

NEXSTA-LTM

YKK
ap[®]

LOW - RISE 600 Pa

FOR GENERAL USER



YKK AP THAILAND

ENGLISH VERSION

2023

WWW.YKKAP.CO.TH

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CONCEPT



NEXSTA - New Generation of Luxury - is the latest innovation developed by YKK AP Indonesia by promoting tremendous quality performance and comfort.

It is exclusively developed based on consumers' high expectations.

By considering every aspect such as the environment, weather, climate, lifestyle, culture, and current situation, it was designed as high quality & high-performance product that has been strictly tested in terms of performance, safety.

Why NEXSTA?

It supports a wide range of applications.

Safety and quality are secured by the manufacturer, YKK AP Indonesia.

Excellent functionality and durability.

Parts are also produced by YKK AP.

CONCEPT



JAPAN QUALITY

-MADE IN INDONESIA-

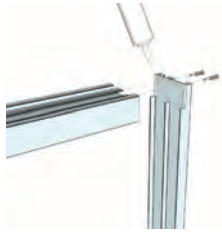
IN ALUMINUM WINDOW INDUSTRY, YKK AP
HAS AN INTEGRATED PRODUCTION SYSTEM TO PROCESS FROM RAW MATERIALS
TO PERFORMANCE TESTING AND INSPECTION.
WE CONFIDENTLY RECOMMEND OUR HIGH QUALITY PRODUCTS.

HIGH WATERPROOFNESS ACHIEVED BY YKK AP

To ensure there is no water leakage with windows is very important not only for your comfortable life but also for your value of the property. YKK AP make effort to achieve high waterproofness.

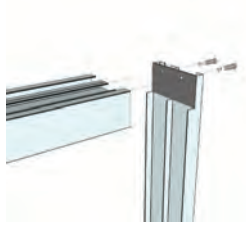
W Proof Joint

General metal joint (Bar window)



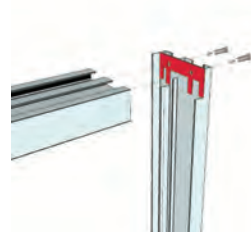
Sealant application after jointing

Normal metal joint (Other company FG)



Using a rubber Sealer pad
*Only Solid rubber

YKK AP performance products



Using a unique Sealer pad



Junction factor Water leakage ratio:
More than 10%
(API research)

Junction factor Water leakage ratio:
Less than 3%
(API research)

Junction factor Water leakage ratio:
Less than 1%
(API research)



*Product label



*Logo "W Proof Joint" expresses high Waterproofness by SAP technology. Trademark registration has been applied.

Secret of W Proof Joint



*SAP: Super Absorbent polymer using Japanese diaper technology. Sealer pad with SAP material will swell and securely fill the gap to achieve optimum water stopping performance.

Water Leakage Rate (Caused by Window Factors)

(*YKK AP's survey)

More than 10%

Less than 1%

General Bar Window

AP's Performance Window

- The water leakage rate of the bar window is 10% or more.
- The ratio is greatly reduced for bar windows with standardized waterproof parts.
- The risk of water leakage due to window factors is almost 0 for products processed by manufacturers.

Water Tightness Test at In-house Testing Center

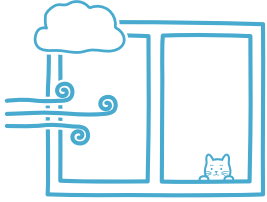
We test water tightness of our products in our own Testing Center, and confirm the performance before product delivery. In Indonesia, this test is possible only in YKK AP.



Test for Apartments / High Rise
200 Pa (Wind Speed = 18.1m/s) × 15 minutes

Test for Landed Houses / Low Rise
100 Pa (Wind Speed = 12.8m/s) × 15 minutes

BASIC PERFORMANCE



Structural (Wind Load)

Wind Pressure Resistance 600Pa
Deflection L/100

*Wide View Sliding SD/SE : 500 Pa
Deflection L/125

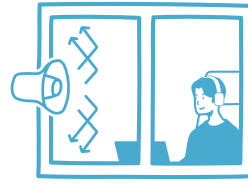
*Ventilation Door 1000 Pa
Deflection L/125



Water Tightness

Isobaric System Adaptable and
Water tightness
150 Pa (Standard Sliding)

*Please check information for
other window types..



Sound Insulation

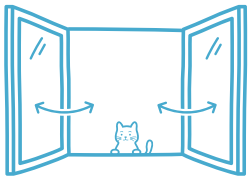
Sound proof and promote energy
saving
Grade T-1 (-25dB) and T-2(-30
dB)(JIS), Rw 24-30 (ISO)



Air Infiltration

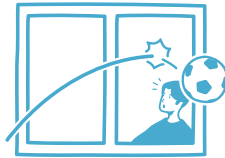
Dust-free and Airtight system
Grade A-4 (JIS)

* Ventilation Door
Grade A-2 (JIS)



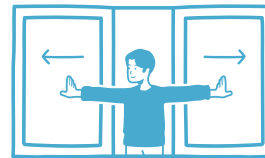
Open-Close Test

Surpass the 30.000 cycles of open
close test



Impact Resistance

Resistant to impact loads up to 30
kg Sand Bag and 170mm Drop
height



Opening Force

Smooth to Operate
Easy for Children



Double Glazing

Double glass to promote energy
saving
max 6 + A6 +6 mm
Glass Groove
18 & 22 mm : Sliding
24 mm : Fixes, Casement, etc
26 mm : Folding Door Terrace
Type, and others



House

10 m (3 Stories)

Indonesia: SNI 03-0573

House: 503 Pa (10m)

Condominium: 1211 Pa (160m)

Environmental condition level 2 $v=30$ m/s
Category III: The state there are many obstacles on the
ground surface: small town, large suburban areas.

Malaysia: MS 1553

House: 616 Pa (10m)

Condominium: 1308 Pa (150m)

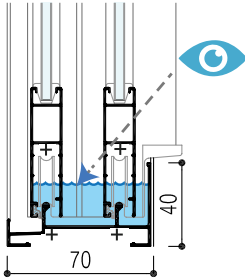
Basic wind speed $V_s=33.5$ m/s (Kuala Lumpur)
Category 3: Terrain with numerous closely spaced
obstructions 3.0 m to 5.0 m high such as area of
suburban housing.

Setting Basic Wind Load for NEXSTA is at 1600Pa based on the criteria of 4 countries.
Positive pressure at building facade with many windows.

BASIC PERFORMANCE

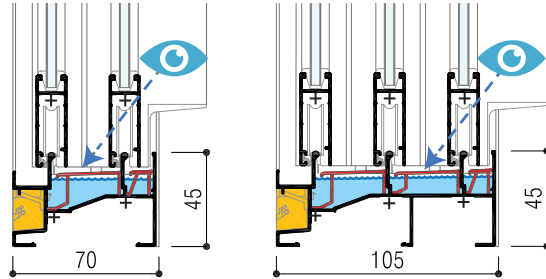
WATER TIGHTNESS

Common Sliding



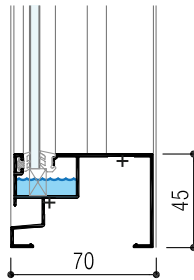
During the rain, water will be accumulated in Bottom Sill, and the water could be seen from inside because of the adopted water head system

NEXSTA Sliding



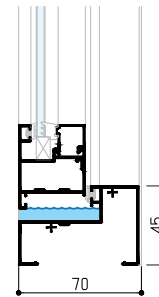
Bottom Sill with cover that makes the water could not be seen up to 200 Pa level.

NEXSTA Fix



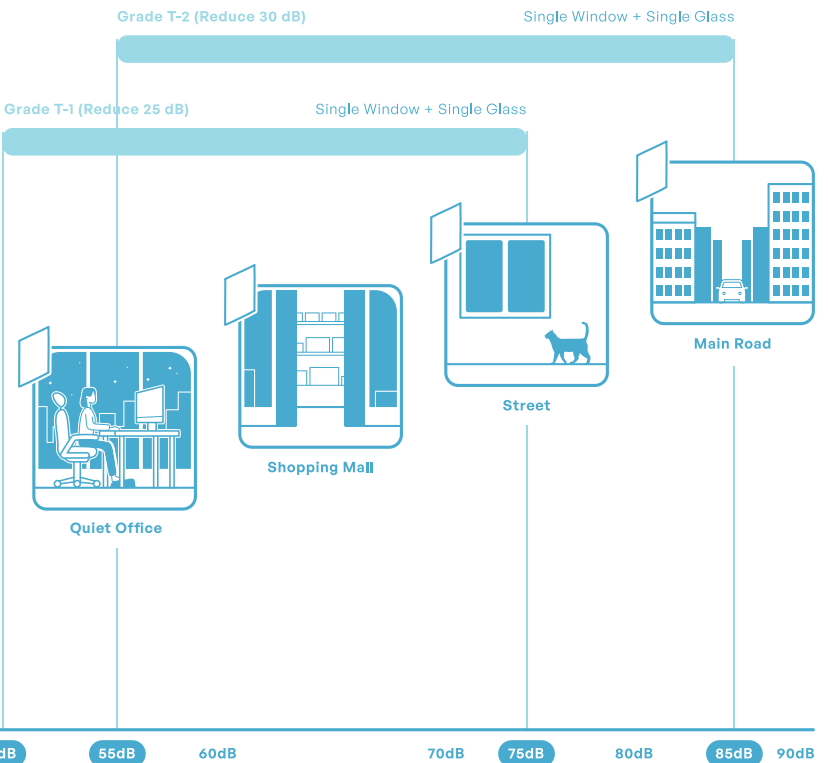
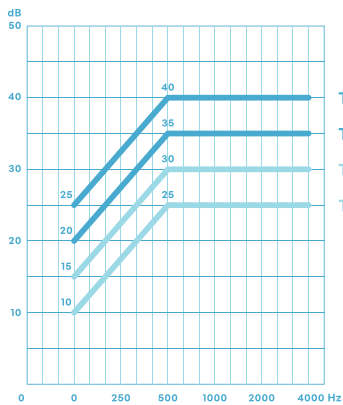
Adopting Isobaric System as an improved system to substitute the use of drain valve.

NEXSTA Top Hung & Casement



Adopting Isobaric System.

SOUND INSULATION



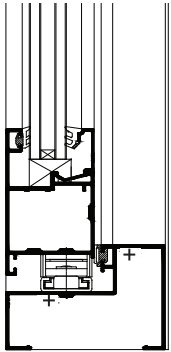
GREEN BUILDING CONCEPT

Modern living that adopts pro green manner means practical, sensible and enable to obtain great saving on energy. Thus energy consumption shall be moderately minimized by preserve natural lighting and thermal reduction that would promote healthy environment.

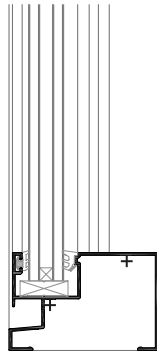


DOUBLE GLAZING

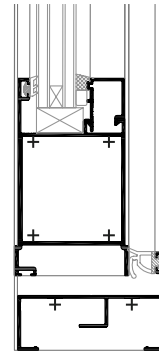
Casement, Top Hung and Door
Glass Groove : 24 mm



Fix
Glass Groove : 24 mm

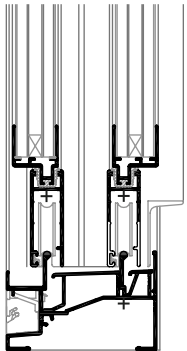


LS Type
Casement, Top Hung and Door
Glass Groove : 26 mm

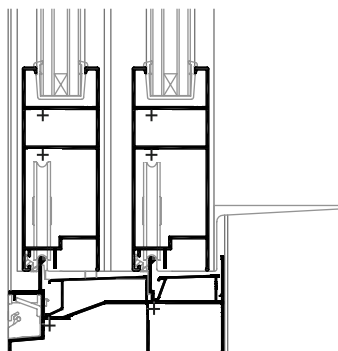


(Inside) Gasket
(Outside) Sealant

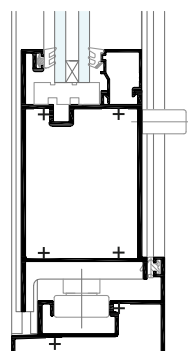
Sliding
Glass Groove : 18 mm



Wide View Sliding
Glass Groove : 22 mm




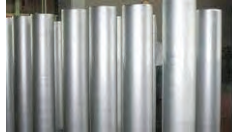




Folding Door Terrace Type
Glass Groove : 26 mm








INTEGRATED MANUFACTURING

YKK AP Indonesia is the only company in Indonesia that has all the functions to make windows.

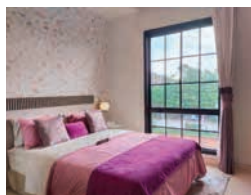
R&D Center	Testing Center	Anodizing/Coating	Fabrication
 <ul style="list-style-type: none"> • Climate observation with BMKG • Collaboratively study with PUPR, ITB, and Japanese Univ. 	 <ul style="list-style-type: none"> • The only facility in Indonesia • All Products are tested here (Performance, Durability, Safety etc.) 	 <ul style="list-style-type: none"> • The only factory in Indonesia that can produce Anodized Composite Coatings (Anodize Plus) 	 <ul style="list-style-type: none"> • Accurate processing and parts attachment based on Japanese technology and machinery
Product Development	Alloy Casting	Extrusion	Field Technical Service
 <ul style="list-style-type: none"> • PD focus on Indonesia based on the research 	 <ul style="list-style-type: none"> • Casting mainly from domestic raw materials 	 <ul style="list-style-type: none"> • High Quality by Japan made extruder 	 <ul style="list-style-type: none"> • FTS(Site inspection, DIS training, etc.) by Experienced staff

STANDARD COLORS

	Powder Coating re-paint OK	Anodize + resistant to rain and UV
 <p>White/Ivory</p>	TW02	
 <p>Light Gray /Champagne</p>	<p>TT18 Sea Shell Off (White)</p> <p>TT06 Champagne Gold</p>	<p>YS1N Matte Silver</p> <p>YH1N Light Champagne Gold</p> <p>YH3N Deep Champagne Gold</p>
 <p>Deep Gray</p>	<p>TT10 Dusty Grey</p> <p>TB80 Charcoal Grey</p>	
 <p>Brown</p>	TT16 Autumn Brown	<p>YB1C Glossy Brown</p> <p>YB1N Matte Brown</p>
 <p>Black</p>	<p>TK10 Onyx</p> <p>TT03 Black Space</p>	<p>YB5N Red Black</p> <p>YK1N Matte Black</p>



GRAY



BLACK



WHITE

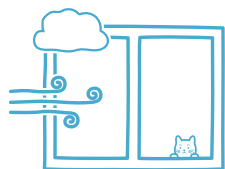


BROWN



CHAMPAGNE

STANDARD SLIDING



Structural (Wind Load)

600 Pa
Deflection
L/100



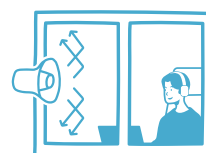
Water Tightness

150 pa



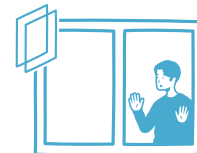
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)



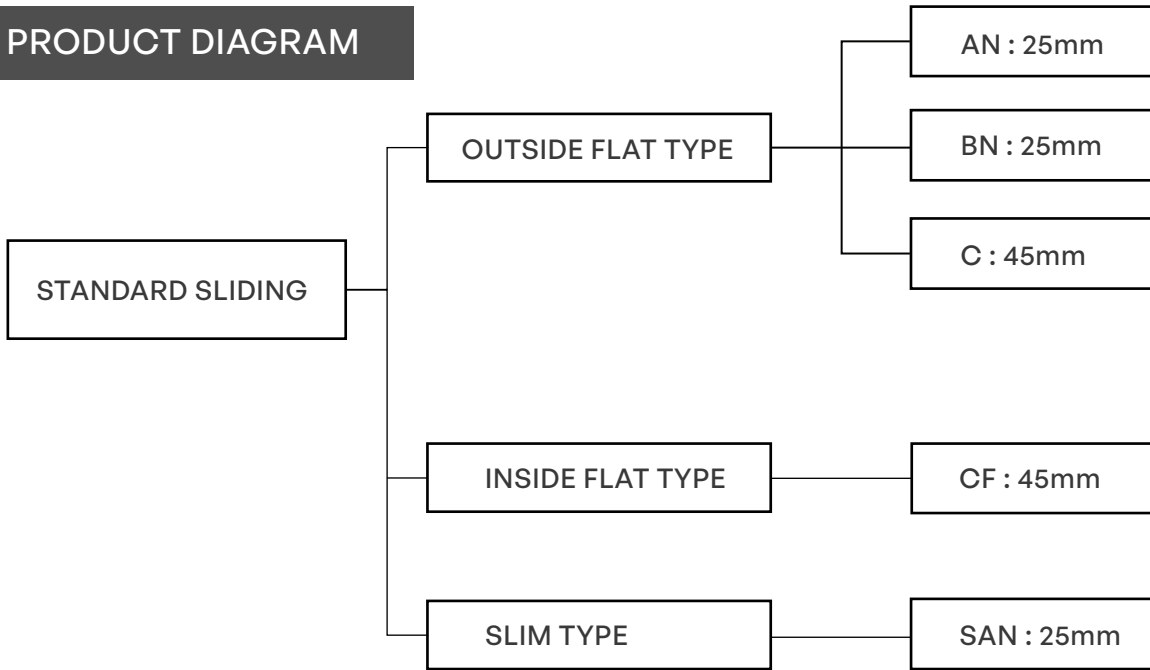
Double Glazing



* High Sound Insulation Type

STANDARD SLIDING

PRODUCT DIAGRAM



H	Depth 70
3.0m ↕ 2.0m	 Slim SAN C CF Inside Flat
2.0m ↕	 AN BN

A : Small window B : Small window
 C : Standard Terrace Window D : Large Terrace Window
 Corresponding height changes depending on the wind pressure

VARIATION OF LEAVES



Sliding 2 Leaves



Sliding 3 Leaves



Sliding 4 Leaves



Sliding 6 Leaves

STANDARD SLIDING

FEATURES

Safety

• Safety Cap

Inside upper cap and Outside bottom cap are the standard setting to prevent from any harm that might occur.



Inside upper cap



Outside bottom cap

• Inner Stopper

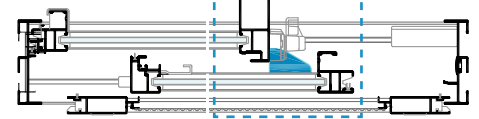
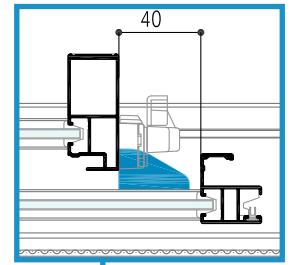
Upper inner stopper and Bottom inner stopper are the standard setting to prevent users from injury when opening the window.



Upper stopper

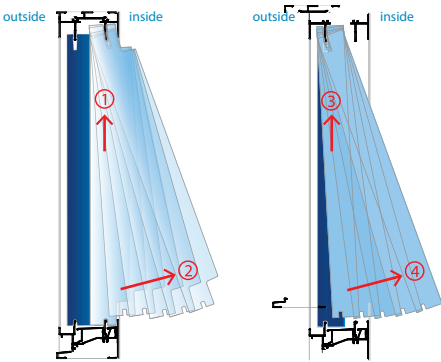


Bottom stopper



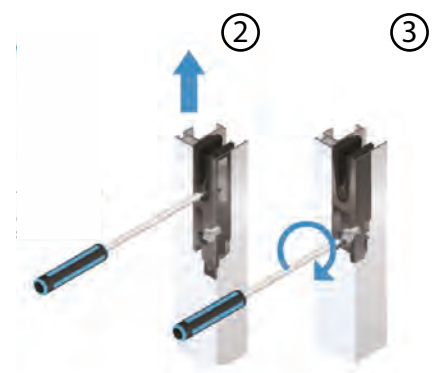
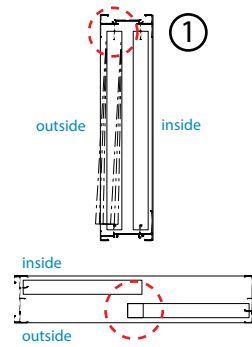
• Able to be Installed from Inside

The inner frame can be removed safely from the inside for installation and maintenance.



• Inner Stopper

Latch is set at the top of inner frame as the standard to prevent track from jumping out.



Security

• Crescent with False Locking Prevention

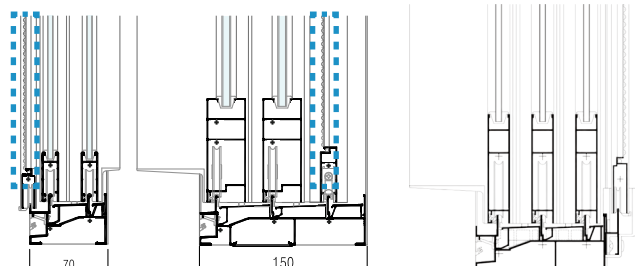
The lock function will work properly and effectively with this setting.



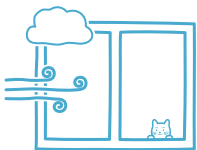
Insect Screen

• Sliding 2 Tracks and 3 Track

This setting will protect from any insect disturbance and promote clear view through window.



WIDE VIEW SLIDING



Structural (Wind Load)

Square
600 Pa
Deflection L/100

Round
500 Pa
Deflection L/125



Water Tightness

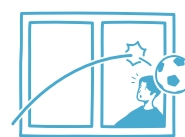
Square
250 Pa

Round
75 Pa



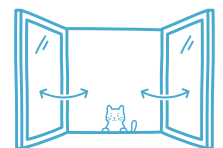
Air Infiltration

Grade A-4 (JIS)



Impact Resistance

30 kg sand bag from
170mm drop Height

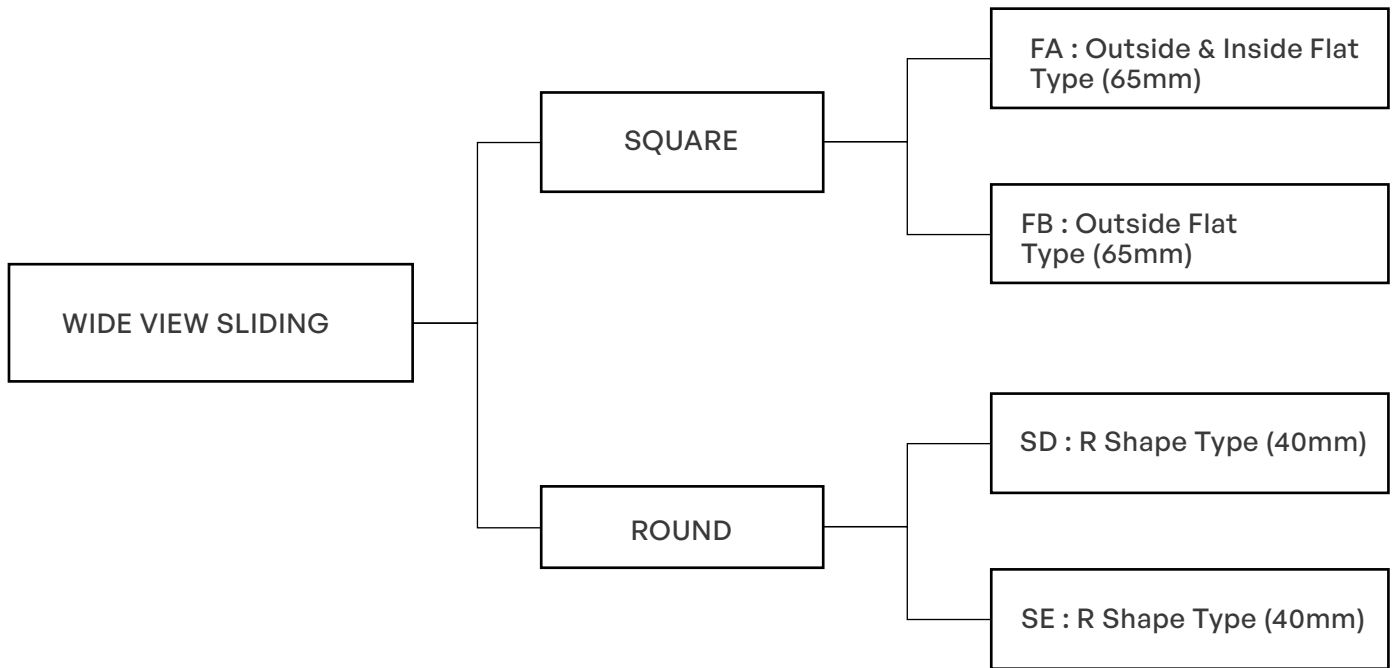


Open-close Test

30,000 cycle
depends on item

WIDE VIEW SLIDING

PRODUCT DIAGRAM



VARIATION OF LEAVES

FA & FB

Sliding 2 Leaves



Sliding 3 Leaves



Sliding 4 Leaves



Sliding 6 Leaves



SD & SE

Sliding 2 Leaves



Sliding 3 Leaves



Sliding 4 Leaves



WIDE VIEW SLIDING

FEATURES



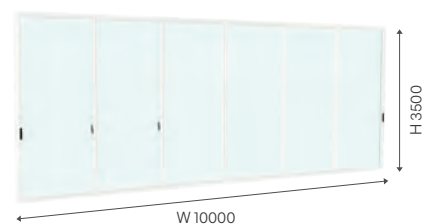
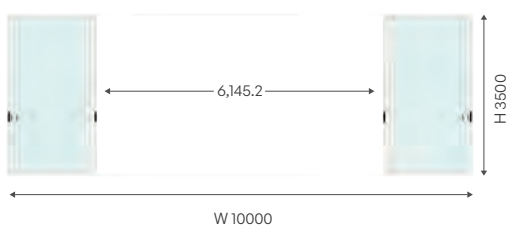
Slim And Round Profile

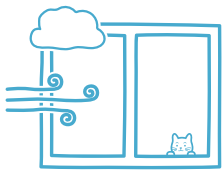


Multipoint Lock System With Single Motion

WIDE OPENING

Largest opening among the series, which is W8000×H4000 (4 Leaves) and W10000×H3500 (6 Leaves)





Structural (Wind Load)

600 Pa
Deflection
L/100



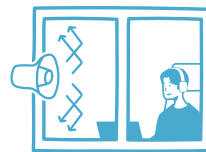
Water Tightness

Square
500 Pa
R-Type
180 Pa



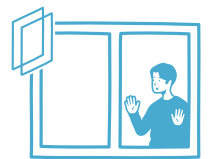
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw 24 - 30 (ISO)

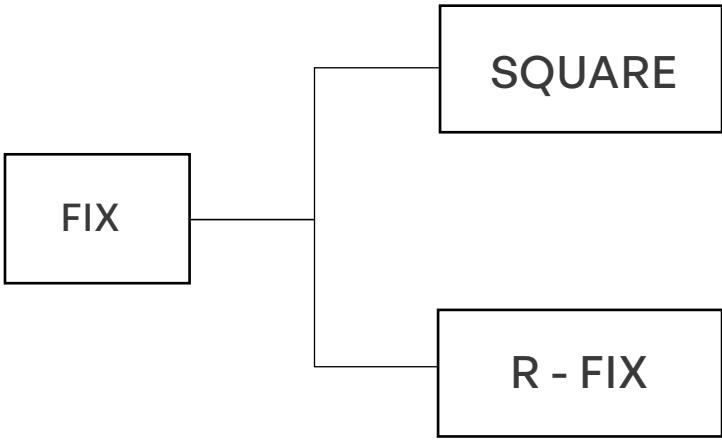


Double Glazing



FIX

PRODUCT DIAGRAM



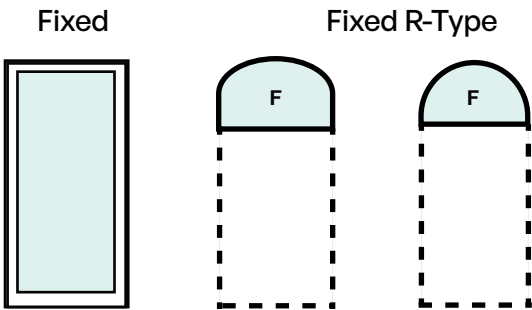
SQUARE



R - FIX

FEATURES

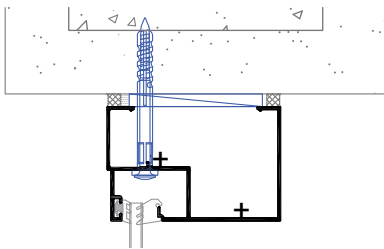
Variation



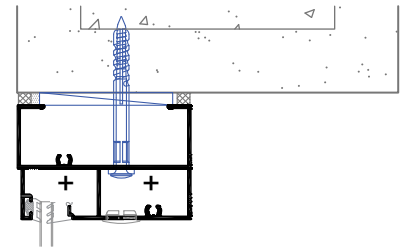
Detail of Profile Combination



Installation

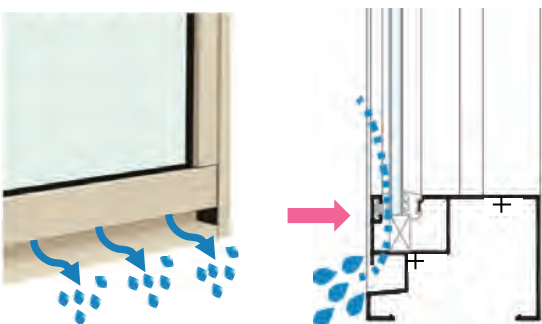


Flat Installation



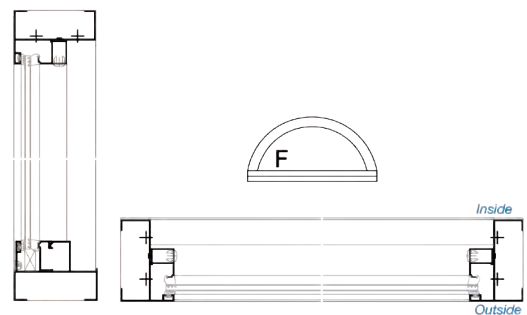
Relief

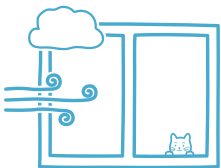
Isobaric System is adopted as water tightness improvement, and drain valve is no longer required.



Flat & Round Design

Flat design for simple set-up. Advanced design for better function.





Structural (Wind Load)

600 Pa
Deflection
L/100



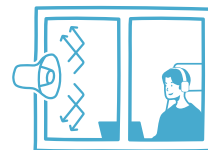
Water Tightness

A,B Type 350 Pa
LS Type 200 Pa



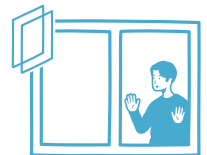
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw 24 - 30 (ISO)

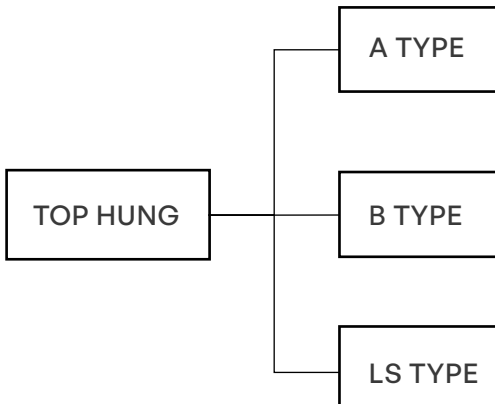


Double Glazing



TOP HUNG

PRODUCT DIAGRAM



VARIATION

A, B, LS TYPE

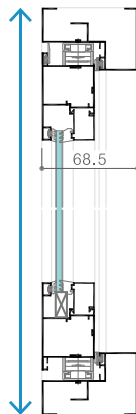


FEATURES

Design

- **Flat Design**

The glass is flat aligned with front side of window.



Operability

- **Handle**

The window panes can be closed perfectly for your safety.



Multipoint Lock Handle
[70: B Type and 70LS: LS Type]



Cam Latch Handle
[70: A and B Type]

Safety

- **Arm Stopper**

When the window is open wide, the stopper is set up to prevent the window from flapping in strong wind.



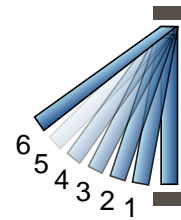
- **Friction Stay**

Friction stay is set as standard for safety



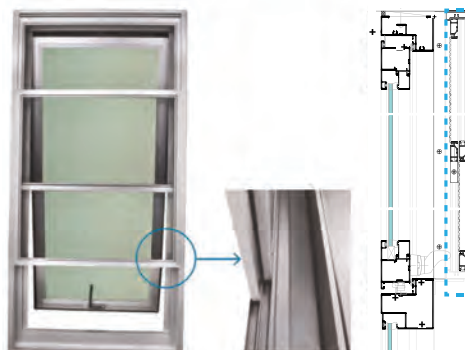
- **6 Step Arm Stopper A & B Type (Option)**

Enable to adjust the opening angle 6 levels to control the air flowing.



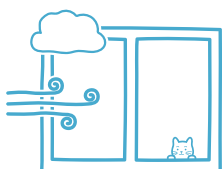
Double Hung (Vertical) Insect Screen

Possible to install Double Hung (Vertical Slide) Insect Screen to get both air ventilation and insect prevention. Installation works either way directly to wall or at the sash frame.



This insect screen can also be use for Casement

HIGH VENTILATION WINDOW



Structural (Wind Load)

600 Pa
Deflection
L/100



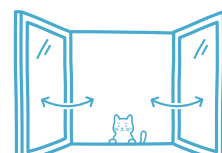
Water Tightness

75 Pa



Air Infiltration

Grade A - 4(JIS)



Open-close Test

30,000 cycle
depends on item

HIGH VENTILATION WINDOW

PRODUCT DIAGRAM



VARIATION

A TYPE ONLY



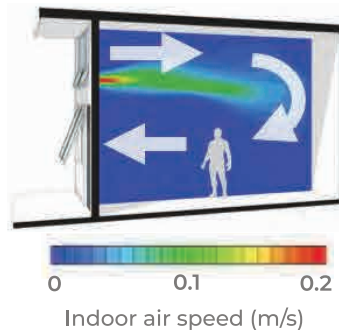
ENHANCE VENTILATION, CREATE WELLNESS AT YOUR HOME

Through YKK AP's research and development, we ensure that the high ventilation window provides optimum benefits to our customer. The operable window at high position can increase the ventilation performance by up to three times higher if compared with non-operable one.



Typical Window
 - Upper window is fix window
 - Poor ventilation performance

General Windows



Combined with High Ventilation Window

Ventilation Effectivity 3.45x

Air Change Rate³ 0.37 times/hour Air Change

Air Change Rate³ 1.66 times/hour 345 ▲ 345%



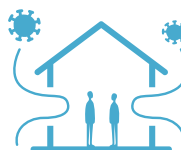
The airflow moving slowly, even almost not moving at all



Faster airflow helps to cool the indoor space as well as the occupants, thus improves the thermal comfort.



Less air changing makes the room air saturated, cannot push viruses and bacteria away from the room.

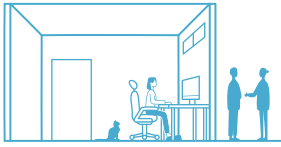


The increased air change rate brings in more fresh air inside and pushes away pollutants and dirty air from the room.

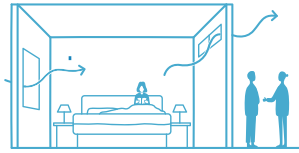
HIGH VENTILATION WINDOW

VARIOUS APPLICATIONS OF HIGH VENTILATION WINDOW IN YOUR BUILDING

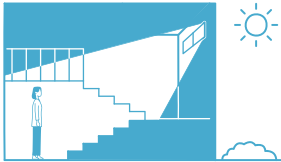
In study room (for privacy)



In bedroom (for privacy)



Provide daylight in stair space



Improve air quality



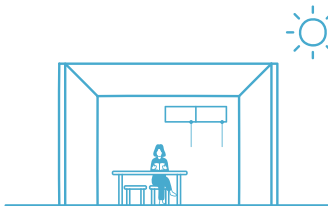
× notes :

1. The performance verification for NEXSTA High Ventilation Window was supported by YKK AP R&D Center (Indonesia).
2. Outdoor wind speed of 2 m/s represents the average wind speed during the daytime in most cities in Indonesia.
3. Air change rate or ventilation rate, is a measure of the number of air changes that occur within one hour in a room.

EASIER TO OPERATE AND SAFER FOR YOUR LOVABLE ONES WITH OUR SPECIAL PARTS

PRODUCT VARIATION :

I. Loopless Chain Type



The high position window makes your room more spacious and brighter.

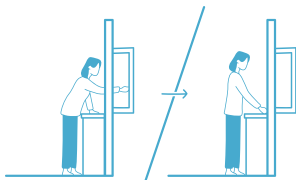


A common high-position window is difficult to open or close due to its unreachable position. The loopless chain system provides easier and safer window operation



Adjustable wire length up to 3.5m

II. Operator Handle Type



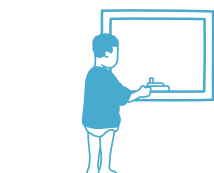
Easy And Safe

Even in the hard to reach places the operation is easy



Easy to Operate

The direction of rotation differs depending on the opening



Save For Kids

It is safe for children, no helper needed



Free From Insect (Optional)

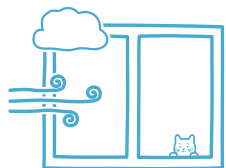
The window can be opened and closed without opening the attached insect screen



Easy to Operate

It is easy for children to operate

CASEMENT



Structural (Wind Load)

600 Pa
Deflection
L/100



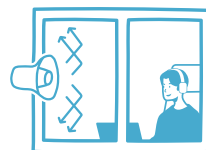
Water Tightness

350 pa



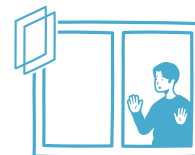
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)

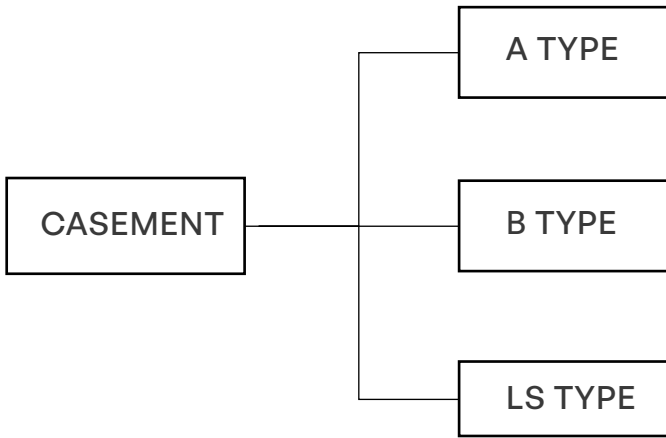


Double Glazing



CASEMENT

PRODUCT DIAGRAM



VARIATION

Single Swing
(Right Hand / Left Hand)



Double Swing



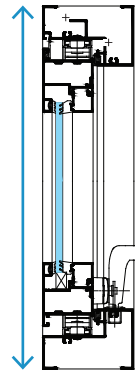
FEATURES

Design



- **Clear Design**

Clear design with no muntin for Double Casement.



- **Flat Design**

The glass is flat aligned with front side of window frame.

Safety



Unlock position

- **Safety Stopper**

Safety stopper restricts the opening to less than 110 mm, to avoid unexpected accidents by children.



Locked

- **Child Lock**

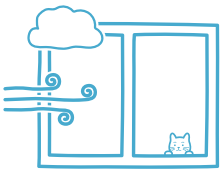
Prevent children from releasing the safety stopper



- **Friction Stay**

Enables the panel to be opened to 90°, cleaning the glass from indoor can be done easily and safely.

BUTT HINGED DOOR



Structural (Wind Load)

600 Pa
Deflection
L/100



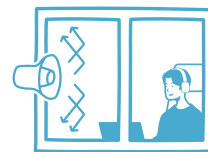
Water Tightness

150 pa



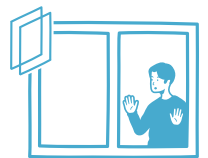
Air Infiltration

Grade A - 4(JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)



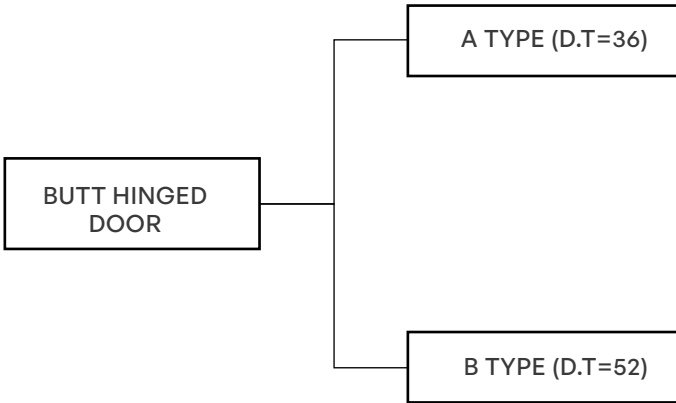
Double Glazing



**Without Bottom Sill* has no performance of Water Tightness, Air Infiltration, and Sound Insulation.

BUTT HINGED DOOR

PRODUCT DIAGRAM



VARIATION

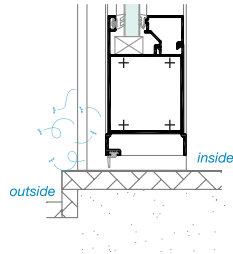
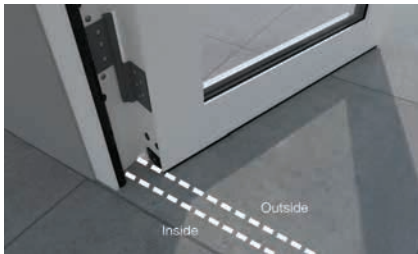
Single Swing
(Right Hand / Left Hand
Inswing / Outswing)

Double Swing
(Inswing / Outswing)



FEATURES

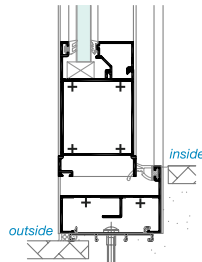
Reliable Performance



• Without Bottom Sill

Can prevent you from insect and dust to come in.

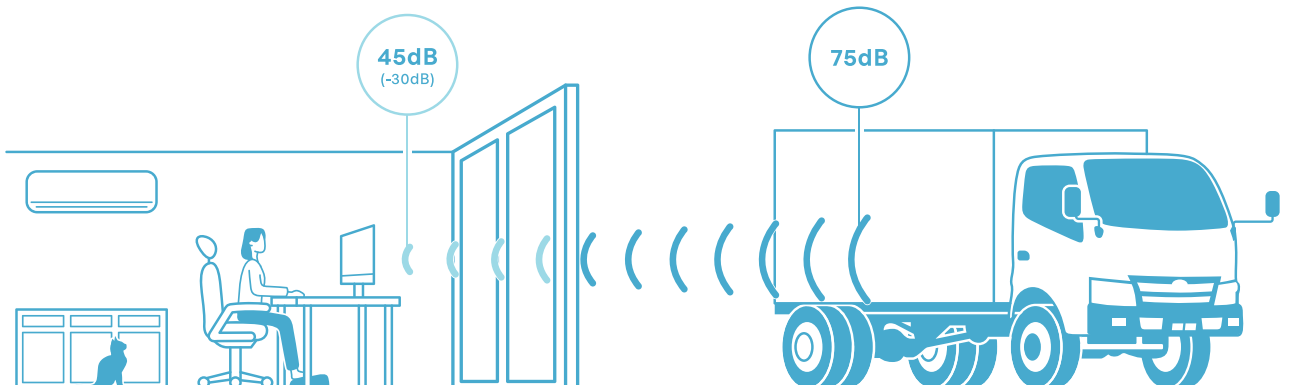
*"Without Sill" has no performance of Water Tightness, Air Infiltration, and Sound Insulation.



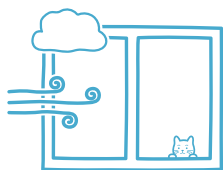
• Nexsta (with Bottom Sill)

Higher performance benefits such as water tightness, air infiltration, sound insulation, prevent insect and dust.

Reduce the noise 25 dB (T-1) or 30 dB (T-2)



VENTILATION DOOR



Structural (Wind Load)

1000 Pa
Deflection
L/125



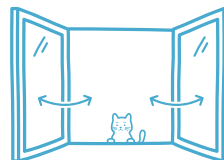
Water Tightness

50 pa



Air Infiltration

Grade A - 2(JIS)



Open-close Test

JIS A 1550
100,000 cycle



VENTILATION DOOR

PRODUCT DIAGRAM



VARIATION

Single Swing Outswing
(Right Hand / Left Hand)



Composite Window



VENTILATION DOOR

FEATURES

Environmental Friendly Design

• Energy Saving (Green Building Concept)

Ventilation door is originally designed to adopt the Green Building Concept such as Energy Saving by letting the air fresh in, enable to maximize the usage of natural lighting and many other benefits.



Double Hung windows are mounted inside, allowing ventilation while the door is closed.

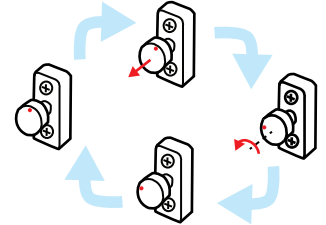
* Available 3 locking positions.



Safety & Security

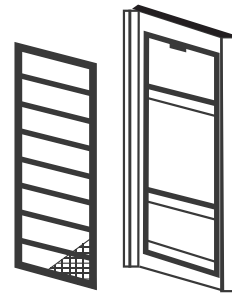
Prevent from damage from strong wind and crime at night and insect disturbance.

Put hand under the catch & push along the track while pulling the knob.



Easy Maintenance and Operability

Open the sliding pane, release screw in the center of upper frame from inside, pulling grille upward. For installation, do the procedure in the opposite way.



Reliable Performance

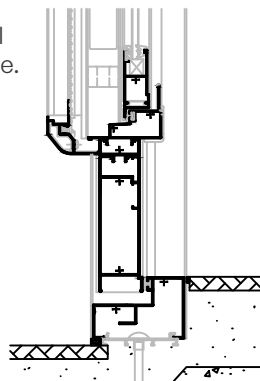
Usage Glass	Single Glass 5 mm
Max size	W 900 mm x H 2200 mm

*Wide size minimum 600 mm

Reliable Performance

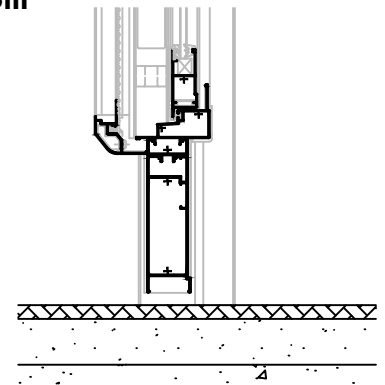
• With Bottom Sill

Performance is secured by the Bottom Sill to prevent inside space from water leakage.

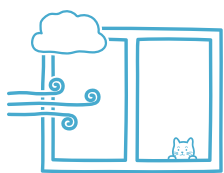


Provided with Bottom Sill to prevent water and dust leak inside

• Without Bottom Sill



FOLDING DOOR



Structural (Wind Load)

600 Pa
Deflection
L/100



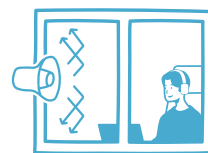
Water Tightness

Standard
350 Pa
Strong
100Pa



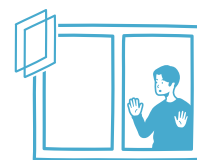
Air Infiltration

Grade A - 4 (JIS)



Sound Insulation

T - 1 (-25 dB)(JIS)
T - 2 (-30 dB)(JIS)
Rw24 - 30 (ISO)

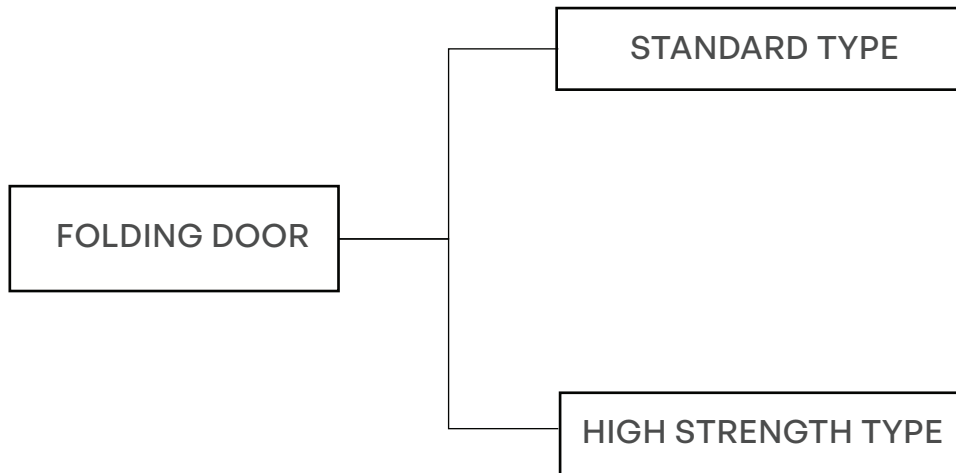


Double Glazing



FOLDING DOOR

PRODUCT DIAGRAM



LEAVES AND OPENING VARIATION

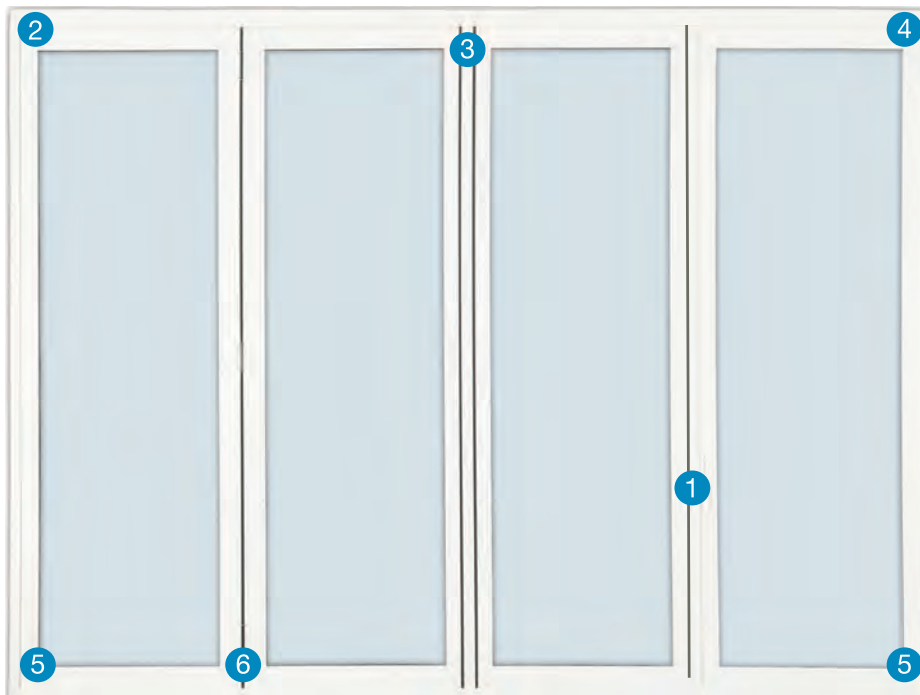
→ WIDE

	0R	1R	2R	3R	4R	5R	6R	7R	8R
0L									
1L									
2L									
3L									
4L									
5L									
6L									
7L									
8L									

↓ WIDE

FOLDING DOOR

FEATURES



Design

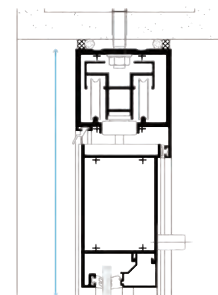
Slim Handle



Neat Frame



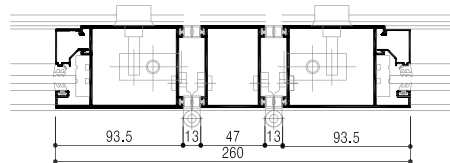
Inner frame in a line



Performance and Workability

• High Strength Inner Frame Setting

Support large opening, support anti typhoon strength



• Hanger Roller

Ensure the smoothness and durable against heavy duty.



• Weep Hole

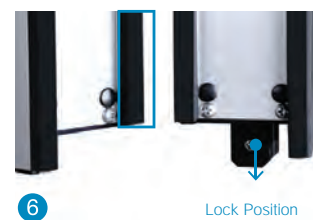
It will not be soaking wet and pleck the drainage thanks to weep hole.



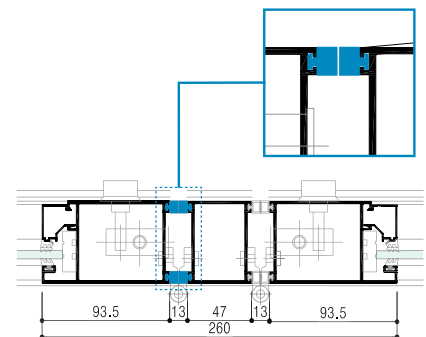
Safety and Security

• Weather-Strip & Multipoint Lock

Weather-strip is provided to ensure air infiltration and safety for fingers. The multipoint lock on top and baller with one stroke ensure security for your home.



Lock Position



BOVENLICHT & LOUVER

Bovenlicht

Bovenlicht provides an airy feel and luminous light.

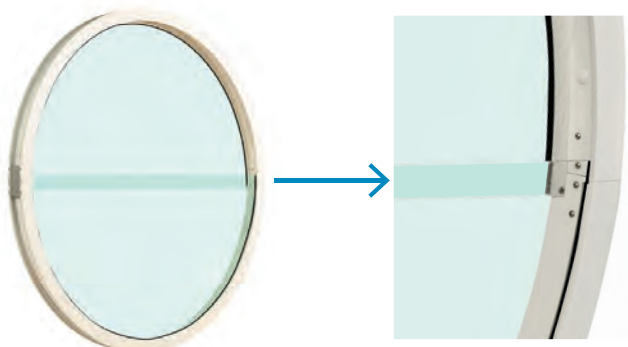


Louver

Louver brings an additions air circulation and insect screen.



Round Type

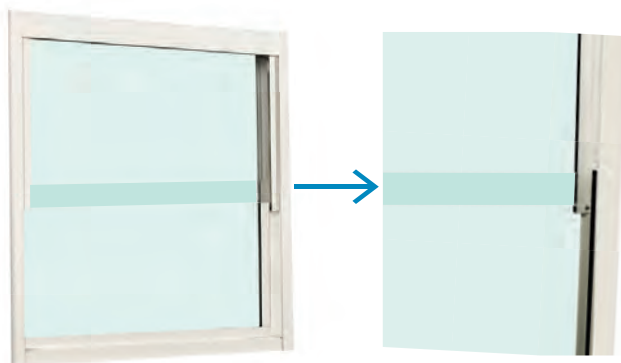


Inside



Inside

Square Type



Inside








Outside

COMMON OPTION LATTICE



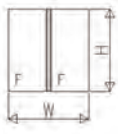
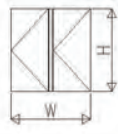
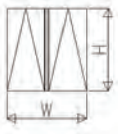
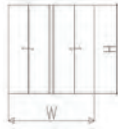
VARIATION

		FRAME TYPE				
						
		Trapezoid	Decorative	Flat	Stick on Glass Flat	Bevelled
Standard Sliding					●	
Wide View Sliding					●	
Top Hung	A,B-Type	●	●	●	●	●
	LS-Type	●	●	●	●	
Casement	A,B-Type	●	●	●	●	○
	LS-Type	●	●	●	●	
Fix		●	●	●	●	
Door		●	●	●	●	
Folding Door		●	●	●	●	

● Available ○ Available, glazing with sealant

COMMON OPTION MULLION

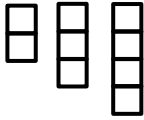
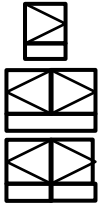

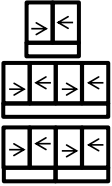
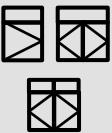
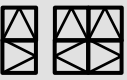


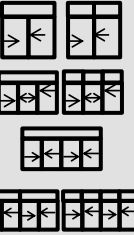
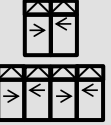
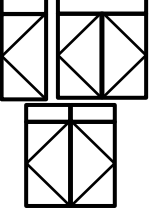

VARIATION

		Variation			
					
		Fix-Fix	Casement-Casement	Top Hung-Top Hung	Sliding-Sliding
Standard-Type		●	●	●	●
Strong-Type		●	●	●	●

● Available

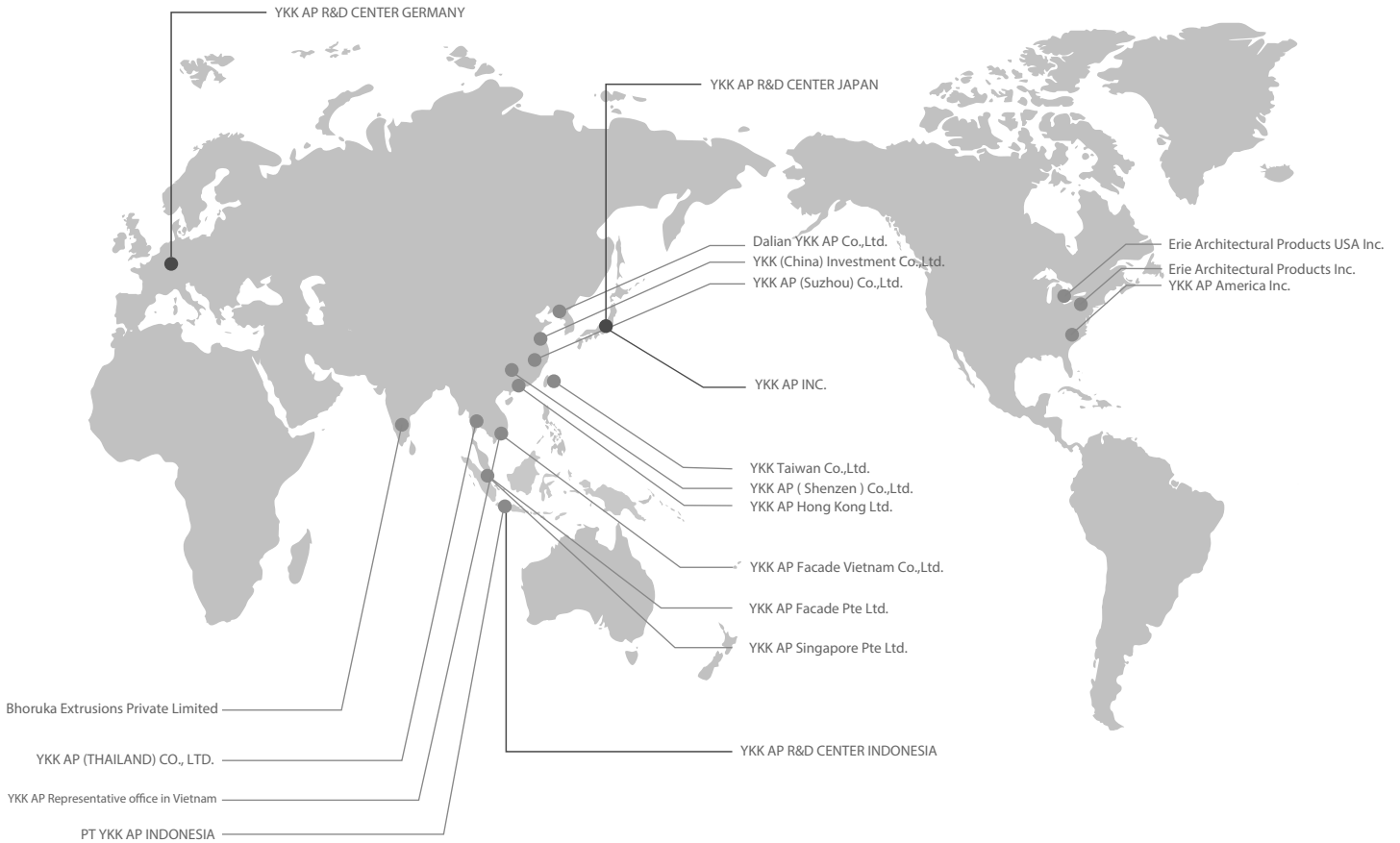
COMMON OPTION TRANSOM

VARIATION

		Upper			
		Fix	Casement	Top hung	Sliding
Lower	Fix				
	Casement				
	Top hung				
	Sliding				
	Door				

● Samples in this catalog

YKK AP AND YKK AP R&D CENTER GLOBAL NETWORK



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