

# INTERLOCKING CONCRETE PAVERS

Lifestyle Sustainable Development  
Eco-friendly Pavement Solutions Provider





# INTRODUCTION

Sunway Paving Solutions Sdn Bhd is a wholly owned subsidiary of Sunway Berhad. As a leading company in the manufacturing of innovative interlocking concrete pavers and compressed concrete paving slab (Eurotiles), we command more than 60% of the market shares across Malaysia & Singapore.

As part of Sunway Group, we work towards realising the Group's vision of becoming Asia's model corporation in Sustainable Development and remain committed to the United Nations Sustainable Development Goals. We minimise environmental pollution by maximising the usage of recycled material in our products and helps to conserve natural resources. In addition, the High Solar Reflectiveness of our products in light colours helps reduce heat island effectively.

Interlocking concrete pavers and compressed concrete paving slab are highly durable pavement material and require minimal maintenance. It is certainly the

most economical choice to enhance the landscape aesthetically.

At Sunway, we reassure the health & wellbeing of people and we take road safety seriously. All our products are manufactured in accordance with skid resistance index score of above 65. With excellent grip and traction on pathways, we can ensure the safety of users at all times regardless of the weather.

Sunway Paving Solutions Sdn. Bhd. is not just any ordinary paving solutions company, we pave towards a greener and safer nation underscored by our core values of integrity, humility and excellence.

## Benefits of SUNWAY INTERLOCKING CONCRETE PAVERS



### Aesthetic & Versatile Colour Coding Possibilities

Variety of colours leads to interesting designs



### Absolute Durability

Minimal maintenance, hard wearing surface & high skid resistance



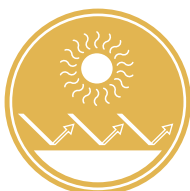
### Ease of Laying & Immediate Use

Inaccessible areas with slopes and gradients can be paved easily without using heavy equipment. Can be opened to traffic immediately upon completion



### Algae Resistance

Able to reduce the formation of algae on the pavers' surface



### High Solar Reflectance

Light-coloured pavers absorb less heat, results in cooler surface and reduces heat island effect



### Green Product

Made from recycled materials, can be reused and recycled

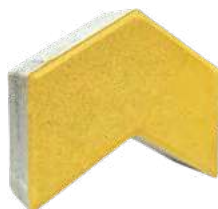
Johor Bahru

# CLASSIC



**Anchorlok**

Size : 223mm x 111mm  
Area Coverage : 26.3 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 6.35kg



**Arrowpave**

**New!**

Size : 242.5mm x 140mm  
Area Coverage : 29.7 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 5.6kg



**Desert Fern**

Size : 210mm x 136mm  
Area Coverage : 35 pieces/m<sup>2</sup>  
Thickness : 60 / Z60 / 80mm  
Approx Weight : 3.65 / 4.70kg



**Desert Lily**

Size : 210mm x 220mm  
Area Coverage : 39 pieces/m<sup>2</sup>  
Thickness : 60 / Z60 / 80mm  
Approx Weight : 3.05 / 4.10kg



**Flexipave**

Size : 198mm x 98mm  
Area Coverage : 49.5 pieces/m<sup>2</sup>  
Thickness : 60 / Z60 / 80 / 100mm  
Approx Weight : 2.45 / 3.40 / 4.35kg



**Ezy-Pave**

**New!**

Size : 275mm x 120mm  
Area Coverage : 30.3 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 5.7kg



**Trafika**

Size : 225mm x 197mm  
Area Coverage : 29 pieces/m<sup>2</sup>  
Thickness : 80 / 100mm  
Approx Weight : 5.80 / 7.25kg



**Twinpave**

Size : 209mm x 104mm  
Area Coverage : 44.1 pieces/m<sup>2</sup>  
Thickness : 60 / Z60 mm  
Approx Weight : 2.45kg



**Uni Decor**

Size : 228mm x 138mm  
Area Coverage : 37.8 pieces/m<sup>2</sup>  
Thickness : 60 / Z60mm  
Approx Weight : 3.35kg



**Uni Espave**

Size : 220mm x 190mm  
Area Coverage : 34.7 pieces/m<sup>2</sup>  
Thickness : 60 / Z60mm  
Approx Weight : 3.50kg



**Unipave**

Size : 223mm x 111mm  
Area Coverage : 39.5 pieces/m<sup>2</sup>  
Thickness : 60 / Z60 / 80 / 100mm  
Approx Weight : 3.10 / 4.20 / 5.45kg

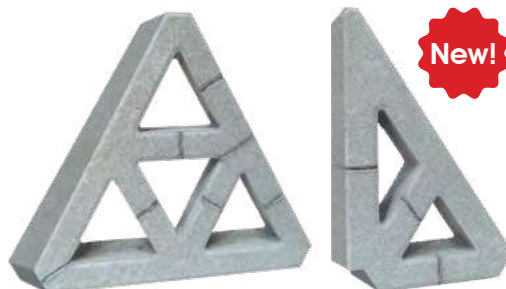


# GRASSPAVE



## Prime Grasspave

Size : 200mm x 200mm  
Area Coverage : 25 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 5.24kg



## Eco Arch Grasspave

Size : 495mm x 429mm (Full)  
248mm x 429mm (Half)  
Area Coverage : 6 pieces (Full) +  
4 pieces (Half) /m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 15.5kg (Full) / 8.8kg (Half)



## Desert Lily Grasspave

Size : 313mm x 313mm  
Area Coverage : 10 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 12.00kg



## Uni-grasspave

Size : 336mm x 223mm  
Area Coverage : 13.2 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 8.80kg



## KT Grasspave

Size : 346mm x 346mm  
Area Coverage : 9 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 12.87kg

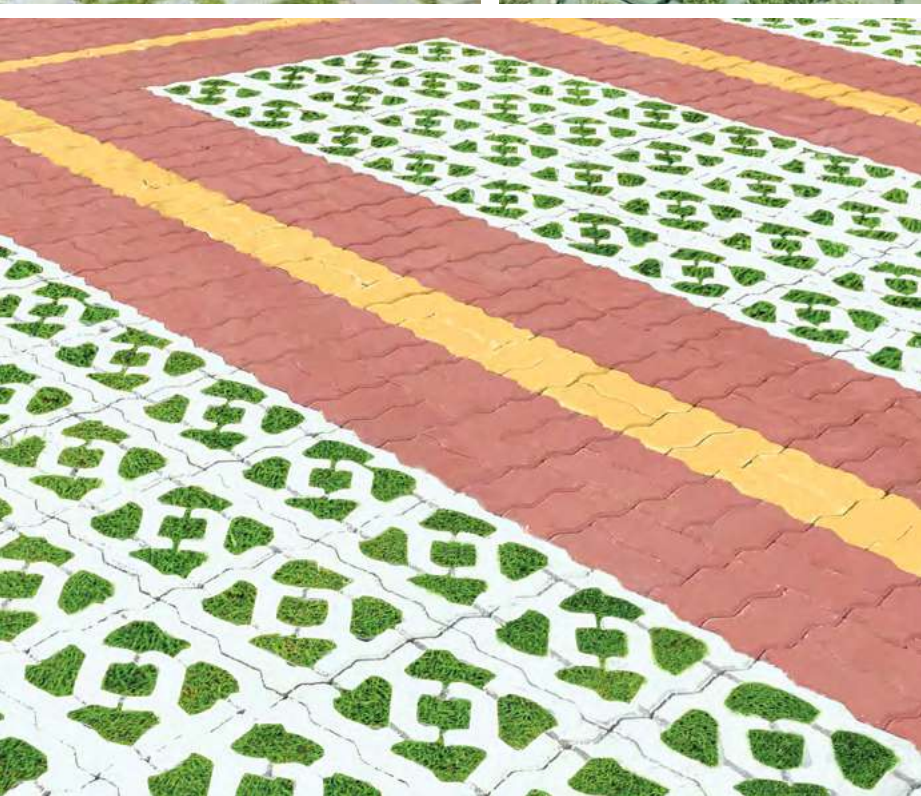
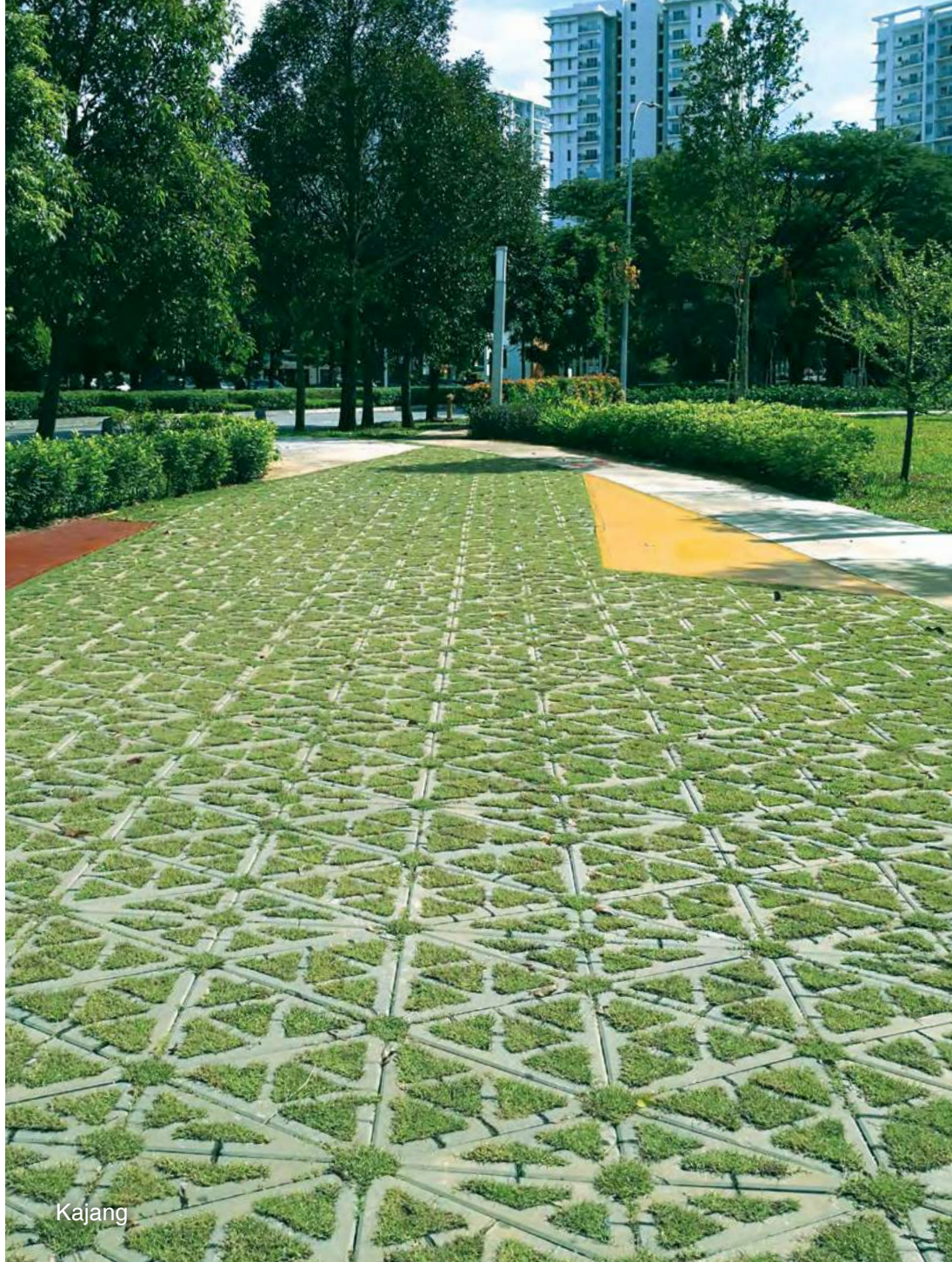


## Super Uni-grasspave

Size : 453mm x 453mm  
Area Coverage : 4.83 pieces/m<sup>2</sup>  
Thickness : 100mm  
Approx Weight : 29.00kg









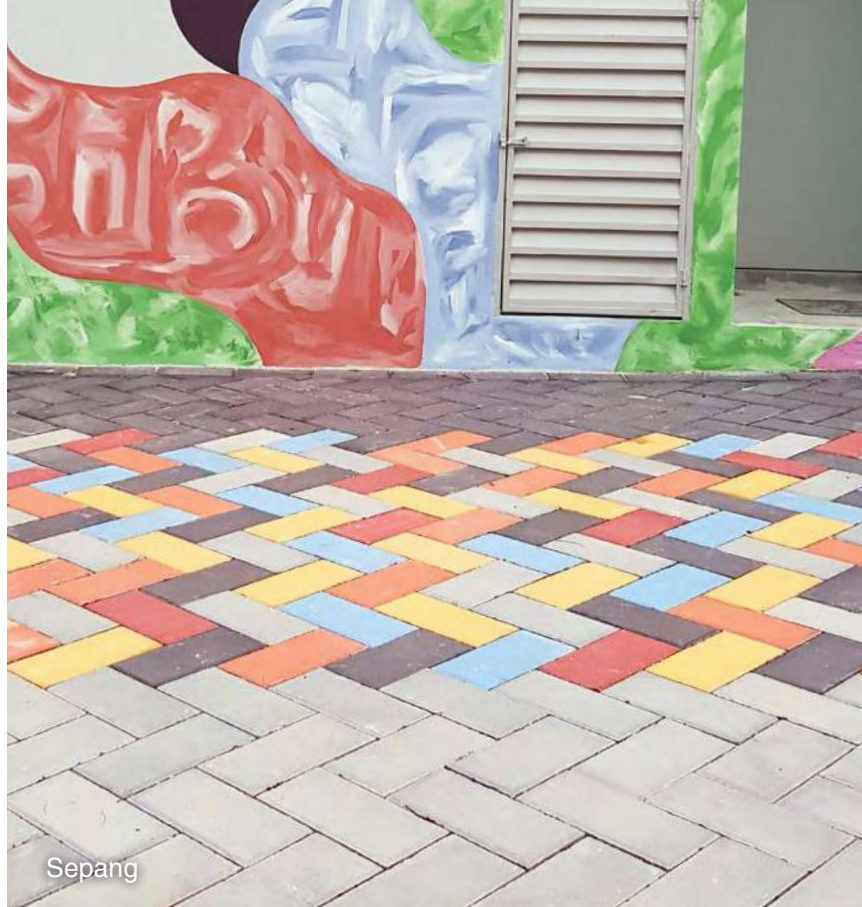


Seberang Perai



Kuala Lumpur

**PLUS SIZE**



Selangor



Seberang Perai



Flexipave

Flexipave Plus

### Flexipave Plus

Size : 150mm x 300mm  
 Area Coverage : 22.22 pieces/m<sup>2</sup>  
 Thickness : 80mm  
 Approx Weight : 7.80kg



Flexipave

i Pavers

### i Pavers

Size : 1000mm x 1000mm  
 Area Coverage : 1 piece/m<sup>2</sup>  
 Thickness : 80 / 100mm  
 Approx Weight : 180.00 / 225.00kg





Kuantan

# GEOPAVE



## Geopave

Size : 200mm x 200mm  
 Area Coverage : 25 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60 / 80mm  
 Approx Weight : 4.90 / 6.50kg



Bandar Hilir

# HEXALOCK



**New!**

## Hexalock

Size : 179mm x 168mm  
 Area Coverage : 45 pieces/m<sup>2</sup>  
 Thickness : 80mm  
 Approx Weight : 3.75kg



Raub





Kuala Langat

# PRIME PAVERS



Size : 200mm x 200mm  
 Area Coverage : 25 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60 / 80mm  
 Approx Weight : 6.00 / 6.80kg



Kuala Langat



Size : 200mm x 400mm  
 Area Coverage : 12.50 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60mm  
 Approx Weight : 10.42kg



Size : 400mm x 400mm  
 Area Coverage : 6.25 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60mm  
 Approx Weight : 22.00kg



Kuala Langat



Size : 400mm x 600mm  
 Area Coverage : 4.16 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60mm  
 Approx Weight : 33.00kg



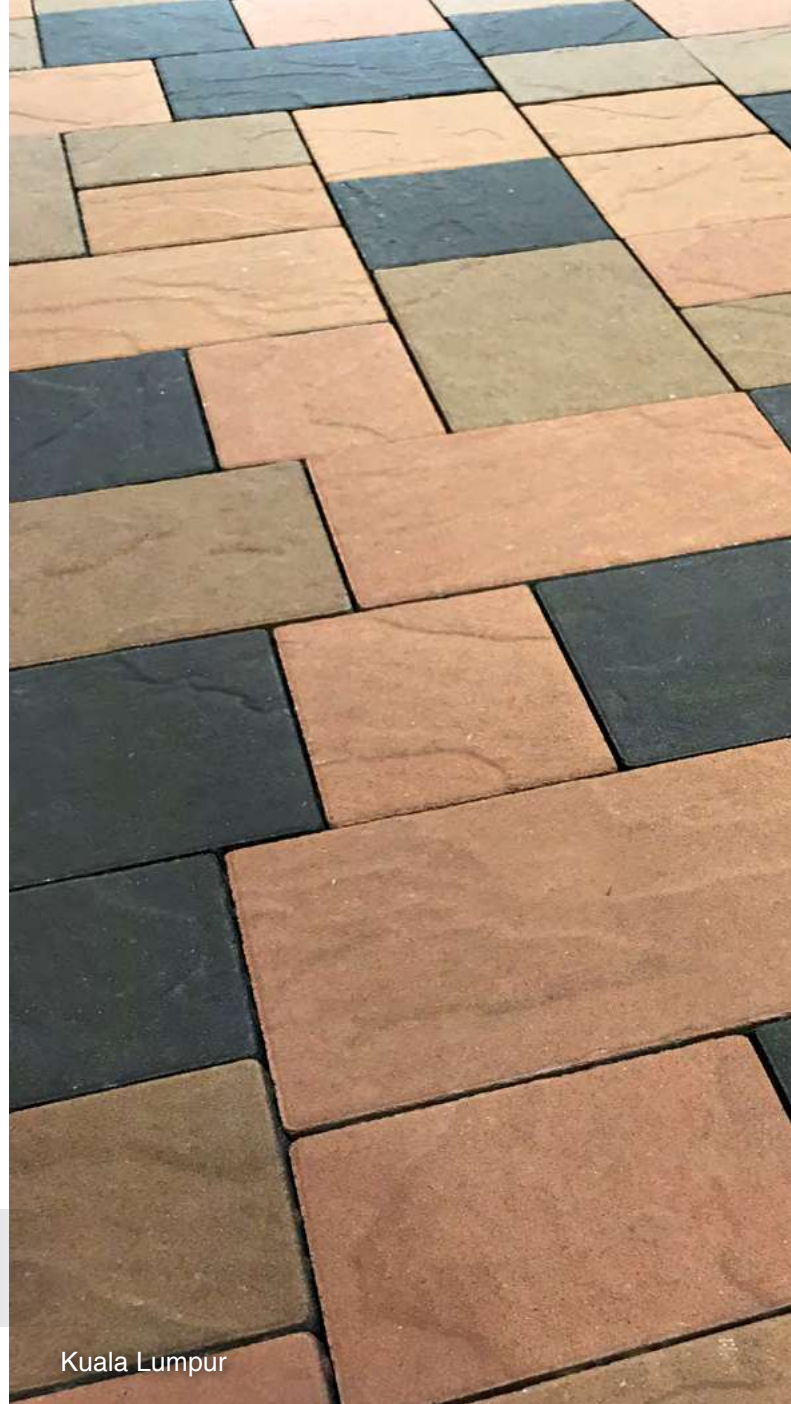
Size : 600mm x 600mm  
 Area Coverage : 2.78 pieces/m<sup>2</sup>  
 Thickness : 60 / Z60mm  
 Approx Weight : 49.00kg





## MULTIPLE SIZE

Johor Bahru



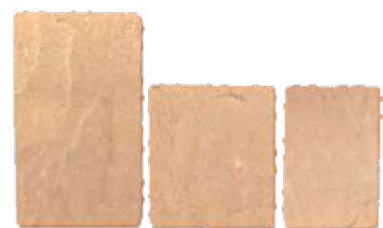
Kuala Lumpur



### M I

Size (mm)	Thickness (mm)	Approx Weight (kg/pcs)	Area Coverage (pcs/m2)
201 x 201	80	7.00	4 sets
201 x 268		9.60	
201 x 335		11.70	
268 x 335		15.50	

\* Only sold in full set of 4 pcs.



### M II

Size (mm)	Thickness (mm)	Approx Weight (kg/pcs)	Area Coverage (pcs/m2)
120 x 160	60 / Z60	2.35	12 sets
160 x 160		3.15	
160 x 240		4.60	

\* Only sold in full set of 3 pcs.





Petaling Jaya

## SR PAVE (SPEED REDUCER PAVERS)



### SR Pave

New!

Size : 200mm x 200mm  
Area Coverage : 25 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 6.8kg

### Special Feature:

- Act as a barrier to reduce the vehicle speed when approaching road junctions, roundabouts, pedestrian crossings, road humps and other dangerous areas or premises
- Consist of 2 line transverse bars that will provide speed bump effect (sound and vibration)
- It comes with Reflective Yellow/ White for long lasting effect (R Series)



# PRIME LOCK



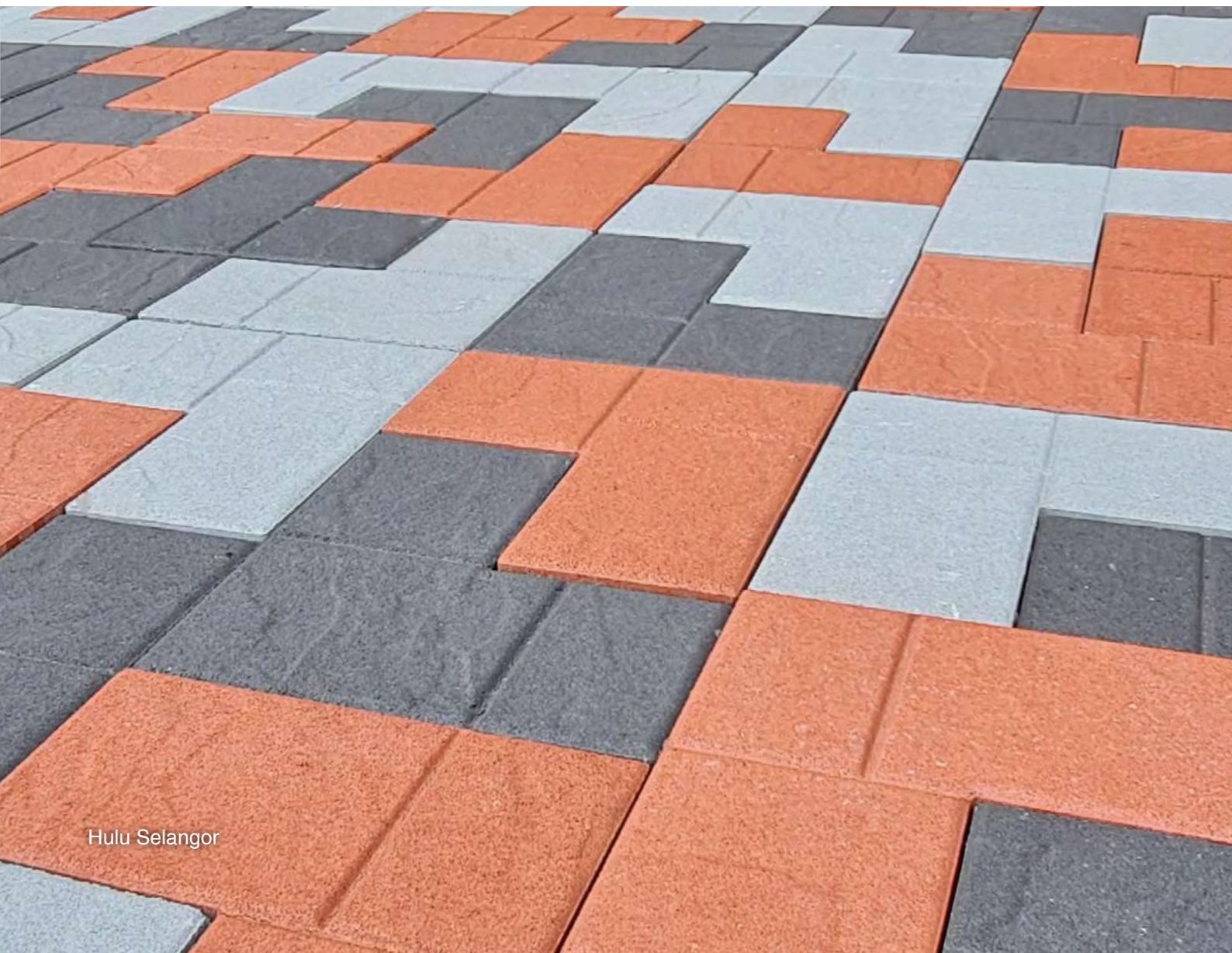
## Prime Lock



Size : 300mm x 300mm  
Area Coverage : 14.8 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 11.93kg

### Special Features:

- A L-shaped prime paver with enhanced spacer that gives the pavement better locking properties among each pieces
- The uneven rock surfaces finishing giving the pavement a different vibe of naturalistic look





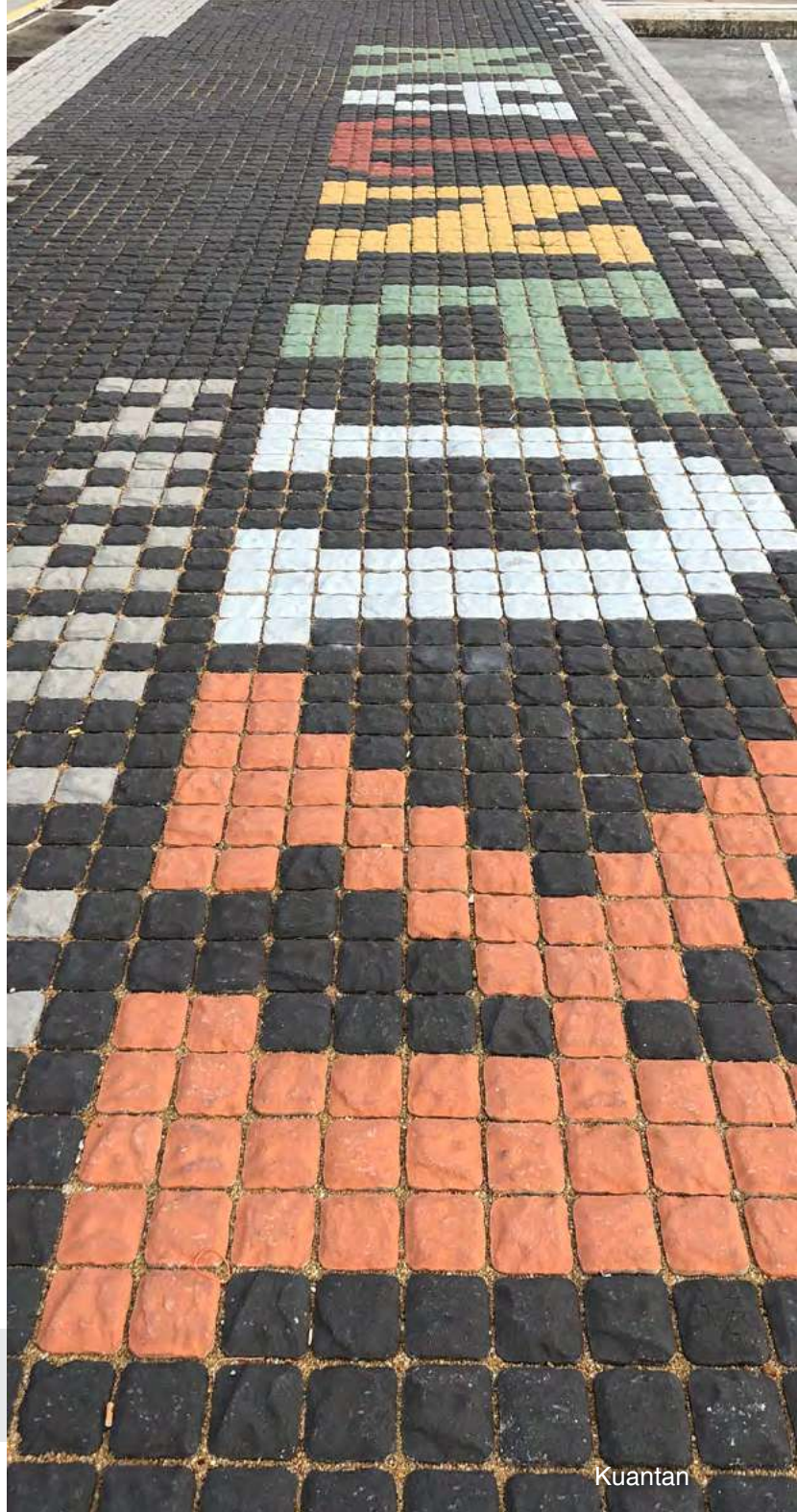


Johor Bahru



## COBBLEPAVE

Kuala Langat



Kuantan



### Cobblepave

Size : 100mm x 100mm  
 Thickness : 100mm  
 Approx Weight : 2.20kg



### Cobblepave 2.0

Size : 125mm x 125mm  
 Thickness : 80mm  
 Approx Weight : 2.40kg



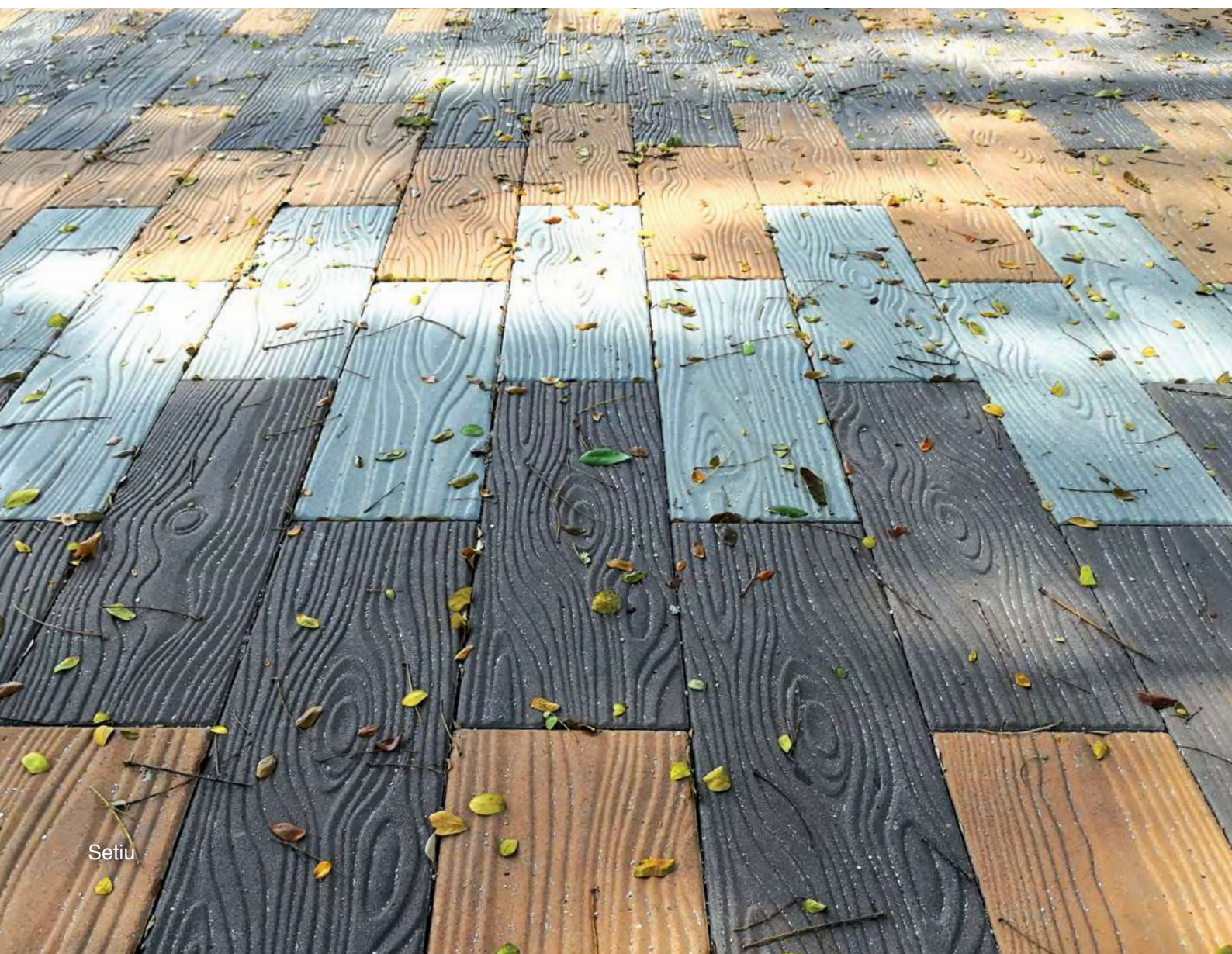


# WOOD PAVERS



Size : 200mm x 600mm  
Area Coverage : 8.33 pieces/m<sup>2</sup>  
Thickness : 60 / Z60mm  
Approx Weight : 14.50kg

Setiu



Setiu





# LED PAVERS

Kuala Langat

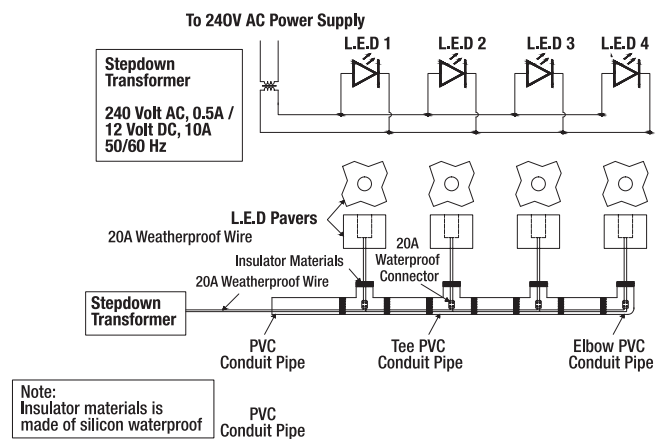


Size : 111mm x 111mm  
Area Coverage : 78.9 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 2.00kg

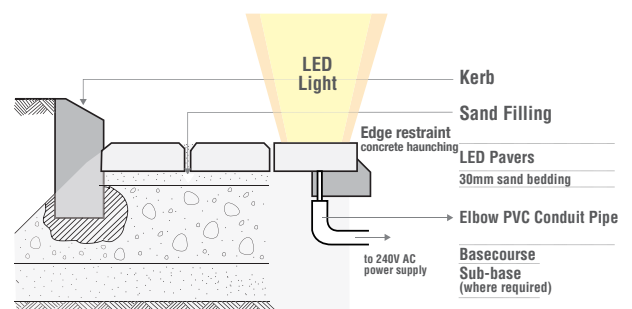


Size : 100mm x 200mm  
Area Coverage : 49.5 pieces/m<sup>2</sup>  
Thickness : 80mm  
Approx Weight : 3.40kg

## L.E.D Pavers Installation



## Typical Pavement Cross-section





# NEUPAVE



**HONOUR  
AWARD**

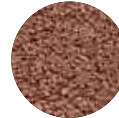
Supplier & Manufacturer Category  
Green Product Awards



## THICKNESS

60MM - 30MPa  
80MM - 45MPa

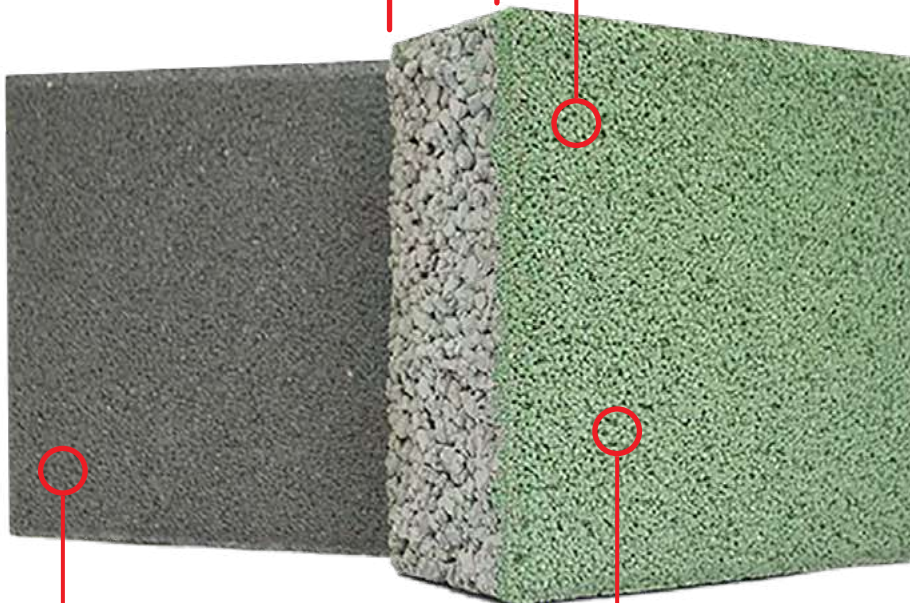
## FINISHES



**Fine Finish**  
(10 - 12% Porosity)  
Infiltration rate:  
Approx. 150 litre / min / m<sup>2</sup>



**Rough Finish**  
(15 - 17% Porosity)  
Infiltration rate:  
Approx. 300 litre / min / m<sup>2</sup>



## COLOURS

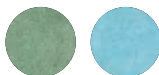
Standard



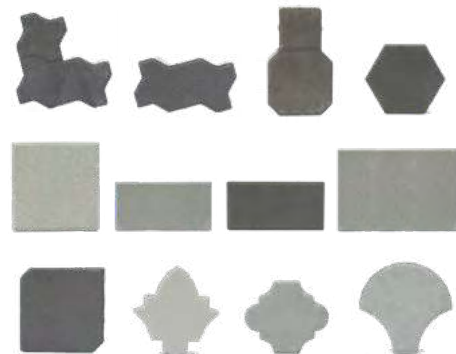
Premium



Supreme



## PROFILES



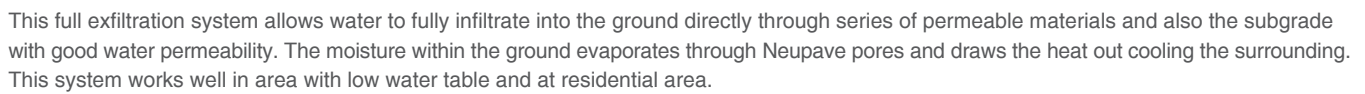
As the first in Malaysia to manufacture this new paving technology, Neupave is a paving alternative to more traditional types of hardscape flooring materials, where water is now allowed to permeate through the surface to underlying soil.

Normal concrete pavements do not allow much water to infiltrate particularly if they are mortared in place. The flowing water would normally hit the surface and then flow down to the nearest drainage channel, becoming storm water runoff. Neupave differs vastly from the

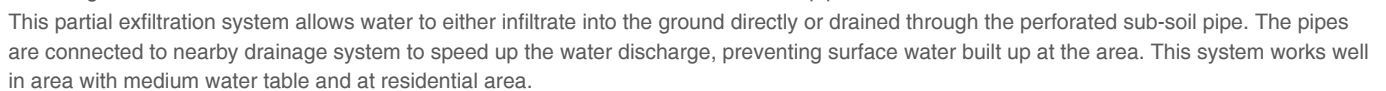
above as its hard surfacing allows water to percolate to an underlying reservoir base. Permeable pavement can be used instead of standard concrete for surfacing sidewalks, driveways, parking areas and many types of pavement surfaces. As the usual concrete is considered to be impermeable, water that falls usually stays on the surface and cannot flow through the surface to the soils below, but rather runs to the lowest points to be drained away.



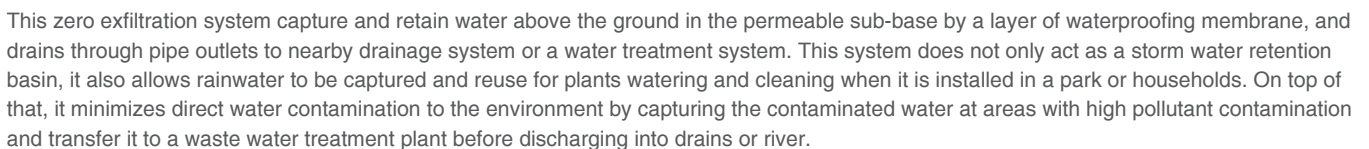
## Reduce Heat Island Effect



## Storm Water Management



## Rain Water Harvesting







Klang



Petaling Jaya



Shah Alam



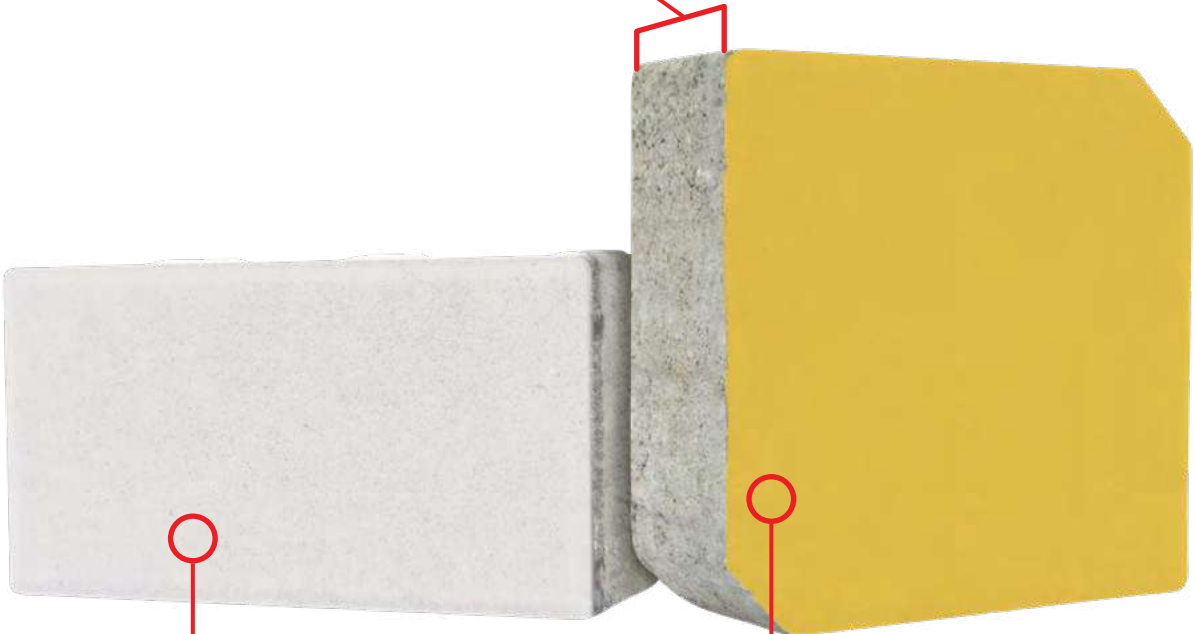
Selangor



# R SERIES (REFLECTIVE PAVERS)

## THICKNESS

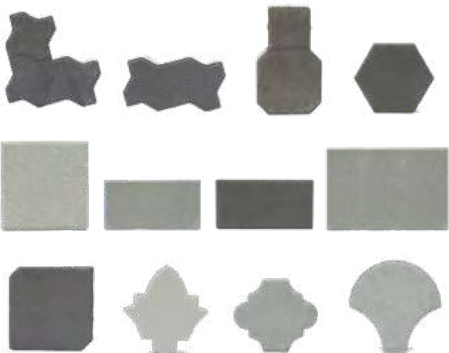
60MM - 30MPa  
80MM - 45MPa



## COLOURS



## PROFILES



## COLOUR QUALITY COMPARISON



R Series Yellow  
(Reflective At Night)



Normal Yellow



Nusajaya



Seberang Perai





Temerloh



Petaling Jaya



Nusajaya



Seberang Perai



Petaling Jaya

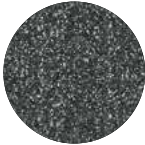


# BLINK SERIES

THICKNESS




60MM - 30MPa  
80MM - 45MPa

FINISHES








COLOURS



Standard







Premium











Supreme



PROFILES











# SUNWAY®

A member of Sunway Group

## SUNWAY PAVING SOLUTIONS SDN BHD

### REPAIR AND MAINTENANCE

INTERLOCKING CONCRETE PAVERS  
COMPRESSED CONCRETE SLABS (EUROTILES)



Please Call Hotlines :

**03 - 5639 9929**

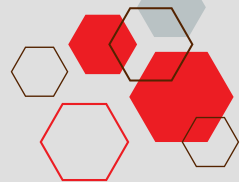
**03 - 5639 9317**



Sunway Paving Solutions Sdn Bhd



[www.sunwaypavingsolutions.com](http://www.sunwaypavingsolutions.com)





# TECHNICAL SPECIFICATION

## Malaysia's 1<sup>st</sup> Algae Resistance Interlocking Concrete Pavers (ICP)

Interlocking Concrete Pavers (ICP) by Sunway Paving Solutions Sdn Bhd (SPS) were developed to ensure the surfaces of our ICPs are free from algae growth, as it is commonly happened on almost all other places. Our ICPs are algae resistance up to 80%, where our R&D department has undergone many research over the years and we are proud to say that we are Malaysia's 1<sup>st</sup> Algae Resistance Interlocking Concrete Pavers since 2013, to have such properties in all of our product range except for Neupave.

### Algae Resistance Trial Products since 2013



With Algae Resistance Properties Application



Without Algae Resistance Properties Application

### Algae growth test result on SPS ICPs

Identification No.	Algae Growth Area (%)	Rating
SPS Control 01	1.6 : Trace of growth	1
Sample 01	0 : None	0
Sample 02	0 : None	0
Sample 03	1 : Trace of growth	1
Sample 04	0 : None	0
Sample 05	0 : None	0

Note: 0: None, 1: Traces of growth (less than 10%), 2: Light growth (10 to 30%), 3: Medium growth (30 to 60%), 4: Heavy growth (60% to complete coverage).

## Specification

Thickness	Strength	Application	**Typical Basecourse Requirements	
			Type of Material	Recommended Thickness
60mm	30MPa	Pedestrian traffic ie. Footpath, Bicycle Track, Jogging Track, Park & Garden Landscape, Pool Deck, Patio etc	(a) Quarry Dust (Footpaths)	100 to 150
Z60mm	45MPa	Occasional vehicular traffic ie. Boulevard, Assembly area, Plaza, Buggy Track etc	(b) Crusher Run (Driveways)	225 to 600
80mm	45MPa	Vehicular Traffic ie. Driveway, Drop-off area, Cul-de-Sac, Warehouse, Industrial Area, Temporary Access, Roundabout, Junction, Backlane, Feeder Road, Internal Road, Fire Engine Access etc	(c) Crusher Run (Roads & container yards)	225 to 600
100mm	45MPa	Heavy-Duty Traffic ie. Inland port, maritime port etc	(d) Lean Concrete (Very heavy concentrated loads)	225 to 600

\*Tolerance: Thickness  $\pm 3$ mm Dimension  $\pm 2$ mm

\*\*The recommended basecourse thickness is still subject to CBR test on sub-base and subgrade soil conditions.

MS 1380 : 1995 (Specification for Precast Concrete Paving Blocks)

BS EN 1338 : 2003 (Specification for Concrete Paving Blocks)

BS 6717 : 1993 (Specification for Precast Concrete Paving Blocks)

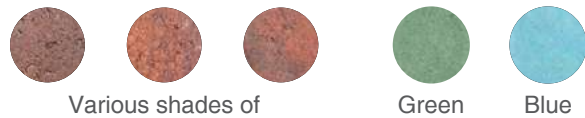
## Colour Selection

### Standard Colour



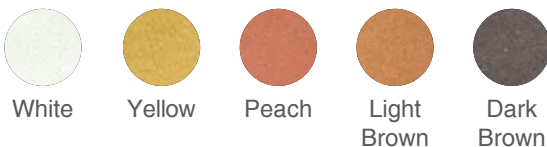
Red Natural Grey Black

### Supreme Colour



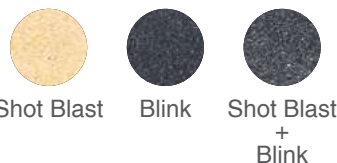
Various shades of Antique Green Blue

### Premium Colour



White Yellow Peach Light Brown Dark Brown

### Added Effect



Shot Blast Blink Shot Blast + Blink

Colours can be custom-made to suit your design requirement.

Finished product colour may vary, subject to the colour of sand, cement and colour pigments used at the time of production.

## Efflorescence

This superficial phenomenon is commonly found in most concrete-based or cementitious products. However, this efflorescence effect will disappear over time (weathering) whereby rain usually washes the efflorescence away in about six months to a year and in the worst-case scenario could take up to two years.



# INTERLOCKING CONCRETE PAVERS (ICP) STANDARD

	Standard		
	MS 1380 : 1995	BS EN 1338 : 2003	BS 6717 : 1993
Use in	Malaysia only	International	International, (superseded by BS EN 1338:2003, but still accepted in Singapore)
Physical Properties	Length $\pm$ 2mm Width $\pm$ 2mm Height $\pm$ 3mm	Length $\pm$ 2mm Width $\pm$ 2mm Height $\pm$ 3mm	Length $\pm$ 2mm Width $\pm$ 2mm Height $\pm$ 3mm
Compressive Strength	> 45MPa	N/A	> 49MPa
Abrasion	$\geq 1.5^a$	$\leq 23\text{mm}^b$ $\leq 20,000\text{mm}^3/5000\text{mm}^2$ <sup>c</sup>	N/A
Water Absorption	N/A	$\leq 6\%$	N/A
Tensile Splitting Strength	N/A	> 3.6MPa (Failure load >250N/mm)	N/A
Slip/ Skid Resistance	N/A	Minimum value <sup>d</sup>	N/A

Note:

MPa = MegaPascal (N/mm<sup>2</sup>)

<sup>a</sup> Abrasion Test using Drill method (Method no longer practical).

<sup>b</sup> Abrasion Test using Wide Wheel method (BS EN 1338:2003 Annex G). Conducted at SPS.

<sup>c</sup> Abrasion Test using Böhme Test (BS EN 1338:2003 Annex H). Conducted at SIRIM.

<sup>d</sup> Average of three (3) values. Higher value indicates better slip/skid resistance.

## INSTALLATION PROCEDURE



### Basecourse

Based on the existing sub-grade / soil conditions and the anticipated traffic loading into consideration, an adequate thickness of well compacted basecourse must be provided to ensure good pavement performance. Any existing bituminous or concrete surfaces need not be removed and can act as good base.



### Sand Bedding Layer

A layer of sand should be loosely spread and screeded to a uniform thickness such that its compacted thickness would be approximately 30mm. It is important that the layer of sand remains undisturbed prior to the laying of paving blocks.



### Laying The Blocks

Paving blocks are placed side by side on the sand bed with gaps of approximately 2mm between adjoining blocks.



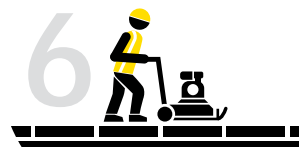
### Blocks Cut To Fit

Paving blocks can be cut to fit edges and awkward corners.



### Sand Infill

Fine sand is brushed in to fill gaps in between paving blocks. Hand-guided plate vibrator is applied once again to ensure that sand filling in the gaps are fully compacted to stabilize the paving blocks pavement.



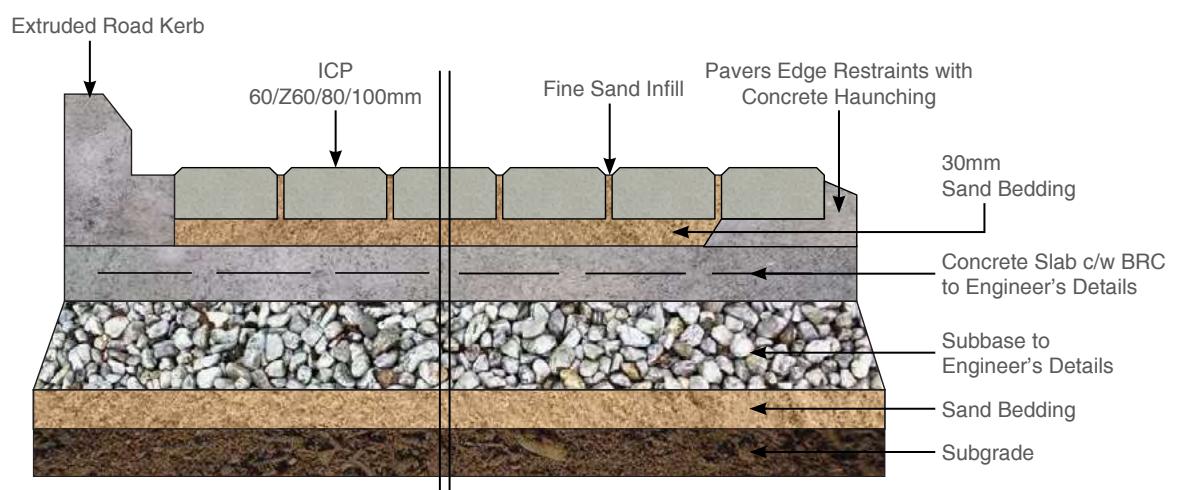
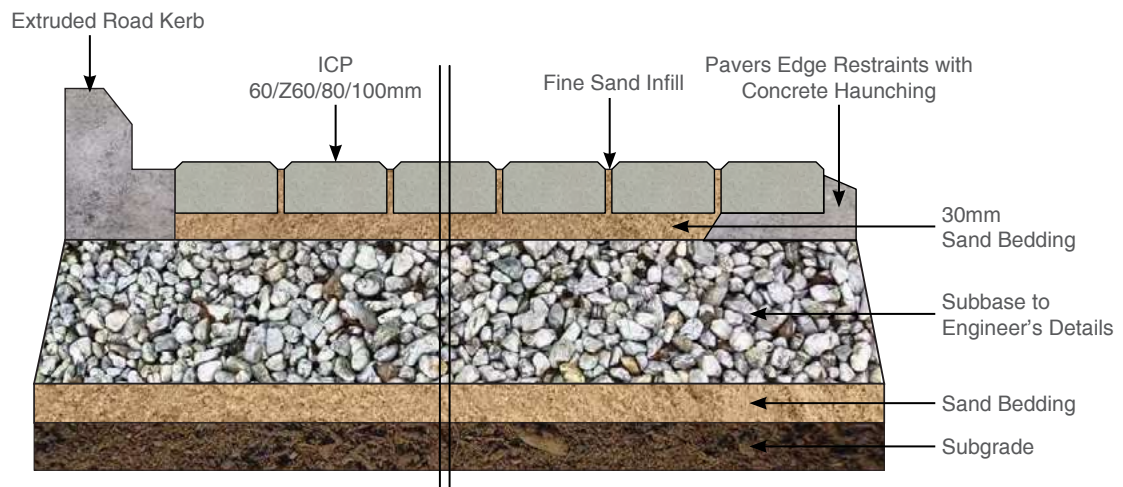
### Pavement Compaction

Paving blocks pavement is compacted with a hand-guided compactor until it is firmly embedded in the sand layer.

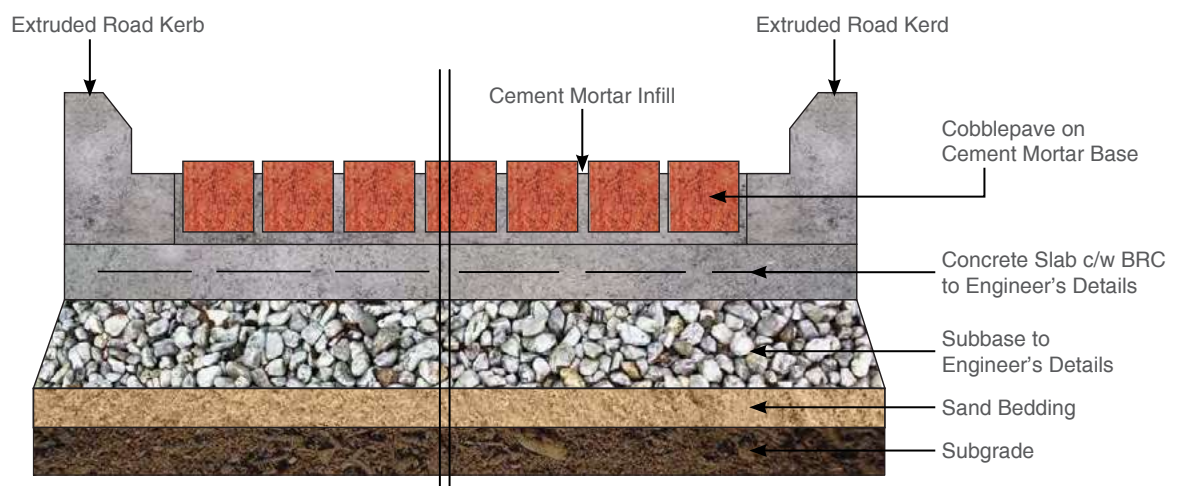


# TYPICAL CROSS SECTION

## Interlocking Concrete Pavers (ICP)

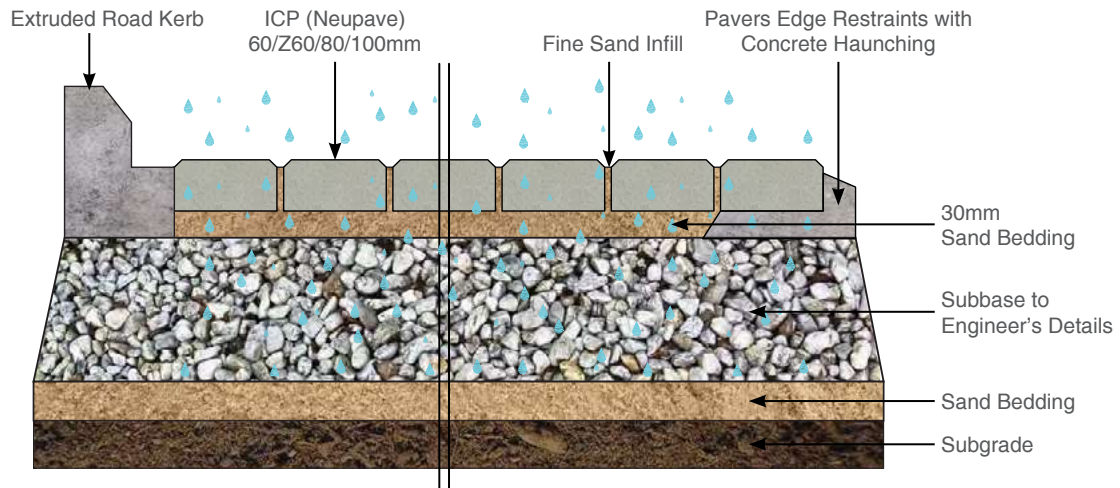


## Cobblepave



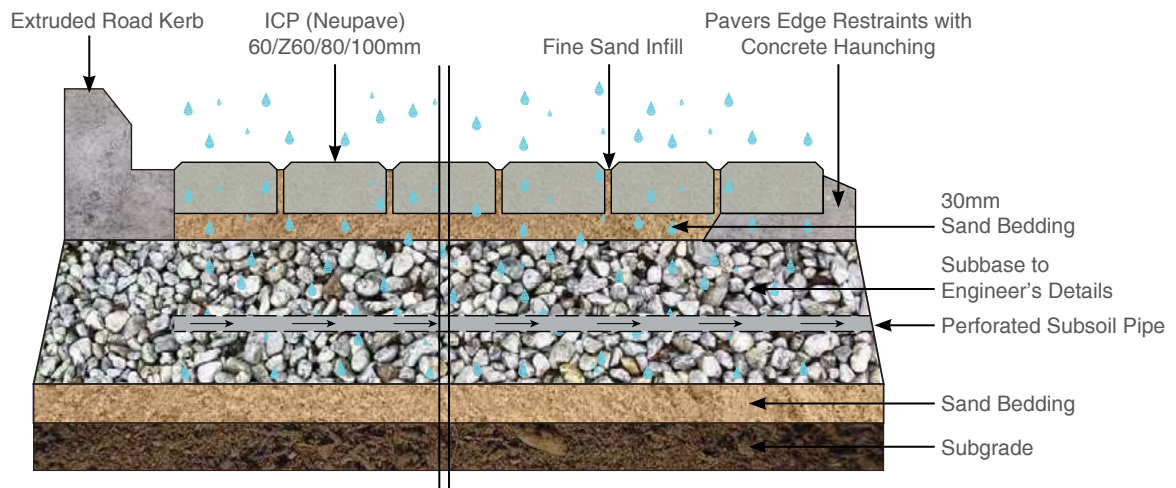


## Neupave - System A (Full Exfiltration)



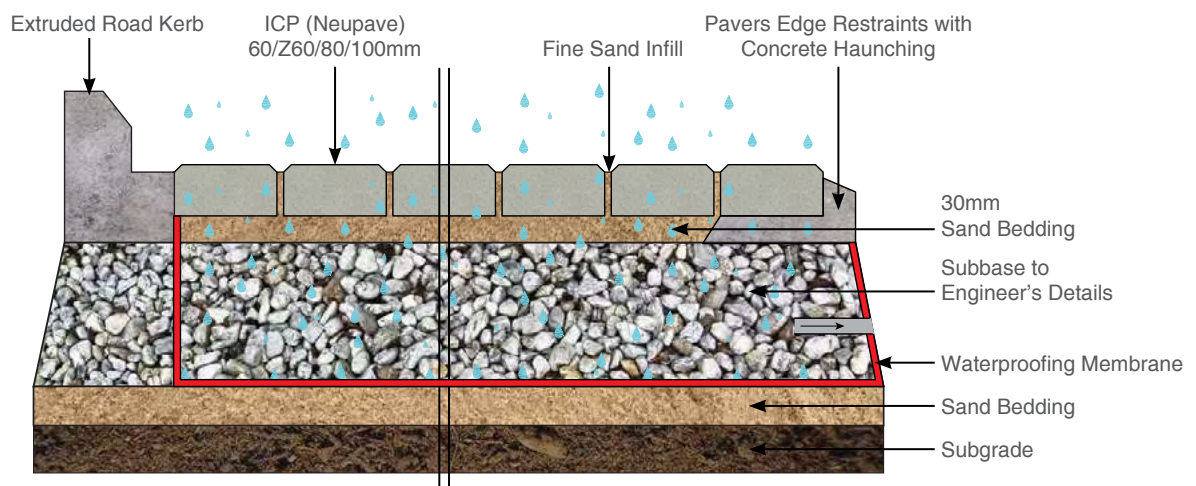
All water falling onto the NeuPave infiltrates down through the pavers, passing through the aggregate layers, and eventually into sub-grade. The sub-base shall act as temporary storage device.

## Neupave - System B (Partial Exfiltration)



Similar to System A, but with a series of perforated subsoil pipe at the bottom of sub-base. This is to extract out the remaining water.

## Neupave - System C (Zero Exfiltration)



Used for complete capture of water using as waterproofing membrane at the bottom of sub-base. Pipes can be fixed to have restricted outflow from the system.

*Note: Subject to engineer's specifications*



# SUNWAY®

## BUILDING MATERIALS

AON®

**BESTEMPLOYERS**

MALAYSIA | 2016

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MALAYSIA | 2018

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Registration No. 198101011363 (77490-W)

A member of Sunway Group

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**NEUPAVE**



MS ISO 9001:2015  
CERT. NO.: QEMS 01135



MS ISO 45001:2018  
CERT. NO.: OHS 00894



MS ISO 14001:2015  
CERT. NO.: EMS 00655



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