

# M A D E L A



MADELA - H (1200Pa)  
MADELA - L (600Pa)

*Make Delightful Life*

**PT YKK AP INDONESIA**

ENGLISH VERSION

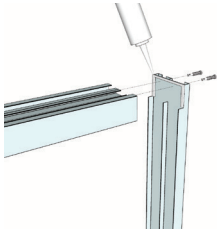
**JAN 2024**

# 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.

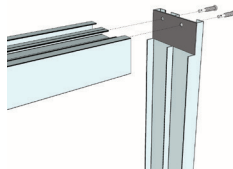
## W Proof Joint

### General metal joint (Bar window)



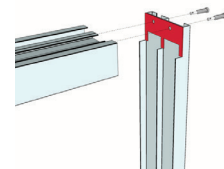
Sealant application after joining

### Normal metal joint (Other company FG)



Using a rubber Sealer pad  
\*Only Solid rubber

### YKK AP performance products



Using Sealer pad with \*SAP Material



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

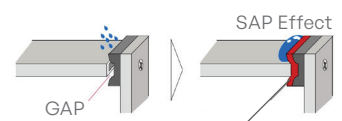
Junction factor Water leakage ratio:  
Less than 3%  
(API research)

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



\*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.

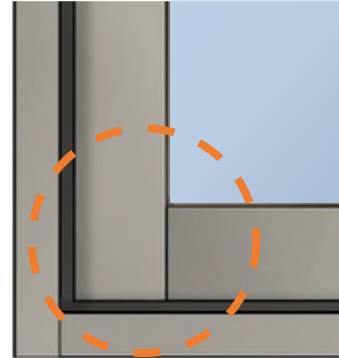


Test for Apartments / High Rise  
200 Pa (Wind Speed = 18.1m/s) × 15 minutes

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

## THE ADVANTAGE OF 90° JOINT STILE IN TOP HUNG & CASEMENT

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MADELA's TOP HUNG & CASEMENT windows have **VERTICAL STILE (90° Joint)** which has neat and sharp appearance and easier to cut and assemble.



### SHARP APPEARANCE

Vertical Stile emphasizes vertical lines, unity in multiple lines.



### BETTER PERFORMANCE

Even with aluminium's shrinkage feature, water does not easily leak



### ADJUSTABLE WIDTH

Easily cut in site  
(current stile cannot be adjusted easily)



### WIDER GLASS AREA

Slim stile for 14% wider scenery view than general window while keeping sufficient strength.

\*Comparison condition: Top Hung 900x1200



# WINDOWS FOR NEXT GENERATIONS

“SIMPLE AND EASY”

## Reliable Quality

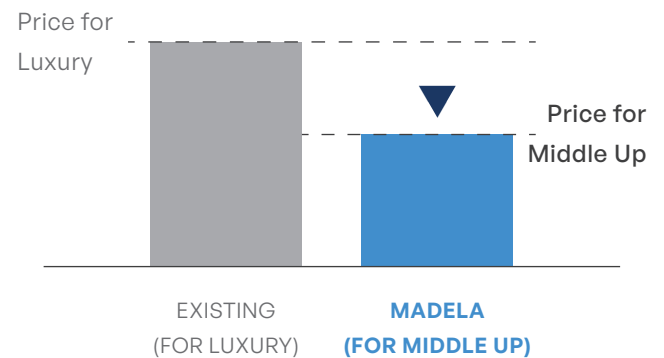
- YKK AP Original Hardware



YKK AP Original Hardware are used for the main parts

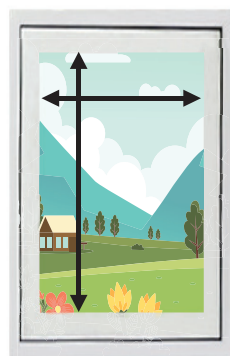
## Affordability

- Price Suitable For Middle Up Zone



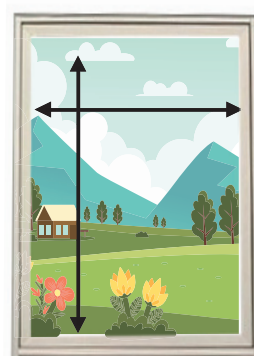
## Simple Design

- Not Obstruct The Scenery



GENERAL WINDOWS

Glass Area  
**14% up**



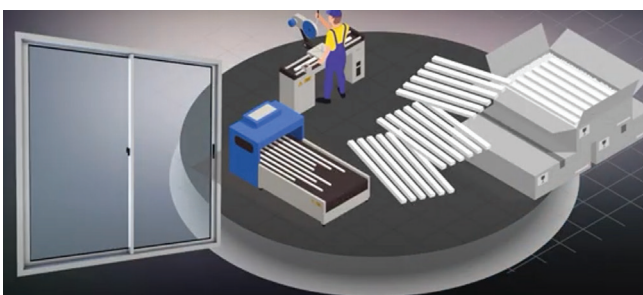
**MADELA**

Slim stile with  
Sufficient strength

\*Comparison condition:  
Top Hung 900x1200

## Hight Processing Accuracy

- Products are processed with high accuracy in AP Factory

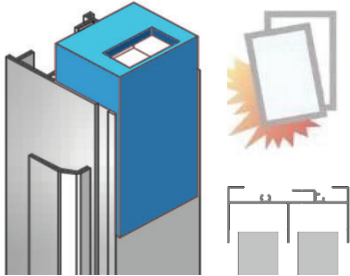




## PRODUCT FEATURE

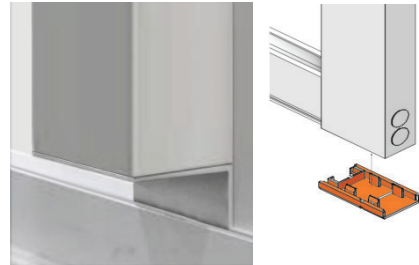
### Safety Consideration

- Anti-Lift Device



Anti-Lift device is set standard for both inner/outer shutters to prevent the shutters from falling out of position

- Safety Cap For Interlocking Stile



Prevents injuries caused by accidents during cleaning, normal use, and accidents

### Operating Parts

- Easy-To-Use

#### Crescent (With lock knob)

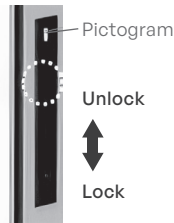


Raise the lock knob

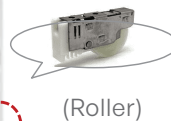


Turn the handle to unlock

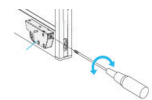
#### Hook Lock (Flat design)



- Smooth Sliding And Highly Durable Roller



(Roller)



Adjustable height  
(+3 mm)



Rollers can be replaced without dismantling the shutters

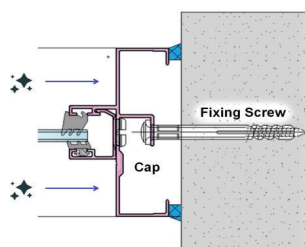
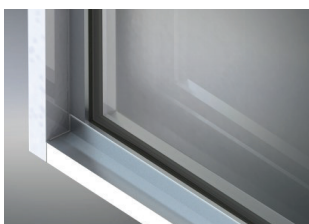


After 20,000 times of opening and closing, there were no disorder for operation

### Beautiful Finishes

- Compatible With Thin Walls

#### Neat and Clean Look Non Visible Fixing Screw



1. Since it is screwed with the core of the wall, the wall will not break
2. Clean fit with no visible screws or caps

## Variety of Opening Types & Setting Units

### ☐ SLIDING

2 Leaves

Standard



600Pa	W2400xH2800
1200Pa	W2400xH2400

4 Leaves



600Pa	W4800xH2800
1200Pa	W4800xH2400

STEP WINDOWS



600pa	W2000xH3000
1200pa	W2000xH2500

2 Leaves

Flat Sill



—	W2400xH2800
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4 Leaves



—	W4800xH2800
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### ☐ TOP HUNG

SINGLE



600Pa	W1500xH2000
1200Pa	

STEP WINDOWS  
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH2700



600Pa	W1500xH3000
1200Pa	

STEP WINDOWS  
(3 Level)



600Pa	W1500xH3000
1200Pa	

### ☐ CASEMENT

SINGLE



600Pa	W1000xH2000
1200Pa	

STEP WINDOWS  
(2 Level)



600Pa	W1000xH3000
1200Pa	

STEP WINDOWS  
(3 Level)



600Pa	W1000xH3000
1200Pa	

### ☐ FIX

SINGLE



600Pa	W1500xH2800
1200Pa	

STEP WINDOWS  
(2 Level)



600Pa	W1500xH3000
1200Pa	

STEP WINDOWS  
(3 Level)



600Pa	W1500xH3000
1200Pa	

### ☐ DOOR

WITHOUT SILL

SINGLE STEP DOOR  
(2 Level)



—	W1000xH3000
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WITH SILL

SINGLE STEP DOOR  
(2 Level)

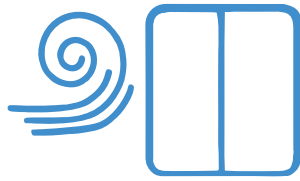


1200Pa	W1000xH2400
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\*For Continues Windows, please check MADELA Catalog or Contact Sales PIC

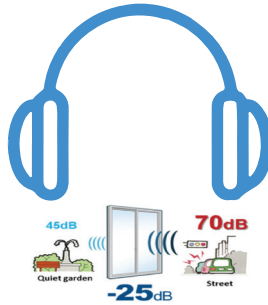
## WINDOW PERFORMANCE

### Structural (Wind Load)



MADELA - H Up to 1200Pa  
MADELA - L Up to 600Pa

### Sound Insulation



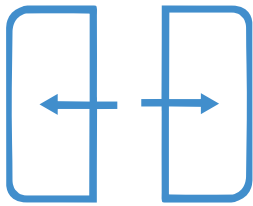
Provide A Quiet Living  
Atmosphere  
**-25 dB**

### Water Tightness



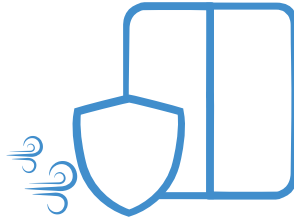
Watertight From Outside  
Within  
MADELA - H : 200Pa  
MADELA - L : 100Pa

### Opening Force



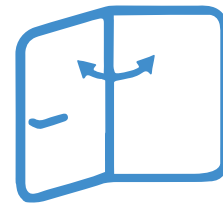
Smooth Opening  
(Less Than 5 Kg)

### Air Tightness



Dust Free and  
Airtight System  
**Up to 75 Pa**

### Open-Close Test



**20,000 Cycles**  
No Damage

\*Air Tightness performance for Sliding has no guarantee

## High Quality Finishes

Powder Coating  
re-paint OK

Anodize +  
resistant to rain and UV



White/Ivory

TW01

TW02



Light Gray  
/Champagne

YS1N (Matte)

YH1N (Matte)



Deep Gray

TB80



Brown

TB20

YB1C (Glossy)

YB1N (Matte)



Black

TK10







YK1N (Matte)









# PARTS

## SPECIFICATION

### Parts Matrix

	SLIDING (ALL TYPE)			DOOR (ALL TYPE)		
WINDOW TYPE	HANDLE			HANDLE SET		
CATEGORY	STANDARD	OPTIONAL		OPTIONAL		
	CRESCENT LOCK	HOOK LOCK		LEVER HANDLE	MORTISE	CYLINDER & KEY
		WITHOUT KEY	WITH KEY Double Sided			
PARTS						
	L = 60					
COLOR OPTION	DG, YW	YK, D1	YK	YS		

	TOP HUNG & CASEMENT					
WINDOW TYPE	HANDLE*		FRICTIONSTAY		SAFETY STOPPER (OPENING ABOUT 100mm)*	
CATEGORY	STANDARD		OPTIONAL	STANDARD	OPTIONAL	
	MULTI POINT	CAMLATCH	ECONOMY	YKK AP	ARMSTOPPER*	AL.PLATE*
PARTS						
COLOR OPTION	YK, D1	YK	YS	YS	YS	YS
600 Pa	●	●	●**	●	●**	●
1200 Pa	●	●	●	●	●	●
*Check size limitation						

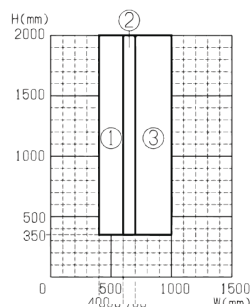
### Parts Color

**DG** : Dark Gray    **D1** : White    **YK** : Black    **YS** : Light Gray

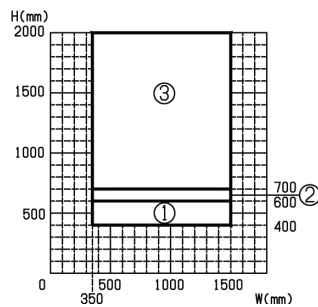
Optional Parts depend on user needs on strength and price matter

### Limitation Graph For Safety Stopper

#### CASEMENT



#### TOP HUNG



NO.	DESCRIPTION	PART NO.
①	AL. PLATE(L=33)	9K-11114
②	AL. PLATE(L=47)	9K-11353
③	ARM STOPPER	9K-11113

## | PROJECT REFERENCE

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Project Photo: Northwest Park Extention Citraland, Surabaya



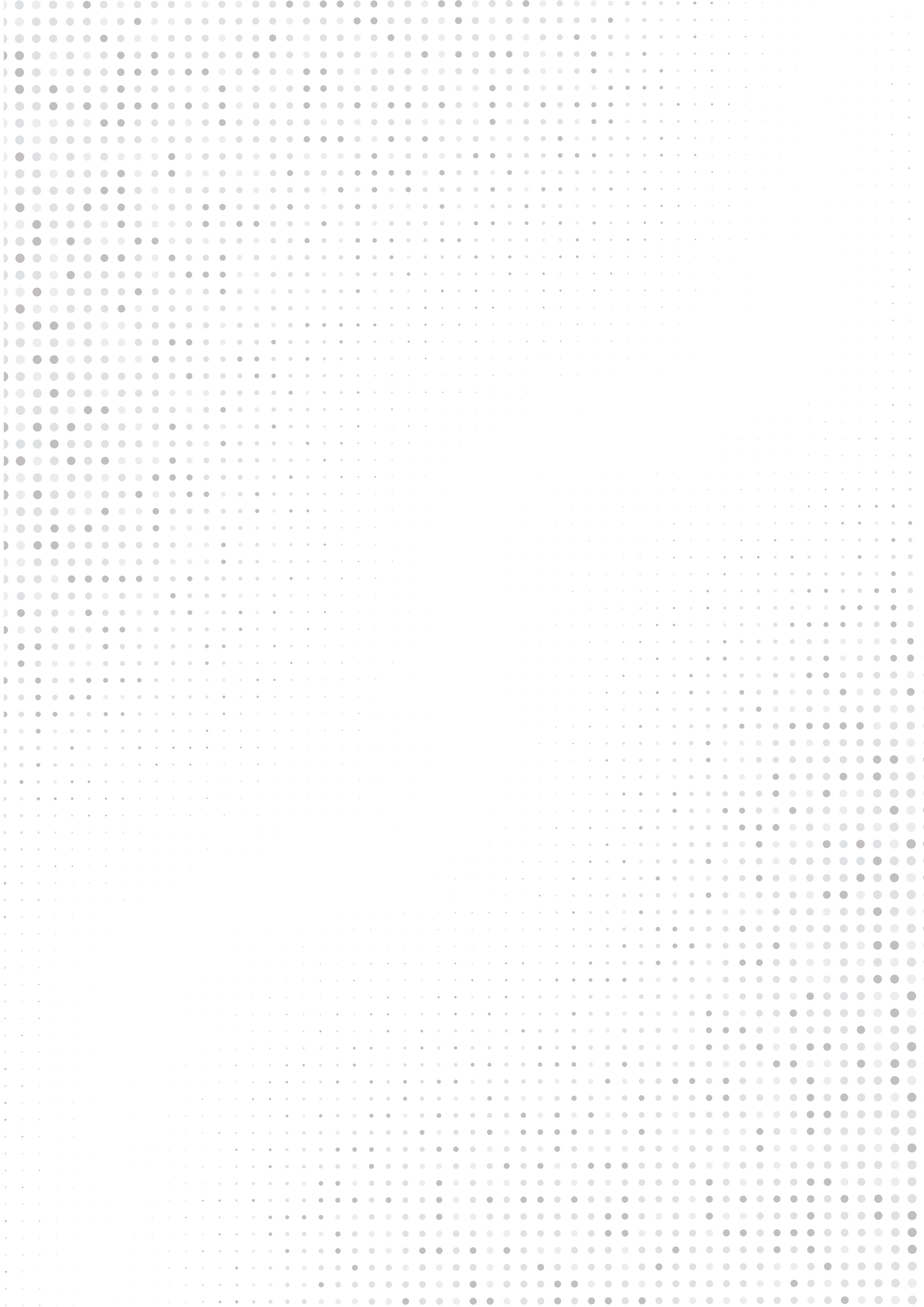
## PROJECT REFERENCE

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Project Photo: Cleon Park, Jakarta





# M A D E L A

Windows that meet the demands of future housing



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