

MADELA



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

Make Delightful Life

PT YKK AP INDONESIA

ENGLISH VERSION

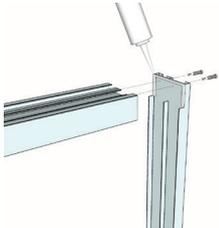
SEP 2024

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.

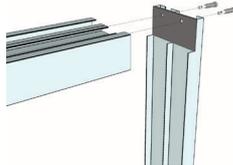
W Proof Joint

General metal joint (Bar window)



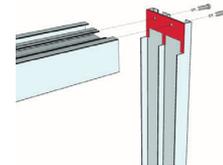
Sealant application after jointing

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)

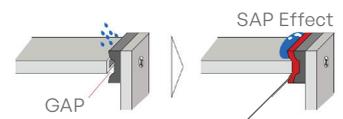
Junction factor Water leakage ratio:
Less than 3%
(API research)

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.

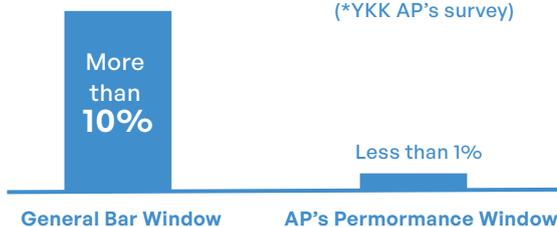
Secret of W Proof Joint



*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)



- 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

MADELA SPECIAL SYSTEM

The Advantage of 90° Joint Stile in Top Hung & Casement



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

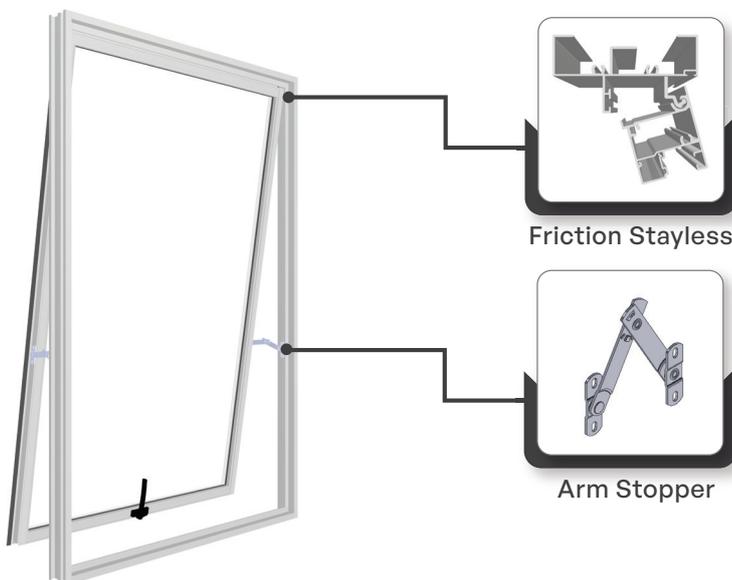
- ✓ SHARP APPEARANCE**
Vertical Stile emphasizes vertical lines, unity in multiple lines.
- ✓ ADJUSTABLE WIDTH**
Easily cut in site (current stile cannot be adjusted easily)
- ✓ BETTER PERFORMANCE**
Even with aluminium's shrinkage feature, water does not easily leak
- ✓ WIDER GLASS AREA**
Slim stile for 14% wider scenery view than general window while keeping sufficient strength.

*Comparison condition: Top Hung 900x1200

Top Hung Friction Stayless **NEW**

• Friction Stayless

Indonesia first innovation for using dedicated profile hinge for friction stayless top hung.



Friction Stayless

Does not use friction stay, so there is no deterioration of movement due to rust.

Safety **✓**

Arm Stopper keeps the appropriate the opening width.

WINDOWS FOR NEXT GENERATIONS

“SIMPLE AND EASY”

Reliable Quality

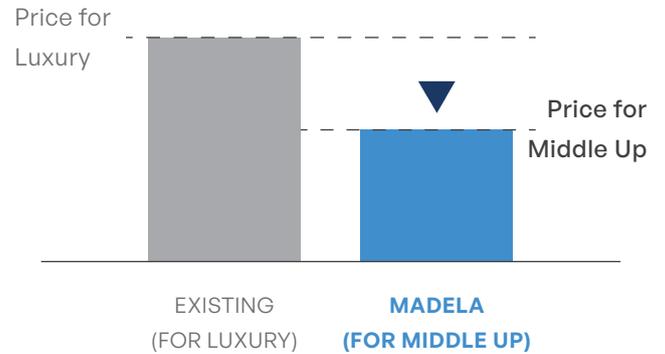
- YKK AP Original Hardware



YKK AP Original Hardware are used for the main parts

Affordability

- Price Suitable For Middle Up Zone



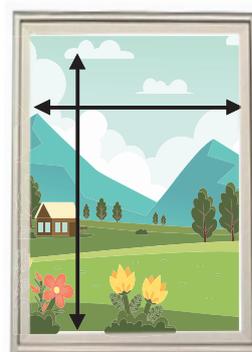
Simple Design

- Not Obstruct The Scenery



GENERAL WINDOWS

Glass Area
14% up



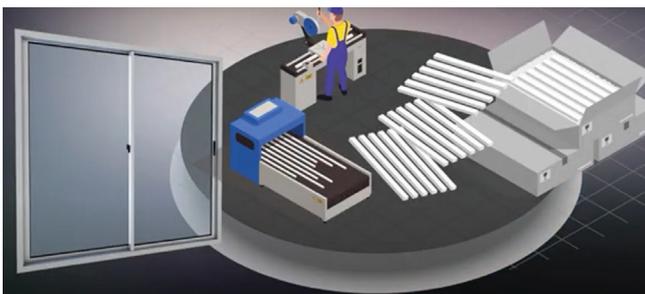
MADELA

Slim stile with
Sufficient strength

*Comparison condition:
Top Hung 900x1200

Hight Processing Accuracy

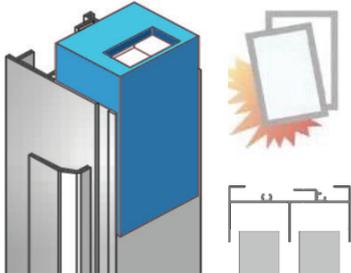
- Products are processed with high accuracy in AP Factory



PRODUCT FEATURE

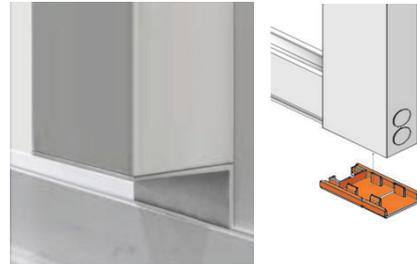
Safety Consideration

• 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)

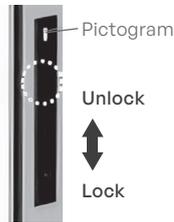


Raise the lock knob



Turn the handle to unlock

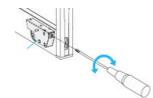
Hook Lock (Flat design)



• Smooth Sliding And Highly Durable Roller



(Roller)



Adjustable height (+3 mm)



Rollers can be replaced without dismantling the shutters

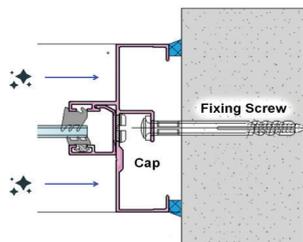


After 20,000 times of opening and closing, there were no disorder for operation

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	W2000xH300
1200pa	W2000xH250

2 Leaves

Flat Sill



—	W2400xH2800
---	-------------

4 Leaves



—	W4800xH2800
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TOP HUNG

SINGLE

Standard



600Pa	W1500xH2000
1200Pa	

STEP WINDOWS
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH2700

600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS
(3 Level)



600Pa	W1500xH300
1200Pa	W1500xH300

SINGLE

NEW
Friction Stayless



600Pa	W1500xH2000
1200Pa	

STEP WINDOWS
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH2700

600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS
(3 Level)



600Pa	W1500xH300
1200Pa	W1500xH300

CASEMENT

SINGLE



600Pa	W1000xH2000
1200Pa	

STEP WINDOWS
(2 Level)



600Pa	W1000xH3000
1200Pa	W1000xH3000

STEP WINDOWS
(3 Level)



600Pa	W1000xH300
1200Pa	W1000xH300

FIX

SINGLE



600Pa	W1500xH2800
1200Pa	

STEP WINDOWS
(2 Level)



600Pa	W1500xH3000
1200Pa	W1500xH3000

STEP WINDOWS
(3 Level)

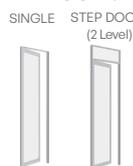


600Pa	W1500xH300
1200Pa	W1500xH300

DOOR

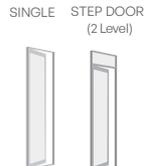
SINGLE DOOR

WITHOUT SILL



—	W1000xH3000
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WITH SILL



1200Pa	W1000xH3000
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DOUBLE DOOR **NEW**

WITHOUT SILL



—	W2000xH3000
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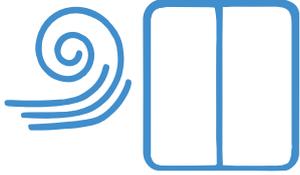
WITH SILL



600Pa	W2000xH3000
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WINDOW PERFORMANCE

Structural (Wind Load)



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

Sound Insulation



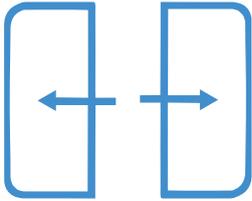
Provide A Quiet Living Atmosphere
-25 dB

Water Tightness



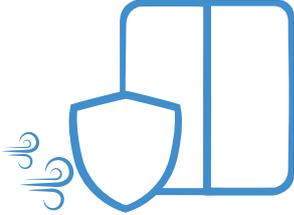
Watertight From Outside
Within
MADELA - H : 200Pa
MADELA - L : 100Pa

Opening Force



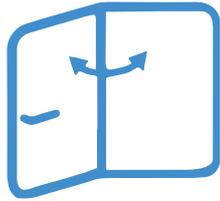
Smooth Opening
(Less Than 5 Kg)

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

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

WINDOW TYPE	TOP HUNG & CASEMENT					
	HANDLE*		FRICTIONSTAY		SAFETY STOPPER (OPENING ABOUT 100mm)*	
	MULTI POINT	CAMLATCH	ECONOMY*	YKK AP	ARMSTOPPER*	AL.PLATE*
PARTS						
COLOR OPTION	YK, D1	YK	YS	YS	YS	YS

*Check size limitation

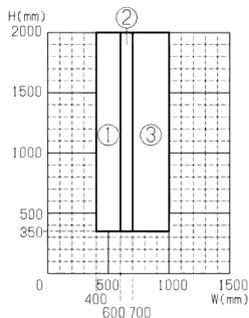
*Optional Parts depend on user needs on strength and price matter

Parts Color

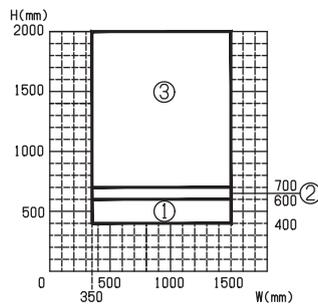
DG : Dark Gray D1 : White YK : Black YS : Light Gray

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

*Not applied for Top Hung Friction Stayless

PROJECT REFERENCE

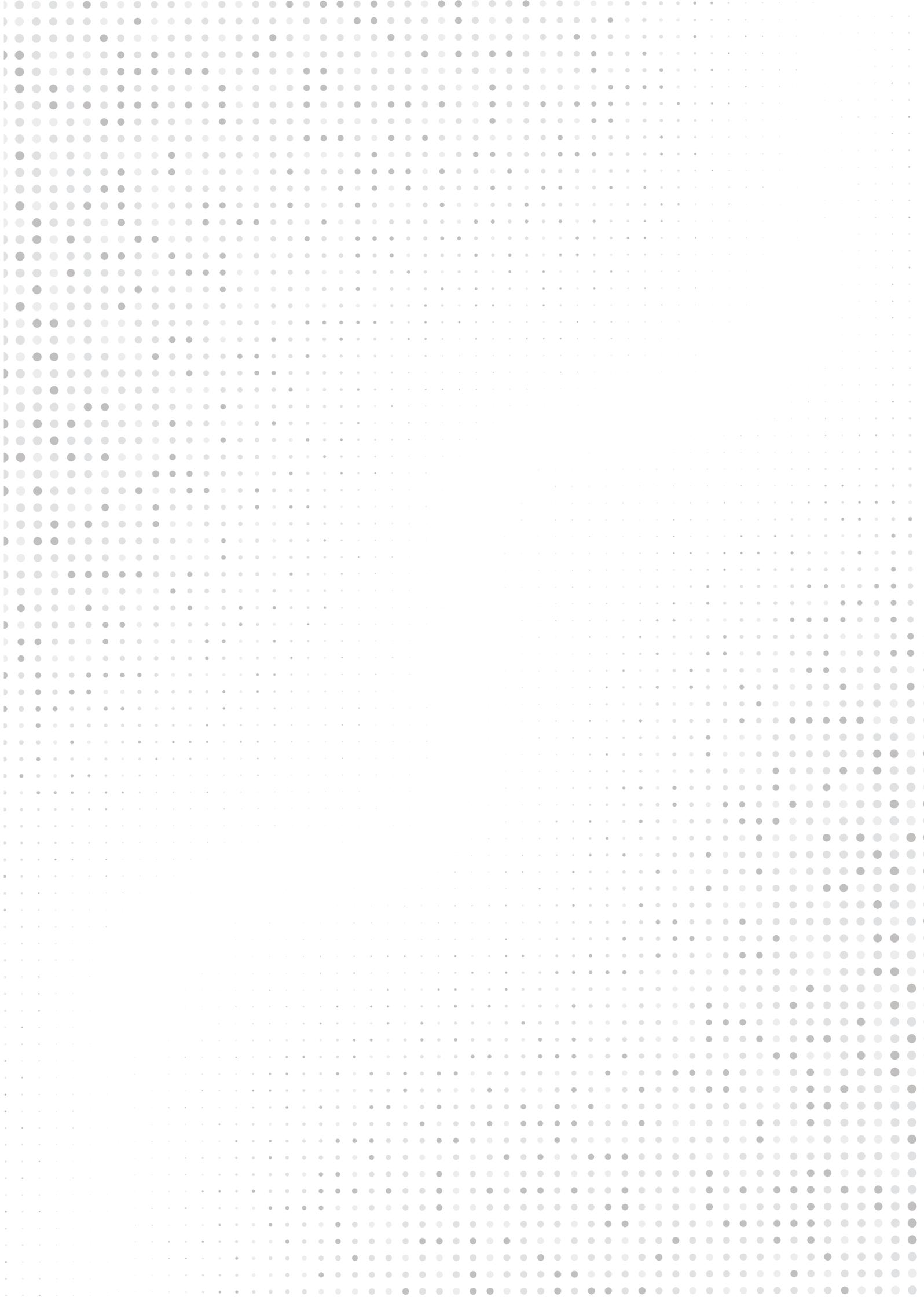


Project Photo: Northwest Park Extension Citraland, Surabaya

| PROJECT REFERENCE



Project Photo: Cleon Park, Jakarta



M A D E L A

Windows that meet the demands of future housing



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