



# LOW - RISE 600 Pa



#### PT YKK AP INDONESIA

**ENGLISH VERSION** 

**DEC 2023** 



### **JAPAN QUALITY**

-MADE IN INDONESIA-

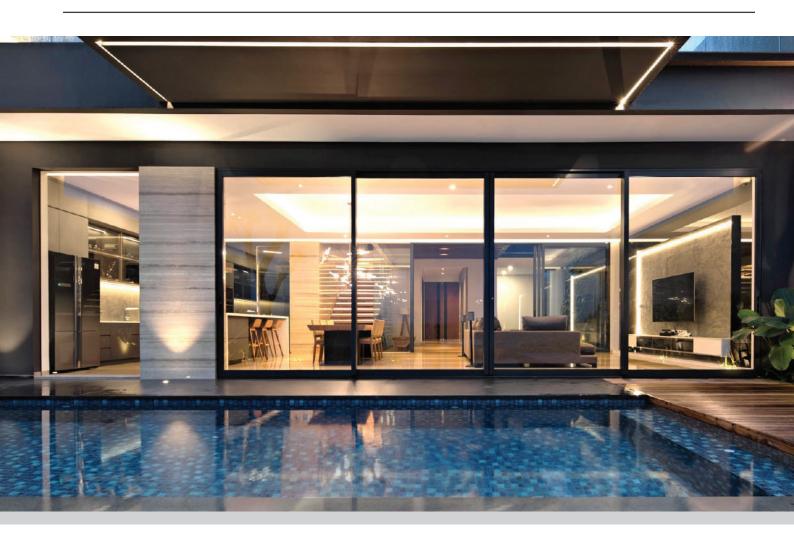
IN INDONESIA'S ALUMINUM WINDOW INDUSTRY, ONLY YKK AP INDONESIA HAS AN INTEGRATED PRODUCTION SYSTEM TO PROCESS FROM RAW MATERIALS TO PERFORMANCE TESTING AND INSPECTION.

WE CONFIDENTLY RECOMMEND OUR PRODUCTS.

# **TABLE OF CONTENTS**

SERIES DIAGRAM		1					
CONCEPT		2					
WATER PROOFNESS PERFORMANCE GREEN BUILDING CONCEPT							
					INTEGRATED MANUFACTURI	NG	9
	STANDARD SLIDING SLIDING	11					
	WIDE VIEW SLIDING	15					
	FIX	19					
	TOP HUNG	23					
	HUNG HIGH VENTILATION WINDOW	<u>v</u> 27					
NEXSTA series	CASEMENT	31					
	BUTT HINGED DOOR DOOR	35					
	VENTILATION DOOR	39					
	FOLDING DOOR	43					
	BOVENLICHT	47					
	LOUVER	47					
	LATTICE	48					
Common	MULLION	49					
	TRANSOM	50					

### CONCEPT

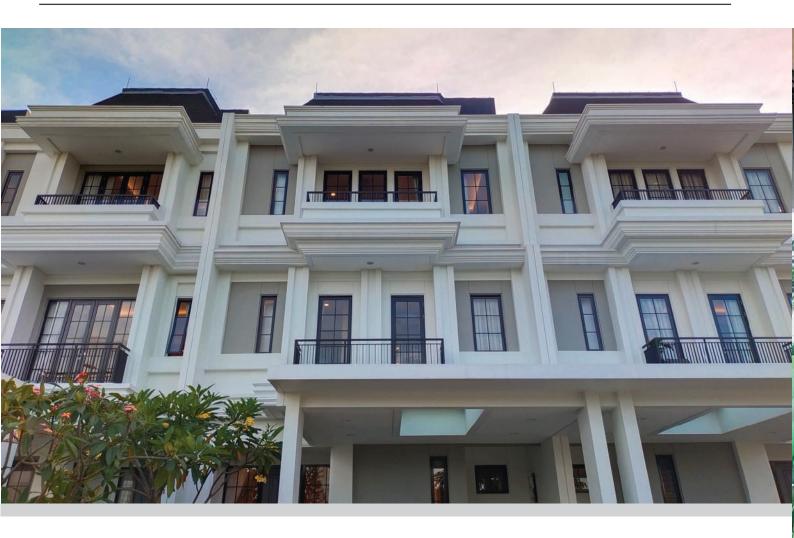


NEXSTA - New Generation of Luxury - is the latest innovation developed by YKK AP Indonesia by promoting tremendous quality performance and comfort.

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.

# CONCEPT



# 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 NEXSTA W

# CONCEPT



# 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)



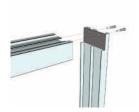
Sealant application after jointing

Junction factor Water leakage ratio:

More than 10%

(API research)

# Normal metal joint (Other company FG)



Using a rubber Sealer pad
\*Only Solid rubber

Junction factor Water leakage ratio:

Less than 3%

(API research)

#### YKK AP performance products



Junction factor Water leakage ratio:

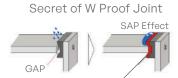
Less than 1%

(API research)



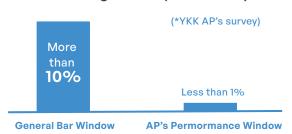


\*Logo "W Proof Joint" expresses high Waterproofness by SAP technology. Trademark registration has been applied.



\*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)



- O The water leakage rate of the bar window is 10% or more.
- O 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.

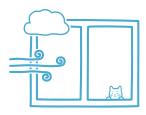




Test for Apartments / High Rise 200 Pa (Wind Speed = 18.1m/s) × 15 minutes

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**

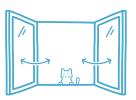
Sound proof and promote energy saving Grade T-1 (-25dB) andT-2(-30 dB)(JIS), Rw 24-30 (ISO)



#### 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)

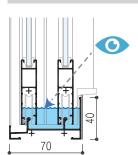
Basic wind speed Vs=33.5 m/s (Kuala Lumpur) Category 3: Terrain with numerous closely spaced obstructions 3.0 m to 5.0 m high such as area of suburban housing.

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

# **BASIC PERFORMANCE**

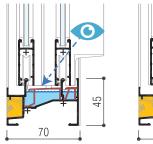
### **WATER TIGHTNESS**

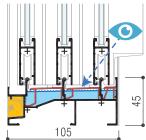
#### **Common Sliding**



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

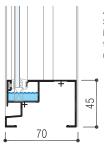
#### **NEXSTA Sliding**





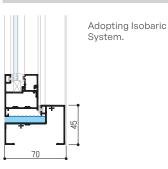
Bottom Sill with cover that makes the water could not be seen up to 200  $\mbox{\rm Pa}$  level.

#### **NEXSTA Fix**

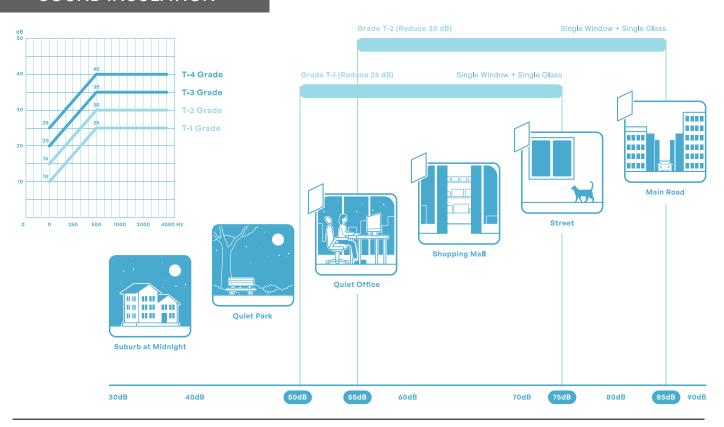


Adopting Isobaric System as an improved system to substitute the use of drain valve.

#### **NEXSTA Top Hung & Casement**



### **SOUND INSULATION**



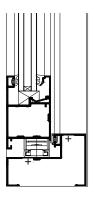
# **GREEN BUILDING CONCEPT**

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.

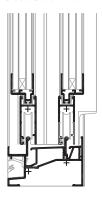


### **DOUBLE GLAZING**

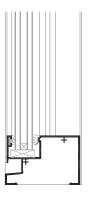
Casement, Top Hung and Door Glass Groove : 24 mm



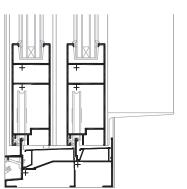
Sliding Glass Groove: 18 mm



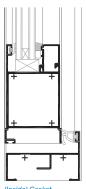
Fix Glass Groove: 24 mm



Wide View Sliding Glass Groove: 22 mm

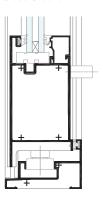


LS Type Casement, Top Hung and Door Glass Groove : 26 mm



(Inside) Gasket (Outside) Sealant

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.

# that has all the functions to make windows.

#### **R&D Center**

- •Climate observation with BMKG •Collaboratively study
- •Collaboratively study with PUPR, ITB, and Japanese Univ.

#### **Testing Center**



- •The only facility in Indonesia
- · All Products are tested here (Performance, Durability, Safety etc.)

#### **Anodizing/Coating**



•The only factory in Indonesia that can produce Anodized Composite Coatings (Anodize Plus)

#### **Fabrication**



·Accurate processing and parts attachment based on Japanese technology and machinery

#### **Product Development**



•PD focus on Indonesia based on the research

#### **Alloy Casting**



•Casting mainly from domestic raw materials

#### Extrusion



·High Quality by Japan made extruder

#### Field Technical Service

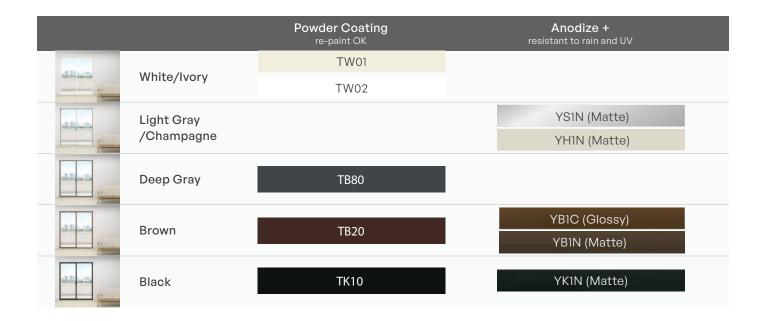


•FTS(Site inspection, DIS training, etc.) by Experienced staff

Manufacturing NE XSTA WKK

### INTEGRATED MANUFACTURING

### STANDARD COLORS



GRAY BLACK









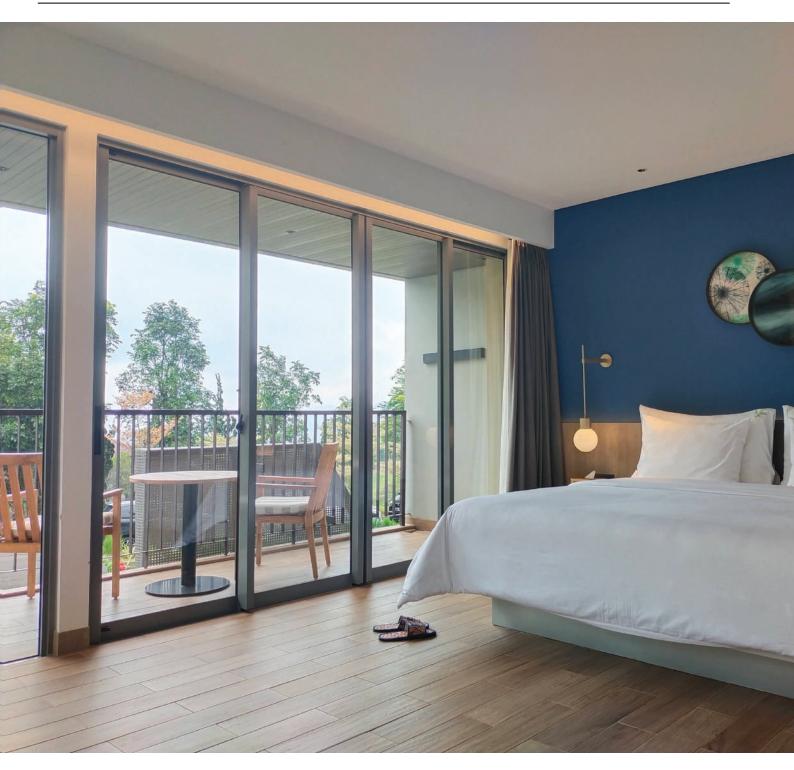


10

WHITE BROWN CHAMPAGNE

NE XSTA W Manufacturing

# 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)



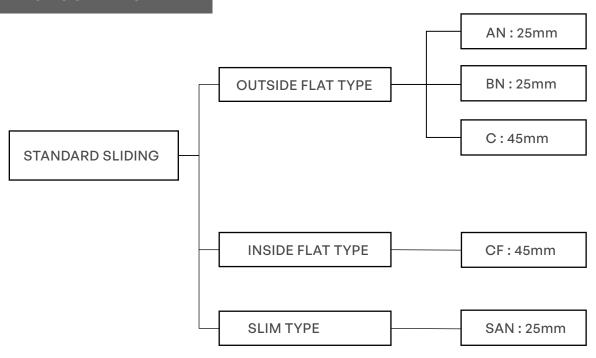
**Double Glazing** 

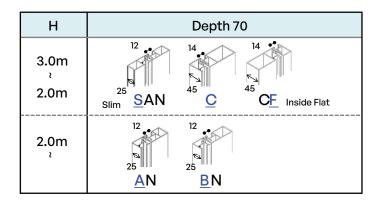


\* High Sound Insulation Type

### STANDARD SLIDING

### PRODUCT DIAGRAM



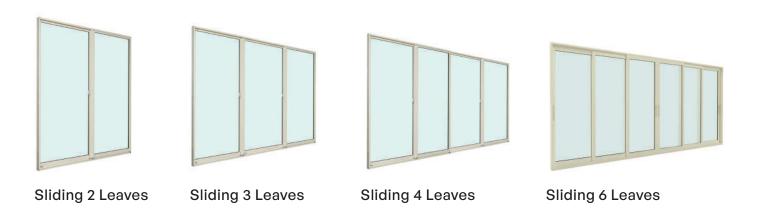


A:Small window B:Small window

C:Standard Terrace Window D:Large Terrace Window

Corresponding height changes depending on the wind pressure

### **VARIATION OF LEAVES**



### 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

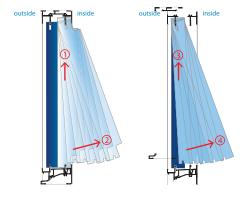
#### • Inner Stopper

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



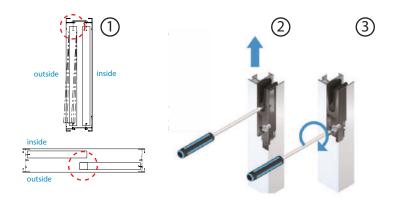
#### Able to be Installed from Inside

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



#### • Inner Stopper

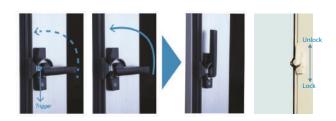
Latch is set at the top of inner frame as the standard to prevent track from jumping out.



### Security

#### • Crescent with False Locking Prevention

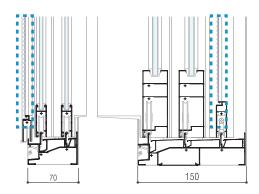
The lock function will work properly and effectively with this setting.



### Insect Screen

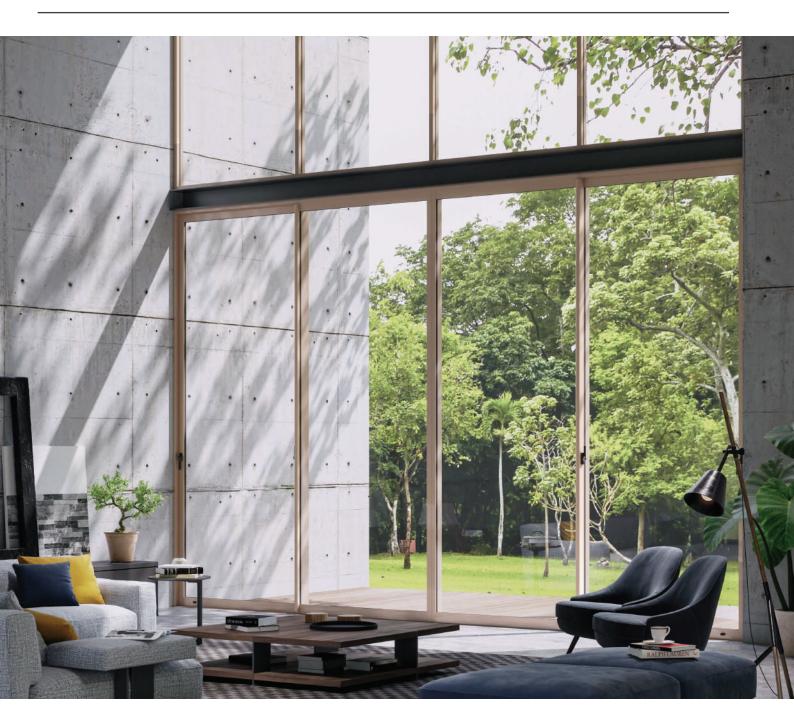
#### • Sliding 2 Tracks and 3 Track

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



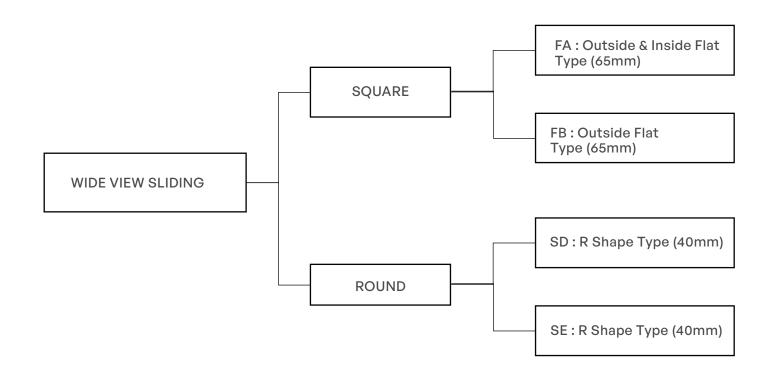
**Open-close Test** 

30,000 cycle depends on item

15 Sliding NEXSTA 25

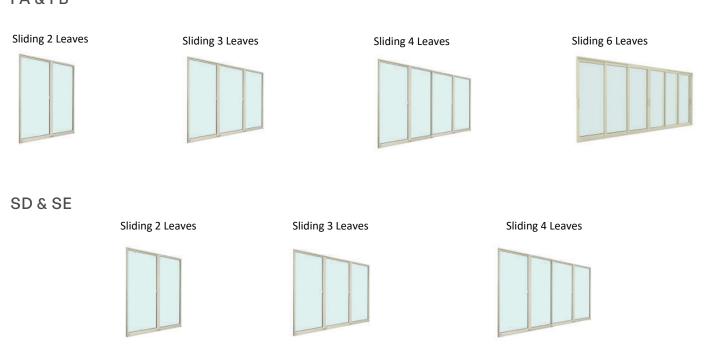
### WIDE VIEW SLIDING

### PRODUCT DIAGRAM



### **VARIATION OF LEAVES**

FA & FB



# WIDE VIEW SLIDING

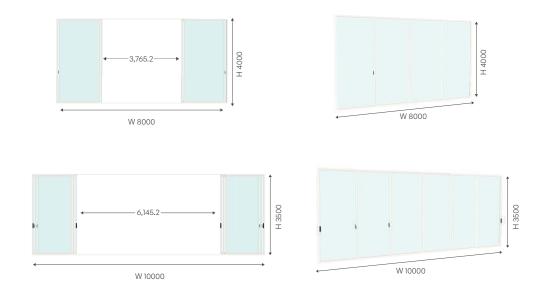
### **FEATURES**

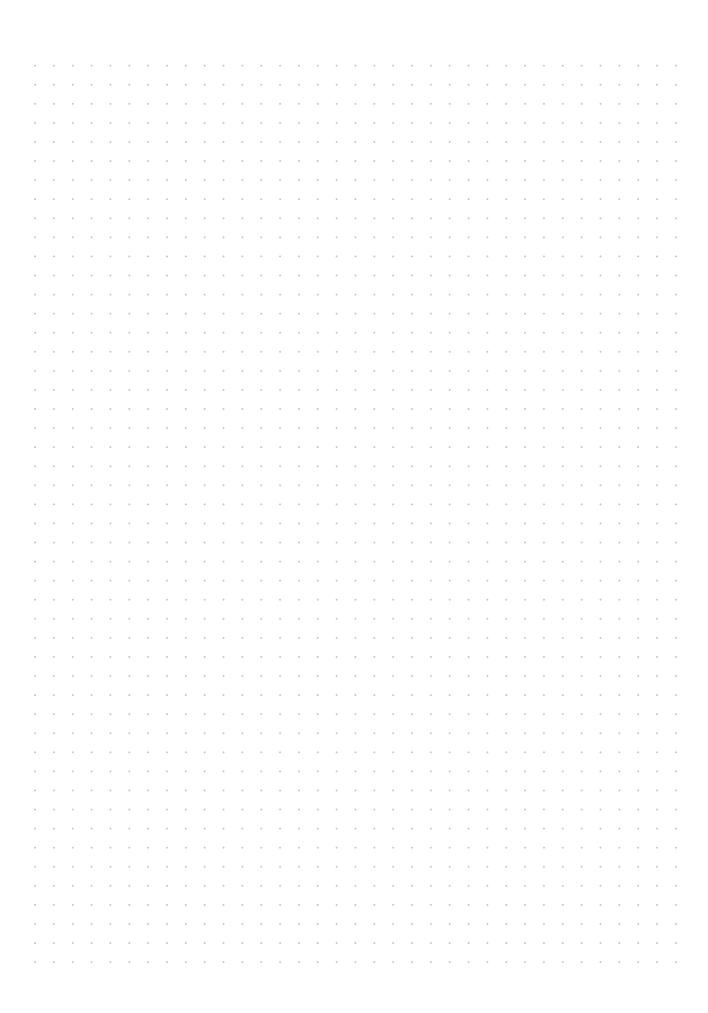


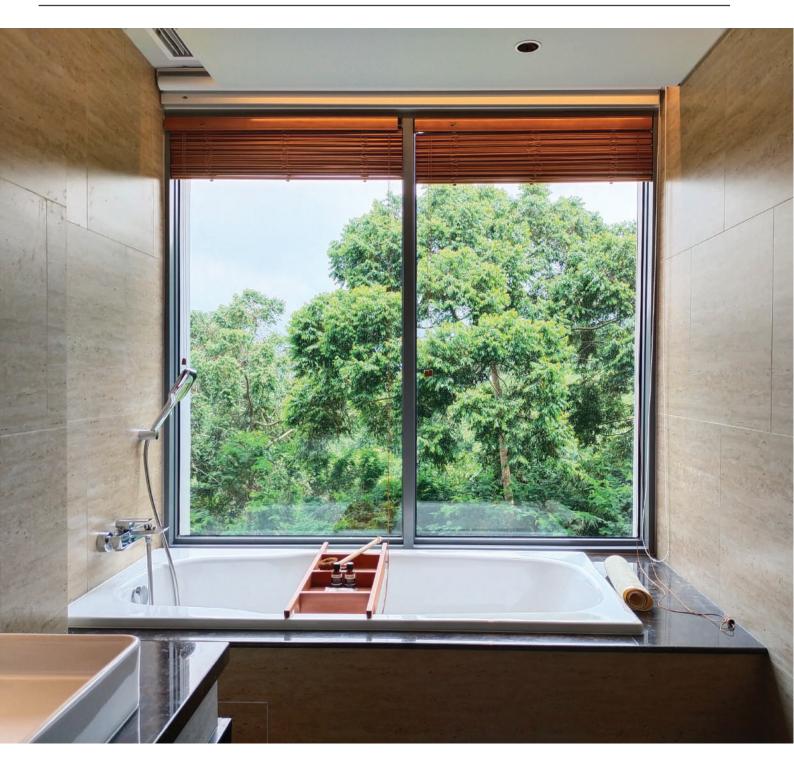
Multipoint Lock System With Single Motion

# 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** 

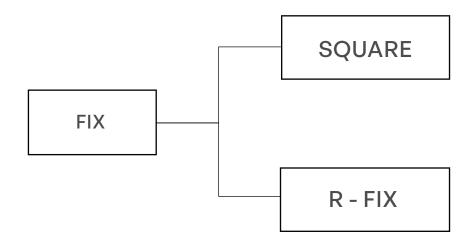
T - 1 (-25 dB)(JIS) T - 2 (-30 dB)(JIS) Rw 24 - 30 (ISO)



**Double Glazing** 



# PRODUCT DIAGRAM

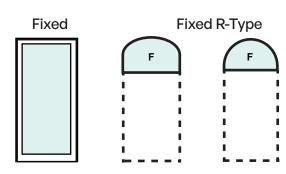




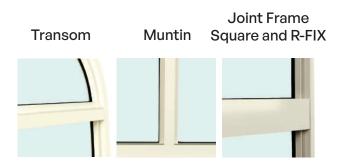
NEXSTA THE STA THE STA

#### **FEATURES**

### **Variation**

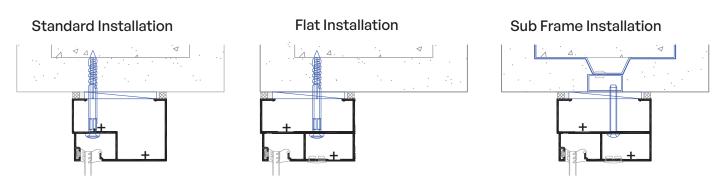


### **Detail of Profile Combination**



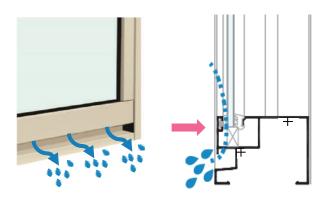
### Design

Flat installation and Sub Frame Installation are the methods for the case when the window is installed with exterior wall or install with sub-frame.



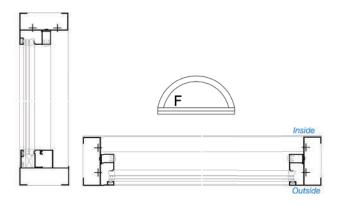
#### Relief

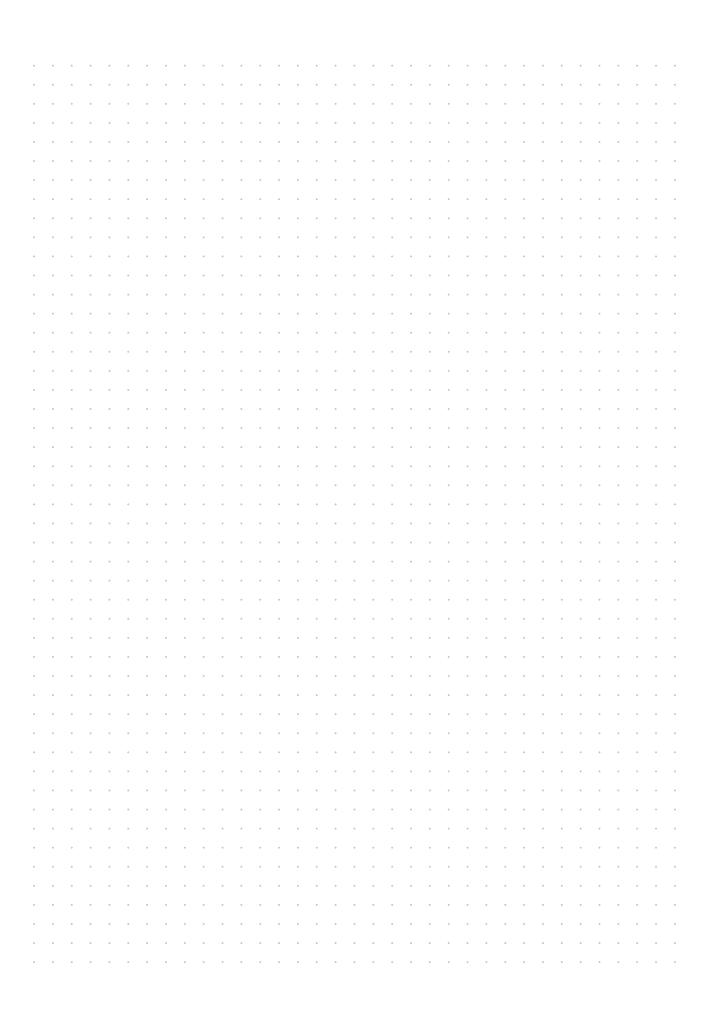
Isobaric System is adopted as water tightness improvement, and drain valve is no longer required.



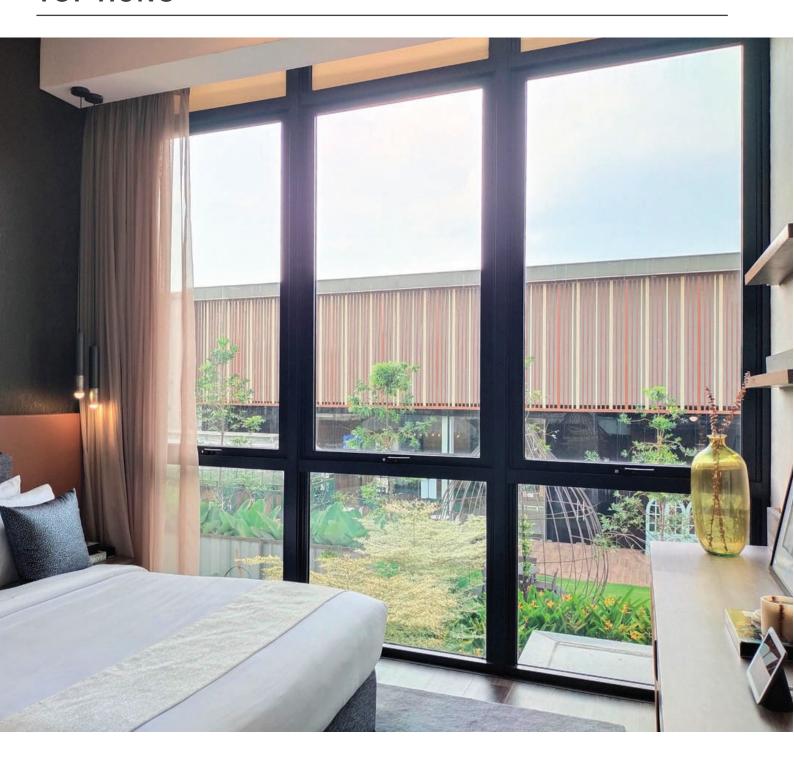
### Flat & Round Design

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





# **TOP HUNG**





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)

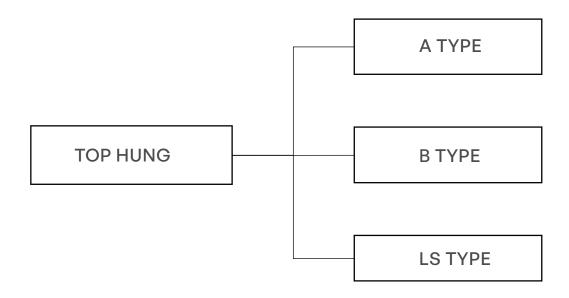


**Double Glazing** 



23 Top Hung NE STA The STA THE

### PRODUCT DIAGRAM



### **VARIATION**

### A, B, LS TYPE











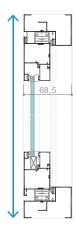
### **TOP HUNG**

#### **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.



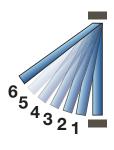
### • Friction Stay

Friction stay is set as standard for safety



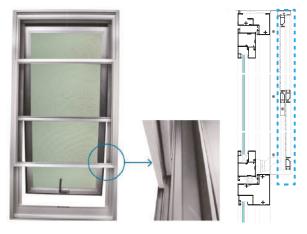
# 6 Step Arm Stopper A & B Type (Option)

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







Structural (Wind Load)

600 Pa Deflection L/100

27



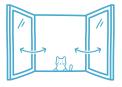
Water Tightness

75 Pa



Air Infiltration

Grade A - 4(JIS)



Open-close Test

30,000 cycle depends on item

### PRODUCT DIAGRAM

HIGH VENTILATION WINDOW A TYPE

### **VARIATION**

### A TYPE ONLY



### ENHANCE VENTILATION, CREATE WELLNESS AT YOUR HOME

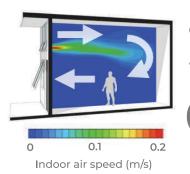
Through YKK AP's research and development, we ensure that the high ventilation window provides optimum benefits to our customer. The operable window at high position can increase the ventilation performance by up to three times higher if compared with non-operable one.



Typical Window

- Upper window is fix window
- Poor ventilation performance

**General Windows** 



Combined with High Ventilation Window

Ventilation Effectivity 3.45x

Air Change Rate<sup>3</sup>

0.37 times/hour



1.66 times/hour

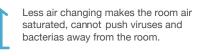


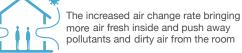


The airflow moving slowly, even almost not moving at all

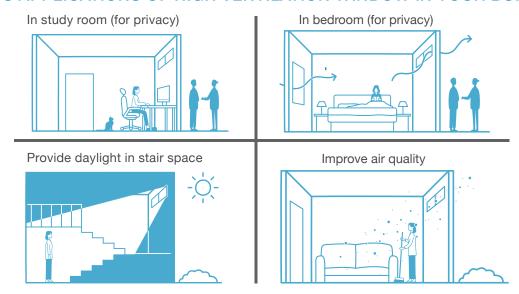


Faster airflow helps to cool the indoor space as well as the occupants, thus improves the thermal comfort.





### VARIOUS APPLICATIONS OF HIGH VENTILATION WINDOW IN YOUR BUILDING



imes notes :

29

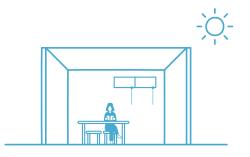
- 1. The performance verification for NEXSTA High Ventilation Window was supported by YKK AP R&D Center (Indonesia).
- 2. Outdoor wind speed of 2 m/s represents the average wind speed during the daytime in most cities in Indonesia.
- 3. Air change rate or ventilation rate, is a measure of the number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

High Ventilation Window NEXSTA

# 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.



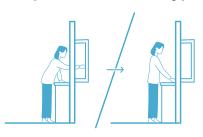
A common high-position window is difficult to open or close due to its unreachable position.

The loopless chain system provides easier and safer window operation



Adjustable wire lenght up to 3.5m

### II. Operator Handle Type



Easy And Safe

Even in the hard to reach places the operation is easy





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



30

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

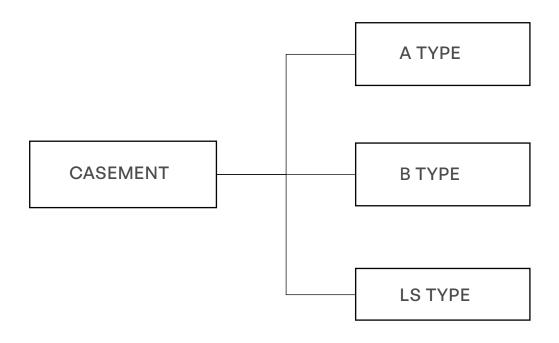
T - 1 (-25 dB)(JIS) T - 2 (-30 dB)(JIS) Rw24 - 30 (ISO)



**Double Glazing** 



### PRODUCT DIAGRAM



### **VARIATION**

# Single Swing

(Right Hand / Left Hand)



# **Double Swing**



### **CASEMENT**

### **FEATURES**

### Design

#### • Clear Design

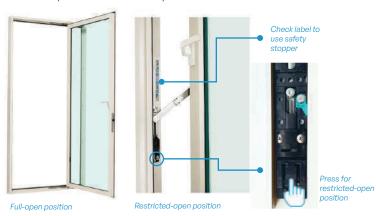
Clear design with no muntin for Double Casement.



### Safety

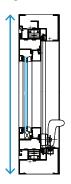
#### Safety Stopper

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



### Flat Design

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



#### • Child Lock

Prevent children from releasing th safety stopper





Normal position

Child lock function

#### • Friction Stay

33

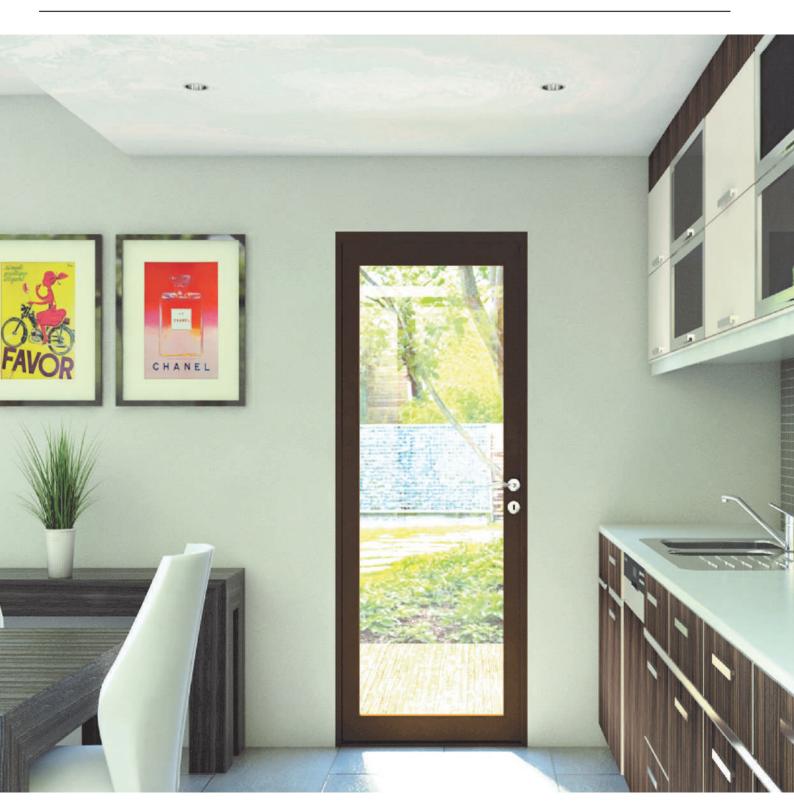
Enables the panel to be opened to 90°, cleaning the glass from indoor can be done easily and safely.







# **BUTT HINGED DOOR**





Structural (Wind Load)

600 Pa Deflection L/100

35



Water Tightness

150 pa

 $\verb|*"Without Bottom Sill"| has no performance of Water Tightness,$ 







**Sound Insulation** 

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

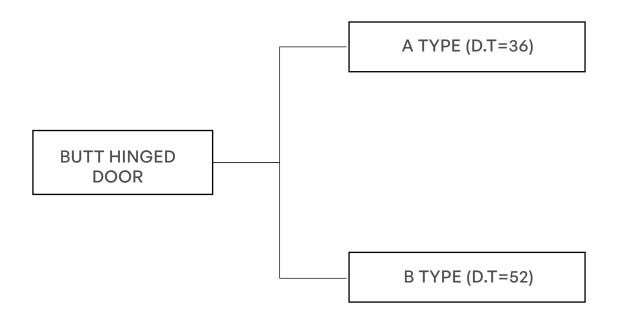


**Double Glazing** 



# **BUTT HINGED DOOR**

## PRODUCT DIAGRAM



## **VARIATION**

Single Swing

(Right Hand / Left Hand Inswing / Outswing)



# **Double Swing**

(Inswing / Outswing)



# **BUTT HINGED DOOR**

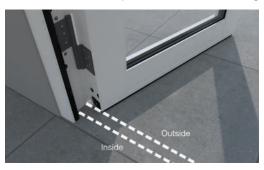
### **FEATURES**

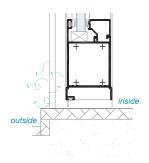
#### Reliable Performance

#### • 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.

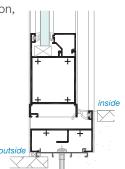




#### • Nexsta (with Bottom Sill)

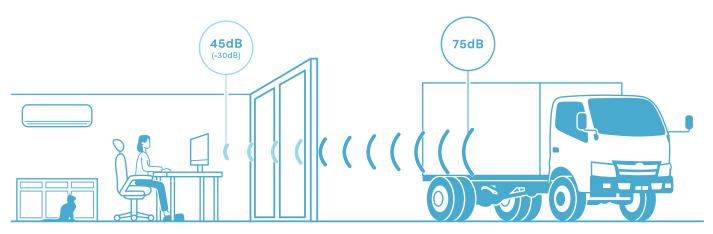
Higher performance benefits such as water tightness, air inflitration, sound insulation, prevent insect and dust.





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

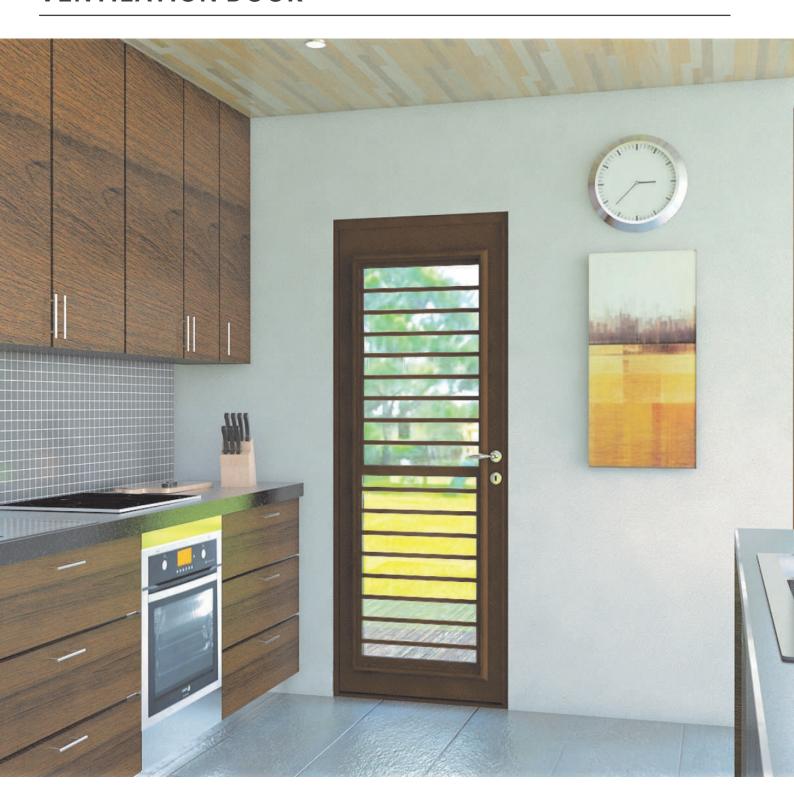
37

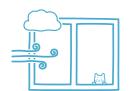


Butt Hinged Door NEXSTA YKK



# **VENTILATION DOOR**





Structural (Wind Load)

1000 Pa Deflection

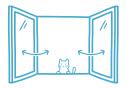


**Water Tightness** 

50 pa



Air Infiltration Grade A - 2(JIS)



**Open-close Test** JIS A 1550 100.000 cycle



# **VENTILATION DOOR**

# PRODUCT DIAGRAM

VENTILATION DOOR

SINGLE SWING

## **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.





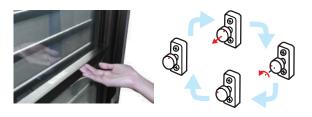
Double Hung windows are mounted inside, allowing ventilation while the door is closed.

\* 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.

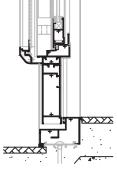


#### Reliable Performance

#### With Bottom Sill

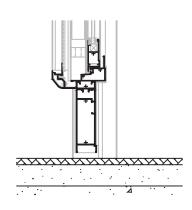
Performance is secured by the Bottom Sill t inside space from water leakage.

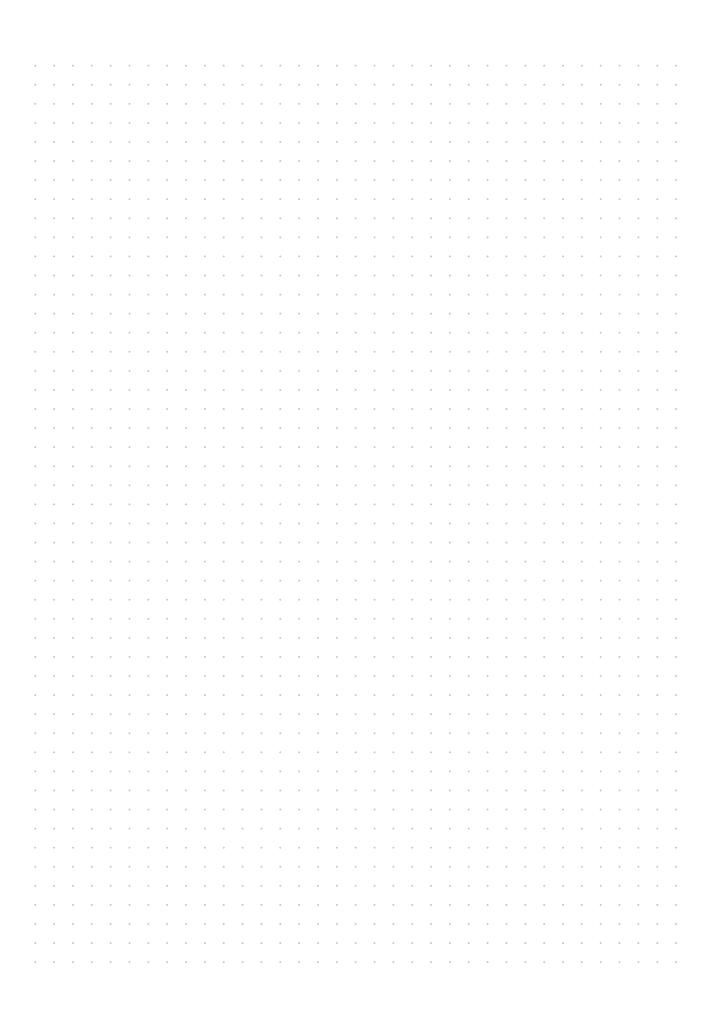




Provided with Rottom Sill to prevent water and

#### 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)



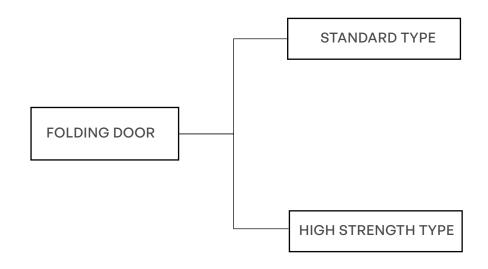
Double Glazing



43 Folding Door NEXSTA 25

# **FOLDING DOOR**

## PRODUCT DIAGRAM



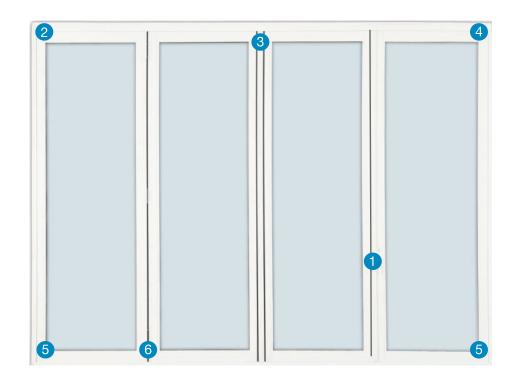
# LEAVES AND OPENING VARIATION

									WIDE
	0R	1R	2R	3R	4R	5R	6R	7R	8R
OL			⊋V 2R	3R	4R 4R	→ W 5R	→ WV 6R	→ /W 7R	⇒ WW 8R
1L		1L1R	D-V 1L2R	D → N 1L3R	D → W	D → M 1L5R	D → W 1L6R	D → WW	
2L	2L	2L1R	V←→V 2L2R	V← →N 2L3R	$\bigvee \leftarrow \rightarrow \bigvee$ 2L4R	$\bigvee \leftarrow \rightarrow \bigvee$ 2L5R	$V \leftarrow \rightarrow W$		
3L	3L	3L1R	V← →V 3L2R	$\bigvee_{3L3R} \longleftarrow \bigvee_{3L3R}$	$\bigvee$ $\leftarrow$ $\rightarrow$ $\bigvee$ 3L4R	$\mathcal{N} \leftarrow \rightarrow \mathcal{N}$ 3L5R			
4L	₩ €	₩← J 4L1R	W← →V 4L2R	W← → N 4L3R	$W \leftarrow \to W$				
5L	₩.€	W ← √ 5L1R	VM ← → V 5L2R	$M \leftarrow M \rightarrow M$ 5L3R					
6L	WV ← 6L	W ← OLIR	W ← → V 6L2R						
7L	→ //// 7L	W√ ← 7L1R							
8L	₩ ← 8L								

NEXSTA W

## **FOLDING DOOR**

#### **FEATURES**



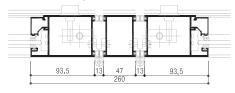


## Performance and Workability

#### • High Strength Inner Frame Setting

Support large opening, support anti typhoon strength





#### • Weep Hole

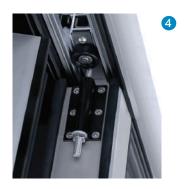
45

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



#### • Hanger Roller

Ensure the smoothness and durable against heavy duty.

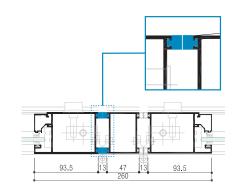


## Safety and Security

#### • 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.







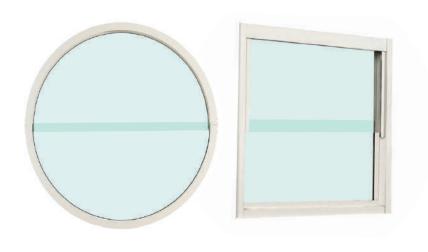
# **BOVENLICHT & LOUVER**

## Bovenlicht

Bovenlicht provides an airy feel and luminous light.

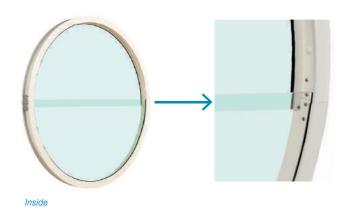


Louver brings an additions air circulation and insect screen.





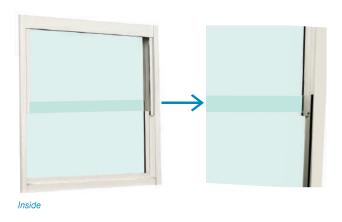
#### **Round Type**





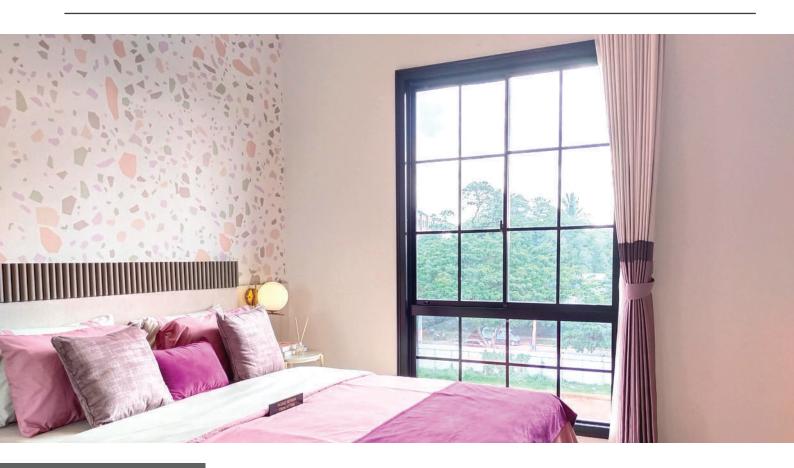
### **Square Type**

47





# **COMMON OPTION LATTICE**



# **VARIATION**

		FRAME TYPE						
		25	32 22	20 5	50 80			
		Trapezoid	Decorative	Flat	Stick on Glass Flat	Bevelled		
Standar	d Sliding				•			
Wide View Sliding					•			
<b>-</b>	A,B-Type	•	•	•	•	•		
Top Hung	LS-Type	•	•	•	•			
	A,B-Type	•	•	•	•	0		
Casement	LS-Type	•	•	•	•			
Fix		•	•	•	•			
Door		•	•	•	•			
Folding Door		•	•	•	•			

<sup>•</sup> Available O Available, glazing with sealant

# **COMMON OPTION MULLION**

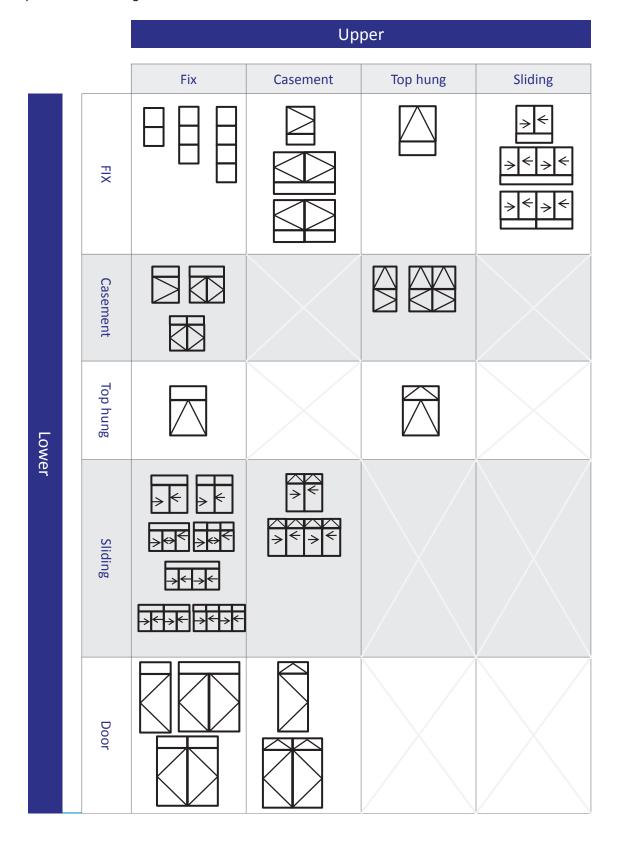
# VARIATION

	Variation					
	F F W	T W		W ====================================		
	Fix-Fix	Casement-Casement	Top Hung-Top Hung	Sliding-Sliding		
Standard-Type	•	•	•	•		
Strong-Type	•	•	•	•		

Available

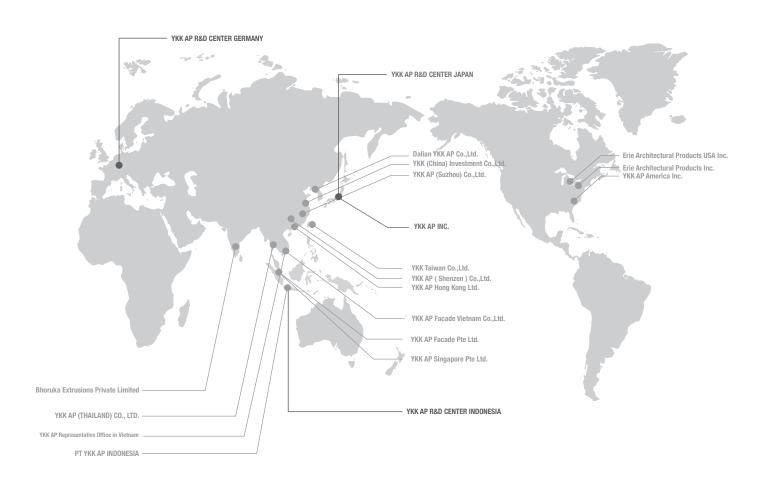
# VARIATION

Samples in this catalog





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