TOSTEM



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CORPORATE PROFILE

Making better homes a reality for everyone, everywhere

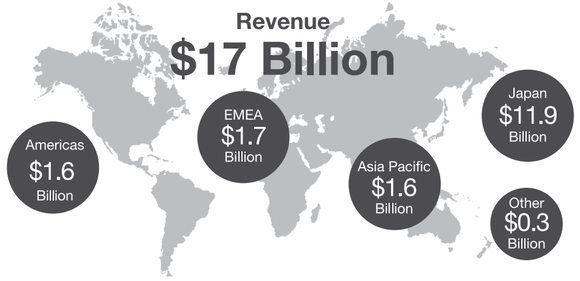
LIXIL GROUP

Every person on the planet dreams of a better home. LIXIL makes that possible with pioneering water and housing products. Born in 2011 through the merger of five of Japan's most successful building materials and housing companies, we draw on our Japanese heritage to create world-leading technology and high-quality products that transform homes. We make things that matter to all sorts of different people, to the many communities we are part of, and to sustainably support the world we live in. Today, our approach comes to life through some of the most trusted global brands in our industry, including INAX, GROHE, American Standard, and TOSTEM. We are proud that our products touch the lives of more than a billion people every day, but believe we have the potential to still do so much more.

Membuat rumah yang lebih baik menjadi nyata bagi semua orang, dimanapun itu

LIXIL GROUP

Setiap orang di planet ini memimpikan rumah yang lebih baik. LIXIL mewujudkannya dengan menjadi pionir produk air dan perumahan. Lahir pada tahun 2011 melalui penggabungan lima perusahaan bahan bangunan dan perumahan paling sukses di Jepang, kami memanfaatkan warisan Jepang kami untuk menciptakan teknologi terkemuka dunia dan produk berkualitas tinggi yang mengubah rumah. Kami membuat berbagai hal yang penting bagi setiap orang, bagi berbagai komunitas dimana kami menjadi bagian, dan untuk mendukung dunia tempat kami tinggal secara berkelanjutan. Saat ini, pendekatan kami telah nyata melalui berbagai merek global tepercaya di industri kami, termasuk INAX, GROHE, American Standard, dan TOSTEM. Kami bangga dengan produk kami yang menyentuh kehidupan lebih dari satu miliar orang setiap hari, dan yakin bahwa kami masih memiliki potensi untuk melakukan lebih banyak lagi.



Patents/design rights owned

10,000 +

R&D investment

$260 million

Factories
103 in 16 countries

Showrooms
127 in 18 countries

Employees
Approx. 75,000

People using our products: One billion



LIXIL housing business in Indonesia

PT. LIXIL Aluminium Indonesia as part of LIXIL Group brings the heritage of TOSTEM to enhance people's living spaces. Establish in Indonesia since 2013, we grow in the era of innovation with the principles laid and credibility to become one of the most respected names in the building industry.

Bisnis perumahan LIXIL di Indonesia

PT. LIXIL Aluminium Indonesia sebagai bagian dari LIXIL Group menghadirkan warisan TOSTEM dari Jepang untuk meningkatkan ruang hidup. Berdiri di Indonesia sejak tahun 2013, kami berkembang di era inovasi dengan prinsip-prinsip yang ditetapkan dan kredibilitas untuk menjadi salah satu nama yang dihormati di industri bangunan.

TOSTEM Factory in Thailand
Established in 1987

Capacity	: 7,000 tons/month
Products	: Aluminium windows, doors and exteriors Aluminium extrusion bars Aluminium OEM industrial parts
Certification	: ISO 9001, ISO 14001, JIS H4100, JIS H8602, ISO 9002
Factory	: Navanokorn industrial Estate, Phathumthani
Showroom	: Crystal Design Center, Bangkok
Employees	: Approx. 6,200

TOSTEM Factory in Indonesia
Established in 2014

Products	: Alumunium windows, doors OEM automotive parts
Factory	: Pondok ungu, Bekasi West Java
Showroom	: Let. Jend. S. Parman Kav. 32-34, Jakarta



TOSTEM BRAND

As the leading Japanese brand for global housing and building materials, TOSTEM stands apart as a one that deeply understands the needs of people. TOSTEM's comprehensive range of solutions ensures comfortable home living driven by a simple and seamless user experience. We develop our people-centric home solutions by drawing on a half-century of experience and expertise in balancing design and technology to anticipate the needs of people today and their families for generations to come.

TOSTEM engages in product development, manufacturing, and marketing of a diverse range of home products, such as aluminium windows and doors, entrance doors, and exterior products. Our product portfolio allows us to provide complete "lifestyle solutions" that are flexible, integrated, and coordinated to consumer needs, delivering everyday satisfaction.

Sebagai merek Jepang terkemuka secara global untuk perumahan dan bahan bangunan, TOSTEM merupakan salah satu merek berbeda yang sangat memahami kebutuhan orang banyak. Rangkaian solusi TOSTEM yang komprehensif memastikan kehidupan rumah yang nyaman didorong oleh pengalaman pengguna yang sederhana dan tanpa hambatan. Kami mengembangkan solusi rumah yang berpusat pada manusia dengan memanfaatkan 50 tahun pengalaman dan keahlian kami dalam menyeimbangkan desain dan teknologi untuk mengantisipasi berbagai kebutuhan saat ini dan untuk generasi yang akan datang.

TOSTEM terlibat dalam pengembangan produk, manufaktur, dan pemasaran berbagai macam produk perumahan, seperti jendela dan pintu aluminium, pintu utama, dan produk eksterior. Portofolio produk kami memungkinkan kami untuk memberikan "solusi gaya hidup" lengkap yang fleksibel, terintegrasi, dan terkoordinasi dengan kebutuhan konsumen, memberikan kepuasan yang konsisten

TOSTEM
PRE-ENGINEERED SYSTEM



All products of TOSTEM are developed and designed, manufactured and assembled under an integrated production process with strict TOSTEM quality control. Extrusion dies, aluminium billet, extrusion profiles, coating, pre-engineered and hardware assembly processes are all done in TOSTEM's factory.

The greatest benefit of TOSTEM's pre-engineered system is the ability to build windows with consistent quality. With a single screw driver, anyone can again and again consistently build the same high quality window system.

We strive to achieve constant excellence in all the production cycles, as well as in our systems.

Semua produk TOSTEM dikembangkan dan dirancang, diproduksi dan dirakit dalam proses produksi terintegrasi dengan kontrol kualitas TOSTEM yang ketat. Proses ekstrusi cetakan, billet aluminium, ekstrusi profil, pelapisan, pra-rekayasa dan perakitan perangkat keras, semuanya dilakukan di pabrik TOSTEM.

Manfaat terbesar dari sistem pra-rekayasa TOSTEM adalah kemampuannya dalam menghasilkan pintu dan jendela dengan kualitas yang konsisten. Dengan satu obeng, siapa pun dapat terus-menerus membangun pintu dan jendela bersistem dengan kualitas tinggi yang sama.

Kami terus berusaha untuk mencapai keunggulan yang konstan di semua siklus produksi, juga dalam sistem kami.



Designing into every details...

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 adalah desain pegangan yang "pas" dengan "menjalani hidup". Desain terstandarisai untuk pegangan jendela dan pintu ini menciptakan rasa keseragaman dan kenyamanan di ruang hidup.









L-Fit

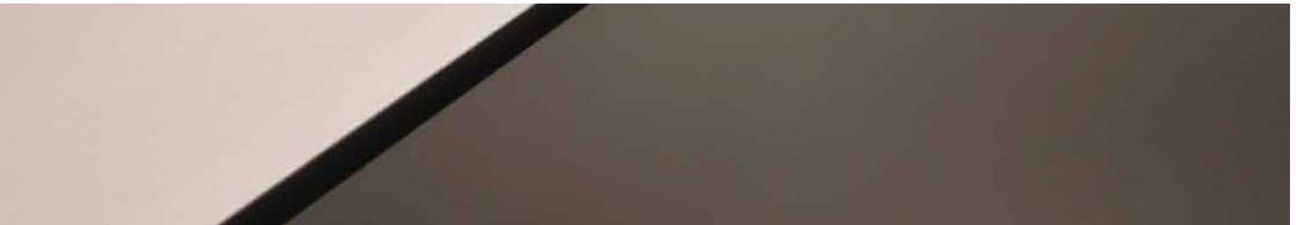
TOSTEM HOUSING SOLUTION

A portfolio of housing products delivering comfort for everyone, everywhere ...





Natural White | Natural Silver | Ivory White | Shine Grey | Autumn Brown | Natural Black



COLORING PROCESS

Maximizing the strength and beauty of aluminium

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

Benefit of TEXGUARD

- Color retention – TEXGUARD protect the aluminium against harsh environmental conditions, making the color gloss stay for at least 40 years.
- Increased hardness – Dense coating of TEXGUARD improve hardness and provides scratch resistance for the aluminium surface.
- Ease of cleaning – Dust and dirt accumulation resistance quality of TEXGUARD makes the task of cleaning the surface less effort.

Memaksimalkan kekuatan dan keindahan aluminium

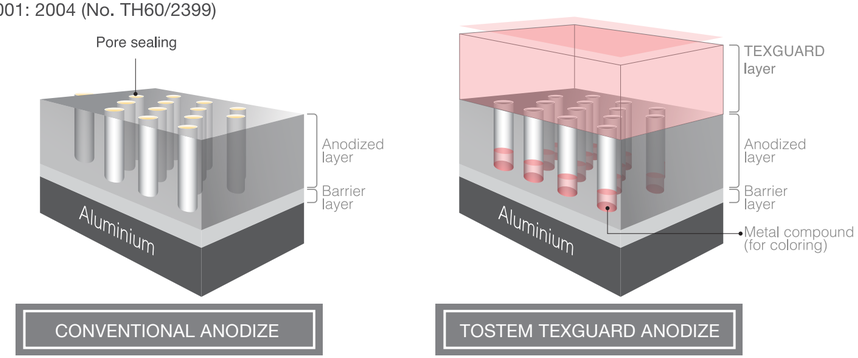
Hasil akhir yang dianodisasi TEXGUARD TOSTEM yang unik memberikan tingkat perlindungan yang tinggi, bersamaan dengan menunjukkan tampilan indah dari aluminium alami. TOSTEM menawarkan berbagai variasi warna, yang keindahannya dapat Anda nikmati dalam jangka waktu yang lama, menambah kebahagiaan ke dalam gaya hidup Anda.

Manfaat TEXGUARD

- Retensi warna - TEXGUARD melindungi aluminium dari kondisi lingkungan yang keras, membuat kilap warna bertahan setidaknya selama 40 tahun.
- Peningkatan kekerasan - Lapisan padat TEXGUARD meningkatkan kekerasan dan memberikan ketahanan gores pada permukaan aluminium.
- Kemudahan pembersihan - Kualitas ketahanan TEXGUARD terhadap akumulasi debu dan kotoran membuat kegiatan membersihkan permukaan menjadi lebih mudah.

Certifications

JIS H4100 (No.TH9009), JIS H8602 (No. TH9010), TIS 218-2520, TIS 284-2530, AAMA 612, ISO 9001: 2015 (No. TH98/4848), ISO 14001: 2004 (No. TH60/2399)



CONVENTIONAL ANODIZE

TOSTEM TEXGUARD ANODIZE

WINDOW AND DOOR COLORS



Natural White



Natural Silver



Ivory White



Shine Grey

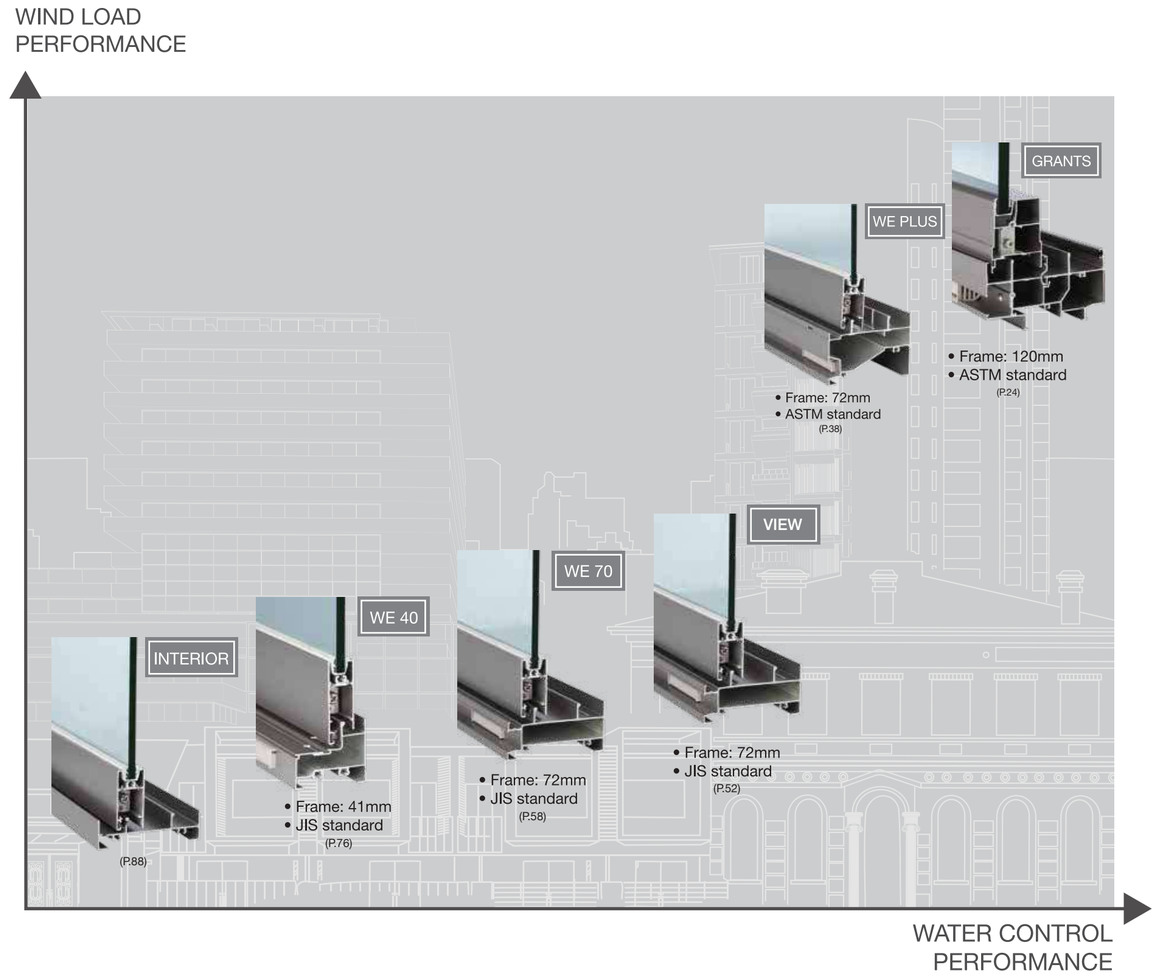


Autumn Brown



Natural Black

TOSTEM WINDOWS SERIES





GRANTS Series (Windows)

	Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SFS	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Mixed Window
Product detail	P. 32	P. 32	P. 32	P. 32	P. 33	P. 33	P. 33	P. 33
Reference Drawing	P. 117	P. 118	-	P. 119	-	P. 119	P. 120	P. 126-127

GRANTS Series (Doors)

	Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 2 tracks) SFS	Sliding Door (3 panels on 3 tracks)	Sliding Door (6 panels on 3 tracks)	Out-Swing Door (Single)	Insect Screen for Awning & Casement
Product detail	P. 34	P. 34	P. 34	P. 34	P. 35	P. 35	P. 36
Reference Drawing	P. 121	P. 122	-	P. 123	P. 124	P. 125	P. 128

WE PLUS Series (Windows)

	Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 3 tracks)	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Mixed Window
Product detail	P. 44	P. 44	P. 44	P. 44	P. 45	P. 45	P. 45	P. 48
Reference Drawing	P. 130	P. 130	-	P. 133	P. 133	P. 131	P. 132	P. 138-139

WE PLUS Series (Doors)

	Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 3 tracks)	Out-Swing Door (Single)	Out-Swing Door (Double)	In-Swing Door (Single)	In-Swing Door (Double)
Product detail	P. 46	P. 46	P. 46	P. 47	P. 47	P. 47	P. 47
Reference Drawing	P. 134	P. 134	P. 135	P. 136	P. 136	P. 137	P. 137

VIEW & VIEW PLUS Series (Windows)

	2 Panels Sliding Window	3 Panels SFS Sliding Window	4 Panels FSSF Sliding Window	Single Casement Window	Double Casement Window	Top Hung Window	Fixed Window	Corner Fixed Window (Custom size as project drawing)	Fixed Louver
Product detail	P. 56	-	P. 56	P. 56-57	-	P. 56-57	-	-	-
Reference Drawing	-	-	-	-	-	-	-	-	-

VIEW & VIEW PLUS Series (Doors)

	2 Panels Sliding Door	3 Panels SFS Sliding Door	3 Panels 3 Tracks Sliding Door	4 Panels Sliding Door	6 Panels 3 Tracks Sliding Door	Single Swing Door (Right or Left)	Double Swing Door (Right or Left)
Product detail	P. 56	-	-	P. 56	-	-	-
Reference Drawing	P. 141	-	P. 141	-	-	P. 141	-

WE 70 Series (Windows)

	Sliding Window (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SFS	Fixed Window	Corner Fixed Window	Awning Window	Casement Window	Double Casement Window
Product detail	P. 68	P. 68	P. 68	P. 68	P. 69	P. 69	P. 69	P. 69
Reference Drawing	P. 142	P. 142	P. 142	P. 147	P. 147	P. 143	P. 144	P. 145-146

	Aluminium louver	Glass Louver	Mixed windows
Product detail	P. 70	P. 70	P. 75
Reference Drawing	P. 148	P. 148	P. 157-158

WE 70 Series (Doors)

	Sliding Door (2 panels on 2 tracks)	Sliding Door (4 panels on 2 tracks)	Sliding Door (3 panels on 2 tracks) SFS	Sliding Door (3 panels on 3 tracks)	Sliding Door (6 panels on 3 tracks)	Ventilation Door	Out-Swing Door (Single)	Out-Swing Door (Double)	In-Swing Door (Single)
Product detail	P. 71	P. 71	P. 71	P. 71	P. 72	P. 72	P. 72	P. 72	P. 73
Reference Drawing	P. 149	P. 149	P. 149	P. 150	P. 150	P. 152	P. 153	P. 153	P. 154

	In-Swing Door (Double)	Folding Door	Entrance Sliding Door (2 panels on 2 tracks)	Entrance Sliding Door (4 panels on 2 tracks)
Product detail	P. 73	P. 73-74	P. 74	P. 74
Reference Drawing	P. 154	P. 155-156	P. 151	P. 151

WE 40 Series (Windows)

	Single Sliding Window	Center Sliding Window	Fixed Window	Awning Window	Casement Window
Product detail	P. 77	P. 77	P. 77	P. 77	P. 77
Reference Drawing	P. 160	P. 160	P. 161	P. 161	P. 161

Interior Series

	On-wall Hanging door (1 panels on 1 track)	On-wall Hanging door (2 panels on 1 track)	In-wall Hanging door (1 panels on 1 tracks)	Hanging door (2 panels on 2 tracks)	Partition Door (2 panels on 2 tracks)	Partition Door (4 panels on 2 tracks)	Partition Door (3 panels on 3 tracks)	Partition Door (6 panels on 3 tracks)
Product detail	P. 90	P. 90	P. 90	P. 90	P. 91	P. 91	P. 91	P. 91
Reference Drawing	P. 162	P. 162	P. 163	P. 164	P. 165	P. 165	P. 166	P. 166



TOSTEM VENTILATION SYSTEM

TOSTEM minimal design ventilation systems let wind and light flow into the living space, enabling us to delight in the atmosphere and the sky, and obtain a sense of complete freshness with style.

Desain ventilasi minimalis dari TOSTEM memberi ruang untuk angin dan cahaya mengalir ke ruang hidup, membuat kita menikmati suasana dan langit, serta merasakan kesegaran dengan indah.

1

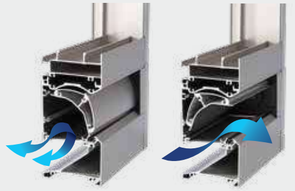
Mullion integrated system
- ASTM: 10.7m³ (when closed)
- Available in GRANTS series



*Exclusive for projects

2

Transom integrated system
- Air tightness JIS: A-3 (when closed)
- Available in WE PLUS, and WE 70 series



*Available in January 2021

3

Door integrated system
- Air tightness JIS: A-3 (when closed)
- Available in WE 70 series





GRANTS
SERIES

GRANTS is TOSTEM's flagship series. It's innovative design results in a larger surface area of glass for panoramic views. This takes the standard of aluminium windows and doors to another level.

GRANTS adalah seri unggulan TOSTEM. Desain inovatifnya menghasilkan area permukaan kaca yang lebih besar untuk pemandangan panorama, yang membawa standar produk jendela dan pintu aluminium ke tingkat yang lebih tinggi.

SPECIFICATIONS

Frame depth Ketebalan kusen	101.6 mm 120 mm (2 tracks sliding) 178 mm (3 tracks sliding)
Height of sill Ketinggian ambang bawah	50 mm
Glass thickness Ketebalan kaca	Up to 31.5 mm

COLORS

Natural White

Natural Silver

Shine Grey

Autumn Brown

Natural Black



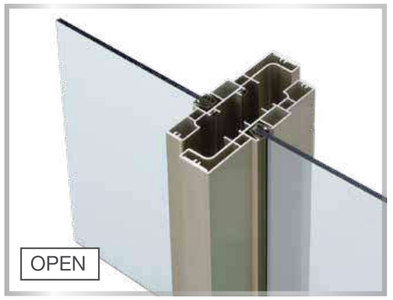
PERFORMANCES

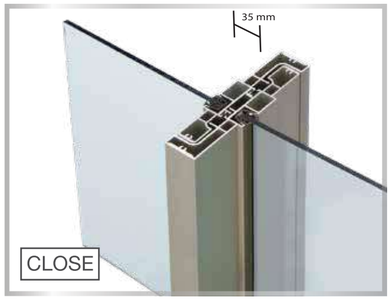
Wind pressure	Water tightness	Air tightness	Noise insulation
ASTM E330: 2000 Pa	ASTM E300: 300 Pa	ASTM E283: 10.7m³ / h·m²	JIS: 25 dB

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

* Uji kekedapan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kekedapan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kekedapan suara.

UNIQUE FEATURES





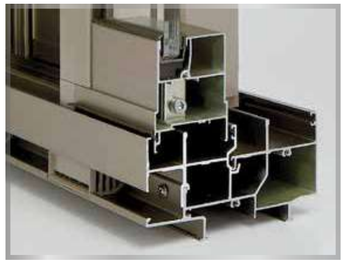
Overlapping meeting stile (4 panels sliding)

Kusen pertemuan tumpang tindih (jendela dan pintu geser 4 daun)



Conceal panel design

Desain panel tersembunyi



Double barrier drainage system

Sistem drainase dengan penghalang ganda



"L-Fit" design hardware

Perangkat keras dengan desain "L-Fit"



GRANTS
VENTILATIONS
*Exclusive for projects

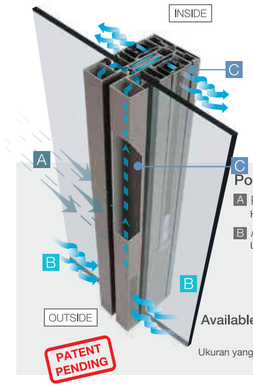


GRANTS ventilation system is a perfect solution for high-rise projects. The ventilation system is fully embedded into the mullion so as to give clear and uninterrupted panoramic views, assures healthy living.

Sistem ventilasi GRANTS adalah solusi sempurna untuk bangunan bertingkat tinggi. Sistem ventilasi tertanam sepenuhnya ke dalam ambang tengah jendela sehingga memberikan pandangan yang jelas dan tanpa gangguan, menjamin kehidupan yang sehat.

UNIQUE FEATURES

GRANTS Ventilation System
Sistem Ventilasi GRANTS



Easy maintenance
Perawatan mudah



Easy to operate
Mudah dioperasikan



Position of air-intake holes

A Rain from front side cannot go in
Hujan dari sisi depan tidak dapat masuk

B Air enters from side of mullion
Udara masuk dari sisi ambang tengah

Position of ventilation slot

C Ventilation slots are located higher than air-intake holes, which allows incoming water to drain down while air can flow in

Slot ventilasi terletak lebih tinggi dari lubang masuknya udara, yang memungkinkan air yang masuk mengalir ke bawah sementara udara dapat mengalir masuk

Available size : Mullion with ventilation slot can be up to 3 m high
: Ventilation slot can be selected from 460 mm and 860 mm

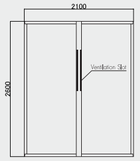
Ukuran yang tersedia : Ambang tengah dengan slot ventilasi dapat mencapai ketinggian 3 m
: Slot ventilasi dapat dipilih dari 460 mm dan 860 mm

PATENT PENDING

SPECIFICATION

ASTM performance	Slot Open	Slot Close
Air tightness Kekedapan udara	N/A	10.7m³/h·m²
Water tightness Kekedapan air	240Pa	300Pa
Wind pressure resistance Ketahanan tekanan angin	2000Pa	2000Pa

Test result



Test Specimen
- Size : H2600 mm, W2100 mm
- Fixed + Fix combination
- Ventilation slots (860 mm) on both side of mullion

Pressure (Pa)	Wind speed (m/s)	Air flow (m³/h)
5	2.08	14.5
10	3.30	23.0
20	5.23	36.4
50	8.70	60.6
75	10.80	75.2
100	12.52	87.1
150	15.35	106.8

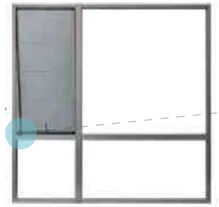
GRANTS
SCREEN SYSTEM

FOR AWNING & CASEMENT WINDOWS

- Fully embedded in the frame
  Tertanam sempurna di dalam bingkai
- Easy to remove for maintenance
  Mudah dilepas untuk perawatan



OPEN



CLOSE



FOR SLIDING AND SWING DOORS



OPEN



CLOSE



- Same color sub-frame
  Sub-bingkai dengan warna yang sama
- Flat sill design for safety
  Desain ambang datar untuk keamanan



- Easy to remove
  Mudah untuk dilepaskan



GRANTS PROJECT REFERENCE



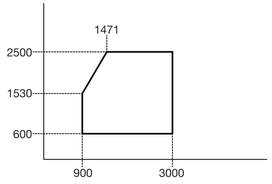
GRANTS PROJECT REFERENCE

WINDOWS

Sliding Window (2 panels on 2 tracks)



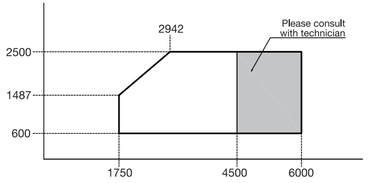
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Sliding Window (4 panels on 2 tracks)



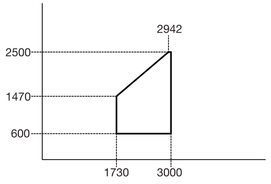
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Sliding Window (3 panels on 2 tracks) SFS



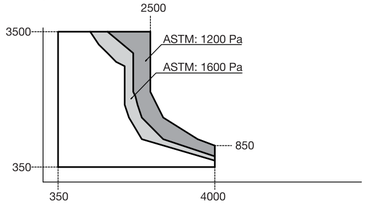
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Fixed Window



- For oversize fixed windows, please consult with our technician
- Available in SG and IG unit
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing bead
  - 18 - 24 mm : Sealant
  - 25 - 31.52 mm : Glazing bead

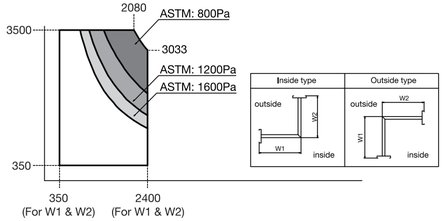


WINDOWS

Corner Fixed Window



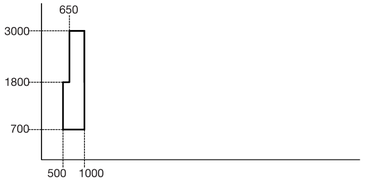
- Only available in SG
- Only available with sealant finish
- Both in/outward corner available



Awning Window



- Available in SG and IG unit
- In case of IG, please consult with our technician for size and performance
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 28 - 31.52 mm : Glazing channel



Casement Window (with friction stay)



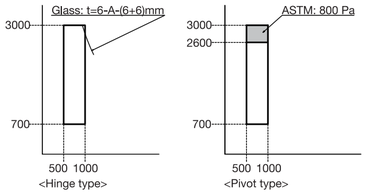
- Available in SG and IG unit
- In case of glass thickness over 8 mm and IG unit please consult with our technician
- Select from L/R
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 28 - 31.52 mm : Glazing channel



Casement Window (with hinge or pivot)



- Available in SG and IG unit
- Select from L/R
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 28 - 31.52 mm : Glazing channel

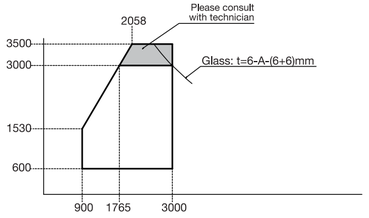


DOORS

Sliding Door (2 panels on 2 tracks)



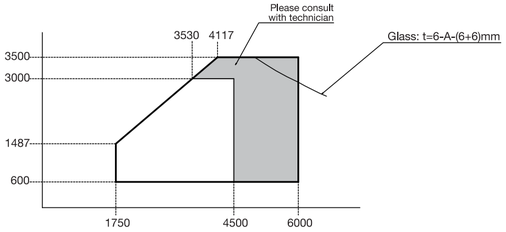
- Available in SG and IG unit
- Select panel position from L/R
- Single slide (L/R) available
- Handle option
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Sliding Door (4 panels on 2 tracks)



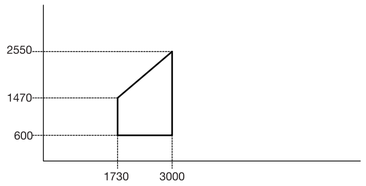
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSS, FSSF)
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 2 tracks) SFS



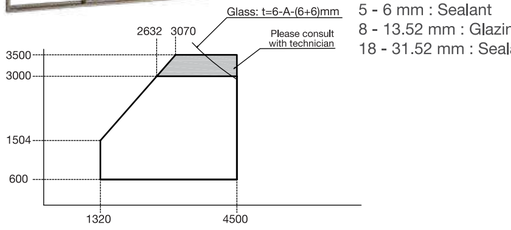
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Sliding Door (3 panels on 3 tracks)



- Available in SG and IG unit
- Select panel position from L/R
- Handle option
- Pleated insect screen available
- Select from (SSS, FSS, SSF)
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant

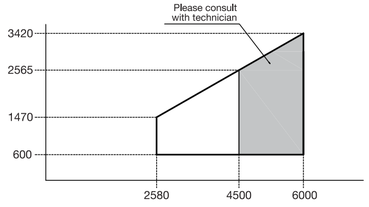


DOORS

Sliding Door (6 panels on 3 tracks)



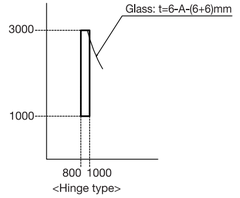
- Available in SG and IG unit
- Handle option
- Pleated insect screen available
- Select from (SSSSSS, FSSSSF)
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 31.52 mm : Sealant



Out-Swing Door (Single)



- Available in SG and IG unit
- Pivot hinge option
- Door closer NOT available
- Select from L/R
- Pleated insect screen available
- Glazing Finish
  - 5 - 6 mm : Sealant
  - 8 - 13.52 mm : Glazing channel
  - 18 - 27 mm : Sealant
  - 28 - 31.52 mm : Glazing channel



MIXED & COMBINATION WINDOW

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

UNIT WINDOWS

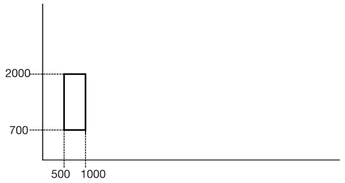
Bottom Windows	Top Windows			
	Single Awning	Single Casement	Single Fix	Sliding
Single Awning			●	
Single Casement			●	
Swing Door			●	
Single Fix	●	●	●	●
Double Fix				●

OPTIONS

Insect screen for awning & casement



- For awning and casement window over 2000 mm in height, use insect sliding screen







WE PLUS
SERIES

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.

WE Plus telah lulus berbagai pengujian ketat berdasarkan ASTM, dan standar terberat TOSTEM.

Tersedia dalam berbagai desain dengan tinggi maksimal 3 meter untuk memenuhi berbagai kebutuhan desainer untuk bangunan bertingkat tinggi



* With precast attachment (option)

SPECIFICATIONS

Frame depth Ketebalan kusen	72 mm 104 mm (3 tracks sliding)
Height of sill Ketinggian ambang bawah	35 mm 50 mm (all slidings)
Glass thickness Ketebalan kaca	5, 6, 8 mm

COLORS

Natural White | Natural Silver | Ivory White

Shine Grey | Autumn Brown | Natural Black

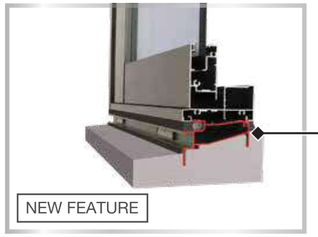
PERFORMANCES

Wind pressure	Water tightness	Air tightness	Noise insulation
ASTM E330: 1600 Pa	ASTM E300: 240 Pa	ASTM E283: 10.7m³ / h·m²	JIS (A4706 & A4702): 25 dB

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

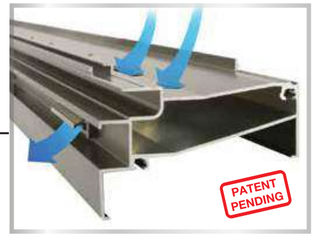
*ound performance test has been done in JIS standard controlled environment. Performance will vary by room condition. Please consult with sound insulation specialist.

UNIQUE FEATURES



Preinstalled still attachment for pre-cast concrete (option)

Profil penutup yang sudah terpasang untuk beton pracetak (opsional)



Attachment allows stability around windows for a longer time against the aged deterioration of a sealant. In case of water entry from outside sealant, attachment prevents water from penetrating inside

Profil penutup yang memungkinkan stabilitas di sekitar jendela terhadap kerusakan sealant untuk waktu yang lebih lama. Jika air masuk dari sealant luar, profil penutup mencegah air masuk ke dalam



Sliding door meeting stiles are designed to withstand high wind loads

Kusen pertemuan pada pintu geser dirancang untuk menahan beban angin yang tinggi



High quality security lock

Kunci keamanan berkualitas tinggi



Easily adjustable outer-panel lock

Kunci panel luar yang mudah disesuaikan



Limit arm (window restrictor)

Pembatas jendela

WE PLUS
PROJECT REFERENCE



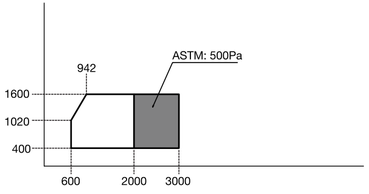
WE PLUS
PROJECT REFERENCE

WINDOWS

Sliding Window (2 panels on 2 tracks)



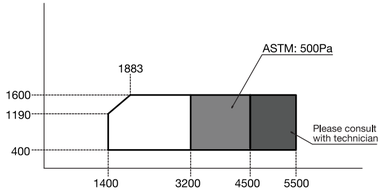
- Inside insect screen available with a special order



Sliding Window (4 panels on 2 tracks)



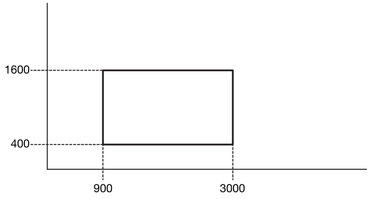
- Inside insect screen available with a special order



Sliding Window (3 panels on 3 tracks)



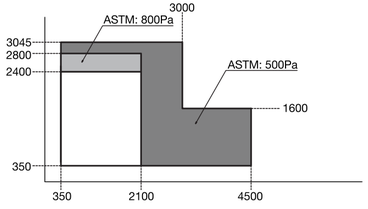
- Inside insect screen available with a special order



Fixed Window

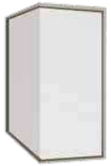


- Wind load performance varies by glass thickness, please consult with our technician

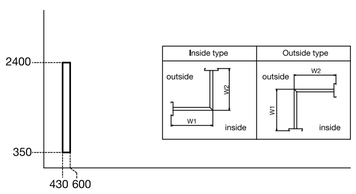


WINDOWS

Corner Fixed Window



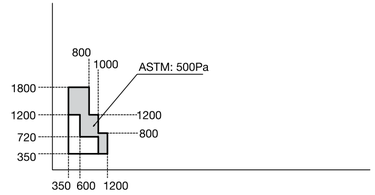
- Available only in outward corner
- Middle bar (optional)



Awning Window (Single Lock)



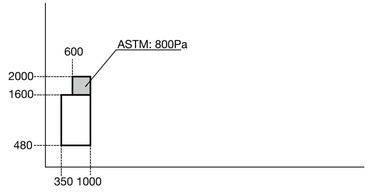
- Insect screen available with a special order



Awning Window (Multi Lock)



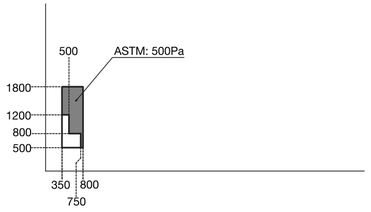
- Insect screen NOT available



Casement Window (Single Lock)



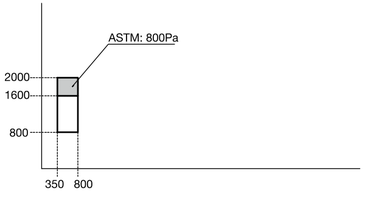
- Insect screen available with a special order
- Select from L/R
- Safety arm (Optional)



Casement Window (Multi Lock)



- Insect screen NOT available
- Select from L/R
- Safety arm (Optional)

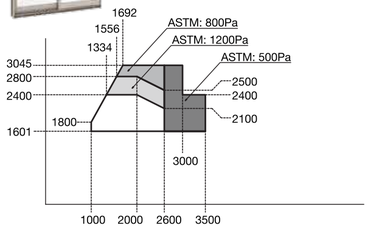


DOORS

Sliding Door (2 panels on 2 tracks)



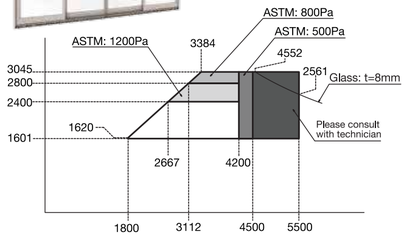
- Sill options (standard & floor finish)
- Inside insect screen available with a special order



Sliding Door (4 panels on 2 tracks)



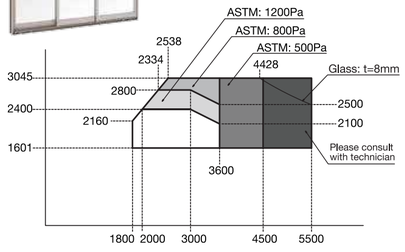
- Sill options (standard & floor finish)
- Inside insect screen available with a special order



Sliding Door (3 panels on 3 tracks)



- Sill options (standard & floor finish)
- Inside insect screen available with a special order

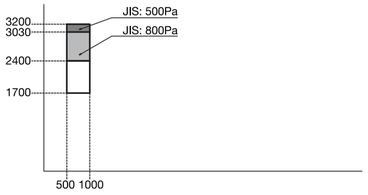


DOORS

Out-Swing Door (Single)



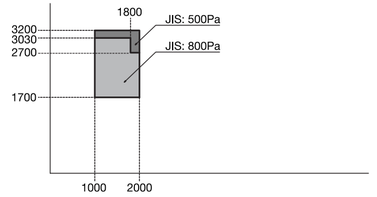
- Select from L/R
- Sill option (with/without sill)
- Door closer (optional)
  *in case of non-sill, no air and water performance determined



Out-Swing Door (Double)



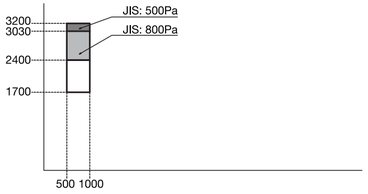
- Select from L/R
- Sill option (with/without sill)
- Door closer (optional)
  *in case of non-sill, no air and water performance determined



In-Swing Door (Single)



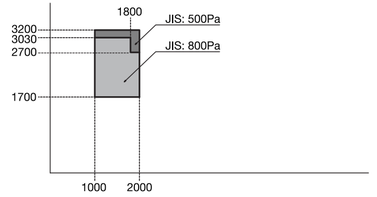
- Select from L/R
- Door closer (optional)
- Only available with Non-sill
- No water & air-tightness performance determined



In-Swing Door (Double)



- Select from L/R
- Door closer (optional)
- Only available with Non-sill
- No water & air-tightness performance determined



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)

UNIT WINDOWS

	Top Windows		
Bottom Windows	Single Awning	Single Casement	1 Panel Fix
Single Awning			●
Single Casement			●
1 Panel Fix	●	●	●







VIEW & VIEW PLUS
SERIES

VIEW Plus helps saving energy, saving electricity bill, and noise insulation by applying double-glass solution, maximum glass thickness of 28mm. VIEW series provide nice visibility as its name together with JIS (Japanese Industrial Standard) quality level.

VIEW & VIEW Plus offers the product height up to 3 meters with rich line ups. You will feel secure, comfort and have a peace of mind, enjoying the scenery through

VIEW Plus membantu dalam menghemat energi, menghemat biaya listrik, dan menginsulasi suara melalui penerapan solusi kaca ganda, dengan ketebalan kaca maksimal 28mm. VIEW memberikan visibilitas yang baik dengan kualitas JIS.

VIEW & VIEW Plus menawarkan produk dalam berbagai varian dengan tinggi hingga 3 meter. Anda akan merasa aman, nyaman dan tenang menikmati pemandangan

SPECIFICATIONS

Frame depth Ketebalan kusen	72 mm 104 mm (3 tracks)
Height of sill Ketinggian ambang bawah	3030 mm
Glass thickness Ketebalan kaca	
VIEW	5, 6, 8 mm
VIEW-Plus	28 mm (8+A12+8)

COLORS


Natural White


Natural Silver


Ivory White


Shine Grey


Autumn Brown


Natural Black



PERFORMANCES

Wind pressure
VIEW
JIS: 850 Pa
VIEW-Plus
JIS: S-3 (1600 Pa)

Water tightness
JIS: W-3 (180 Pa)

Air tightness
JIS: A-3 (8m^3/ h·m^2)

Noise insulation
JIS: T-1 (25dB)

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

*Uji kekedapan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kekedapan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kekedapan suara.

UNIQUE FEATURES


Easily adjustable outer-panel lock
Kunci panel luar yang mudah disesuaikan


Airtight piece
Perangkat kedap udara


Stopper
Perangkat penahan


Drain valve
Katup drainase


Bottom guide
Perangkat penahan bagian bawah

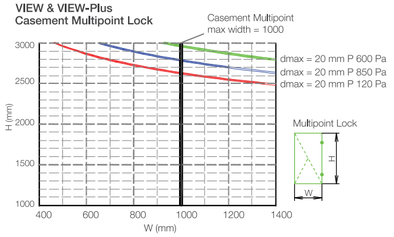

Safety lock
Kunci pengaman

VIEW SERIES
PROJECT REFERENCE

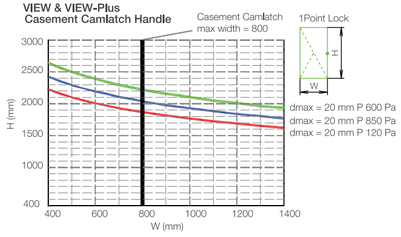


VIEW & VIEW Plus
Limitation against wind pressure

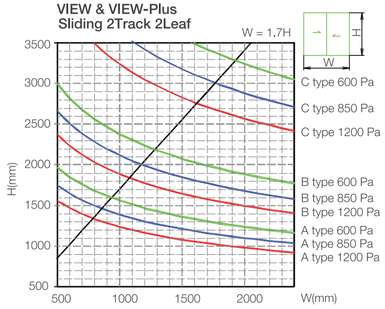
VIEW & VIEW-Plus Casement Multipoint Lock



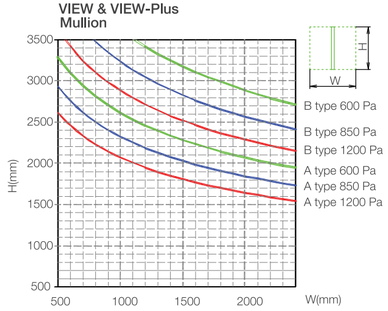
VIEW & VIEW-Plus Casement Camlatch Handle



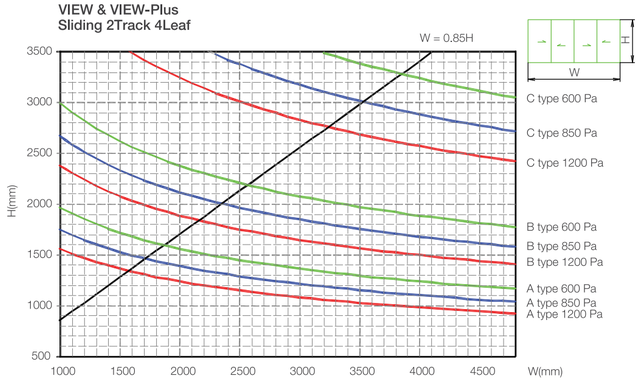
VIEW & VIEW-Plus Sliding 2Track 2Leaf



VIEW & VIEW-Plus Mullion



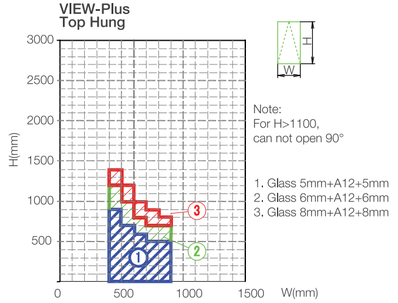
VIEW & VIEW-Plus Sliding 2Track 4Leaf



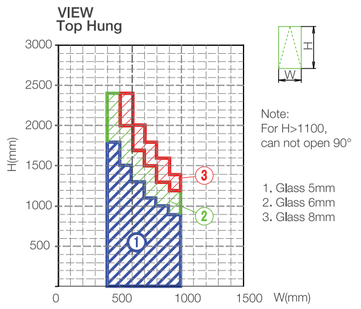
*To see the limitation, please check and combine both graph for wind load and glass

VIEW & VIEW Plus
Limitation against glass weight

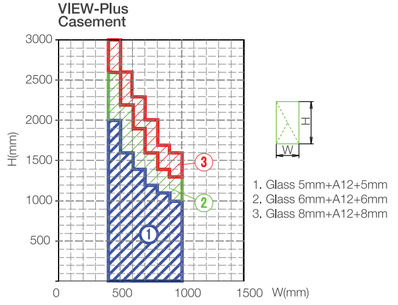
VIEW-Plus Top Hung



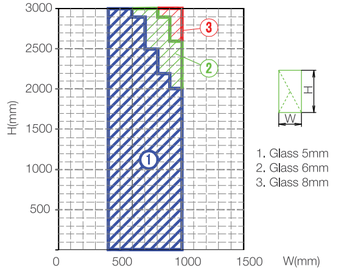
VIEW Top Hung



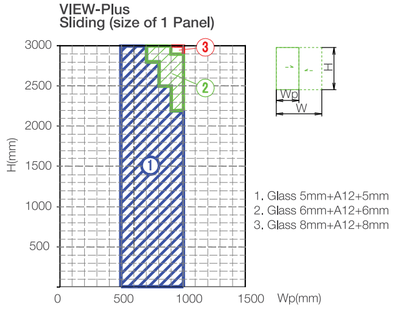
VIEW-Plus Casement



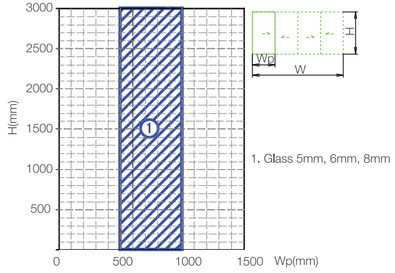
VIEW Casement



VIEW-Plus Sliding (size of 1 Panel)



VIEW Sliding (Size of 1 panel)



*To see the limitation, please check and combine both graph for wind load and glass

WE 70
SERIES

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.

WE 70 menghadirkan kualitas TOSTEM yang legendaris dalam kehidupan sehari-hari. Dibangun untuk pasar umum, namun tetap mempertahankan standar kualitas yang ketat. WE 70 menawarkan harga yang terjangkau.



SPECIFICATIONS

Frame depth Ketebalan kusen	72 mm 104 mm (3 tracks sliding)
Height of sill Ketinggian ambang bawah	35 mm
Glass thickness Ketebalan Kaca	5, 6, 8 mm

COLORS



Natural White | Natural Silver | Ivory White

Shine Grey | Autumn Brown | Natural Black

PERFORMANCES

Wind pressure	Water tightness	Air tightness	Noise insulation
JIS: S-1 (800 Pa)	JIS: W-2 (150 Pa)	JIS: A-3	JIS: 25 dB

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

* Uji kekedapan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kekedapan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kekedapan suara.

UNIQUE FEATURES



Watertight sill with drainage devices prevents rain water
Ambang bawah kedap air dengan perangkat drainase mencegah air hujan



Easy-grip handle
Pegangan yang mudah digenggam



Easily adjustable outer-panel lock
Kunci panel luar yang mudah disesuaikan



High quality security lock
Kunci keamanan berkualitas tinggi



Combination with fixed window without additional transom.
Kombinasi dengan jendela kaca mati tanpa transom tambahan.



Internal sliding insect screen
Kasa serangga geser internal

VENTILATION SYSTEMS
SISTEM VENTILASI



CLOSED
Tertutup



A FULLY OPENED
Terbuka penuh



B LEAST OPENED
Terbuka sebagian



SECURITY GRILLS AND INSECT SCREEN

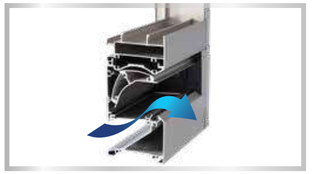


Please scan for
product demonstration





Inside view
Tampak dalam saat terbuka



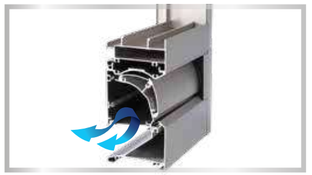
Smooth operation with bearing rollers
Pengoperasian mulus dengan bantalan roda



Detachable insect screen for cleaning
Kasa serangga yang dapat dilepas untuk dibersihkan



Inside view
Tampak dalam saat tertutup



Air tightness: JIS A-3 when closed
Kekedapan udara: JIS A-3 saat tertutup

PATENT PENDING

*Available in January 2021
*Tersedia pada Januari 2021

FOLDING DOOR
PINTU LIPAT

Smart design profiles and high quality accessories create an elegant and stylish look while being easy to use. Suitable for both luxury residential and commercial projects.

Profil berdesain cerdas dan aksesoris berkualitas tinggi menciptakan tampilan yang elegan dan penuh gaya dengan kemudahan penggunaan. Cocok untuk perumahan mewah dan proyek komersial.



UNIQUE FEATURES



Watertight sill with drainage system

Ambang bawah kedap air dengan sistem drainase



Flat sill is available and allows barrier-free passage

Tersedia ambang bawah yang memungkinkan jalur tanpa hambatan



Smart designs prevent finger injuries

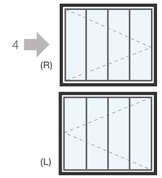
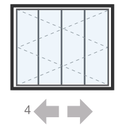
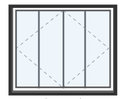
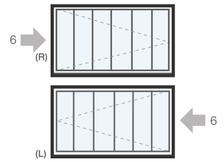
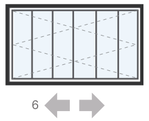
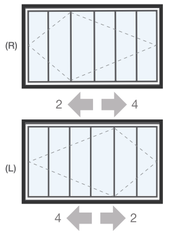
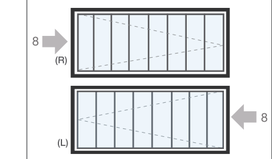
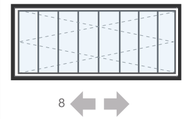
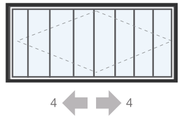
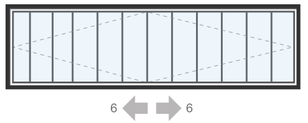
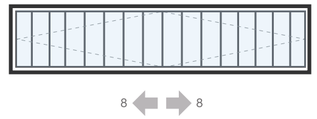
Desain cerdas yang mencegah cedera pada jari



Hinge-less Design

Desain tanpa engsel

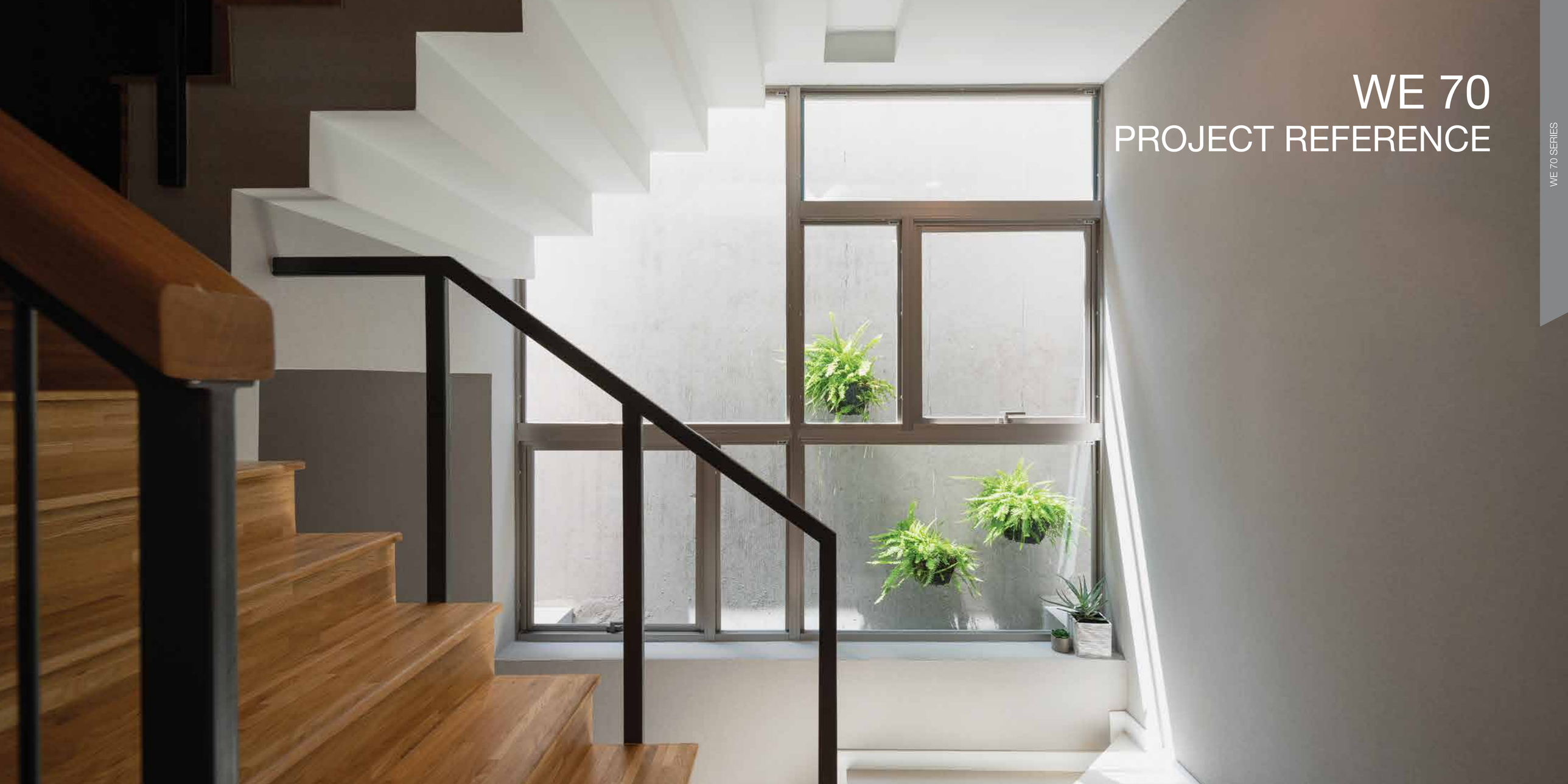
PRODUCT VARIETY Inside View

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

• See page 71 for size availibility

• See page 159 - 163 for reference drawing

WE 70
PROJECT REFERENCE



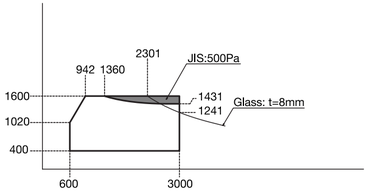
WE 70
PROJECT REFERENCE

WINDOWS

Sliding Window (2 panels on 2 tracks)



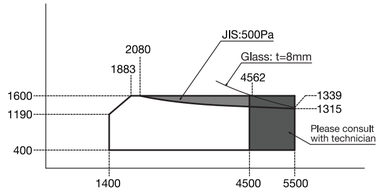
- Internal insect screen available.
- External insect screen available with a special order.
- Single sliding available (L/G)



Sliding Window (4 panels on 2 tracks)



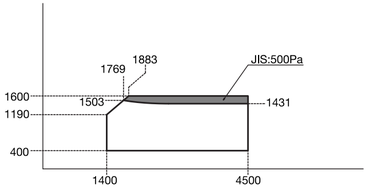
- Internal insect screen available.
- External insect screen available with a special order.



Sliding Window (3 panels on 2 tracks)



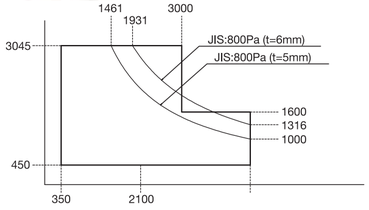
- Internal insect screen available.
- External insect screen available with a special order.



Fixed Window



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

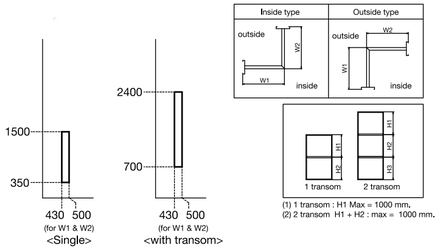


WINDOWS

Corner Fixed Window



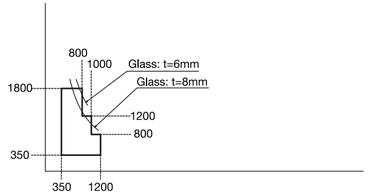
- Both In/outward corner available
- Middle bar (optional)



Awning Window



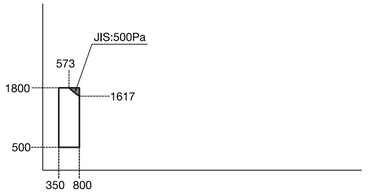
- Insect Screen available



Casement Window



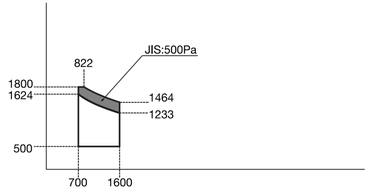
- L/R available
- Insect screen available



Double Casement Window



- Insect Screen available

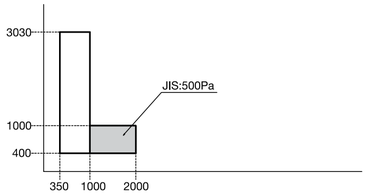


WINDOWS

Aluminium Louver



- No performance determined



Glass Louver



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

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

Height (H)			Width (W)		
Size	Blades	Handles	Single	Double	Triple
0312	3	1	Min 400 Max 800	Min 801 Max 1600	Min 1601 Max 2400
0401	4				
0490	5				
0579	6				
0668	7				
0757	8				
0846	9	2			
0935	10				
1024	11				
1113	12				
1202	13				
1291	14				
1380	15				
1469	16				
1558	17	3			
1674	18				
1736	19				
1825	20				
1914	21				
2003	22				

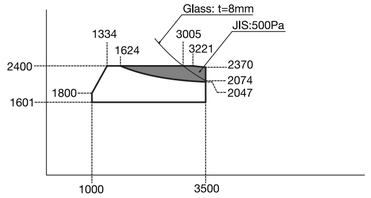


DOORS

Sliding Door (2 panels on 2 tracks)



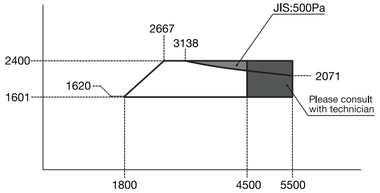
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- Insect screen available (internal)



Sliding Door (4 panels on 2 tracks)



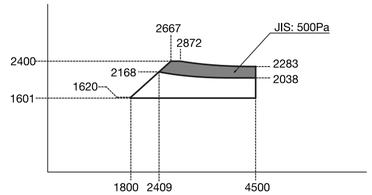
- Sill options (standard & floor finish)
- Insect screen available (internal)



Sliding Door (3 panels on 2 tracks) SFS



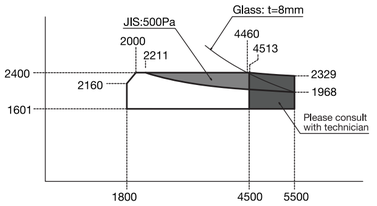
- Sill options (standard & floor finish)
- Insect screen available (internal)



Sliding Door (3 panels on 3 tracks)



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

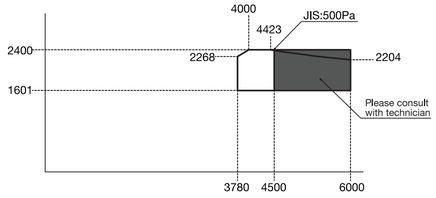


DOORS

Sliding Door (6 panels on 3 tracks)



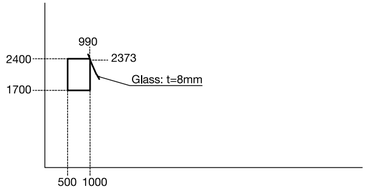
- Sill options (standard & floor finish)
- Insect screen available (internal)



Ventilation Door



- Select from L/R
- Door closer (optional)
- Lattice with screen available

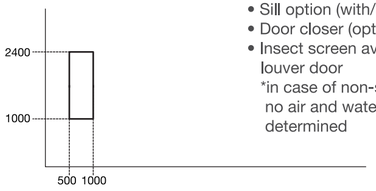


Out-Swing Door (Single)





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

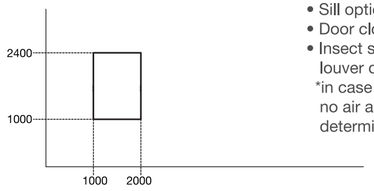


Out-Swing Door (Double)





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

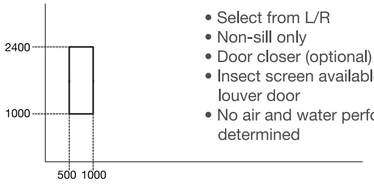


DOORS

In-Swing Door (Single)





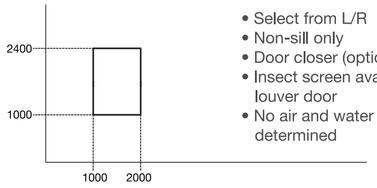


- Select from L/R
- Non-sill only
- Door closer (optional)
- Insect screen available with louver door
- No air and water performance determined

In-Swing Door (Double)







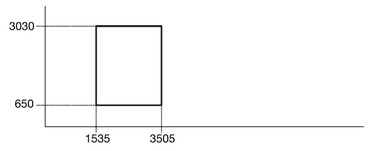
- Select from L/R
- Non-sill only
- Door closer (optional)
- Insect screen available with louver door
- No air and water performance determined

Folding Door (4 panels)



- Sill option (standard & flat)
- 1 panel weight cannot exceed 40 kg.
- 1 panel width limit 350 - 850 mm.
- Choose from
  - One way open (select L/R)
  - Both ways open
  - Center open

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

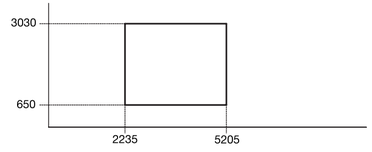


Folding Door (6 panels)



- Sill option (standard & flat)
- 1 panel weight cannot exceed 40 kg.
- 1 panel width limit 350 - 850 mm.
- Choose from
  - One way open (select L/R)
  - Both ways open
  - Center open

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

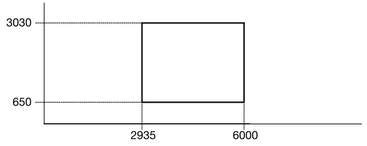


DOORS

Folding Door (8 panels)

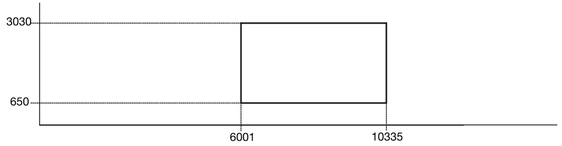


- Sill option (standard & flat)
- 1 panel weight cannot exceed 40 kg.
- 1 panel width limit 350 - 850 mm.
- Choose from
  - One way open (select L/R)
  - Both ways open
  - Center open
- Water performance is JIS: 120 pa
  *in case of flat-sill, no air and water performance determined

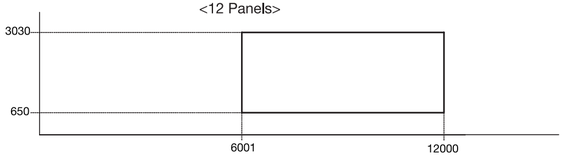


Folding Door (12,16 panels)

- Sill option (standard & flat)
- 1 panel weight cannot exceed 40 kg.
- 1 panel width limit 350 - 850 mm.
- Center open only
- No air and water performance determined



<12 Panels>

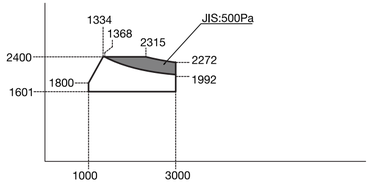


<16 Panels>

Entrance Sliding Door (2 panels on 2 tracks)



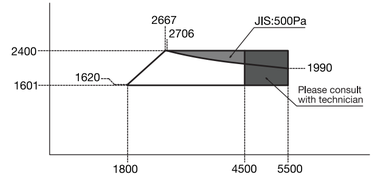
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- External Insect screen available



Entrance Sliding Door (4 panels on 2 tracks)



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



MIXED & COMBINATION WINDOW

- Mullions and transoms are available for each windows and doors. 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 (2 panels on 2 tracks)	Sliding Window (4 panels on 2 tracks)	Sliding Window (3 panels on 2 tracks) SFS	Single Awning	Single Casement	Double Casement	1 Panel Fix	2 Panels Fix	3 Panels Fix	4 Panels Fix	Outward Corner Fix	Inward Corner Fix
Sliding Window (2 panels on 2 Tracks)							●	●				
Sliding Window (4 panels on 2 Tracks)								●	●	●		
Sliding Window (3 panels on 2 Tracks) SFS								●	●	●		
Single Awning							●					
Single Casement							●					
Double Casement							●	●				
1 Panel Fix	●			●	●	●	●					
2 Panels Fix	●	●	●			●		●	●	●		
3 Panels Fix		●	●				●	●	●	●		
4 Panels Fix		●	●				●	●	●	●		
Outward-Corner Fix											●	
Inward-Corner Fix												●

UNIT DOORS

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

WE 40
SERIES

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

WE 40 menghadirkan kualitas TOSTEM yang legendaris dalam kehidupan sehari-hari. Dibangun untuk pasar umum, namun tetap mempertahankan standar kualitas yang ketat.



SPECIFICATIONS

Frame depth Ketebalan kusen	41 mm
Height of sill Ketinggian ambang bawah	35 mm
Glass thickness Ketebalan kaca	5, 6 mm

COLORS



Natural White | Natural Silver | Ivory White



Shine Grey | Autumn Brown | Natural Black

PERFORMANCES

Wind pressure	Water tightness	Air tightness	Noise insulation
JIS: 500 Pa	JIS: W-1 (100 Pa)	JIS: A-3	Not rated

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

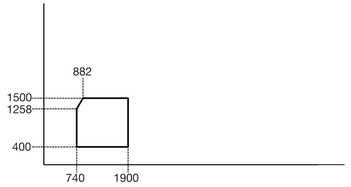
*Uji kekedapan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kekedapan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kekedapan suara.

WINDOWS

Single Sliding Window



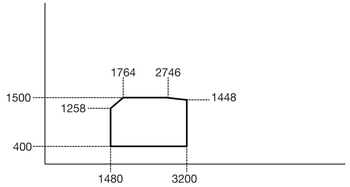
- Select from L/R
- External fixed insect screen available



Center Sliding Window



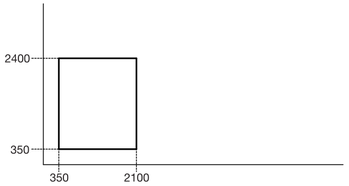
- External fixed insect screen available



Fixed Window



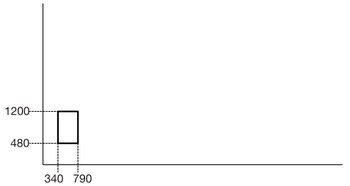
- Wind load performance varies by glass thickness. Please consult with our technician.



Awning Window



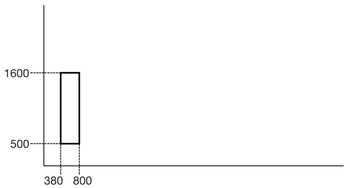
- Insect screen NOT available



Casement Window



- Insect screen NOT available



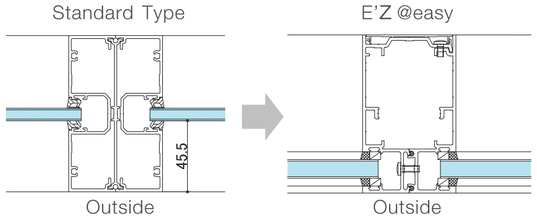


E'Z
Series

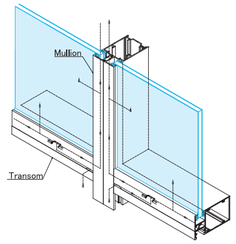
Combining performance and beauty, E'Z gives you a sleek design of curtain wall with drainage system. E'Z assures both reliable quality and excellent value for businesses with uncompromising functionality. Suitable for shop-fronts and commercial buildings.

Menggabungkan performa dan keindahan, E'Z memberi Anda desain curtain wall yang ramping dengan sistem drainase. E'Z memastikan kualitas andal dan nilai yang sangat baik untuk bisnis dengan fungsi tanpa kompromi. Cocok untuk bagian depan toko dan bangunan komersial.

Flat design with glass set at front

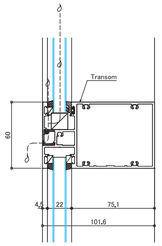


Drain system



Grafh

Variation Ez 100, 200 (160)





COLORS





PERFORMANCES



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

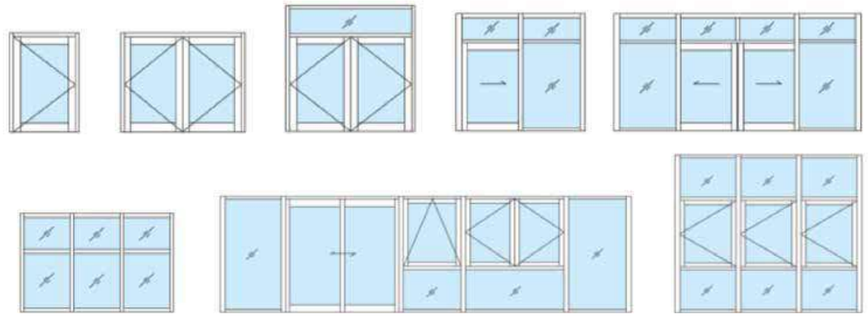
Uji kekedapan suara telah dilakukan dalam lingkungan terkontrol dengan standar JIS. Tingkat kekedapan akan bervariasi sesuai dengan kondisi ruang. Silakan berkonsultasi dengan spesialis kekedapan suara.

PRODUCT LINE UP

Type	Line Up	Future
Store front	100 FIX	Glass groove 22 mm Glass thickness 12 mm Mullion Face 60 mm
Curtain wall	100 FIX 200 FIX	
Entrance door	Top hinge Floor hinge Auto door	Glass groove 16 mm Glass thickness 8 mm Frame size - Top and bottom 40x100 mm - Length 40x80 mm

Combination of openable windows and doors from WE Plus, WE, VIEW & VIEW Plus Series

Kombinasi dari pintu dan jendela yang dapat dibuka WE Plus, WE, VIEW & VIEW Plus Series





MATSU
Series

MATSU is simple shop-front façade designed with original parts from TOSTEM, fabricated and assembled in our factory. MATSU's tough profile can connect with windows and doors in VIEW series, coming with competitive price and uncompromising quality.

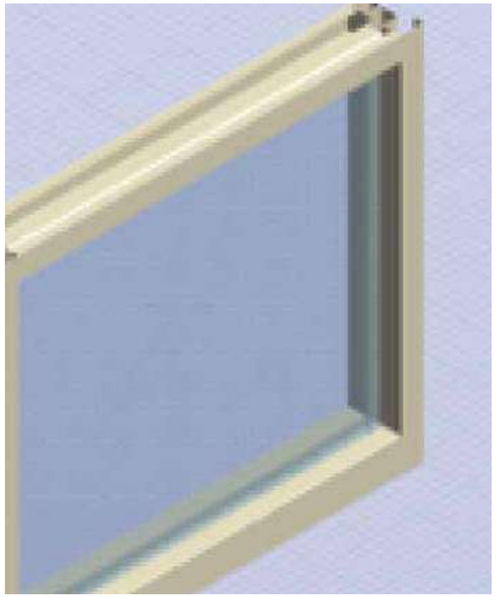
MATSU adalah fasad depan toko sederhana yang dirancang dengan suku cadang asli dari TOSTEM, dibuat dan dirakit di pabrik kami. Profil tangguh MATSU dapat terhubung dengan jendela dan pintu dalam seri VIEW, hadir dengan harga yang kompetitif dan kualitas tanpa kompromi.

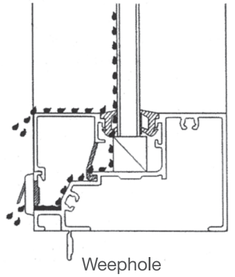
COLORS



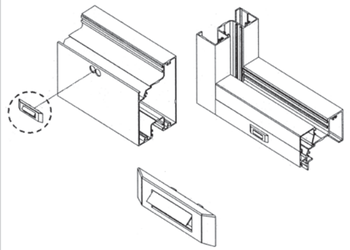
Natural White | Natural Silver | Ivory White

Shine Grey | Autumn Brown | Natural Black

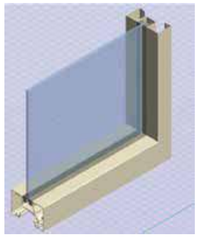




Weephole



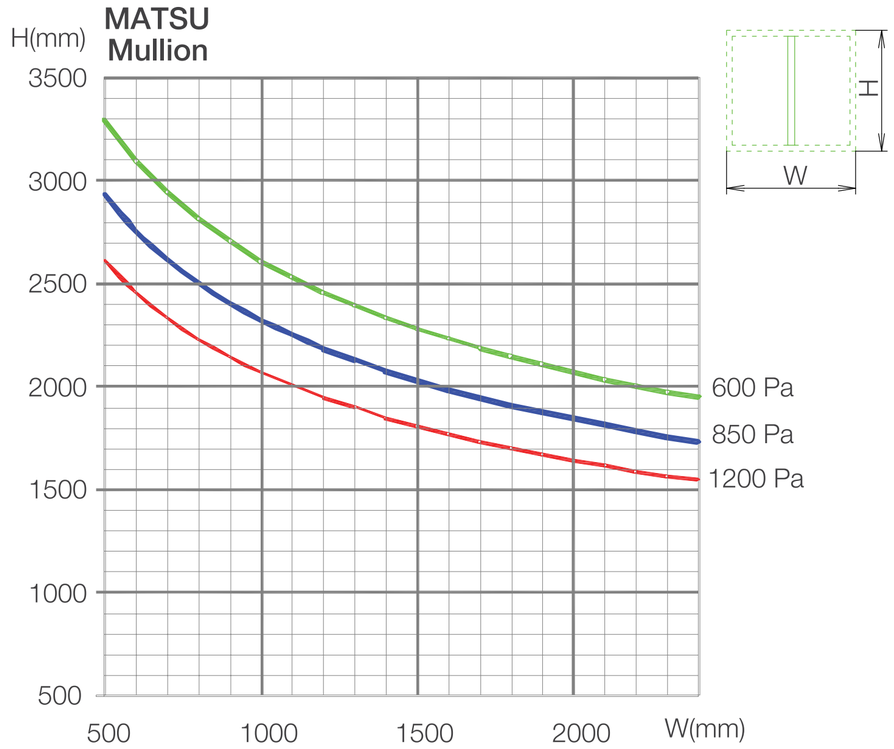
Water Drain CAP





- For mass segment residential and commercial.
- Process and assembly at Indonesian Factory.
- Available for both single and laminated glass, thickness up to 12 mm (Glass groove 18 mm)

Limitation Against Wind Pressure





DOORS FOR INTERIOR PROJECTS

INTERIOR
SERIES

INTERIOR SERIES, a luxurious and durable choice to divide interior living spaces. Available are the hanging type without floor track, sliding type with floor track, and swing type. Slim design aluminium profiles give a modern accent to your space.

INTERIOR SERIES, pilihan mewah dan tahan lama untuk membagi ruang interior anda. Yang tersedia dalam tipe gantung tanpa floor track, tipe sliding dengan floor track, dan tipe swing. Profil aluminium dengan desain ramping memberikan aksen modern pada ruang Anda

SPECIFICATIONS

	Hanging door	Sliding door
Frame depth Ketebalan kusen	(1 track) Top 47.2 mm Jamb 49.1 mm (2 tracks) Top 88.5 mm Jamb 90.4 mm	(2 tracks) 72 mm (3 tracks) 104 mm
Height of sill Ketinggian ambang bawah	No sill Tanpa kusen	20 mm
Glass thickness Ketebalan Kaca	5, 6, 8 mm	5, 6, 8 mm

COLORS



Natural White | Natural Silver | Ivory White

Shine Grey | Autumn Brown | Natural Black



FEATURES



Effortless movement



Safety

UNIQUE FEATURES (HANGING DOOR)



Durable rollers for smooth operation
Roda tahan lama untuk kelancaran penggunaan



Soft close for extra safety (option)
Sistem penutupan perlahan untuk keamanan ekstra (opsional)



Pull (Standard) Handle & Lock-set (option)



Sill-less design provides safety and comfort for all
Desain tanpa ambang bawah memberikan keamanan dan kenyamanan



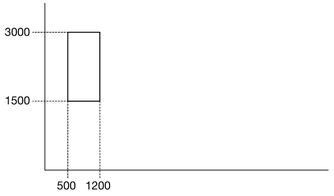
Panel guide piece to prevent panel from shaking when sliding
Perangkat untuk mencegah panel bergetar saat digeser

DOORS

On-wall Hanging door (1 panel on 1 track)



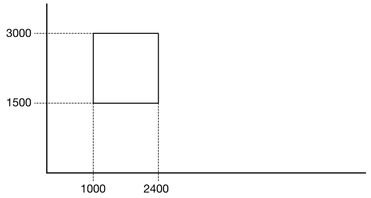
- Select from L/R
- Lock (optional)
- Soft close (optional)
- Select from with or without ending jamb



On-wall Hanging door (2 panels on 1 track)



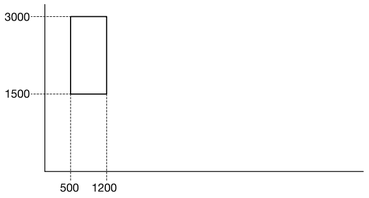
- Lock (optional)
- Soft close (optional)
- Select from with or without ending jamb



In-wall Hanging door (1 panel on 1 track)



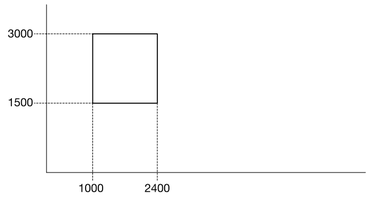
- Select from L/R
- Lock (optional)
- Soft close (optional)
- Can be a pocket door
- Select from with or without ending jamb



Hanging door (2 panels on 2 tracks)



- Select from L/R
- Lock (optional)
- Soft close (optional)
- Only single slide L/R available
- Select from Fix-Slide or Slide-Fix

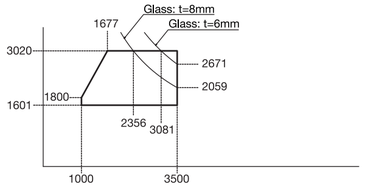


DOORS

Partition Door (2 panels on 2 tracks)



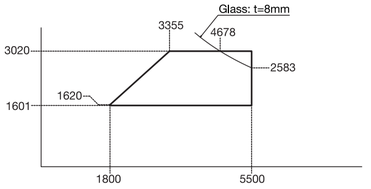
- No performance determined



Partition Door (4 panels on 2 tracks)



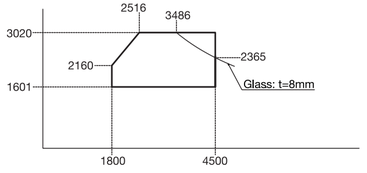
- No performance determined



Partition Door (3 panels on 3 tracks)



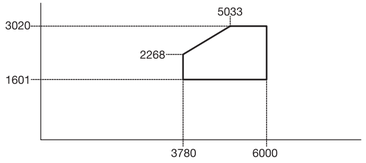
- No performance determined



Partition Door (6 panels on 3 tracks)



- No performance determined





ENTRANCE DOOR



In-swing type

Your home starts from your entrance door

Stepping into your home should make you relieved, comfortable and happy. GIESTA's high quality wood-pattern or metallic finish-doors, equipped with user-friendly handles with high security lock systems give increased convenience to both family and visitors and make us feel glad to be home.

Rumah Anda dimulai dari pintu masuk

Masuk ke rumah Anda seharusnya membuat Anda merasa lega, nyaman dan bahagia. Pintu dengan hasil akhir pola kayu atau metalik berkualitas tinggi dari GIESTA, dilengkapi dengan pegangan yang mudah digunakan dengan sistem kunci keamanan tinggi memberikan kenyamanan yang lebih bagi keluarga maupun pengunjung, serta membuat Anda merasa senang berada di rumah.



Out-swing type

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.

Pintu dengan hasil akhir pola kayu atau metalik berkualitas tinggi dari GIESTA dilengkapi dengan pegangan yang mudah digunakan. Pintu bermotif kayu atau metalik berkualitas tinggi yang dilengkapi dengan pegangan yang mudah digunakan dengan sistem kunci keamanan tinggi memberikan kenyamanan yang lebih bagi keluarga maupun pengunjung, serta membuat Anda merasa senang berada di rumah.

Please scan for product demonstration

SPECIFICATIONS

Frame depth Ketebalan kusen		101.6 mm
Height of sill Ketinggian ambang bawah		Out-Swing 50 mm
		In-Swing Outside 30 / Inside 14 mm
Door frame materials Bahan bingkai pintu	Frame Bingkai	Wood pattern type: Wood pattern resin sheet, wrapping on aluminium profile with synthetic rubber Jenis pola kayu: Lembaran resin pola kayu, dibungkus pada profil aluminium dengan karet sintetis
		Painted type anodized aluminium profile Profil aluminium anodize tipe dicat
	Sill Kusen	Anodized aluminium profile
Door panel materials Bahan panel pintu	External sheet Bagian luar	Wood pattern type : (External) Resin laminated sheet/ (Internal) Anti-rust epoxy coating Jenis pola kayu: (Eksternal) Lembaran berlapis resin / (Internal) Lapisan epoksi anti karat
	Inner Core Bagian dalam	Polystyrene (EPS Foam)
	Glass Kaca	Insulating glass thickness 23 mm (Cleared 3+Air gap 16+Patterned glass 4) Ketebalan kaca isolasi 23 mm (bukaan 3+ Celah udara 16 + Kaca berpola 4)

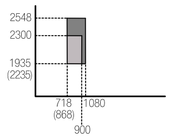
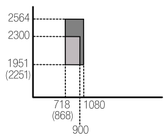
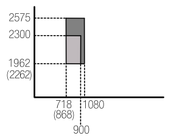
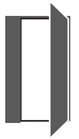
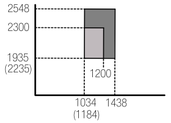
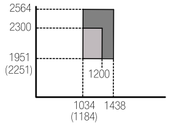
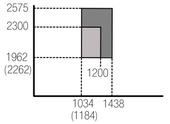
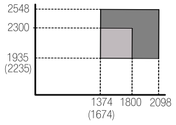
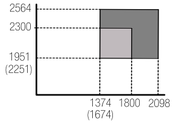


PERFORMANCES

Wind pressure	Water tightness	Air tightness	Noise insulation
JIS : S-2 (1200 pa) ASTM : 1200 pa	Out – swing : JIS : W-2 (150 pa) ASTM : 150 pa In – swing : Not rated	Out – swing : JIS : A-4 In – swing with sill : ASTM : 75 pa In – swing : Not rated	Not rated

* Reference drawing P. 164 - 166

PRODUCT VARIETY Outside View

LARGE STANDARD	L R In-Swing non sill	L R In-Swing	L R Out-Swing
Single Leaf 			
With Sidelight  With glass  Without glass Width of sidelight 【SW】 (1184) 1034 ≤ W ≤ 1248 : SW = 304 1249 ≤ W ≤ 1438 : SW = 346			
Double Leaf 			

* Numbers indicated in ( ) are the minimum dimensions for G01 design.

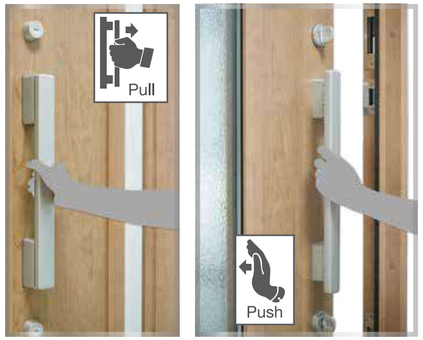


UNIQUE FEATURES



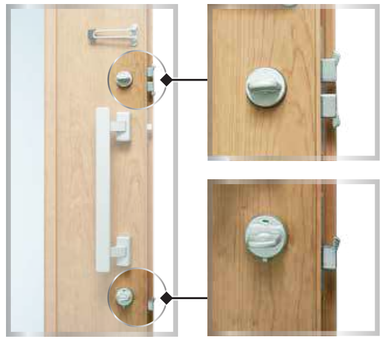
Smart design to prevent finger pinching when door is closed

Desain cerdas untuk mencegah jari terjepit saat pintu ditutup



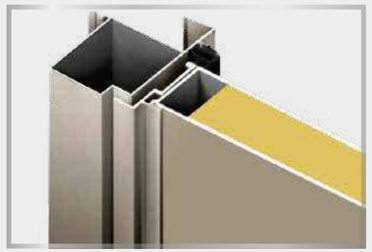
Convenient and comfortable Push & Pull bar handle when applied to Out-swing type

Pegangan Dorong & Tarik yang nyaman saat diterapkan pada tipe *Out-swing*



Higher security with double lock system, triple sickle-shaped latches

Keamanan lebih tinggi dengan sistem kunci ganda, kait berbentuk sabit tiga



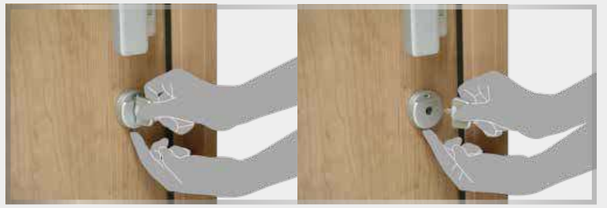
Wrapped steel panels with insulating structure inside are tough against surrounding weather and termite. It also prevents heat transmission

Panel baja dengan struktur insulasi di dalamnya tahan terhadap cuaca sekitar dan rayap, juga mencegah transmisi panas



Reversible key. User can lock and unlock with the key facing either up or down

Kunci yang dapat dibalik. Pengguna dapat mengunci dan membuka dengan kunci menghadap ke atas atau bawah



Removable thumb-turn to prevent accidental opening without key

Thumb-turn yang dapat dilepas untuk mencegah pembukaan tanpa kunci yang tidak disengaja

SIMPLE AND MINIMALISTIC



P01



P02



P03

COLORS



Turin Pine



Crea Mocha



Crea Rusk



Teak



Autumn Brown



Polish Silver



Silky White

MODERN BUT TRADITIONAL





D01



D02



D03

COLORS

Turin Pine

Crea Mocha

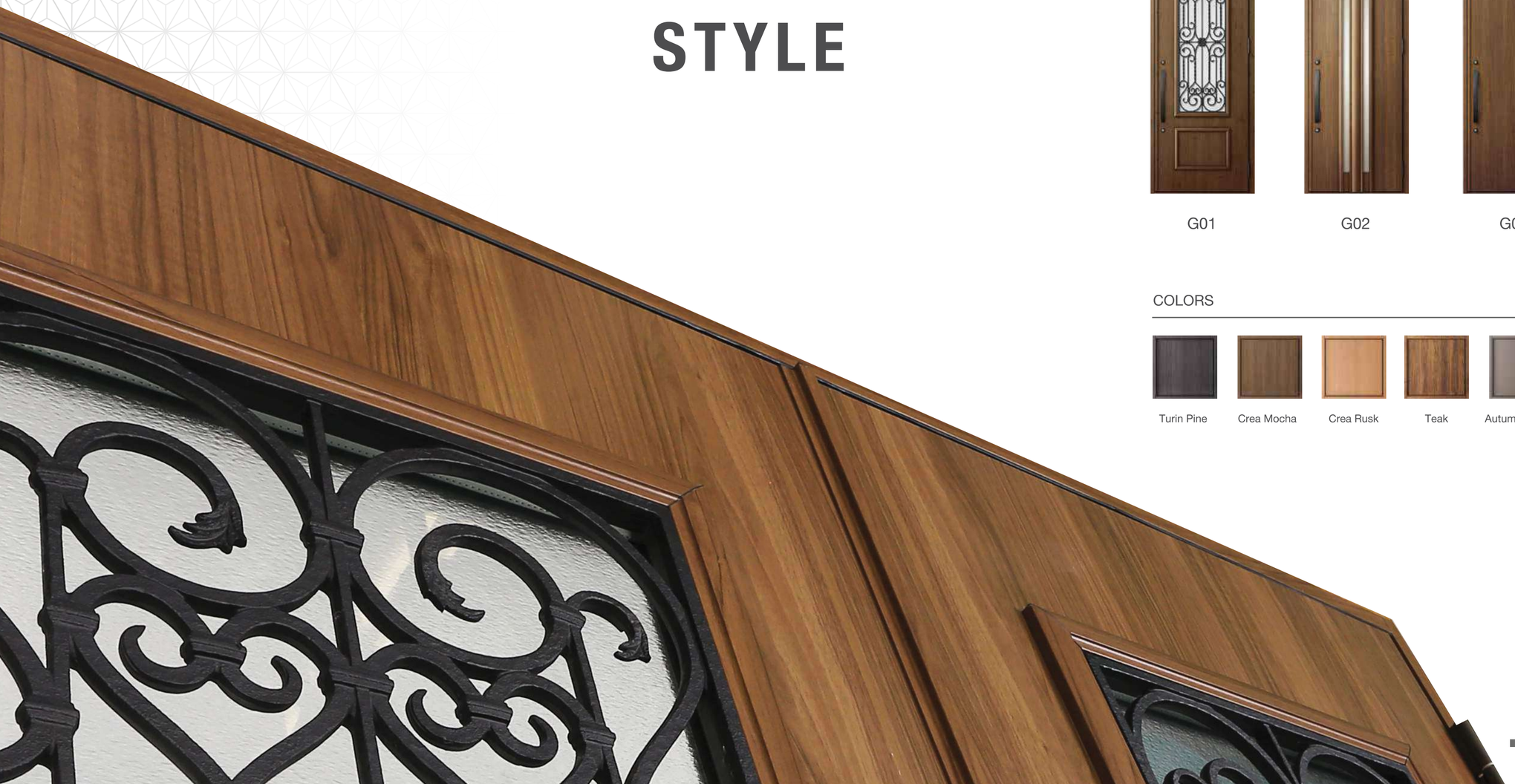


Crea Rusk



Teak

GLASS WITH STYLE



G01

G02



G03



G04

COLORS

Turin Pine

Crea Mocha

Crea Rusk

Teak



Autumn Brown*



Polish Silver*



Silky White*

*Not available for G01

HANDLES

	TYPE A	TYPE F	TYPE K	TYPE L	DIGITAL LOCK
Shapes	 Outside Inside	 Outside Inside	 Outside & Inside	 Outside & Inside	 Outside Inside
Colors	Blast Silver Silky Matte Black	Blast Silver Silky Matte Black	Satin Gold Silky Matte Black	Blast Silver Silky Matte Black	Silver Black
Applications	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	Apply for both Out-swing and In-swing door

*Handle A and F
• Can be applied to In-swing door as special order.
• Handle will be inside out.

ACCESSORIES

	DOOR CLOSER	DOOR GUARD	CYLINDER LOCK & KEY
For Out-swing doors	 Autumn Brown Shine Grey Natural White	 Blast Silver Satin Gold Silky Matte Black	 Inside Outside Construction keys: 3 Owner keys: 5
For In-swing doors	 Autumn Brown Shine Grey	 (For single leaf type only) Silver	Blast Silver Satin Gold Silky Matte Black
Main materials	Aluminium	Aluminium	Steel with resin coating

DESIGN AND COLOR TABLE

	SIMPLE AND MINIMALISTIC									MODERN BUT TRADITIONAL									GLASS WITH STYLE											
	P01			P02			P03			D01			D02			D03			G01			G02			G03			G04		
	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double	Single	Sidelight	Double
Turin Pine																														
Crea Mocha																														
Crea Rusk																														
Teak																														
Autumn Brown										N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									
Silk White										N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									
Polish Silver										N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A	N / A									

*Sidelight without glass (side panel) is also available.
*For handle type K,L and digital lock, the handle will only be on the main panel.

GIESTA PROJECT REFERENCE





Wind Pressure Resistance Performance

Wind pressure resistance performance indicates at what level windows and doors can bear the wind load. The purpose is to ensure that selected windows can resist a level of wind load in area and height without any loss, cracking, or breakage.

This performance is also related to dust prevention, sound insulation, and thermal insulation.

Performa ketahanan tekanan angin menunjukkan tingkat kemampuan jendela dan pintu dalam menahan tekanan angin. Tujuannya adalah memastikan bahwa pintu dan jendela yang dipilih dapat menahan tingkat tekanan angin di area dan ketinggian tanpa terjadinya celah, keretakan, atau kerusakan.

Performa ini juga berkaitan dengan pencegahan debu, isolasi suara, dan isolasi panas.



WIND PRESSURE RESISTANCE
JIS (A4702-2000 and A4706-2000)

Class		Value corresponding to each class
		[Maximum pressure]
Higher ↑	S-7 (360)	3600 Pa
	S-6 (280)	2800 Pa
	S-5 (240)	2400 Pa
	S-4 (200)	2000 Pa
	S-3 (160)	1600 Pa
	S-2 (120)	1200 Pa
	S-1 (80)	800 Pa

WIND PRESSURE AND VELOCITY
TEKANAN DAN KECEPATAN ANGIN

Wind pressure	Wind velocity	Phenomenon
1800 Pa	60 m/s	Steel tower may fall down. Menara besi dapat terjatuh
1250 Pa	50 m/s	Wooden houses will collapse. Rumah kayu akan hancur
800 Pa	40 m/s	Tiles will fly. Antennas will fall off. Ubin-ubin berterbangan. Antena akan terjatuh
450 Pa	30 m/s	Twigs will snap off. Cannot stand on your own. Ranting pohon patah. Tidak dapat berdiri.
200 Pa	20 m/s	Signboard will fall over. Cannot walk toward the wind. Baligo rubuh. Tidak dapat berjalan.
50 Pa	10 m/s	Cannot use umbrella. Hard to walk toward the wind. Tidak dapat menggunakan payung.

Reference:

"Makurazaki Typhoon" in Japan 1945, had a wind velocity of approx. 51.3 m/s. 3,122 people were killed or reported missing and 113,438 houses collapsed.

"Harricane Katrina" in New Orleans 2005, had a wind velocity of 65-78 m/s.

AIR TIGHTNESS
JIS (A4702-2000 and A4706-2000)

Class		Value to corresponding to each class ⊿P=10Pa
		[Air leak]
Higher ↑	A-4 (2)	2m³ / m² / hour
	A-3 (8)	8m³ / m² / hour
	A-2 (30)	30m³ / m² / hour
	A-1 (120)	120m³ / m² / hour

AIR TIGHTNESS PERFORMANCE

Air tightness performance indicates how much air can pass through gaps between frame and panel of windows and doors. The purpose is to evaluate the level of air coming into a room.

This performance is also related to dust prevention, sound insulation, and thermal insulation.

Performa kekedapan udara menunjukkan berapa banyak udara yang dapat melewati celah antara kusen dan panel jendela dan pintu. Tujuannya adalah mengevaluasi tingkat udara yang masuk ke dalam ruangan.

Performa ini juga berkaitan dengan pencegahan debu, isolasi suara, dan isolasi panas.

Water Tightness Performance

Water tightness performance indicates the rate at which a window can prevent the infiltration of rainwater into a room. The purpose is to help select a watertight performance that can prevent interior damage from water intrusion into a room.

Performa kekedapan air menunjukkan tingkat kemampuan pintu dan jendela dapat mencegah infiltrasi air hujan ke dalam ruangan. Tujuannya adalah membantu memilih performa kekedapan air yang dapat mencegah kerusakan interior dari masuknya air hujan ke dalam ruangan.



WATER TIGHTNESS

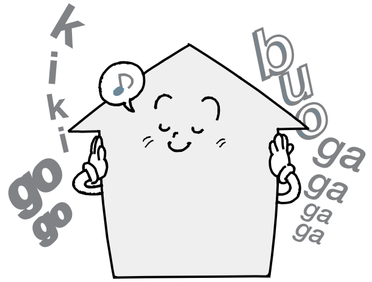
JIS (A4702-2000 and A4706-2000)

Class	Value corresponding to each class
Higher	[Pressure difference]
W-5 (50)	500 Pa
W-4 (35)	350 Pa
W-3 (25)	250 Pa
W-2 (15)	150 Pa
W-1 (10)	100 Pa

Sound Insulation Performance

Sound insulation performance indicates a level of sound blocked out from outside to inside. The purpose is to measure the level of sound that can be insulated by a window. Each project may have different sound insulation level requirements.

Performa isolasi suara menunjukkan tingkat suara yang diredam dari luar ke dalam. Tujuannya adalah mengukur tingkat suara yang dapat diisolasi oleh pintu dan jendela. Setiap proyek mungkin memiliki persyaratan tingkat isolasi suara yang berbeda.



SOUND INSULATION PERFORMANCE

JIS (A4706 and A4702)

Class	Sound transmission class
Higher	
T-4	40 dB
T-3	35 dB
T-2	30 dB
T-1	25 dB

SOUND PERCEPTION

Perception toward noises varies among individuals. However, it is said that when the noise level is lowered by 10 dB (A), people feel that the noise level has halved.

Persepsi suara bervariasi tiap individu. Bagaimanapun, ketika tingkat kebisingan diturunkan ke 10 dB(A), manusia merasakan tingkat kebisingan telah menurun.

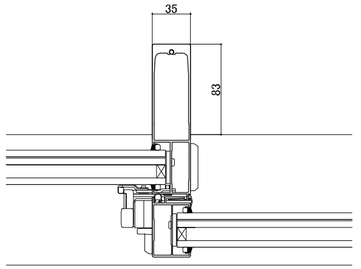




	Noise level dB(A)	Surrounding noise	Same noise during midday	Impact on Hearing
	110	Klaxon (1m distance) / Sound from press machine		Hearing dysfunction
	100	Underneath the elevated railway tracks when trains are running		
	90	In trains / At the bowling alley	Beside the railway tracks/ Motorway	Extreamly Noisy
	80	Intersection of main avenue / Bus traffic level	Residential area in the city/ Motorway / Street of office building	
	70	On the street / Taxi traffic level	Residential area in the city/ Motorway / Residential area in suburban district / Street of office buildings	Noisy
	60	Inside of department stores/ Normal conversation	Residential area in the city	
	50	Quiet offices	Residential area in suburban district	Ideal level for daily life
	40	Quiet parks	Residential area in suburban district	
	30	Suburban area around midnight		Quiet
	20	Whisper		

REFERENCE DRAWING

GRANTS WINDOW SERIES



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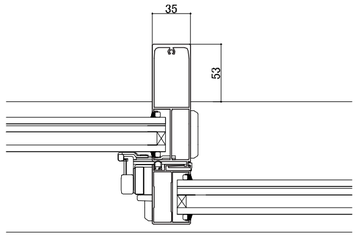

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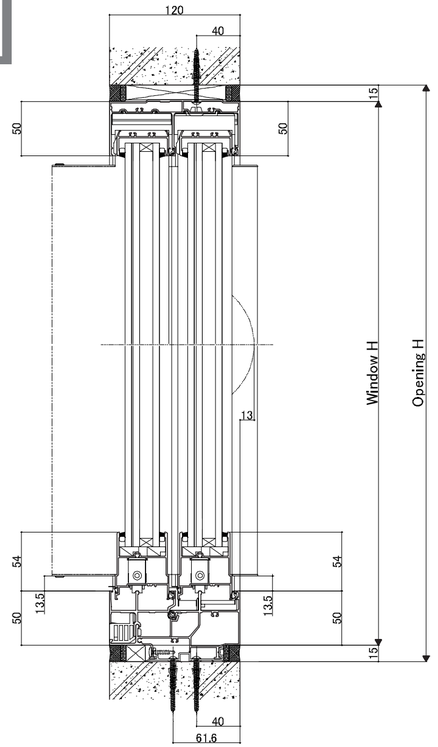
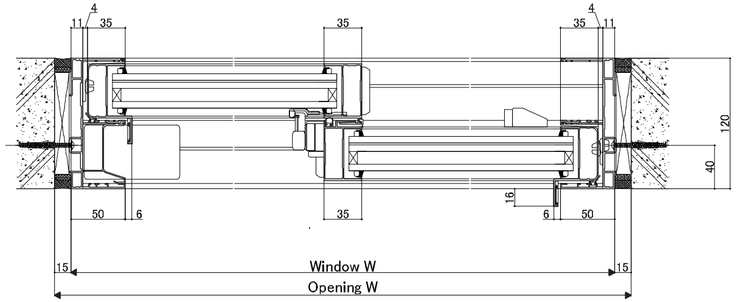
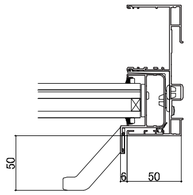


<Vertical section: 2 panels sliding window>



<Horizontal section: 2 panels sliding window>



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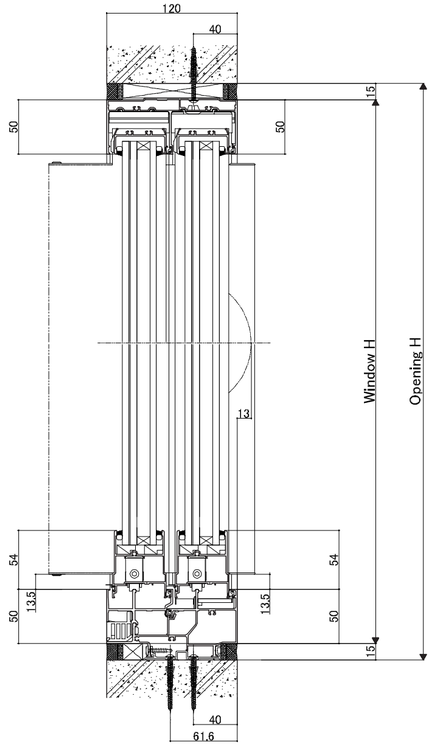
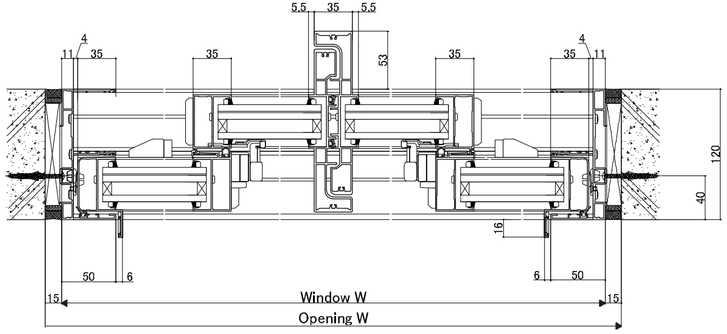


<Vertical section: 4 panels sliding window>



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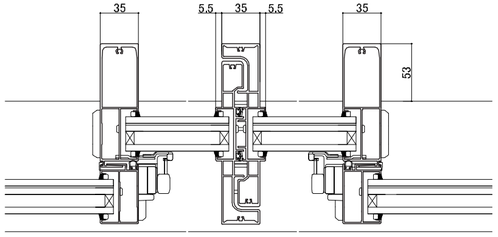
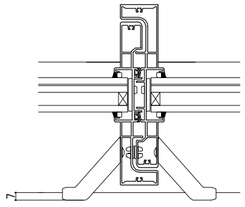


<Stiles detail: In case of large openings>



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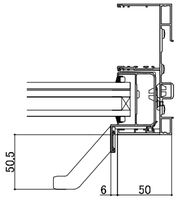
(Butting stile)



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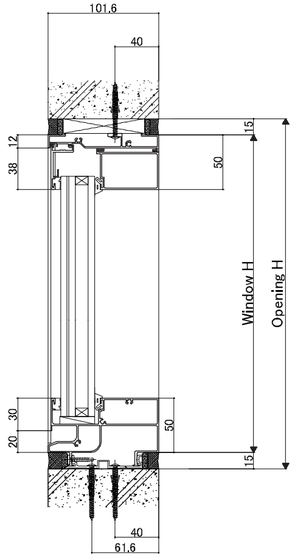
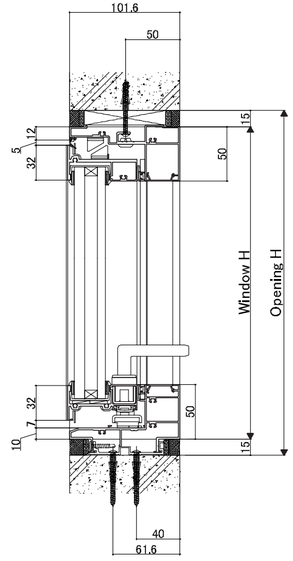
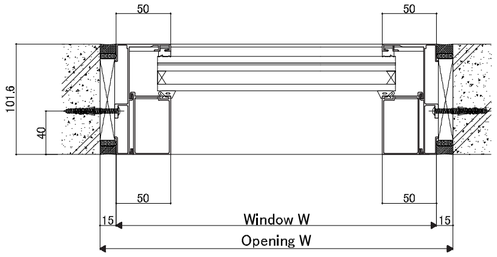
(Stile)



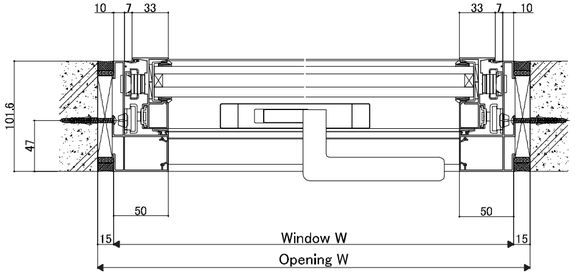
<Vertical section: Fixed window>



<Vertical section: Awning window>



<Horizontal section: Fixed window>



<Horizontal section: Awning window>

GRANTS DOOR SERIES

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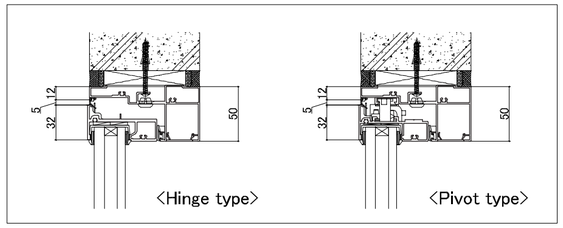

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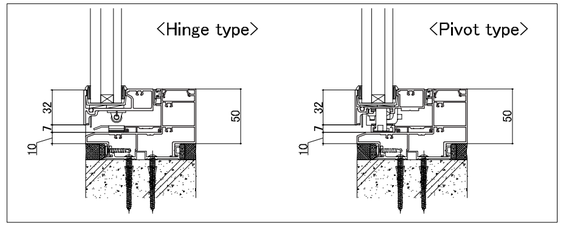

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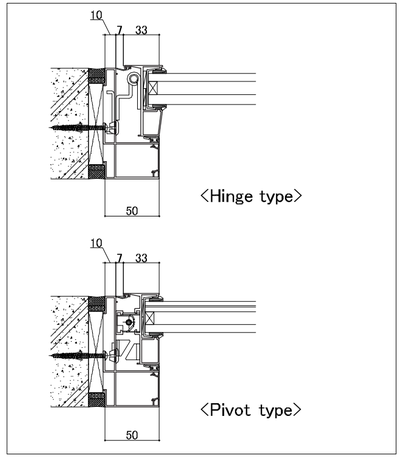
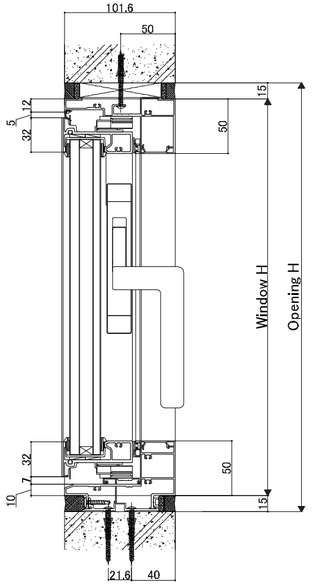
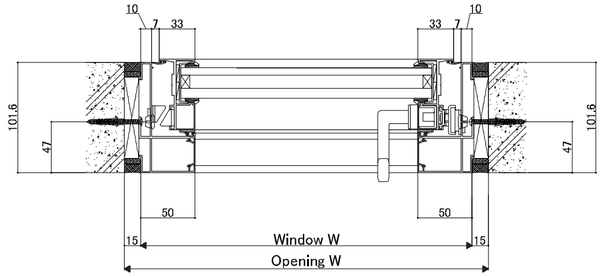
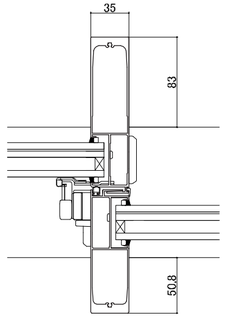




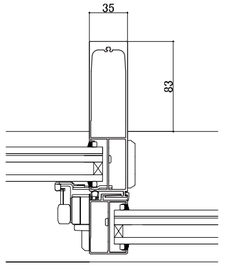
<Vertical section: Casement (with friction stay)



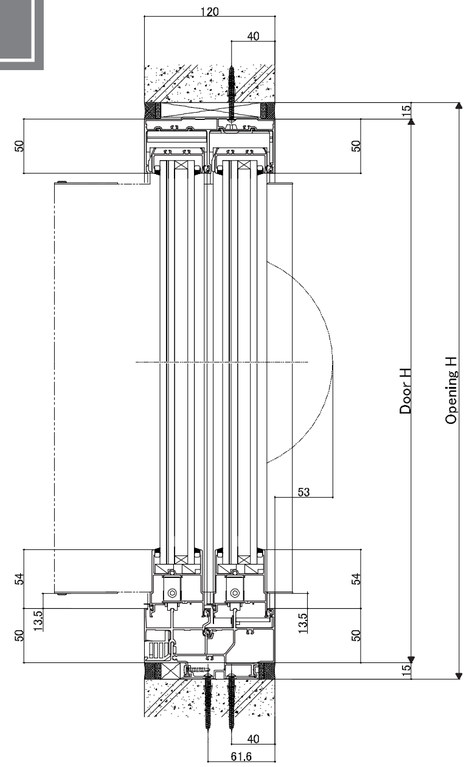
<Horizontal section: Casement (with friction stay)>



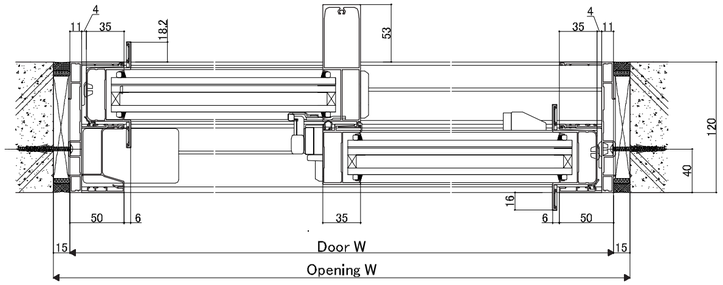
<Meeting stile detail: In case of largest openings>



<Meeting stile detail: In case of larger openings>



<Vertical section: 2 panels Sliding door>



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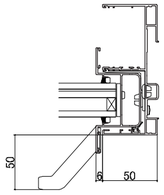

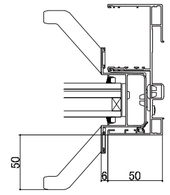

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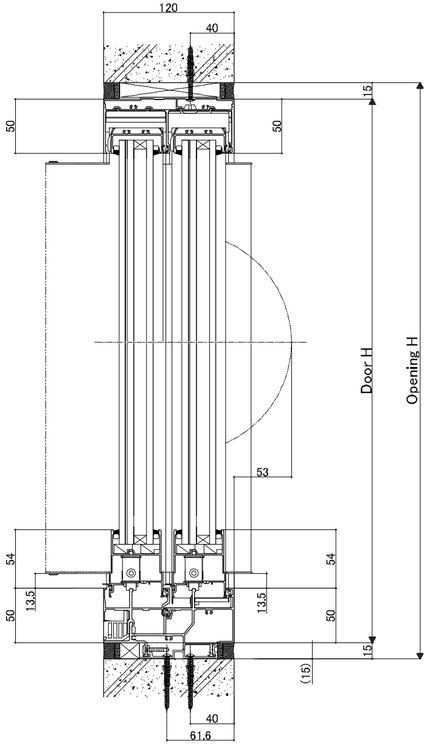
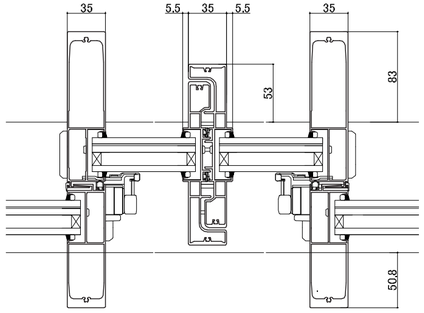
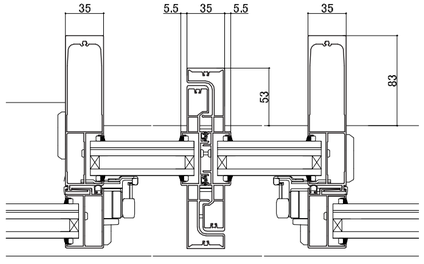


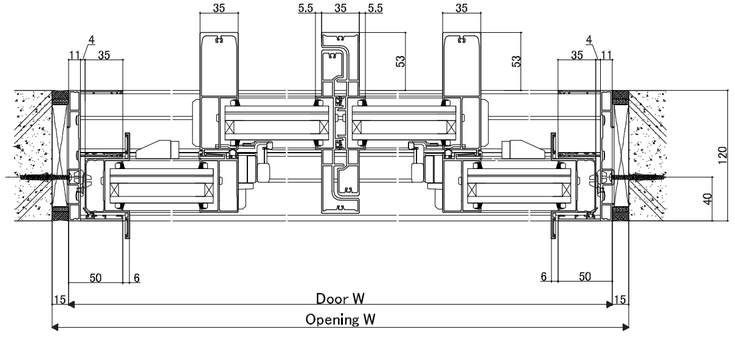
〈Vertical section: 4 panels sliding door〉



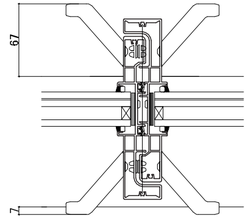
〈Stiles detail: In case of largest openings〉



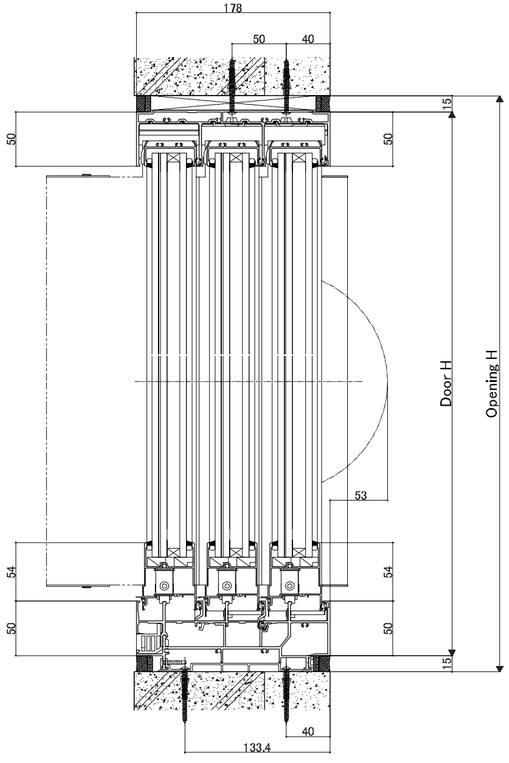
〈Stiles detail: In case of larger openings〉



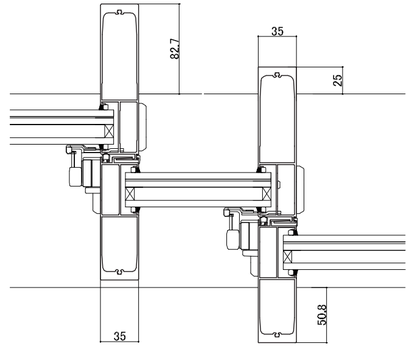
〈Horizontal section: 4 panels sliding door〉



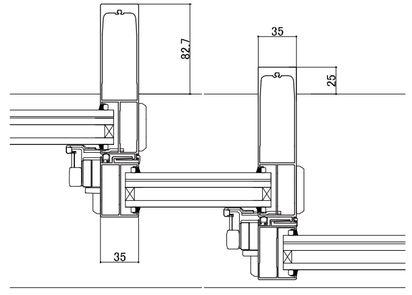
〈In case with handle option〉



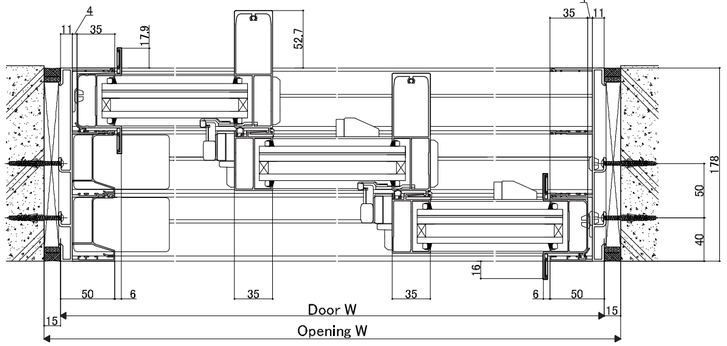
〈Vertical section: 3 panels sliding door〉



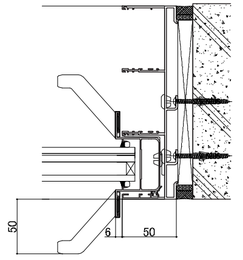
〈Stiles detail: In case of largest openings〉



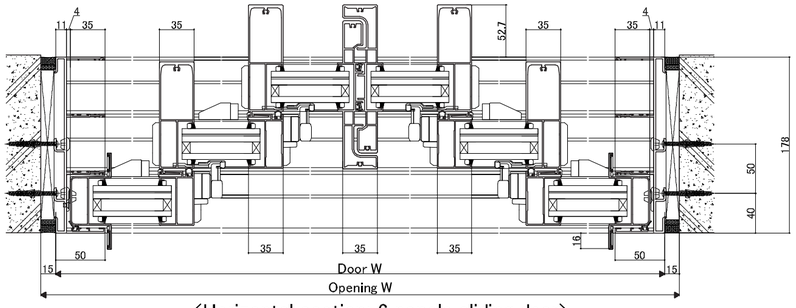
〈Stiles detail: In case of largest openings〉



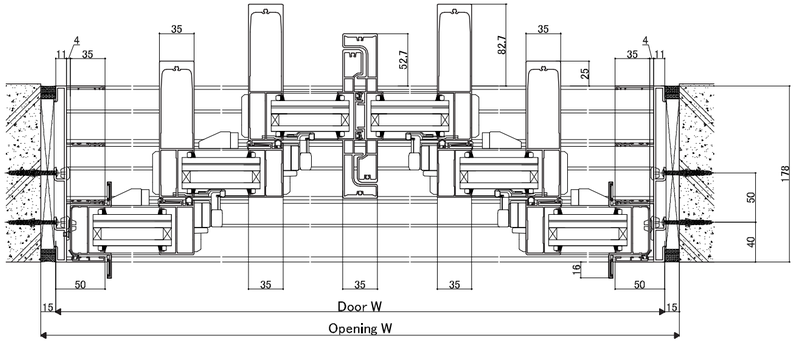
〈Horizontal section: 3 panels sliding door〉



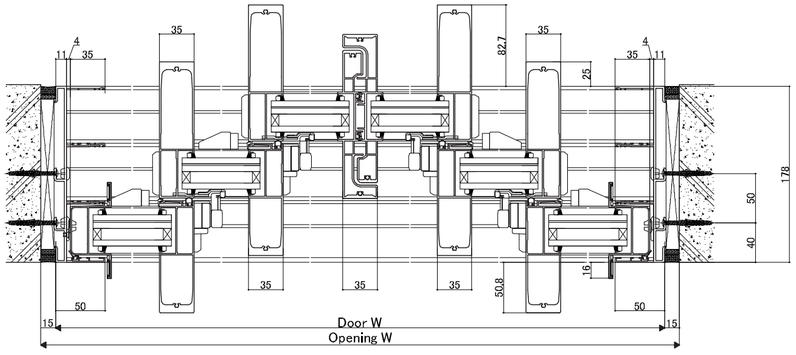
〈In case with handle option〉



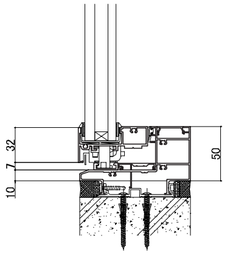
<Horizontal section: 6 panels sliding door>



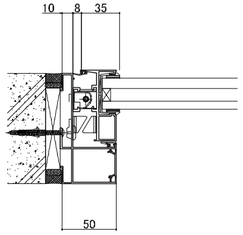
<Horizontal section: 6 panels sliding door (larger) >



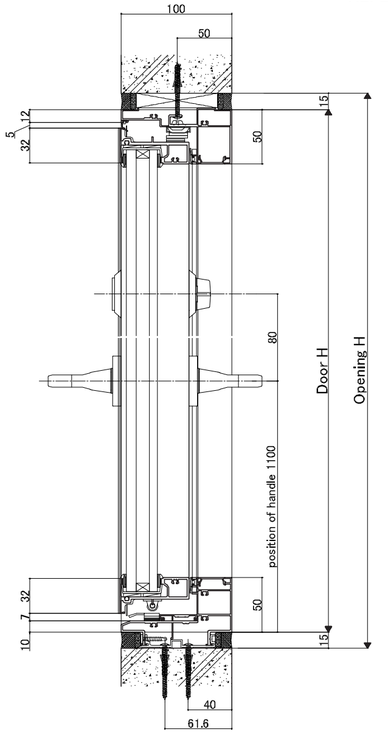
<Horizontal section: 6 panels sliding door (largest) >



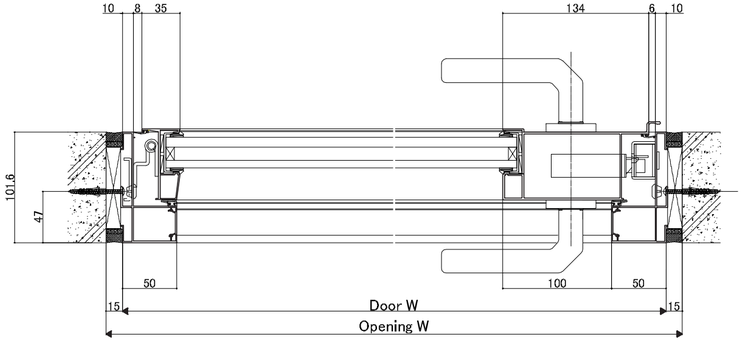
<Sill detail: Pivot hinge>



<Jamb detail: Pivot hinge>

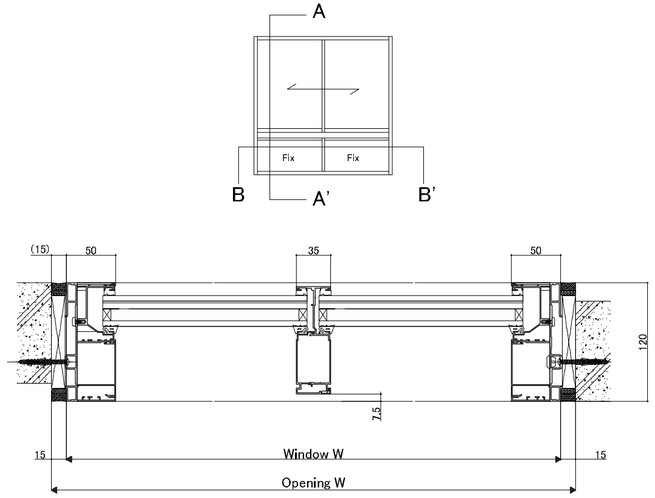


<Vertical section: Single out-swing door>



<Horizontal section: Single out-swing door>

GRANTS COMBINATION



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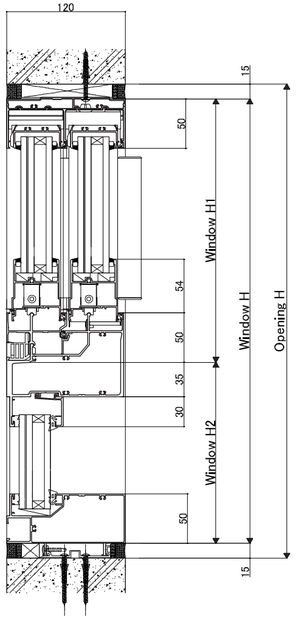

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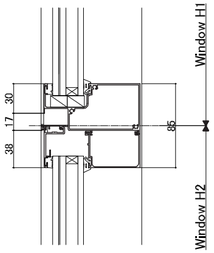

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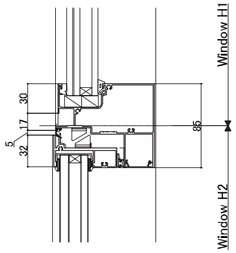

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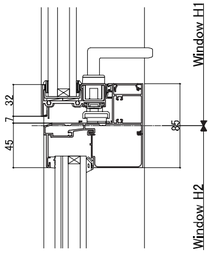

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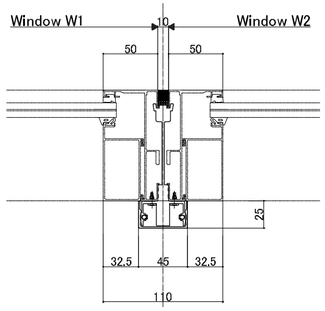
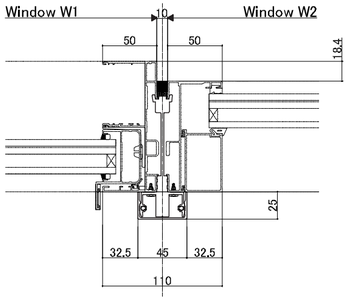
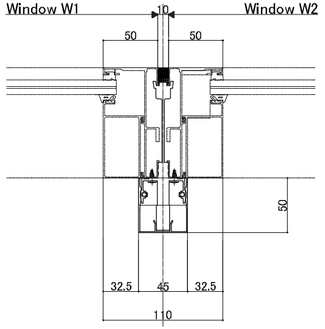


<Mullion type A>



<Mullion type A with sliding window>



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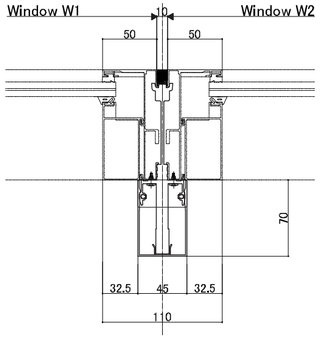

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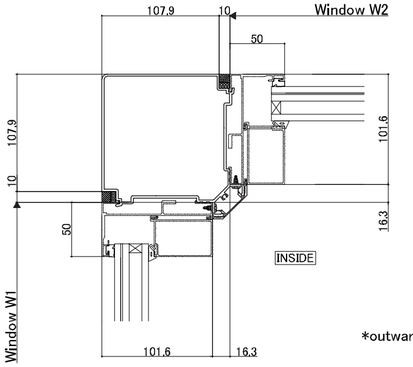
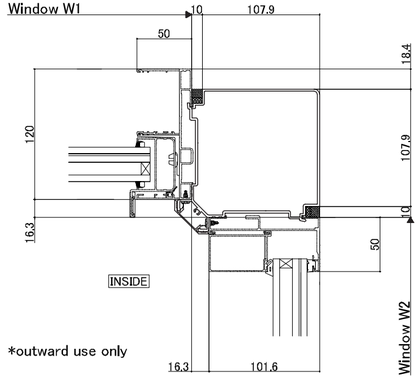


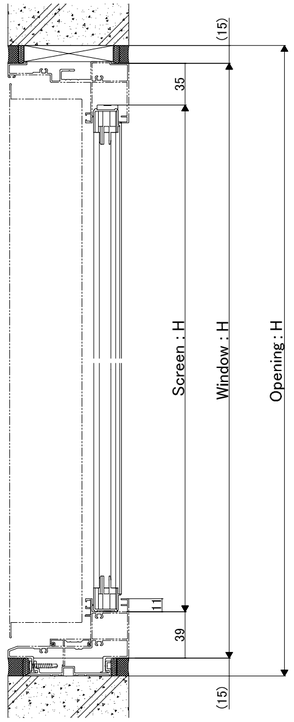
*outward use only

<Corner mullion>

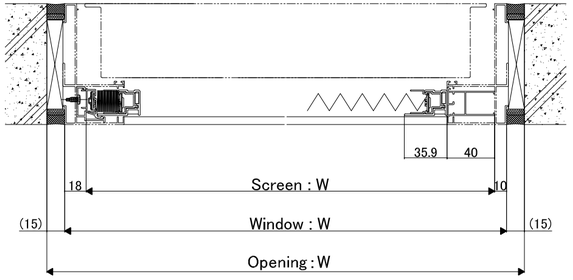


*outward use only

<Corner mullion with sliding window>

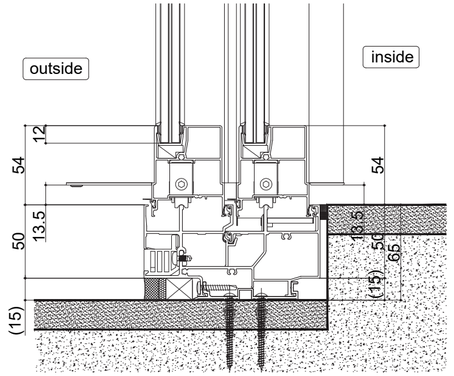


<Vertical section: Awning & Casement>

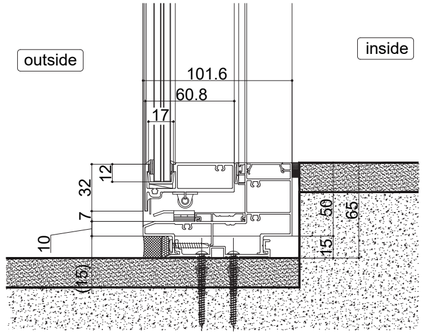


<Horizontal section: Awning & Casement>

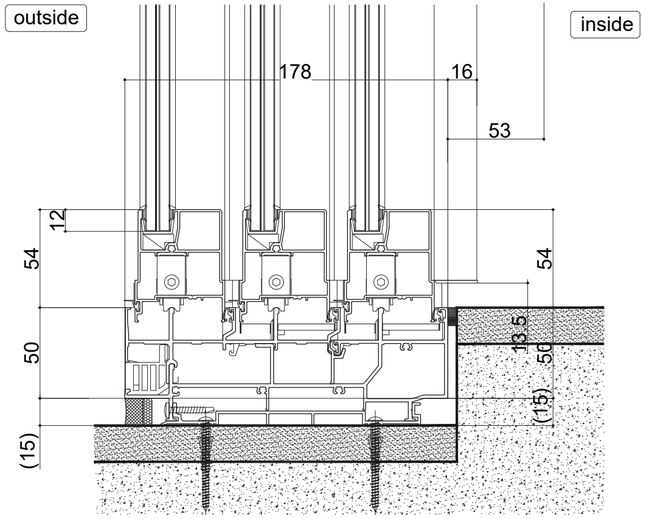
GRANTS DROP LEVEL



Drop level: 2 panels sliding door

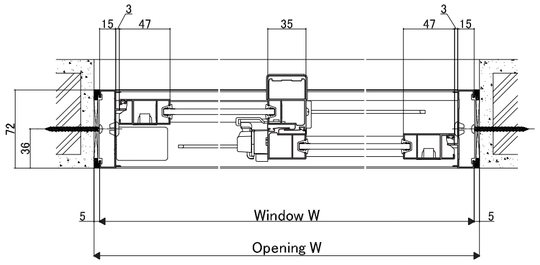


Drop level: terrace door

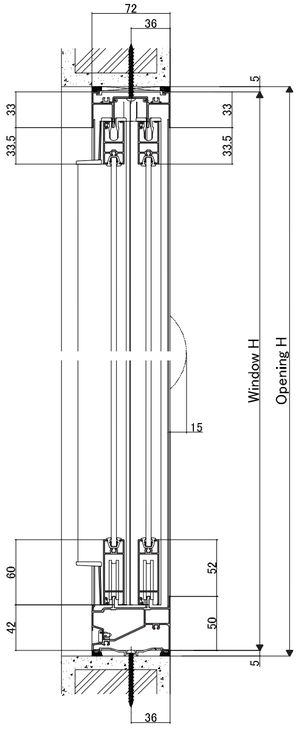


Drop level: 3 panels sliding door

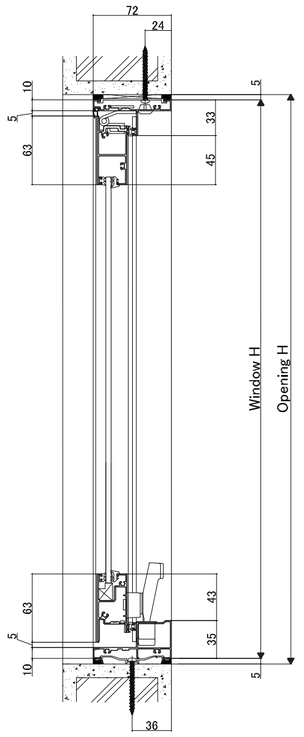
WE PLUS WINDOW SERIES



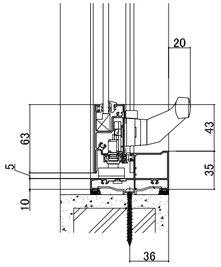
<Horizontal section: 2 panels sliding window>



<Vertical section: 2 and 4 panels sliding window>



<Vertical section: Awning (single lock)>



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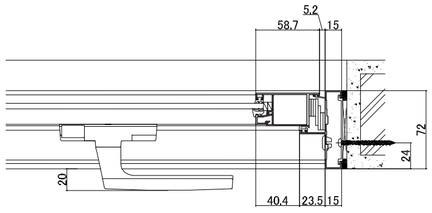
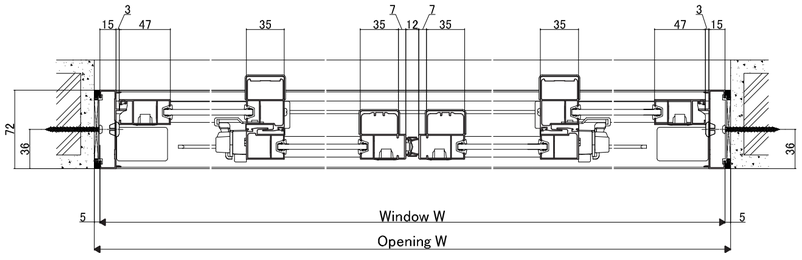
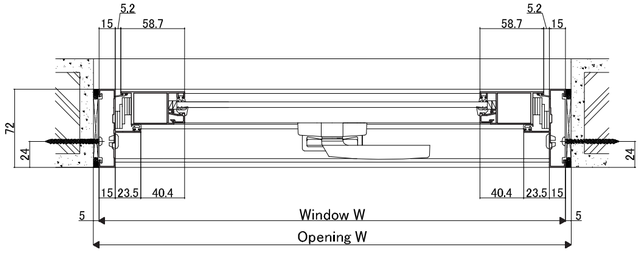


<Multi lock jamb detail>



<Horizontal section: 4 panels sliding window>



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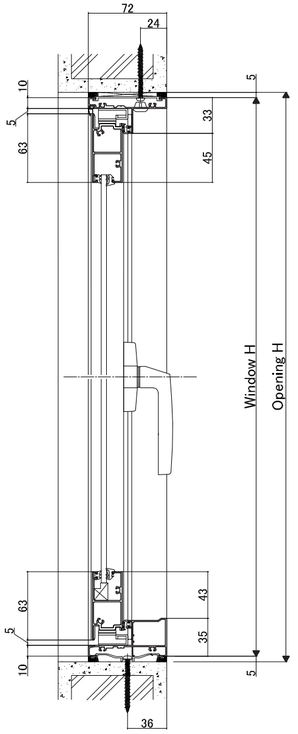

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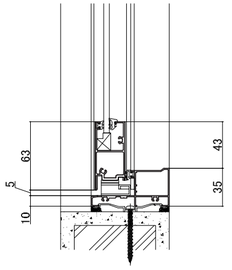

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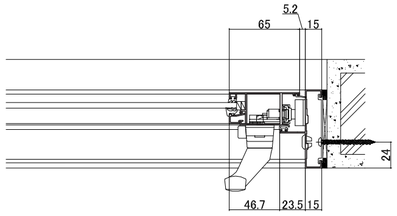

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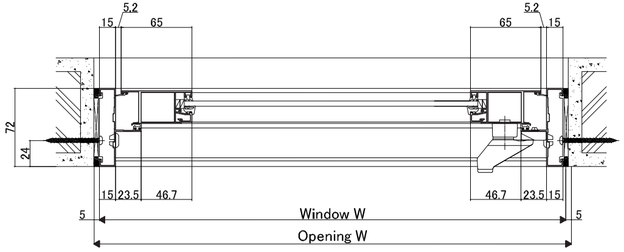

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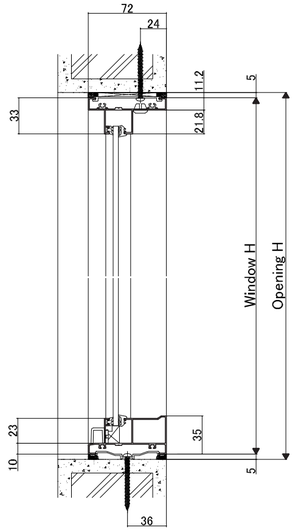
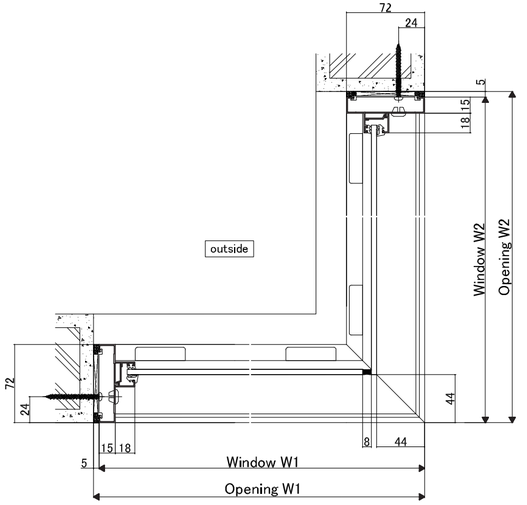


<Vertical section: Single and corner fixed window>



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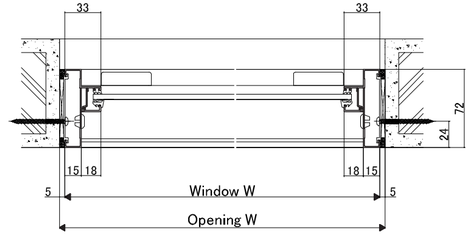
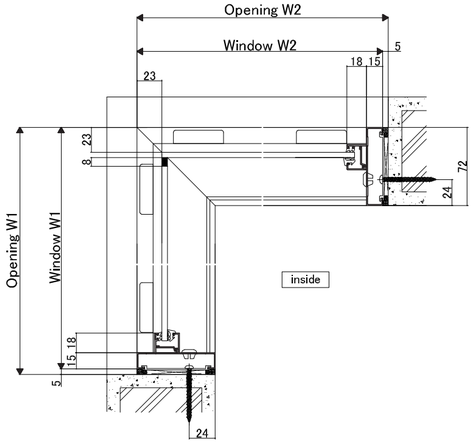
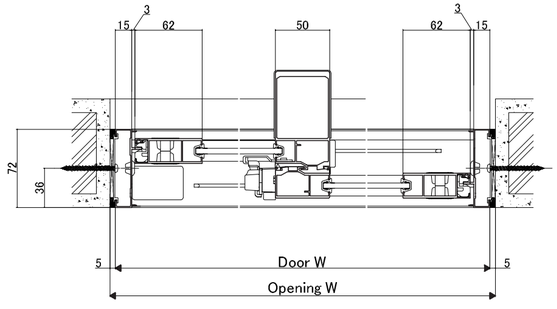


<Horizontal section: Single fixed window>

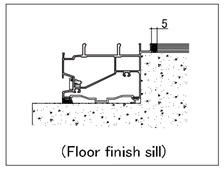


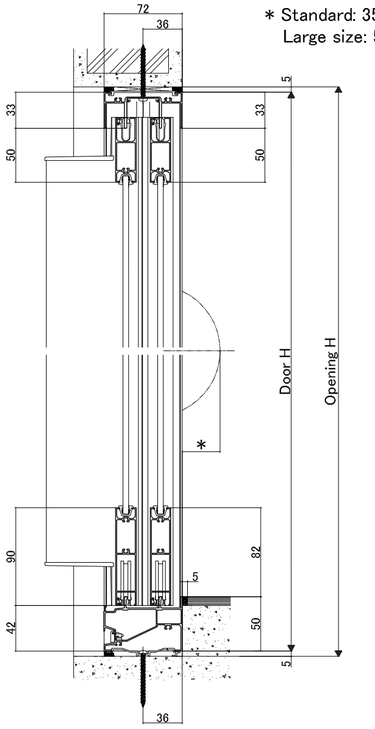
<Horizontal section: Outward fixed window>

WE PLUS DOOR SERIES



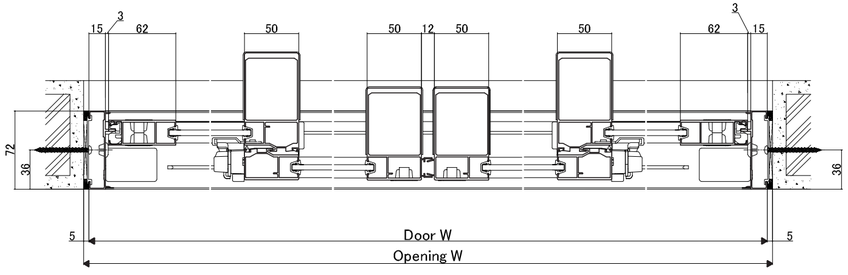
<Horizontal section: 2 panels sliding door>



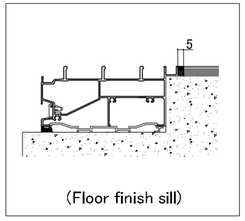


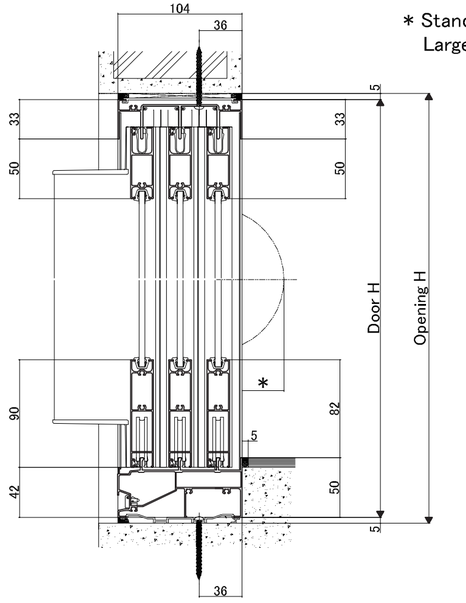
* Standard: 35mm,
Large size: 50mm

<Vertical section: 2 and 4 panels sliding door>



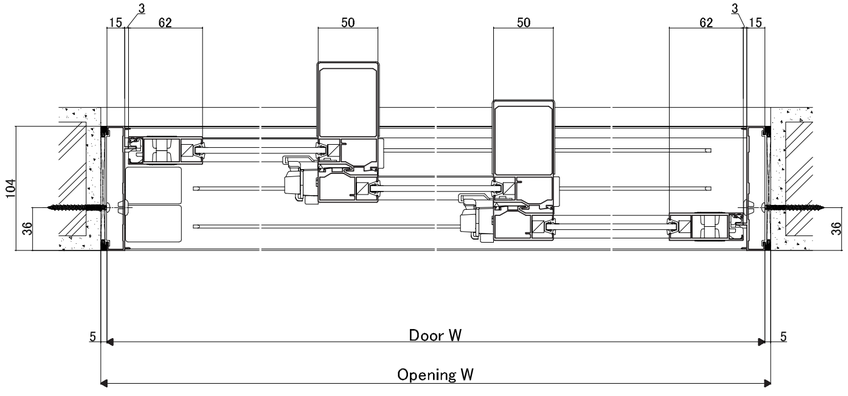
<Horizontal section: 4 panels sliding door>



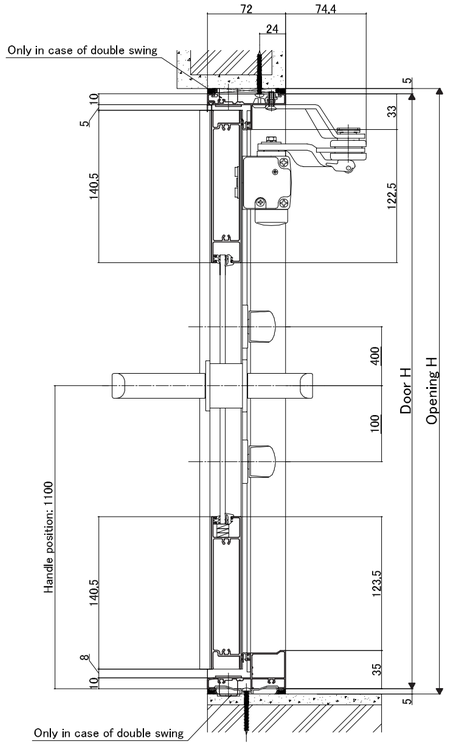


* Standard: 35mm
Large size: 50mm

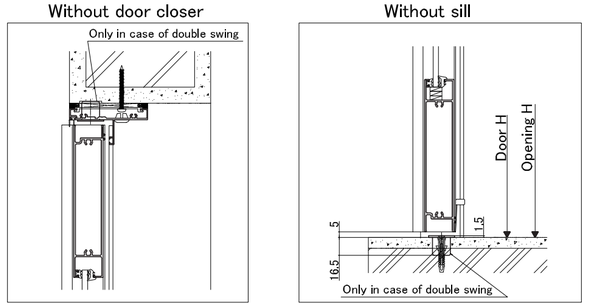
<Vertical section: 3 panels sliding door>

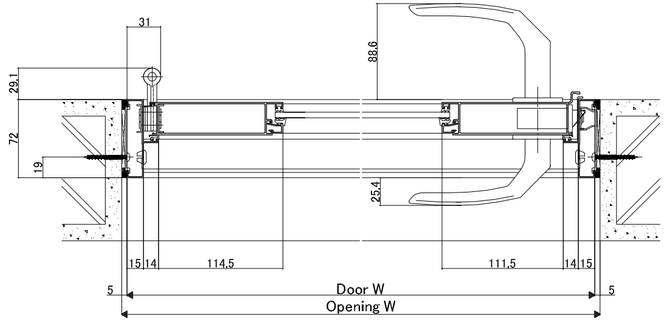


<Horizontal section: 3 panels sliding door>

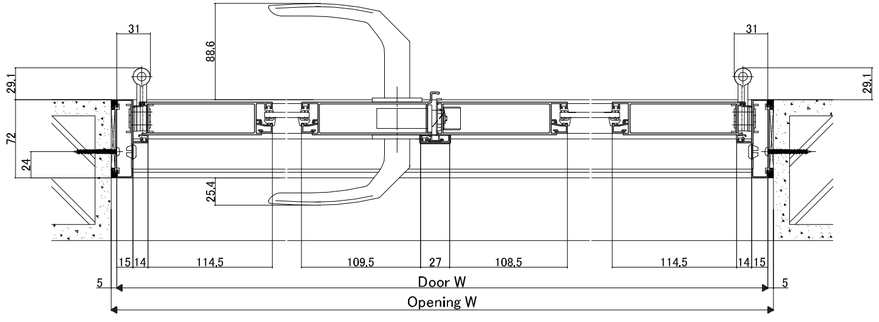


<Vertical section: Single & double out-swing door with sill>





<Horizontal section: Single out-swing door>



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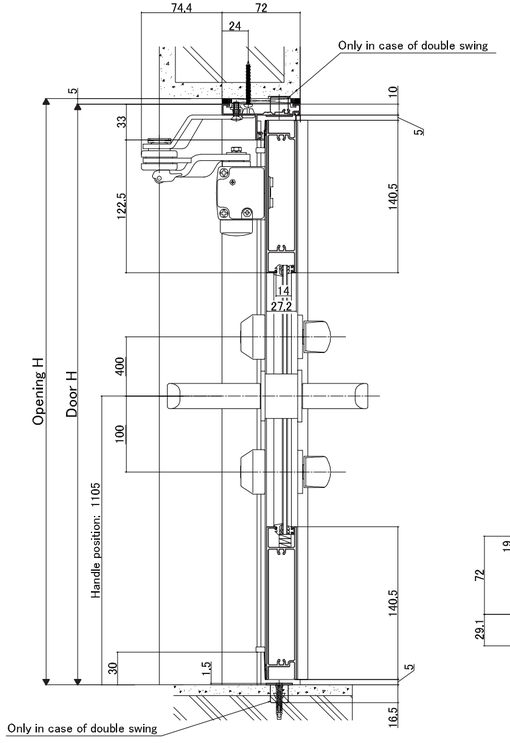
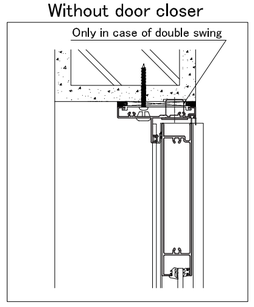
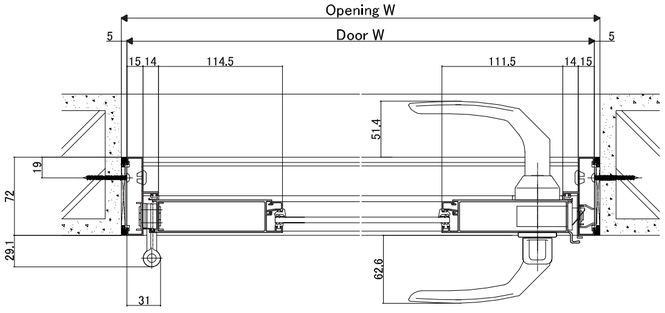


<Vertical section: Single & double in-swing door>





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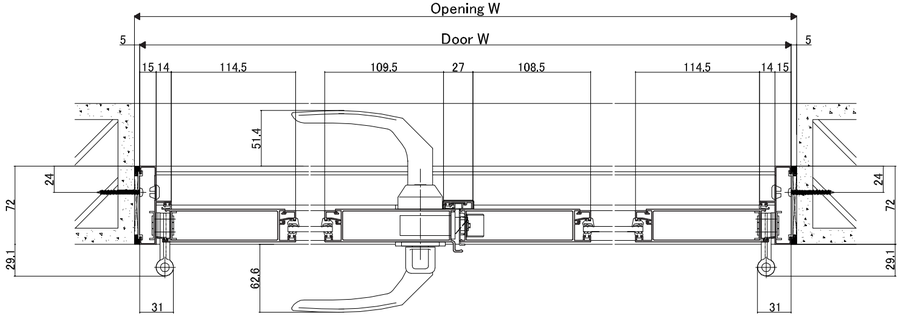
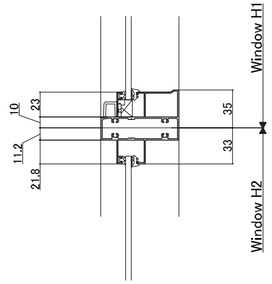


<Horizontal section: Double in-swing door>

WE PLUS COMBINATION



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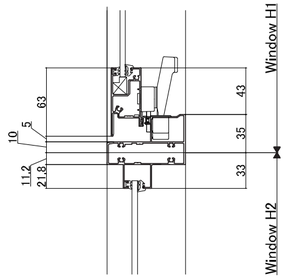

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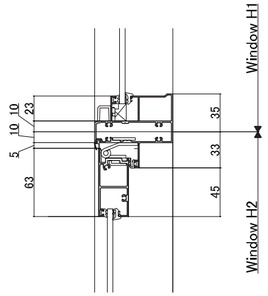

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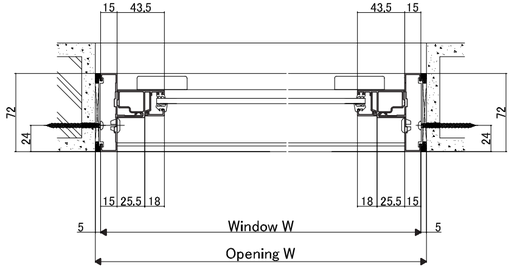

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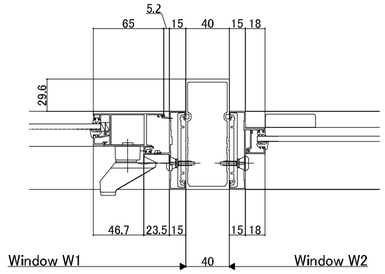

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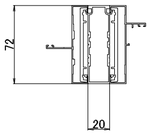

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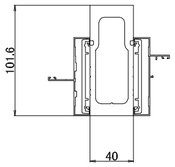

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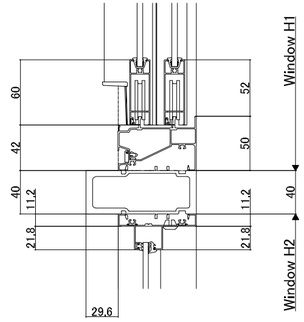

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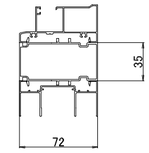

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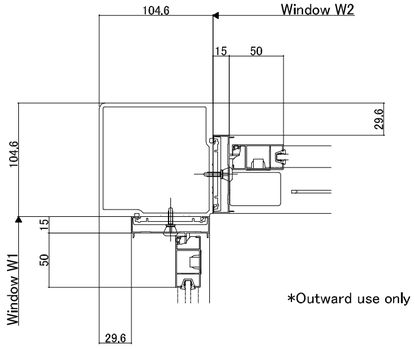

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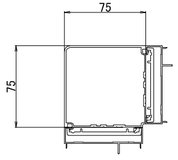

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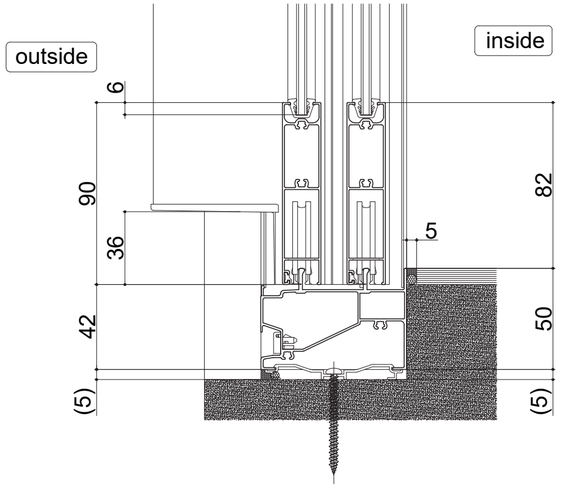
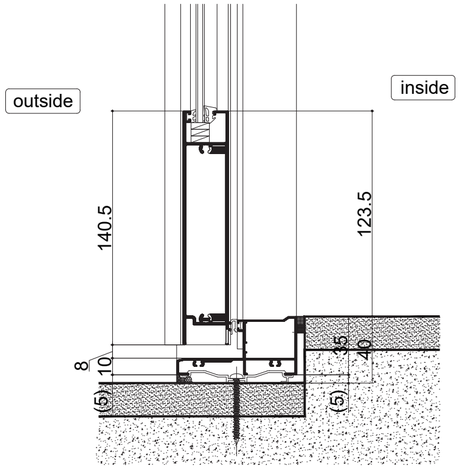
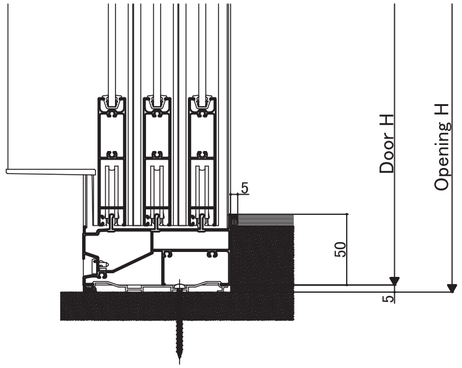
WE PLUS DROP LEVEL



Drop level: 2 panels sliding door

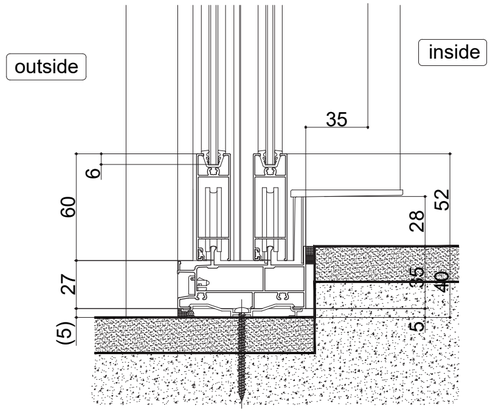


Drop level: Terrace

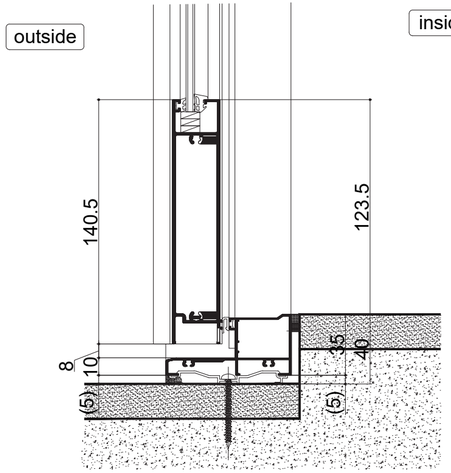


Drop level : 3 panels sliing door

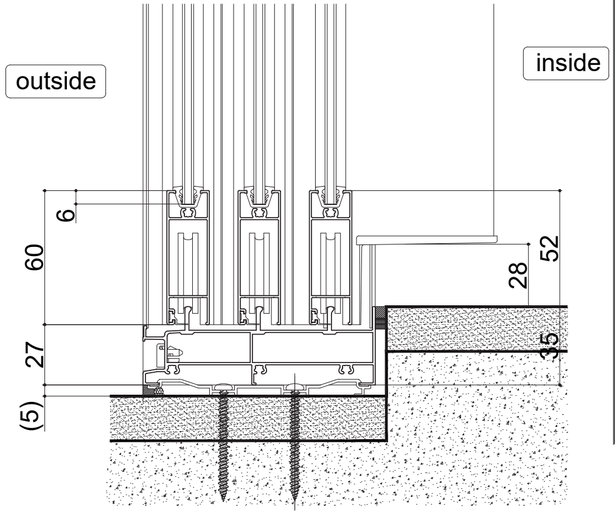
VIEW DROP LEVEL



Drop level: 2 panels sliding door

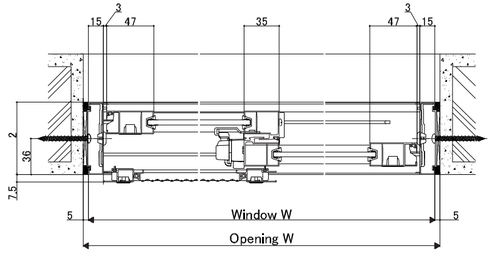


Drop level: terrace door

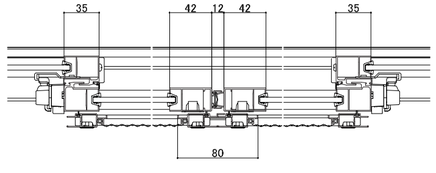


Drop level: 3 panels sliding door

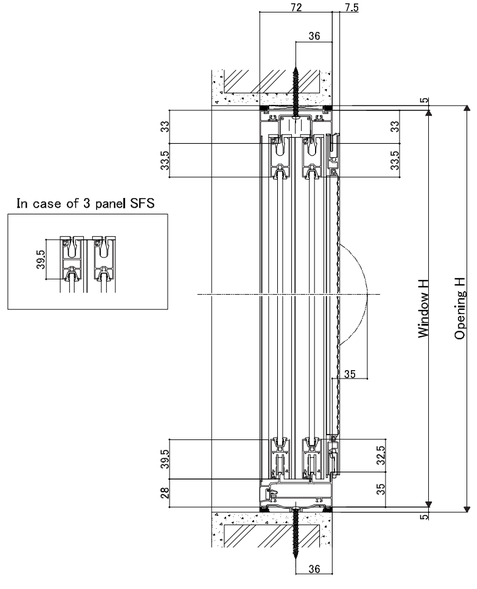
WE 70 WINDOW SERIES



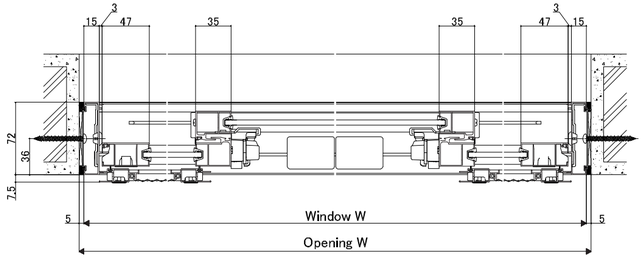
<Horizontal section: 2 panels sliding window>



<Horizontal section: 4 panels sliding window>



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



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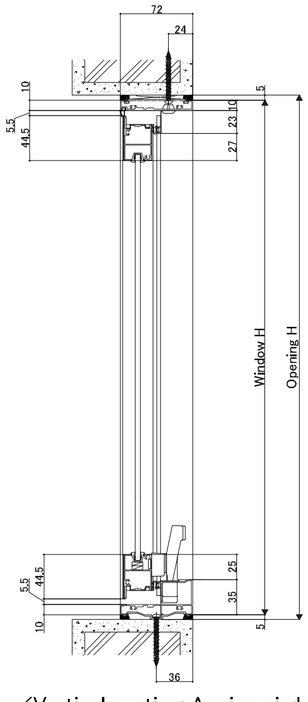
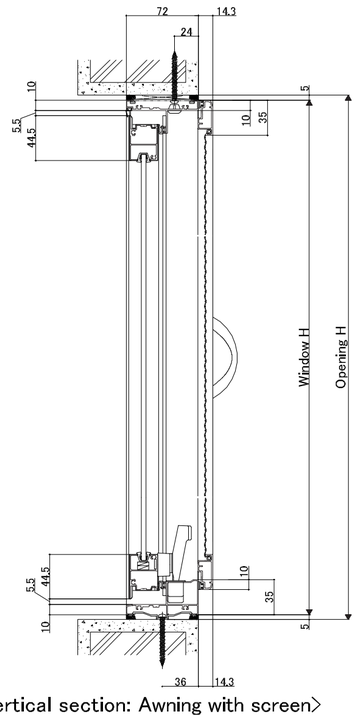
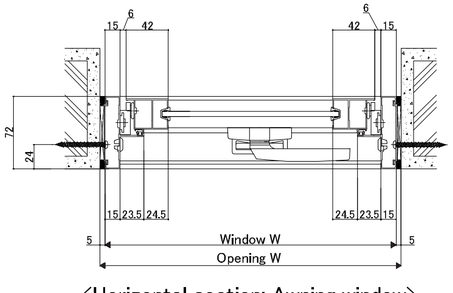


<Vertical section: Awning window>



<Vertical section: Awning with screen>



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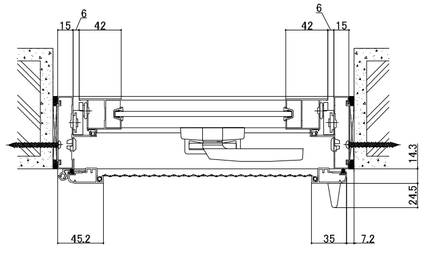

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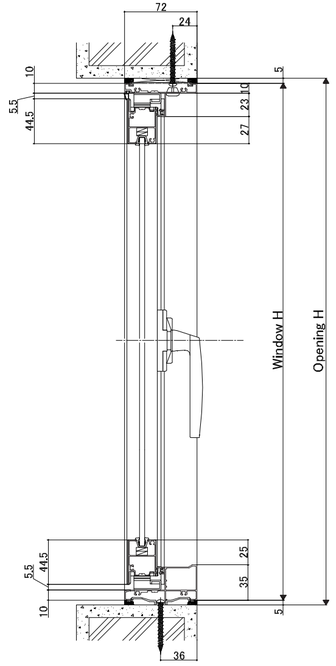
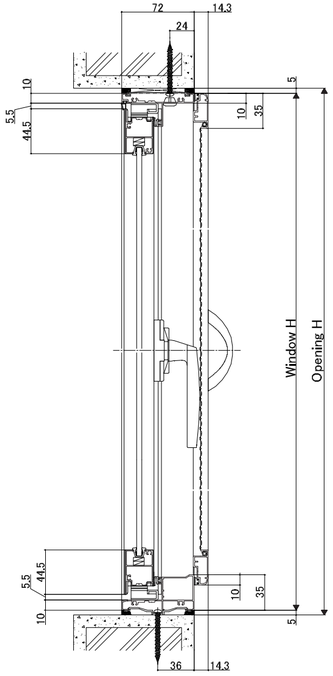


<Vertical section: Casement window>



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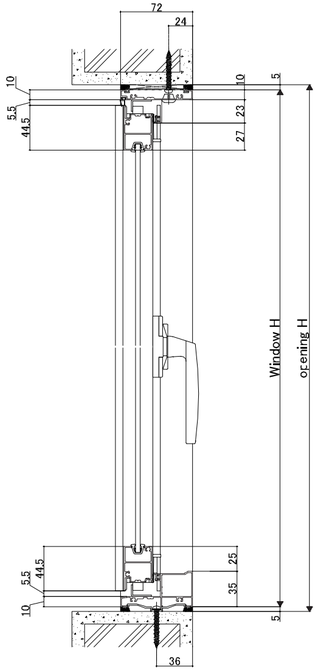
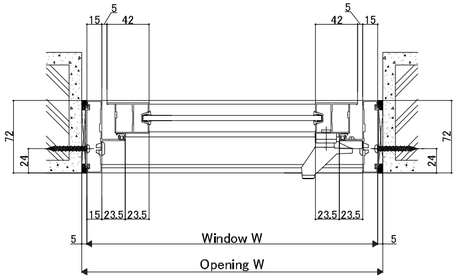


<Vertical section: Double casement window>



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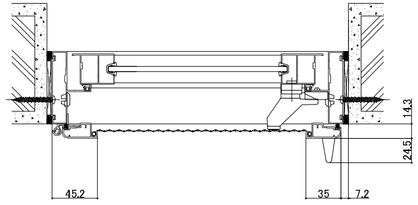

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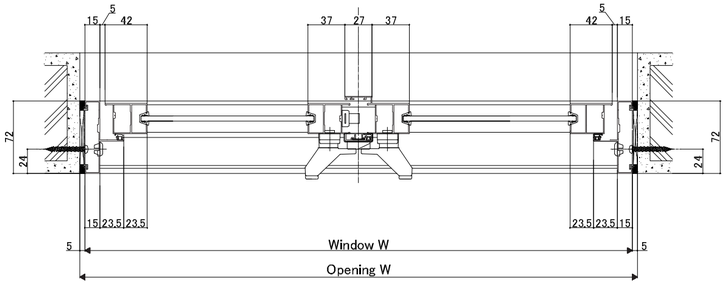

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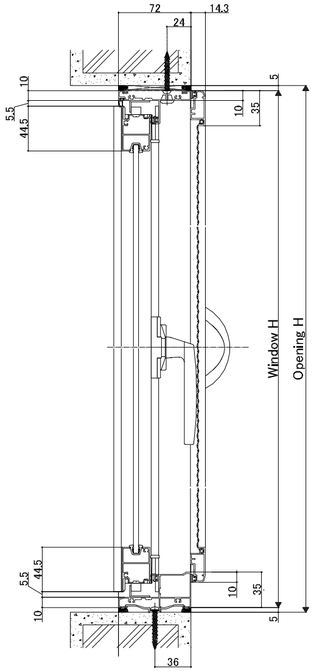

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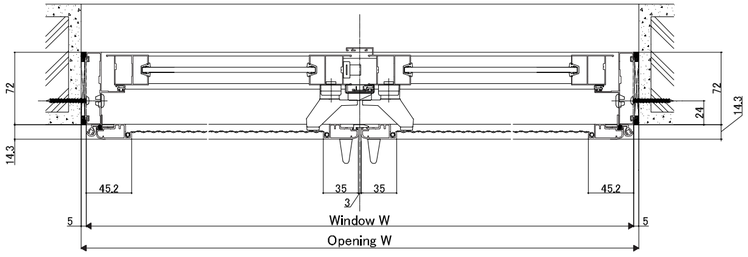

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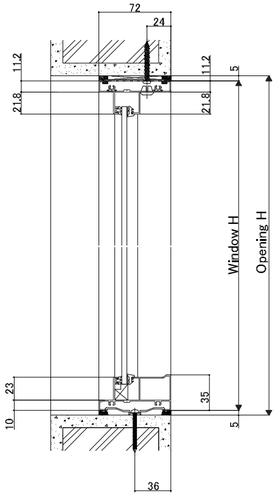
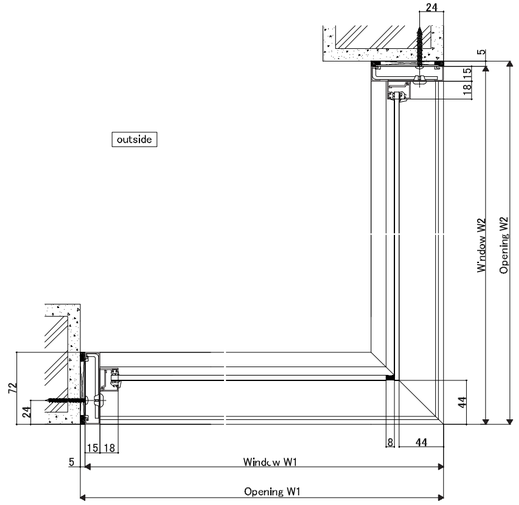


<Vertical section: Single and corner fixed window>



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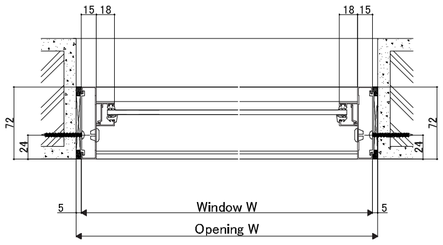

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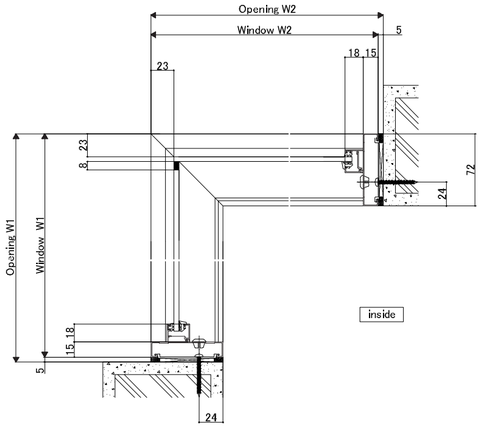

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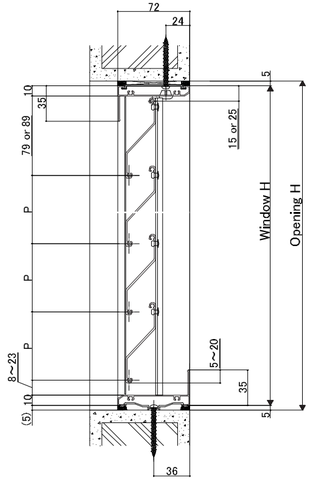
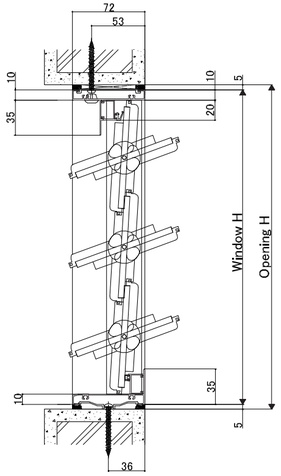


<Vertical section: Aluminum louver>



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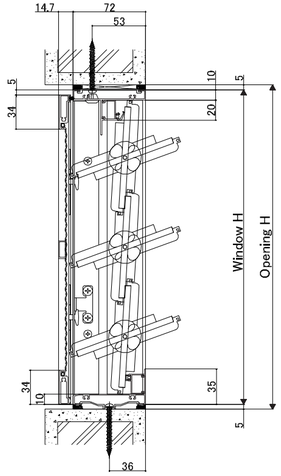
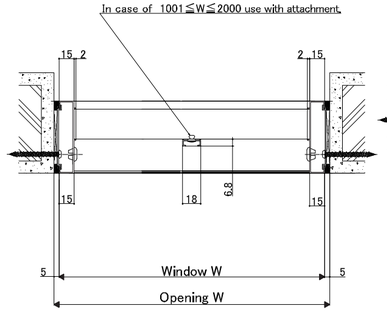


<Vertical section: Glass louver>
(with screen)



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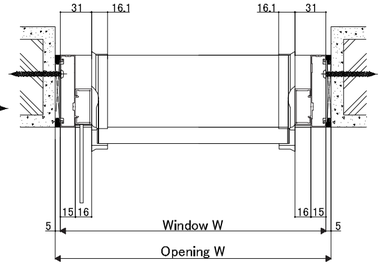

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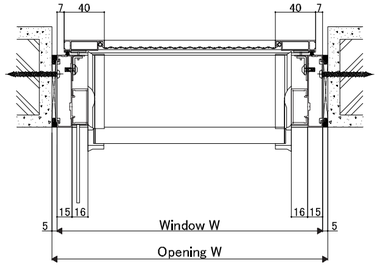

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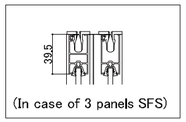
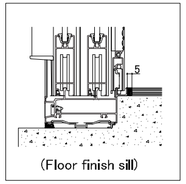
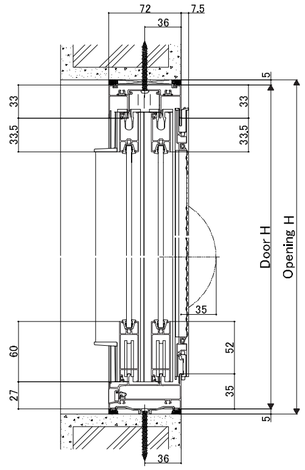
(with screen)

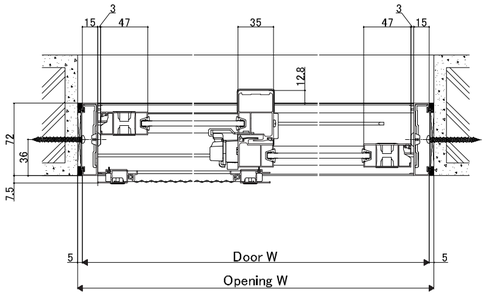
WE 70 DOOR SERIES



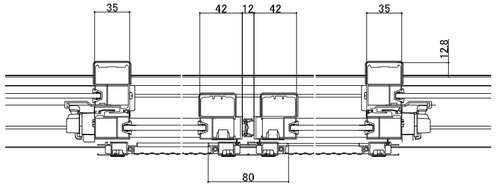




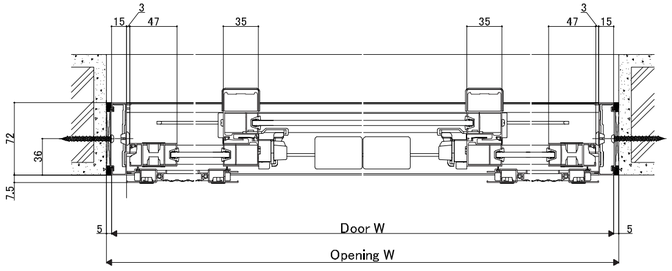
<Vertical section: 2, 4 and SFS 3 panels sliding door>



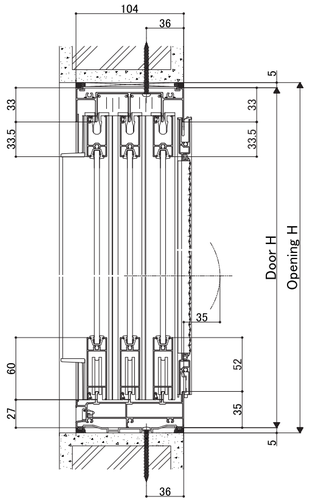
<Horizontal section: 2 panels sliding door>

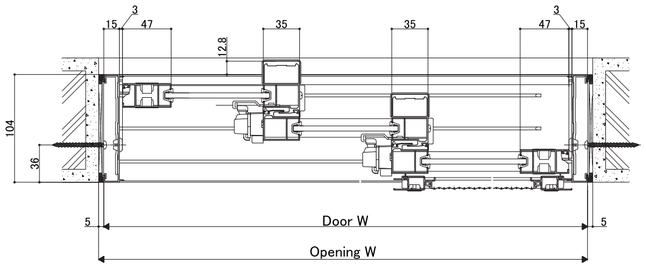


<Horizontal section: 4 panels sliding door>

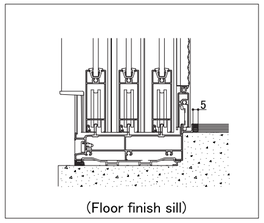


<Horizontal section: SFS 3 panels sliding door>

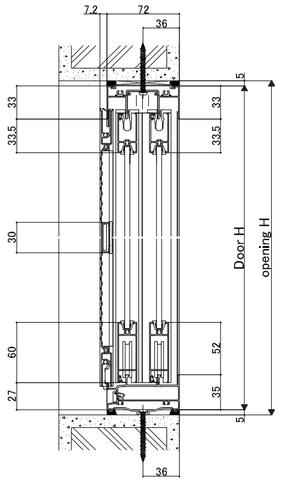




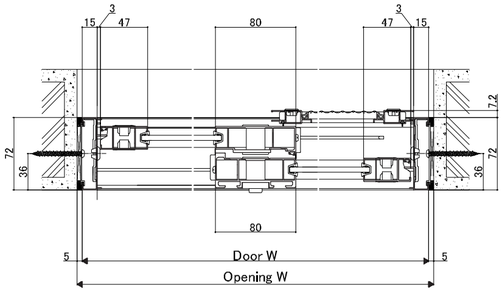
<Horizontal section: 3 panels sliding door>



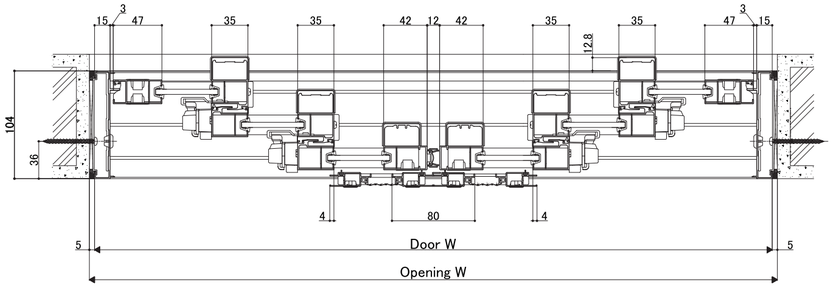
<Vertical section: 3, 6 panels sliding door>



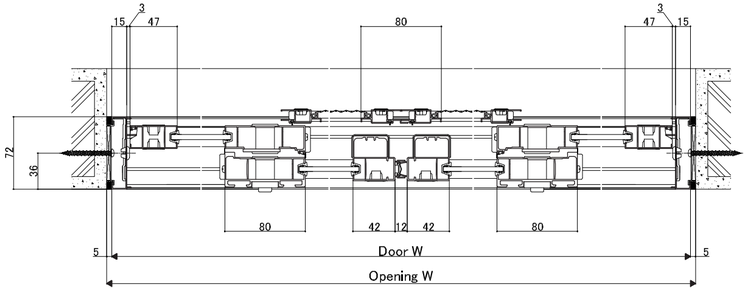
<Vertical section: 2 and 4 panels sliding door>



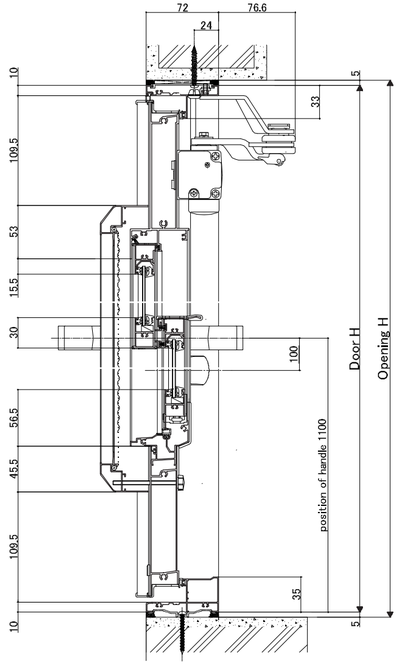
<Horizontal section: 2 panels panel sliding door>



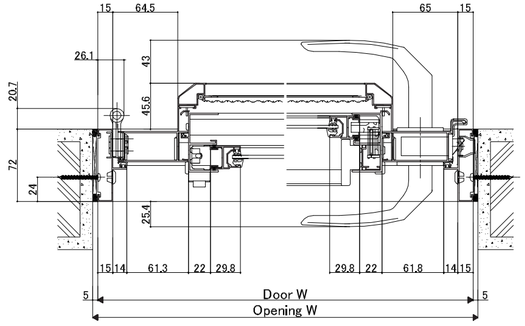
<Horizontal section: 6 panels sliding door>



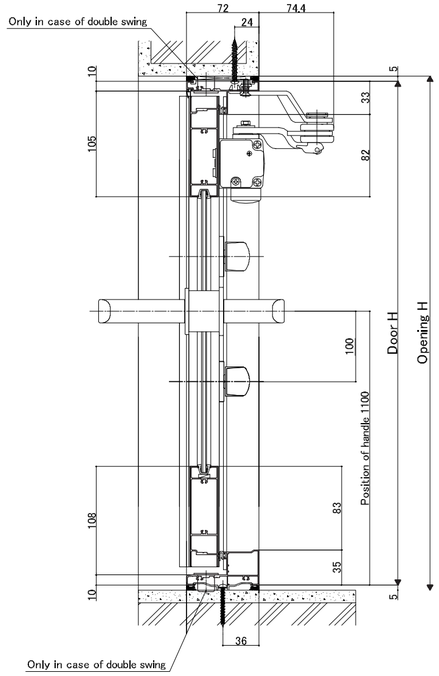
<Horizontal section: 4 panels sliding door>



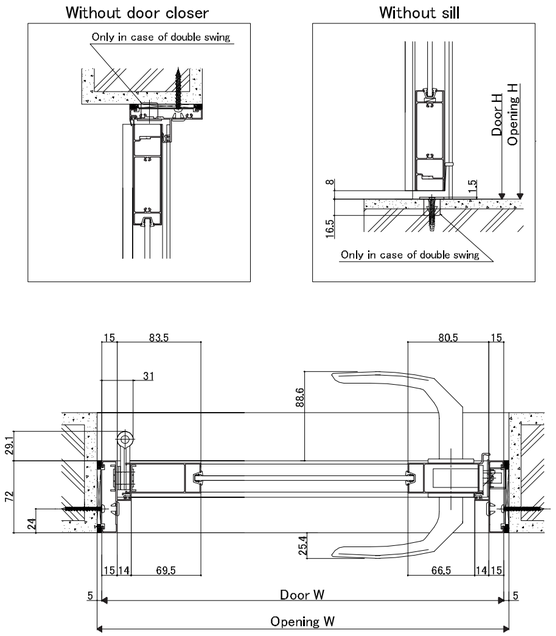
<Vertical section: Ventilation Door>



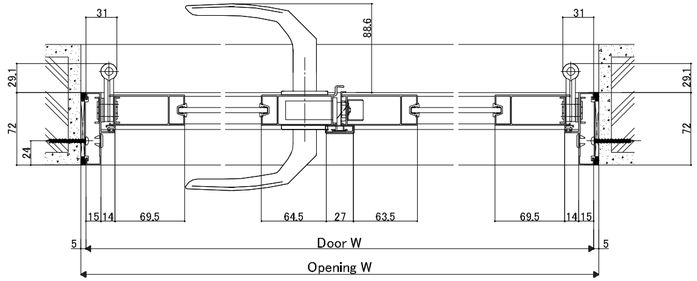
<Horizontal section: Ventilation Door>



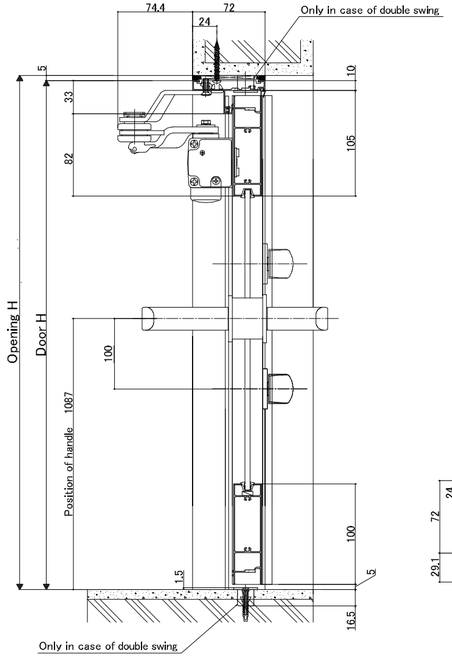
<Vertical section: Single & double out-swing door with sill>



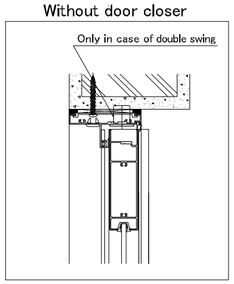
<Horizontal section: Single out-swing door>

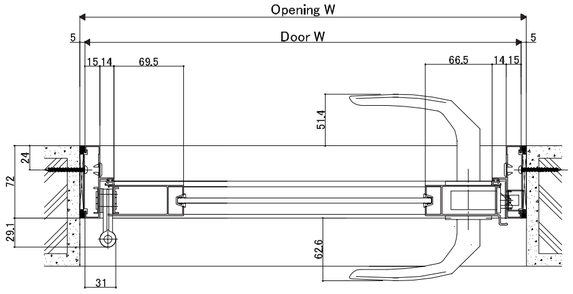


<Horizontal section: Double out-swing door>

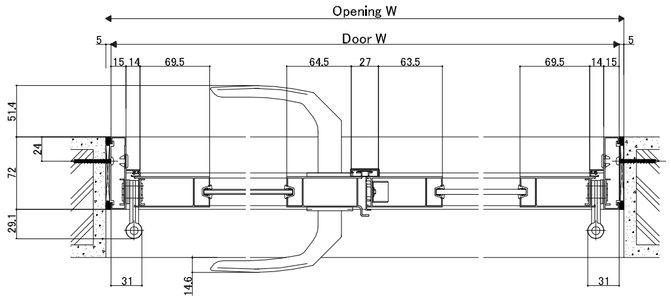


<Vertical section: Single & double in-swing door>

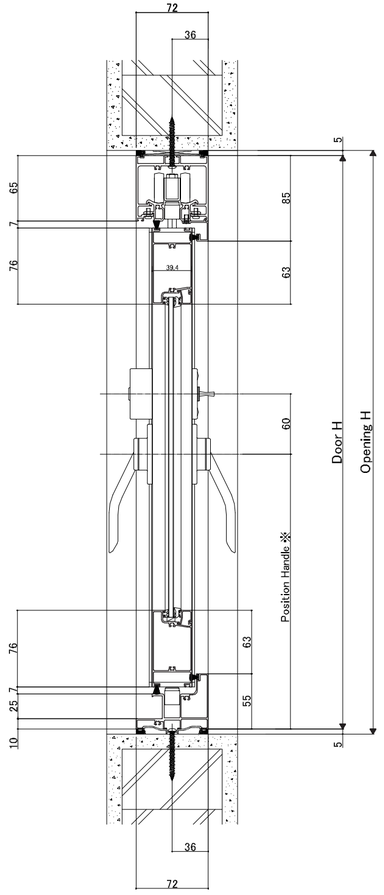




<Horizontal section: Single in-swing door>

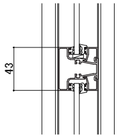


<Horizontal section: Double in-swing door>

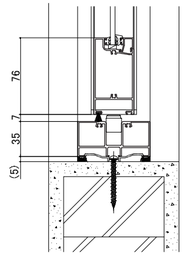


<Vertical section: Folding Door>

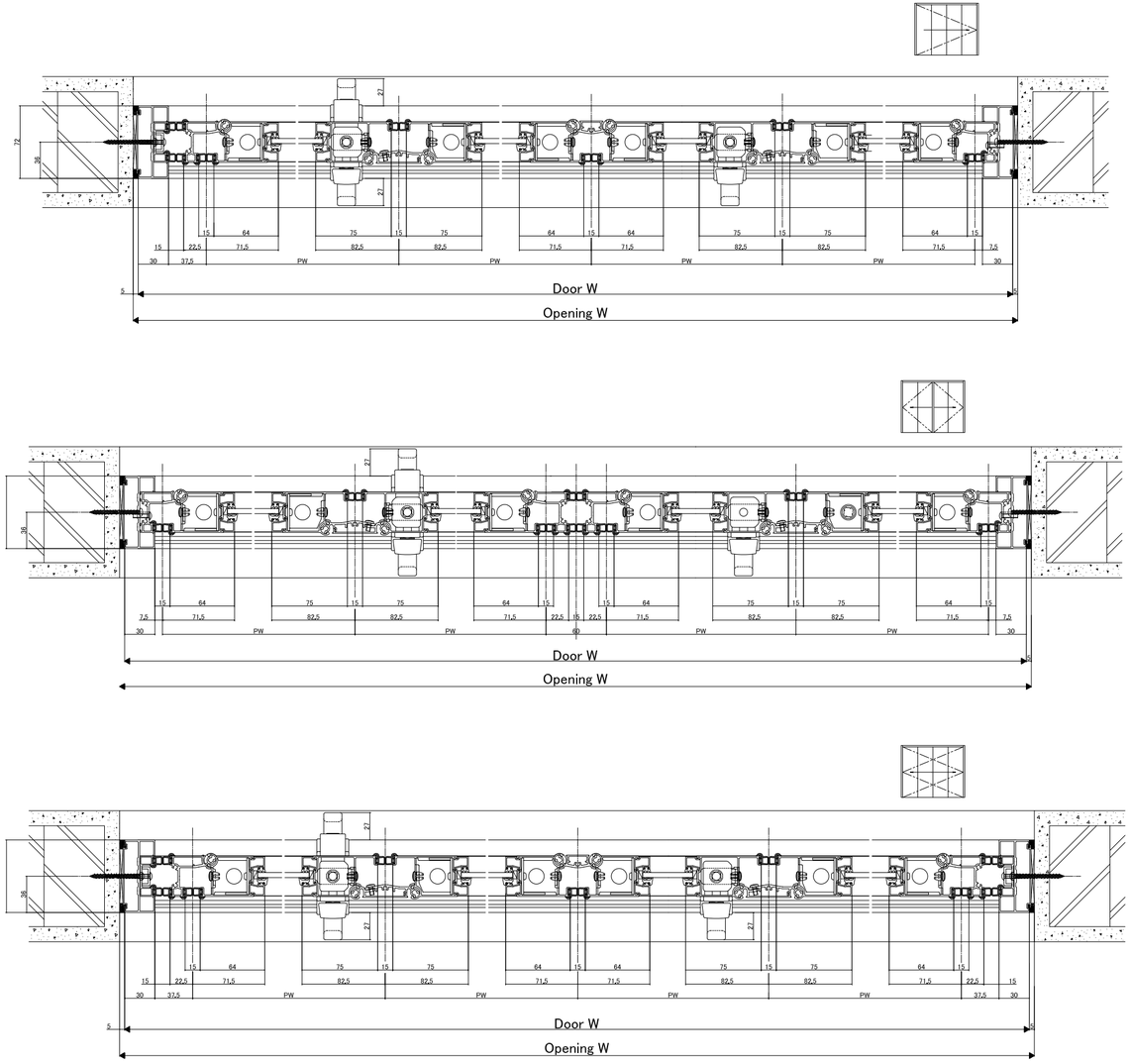
	※ Handle Position
H＞1600	1100
H≦1600	H/2-15



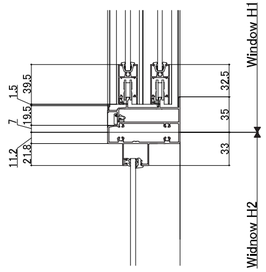
<Vertical section: With middle bar>



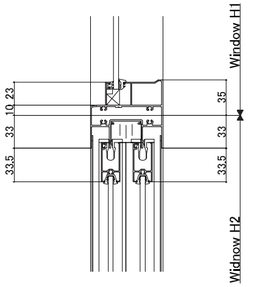
<Vertical section: Flat sill>



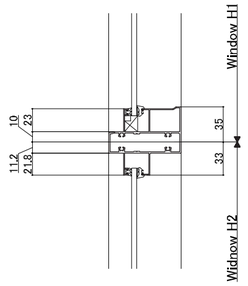
WE 70 COMBINATION



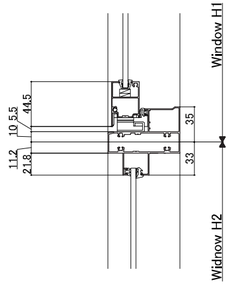
<Vertical section: Sliding/Fixed transom>



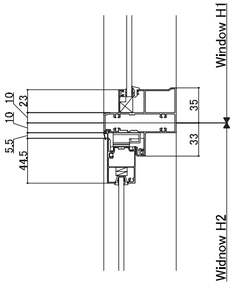
<Vertical section: Fixed/Sliding transom>



<Vertical: Fixed/Fixed transom>



<Vertical: Projection/Fixed transom>



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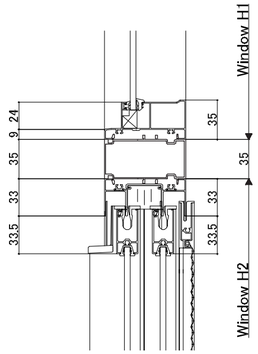
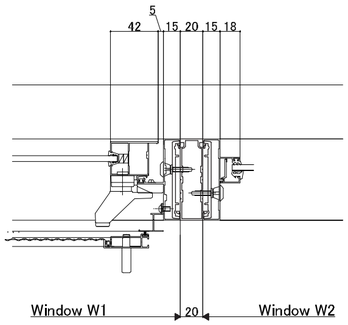


<Transom>



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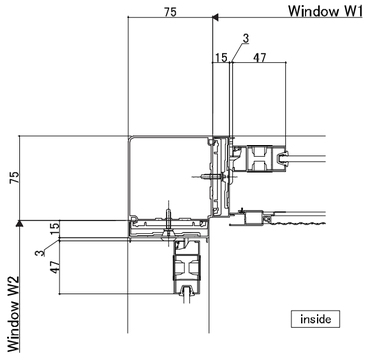
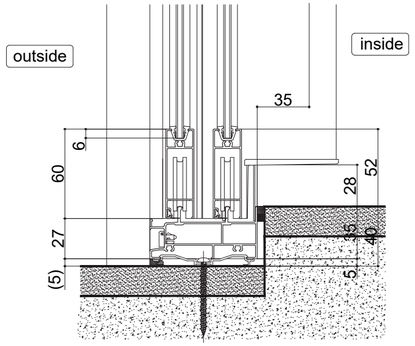
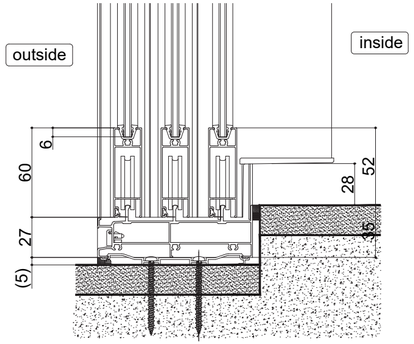


<Corner mullion>

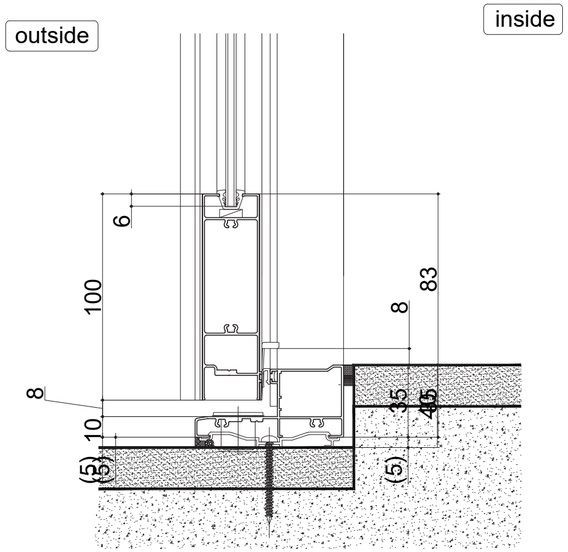
WE 70 DROP LEVEL



Drop level: 2 panels sliding door

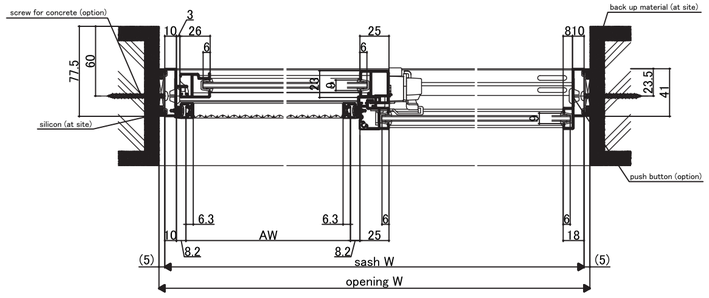


Drop level: 3 panels sliding door

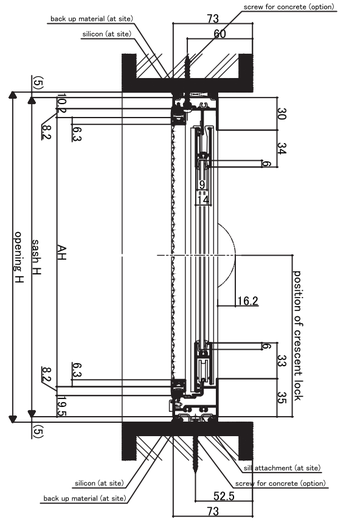


Drop level: entrance door

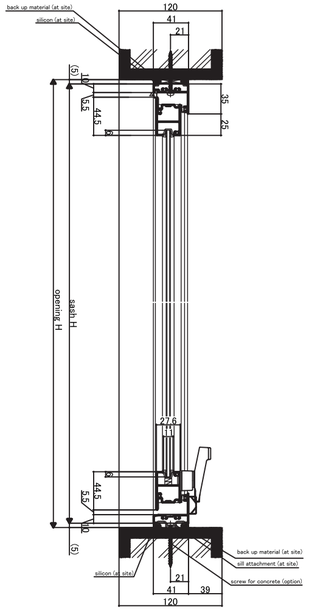
WE 40 SERIES



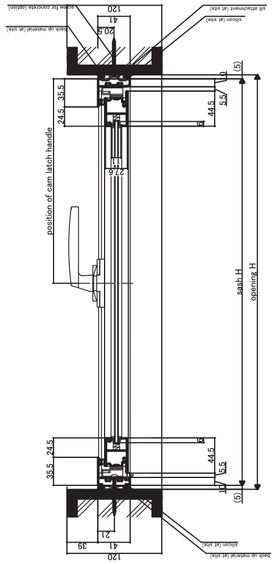
<Horizontal section: Single sliding window>



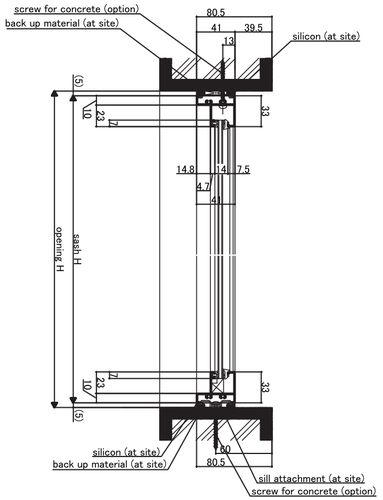
<Vertical section: Single sliding (screen side)>



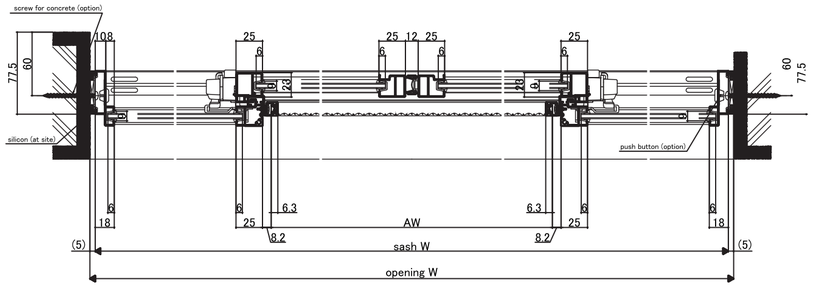
<Vertical section: Awning window>



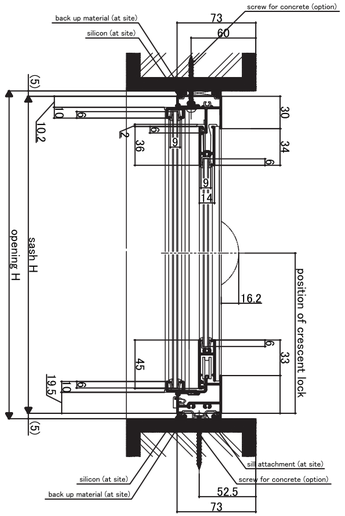
<Vertical section: Casement window>



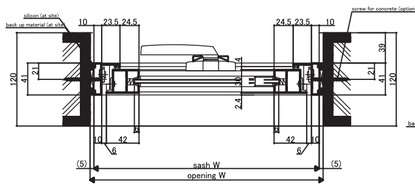
<Vertical section: Fixed window>



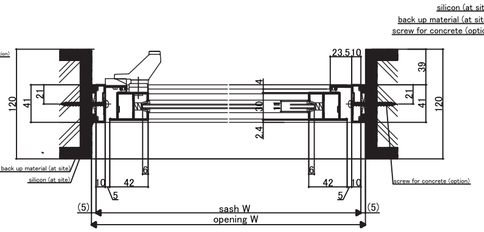
<Horizontal section: Center sliding window>



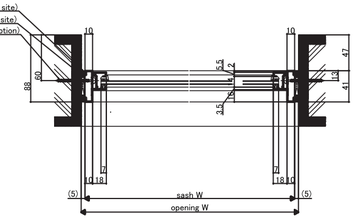
<Vertical section: Single sliding window (panel side)>



<Horizontal section: Awning window>

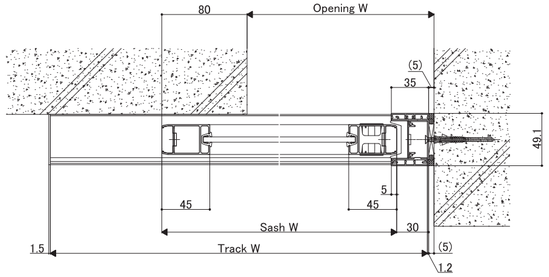


<Horizontal section: Casement window>

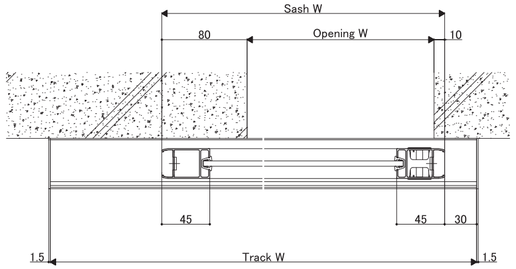


<Horizontal section: Fixed window>

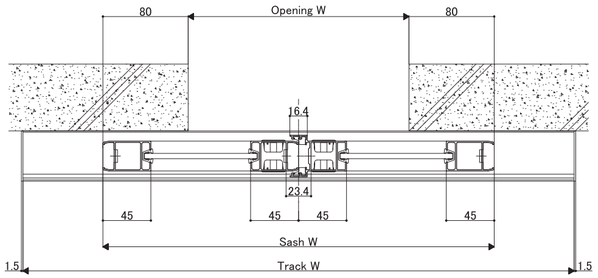
INTERIOR SERIES



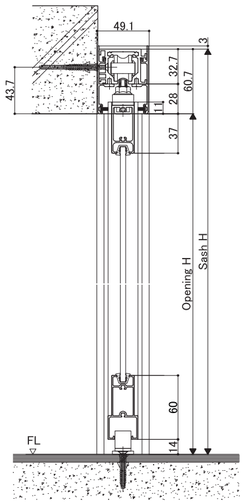
<Horizontal section: 1 panel on 1 track on-wall hanging door with jamb (R)>



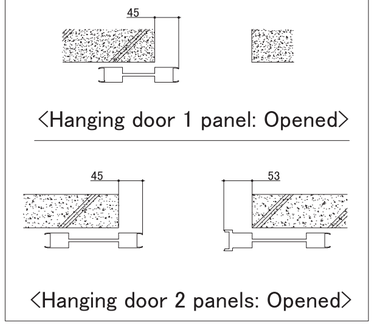
<Horizontal section: 1 panel on 1 track on-wall hanging door without jamb (R)>

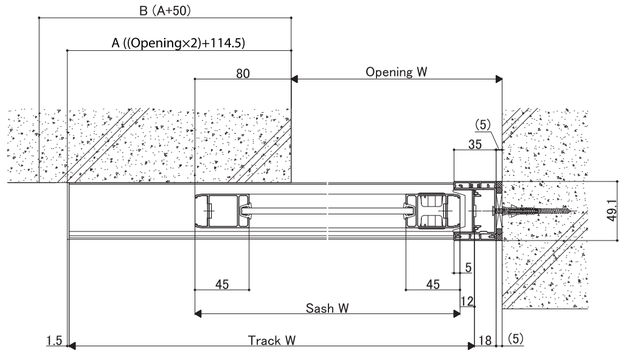


<Horizontal section: 2 panels on 1 track on-wall hanging door>



<Vertical section: 1 track on-wall hanging door >





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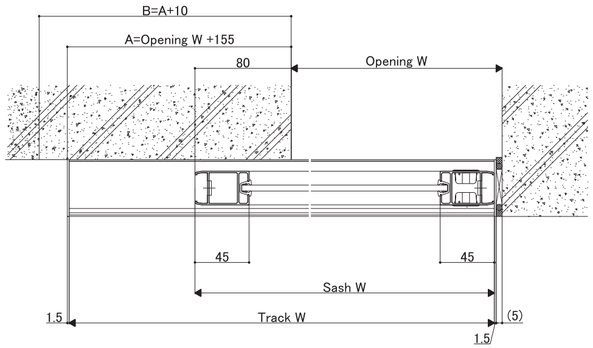
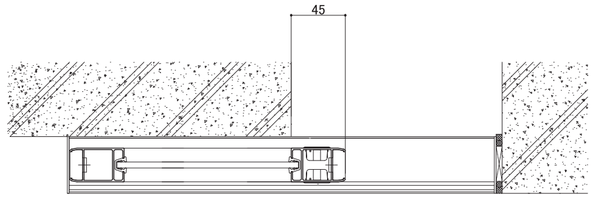
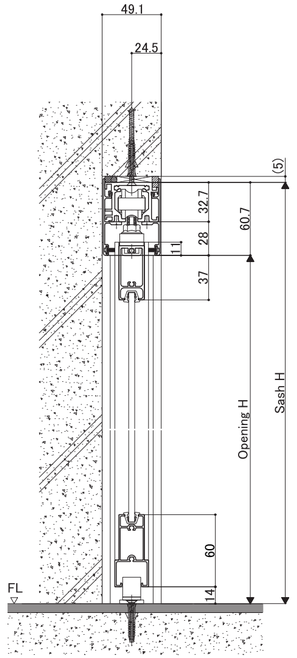


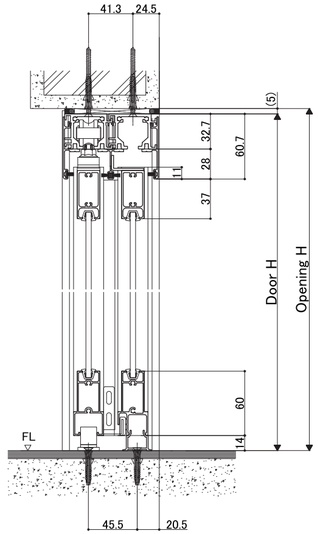
<Horizontal section: 1 panel on 1 track in-wall hanging door without jamb (R)>



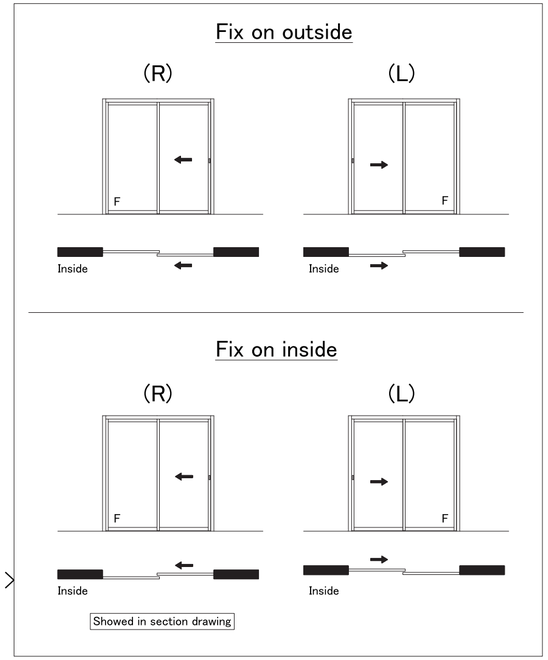
<Horizontal section: 1 panel on 1 track in-wall hanging door>
＊opened

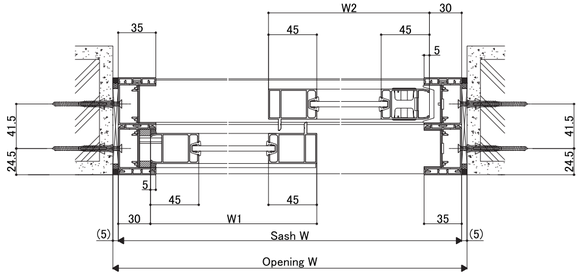


<Vertical section:
1 track in-wall hanging door >

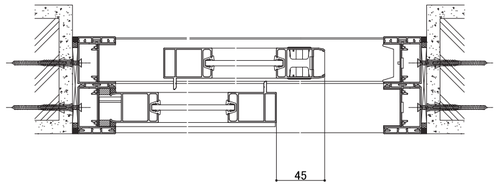


<Vertical section: 2 panels on 2 tracks in-wall hanging door >

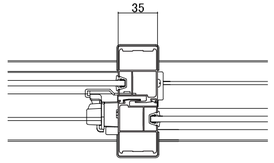




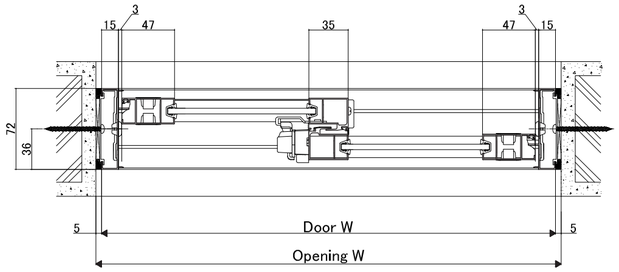
<Horizontal section: 2 panels on 2 tracks in-wall hanging door>



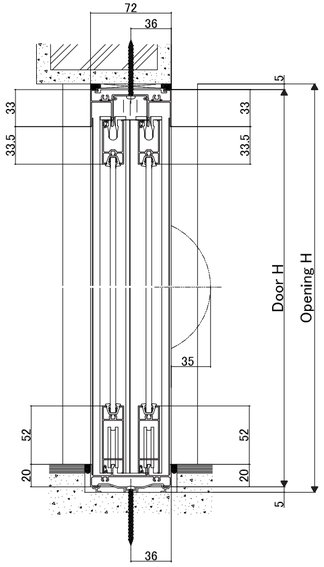
<Horizontal section: 2 panels on 2 tracks hanging door>
* opened



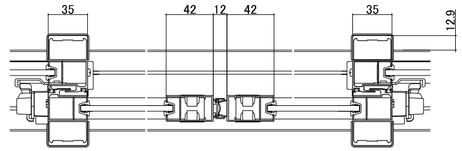
In case of Door H>2400mm



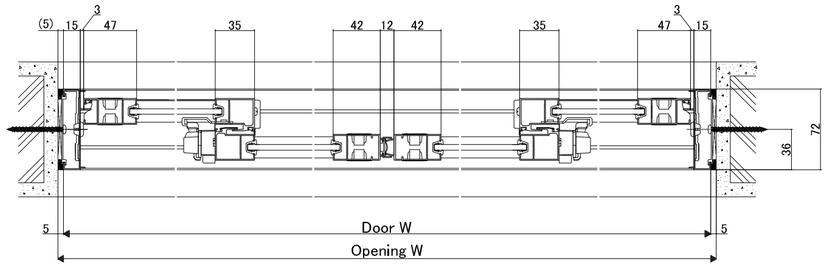
<Horizontal section: 2 panels partition door>



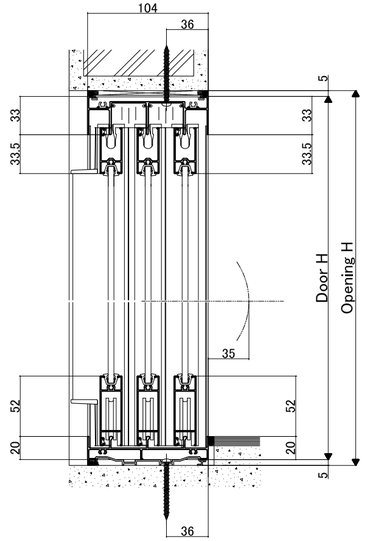
<Vertical section: 2 and 4 panels partition door>



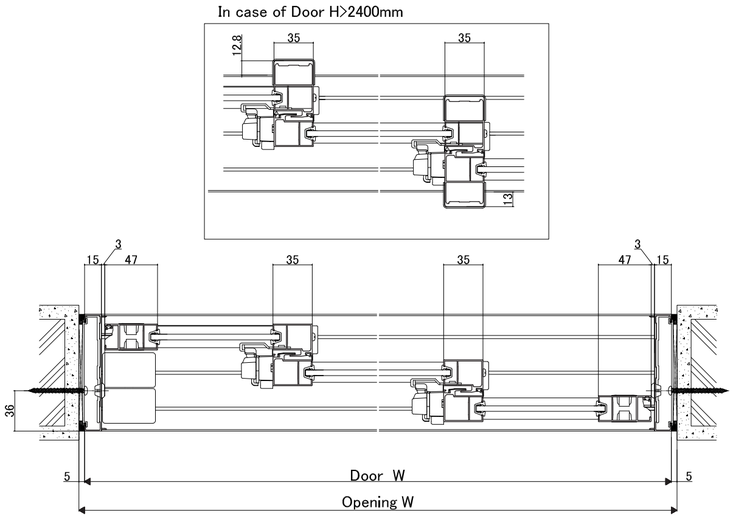
In case of Door H>2400mm



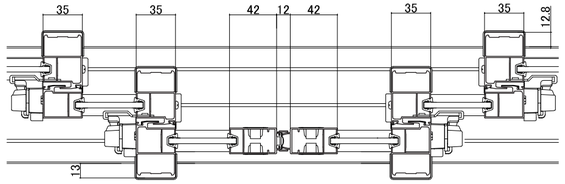
<Horizontal section: 4 panels partition door>

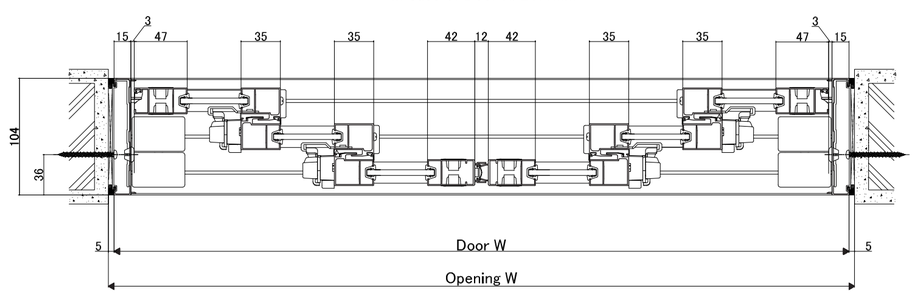


<Vertical section: 3 and 6 panels partition door>



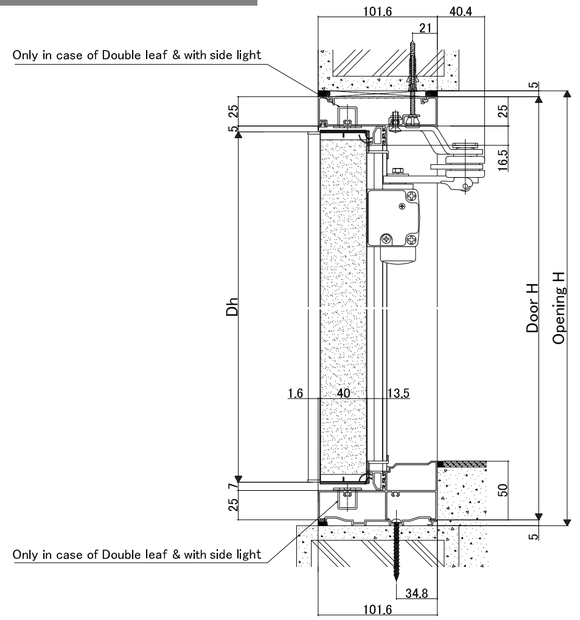
<Horizontal section: 3 panels partition door>



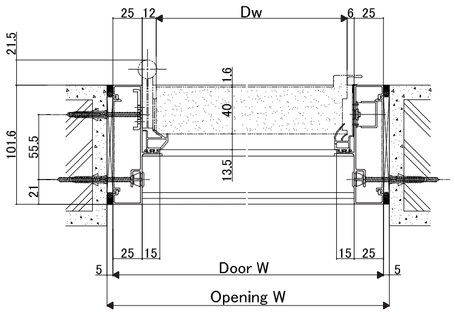


<Horizontal section: 6 panels partition door>

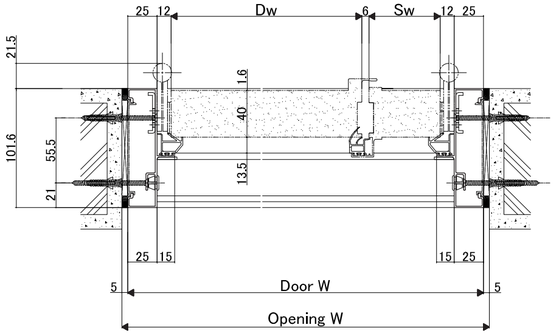
GIESTA OUT-SWING SERIES



<Vertical section: Single & double leaf with sill>

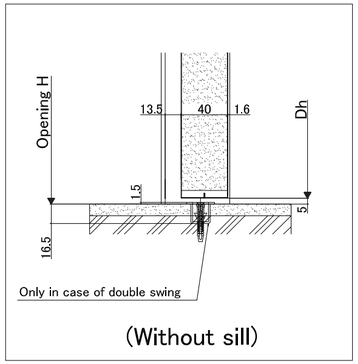


<Horizontal section: Single leaf>

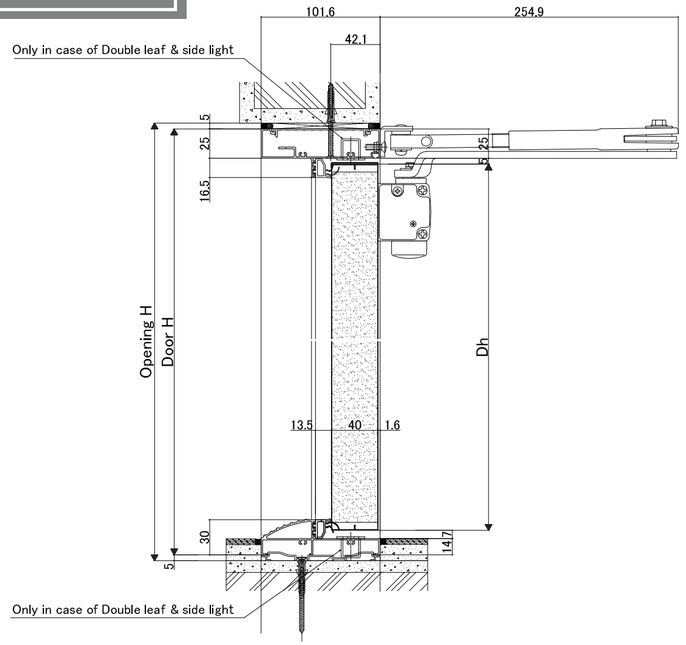


<Horizontal section: Double leaf or with side light>

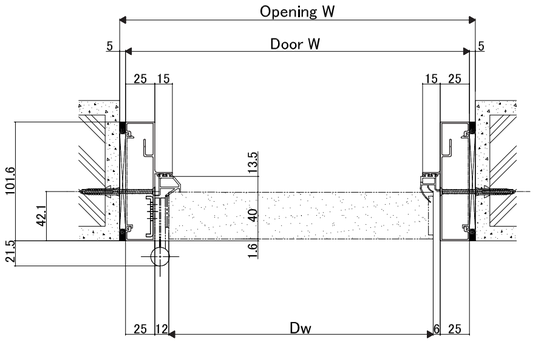
GIESTA IN-SWING SERIES



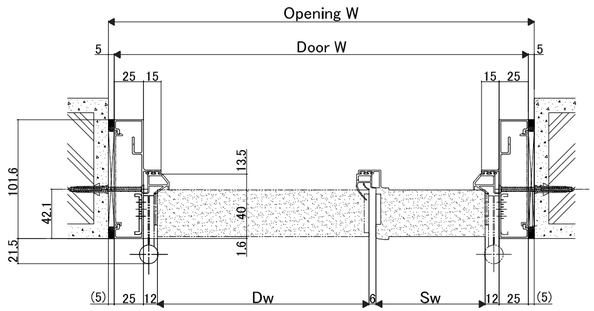
(Without sill)



<Vertical section: Single & double leaf>

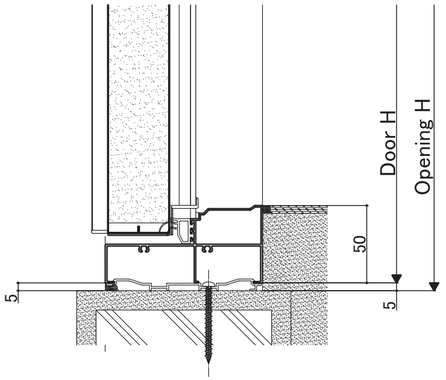


<Horizontal section: Single leaf>

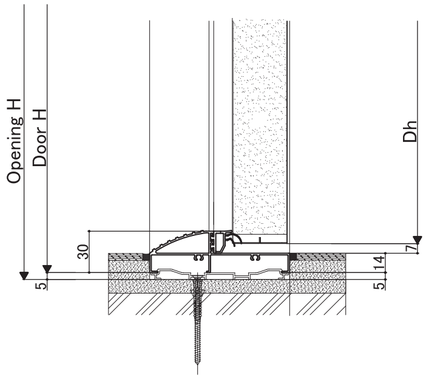


<Horizontal section: Double leaf or with sidelight>

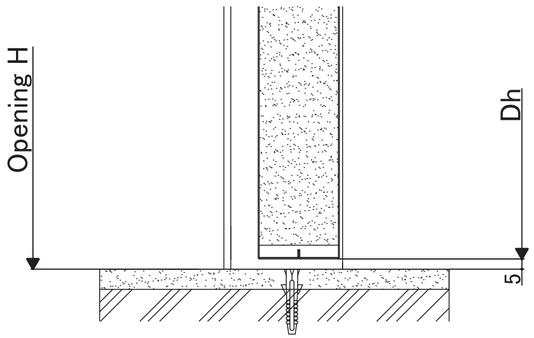
GIESTA DROP LEVEL



Drop level: out-swing



Drop level: in-swing with sill



Drop level: in-swing without sill

PROJECT REFERENCES

OFFICE & FACTORY PROJECTS

Asahimas Glass Company Office & Factory
Bangun Tjipta Office
Central Motor Wheel Jakarta
Djarum Office Temanggung
Ecovention Building Ancol
Fanuc Factory & Office
First Indo Finance Office
Fujiloy Factory Goyo
Fujiseat Indonesia Factory
GTN Data Center
Hitachi Transport System
Honda Lock Indonesia
Indonesia Stanley Electric Factory
JORR Operational Office
Krakatau Nippon Steel Sukimin Factory
Mandom Factory & Extension
Mandom Mid Paletizer
Mitsubishi Metal Facrication
NTT Data Center
Pemi Manufacturing
Polytron Office Jember
Polytron Office Klaten
Shinto Paint Factory
SMC Factory & Office
Space Indonesia
Sugindo Factory
Toray Factory
Tung Pei Indonesia Factory & Dormitory
Yamaha Product Music Asia & Service Center

COMMERCIAL & MIXED-USE PROJECTS

Anantara Ubud Bali
Aston Ciloto Puncak Hotel
Bandung International Convention Center
Café Kemang
Citihub Hotel Malang
Golden Tulip Hotel Pontianak
Graha Wangsa Lampung
Fieris Hotel Jakarta
Kota Lama Hotel Semarang
Mercure Himana Bali
Pullman Hotel & Resort Vimala Hills
Royal Avila Lombok
Seres Hotel Bali
Sheraton Hotel Belitung
Sudamala Resort Labuan Bajo
Taman Sari Gangga Hotel Bali
Taman Sari Jivva Hotel Bali
Toyota Showroom Sukabumi

EDUCATIONAL BUILDING PROJECTS

East Jakarta Japanese School
Jakarta Japanese School

RESIDENTIAL PROJECTS

Atlanta - PIK 2
Coasta Villa
Discovery Divine - Bintaro Jaya
Four Seasons Residence
Graha Family Surabaya
Jaya Ancol Seafront Townhouse
Kebayoran Harmoni - Bintaro Jaya
Orange County
Pakubuwono Spring Apartment
Podomoro City Deli Medan
Puri Botanical
Southgate Residence
Summarecon Midtown Signature
Thamrin Nine Midrise



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