

TOSTEM

PRODUCT BROCHURE
ENJOY THE WIND & LIGHT AND FEEL THE SKY

PRODUCT COLLECTION 2023



TOSTEM



YEARS OF WISDOM

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**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 TOSTEM, GROHE, American Standard, and INAX. 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.

12,000+

PATENTS/DESIGN
RIGHTS OWNED

FACTORIES

88 IN **12**

COUNTRIES

EMPLOYEES APPROX.

60,000

**\$260
MILLION**

R&D INVESTMENT

SHOWROOMS

130 IN **18**

COUNTRIES

PEOPLE USING OUR
PRODUCTS:

1 BILLION

TOSTEM

*American
Standard*

GROHE

INAX





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.





FRAMING THE BEAUTY OF LIVING

With the harmony of functional performance and aesthetic design, TOSTEM designs to let your own nature, experience the harmonious connection of outside and inside.





INTERIOR SERIES



WINDOWS AND DOORS

TOSTEM TOTAL HOUSING SOLUTION

TOSTEM engages in product development, manufacturing, and marketing of a diverse range of home products, such as window sashes, 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.

WINDOWS & DOORS

Let our aluminum windows and doors frame your world. Our windows and doors come in a variety of sturdy frames to offer you effortless maintenance, years of satisfied use and of course, a great view.

ENTRANCE DOOR

Stepping into your home should make you relieved, comfortable, and happy. GIESTA high quality wood-pattern or metallic finish door, 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.

EXTERIOR

FENCE & GATE is a perfect fencing choice for your residence. Our fence and gate solution will enhance the look, feel and overall value of your property, and provide you with the safety and security that your family needs.

COLOR PROCESSING

NATURAL WHITE

NATURAL SILVER

SHINE GRAY

AUTUMN BROWN

NATURAL BLACK

COLOR PROCESSING

Maximizing the strength and beauty of Aluminum

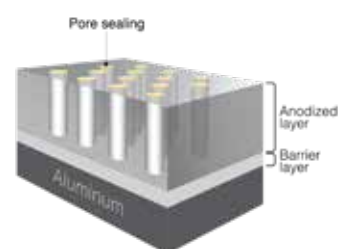
TOSTEM's unique TEXGUARD anodized finish gives a high level of protection, alongside showing the beautiful appearance of natural Aluminum. TOSTEM offers a wide range of color variations, which allows you to enjoy its lifelong beauty, adding happiness to your lifestyle.

Benefit of TEXGUARD

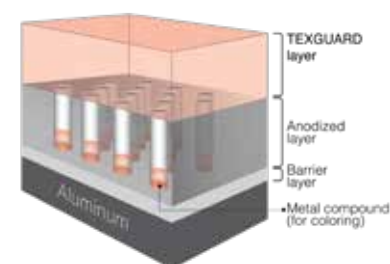
- Color retention - TEXGUARD protect the Aluminum against harsh environmental conditions, making the color gloss stay for at least 40 years.
- Increased hardness - Dense coating of TEXGUARD improve hardness and provides scratch resistance for the Aluminum surface.
- Ease of cleaning - Dust and dirt accumulation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

CERTIFICATION

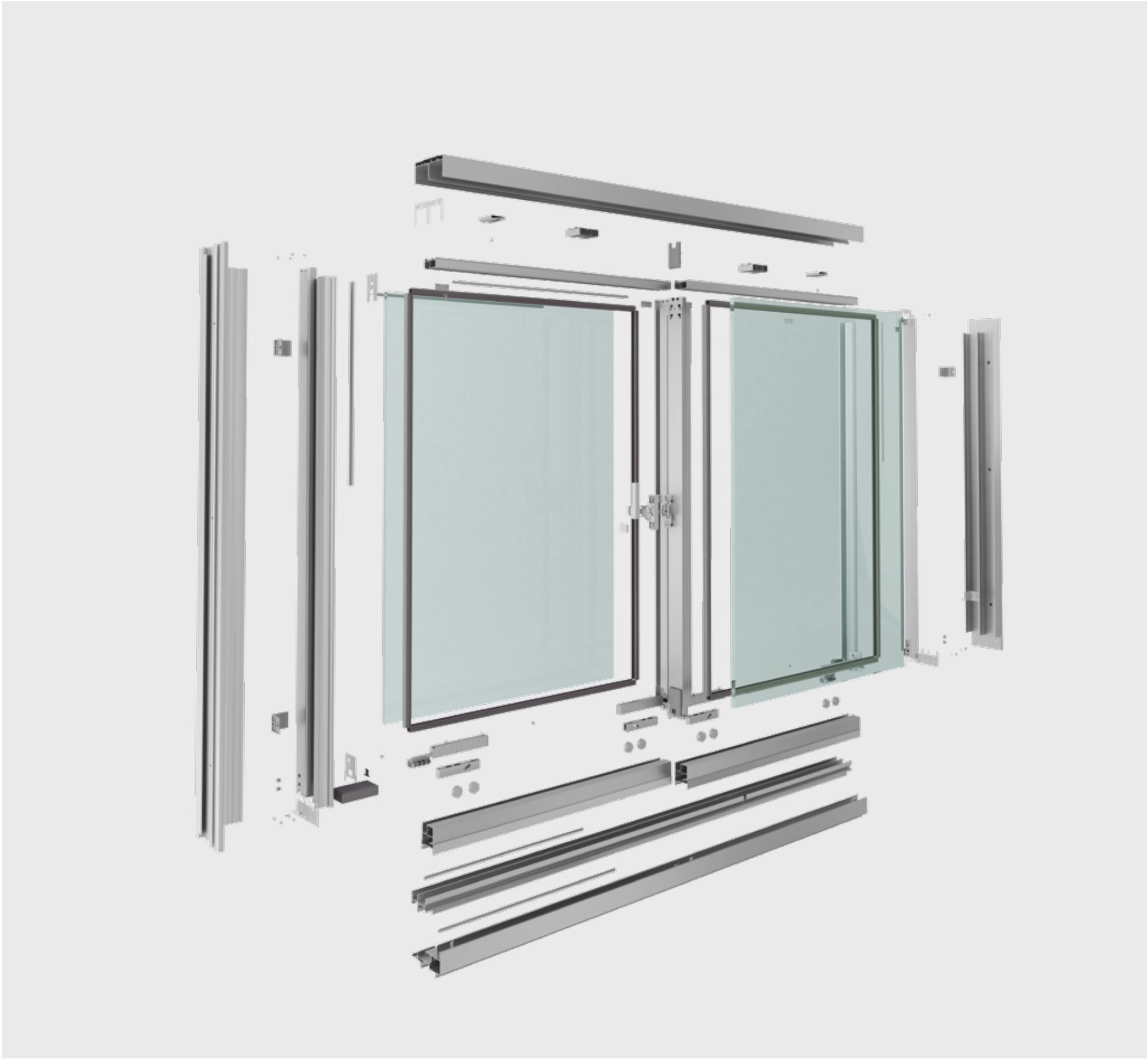
JIS H 8602: 2010, JIS H 4100: 2015, TIS 218-2520 (1977), TIS 284-2560 (2017), AAMA 612, ISO 9001: 2015, ISO 14001: 2015, ISO 17025: 2018



CONVENTIONAL ANODIZE



TOSTEM TEXGUARD ANODIZE





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, aluminum 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 screwdriver, anyone can again and again consistently build the same high-quality window system.





reddot winner 2022



GOOD DESIGN AWARD 2021

BEST 100



L-FIT DESIGN

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





QUALITY ASSURANCE

Quality and standard are the core of TOSTEM product. Japan is well-known for their rigorous standard control by Quality Assurance and Quality Control systems to ensure that the product meets international industrial standard: Japanese Industrial Standard (JIS) and ASTM International.



- ☒ WATER PENETRATION TESTING
- ☒ SOUND INSULATION TESTING
- ☒ AIR LEAKAGE TESTING
- ☒ STRUCTURAL PERFORMANCE TESTING
- ☒ DURABILITY TESTING
- ☒ ENVIRONMENTAL TESTING
- ☒ LIGHT IRRADIATION TESTING
- ☒ SUNSHINE WEATHER TESTING



TOSTEM AIRFLOW SYSTEM

TOSTEM AIRFLOW System includes GIESTA AIRFLOW : steel wooden pattern door with integrated ventilation, AIRFLOW Door: ventilation door with sliding window for multiple ventilation levels and AIRFLOW SLOT: slot for ventilation with flap in top-notch design compatible with various TOSTEM window designs seamlessly.

3

1

GIESTA
AIRFLOW



CLOSE



OPEN

2

AIRFLOW SLOT
(available for WE 70)



CLOSE



OPEN

3

AIRFLOW
DOOR



CLOSE



OPEN

GIESTA AIRFLOW

A PERFECT SOLUTION FOR YOUR OWN COMFORT WITH MINIMAL DESIGN

High performance wooden pattern steel door Giesta AIRFLOW series with integrated AIRFLOW window and insect screen is perfect that combination keeps design and housing comfort at heart. Giesta AIRFLOW allows air inside your house to circulate in and out all day to cool the living space, reduce humidity, remove unpleasant odor for serene ambience.

Invented to truly create soothing ambience and adding comfort to your home. Let the wind flow into the living space by opening ventilation panel without worrying as the AIRFLOW panel is wide enough to let the air flow in easily and too small to be entered from. Raising security to another level with multi-lock function to lock and unlock by single lock at handle but securely lock 2 positions. Giesta AIRFLOW is Japanese Industrial Standards (JIS) certified and guaranteed with Japan's KIDS Design Award for its user-friendly and child safety design.

Provide passive ventilation environment



Complete air flow with security



Keep mosquito and pest away from your home



SIMPLE OPEN/ CLOSE OPERATION

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



Lift lock handle to unlock



Pull down lock handle for ventilation

EASY TO CLEAN

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



TOSTEM
WINDOW AND
DOOR SERIES

		FRAME DEPTH, HEIGHT OF SILL
GRANTS SERIES		GRANTS Frame depth : 101.6 / 120 / 178 mm Height of sill : 50 mm
ATIS SERIES		ATIS PLUS Frame depth : 88 / 131.5 mm Height of sill : 55 mm
		ATIS Frame depth : 88 / 131.5 mm Height of sill : 55 mm
WE SERIES		WE PLUS Frame depth : 72 / 104 mm Height of sill : 35 mm / 50 mm
		WE 70 Frame depth : 72 / 104 mm Height of sill : 35 mm
		WE 40 Frame depth : 41 mm Height of sill : 35 mm

DESIGN	PERFORMANCE	GLASS APPLICATION
TRADITIONAL MINIMAL	LOW-RISE HIGH-RISE	5 MM (SG) ~15MM (LG) ~32MM (IGU)
TRADITIONAL MINIMAL	LOW-RISE HIGH-RISE	5 MM (SG) ~15MM (LG) ~32MM (IGU)
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GRANTS SERIES

GRANTS SERIES

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

SPECIFICATIONS

Frame Depth	101.6 mm 120 mm (2 tracks sliding) 178 mm (3 tracks sliding)
Height of Sill	50 mm
Glass Thickness	Up to 31.5 mm

COLOR



NATURAL
WHITE



NATURAL
SILVER



SHINE
GRAY



AUTUMN
BROWN



NATURAL
BLACK

PERFORMANCES

WIND
PRESSURE



2000 PA
(ASTM E330)

WATER
TIGHTNESS



300 PA
(ASTM E331)

AIR
TIGHTNESS



10.7m³ / h·m²
(ASTM E283)

NOISE
INSULATION*

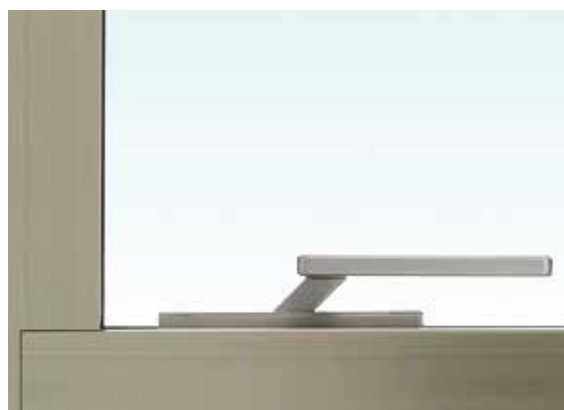


T-1 (25)
(JIS A 1416)

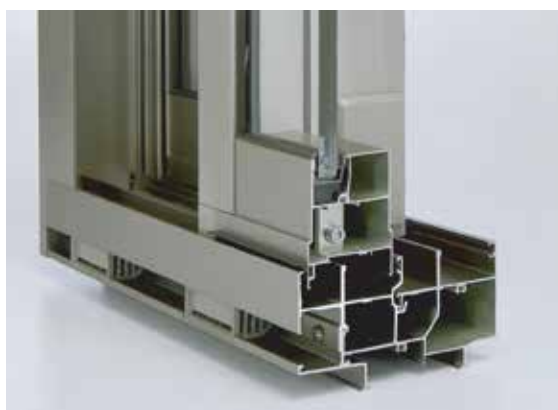
* Sound performance test has been done in JIS standard controlled environment.
Performance will vary by room condition. Please consult with sound insulation specialist.

UNIQUE FEATURES

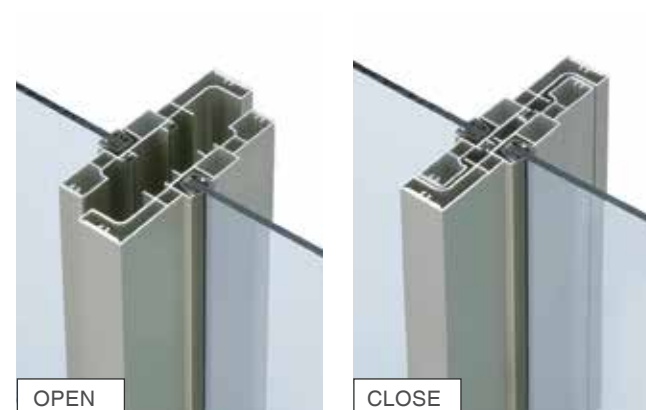
Streamline design (Concealed panel)



Double barrier drainage system



Overlapping meeting stile (4 Panels sliding)

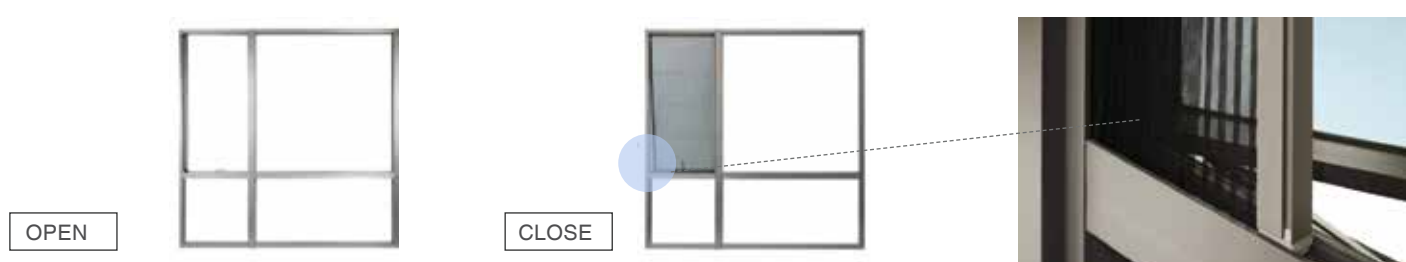


L-FIT DESIGN HANDLES



GRANTS SCREEN SYSTEM

FOR AWNING AND
CASEMENT WINDOWS



- Fully embedded in the frame.

- Easy to remove for maintenance.

GRANTS

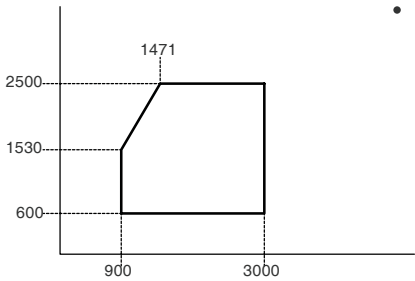
- WINDOW
- DOOR
- OPTION
- MIX

- Available in SG and IG unit

SLIDING WINDOW (2 PANELS ON 2 TRACKS)



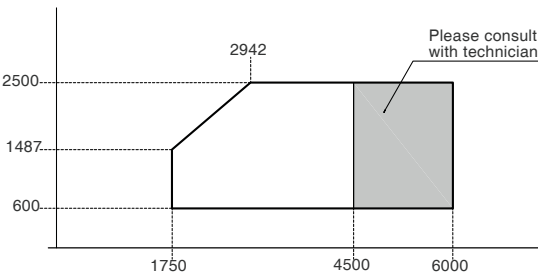
- Handle option
- Select panel position from L/R
- Single slide (L/R) available
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



SLIDING WINDOW (4 PANELS ON 2 TRACKS)



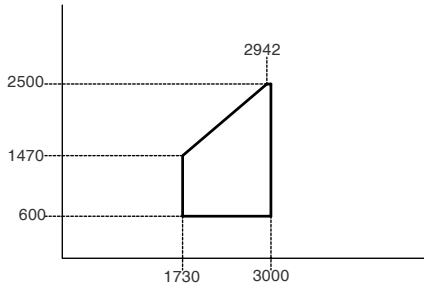
- Handle option
- Select from (SSSS, FSSF)
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



SLIDING WINDOW (3 PANELS ON 2 TRACKS) SFS



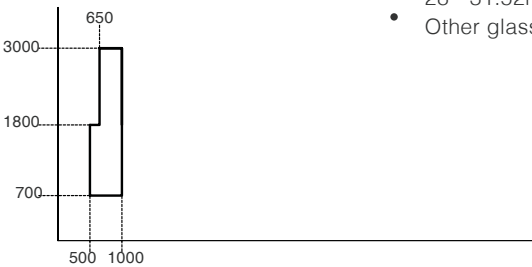
- Handle option
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



AWNING WINDOW



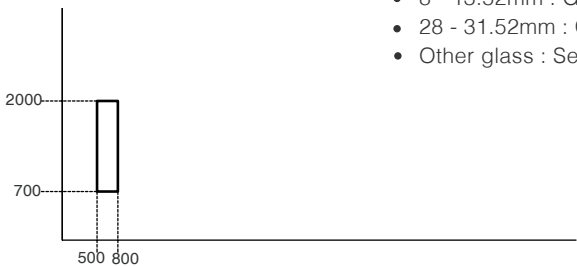
- In case of IG, please consult with our technician for size and performance
- Pleated insect screen available
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - 28 - 31.52mm : Glazing channel
 - Other glass : Sealant



CASEMENT WINDOW (WITH FRICTION STAY)



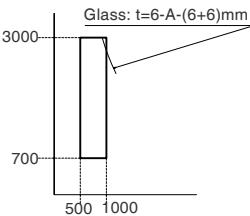
- In case of glass thickness over 8 mm and IG unit please consult with our technician
- Select from L/R
- Pleated insect screen available
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - 28 - 31.52mm : Glazing channel
 - Other glass : Sealant



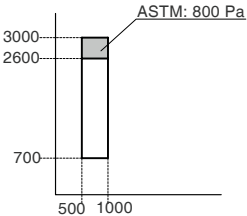
CASEMENT WINDOW (WITH HINGE OR PIVOT)



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



<Hinge type>

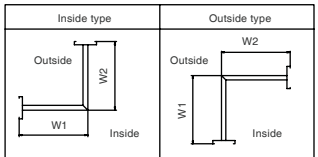
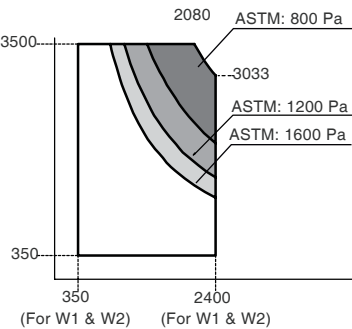


<Pivot type>

CORNER FIXED WINDOW



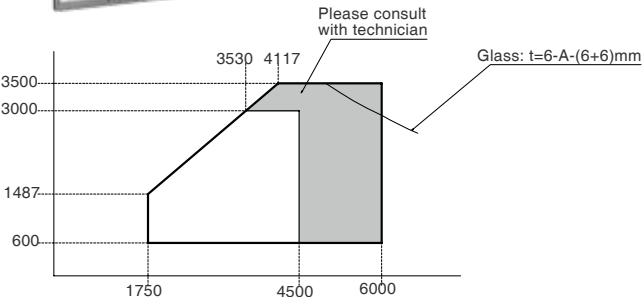
- Only available in SG
- Only available with sealant finish
- Both in/outward corner available



SLIDING DOOR (4 PANELS ON 2 TRACKS)



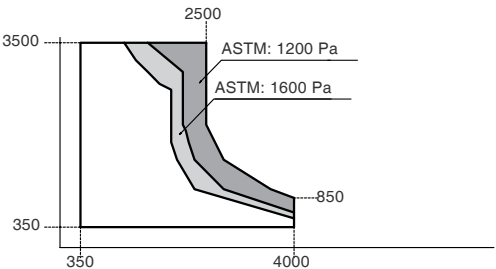
- Handle option
- Select from (SSSS, FSSF)
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



FIXED WINDOW



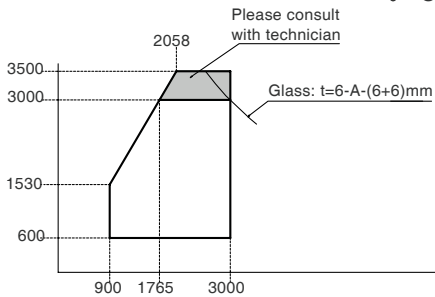
- For oversize fixed windows, please consult with our technician
- Glazing finish
 - 8 - 13.52mm : Glazing bead
 - 25 - 31.52mm : Glazing bead
 - Other glass : Sealant



SLIDING DOOR (2 PANELS ON 2 TRACKS)



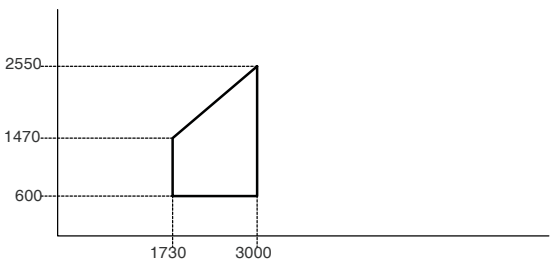
- Handle option
- Select panel position from L/R
- Single slide (L/R) available
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



SLIDING DOOR (3 PANELS ON 2 TRACKS) SFS



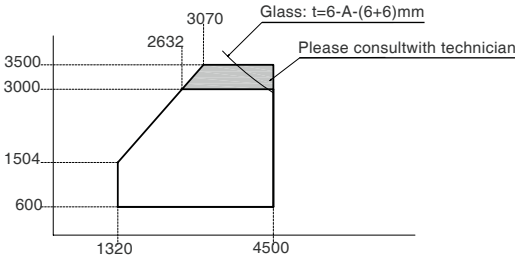
- Handle option
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



SLIDING DOOR (3 PANELS ON 3 TRACKS)



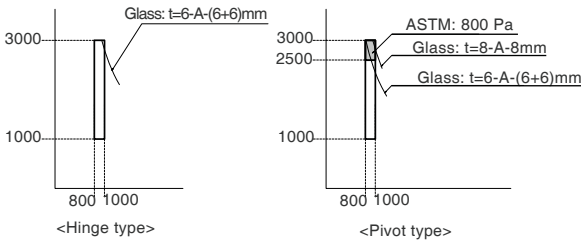
- Handle option
- Select panel position from L/R
- Select from (SSS, FSS, SSF)
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



OUT-SWING DOOR (SINGLE)



- Pivot hinge option
- Door closer NOT available
- Select from L/R
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - 28 - 31.52mm : Glazing channel
 - Other glass : Sealant



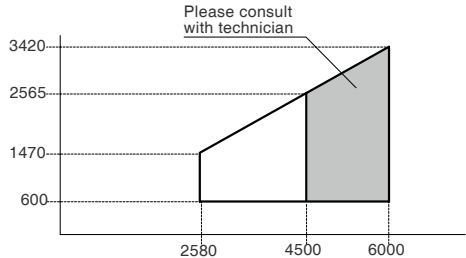
MIXED & COMBINATION WINDOW

- 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)

SLIDING DOOR (6 PANELS ON 3 TRACKS)



- Handle option
- Select from (SSSSSS, FSSSSF)
- Glazing finish
 - 8 - 13.52mm : Glazing channel
 - Other glass : Sealant



INSECT SCREEN



- This insect screen is for awning and casement window



UNIT WINDOWS

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







GRANTS PROJECT REFERENCE

PRIVATE HOUSE, KHON KAEN









ATIS SERIES

ATIS PLUS

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

SPECIFICATIONS

Frame Depth	88 mm 131.5 mm (3 tracks sliding)
Height of Sill	55 mm
Glass Thickness	5,6,8 - 15.52,22 mm (24, 26 mm for fixed window)

COLOR



NATURAL
WHITE



NATURAL
SILVER



SHINE
GRAY



AUTUMN
BROWN



NATURAL
BLACK

PERFORMANCES

WIND
PRESSURE



2000 PA
(ASTM E330)

WATER
TIGHTNESS



300 PA
(ASTM E331)

AIR
TIGHTNESS



10.7m³/h·m²
(ASTM E283)

NOISE
INSULATION*1



T-1 (25), T-2 (30)*2
(JIS A 1416)

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



SPECIFICATIONS

Frame Depth	88 mm 131.5 mm (3 tracks sliding)
Height of Sill	55 mm
Glass Thickness	5,6,8 - 15.52,22 mm (24, 26 mm for fixed window)

ATIS

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



COLOR



NATURAL
WHITE



NATURAL
SILVER



SHINE
GRAY



AUTUMN
BROWN



NATURAL
BLACK

PERFORMANCES

WIND
PRESSURE



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

WATER
TIGHTNESS



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

AIR
TIGHTNESS



A-4 (2)
(JIS A 1516)

NOISE
INSULATION*1



T-1 (25), T-2 (30)*2
(JIS A 1416)

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



ATIS UNIQUE FEATURES

STREAMLINED DESIGN

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

CONCEALED HARDWARE



SUB-LOCK



HINGES



BALANCER

*Only available for ATIS series

SLIM MULLION



40 MM MULLION

L-FIT DESIGN HANDLES



OPERATOR HANDLE

*Only available for ATIS series



CAM-LATCH HANDLE



LEVER HANDLE



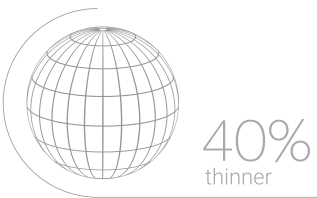
CRESCENT LOCK

SMART INSECT SCREEN



*Only available for ATIS series

INVISIBLE SCREEN



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



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



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

AWNING/CASEMENT WINDOW



L-FIT HANDLE



LIMIT ARM FOR SAFETY
(OPTION)



CASEMENT WINDOW
(WITH CAM-LATCH HANDLE)



CASEMENT WINDOW
(WITH OPERATOR HANDLE)



SMART INSECT SCREEN
SYSTEM



L-FIT DESIGN HANDLE

SLIT WINDOW WITH CHAIN OPERATOR



Specially designed for rooms where you want to keep outside eyes out but let the breeze in. You can open our slit windows without having to reach up to window height. We help you make the most out of every living area in your home.



TILT & SLIDE WINDOW

LOCK DEVICE



SAFETY STOPPER



CONCEALED POWER
SUPPORT SYSTEM



SLIDING INSECT SCREEN
(OUTSIDE)



CLOSED POSITION



TILTED POSITION



OPENED POSITION



SLIDING WINDOW / DOOR



ALUMINUM PROFILE HANDLE



LIMIT ARM (OPTION)



FLAT ATTACHMENT (OPTION)



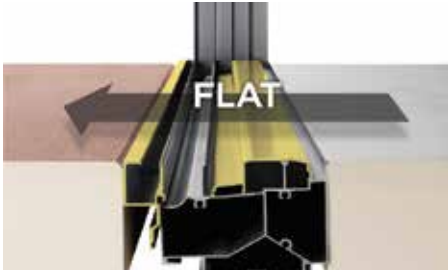
SAFE FOR EVERYONE



DETACHABLE



FOR OUTER RAIL
(OUTER PANEL FIXED)



FOR INNER RAIL
(INNER PANEL FIXED)

SWING DOOR



CONCEALED FRICTION ARM



CONCEALED HINGES



L-FIT DESIGN HANDLE AND LOCK SET

<CONVENTIONAL>



<ATIS>



DOUBLE SWING DOOR WITH MAXIMIZED GLASS AREA
(RECOMMENDED FOR LOW-RISE PROJECTS)

ATIS PLUS

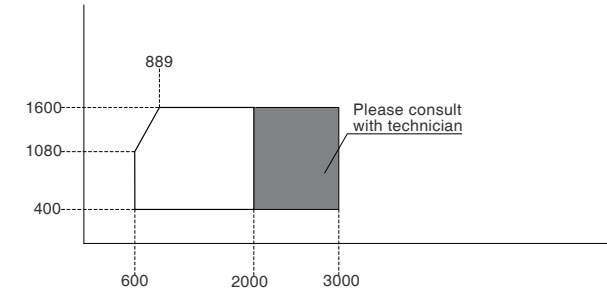
- WINDOW
- DOOR
- OPTION
- MIX

- Available in SG and IG unit

SLIDING WINDOW (2 PANELS ON 2 TRACKS)



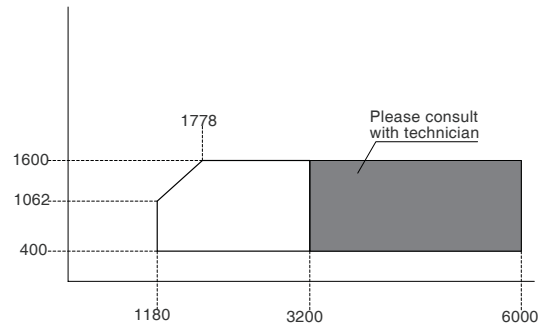
- In case of over 8mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Safety arm option



SLIDING WINDOW (4 PANELS ON 2 TRACKS)



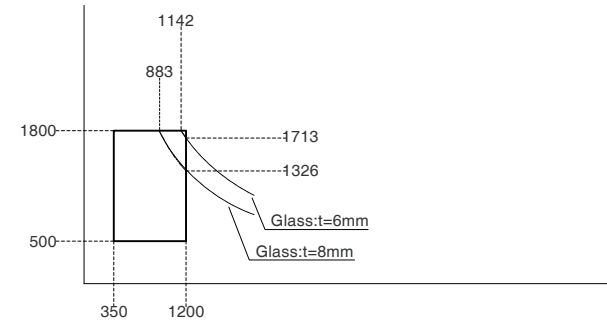
- In case of over 8mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)



AWNING WINDOW (WITH SUBLOCK)



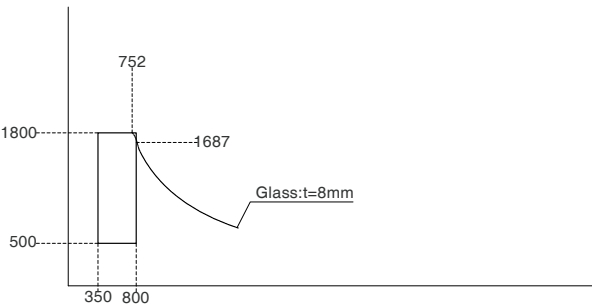
- In case of over 8mm glass thickness, please consult with our technician
- Swing screen available



CASEMENT WINDOW (WITH SUBLOCK)



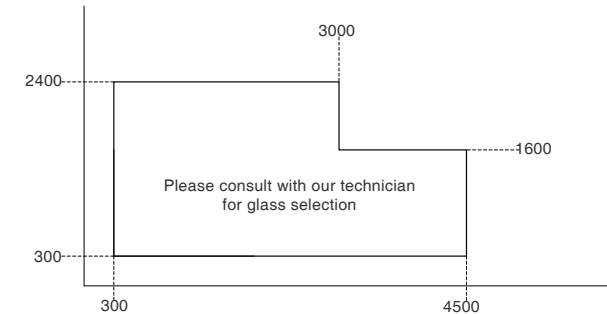
- In case of over 8mm glass thickness, please consult with our technician
- Select from L/R
- Swing screen available
- Safety arm option



FIXED WINDOW



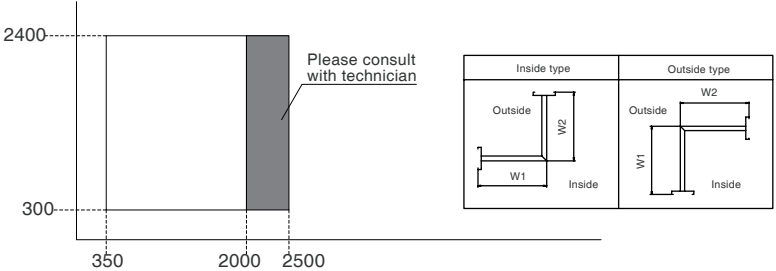
- Wind load performance varies by glass thickness, please consult with our technician



CORNER FIXED WINDOW



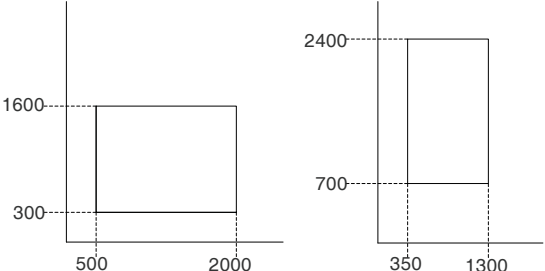
- Only available in SG
- Only available with sealant finish
- Both in/outward corner available
- Middle bar (optional)



FIX UNIT VARIATION



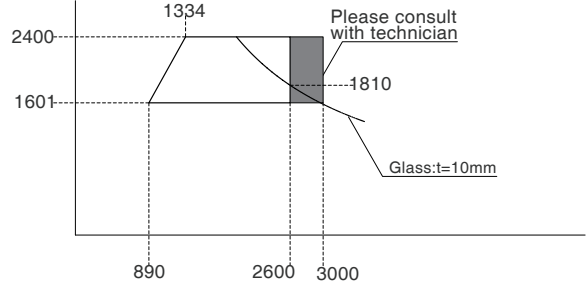
- Wind load performance varies by glass thickness, Please consult with our technician



SLIDING DOOR (2 PANELS ON 2 TRACKS)



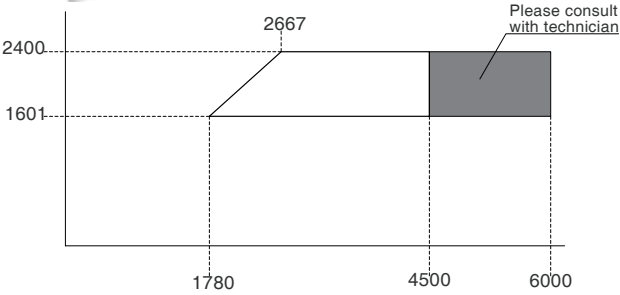
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Safety arm option
- Flat attachment option



SLIDING DOOR (4 PANELS ON 2 TRACKS)



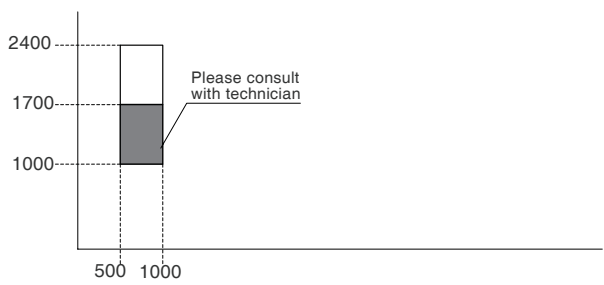
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Flat attachment option



OUT-SWING DOOR (SINGLE)



- In case of over 10mm glass thickness, please consult with our technician
- Door closer Not available
- Select from L/R



MIXED & COMBINATION WINDOW

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

ATIS

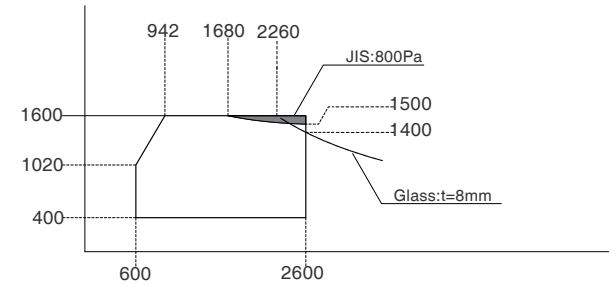
- WINDOW
- DOOR
- OPTION
- MIX

- Available in SG and IG unit

SLIDING WINDOW (2 PANELS ON 2 TRACKS)



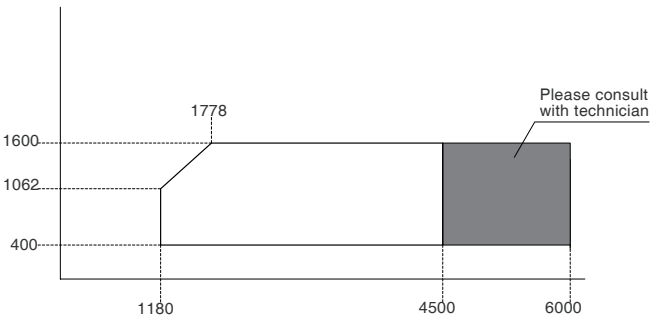
- In case of over 8mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Safety arm option



SLIDING WINDOW (4 PANELS ON 2 TRACKS)



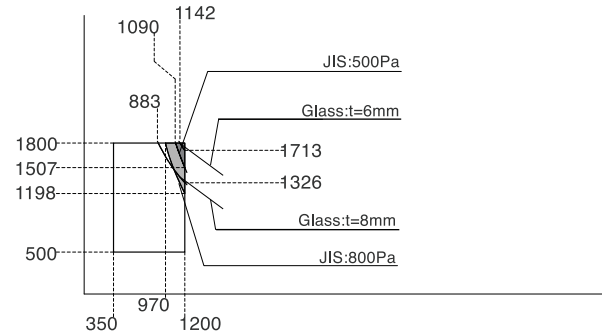
- In case of over 8mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)



AWNING WINDOW (SINGLE LOCK)



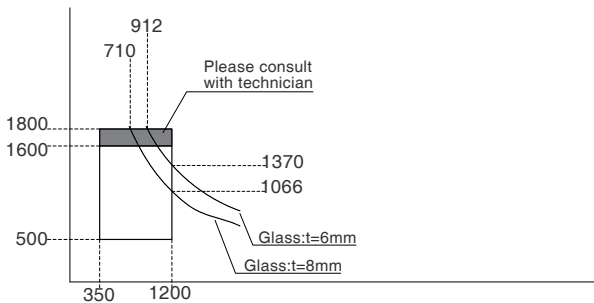
- In case of over 8mm glass thickness, please consult with our technician
- Swing screen available



AWNING OPERATOR WINDOW



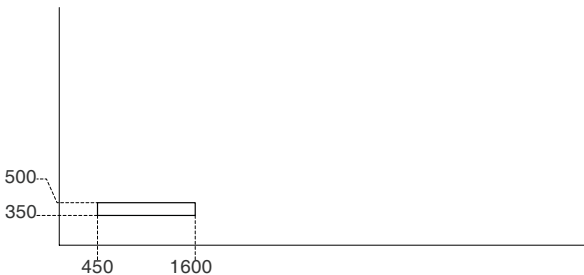
- In case of over 8mm glass thickness, please consult with our technician
- Smart screen available



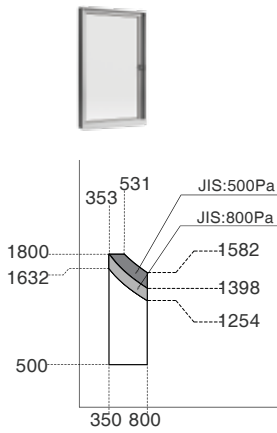
AWNING SLIT WINDOW



- In case of over 8mm glass thickness, please consult with our technician
- Smart screen available
- Select from Pully chain or orbit handle

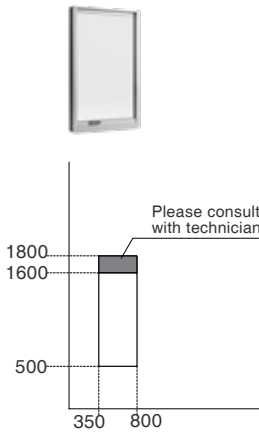


CASEMENT WINDOW (SINGLE LOCK)



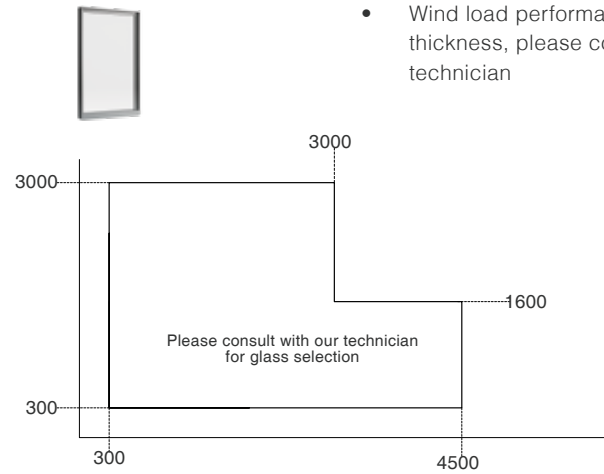
- In case of over 8mm glass thickness, please consult with our technician
- Select from L/R
- Swing screen available
- Safety arm option

CASEMENT OPERATOR WINDOW



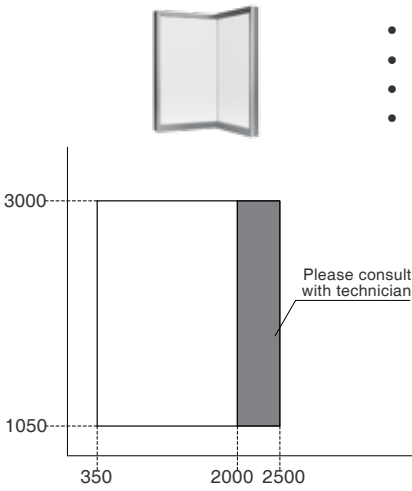
- In case of over 8mm glass thickness, please consult with our technician
- Select from L/R
- Smart screen available
- Safety arm option

FIXED WINDOW



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

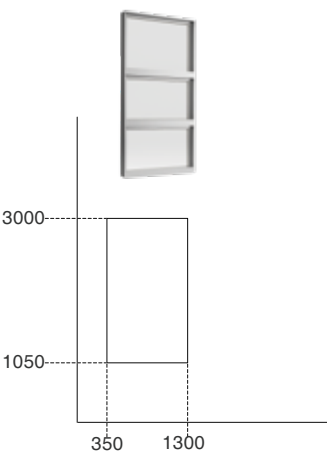
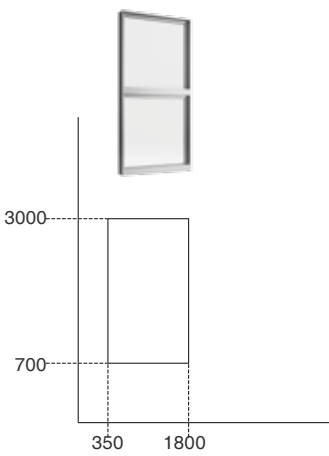
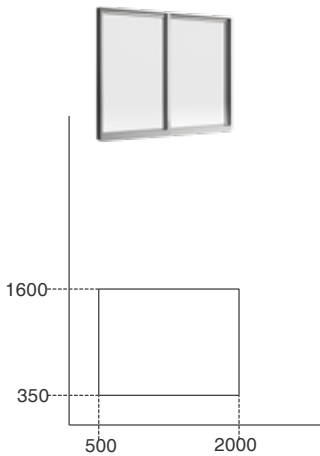
CORNER FIXED WINDOW



- Only available in SG
- Only available with sealant finish
- Both in/outward corner available
- Middle bar (optional)

Inside type	Outside type
W1 W2	W1 W2

FIX UNIT VARIATION

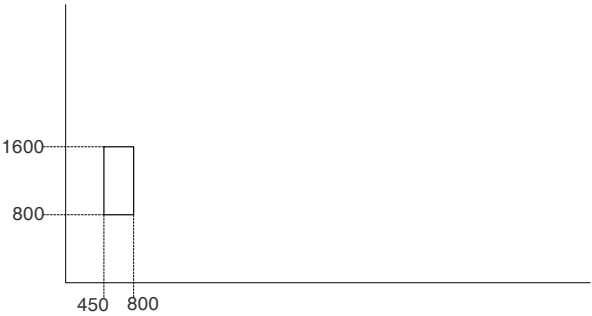


- Wind load performance varies by glass thickness, please consult with our technician

TILT & SLIDE



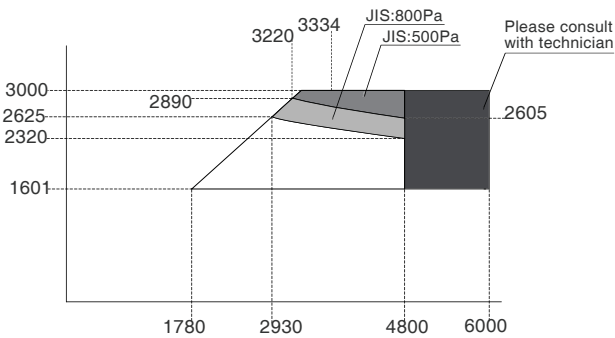
- In case of over 8mm glass thickness, please consult with our technician
- External insect screen available



SLIDING DOOR (4 PANELS ON 2 TRACKS)



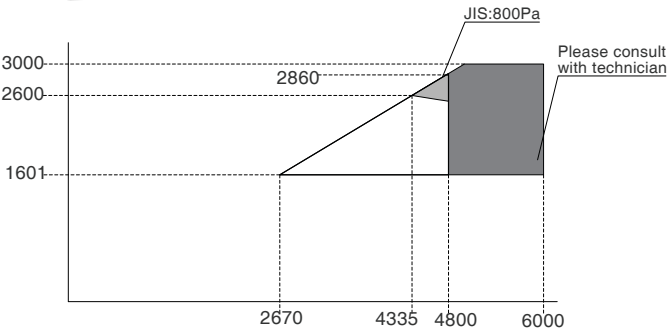
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Flat attachment option



SLIDING DOOR (6 PANELS ON 3 TRACKS)



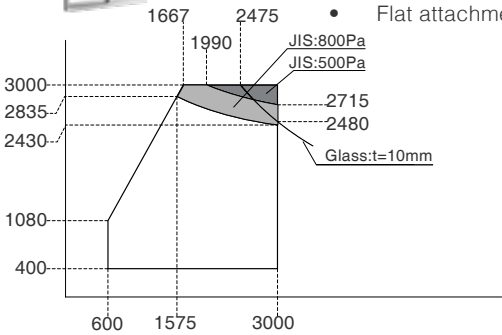
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available



SLIDING DOOR (2 PANELS ON 2 TRACKS)



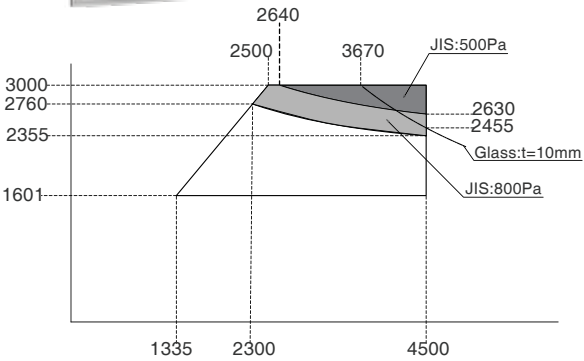
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available
- Internal insect screen (optional)
- Safety arm option
- Flat attachment option



SLIDING DOOR (3 PANELS ON 3 TRACKS)



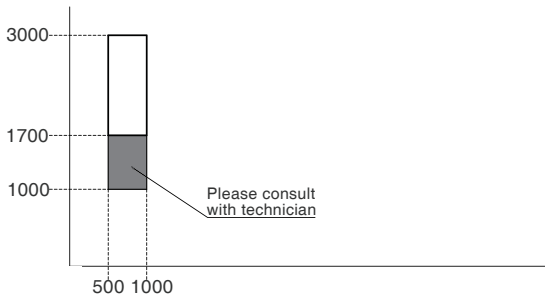
- In case of over 10mm glass thickness, please consult with our technician
- External insect screen available



OUT-SWING DOOR (SINGLE)



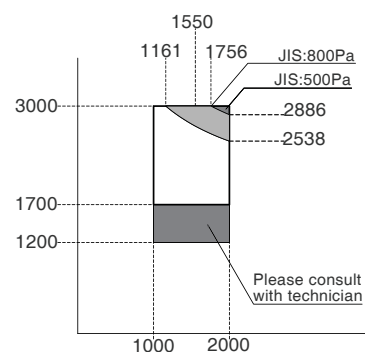
- In case of over 10 mm glass thickness, please consult with our technician
- Door closer Not available
- Select from L/R



OUT-SWING DOOR (DOUBLE)



- In case of over 10 mm glass thickness, please consult with our technician
- Door closer Not available
- Select from L/R



MIXED & COMBINATION WINDOW

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







ATIS PROJECT REFERENCE

A&B HOUSE, BANGKOK









WE SERIES

WE SERIES

COLOR



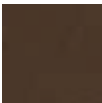
NATURAL
WHITE



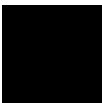
NATURAL
SILVER



SHINE
GRAY



AUTUMN
BROWN



NATURAL
BLACK

WE PLUS

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



SPECIFICATIONS

Frame Depth	72 mm 104 mm (3 tracks sliding)
Height of Sill	35 mm 50 mm (all slidings)
Glass Thickness	5, 6, 8 mm (Panel: Single glass groove 11mm) 8-13.52 mm (Panel: Laminated glass groove 17mm)

PERFORMANCES

WIND
PRESSURE



1600 PA
(ASTM E330)

WATER
TIGHTNESS



240 PA
(ASTM E331)

AIR
TIGHTNESS



10.7m³ / h·m²
(ASTM E283)

NOISE
INSULATION*



T-1 (25)
(JIS A 1416)

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

WE 70

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



SPECIFICATIONS

Frame Depth	72 mm 104 mm (3 tracks sliding)
Height of Sill	35 mm
Glass Thickness	5, 6, 8 mm

PERFORMANCES

WIND PRESSURE	WATER TIGHTNESS	AIR TIGHTNESS	NOISE INSULATION*
S-1 (800PA) (JIS A 1515)	W-2 (150PA) (JIS A 1517)	A-3 (10) (JIS A 1516)	T-1 (25) (JIS A 1416)

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

WE 40

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



SPECIFICATIONS

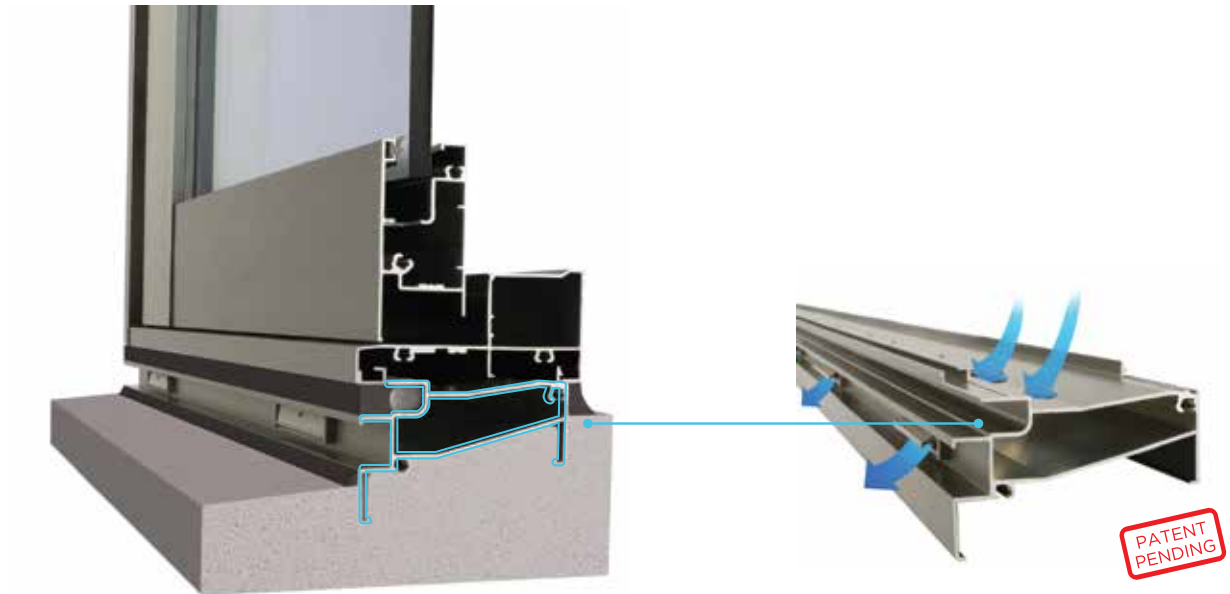
Frame Depth	41 mm
Height of Sill	35 mm
Glass Thickness	5, 6 mm

PERFORMANCES

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

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

UNIQUE FEATURES



PRE-INSTALLED SILL ATTACHMENT FOR PRE-CAST CONCRETE (OPTION)

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.

*Only available for WE PLUS

WATERTIGHT SILL WITH DRIANAGE DEVICES

AIRFLOW SLOT



Smooth operation with bearing rollers

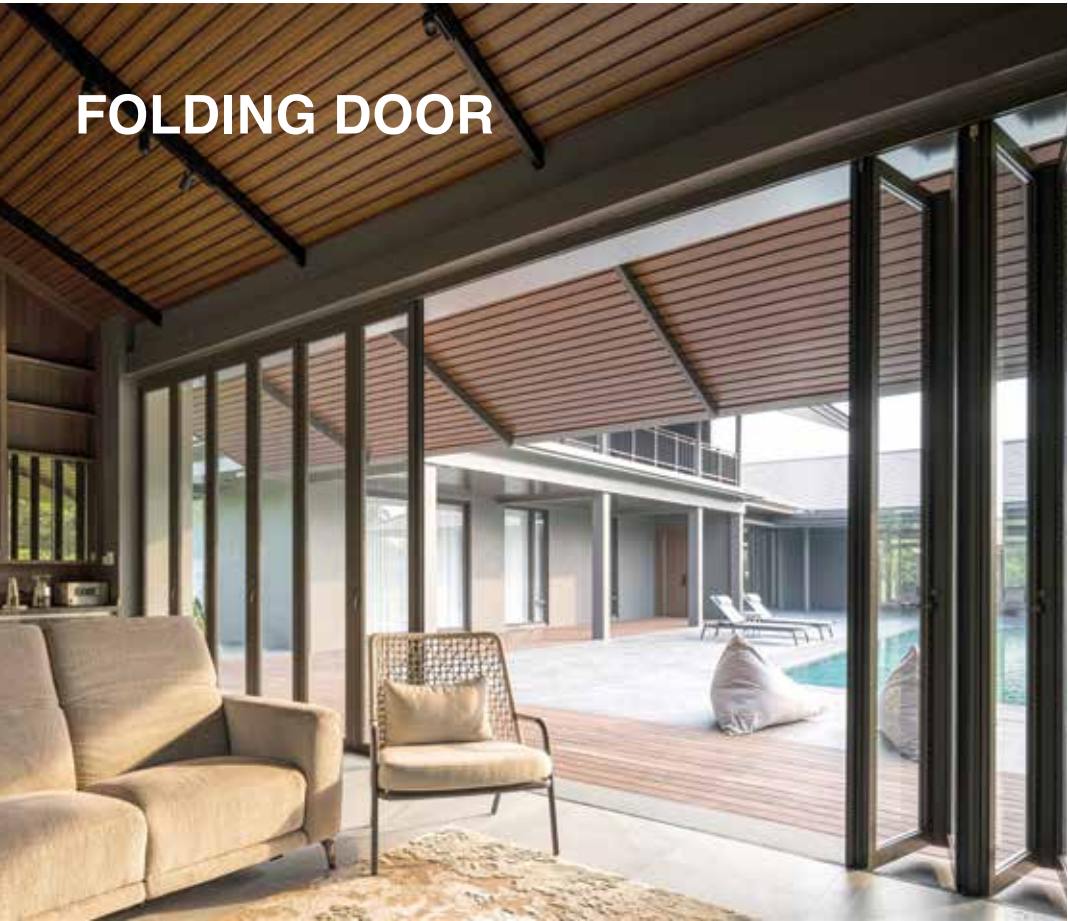


Air tightness: JIS A-3 when closed



Detachable insect screen for cleaning

Available with all windows



UNIQUE FEATURES



Watertight sill with drainage system



Flat sill is available and allows barrier-free passage



Smart designs prevent finger injuries



Hinge-less design

PRODUCT VARIETY (INSIDE VIEW)

Panels	One way	Both ways	Center
4 Panels			
6 Panels			
8 Panels			
12 Panels			
16 Panels			

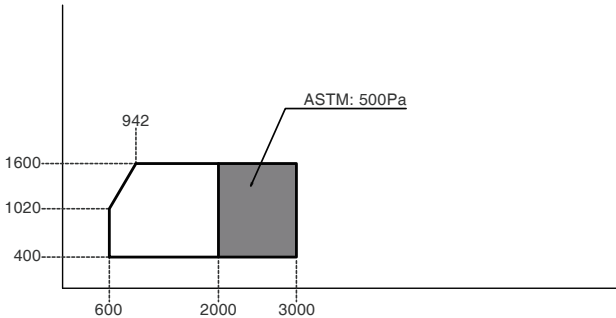
WE PLUS

- WINDOW
- DOOR
- OPTION
- MIX

SLIDING WINDOW (2 PANELS ON 2 TRACKS)



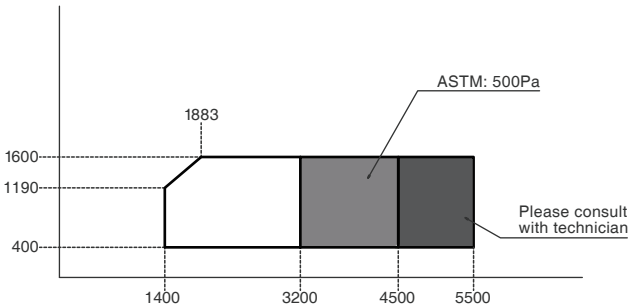
- Inside insect screen available



SLIDING WINDOW (4 PANELS ON 2 TRACKS)



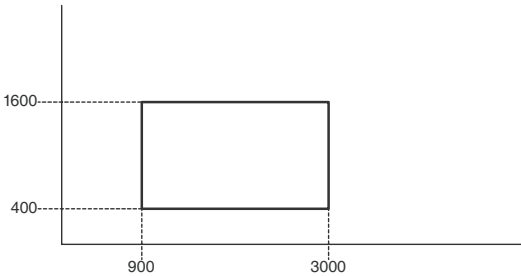
- Inside insect screen available



SLIDING WINDOW (3 PANELS ON 3 TRACKS)



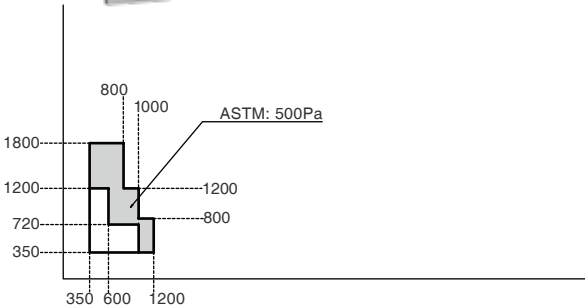
- Inside insect screen NOT available



AWNING WINDOW (SINGLE LOCK)



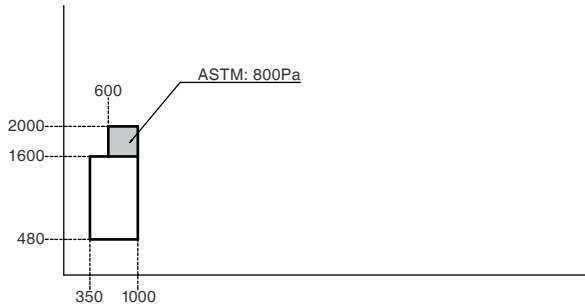
- Insect screen available



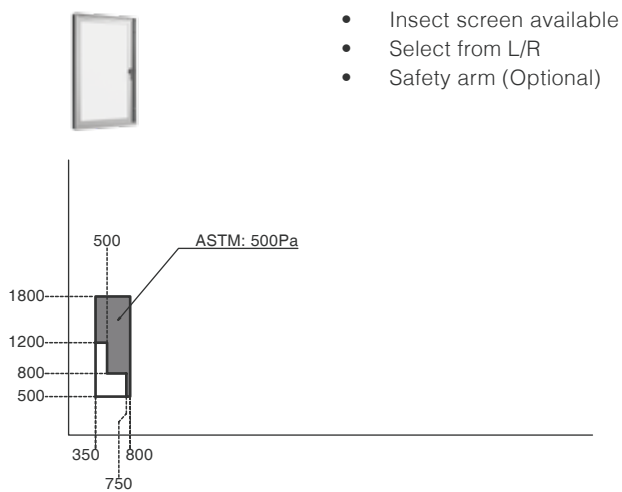
AWNING WINDOW (MULTI LOCK)



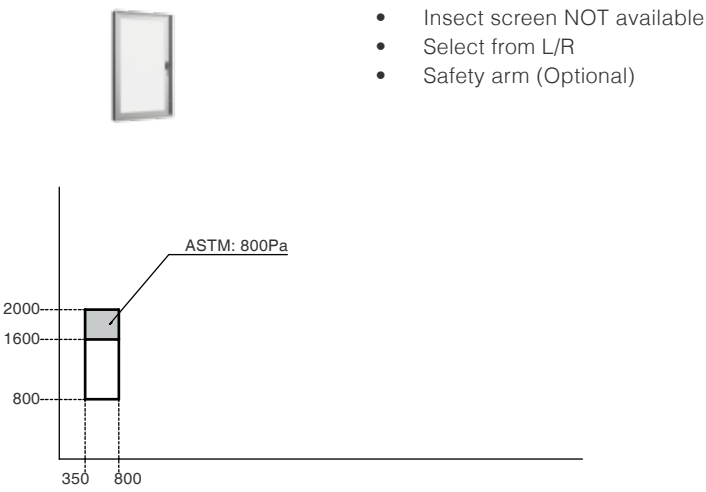
- Insect screen NOT available



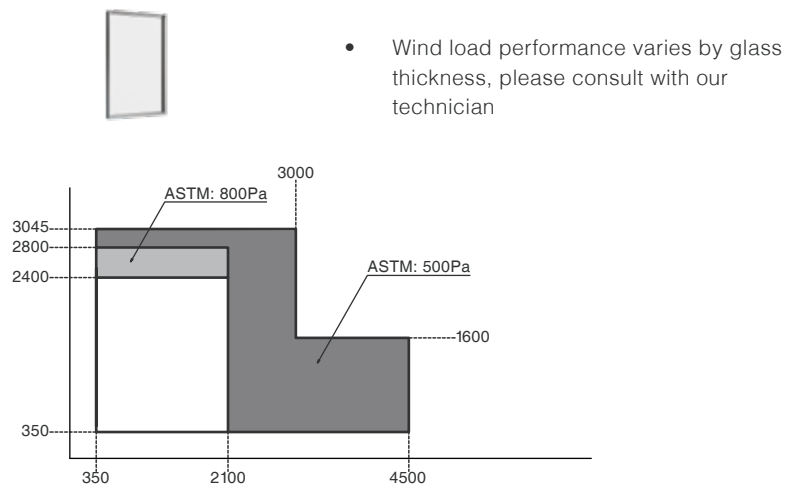
CASEMENT WINDOW (SINGLE LOCK)



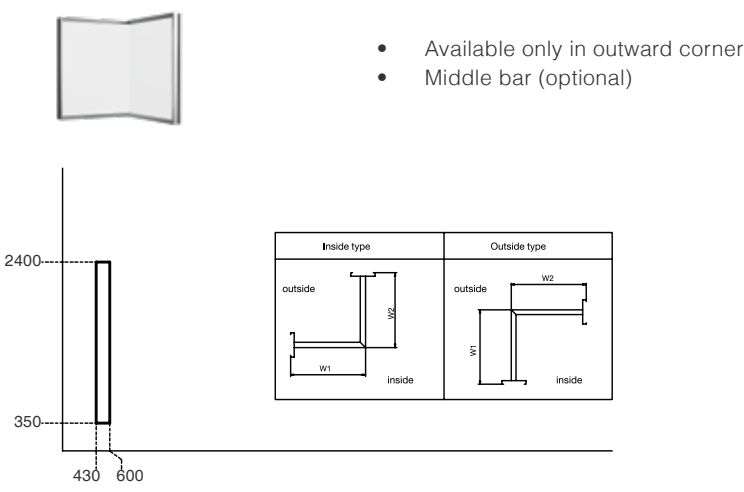
CASEMENT WINDOW (MULTI LOCK)



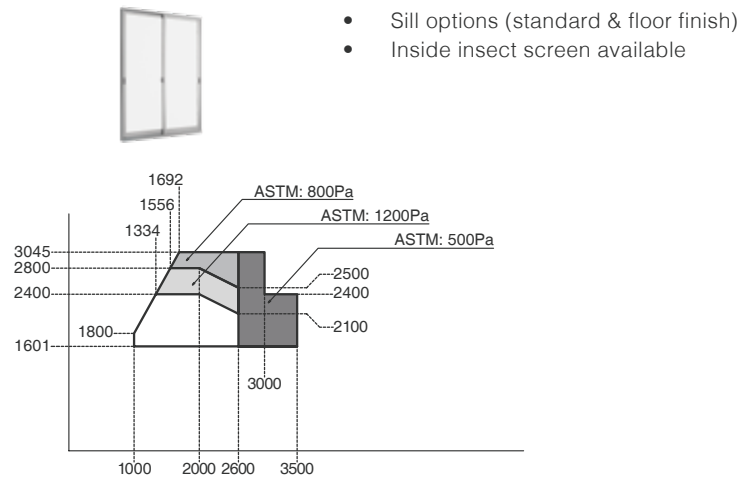
FIXED WINDOW



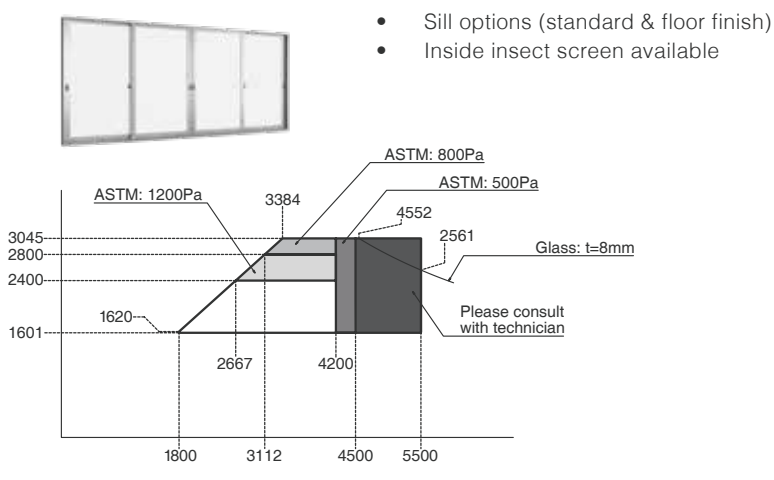
CORNER FIXED WINDOW



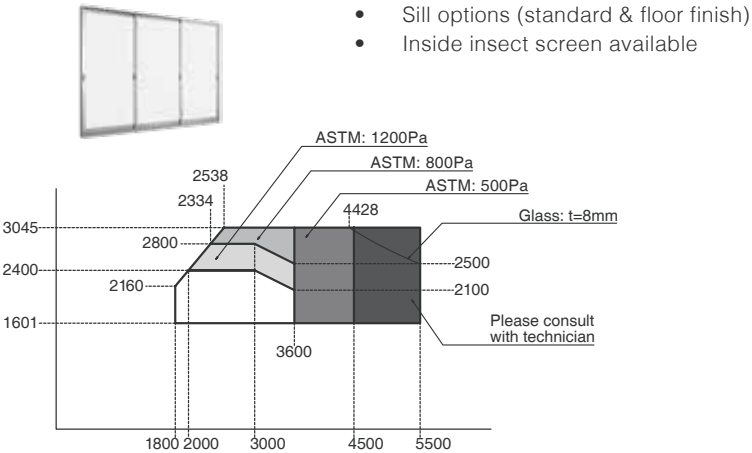
SLIDING DOOR (2 PANELS ON 2 TRACKS)



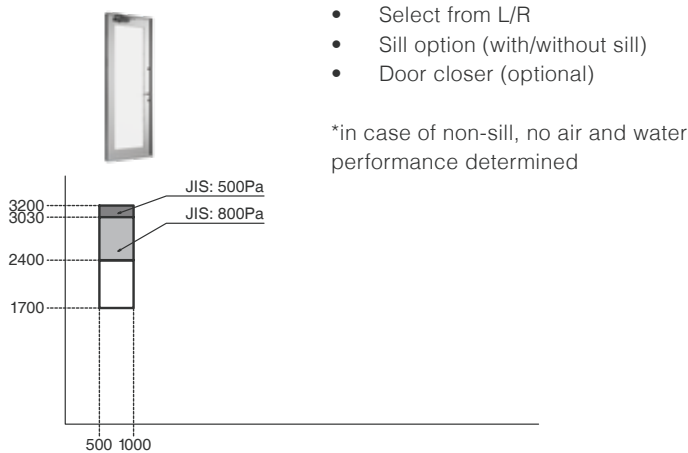
SLIDING DOOR (4 PANELS ON 2 TRACKS)



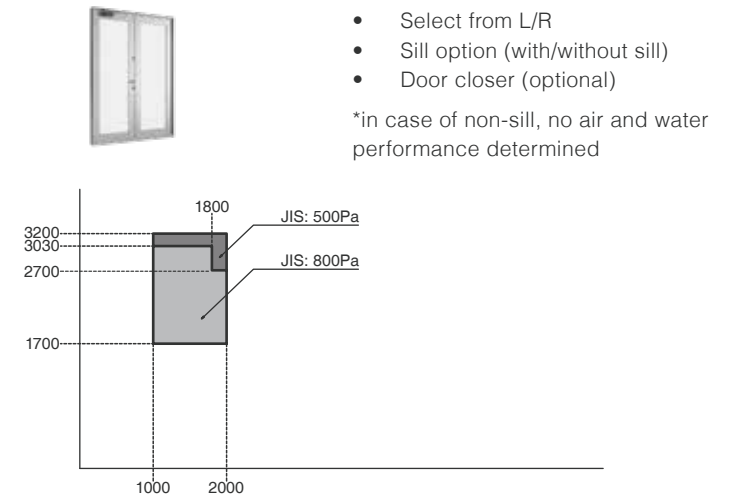
SLIDING DOOR (3 PANELS ON 3 TRACKS)



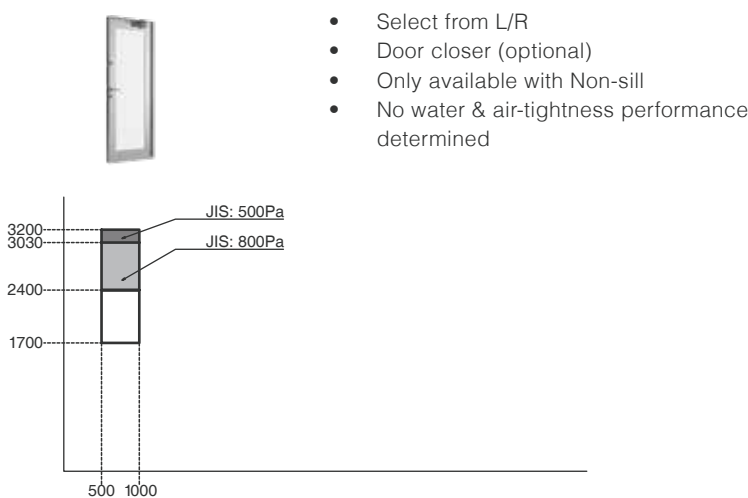
OUT – SWING DOOR (SINGLE)



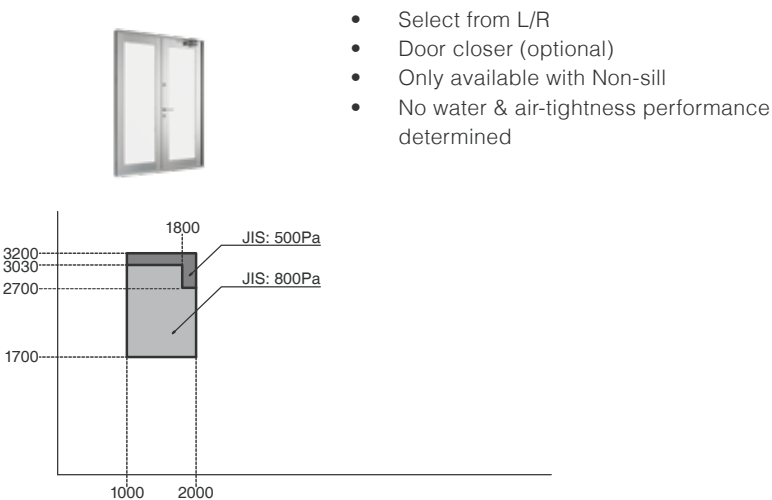
OUT-SWING DOOR (DOUBLE)



IN-SWING DOOR (SINGLE)



IN-SWING DOOR (DOUBLE)



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

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

WE 70

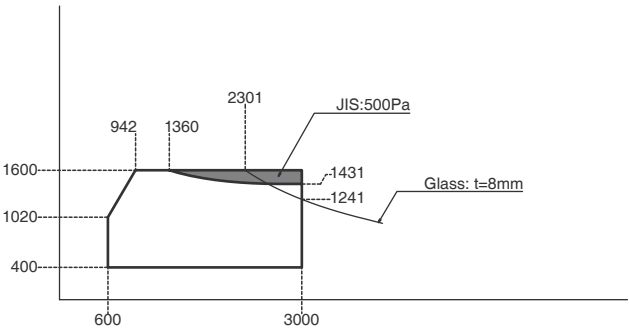
- WINDOW
- DOOR
- OPTION
- MIX

- Airflow slots are available for windows only
- Windows on top of airflow slot shall be less than 25Kg.
- Maximum length of airflow slot is 1500mm
(For windows wider than 1500mm, use 2 or 3 airflow slots)

SLIDING WINDOW (2 PANELS ON 2 TRACKS)



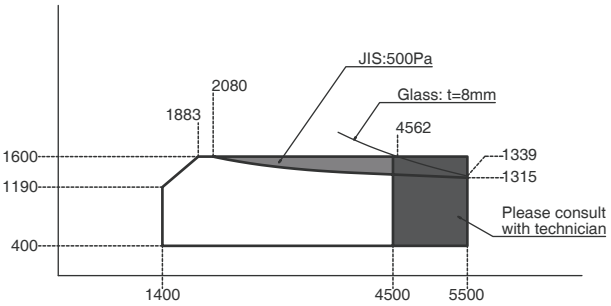
- Internal insect screen available
- External insect screen available with a special order
- Single sliding available (L/R)



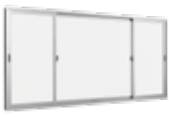
SLIDING WINDOW (4 PANELS ON 2 TRACKS)



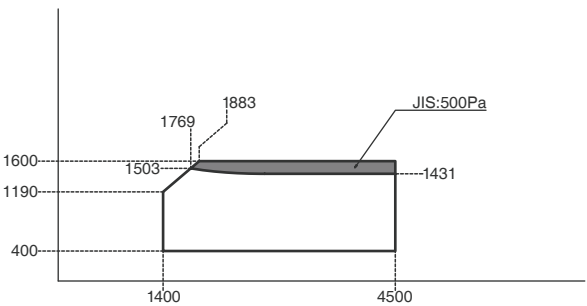
- Internal insect screen available
- External insect screen available with a special order



SLIDING WINDOW (3 PANELS ON 2 TRACKS) SFS



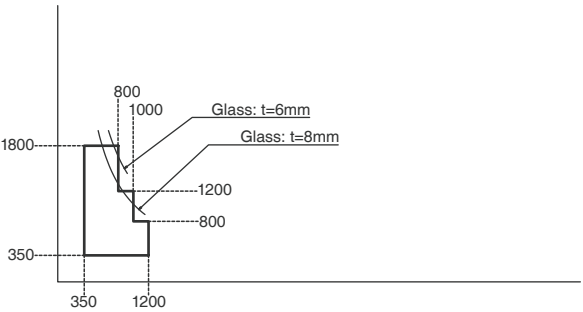
- Internal insect screen available
- External insect screen available with a special order



AWNING WINDOW



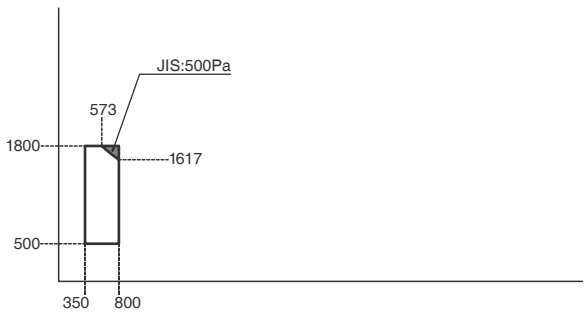
- Insect Screen available



CASEMENT WINDOW



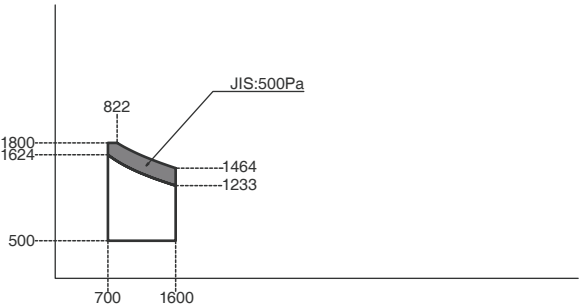
- Select from L/R
- Insect screen available



DOUBLE CASEMENT WINDOW



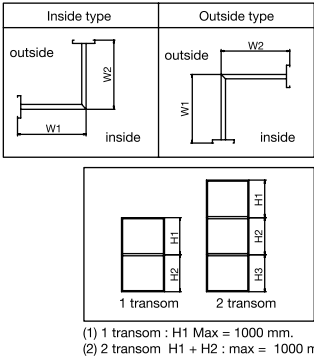
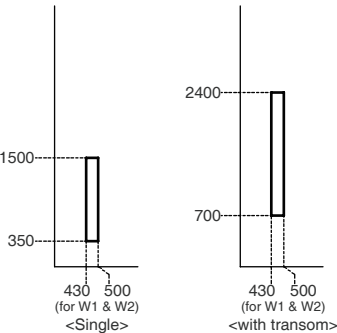
- Insect Screen available



CORNER FIXED WINDOW



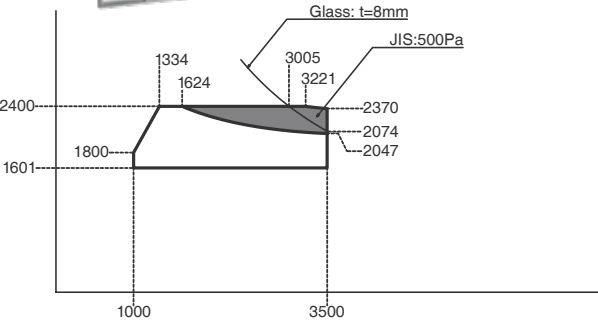
- Both In/outward corner available
- Middle bar (optional)



SLIDING DOOR (2 PANELS ON 2 TRACKS)



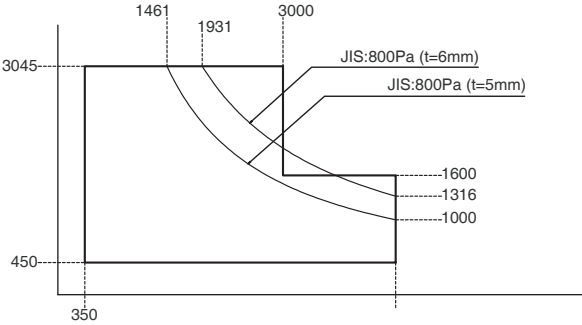
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- Insect screen available (internal)



FIXED WINDOW



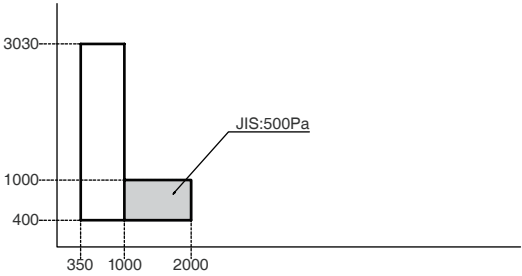
- Up to 4 fixed windows with unitized mullion
- Wind load performance varies by glass thickness Please consult with our technician



ALUMINUM LOUVER



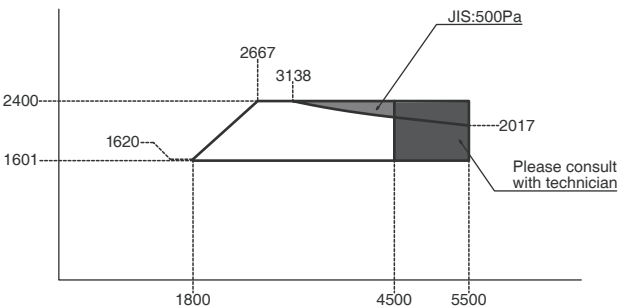
- No performance determined



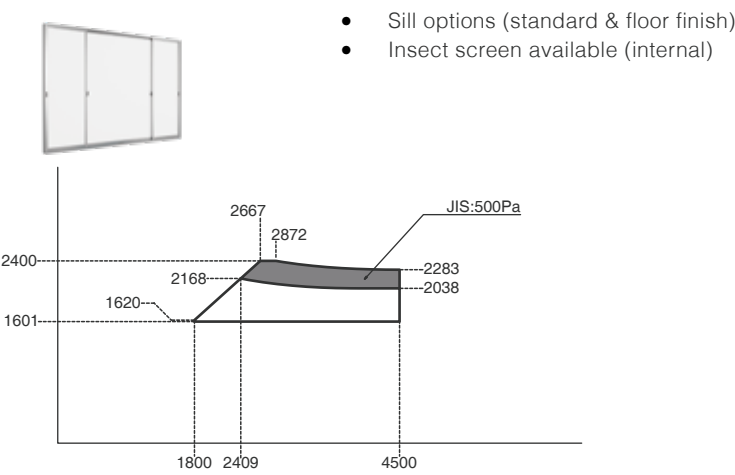
SLIDING DOOR (4 PANELS ON 2 TRACKS)



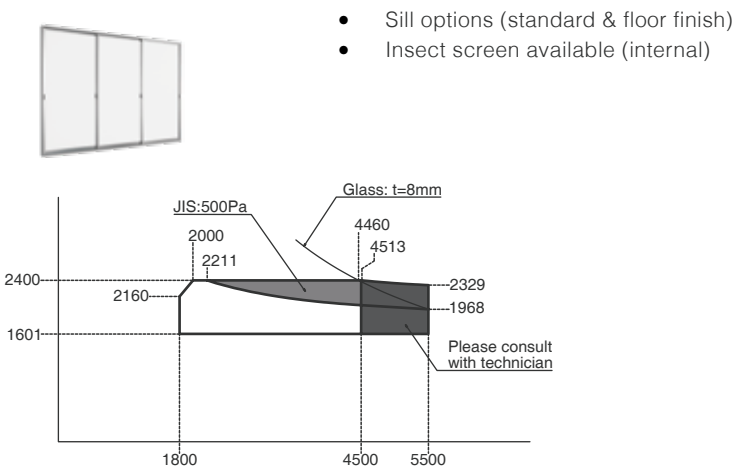
- Sill options (standard & floor finish)
- Insect screen available (internal)



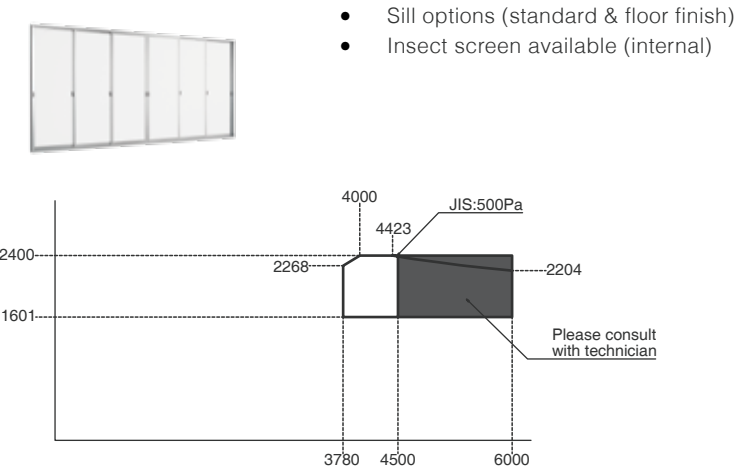
SLIDING DOOR (3 PANELS ON 2 TRACKS) SFS



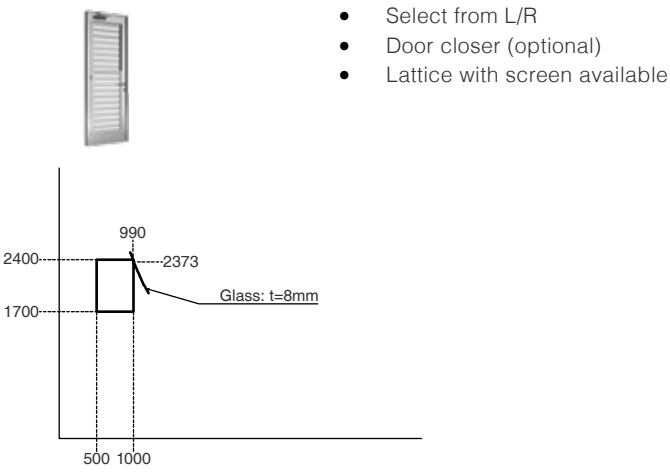
SLIDING DOOR (3 PANELS ON 3 TRACKS)



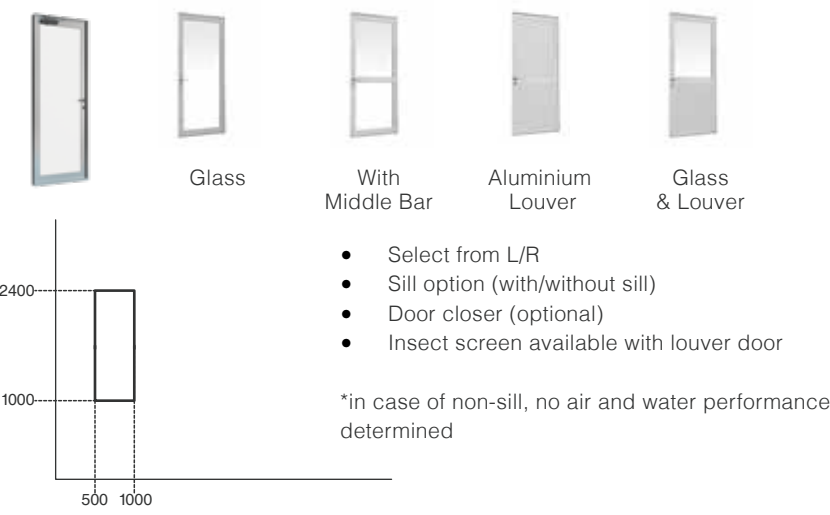
SLIDING DOOR (6 PANELS ON 3 TRACKS)



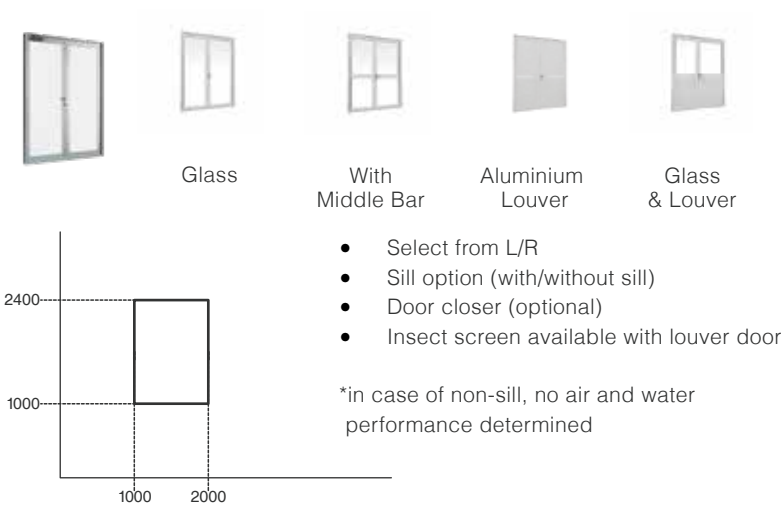
AIRFLOW DOOR



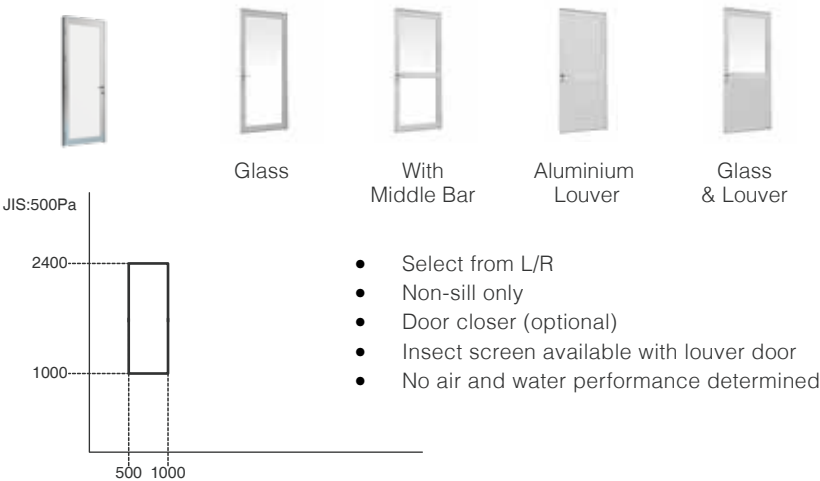
OUT-SWING DOOR (SINGLE)



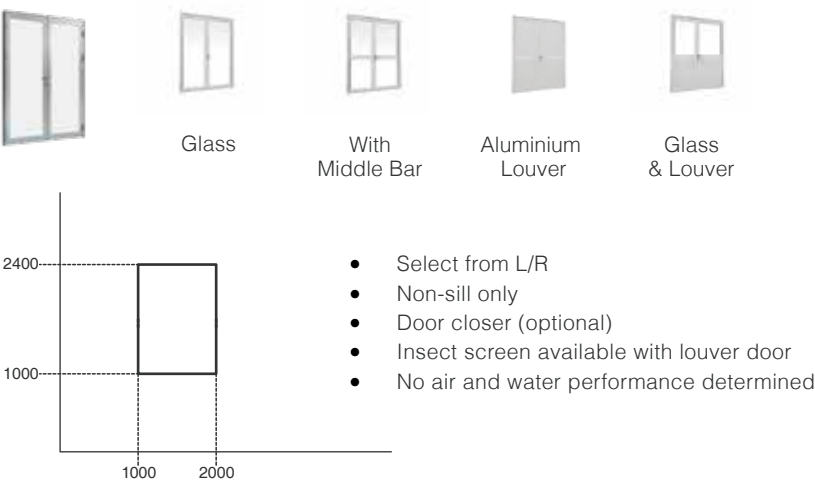
OUT-SWING DOOR (DOUBLE)



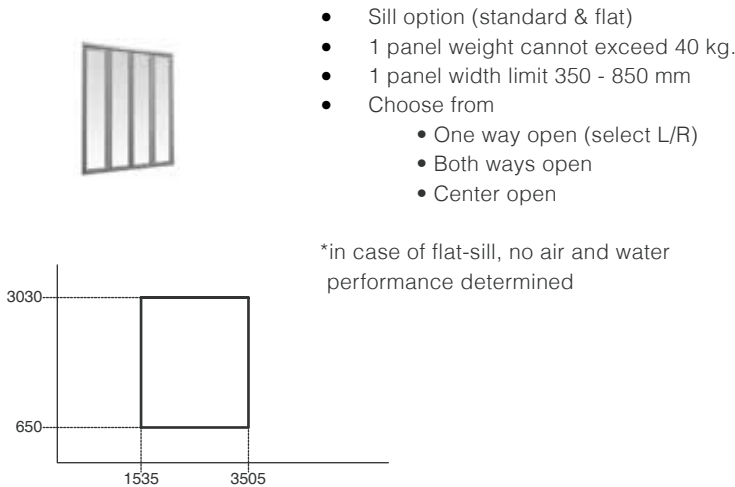
IN-SWING DOOR (SINGLE)



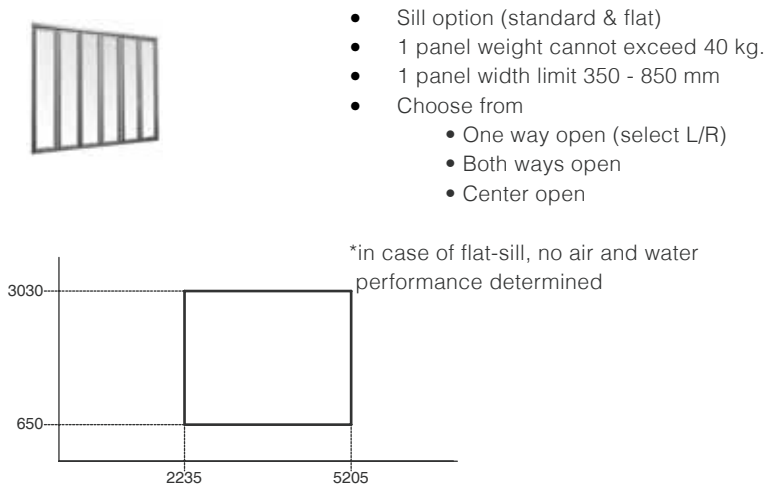
IN-SWING DOOR (DOUBLE)



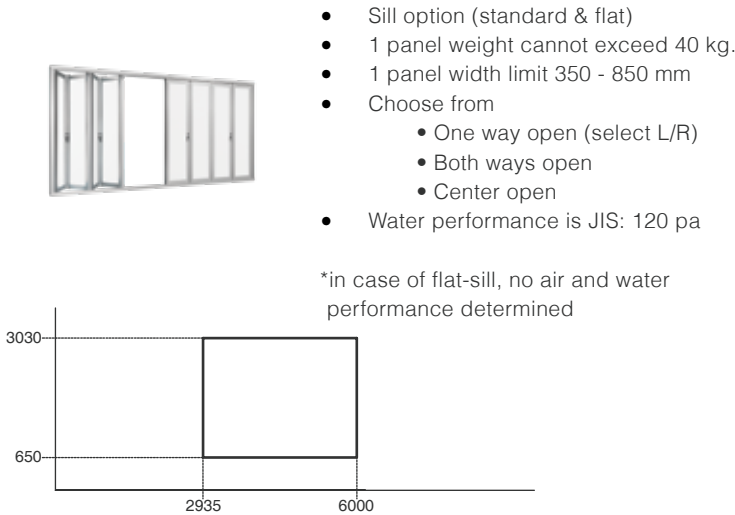
FOLDING DOOR (4 PANELS)



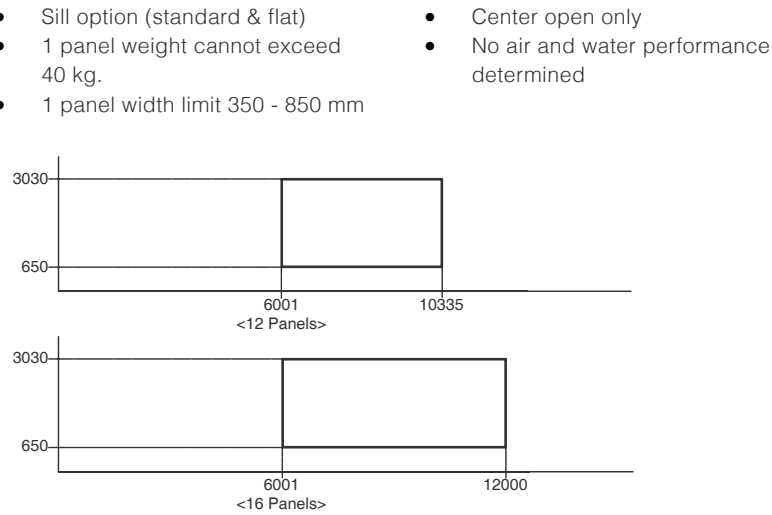
FOLDING DOOR (6 PANELS)



FOLDING DOOR (8 PANELS)



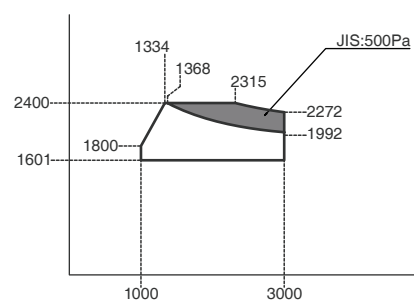
FOLDING DOOR (12,16 PANELS)



ENTRANCE SLIDING DOOR (2 PANELS ON 2 TRACKS)



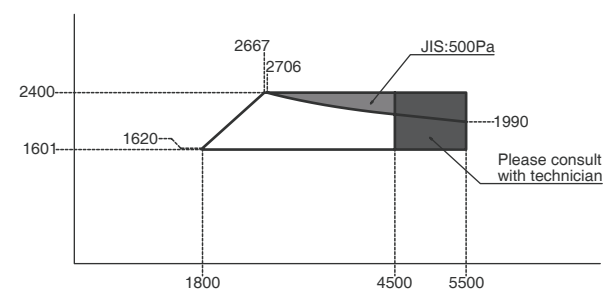
- Sill options (standard & floor finish)
- Single sliding available (L/R)
- External Insect screen available



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 door, please consult with our sales representative for selection
- 180° mullion (standard)
- 90° mullion (only for outward corner)
- Transom (standard)

UNIT WINDOWS

Bottom Windows	Top Windows											
	Sliding Window (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)		●		

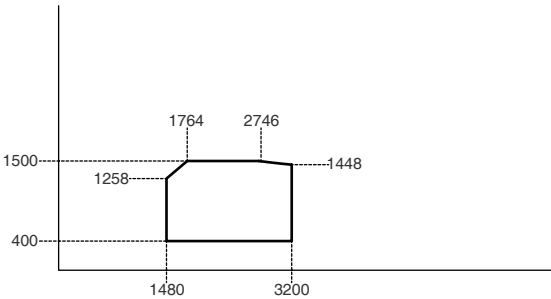
WE 40

- WINDOW
- DOOR
- OPTION
- MIX

CENTER SLIDING WINDOW



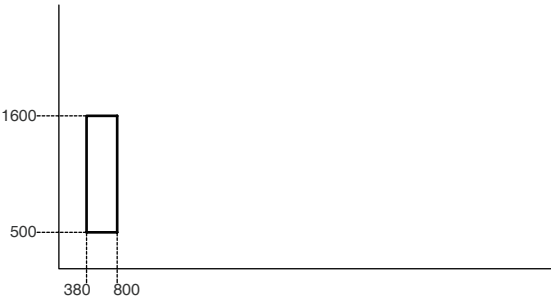
- External fixed insect screen available



CASEMENT WINDOW



- Insect screen NOT available



SINGLE SLIDING WINDOW



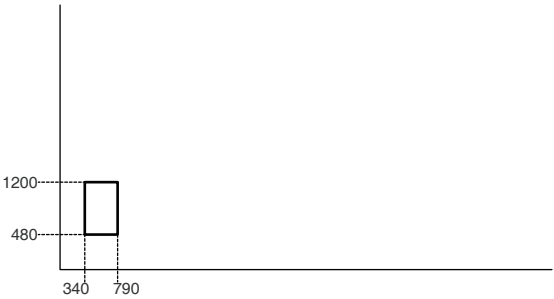
- Select from L/R
- External fixed insect screen available



AWNING WINDOW



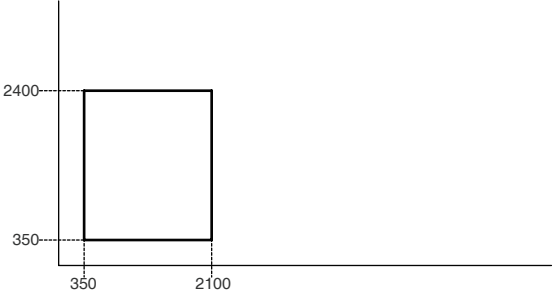
- Insect screen NOT available



FIXED WINDOW



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







WE SERIES PROJECT REFERENCE

THE ARTIQUE, BANGKOK

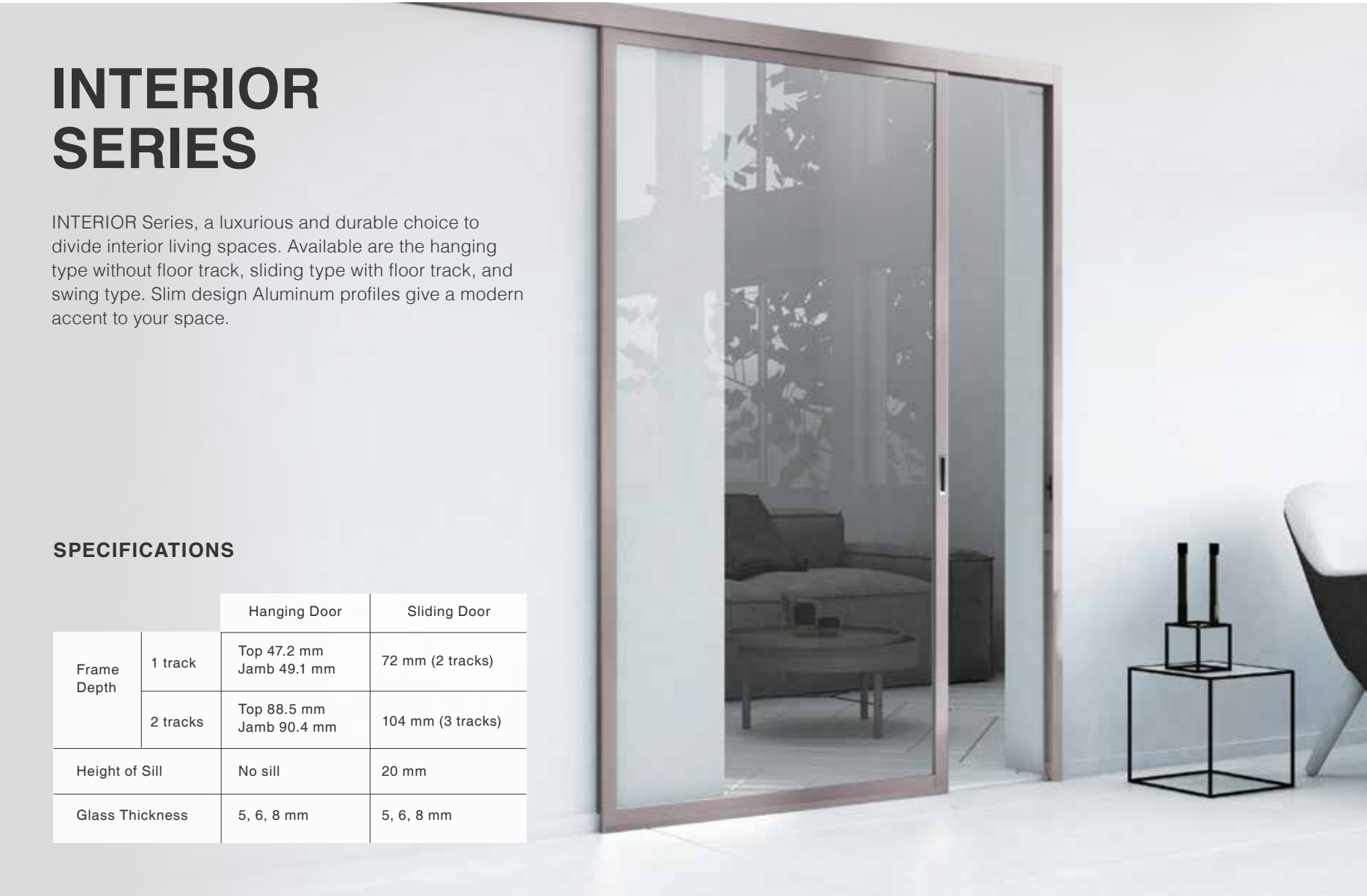








INTERIOR SERIES



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 Aluminum profiles give a modern accent to your space.

SPECIFICATIONS

		Hanging Door	Sliding Door
Frame Depth	1 track	Top 47.2 mm Jamb 49.1 mm	72 mm (2 tracks)
	2 tracks	Top 88.5 mm Jamb 90.4 mm	104 mm (3 tracks)
Height of Sill		No sill	20 mm
Glass Thickness		5, 6, 8 mm	5, 6, 8 mm

COLOR



NATURAL
WHITE



NATURAL
SILVER



SHINE
GRAY



AUTUMN
BROWN



NATURAL
BLACK

FEATURES



EFFORTLESS
MOVEMENT



SAFETY

UNIQUE FEATURES



DURABLE ROLLERS FOR SMOOTH OPERATION



SOFT CLOSE FOR EXTRA SAFETY (OPTION)



PULL (STANDARD)



HANDLE & LOCK-SET (OPTION IN SILVER ONLY)



SILL-LESS DESIGN PROVIDES SAFETY AND COMFORT FOR ALL



PANEL GUIDE PIECE TO PREVENT PANEL FROM SHAKING WHEN SLIDING

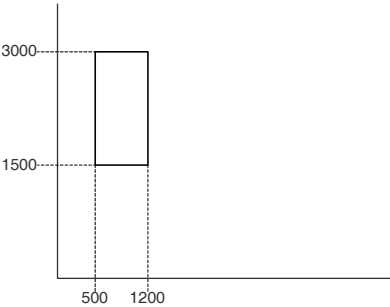
INTERIOR SERIES

- WINDOW
- DOOR
- OPTION
- MIX

ON-WALL HANGING DOOR (1 PANEL ON 1 TRACK)



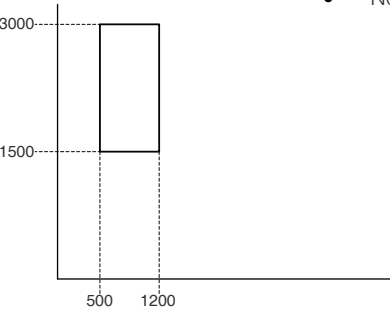
- Select from L/R
- Lock (optional)
- Soft close (optional)
- Select from with or without ending jamb
- No performance determined



IN-WALL HANGING DOOR (1 PANEL ON 1 TRACK)



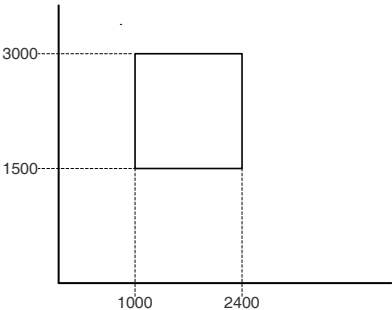
- Select from L/R
- Lock (optional)
- Soft close (optional)
- Can be a pocket door
- Select from with or without ending jamb
- No performance determined



ON-WALL HANGING DOOR (2 PANELS ON 1 TRACK)



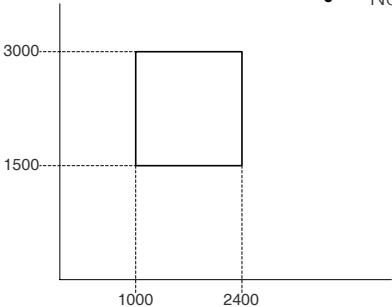
- Lock (optional)
- Soft close (optional)
- Select from with or without ending jamb
- No performance determined



HANGING DOOR (2 PANELS ON 2 TRACKS)



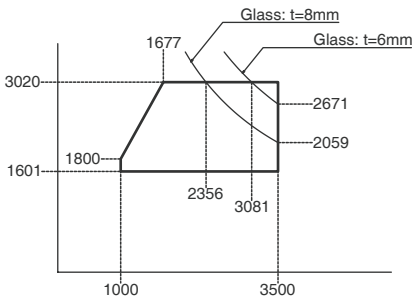
- Select from L/R
- Lock (optional)
- Soft close (optional)
- Only single slide L/R available
- Select from Fix-Slide or Slide-Fix
- No performance determined



PARTITION DOOR (2 PANELS ON 2 TRACKS)



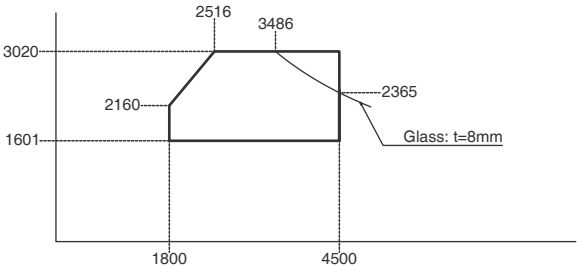
- No performance determined



PARTITION DOOR (3 PANELS ON 3 TRACKS)



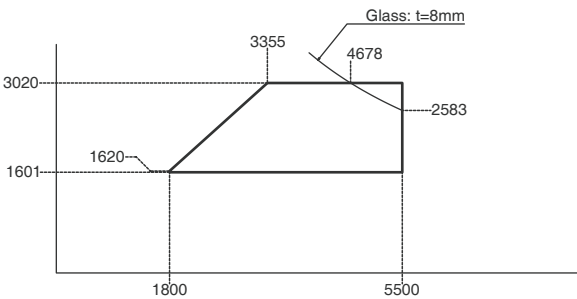
- No performance determined



PARTITION DOOR (4 PANELS ON 2 TRACKS)



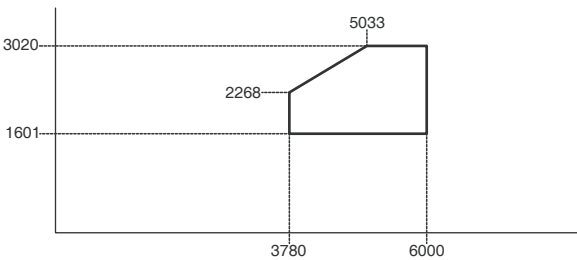
- No performance determined



PARTITION DOOR (6 PANELS ON 3 TRACKS)



- No performance determined



ENTRANCE DOOR





ENTRANCE DOOR

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.



UNIQUE FEATURES

SPECIFICATIONS

Frame Depth	101.6 mm
Height Of Sill	Out-Swing 50 mm
	In-Swing Outside 30 / Inside 14 mm
Door Frame	TOP AND SIDE FRAME • Wood pattern type: Wood pattern resin sheet, wrapping on Aluminum profile with synthetic rubber • Painted type Anodized Aluminum profile
	SILL Anodized Aluminum profile
Door Panel	EXTERNAL SHEET • Wood pattern type : (External) Resin laminated sheet/ (Internal) Anti-rust epoxy coating • Polystyrene (EPS Foam)
	Insulating glass thickness 23 mm (Cleared 3+Air gap 16+Patterned glass 4)

PERFORMANCES

WIND
PRESSURE



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

WATER
TIGHTNESS



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

AIR
TIGHTNESS



A-4 (2)
(JIS A 1516)

NOISE
INSULATION



N/A
(JIS A 1416)



SIMPLE AND MINIMALISTIC



P01

P02

P03

COLORS



TURIN
PINE

CREA
MOCHA

CREA
RUSK

TEAK

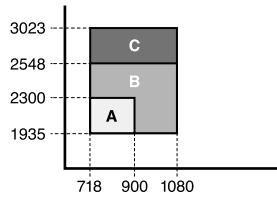
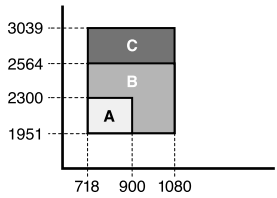
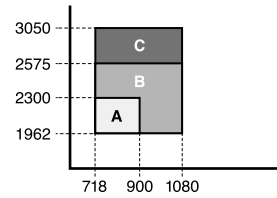
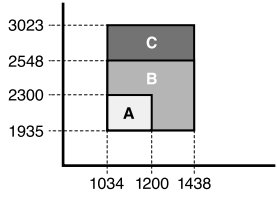
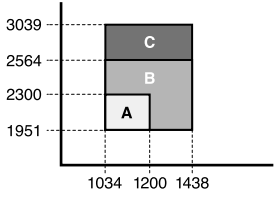
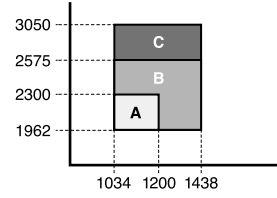
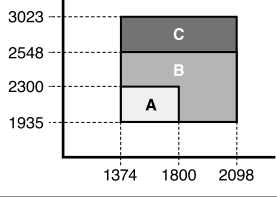
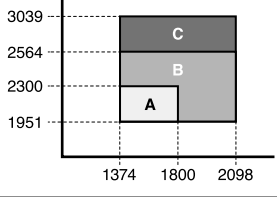
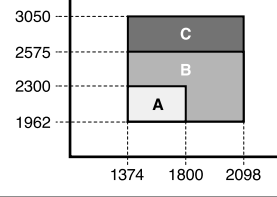


POLISH SIL-
VER

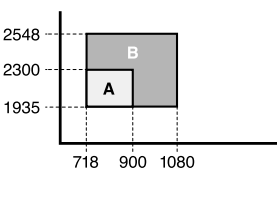
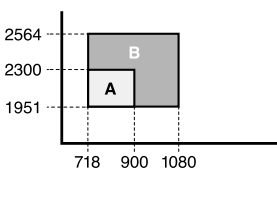
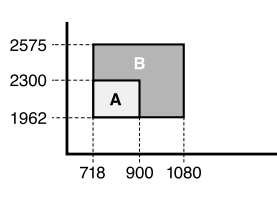
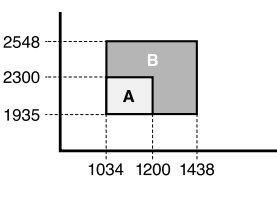
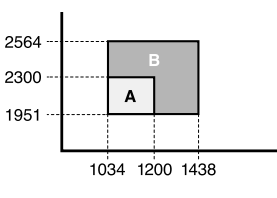
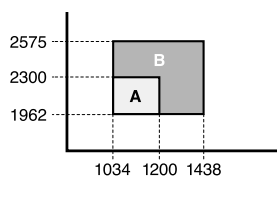
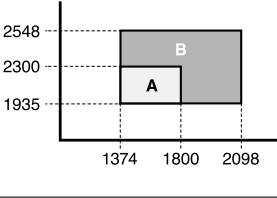
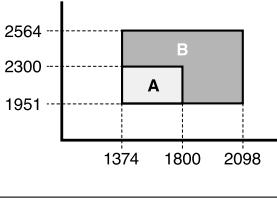
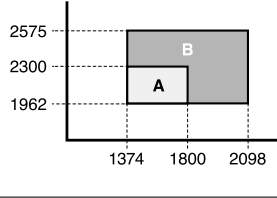
SILKY WHITE

AUTUMN
BROWN



Wood Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASS  WITHOUT GLASS			
DOUBLE 			



Aluminum Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASS  WITHOUT GLASS			
DOUBLE 			

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

MODERN BUT TRADITIONAL



D01

D02

D03

COLORS



TURIN
PINE



CREA
MOCHA

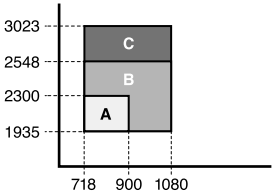
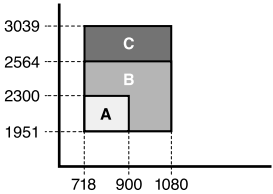
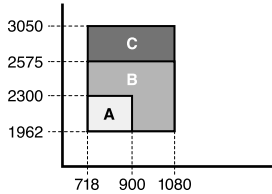
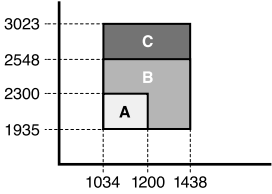
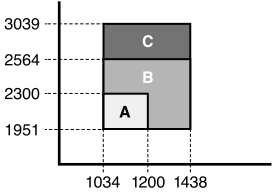
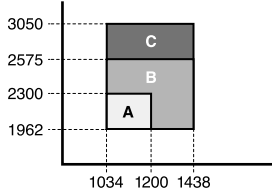
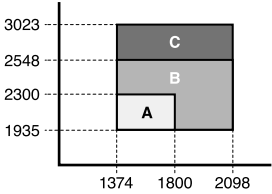
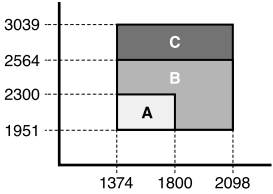
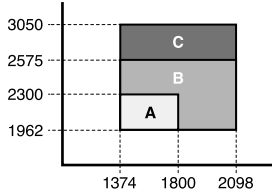


CREA
RUSK



TEAK



Wood Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASSWITHOUT GLASS			
DOUBLE 			



Aluminum Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 	N/A	N/A	N/A
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASSWITHOUT GLASS	N/A	N/A	N/A
DOUBLE 	N/A	N/A	N/A

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

GLASS WITH STYLE



G01 G02 G03 G04

COLORS

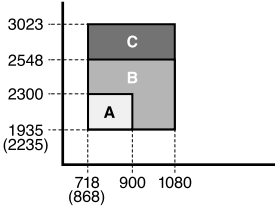
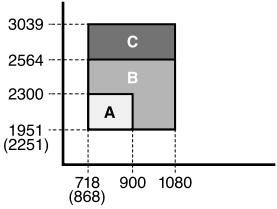
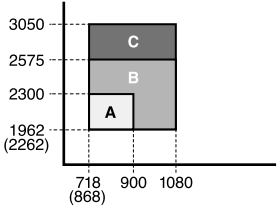
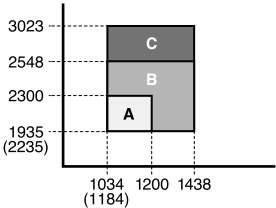
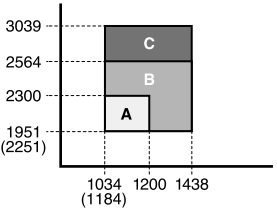
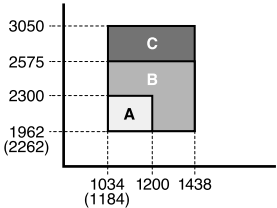
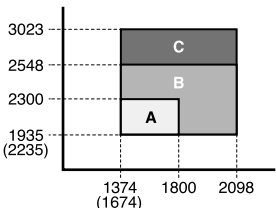
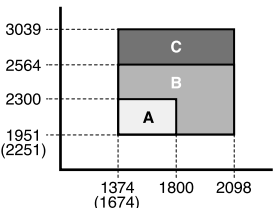
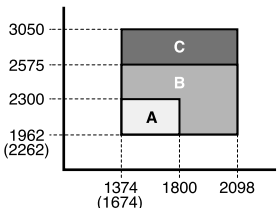


TURIN
PINE CREA
MOCHA CREA
RUSK TEAK



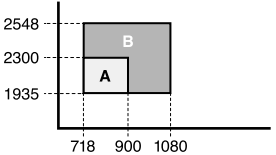
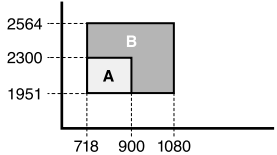
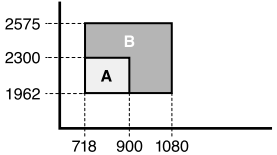
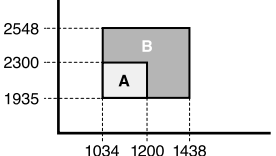
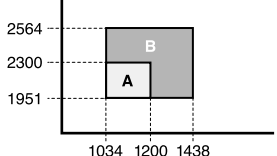
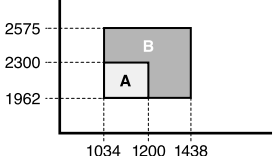
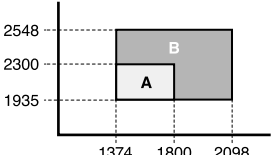
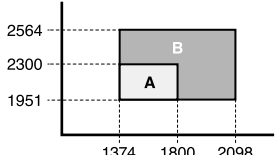
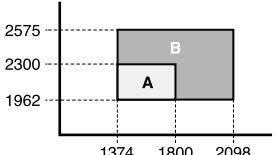
POLISH SIL-
VER SILKY WHITE AUTUMN
BROWN



Wood Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] (1184) 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASS  WITHOUT GLASS			
DOUBLE 			

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



Aluminum Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASS  WITHOUT GLASS			
DOUBLE 			

*A, B, C indicates price changing points. (A<B<C)
** Aluminum pattern not available for G01

COMFORT WITH MINIMAL DESIGN



A01

COLORS



TURIN
PINE



CREA
MOCHA

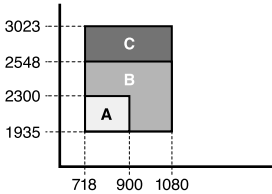
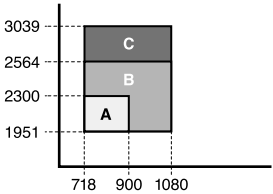
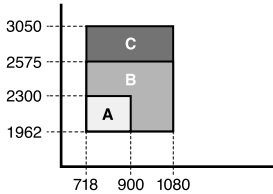
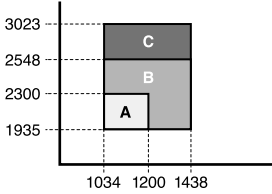
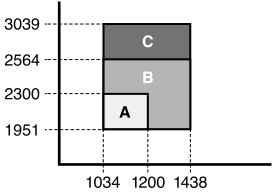
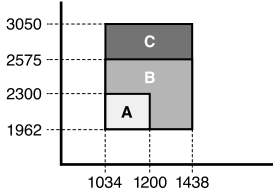


CREA
RUSK



TEAK



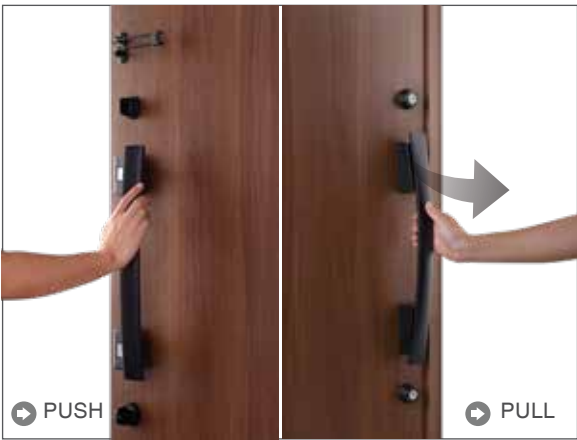
Wood Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 			
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASSWITHOUT GLASS			
DOUBLE 	N/A	N/A	N/A



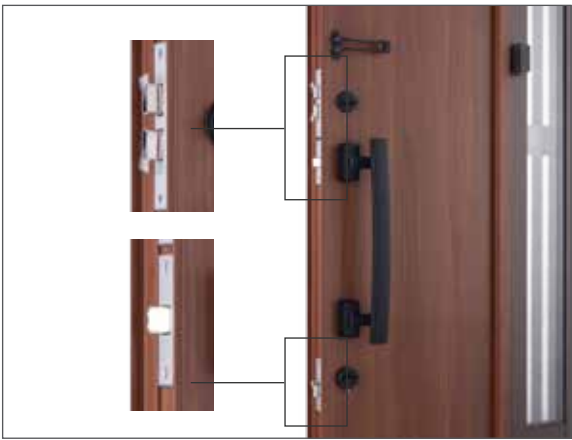
Aluminum Pattern	In-Swing (no sill)	In-Swing	Out-Swing
SINGLE 	N/A	N/A	N/A
WITH SIDELIGHT Width of sidelight [SW] 1034 < W 1248 : SW = 304 1249 < W 1438 : SW = 346  WITH GLASSWITHOUT GLASS	N/A	N/A	N/A
DOUBLE 	N/A	N/A	N/A

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

UNIQUE FEATURES



Push-Pull bar handle easy to operate just push or pull after unlock to open the door



2 locks that control 3 latches



Remove inside key head to prevent from unlock in case of burglary



Lock-unlock with ease with reversible key



Frame sealed with foam for watertight and anti-pinch



Door filled with insulation material for heat prevention and noise insulation



HANDLES

BAR HANDLE TYPE A  Outside Inside  BLAST SILVER  SILKY MATTE BLACK *Handle A and F will be inside out when apply with In-Swing door	BAR HANDLE TYPE F  Outside Inside  BLAST SILVER  SILKY MATTE BLACK *Handle A and F will be inside out when apply with In-Swing door	LEVER HANDLE TYPE K  Outside & Inside  SATIN GOLD  SILKY MATTE BLACK Apply for both Out-Swing and In-Swing door	LEVER HANDLE TYPE L  Outside & Inside  BLAST SILVER  SILKY MATTE BLACK Apply for both Out-Swing and In-Swing door
DIGITAL HANDLE  Outside Inside  SILVER  BLACK Apply for both Out-Swing and In-Swing door	DIGITAL HANDLE  Outside Inside  SILVER  BLACK Apply for Out-Swing door only	BAR HANDLE TYPE V  Inside Outside  SILVER  BLACK Apply for In-Swing door only	*Handle A and F will be inside out when apply with In-Swing door only.

ACCESSORIES

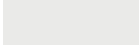
OUT-SWING DOOR

DOOR CLOSER




AUTUMN BROWN


SHINE GRAY


NATURAL WHITE

Aluminum

DOOR GUARD




BLAST SILVER


SATIN GOLD


SILKY MATTE BLACK

Aluminum

IN-SWING DOOR

DOOR CLOSER




AUTUMN BROWN


SHINE GRAY

Aluminum

DOOR GUARD




SILVER

Aluminum
*Apply for In-Swing door single type only

CYLINDER LOCK & KEY

CYLINDER LOCK


Outside


Inside

Thumbturn Cylinder
Construction Keys: 3
Owner Keys: 5


BLAST SILVER


SATIN GOLD


SILKY MATTE BLACK

Steel with resin coating



Link to Good Living

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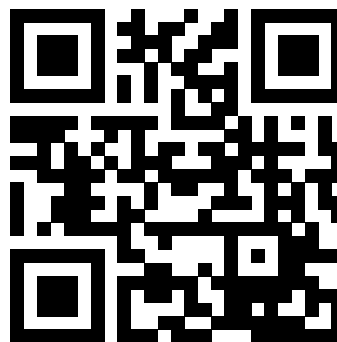
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