

TOSTEM

PRE-ENGINEERED WINDOWS

PART OF **LIXIL**

GRANTS

THE BIGGER & BETTER WINDOW

LIXIL

Link to Good Living

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<http://www.LIXIL.TOSTEM.co.th>

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ABOUT LIXIL

Every person on the planet dreams of a better home. LIXIL makes that possible with pioneering housing and water products.

A better home is made up of surprisingly simple things – doors and windows that connect you with the world outside; baths to escape in after a long day; kitchens that unleash creativity; toilets that provide cleanliness and comfort; showers and faucets to experience water in new ways; interiors and exteriors that bring spaces to life.

LIXIL makes better homes a reality for everyone, everywhere.

Drawing on our Japanese heritage, we create and innovate using world-leading technologies to make high quality products that solve everyday, real life challenges.



But the LIXIL difference isn't what we do, it's the way we do it:

Meaningful design. We innovate because we should, not because we can.

Entrepreneurial spirit. Working with partners, experimenting often, and learning fast from failures to move with speed.

Access to all. Adapting existing technologies to meet universal consumer needs.

Responsible business growth. Impacting global issues like sanitation, water conservation and environmental sustainability.

We are proud that our products touch the lives of more than a billion people every day, but there is potential to do so much more.

Being path pavers in consumer centricity uncovers opportunities for real differentiation enabling us to find a unique, clutter breaking proposition. Our deep understanding of our consumers' lives drive us to create truly differentiated products, services and business models. As we continue to expand across Asia Pacific, our endeavor is to reach beyond our current channels and capabilities, to understand existing and undiscovered needs and become relevant to even more people. We will learn, experiment and continue to create solutions for better living spaces for today and tomorrow.

The real work starts now...

LIXIL Link to Good Living

LIXIL

GROHE

American Standard

INAX

TOSTEM

DXV

GRANTS

SERIES

GRANTS series is the flagship series of TOSTEM. The innovative design results in larger surface area of glass for panoramic view. Taking the standard of aluminium windows and doors to another level.



Wind pressure
ASTM E330: 2000 Pa



Air tightness
ASTM E283: 10.7m³ / h·m²



Water tightness
ASTM E300: 300 Pa



Noise insulation
JIS: 25 dB

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

Frame depth	101.6 mm/ 120 mm (Sliding)
Height of sill	50 mm
Glass thickness	Up to 31.5 mm

UNIQUE FEATURES



Conceal panel design



Overlapping meeting stiles (4 Panels Sliding)



"L-Fit" design hardware, concealed hinges



Double barrier drainage system



Proportionally designed Mullion and Transom



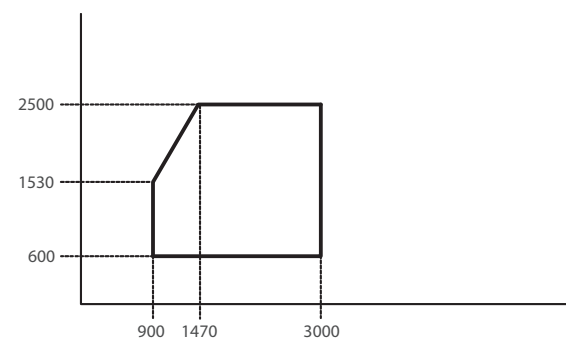
Concealed ventilation system (Optional)

WINDOW

Sliding Window (2 panels on 2 tracks)



- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option

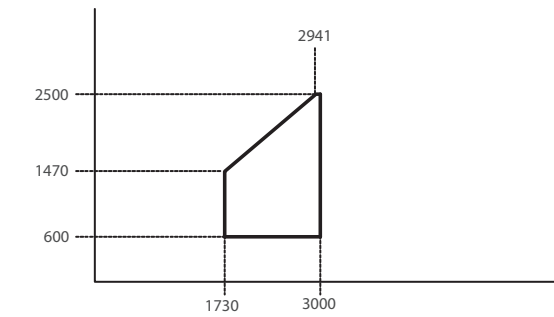


WINDOW

Sliding Window (3 panels on 2 tracks) SFS



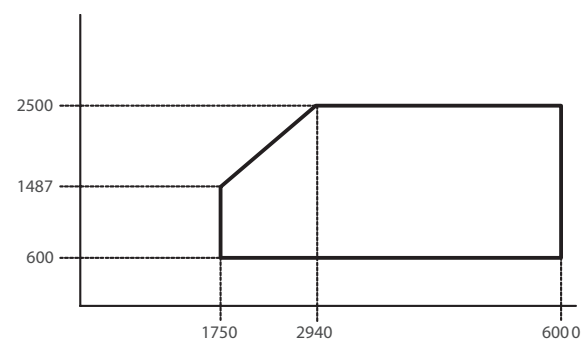
- Available in SG and IG unit
- Handle option



Sliding Window (4 panels on 2 tracks)



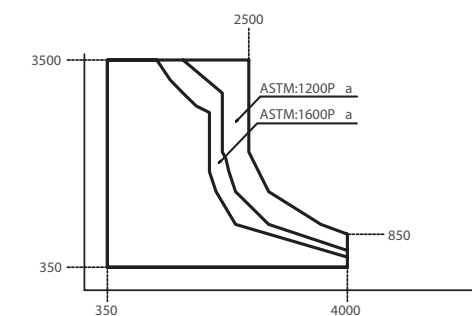
- Available in SG and IG unit
- Handle option



FIX Window



- For oversize fix windows, please consult with our technician

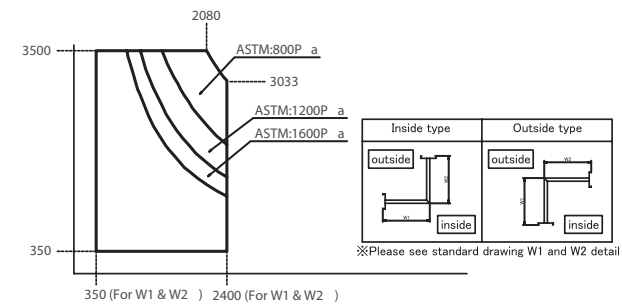


WINDOW

Corner FIX Window



- Only available in SG
- Only available with sealant finish
- Both in/outward corner available

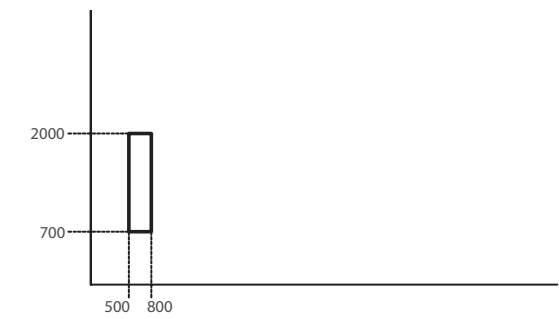


WINDOW

Casement Window



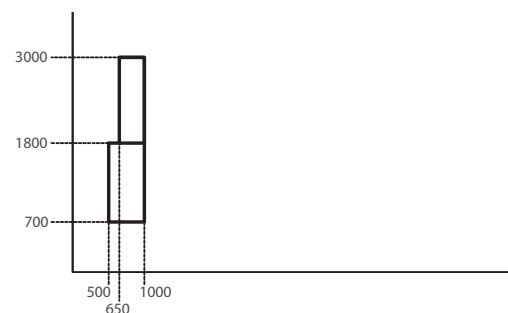
- Available in SG and IG unit
- In case of glass thickness over 8 mm and IG unit please consult with our technician
- Select from L/R



Awning Window



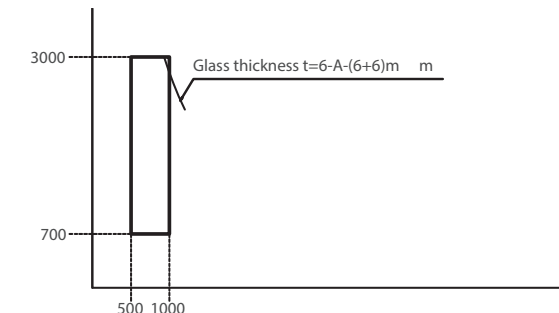
- Available in SG and IG unit
- In case of IG, please consult with our technician for size and performance



Casement Window (with hinge)



- Available in SG and IG unit
- Select from L/R

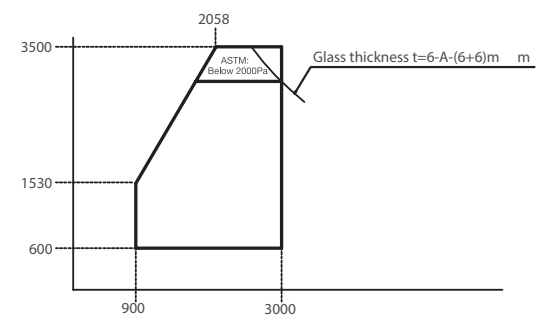


DOOR

Sliding Door (2 panels on 2 tracks)



- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option

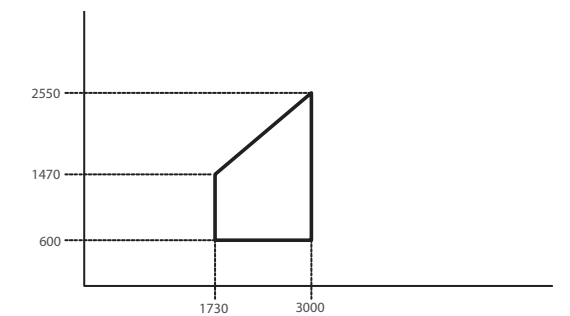


DOOR

Sliding Door (3 panels on 2 tracks) SFS



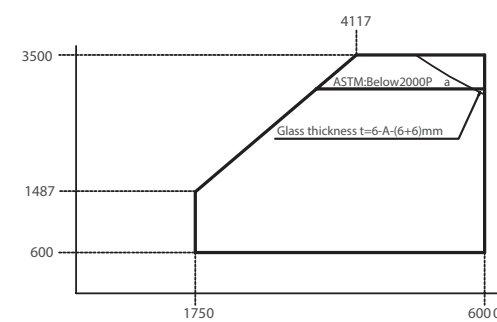
- Available in SG and IG unit
- Handle option



Sliding Door (4 panels on 2 tracks)



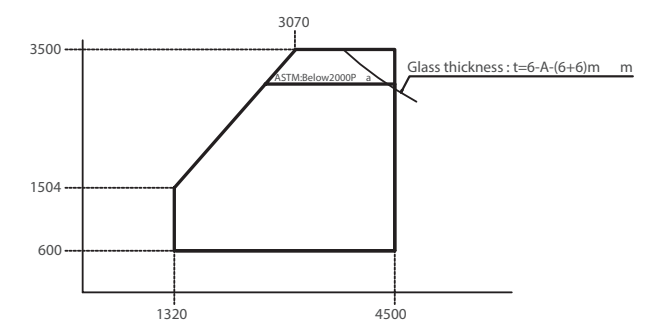
- Available in SG and IG unit
- Handle option



Sliding Door (3 panels on 3 tracks)

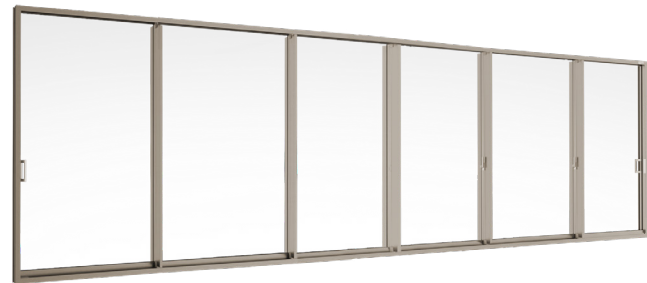


- Available in SG and IG unit
- Select panel position from L/R
- Handle option

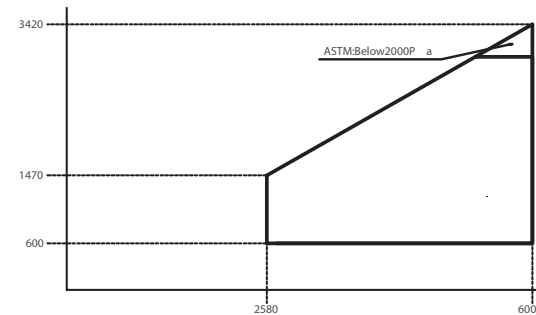


DOOR

Sliding Door (6 panels on 3 tracks)



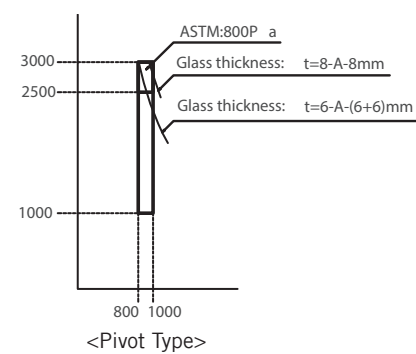
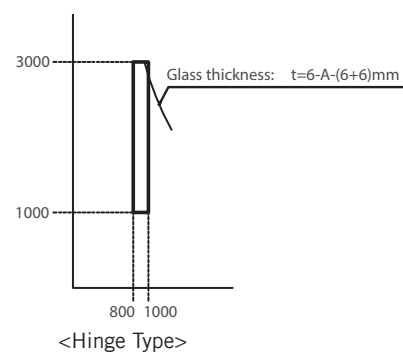
- Available in SG and IG unit
- Handle option



Out-Swing Door (Single)



- Available in SG and IG unit
- Pivot hinge option
- Door closer NOT available
- Select from L/R



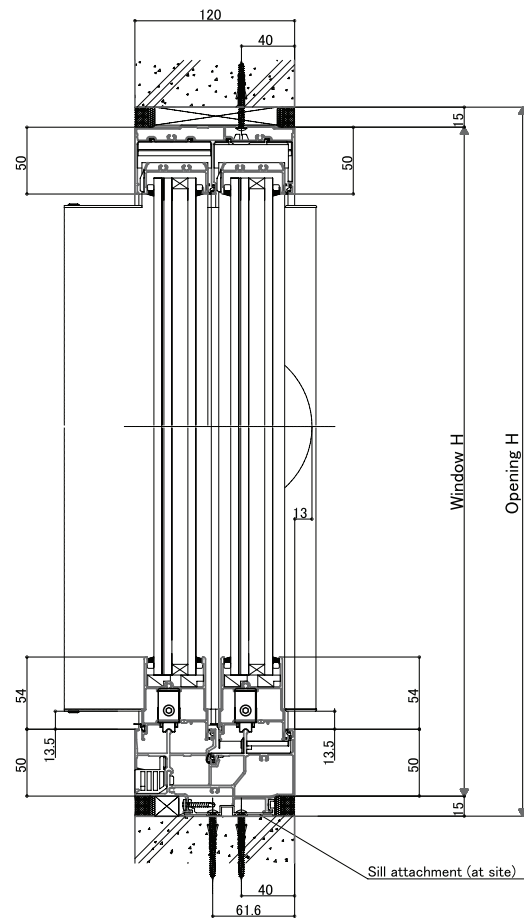
MIX & COMBINATION WINDOW

- Mullions are available for each window and door. Please consult with our sales representative for selection.
 - 180°mullion. (Standard and Reinforced)
 - 90°mullion. (Only for Outward Corner)

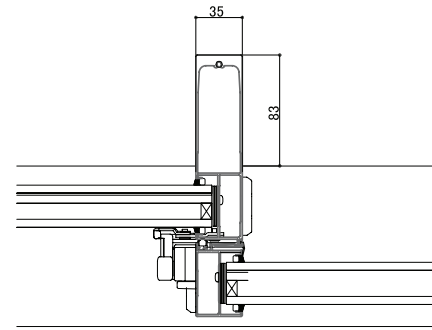
UNIT WINDOWS

Bottom Windows	Top Windows			
	Single Awning	Single Casement	Single Fix	Sliding
Single Awning			●	
Single Casement			●	
Swing Door			●	
Single Fix	●	●	●	
Double Fix				●

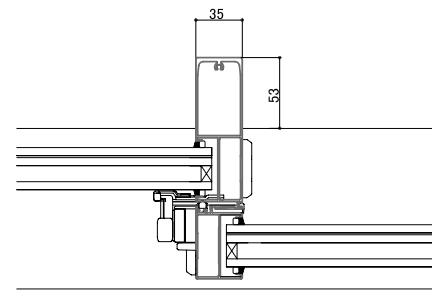
GRANTS WINDOW SERIES



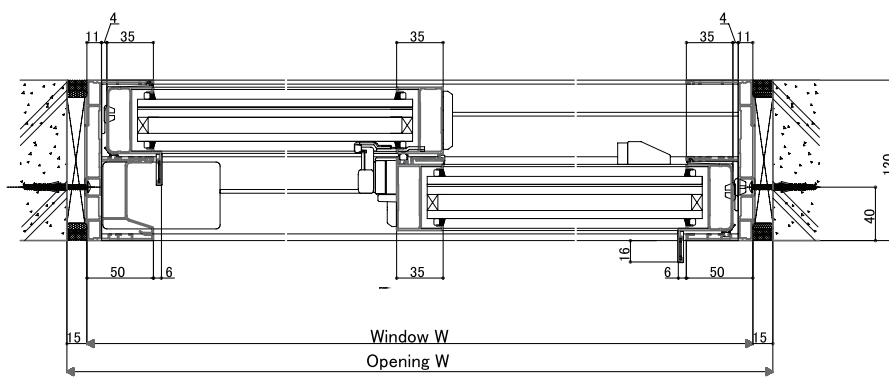
<Vertical section: 2 panels sliding window >



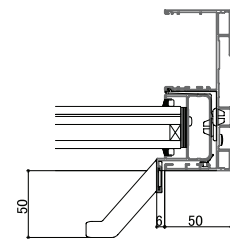
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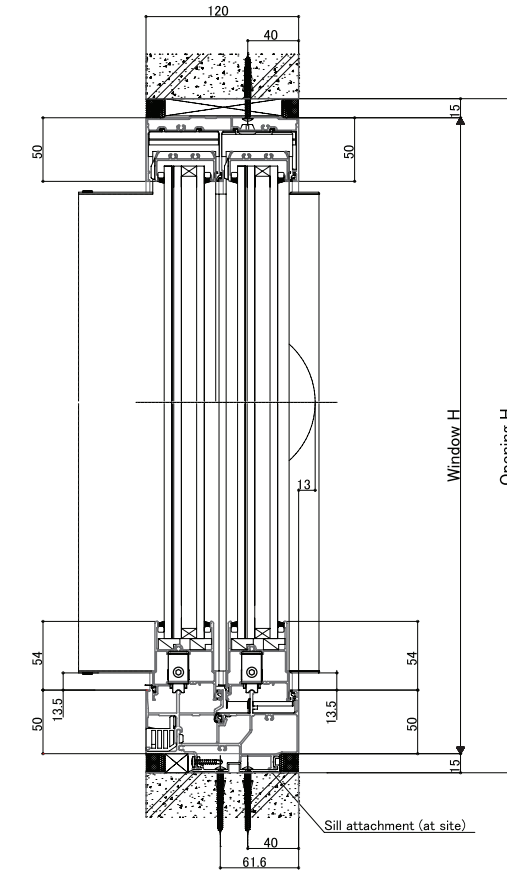
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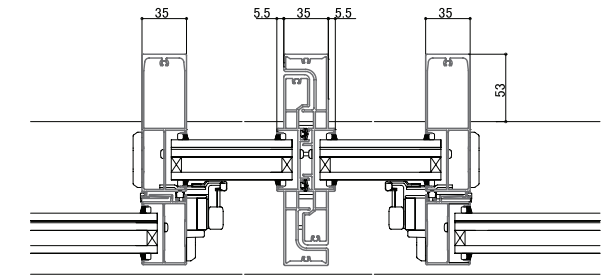
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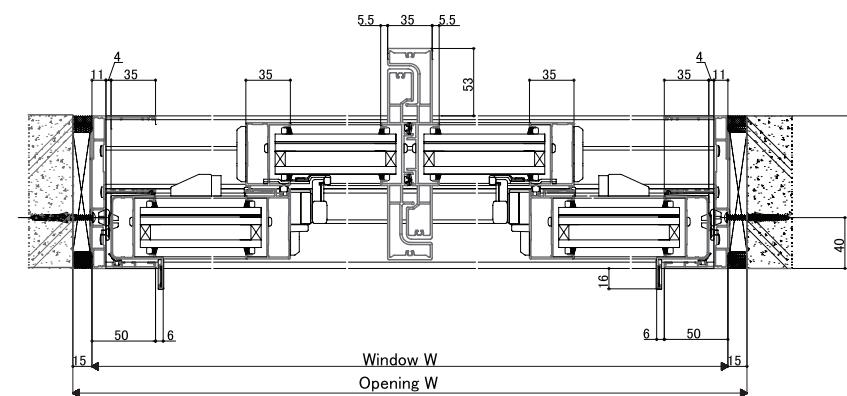
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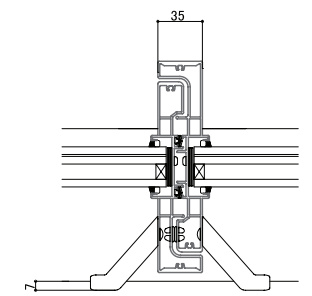
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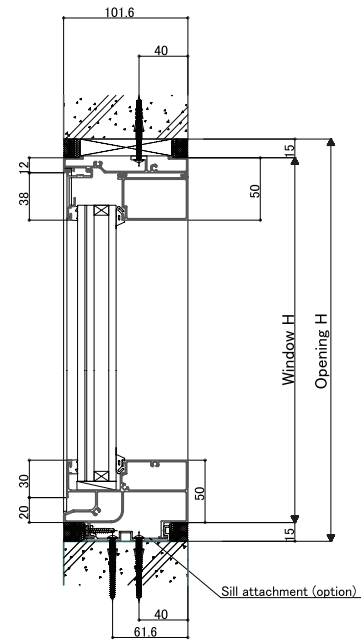
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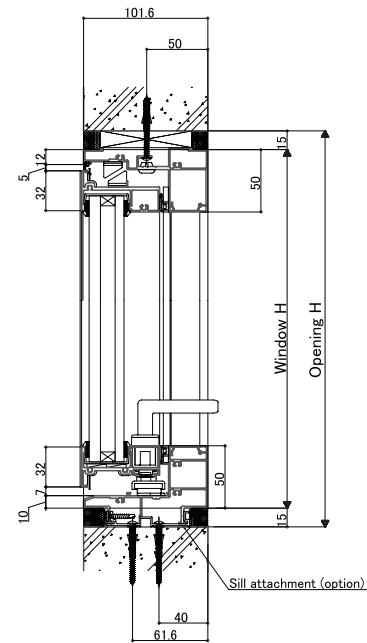
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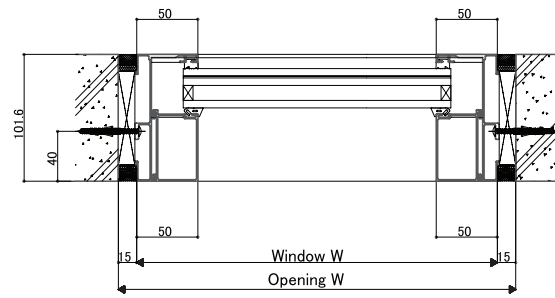
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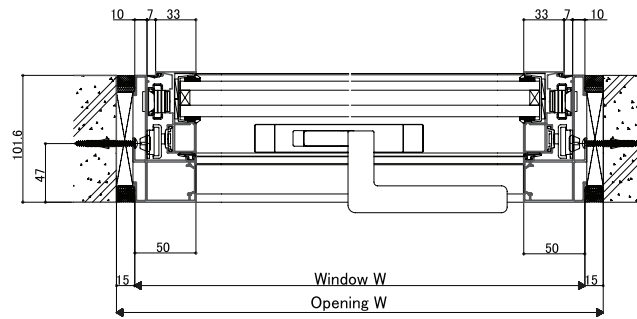
<Vertical section: Fix window><



Vertical section: Awning window>

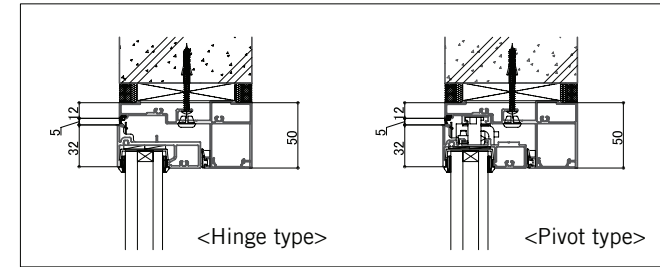


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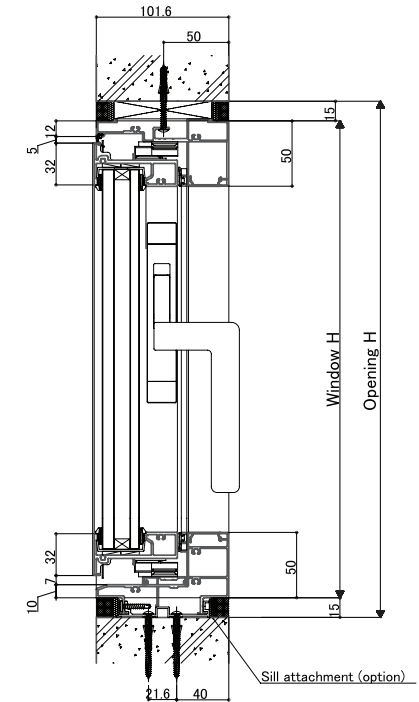
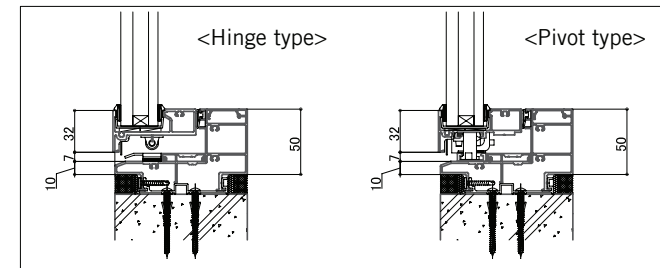


<Horizontal section: Awning window>

<Head detail>

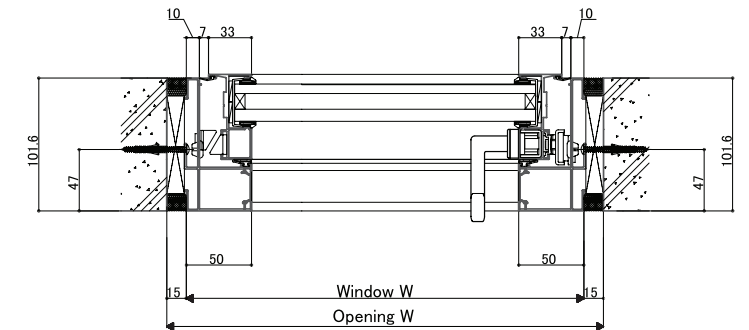
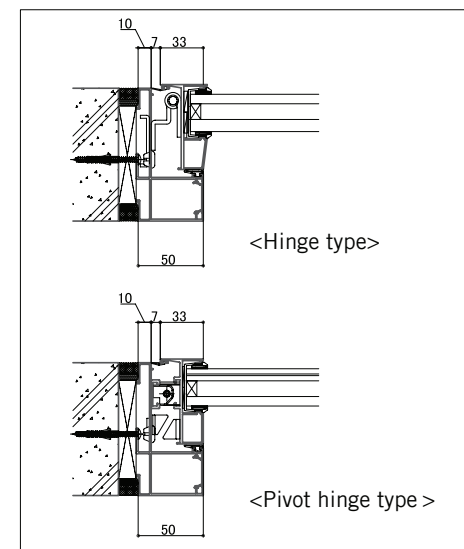


<Sill detail>



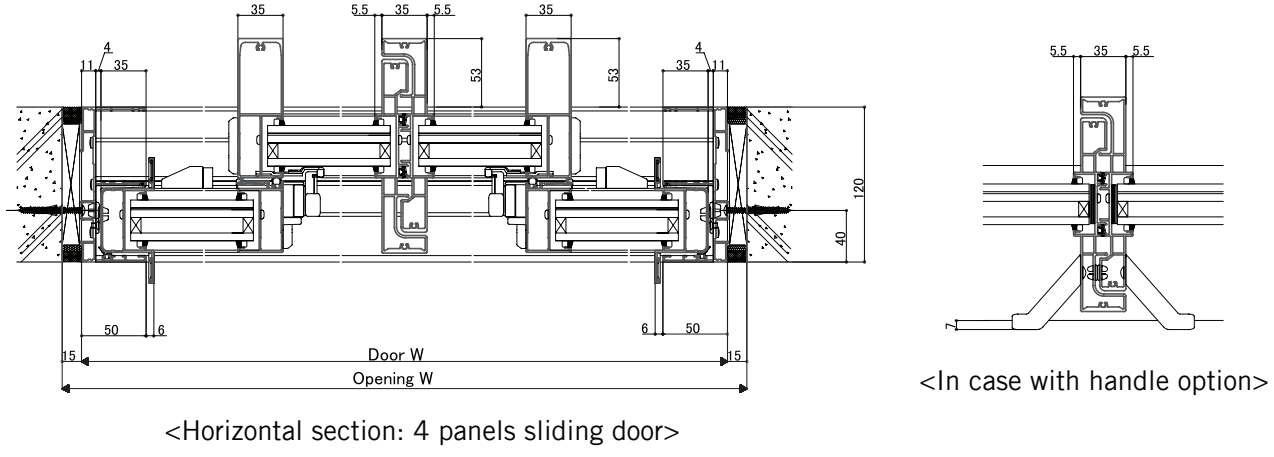
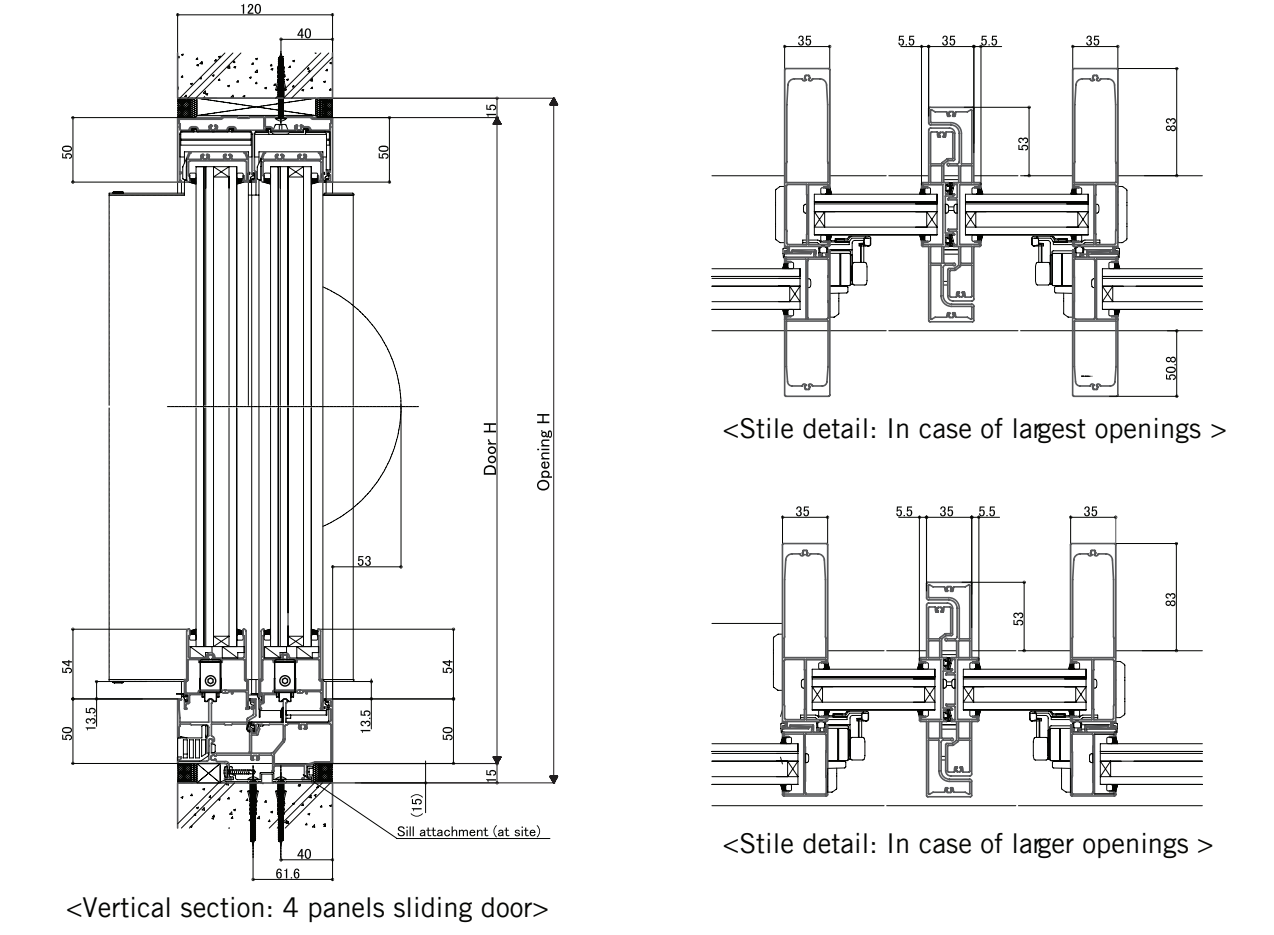
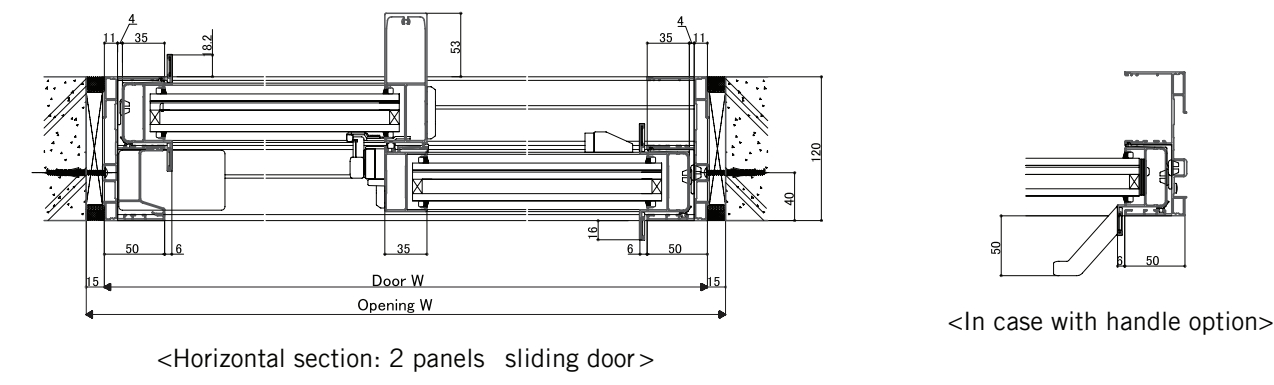
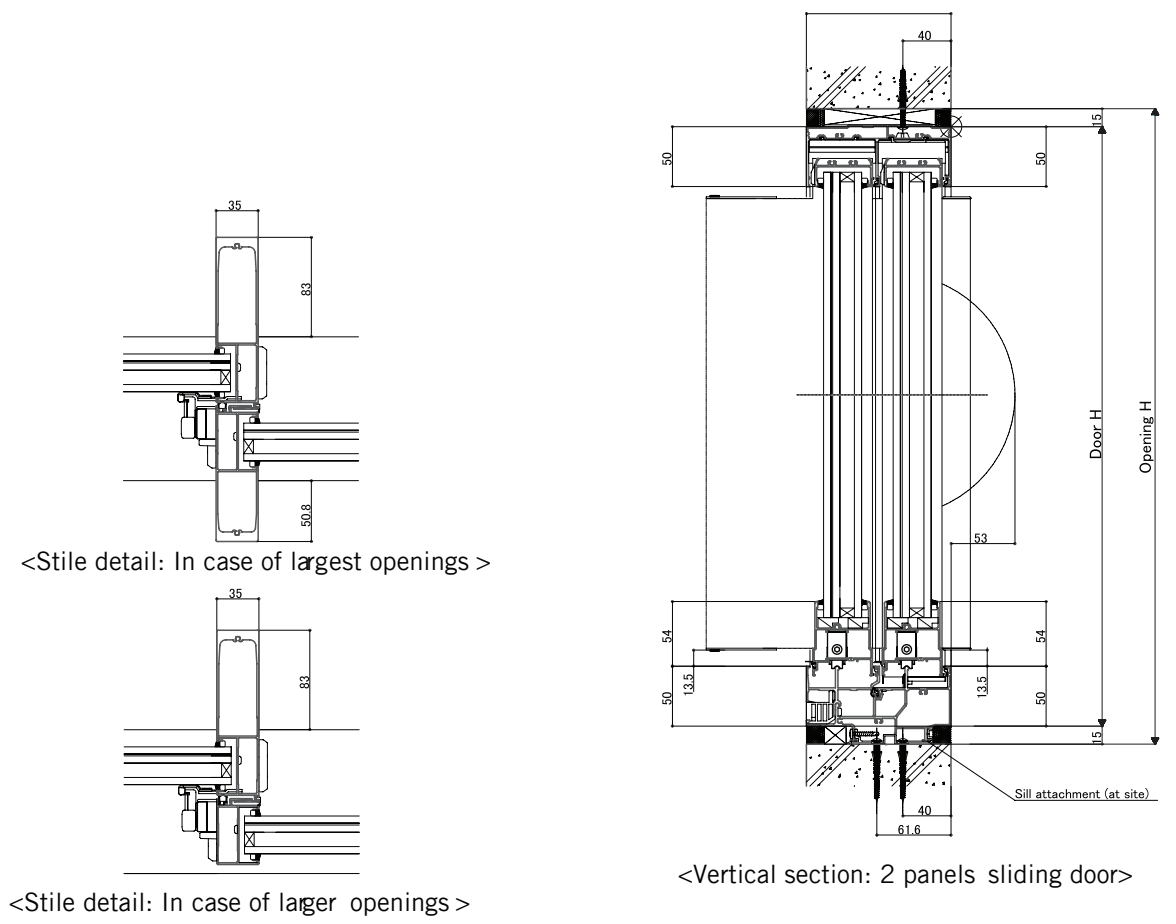
<Vertical section: Casement (with friction stay)>

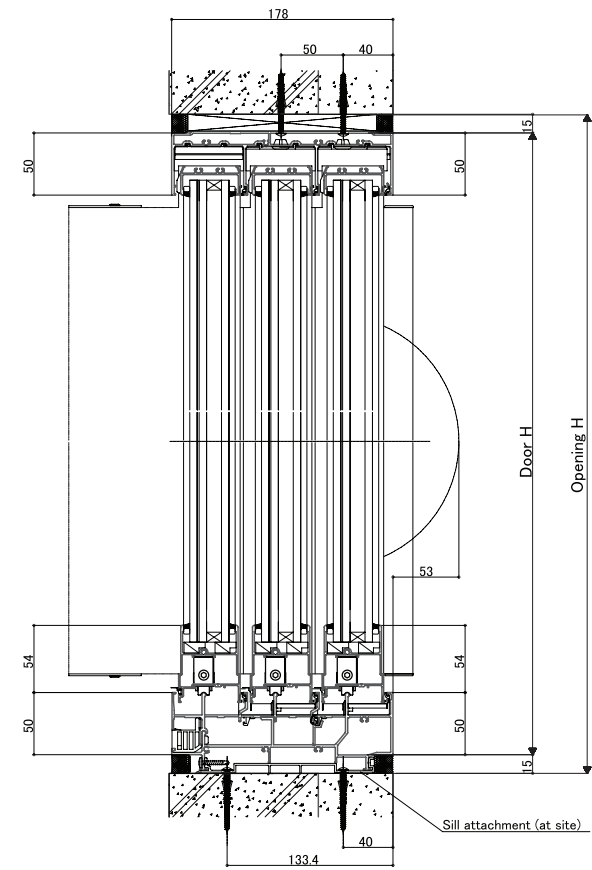
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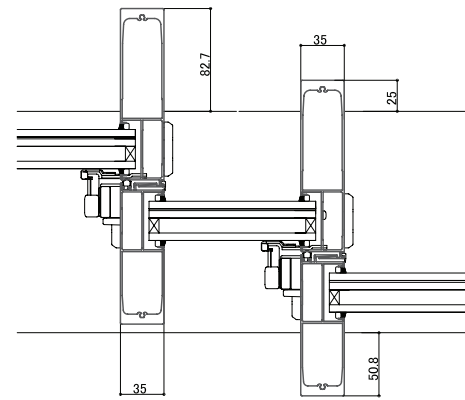
<Horizontal section: Casement (with friction stay)>

GRANTS DOOR SERIES

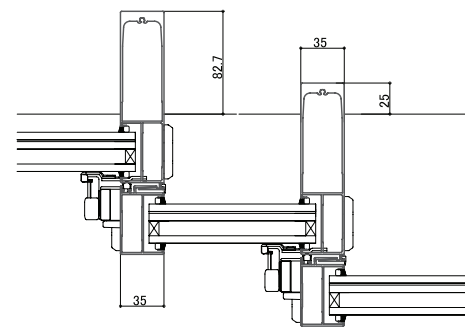




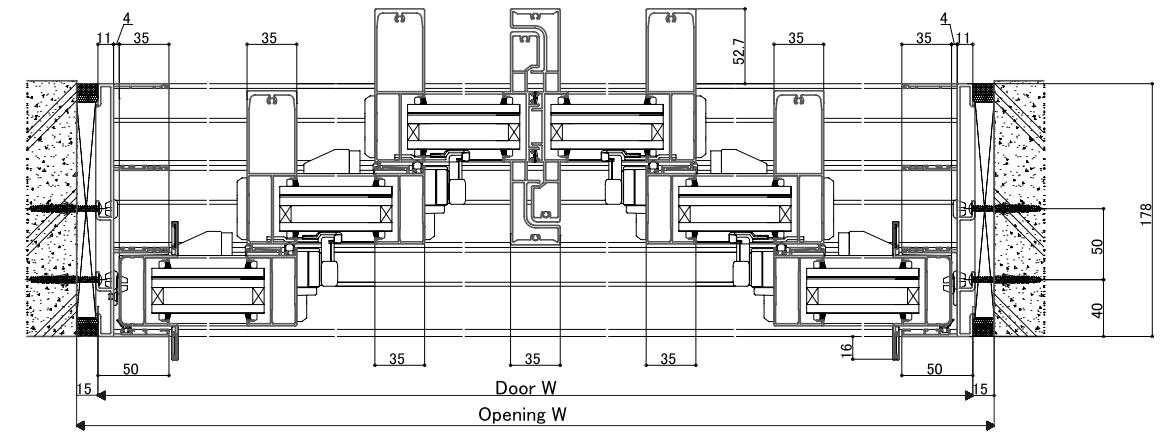
<Vertical section: 3 panels sliding door>



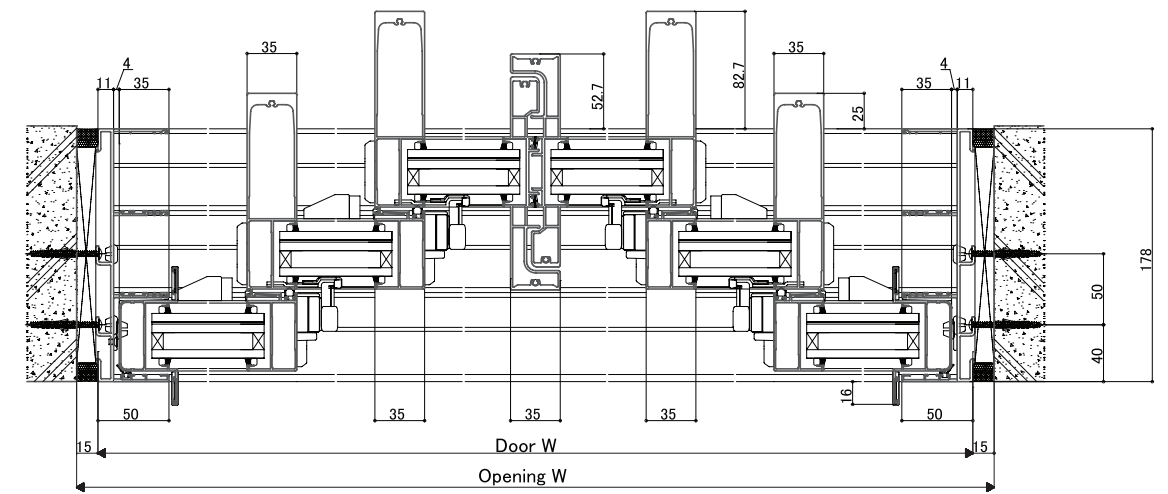
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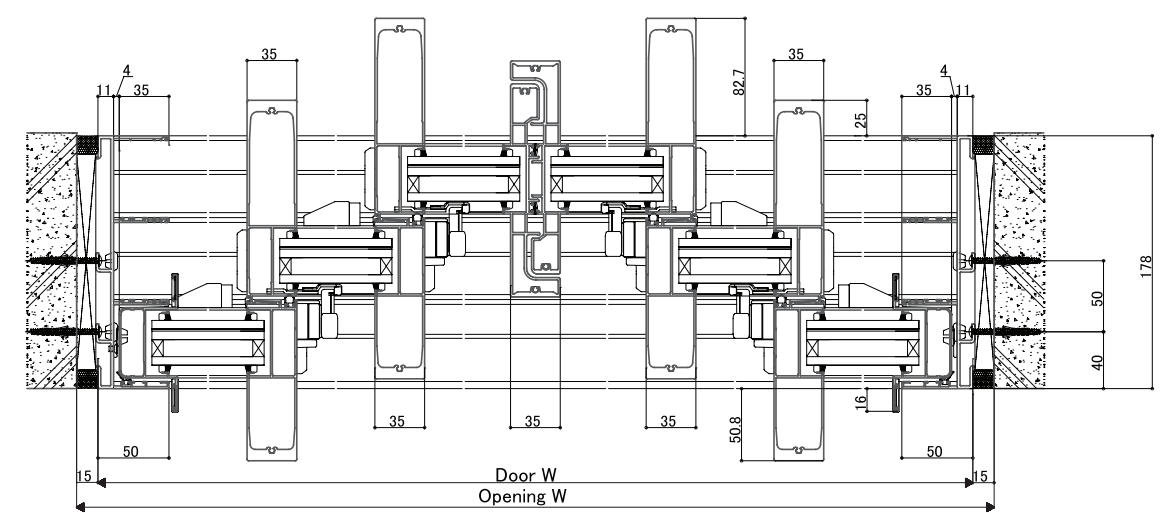
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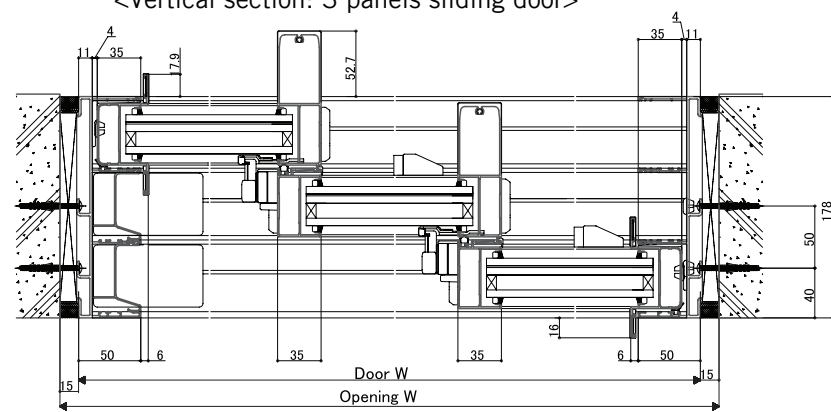
<Horizontal section: 6 panels sliding door>



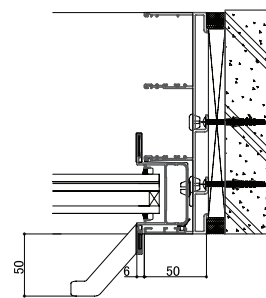
<Horizontal section: 6 panels sliding door (larger) >



<Horizontal section: 6 panels sliding door (largest) >

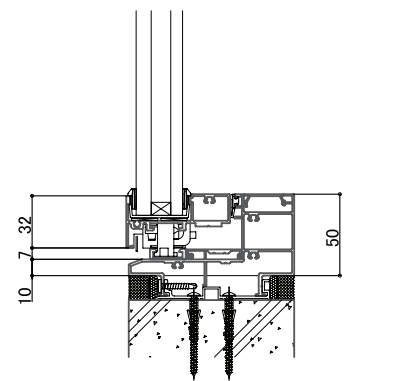


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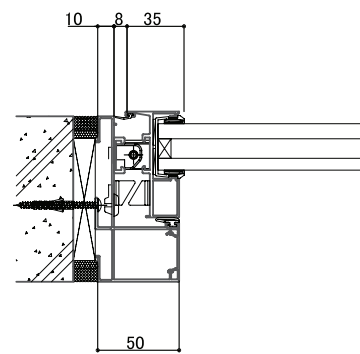


<In case with handle option>

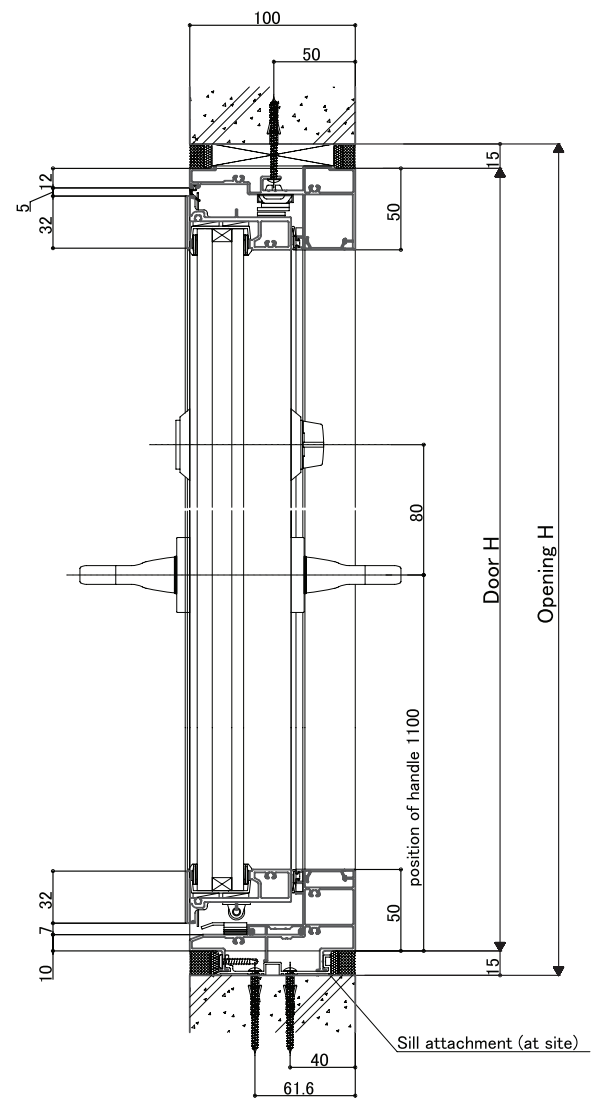
GRANTS COMBINATION



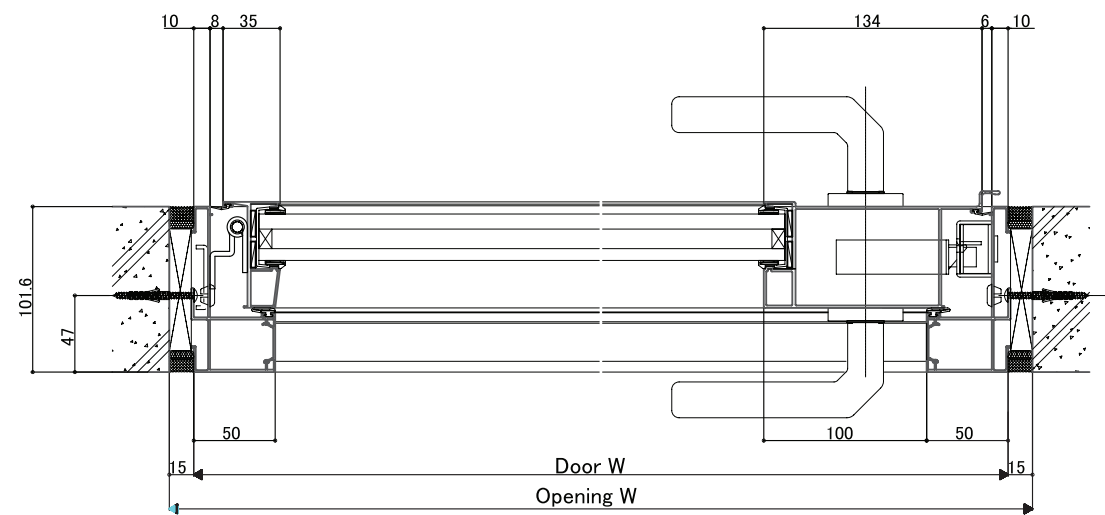
<Sill detail: Pivot hinge>



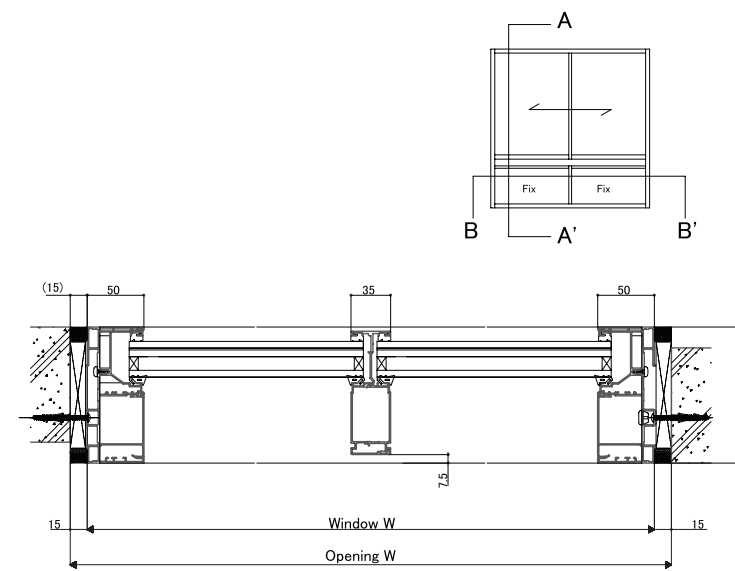
<Jamb detail: Pivot hinge>



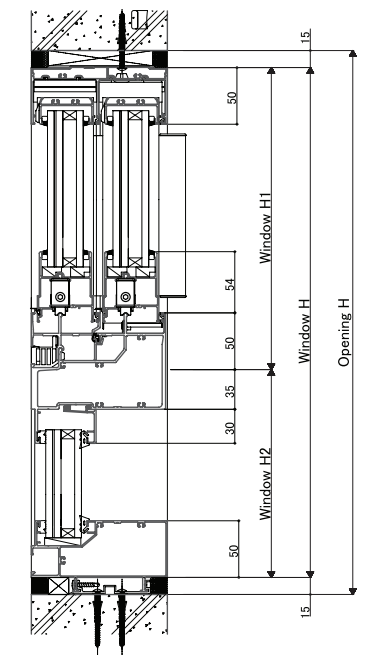
<Vertical section: Single out-swing door>



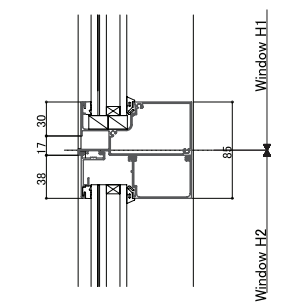
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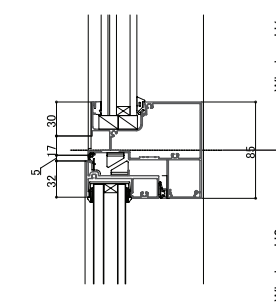
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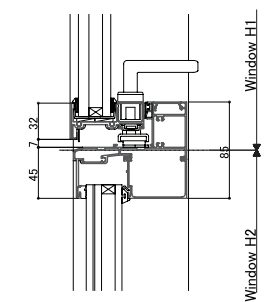
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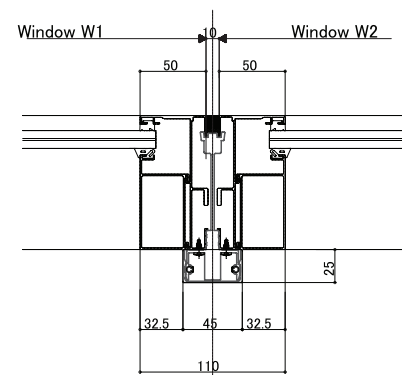
<Vertical: Fix/Fix transom>



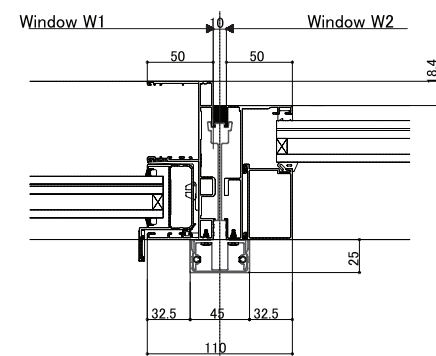
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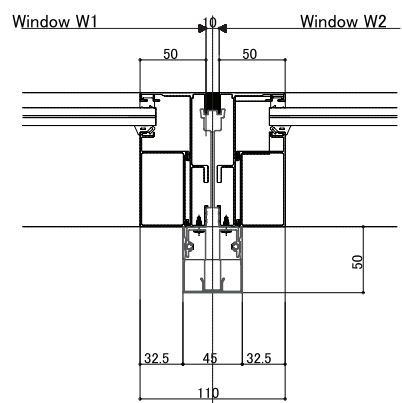
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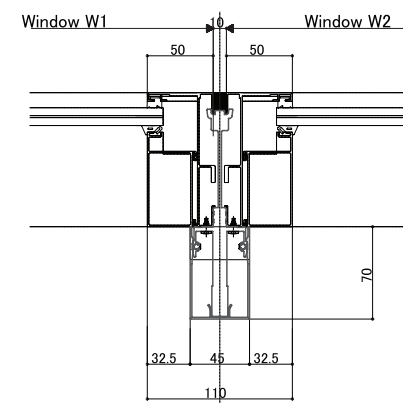
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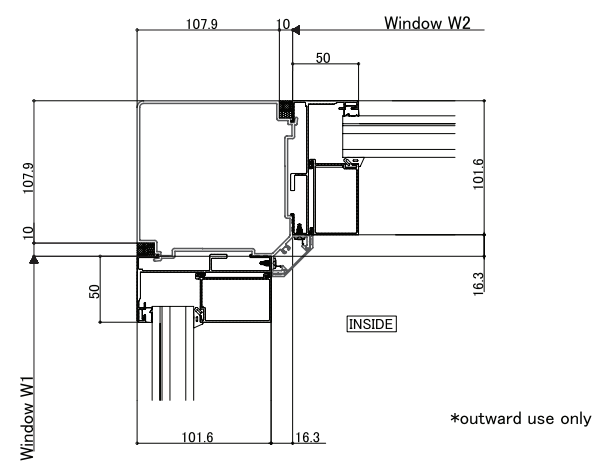
<Mullion type A with sliding window>



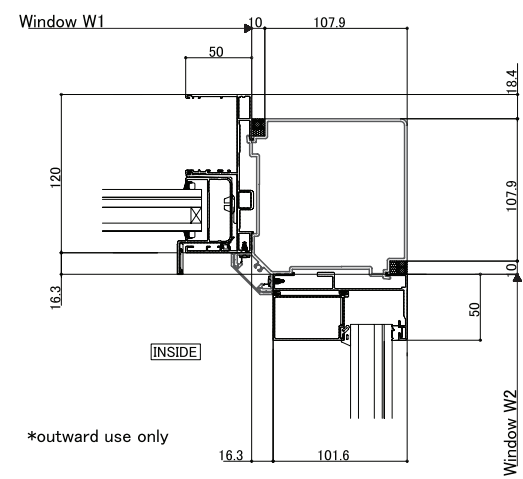
<Mullion type B>



Mullion type C>



<Corner mullion>



<Corner mullion with sliding window>