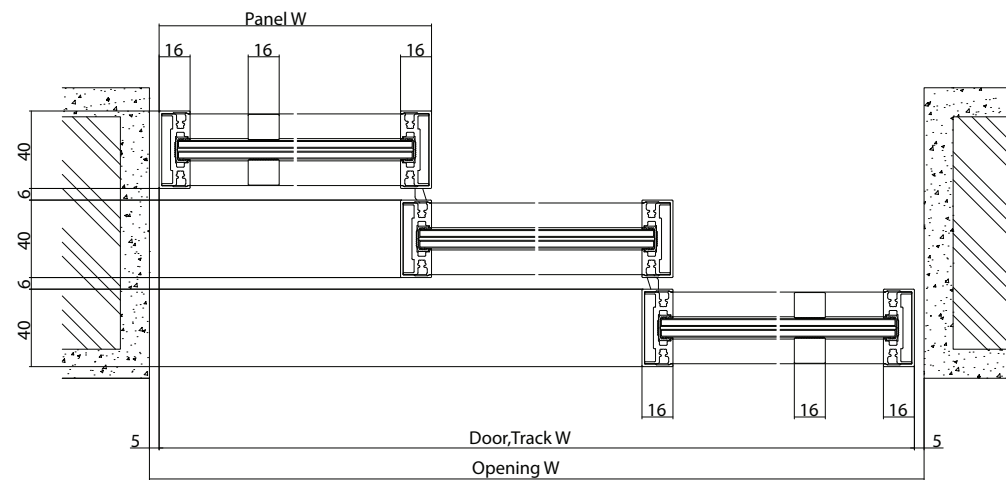
Horizontal section: Fixed window

# IN16

## HANGING DOOR (3P3T)



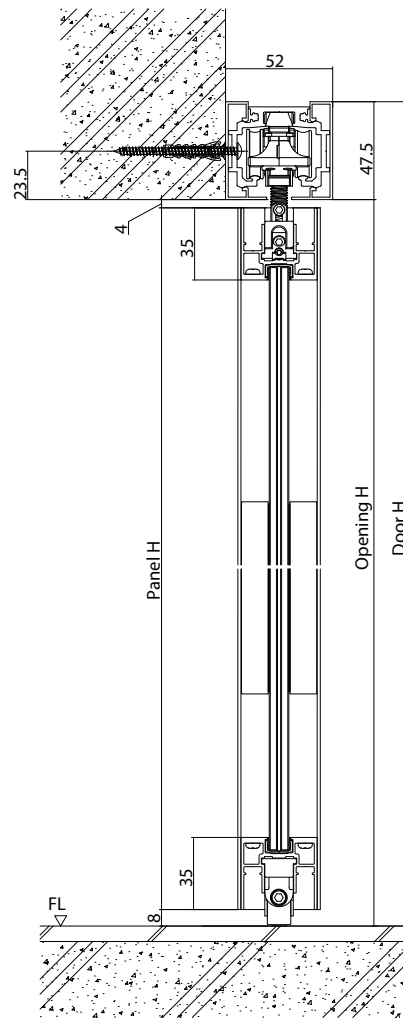
Vertical section: 3 panels on 3 tracks  
in-wall hanging door  
(Telescopic type)



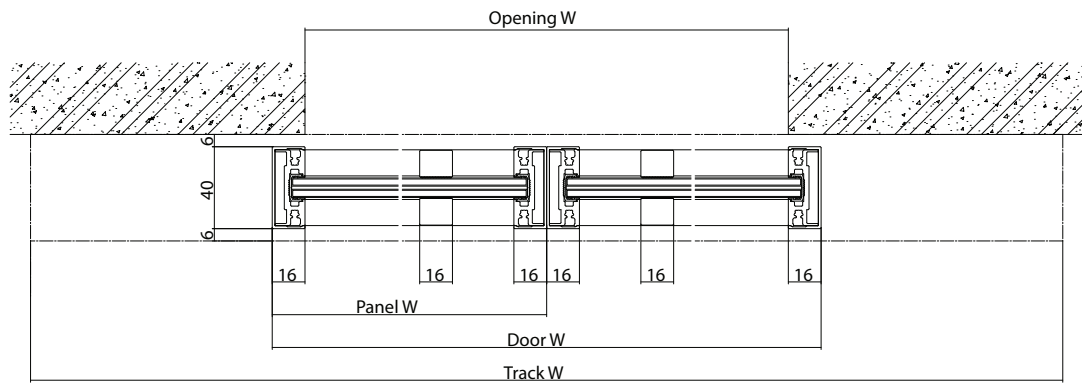
Horizontal section: 3 panels on 3 tracks  
in-wall hanging door  
(Telescopic type)

## IN16

## HANGING DOOR (2P1T)



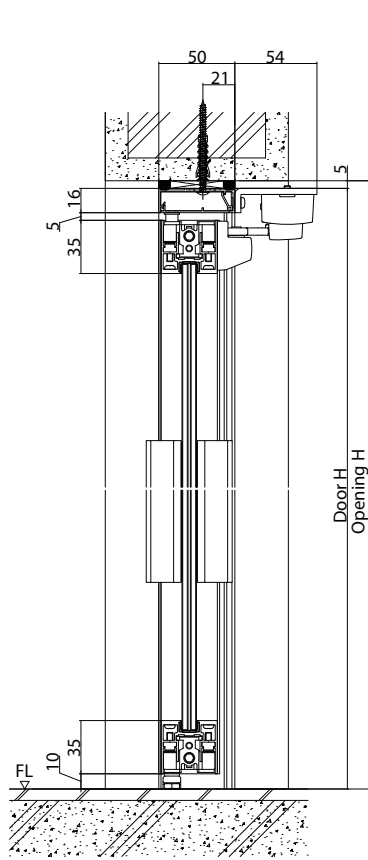
Vertical section: 2 panels on 1 track  
on-wall hanging door  
(Detached type)



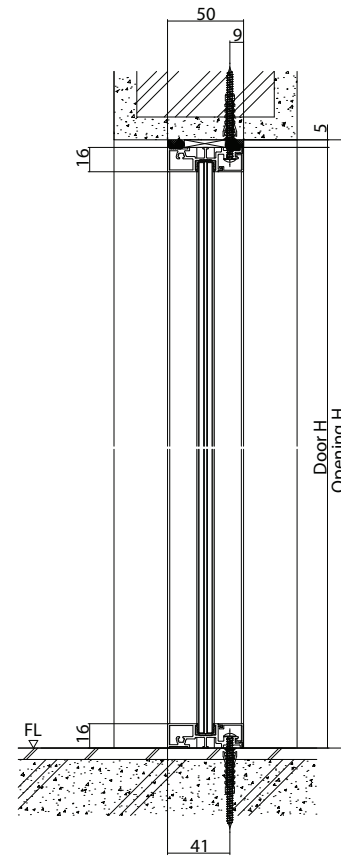
Horizontal section: 2 panels on 1 track  
on-wall hanging door  
(Detached type)

# IN16

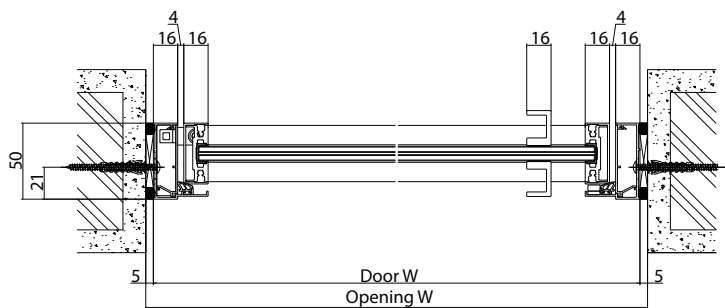
## SWING DOOR, FIXED DIVIDER



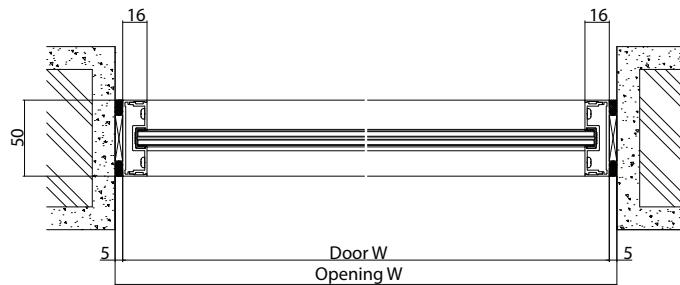
Vertical section: Swing door



Vertical section: Fixed divider



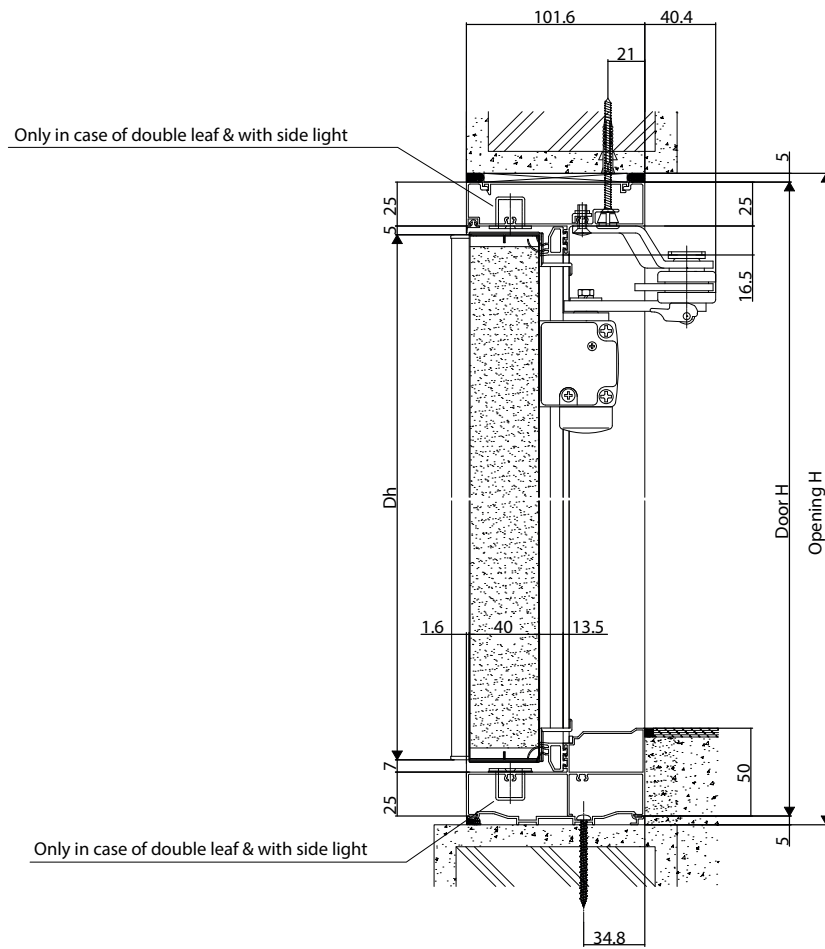
Horizontal section: Swing door



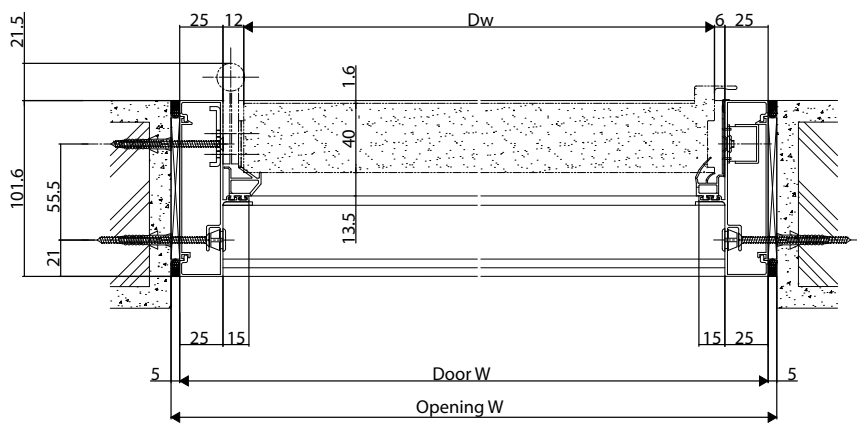
Horizontal section: Fixed divider

# GIESTA

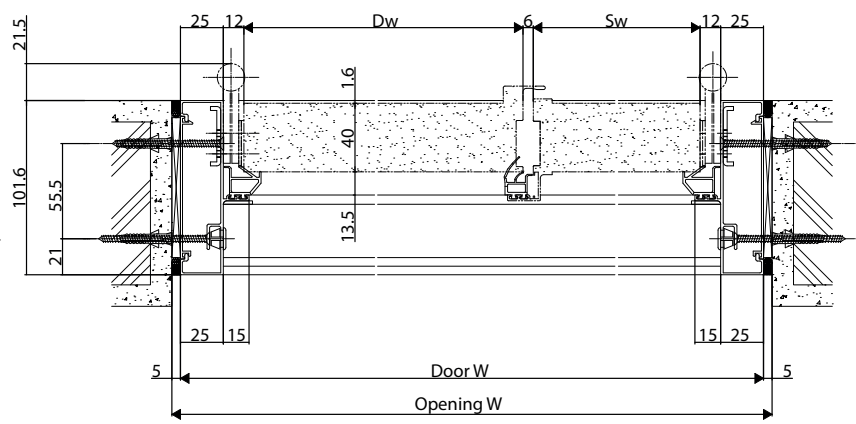
## OUT-SWING DOOR



Vertical section: Single and Double leaf with sill



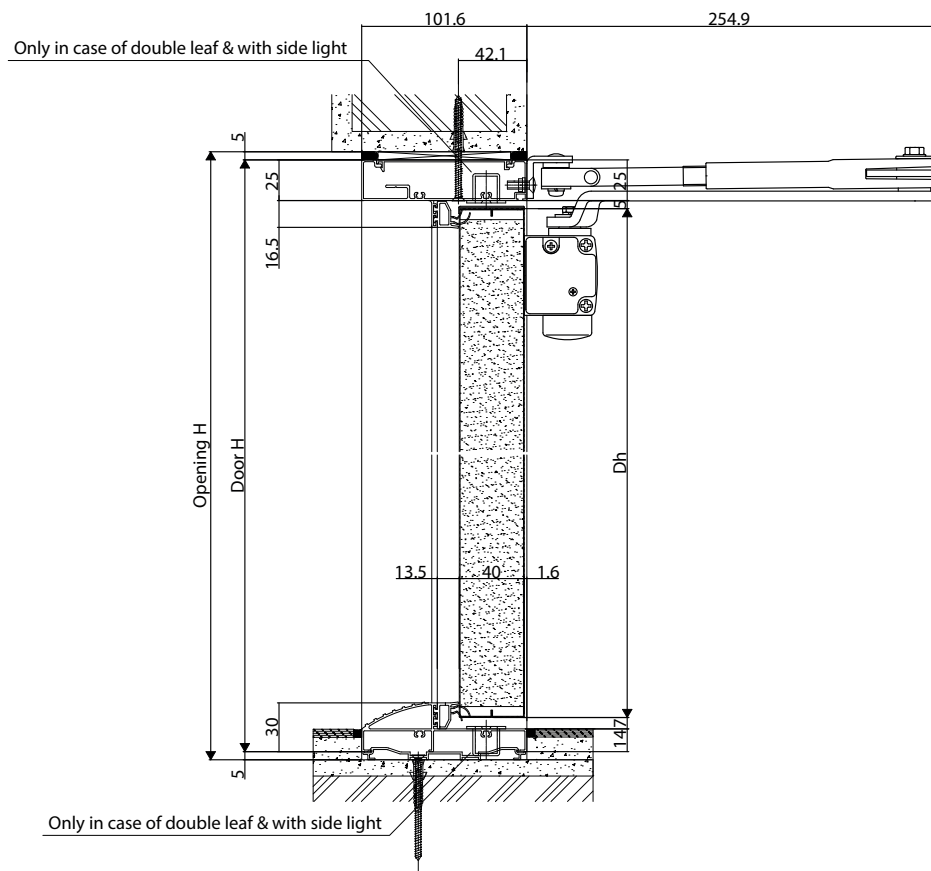
Horizontal section: Single leaf



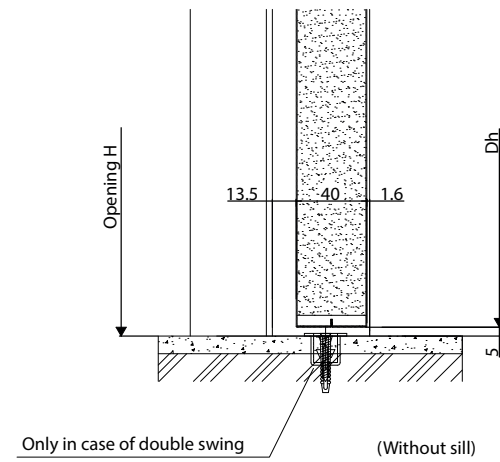
Horizontal section: Double leaf or with side light

# GIESTA

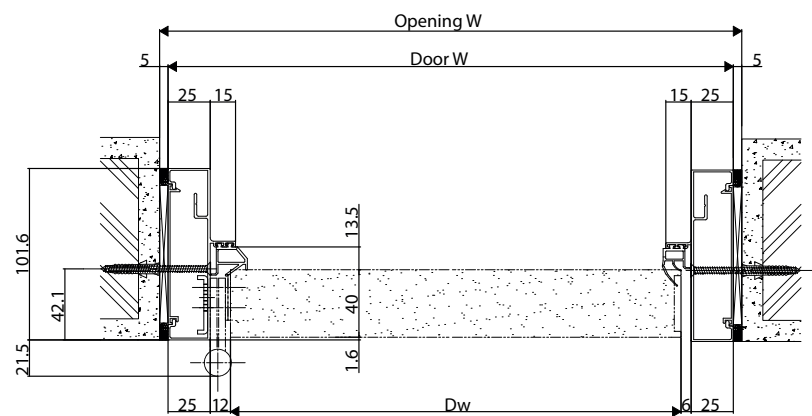
## IN-SWING DOOR



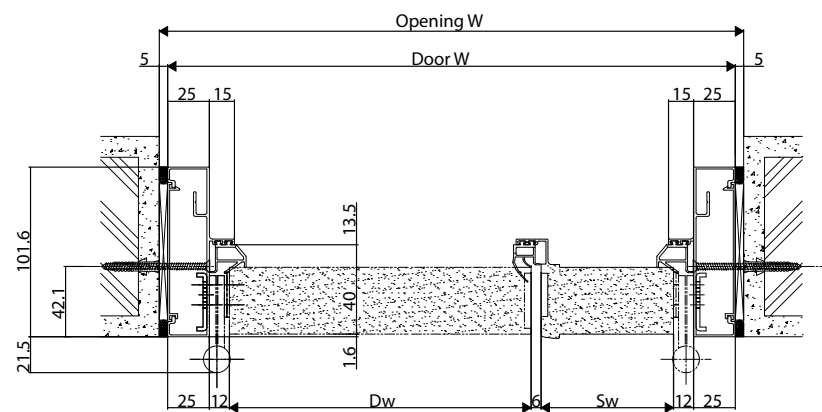
Vertical section: Single and Double leaf



Vertical section: Single and Double leaf



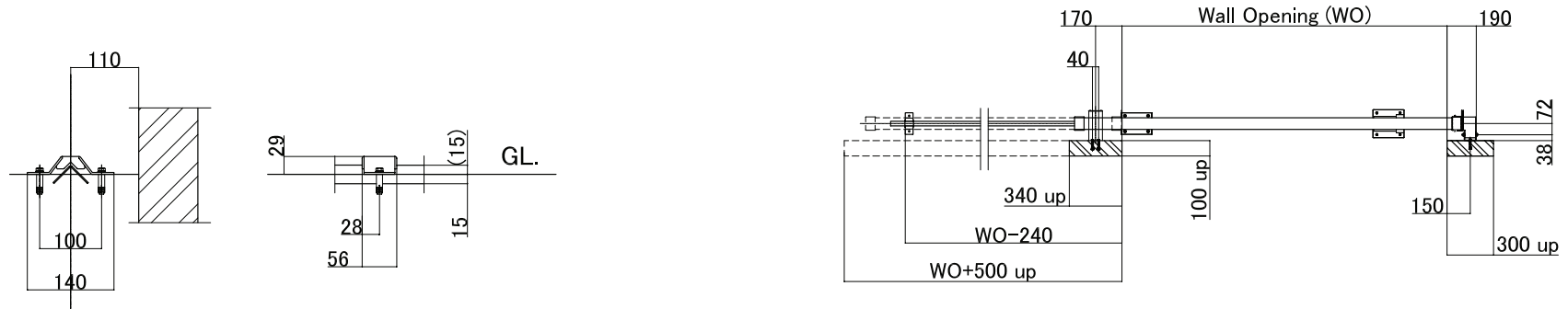
Horizontal section: Single leaf



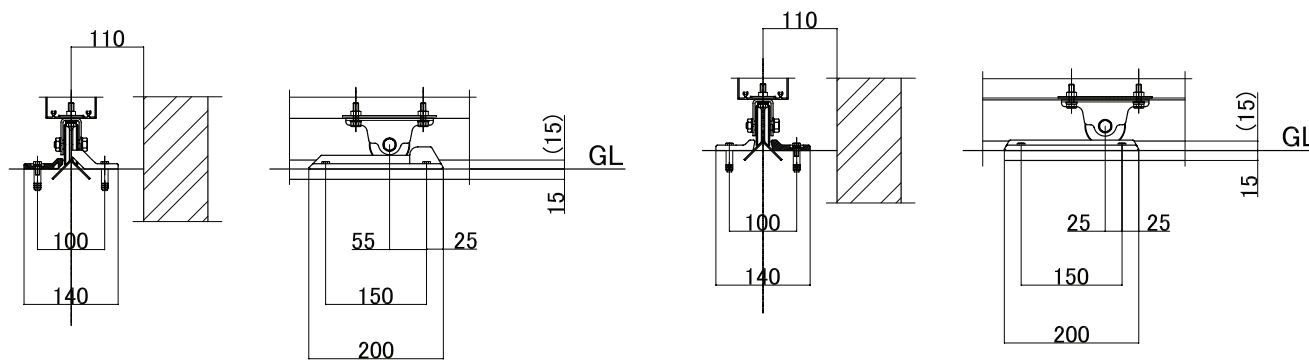
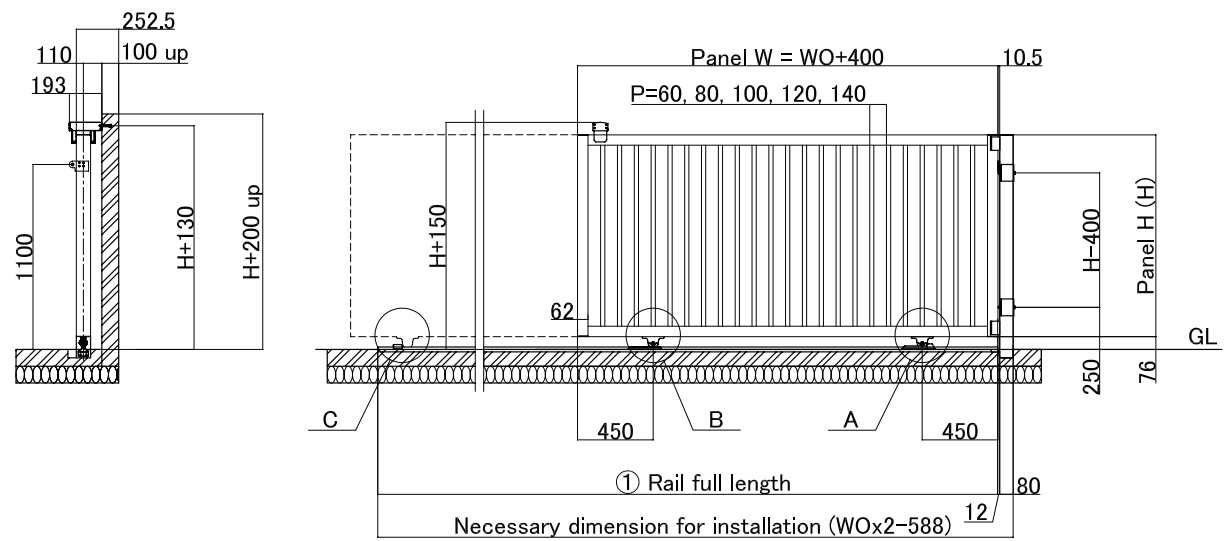
Horizontal section: Double leaf or with side light

## EXTERIOR

## ALUMINUM EXTERIOR SERIES



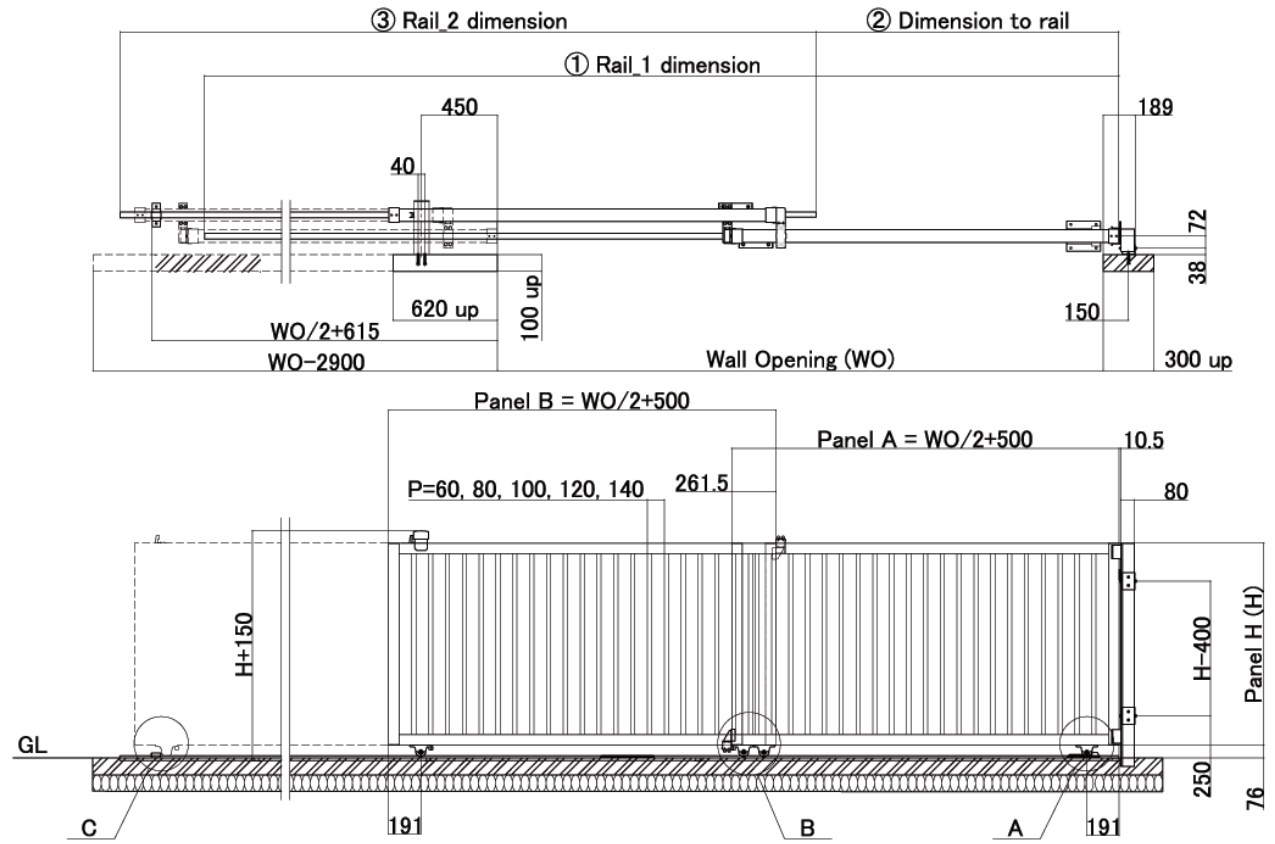
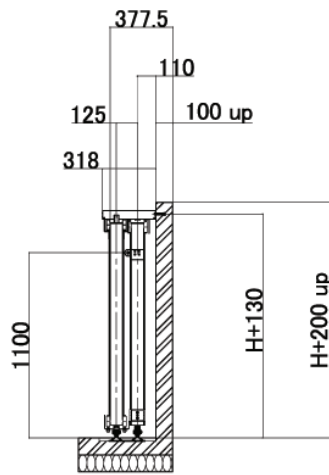
Stopper roller detailed drawing (C)



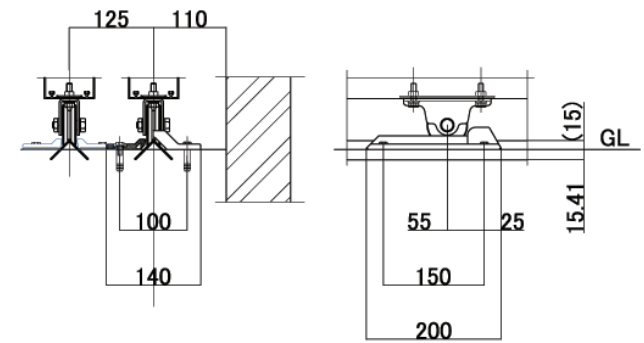
Roller detailed drawing (A)

Roller detailed drawing (B)

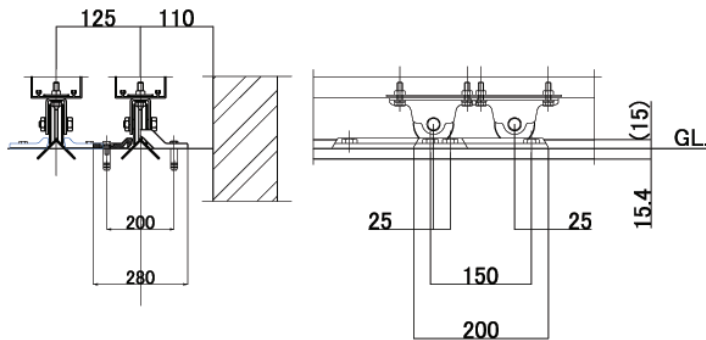
Lattice detailed drawing (D)



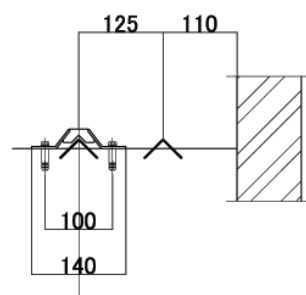
Wall Opening (WO)	① Rail Dimension (1)	② Dimension to rail	③ Rail Dimension (2)
5000+5500	9000	3000	3000
5501+6000	9500	3000	3000
6001+6500	10500	3500	3500
6501+7000	11000	3500	3500
7001+7500	12000	4000	4000
7501+8000	12500	4000	4000



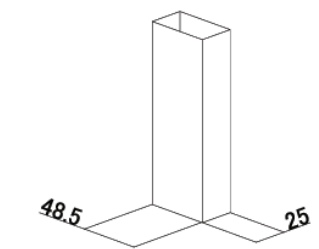
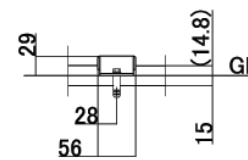
Roller detailed drawing (A)



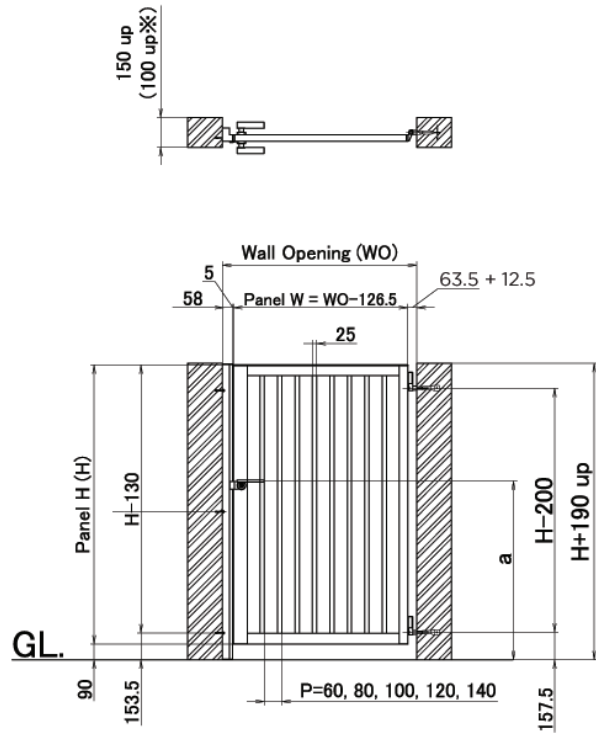
Roller detailed drawing (B)



Stopper roller detailed drawing (C)



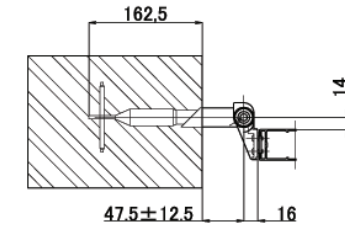
Lattice detailed drawing (D)



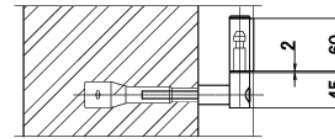
Single swing

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

Wall thickness 150mm or more

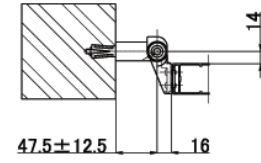


<Top view>

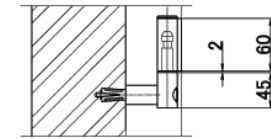


<Front view>

Wall thickness 100 to 150mm



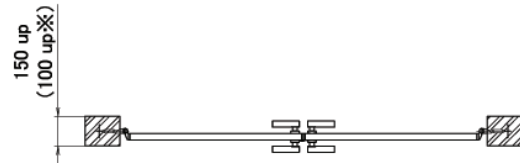
<Top view>



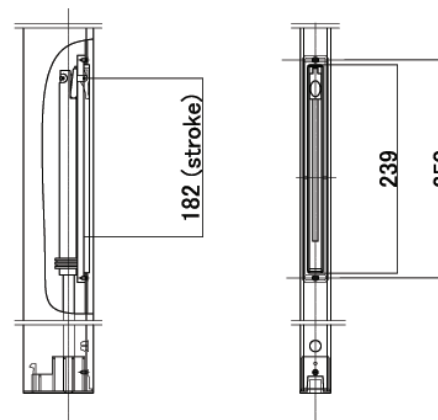
<Front view>

\*Please prepare M8 Anchor bolt at site

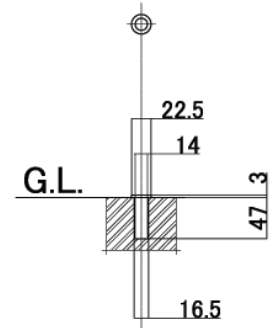
Hinge detail



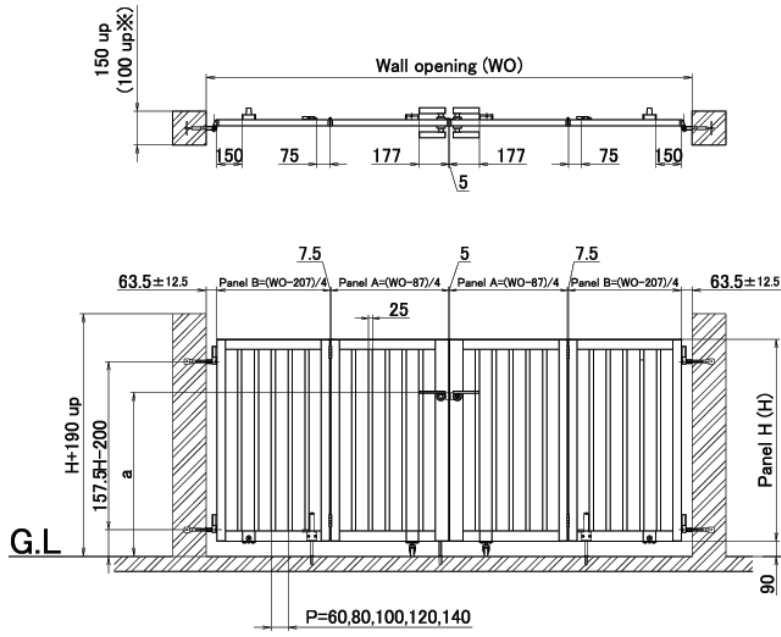
Double swing



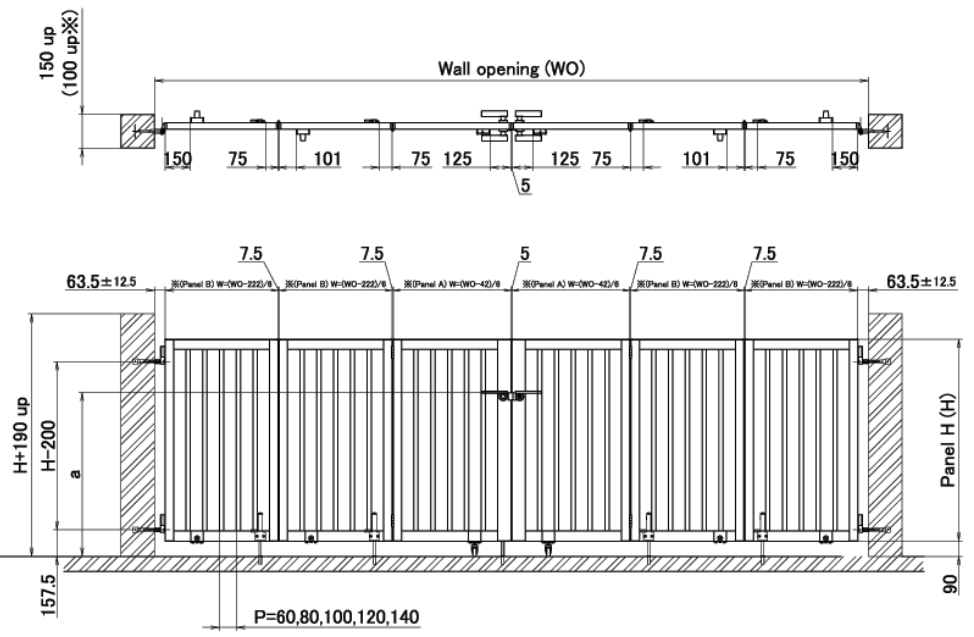
Dead bolt detail



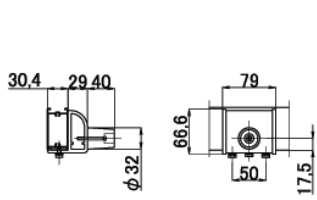
Dead bolt catch detail



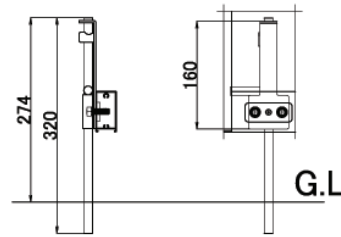
Folding gate (4 panels)



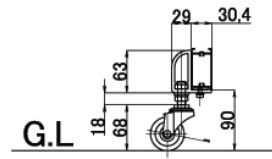
Folding gate (6 panels)



Stopper detail



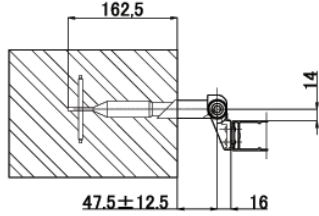
Drop bar detail



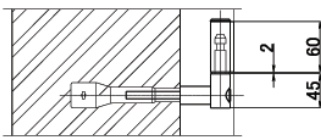
Roller detail

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

Wall thickness 150mm or more



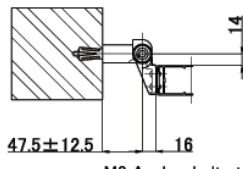
<Top view>



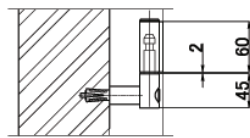
<Front view>

Hinge detail

Wall thickness 100 to 150mm



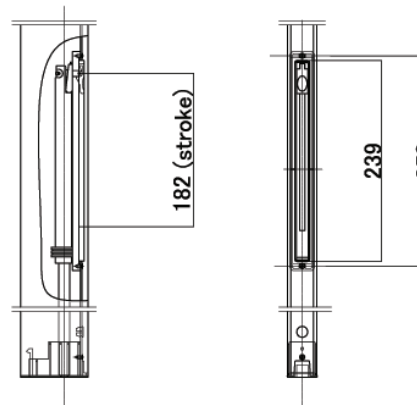
<Top view>



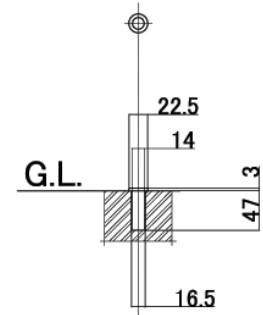
<Front view>

Hinge detail

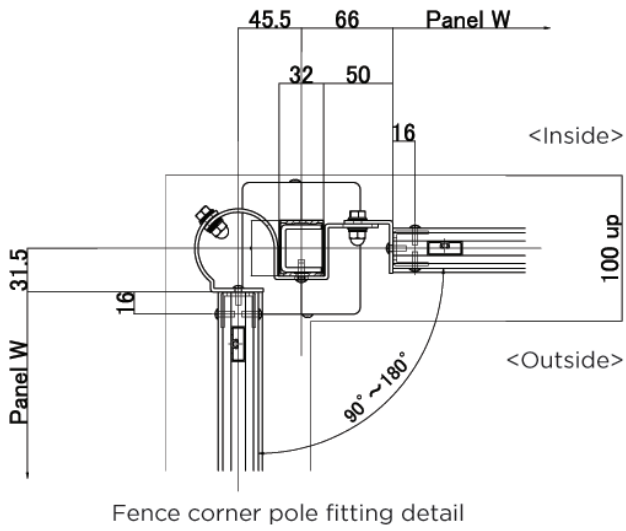
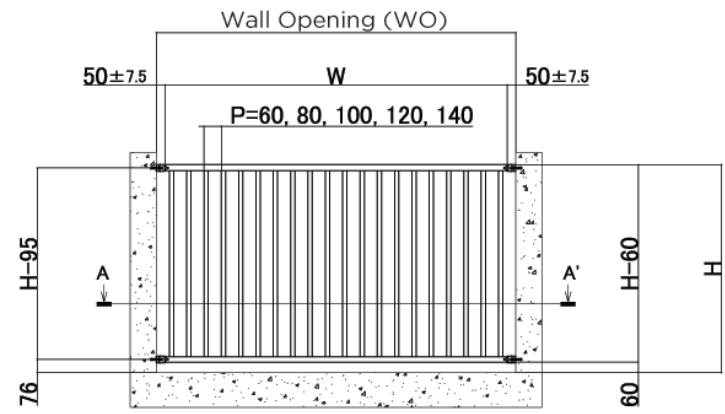
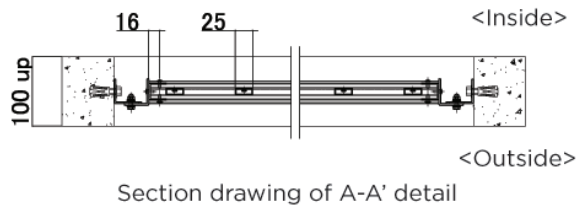
\*Please prepare M8 Anchor bolt at site



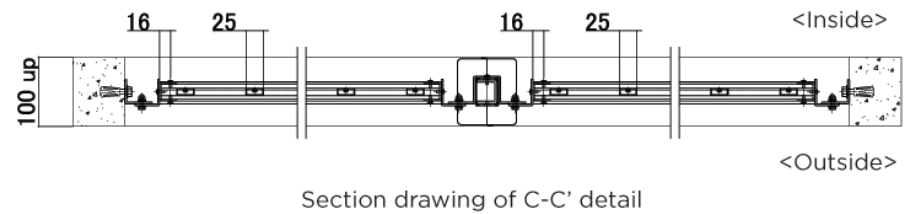
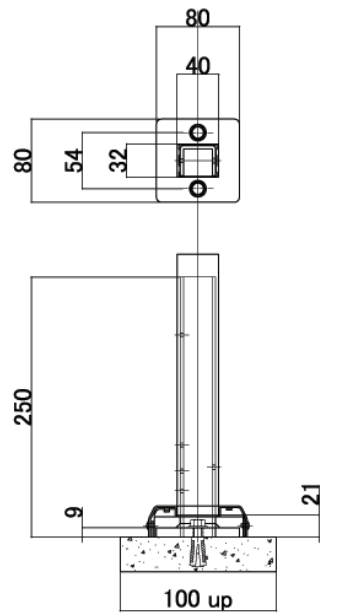
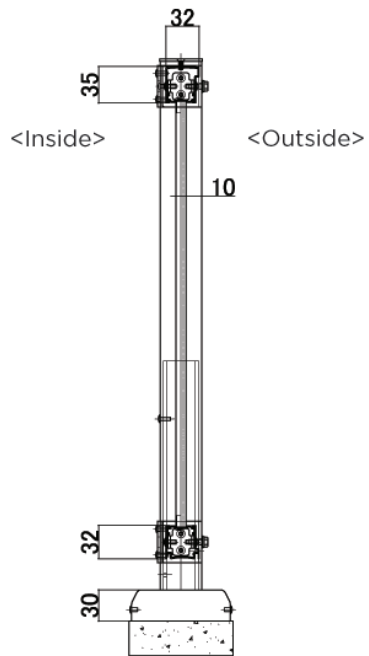
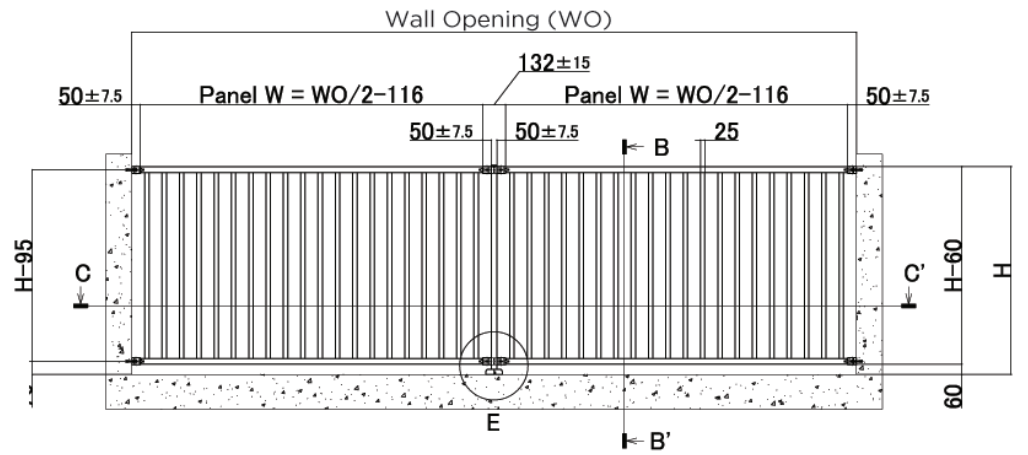
Dead bolt detail



Dead bolt catch detail



Fence straight pole fitting



Section drawing of B-B' detail

Section drawing of E detail

