

# CONSENT

Pavers

Tiles

Kerbstones

Walls

Boardwalks

Bespoke Products



ALL  
YOU  
NEED

For your  
concrete  
hardscape  
project

+ 12 NEW PRODUCTS ADDED!



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# WELCOME

For those seeking the very best hardscape products to suit their designs, this brochure provides the inspiration and information needed to make the best possible product choices.

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For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



# THE ART OF CONCRETE

AT CONSENT, IT'S ALL ABOUT YOU

“Quality can never be an accident. It requires will and skill to produce it and with over 46 years of experience in the concrete industry, you can trust us to deliver.”

2021 marks the 46<sup>th</sup> anniversary for Consent as the preferred destination for quality concrete products in the Middle East. With an extensive product selection, a variety of licensed products from well renowned international brands as well as the ability to custom make products to your liking, Consent has grown to become the leading and most trusted manufacturer and supplier of concrete hardscape products.

With three factories serving not only local orders but also international, we are proud to be part of many

inspiring and landmark projects around the world.

Here at Consent we strive to be the very best at what we do. Times change, tastes differ and so we consider it of the utmost importance to continuously invest and update our machinery in order to bring you the latest and best in concrete products. With this in mind, we are delighted to invite you to explore the dozens of exciting new product lines added. We hope that this catalogue helps inspire you and that our products can bring your wonderful designs to life.



# OUR FACTORIES

A QUICK OVERVIEW OF OUR BRANCHES



## AL QUOZ INDUSTRIAL AREA

Consent's head office; this is where it all started in 1975. Currently home to our research and development department as well as the mockup garden, exciting new expansions are expected to begin soon so stay tuned!



## JEBEL ALI FREE ZONE AREA

Opened in 2007, this is Consent's largest factory and second branch, producing over 2 million sqm of concrete products per year.



## DUBAI INVESTMENT PARK

Thanks to increased demand and project successes, a third branch was opened in 2009 to specialise and focus on concrete street furniture as well as other custom precast products.

## 4 TOP INFO ABOUT US

### 1 OUR FACTORIES

Our three factories are equipped with the latest technology and are fully automated which allows them to work all day, everyday for maximum efficiency and production output. By continually developing new techniques and solutions, we are always able to offer you the highest quality and most appropriate products at attractive prices.

### 2 OUR QUALITY

All our products go through a strict screening process to make sure they adhere to the British and American standards. Because our quality principles start from the very base ingredients, you can be sure that our products are of the highest caliber and, with the proper aftercare, will stand the test of time.

### 3 OUR COMMITMENTS

Our focus is firmly on providing high quality, innovative, concrete hardscape solutions to landscape architects, contractors, civil engineers and homeowners. In addition to providing free samples and timely delivery schedules, we also pride ourselves on our industry leading customer service and support. Buying concrete has never been easier or friendlier.

### 4 OUR MOTTO

At Consent, you can expect attention to detail, outstanding quality and a fantastic range of products. If you are looking for great products without the hassle, this is what you'll get. Your word is our design, your concepts - our products. So get in touch with us today so that we can help you make concrete decisions from your creative ideas.





## CONSENT R&D LAB

Research and development make up the essential core of Consent. In addition to having external testing done, at Consent we also carry out internal testing of aggregates to ensure quality before production even begins. Post-production, our products go through rigorous testing of water absorption, abrasion resistance and have several machinery dedicated to testing the various compressive, transverse and tensile strengths of the product.

As it is our fundamental philosophy to always provide you with the latest and best concrete products, we constantly strive to invest and upgrade our research lab department with state of the art technology. As of such, we are proud to own various specialised high-end machinery such as our weathering machine to check salt attack resistance and our SRI testing device.



We are members of the ICPI as well as an ISO 9001:2015 certified company and are proud to have been awarded the certificate of conformity by both the Dubai Central Laboratory as well as the Abu Dhabi Quality & Conformity Council.







## SUSTAINABILITY

At Consent we take pride in doing the best we can for the environment. Over the years we have refined and re-defined our manufacturing process in order to reduce our power consumption, waste by-products and CO<sub>2</sub> emissions. As of 2015 we have converted to using green concrete for most of our products. While traditional cement emits approximately 900kg of carbon dioxide into the atmosphere for every ton of Portland Cement produced, our green cement cuts that emission by 60%. In addition to this, we are also developing innovative products that are self sustaining such as our smart bench, iStareeh (see page 113) and creating permeable pavers capable of quick drainage (great for controlling and dealing with rainwater overflow during winter) using recycled concrete aggregates.





## RECYCLING

Taking potentially up to 1000 years to decompose, plastic waste is a serious threat to our environment and has become a major global issue. Every year, approximately 315 million metric tons of plastic are thrown into landfills, most of which end up washed into the ocean, endangering the marine life. As a testament to our commitment to the environment, Consent has opened up a plastic recycling factory, transforming unwanted PET products (such as empty water bottles) into plastic straps ready to be used for securing together large bundles. These straps can then later also be recycled again and made into new straps or pellets.

We are proud winners of the 2018 Middle East Waste & Recycling Award ceremony for Best Plastics Recycling Company Of The Year



# OUR INTERNATIONAL PARTNERS

BRINGING YOU THE BEST PRODUCTS **FROM AROUND THE WORLD**



On top of having a fantastic range of products, Consent is proud to announce several partnerships with renowned international companies in order to bring you the best of popular and award-winning concrete products from

abroad. By entering these partnerships, Consent is granted a license to manufacture and export these products, giving you an exclusive range of trusted options to choose from.



## 1 KEYS TONE OMPAC

From the United States of America, we are able to bring you the Keystone Compac retaining wall system thanks to the reputable Keystone retaining wall systems company. For more information, please see page 81.



## 2 ROSETTA<sup>®</sup> WALLS • STEPS • ACCENTS

Also based in the USA, we are proud to bring you the Rosetta retaining wall system from the Rosetta Hardscape company. For more information on this concrete stone with a natural rock appearance, please see page 85.



## 3 KARABLOK<sup>®</sup>

Introducing the possibilities of protection from hostile vehicles is our partnership with prominent British company Karablok. For more information on this concrete block vehicle mitigation system, please see page 97.



## 4 URBA STYLE

Bringing you a fantastic range of stylish and durable outdoor furniture is our collaboration with creative Belgian design company UrbaStyle. For more information please see page 117.



## 5 METEN<sup>®</sup> stein+design<sup>®</sup>

We have partnered up with the prestigious German company Metten to bring you not just one but two of their award winning products. For the well renowned Umbriano paving range, please see page 55. For the elegant Arteso paver please see page 49.



## 6 Stavo block

Brought to you through our collaboration with Stavoblock System, an innovative company based in the Czech Republic, we are excited to showcase the Stavoblock retaining and boundary wall. For more information please see page 93.



## 7 BARABAS<sup>®</sup> STONE DESIGN

From our recent affiliation with dynamic Hungarian company Barabas, we are excited to showcase a new finish called Perfetto. For more information on this versatile finish that can be applied on a variety of paver shapes, please see page 19.



## 8 TERRA FORCE<sup>®</sup>

Our long-term partnership with the distinguished South African company Terraforce brings you both the flexible Terraforce retaining wall range as well as its complimenting 4x4 step block. For more information please see page 77.



## 9 PermaTrak<sup>®</sup>

Thanks to the established Australian brand PermaTrak, we are proud to bring you their durable and flexible concrete boardwalk system, PermaTrak. For more information on how you can save time and money with this system, please see page 103.

# TEXTURE GUIDE

*The different surface finishes are all shown on an N37 sample\**

The surface finish of a product can really change the final look of a space. Choose a rough and rugged finish for a natural, timeworn feel or opt for one of the smoother finishes for a sleek, contemporary look. Even better, mix and match. There are no rules but yours.



## SPLIT

The roughest texture of our range, this gives a very organic rock-like feel

## BUSH HAMMER

This texture is very rough with a hazy, beaten look due to the aggregates being exposed to the core

## SHOTBLASTED

Rough, non slip texture with exposed aggregates. Our most popular finish

## ANTIQUE

Worn, torn and with broken chipped edges, this surface resembles old aged stone



## CURLED

A smooth texture with the slightest hint of bumps from the ground aggregate

## FLAMED

Resembling granite that has been exposed to heat, a smooth texture with occasional pockmarks

## DIAMOND CUT

A smooth, matt texture with a blade cut finish

## SATIN TOUCH

A silky smooth texture with a natural wet look that still remains anti-slip



## HONED

A smooth, matt finish that highlights aggregates

## POLISHED

A very smooth finish with a slightly glossy look

## RIVEN

Textured with natural slate-like patterns

## WOOD

A finish with the aesthetic advantages of wood plus the strength and durability of concrete

\*Please note: We have tried our best to match the textures to the original concrete but due to different screen and printing settings, slight variation may occur. Always request for a free sample before finalizing an order.

# COLOUR GUIDE

INSPIRED BY NATURE

Choosing the right colour can bring a project to life. Producing coloured concrete products for over 46 years, Consent understands this very well and with a wide range of shades available to choose from as well as the ability to match or create custom colours, we are confident that we have what you need.



W11      W12      N32      N58      N47      N37      N34      N04      N66



Y66      T20      Y44      Y29      N44      T42      T16      P26      R68



Y67      S76      T69      B66      D68      D69      C66      C29      C31

THE COLOURS ABOVE ARE JUST A SAMPLE SELECTION, FOR THE FULL COLOUR RANGE PLEASE REQUEST FOR OUR SEPARATE COLOUR GUIDE.

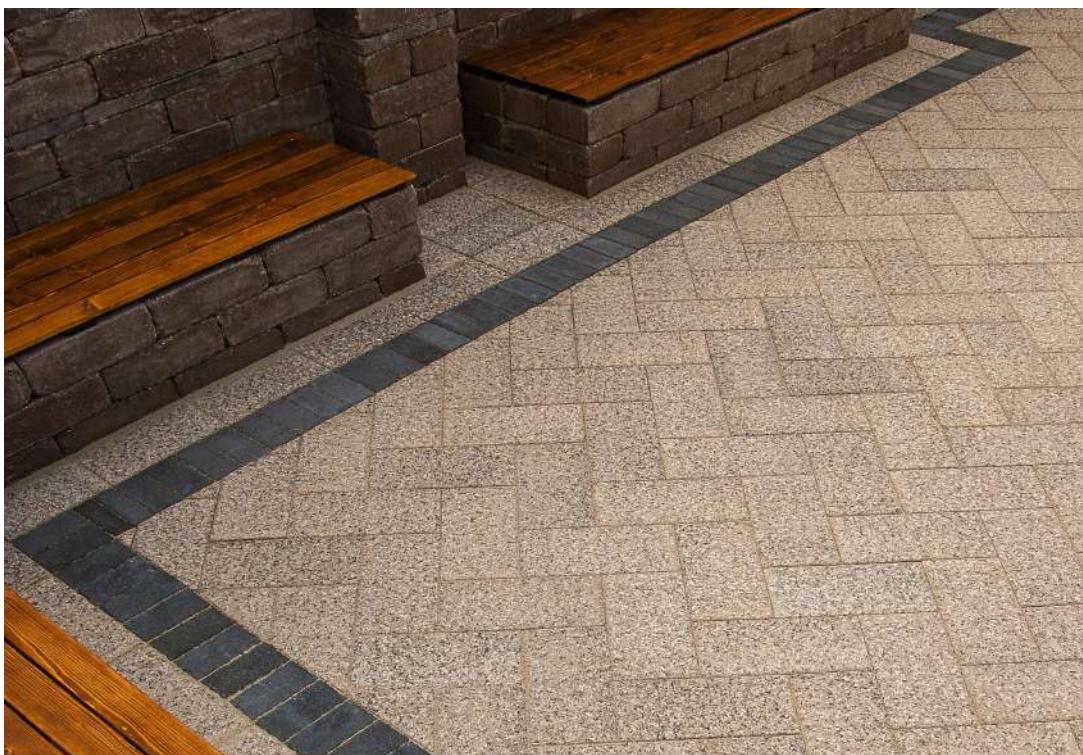
Please note: We have tried our best to match the colours to the original concrete but due to different screen and printing settings, slight variation may occur. Always request for a free sample before finalizing an order.



# PERFETTO FINISH

WHERE COLOUR COMES IN THREES

Like the shape of the Uni paver or other traditional shapes but tired of the same basic colours? Perfetto could be your answer. Brought to you through our collaboration with Hungarian company Barabas, Perfetto is an innovative finish that uses special technology to combine 3 shades together in one, giving off a tricoloured granite surface appearance that can be applied to almost any paver shape. So go ahead and dare to be bold!



## COLOUR OPTIONS



Barna



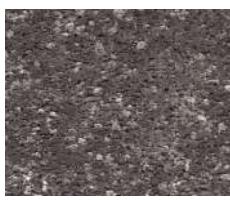
Citron



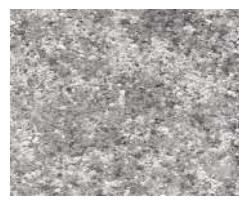
Flame



Rozen



Tigris

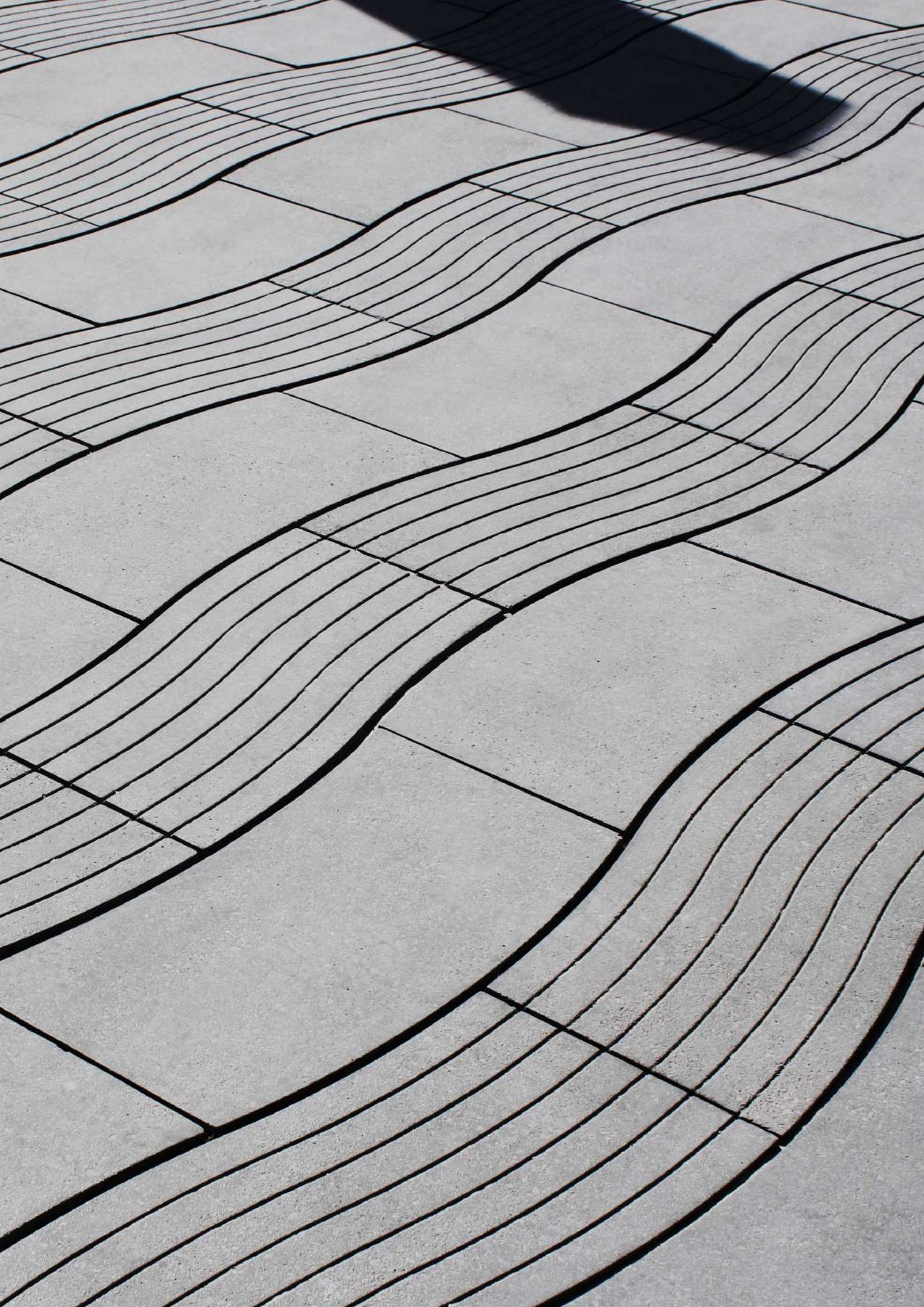


Storm



Silvo

Emerald





# PAVERS

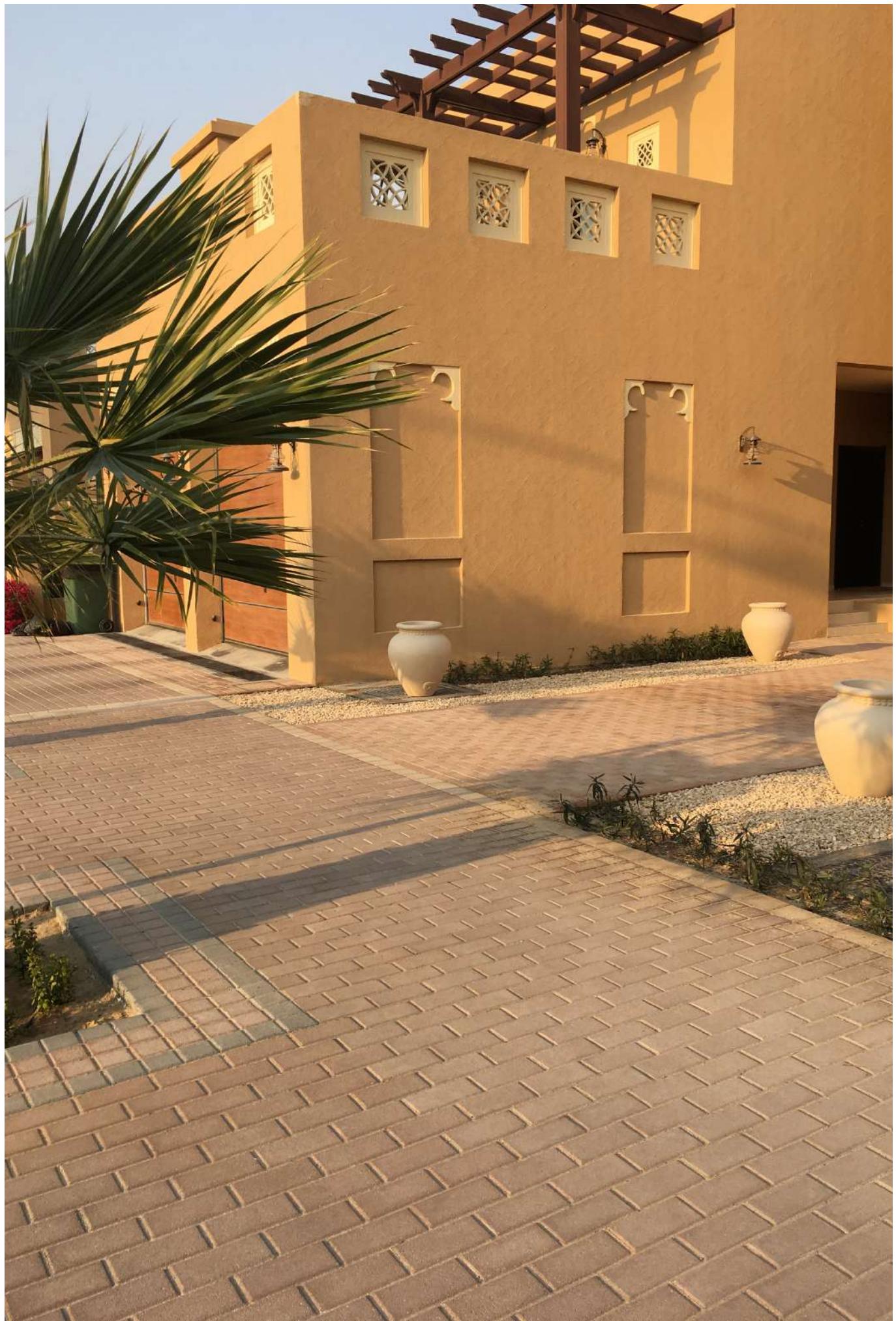
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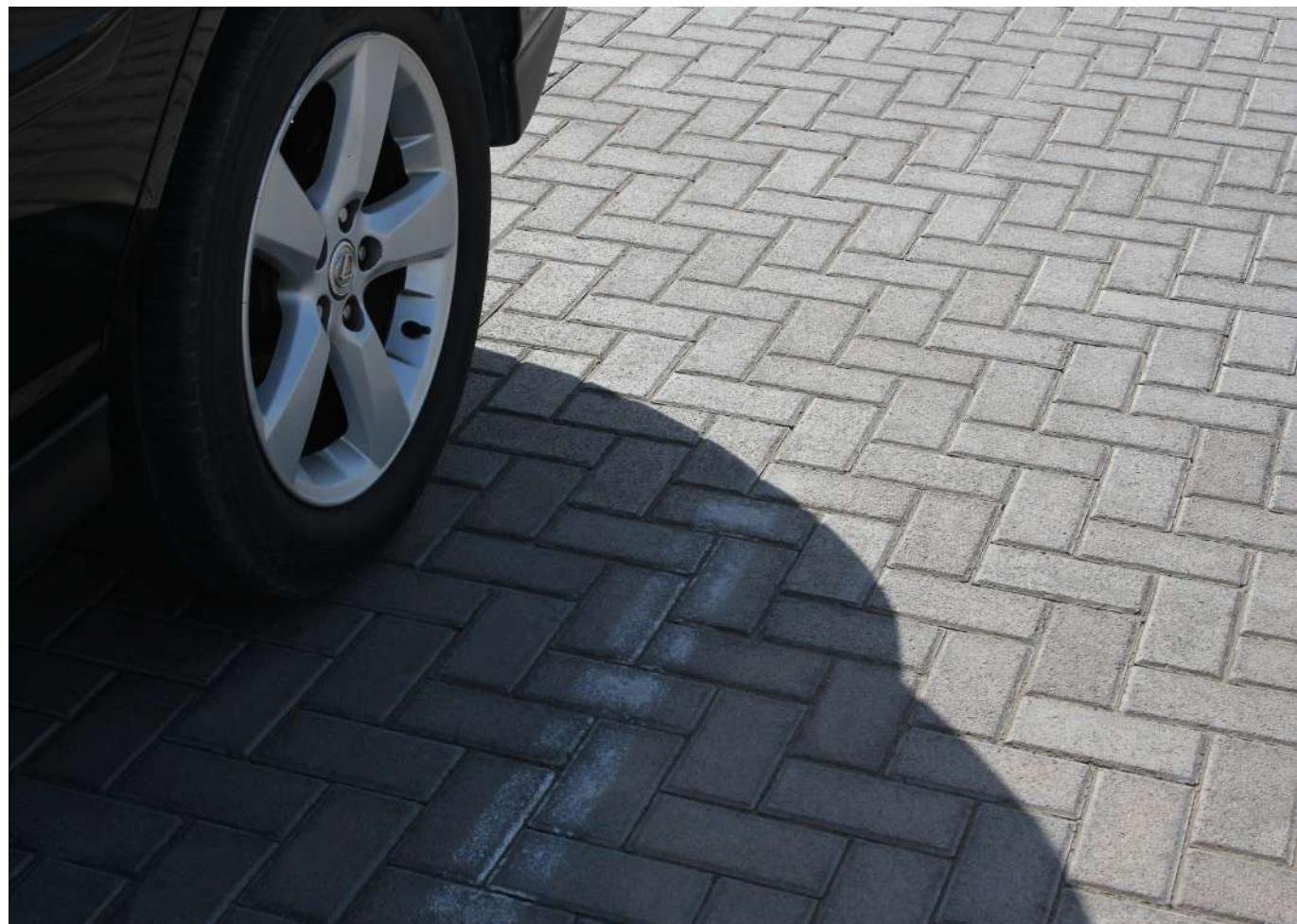
For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



# RECTANGULAR

The traditional choice

*The original and fundamental paver that forms the base for most projects, the **Rectangular** paver is one of the most flexible paving sets of all. Available in several surface textures and in unlimited shades of colour, you can be sure that the **Rectangular** will suit any design template requirements.*



Shape	Length (mm)	Width (mm)	Thickness (mm)
	200	100	60/80/100/120

# RICHMOND

A European impression

Bring a touch of old town charm with **Richmond** pavers. The two-toned colour blend inspired by European clay brick walls will give your design a delightfully rustic appearance.



Shape

Length (mm)

Width (mm)

Thickness (mm)



200

100

60/80

# CORTO

The compact choice

A miniature version of the Rectangular paver, Corto's compact proportions are ideal to create a contemporary statement in a traditional space.



Shape

Length (mm)

Width (mm)

Thickness (mm)



150

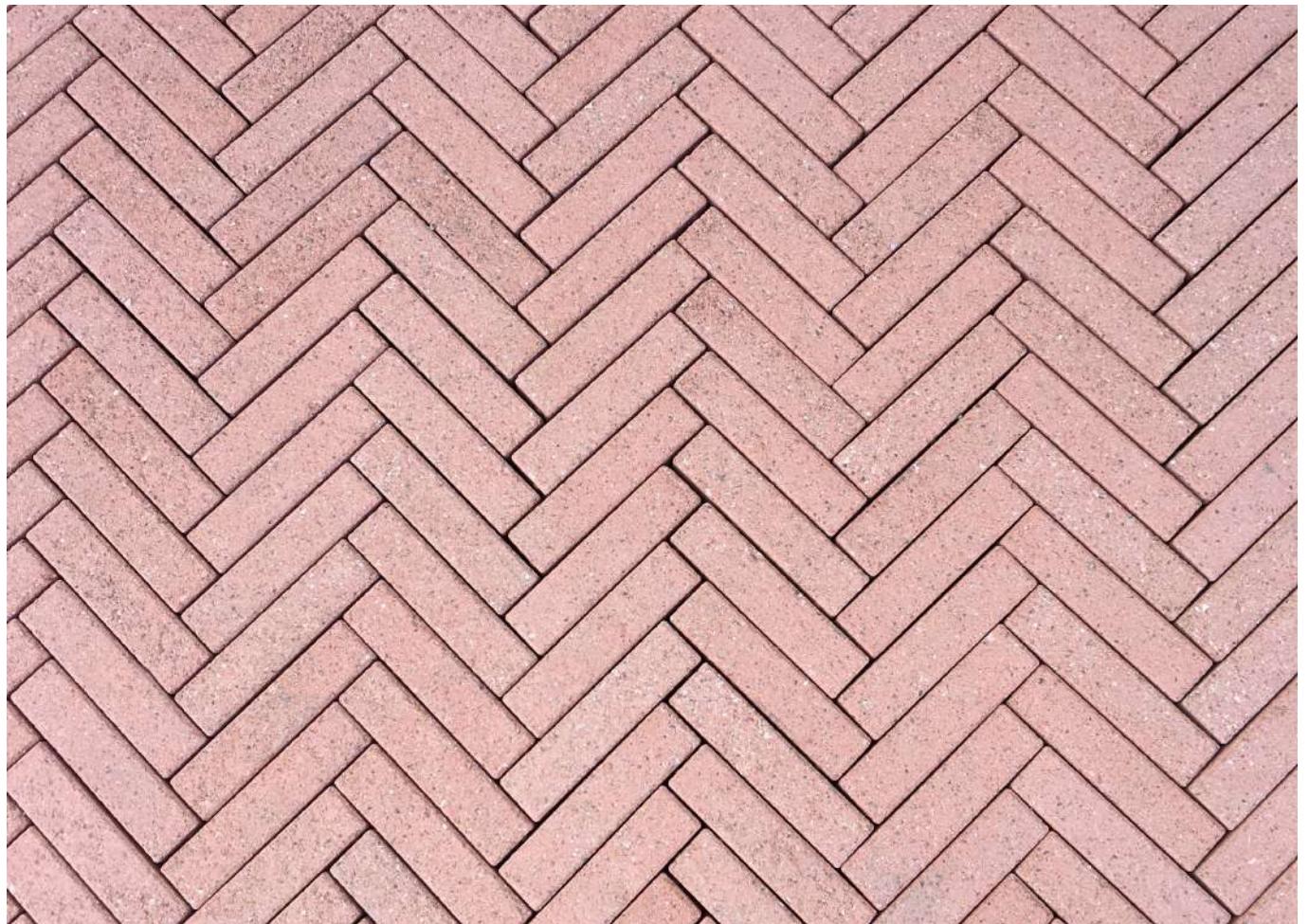
75

80

# DELGADO

Slim and elegant

*Delgado pavers are the perfect choice for those wanting a traditional look but with a twist. Channel the European style by combining these pavers in a shade of red using a herringbone pattern.*



Shape

Length (mm)

Width (mm)

Thickness (mm)



200

50

100

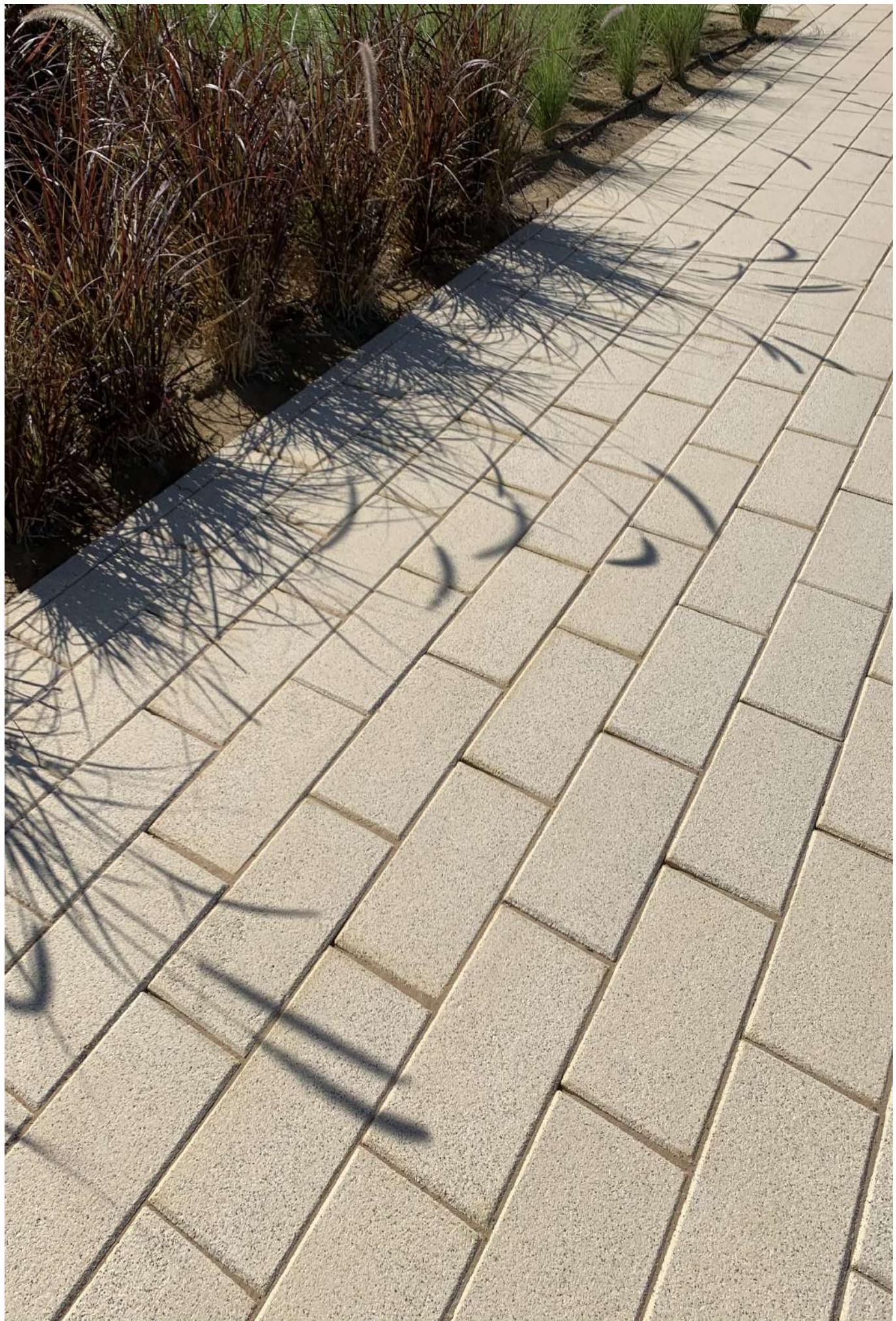
# TRENTA

Sleek and modern

Offered in several widths, **Trenta** can transform your property especially when combined with Rectangular pavers in a subtle yet sleek pattern. Customise **Trenta** pavers using any of our available shades and textures for a look that is exclusively yours.



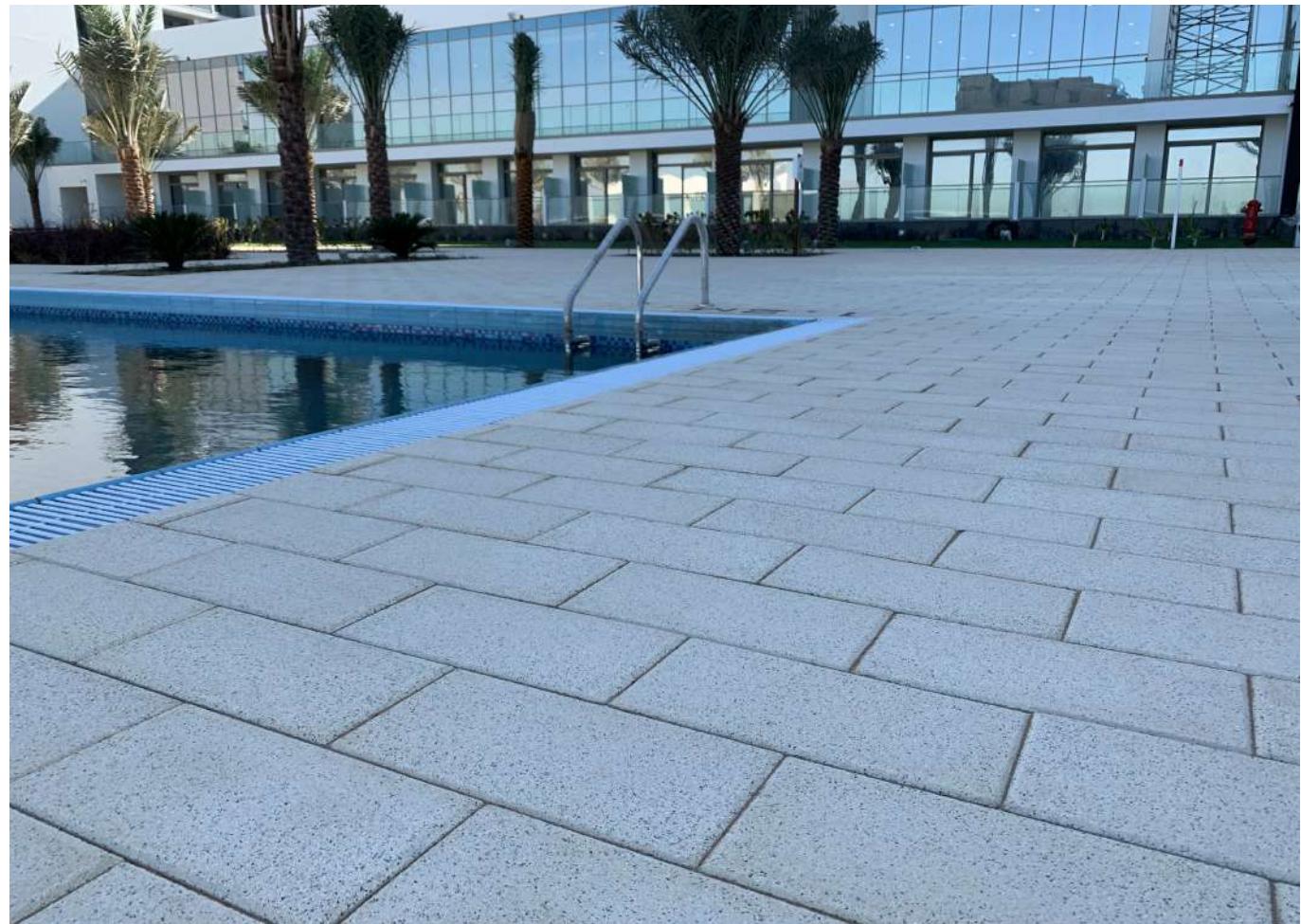
Shape	Length (mm)	Width (mm)	Thickness (mm)
1	300	100	60/80
2	300	150	60/80
3	300	200	80
4	300	450	80
5	300	900	80



# FIORA

A classic look

Channelling uptown charm with its clean, modern lines, **Fiora** makes fantastic border accents or can be used on its own to create an impressive statement.



Shape	Length (mm)	Width (mm)	Thickness (mm)
	400	100	80
	400	150	60/80
	400	200	60/80
	400	300	80
	400	800	60/80



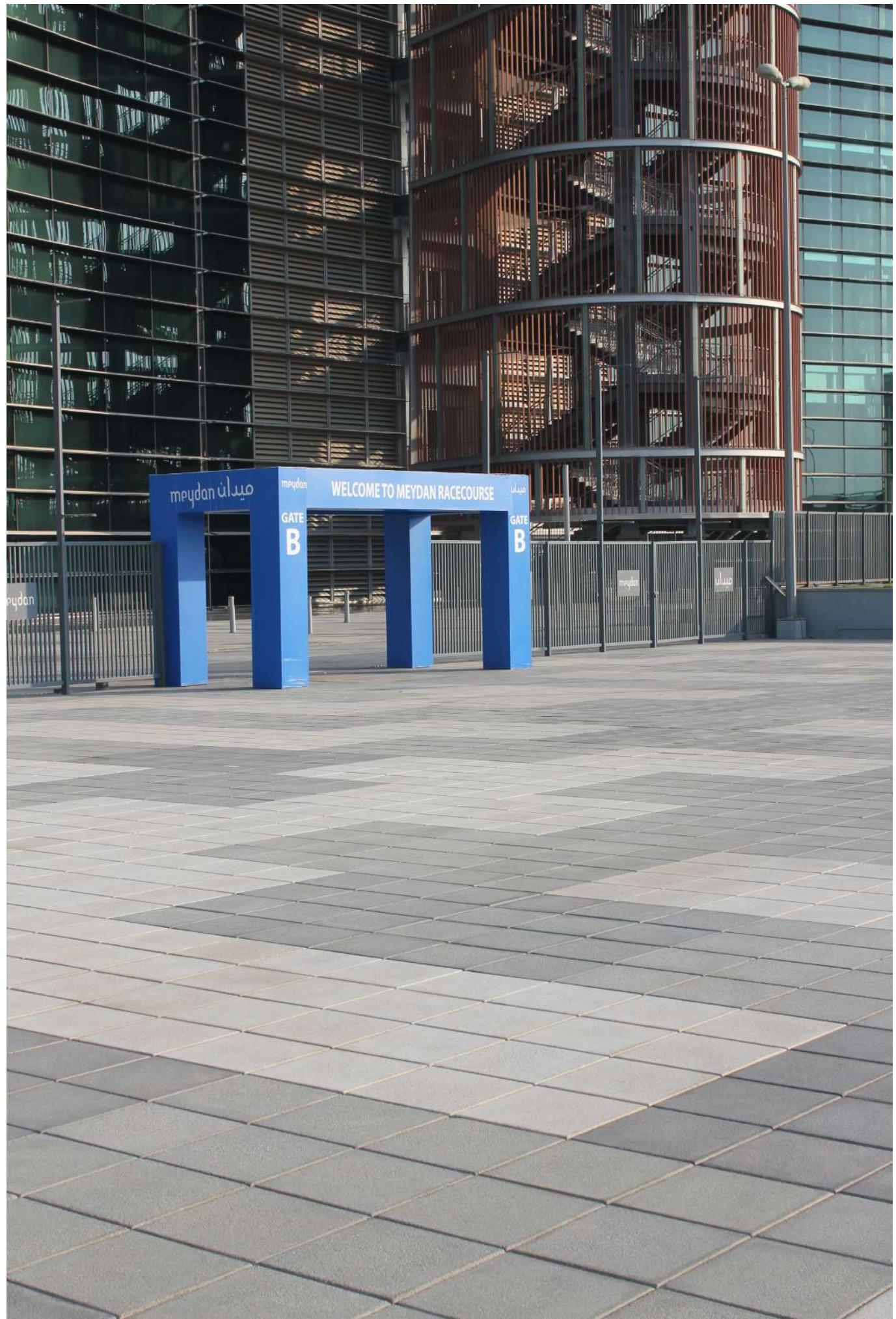
# AMPLIO

Contemporary and chic

For a paver that will give your design a sense of space and depth, **Amplio** is a fitting option. Available in three widths, the distinctive, linear shape helps turn outdoor areas into sophisticated spaces.



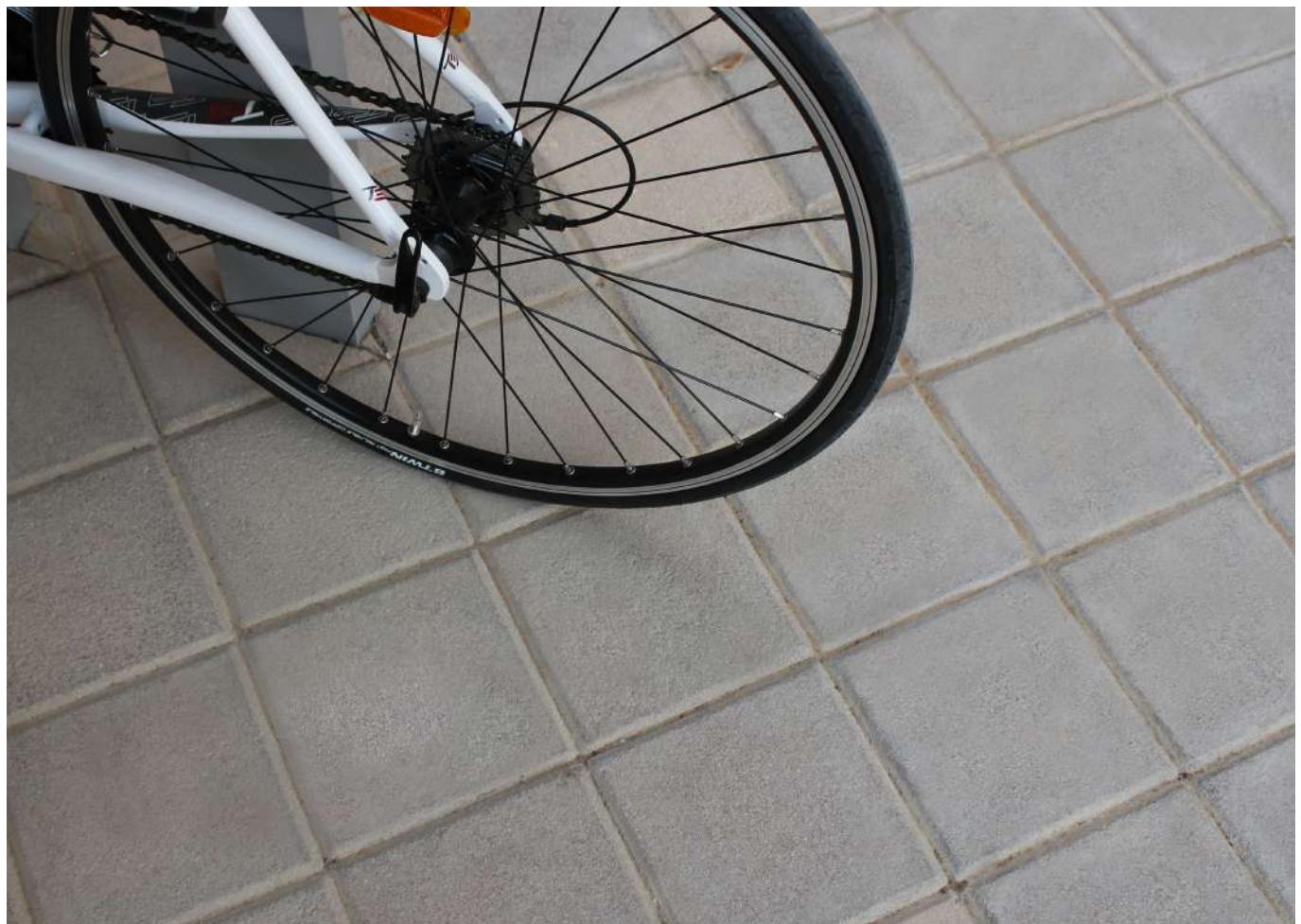
Shape	Length (mm)	Width (mm)	Thickness (mm)
	600	150	60
	600	200	60/80
	600	300	60/80



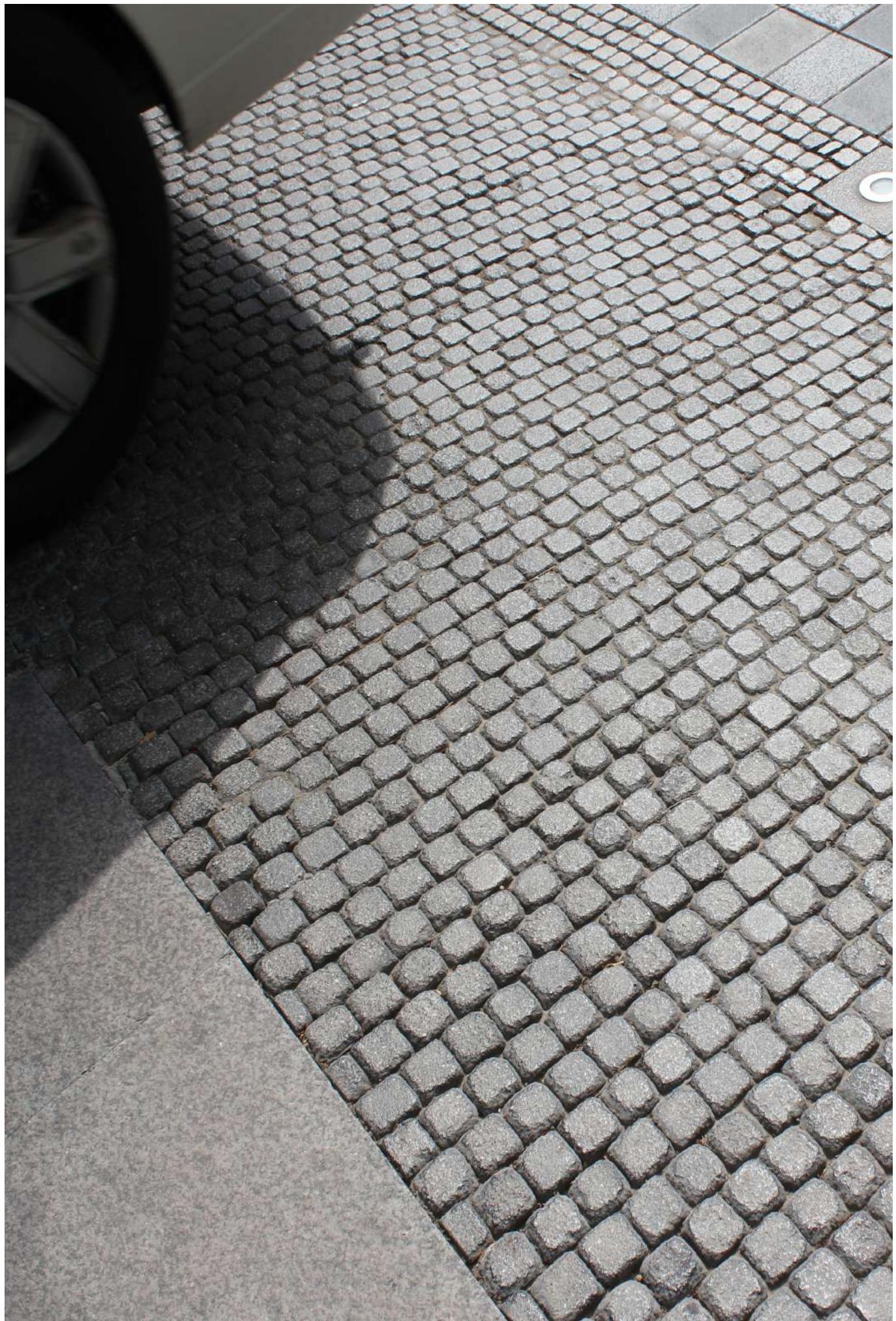
# SQUARE

One uniform solution

**Square** pavers are quite efficient at changing the look and feel of a space. The smallest sized set in an antique finish gives a lovely, textured look while the largest set in a flamed finish exudes simple elegance. For a cobblestone effect, please contact us to see which sizes can be tumbled.



Shape	Length (mm)	Width (mm)	Thickness (mm)
	80	80	60
	100	100	60/80/100/120
	150	150	60/80
	200	200	60/80
	250	250	60/80
	300	300	60/80
	400	400	40/60/80



# MILANO

For tight spaces

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Whether used as a decorative border around other pavers or on its own as a winding pathway, **Milano** pavers are flexible enough to be squeezed into even the smallest of garden spaces for an extra flair.

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Shape	Length (mm)	Width (mm)	Thickness (mm)
-------	-------------	------------	----------------



# STRADA

The modern cobblestone

A modern take on traditional cobblestone is **Strada**. The organic, random shapes of **Strada** pavers resembles those of cobblestone paths but with the added benefit of being flat and easy to walk on. Another distinctive feature of **Strada** are the large gaps created between the pavers due to its irregular shape. This allows water to drain quickly from the surface while still keeping a stylish look.



Shape

Length (mm)

Width (mm)

Thickness (mm)



*Strada has a range of 7 shapes with slight variations in sizes. The average approximate dimensions range from around 128 mm x 107 mm to 173 mm x 94 mm.*

80

# FAVO

The honeycomb effect

An iconic shape that is inspired by nature, **Favo** pavers create an unforgettable first impression. The hexagonal shapes can be individually customised for a truly unique and eye-catching design.



Shape

Length (mm)

Width (mm)

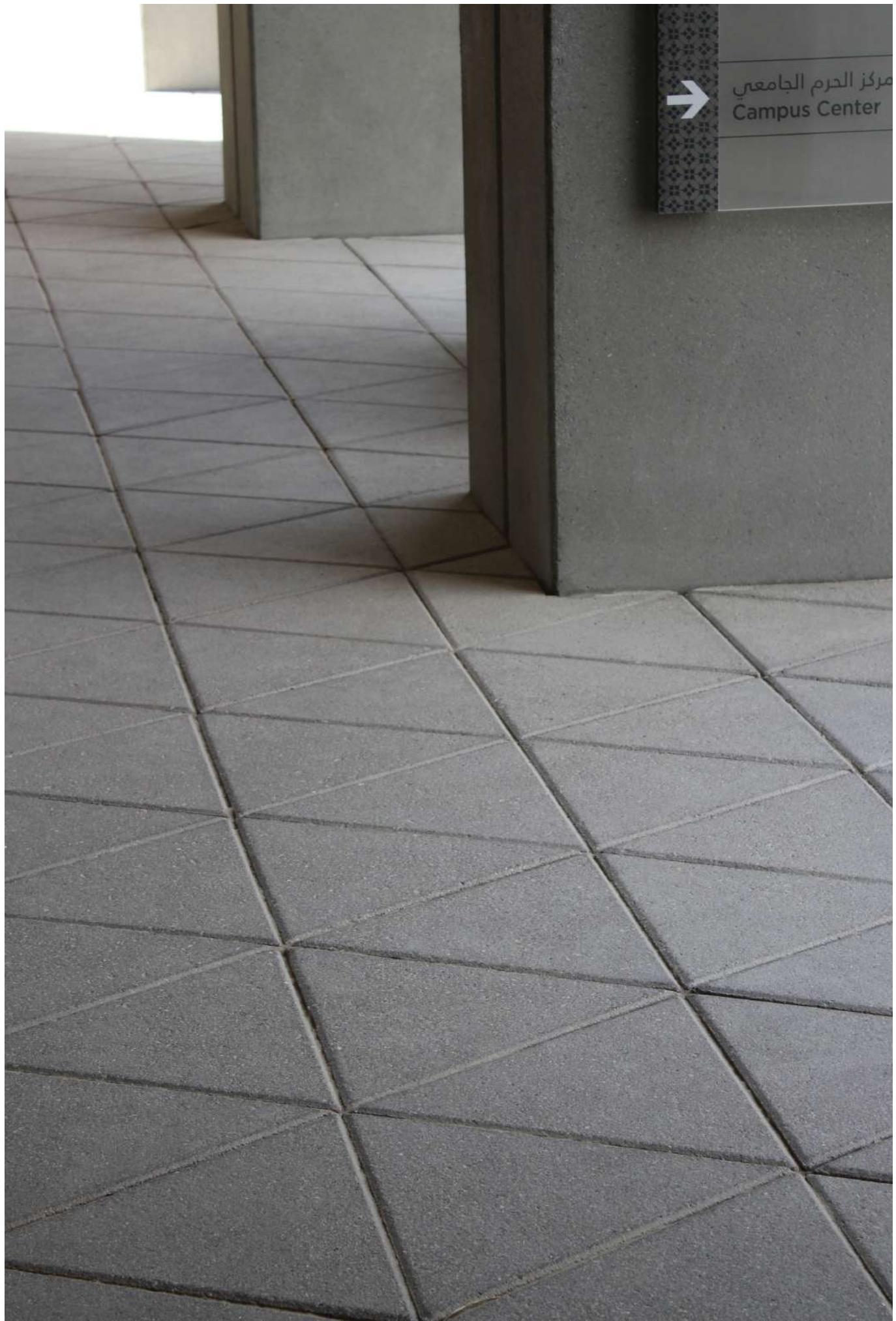
Thickness (mm)



150

150

80



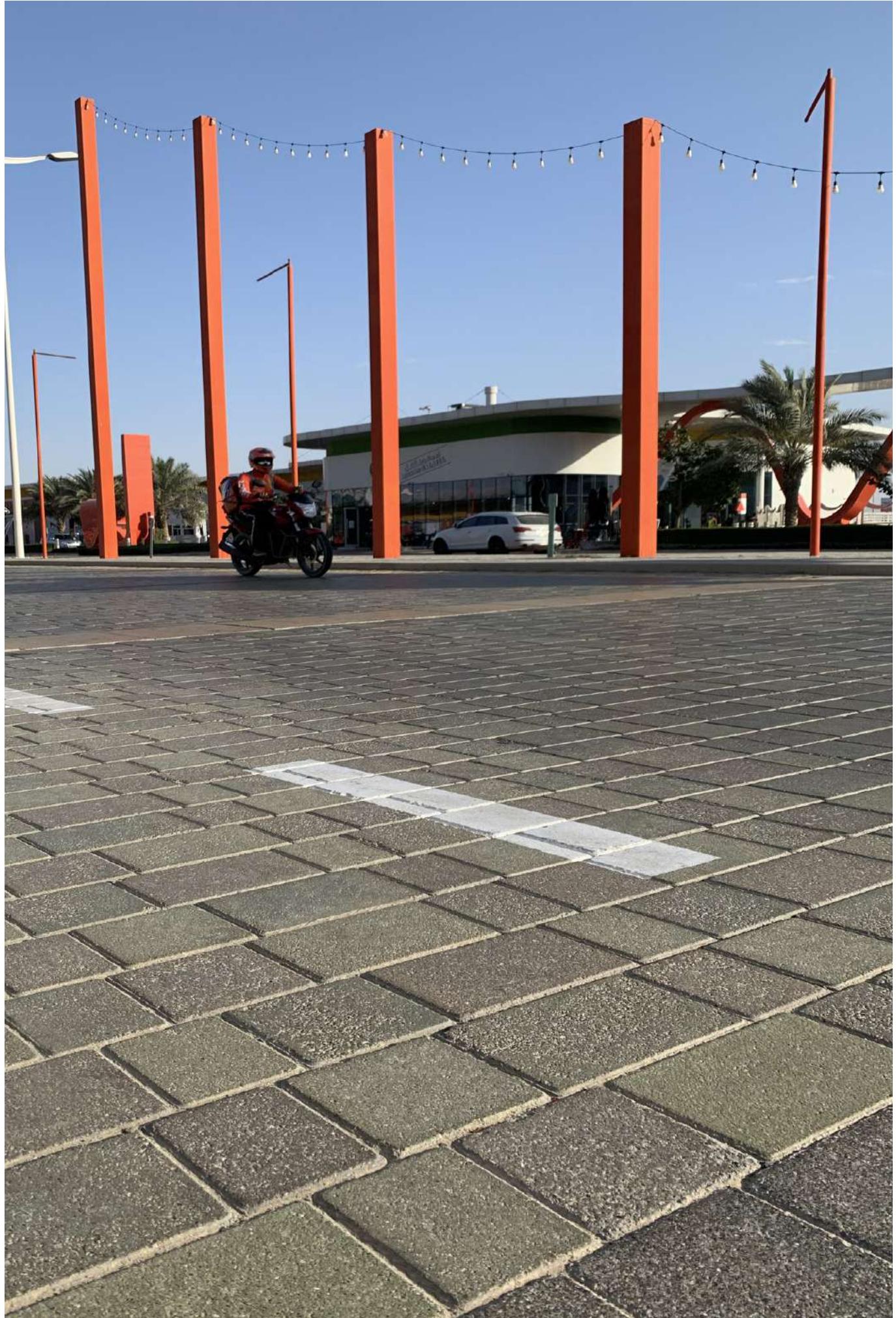
# TRIMA

For modern geometry

A classic shape, the **Trima** paver adds a bold, graphic quality to a space. Available in a variety of colours, surface textures and laying patterns, **Trima** pavers may be customised upon request to suit the location.



Shape	Length (mm)	Width (mm)	Thickness (mm)
	500	500	60



# TEGULA

For visual variety

Comprised of 3 different sizes per set, **Tegula** allows for the ultimate customisation in terms of colour patterns. Durable and flexible, **Tegula** offers endless appealing ideas for both commercial and residential applications. All **Tegula** sizes can be tumbled for an old-world, cobblestone appearance.



Shape	* Single sizes available upon request	Length (mm)	Width (mm)	Thickness (mm)
		120/160/240	120	60/80
		120/160/240	160	60/80/100
		120/160/240	240	80

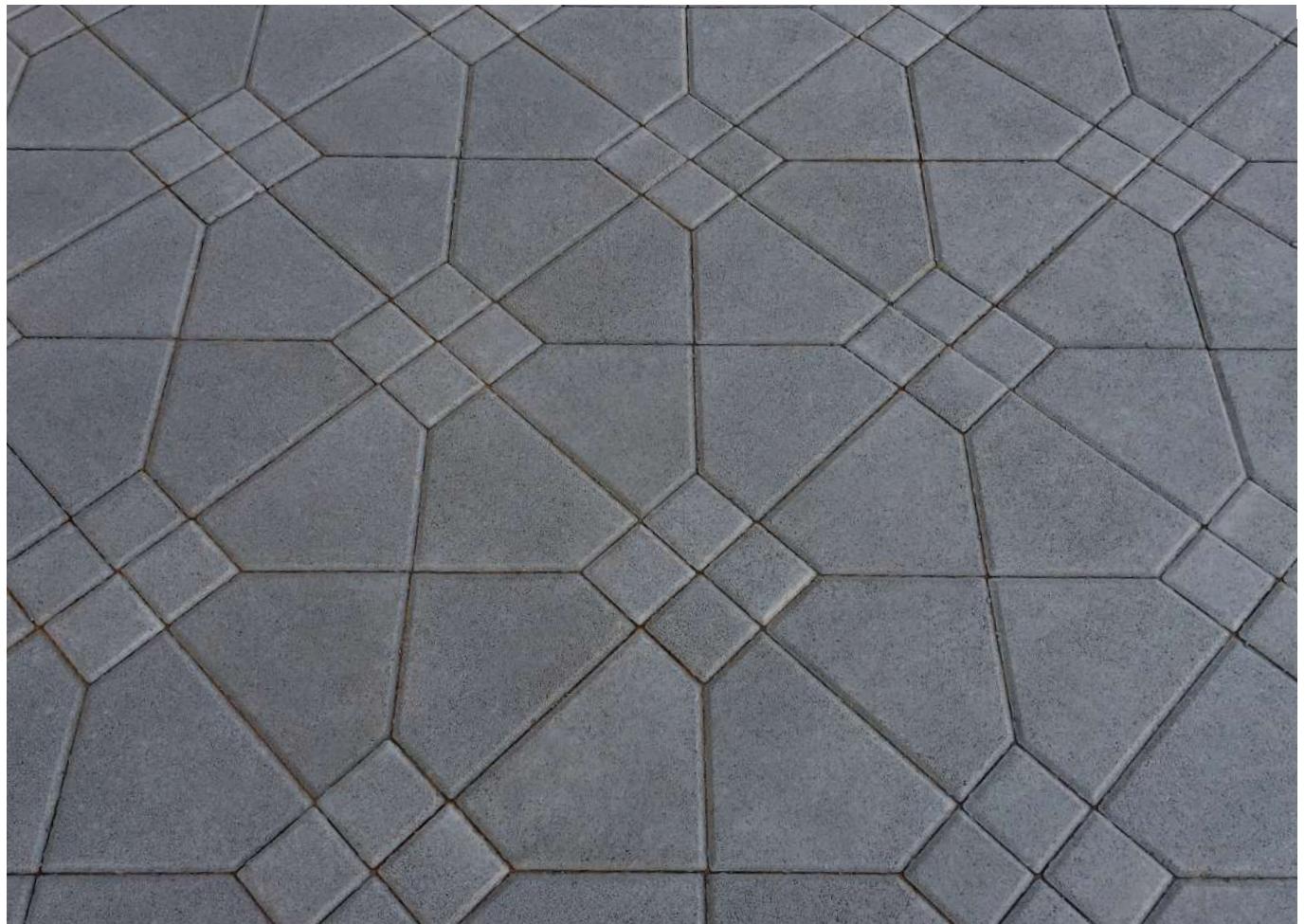
# LA PLAZA

For corners and more

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A fusion of a triangle and a square, **La Plaza** pavers are fantastic as a substitute for square pavers when you want your design to be a little bit more unique.

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Shape

Base to tip (mm)

Width (mm)

Thickness (mm)



242

282

60

# OMNIYA

An Arabian touch

Evoke the spirit of ancient Arabia with **Omniya** pavers. Providing visual interest and textural elegance, let **Omniya** inspire your imagination and transport you back to times of ancient Moroccan tiles and traditional markets.



Shape	Length (mm)	Width (mm)	Thickness (mm)
 	Square	80	80
	Octagonal	200	200

# UNI

The universal interlock

*The efficient interlocking design of Uni makes it one of the strongest heavy-load bearing pavers in the market. Able to withstand extreme transverse and compression loads, Uni is suitable for use anywhere including airports, seaports and truck parking lots.*



Shape

Length (mm)

Width (mm)

Thickness (mm)



225

112.5

60/80/100

# BEHATON

For integral strength

The iconic H-shape of **Behaton** allows for the pavers to interlock with each other for added strength and unity. A great option for public parking lots and private driveways.

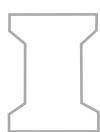


Shape

Length (mm)

Width (mm)

Thickness (mm)



200

165

60/80



# DECOR

Decorate your space

The trapezoidal shape of **Decor** pavers creates an opportunity for diversity. Whether laid side by side or mirroring each other, the effect once laid gives a charming appearance to any setting.



Shape	Top Length (mm)	Bottom Length (mm)	Width (mm)	Thickness (mm)
-------	-----------------	--------------------	------------	----------------

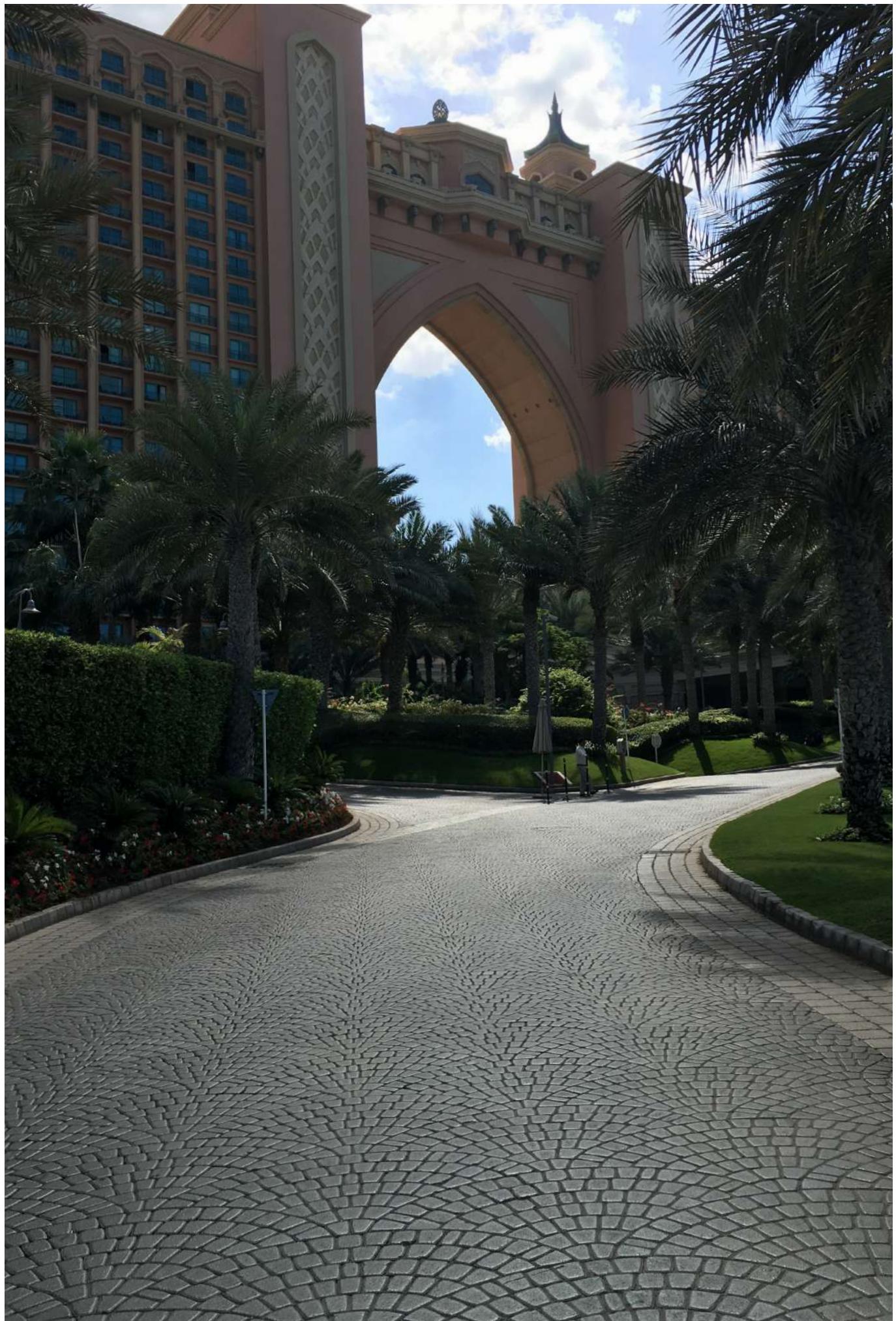


250

500

215

80



# AVENUE

For extra character

*Avenue pavers are perfect for adding a subtle flair to any outdoor design. Be it driveways, garden paths or promenades, the Avenue paver's durability and simple elegance will outperform your expectations.*

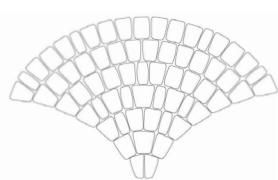


Shape \* One fan equals 0.65 sqm

Length (mm)

Width (mm)

Thickness (mm)



812

1480

80



# CONRAD

A bold choice

Bring the strong landscapes of the African savannah to your home with our **Conrad** pavers. A great option for designs that require a bit of character, these pavers come in several alternate sizes and patterns for a truly unique look.



Shape

Length (mm)

Width (mm)

Thickness (mm)



350

250

80





product  
design  
award

2013

# ARTESO®

Where art meets concrete



Winner of the iF Product Design Award in 2013 and nominated for the German Design Award 2014, Arteso provides delicate accents to hardscape designs. Made with special aggregate and available in a variety of surface finishes, Arteso's 5 sided shape can also be laid in a subtle flower pattern.



Shape

Longer sides (mm)

Shorter sides (mm)

Thickness (mm)



280

162

80



# TERRACRETE

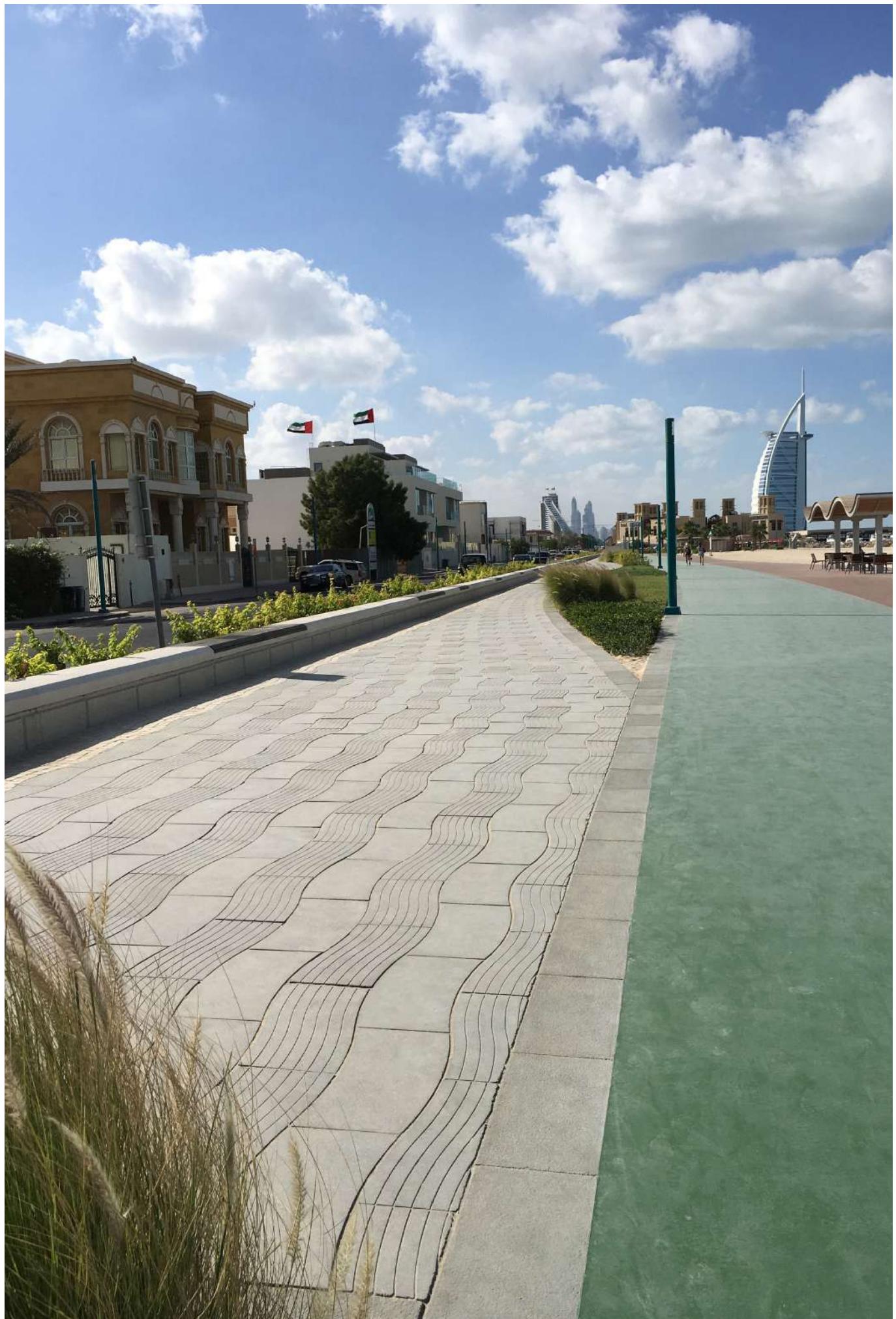
Eco-friendly paving

**Terracrete** is a versatile eco-surface hard lawn paving block that allows plants to grow within its design. This creates great opportunity for areas that require the durability of concrete but lack the space to also accommodate greenery. The units can be laid in several different patterns and can be used in a variety of schemes including stabilizing steep embankments with bridge abutments.



Shape	Length (mm)	Width (mm)	Thickness (mm)
	333	333	100





# THE WAVE

An illusion paver

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A successful project design request, **The Wave** tricks your eyes and mind into believing that these pavers are 3D. Resembling the waves of the sea, these tiles lie perfectly flat and are installed in exactly the same way as regular concrete pavers.

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Shape	Length (mm)	Width (mm)	Thickness (mm)
	598	298	60





2011



# UMBRIANO®

The concrete replacement for natural stone

Brought to you through our partnership with innovative German company, METTEN, the Umbriano® concrete paving system offers you a new and unique way of designing urban places and home spaces. As an engineered concrete paver designed to resemble sawn granite, Umbriano® replicates the characteristic textures found in natural stone, giving you an unmistakably unique concrete paver with varying surface textures and unchamfered edges.

Available in 8 complementing colours, it also comes infused with CleanTop®, an integrated system that protects the paver from stains and weathering. As a testament to its value, Umbriano® has won the “iF Product Design Award” in 2011 and has also been nominated for the 2012 German Design Award.



## CLEANTOP®

The reduced care requirements of CleanTop® significantly lower maintenance costs for surfaces in busy public spaces. The CleanTop® system has proven itself, delivering excellent results, not only in Germany and other European countries but also in the USA, Canada and the Middle East. This technology was developed more than 15 years ago in order to protect the surfaces of concrete blocks. While conventional post-production processes merely seal the material, the CleanTop® system forms part of the actual manufacturing process and is therefore integrated directly into the blocks themselves. CleanTop® enhances and protects colours and surfaces while counteracting deterioration due to weathering as well as increases the resistance of the concrete surfaces from ageing. Unlike other conventional sealants, no periodic re-treatment is required—CleanTop® provides durable protection over the long term.

### THE TEST

In order to visibly demonstrate the low maintenance requirements of a CleanTop® surface, oil, coffee, ketchup and mustard were spread on a CleanTop® protected paving

stone and on an unprotected paving stone and left for several hours. Afterwards, the stains were cleaned with soapy water and a brush. Result: slight residue of used

oil and easier removal of all other stains from the CleanTop® protected surface. In comparison, most of the stains have remained on the paver with an unprotected surface.



Surface pasted with several stain types



Surface **with** CleanTop® after cleaning



Surface **without** CleanTop® after cleaning

## PROPERTIES

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- Surface with the appearance of sawn natural stone
- CleanTop® surface
- Dirt repellent
- Natural appearance in combination with surface protection
- Easy to clean compared to paving systems without CleanTop®
- Algae and moss inhibiting
- Non slip
- Finishing with or without chamfer
- Variety of sizes available

### PERFORMANCE

Pedestrians  
Bicycles  
Cars

### APPLICATION

Gardens  
Sidewalks  
Parking lots  
Driveways  
Roads  
Urban designs

## COLOUR OPTIONS

---



Grey - Anthracite



Anthracite - White



Grey - White



Grey - Red



Rubiginous Brown



Beige - Brown



Granite Beige



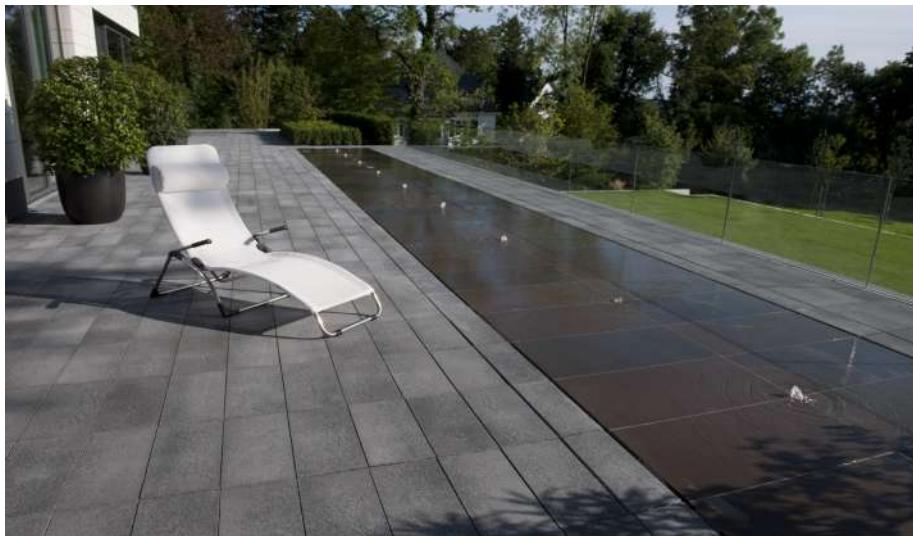
Jura Yellow

## DIMENSIONS

\* Other sizes and thicknesses available upon request

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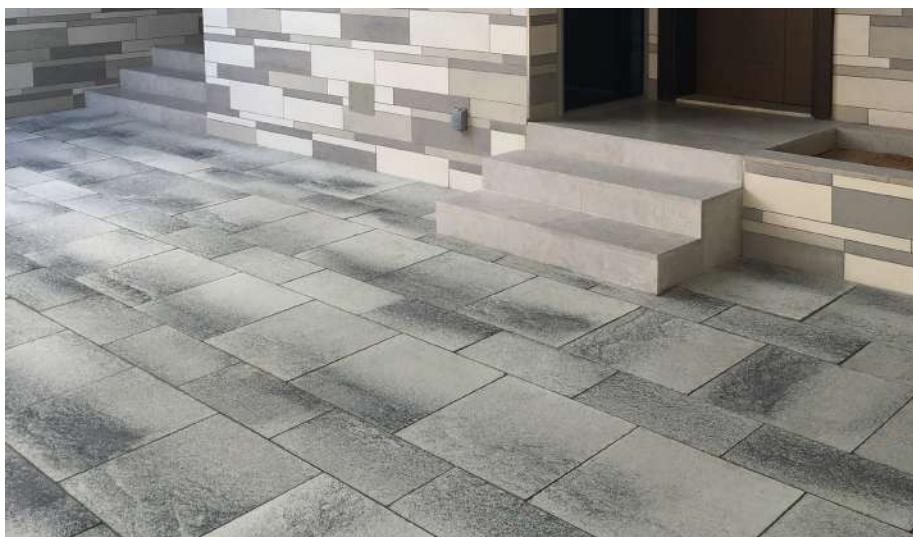
Shape	Length (mm)	Width (mm)	Thickness (mm)
	250	250	80
	400	100	80
	500	250	80
	500	500	80
	750	500	80
	1000	500	80
	1000	1000	80



*Grey Anthracite*



*Anthracite White*



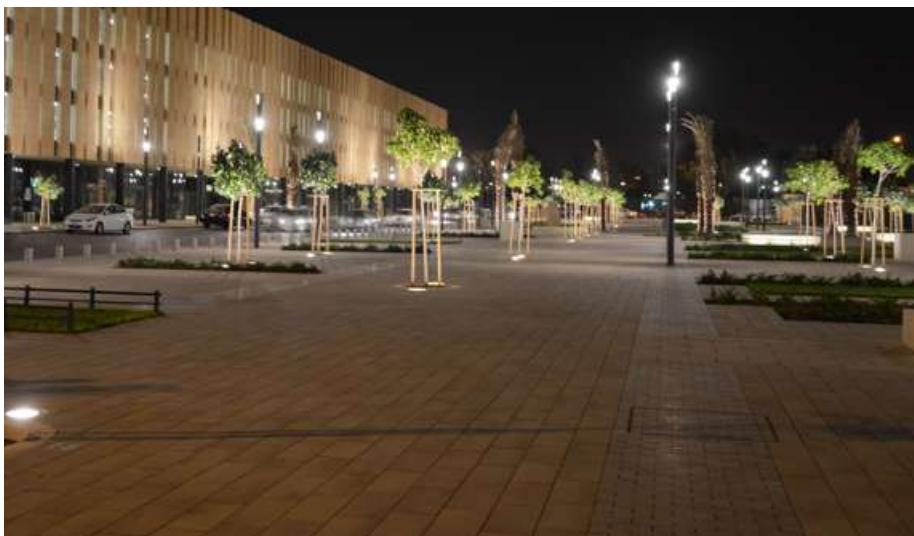
*Grey White*



*Beige Brown*



*Granite Beige*



*Jura Yellow*

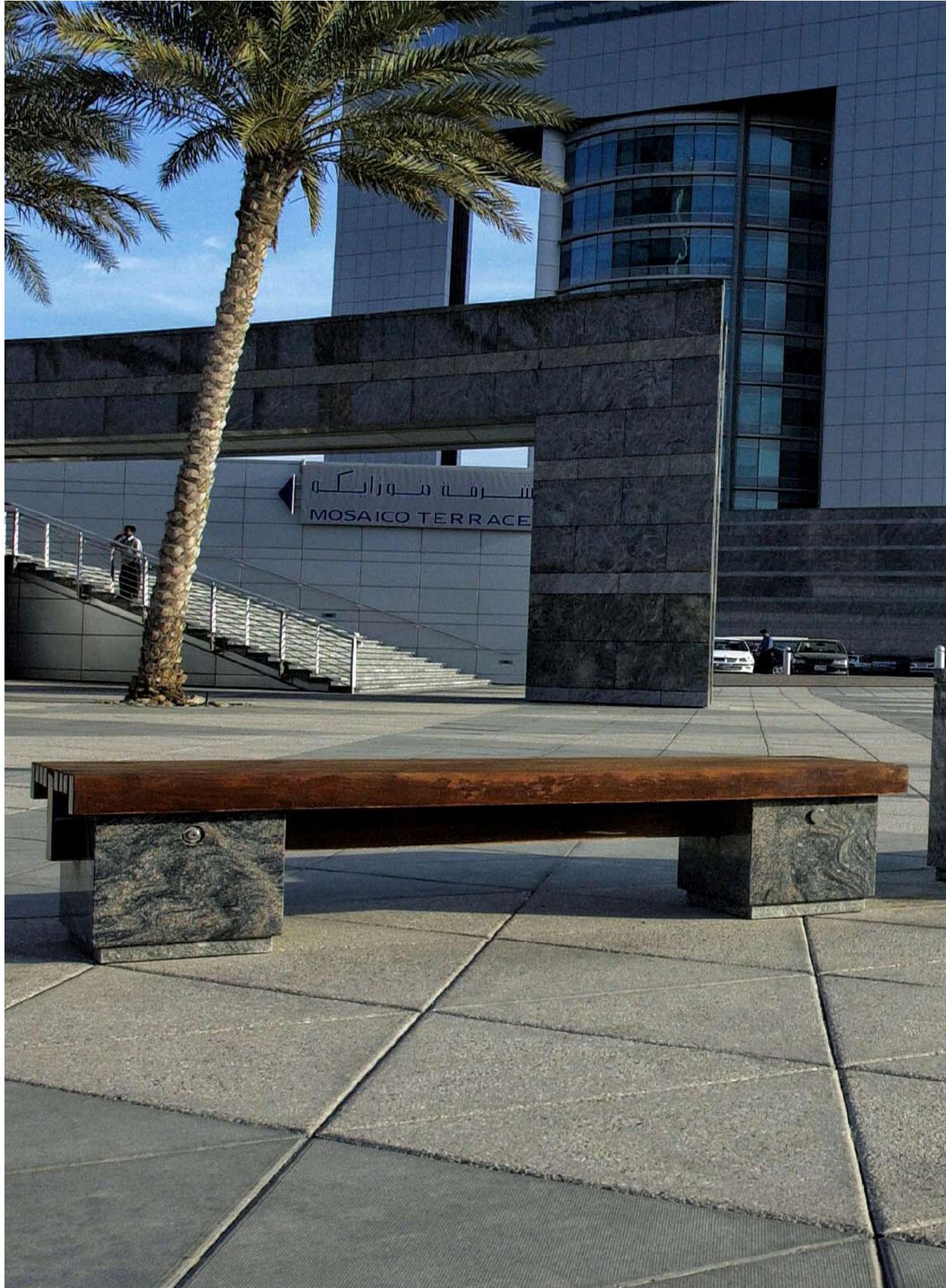


# **GRANIX™**

The concrete alternative to granite

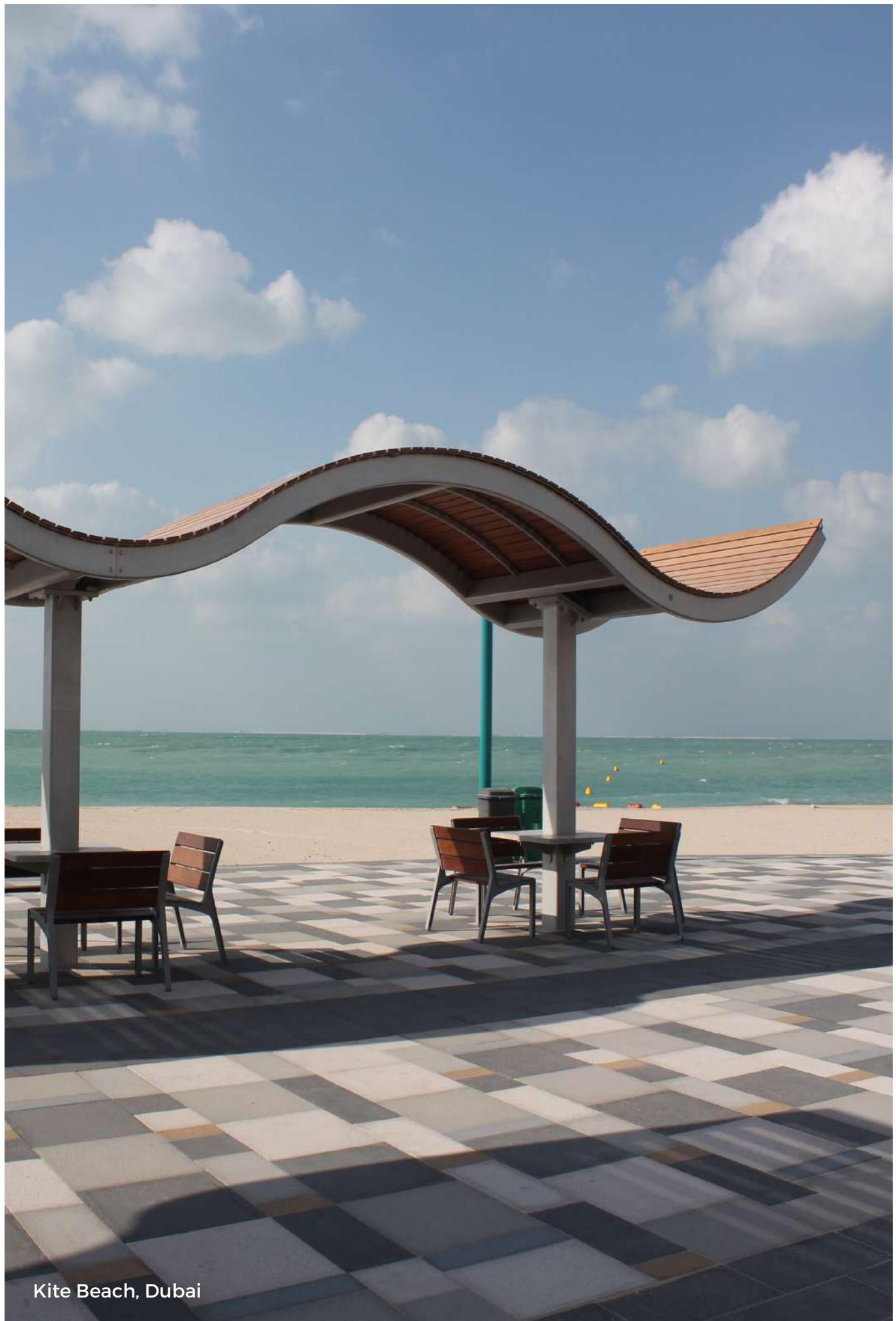
Pioneered by Consent, this patented product has been used in numerous prestigious projects, both locally and internationally. Appreciated for its exposed aggregate look which gradually ages to a natural stone appearance, this feature is what sets Granix™ tiles apart from other concrete pavers and its affordability gives it an edge over natural stone.

Granix™ tiles are concrete paving flags that are produced in a Hydraulic Press, a process whereby the excess water is squeezed out of the wet concrete by high pressure and vacuum, resulting in high-quality products. This technique guarantees even pigmentation distribution throughout each block from top to bottom for maximum strength and product life. Blending the lines between concrete and natural granite, Granix™ tiles are inspired by the best of both worlds. Available in a variety of finishes and in any colour, the flexibility of Granix™ allows it to perfectly match your design requirements.





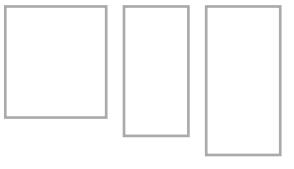
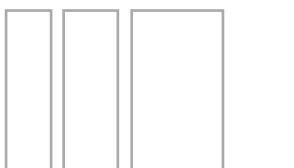
The Emirates Towers, Dubai



Kite Beach, Dubai

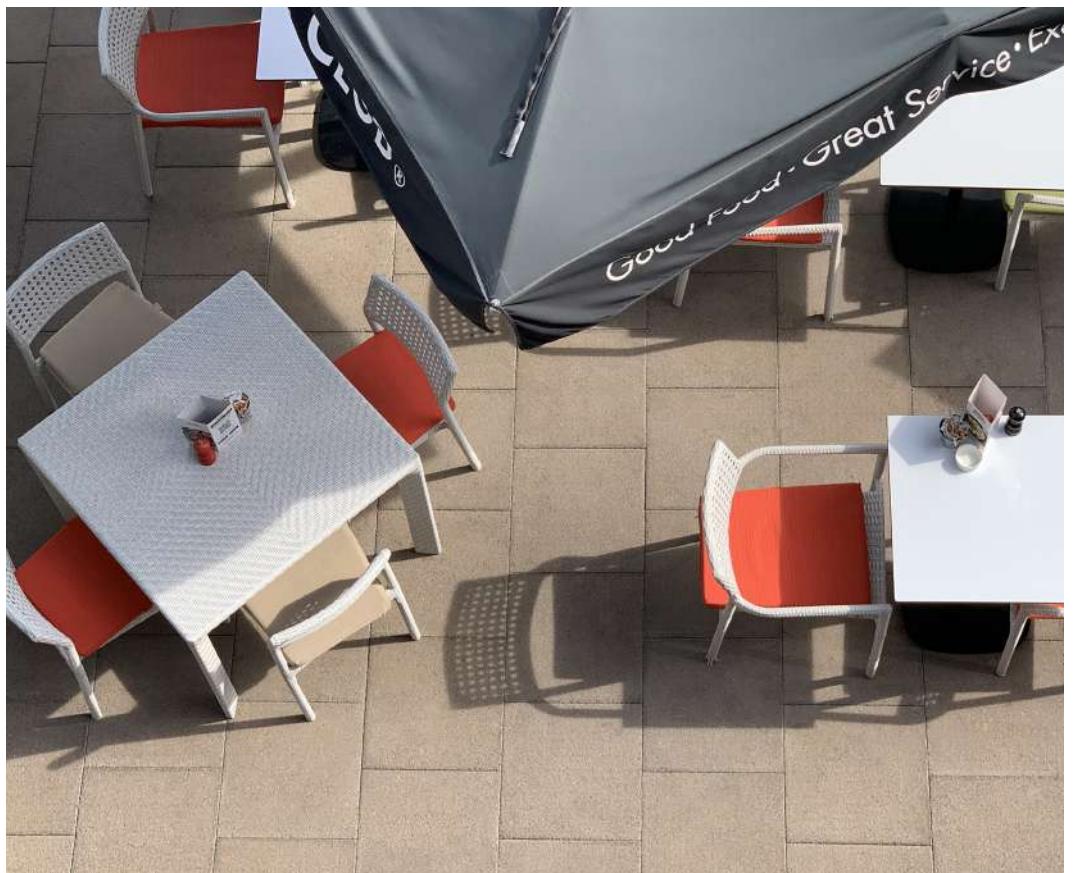
## DIMENSIONS

\* Other sizes and thicknesses available upon request

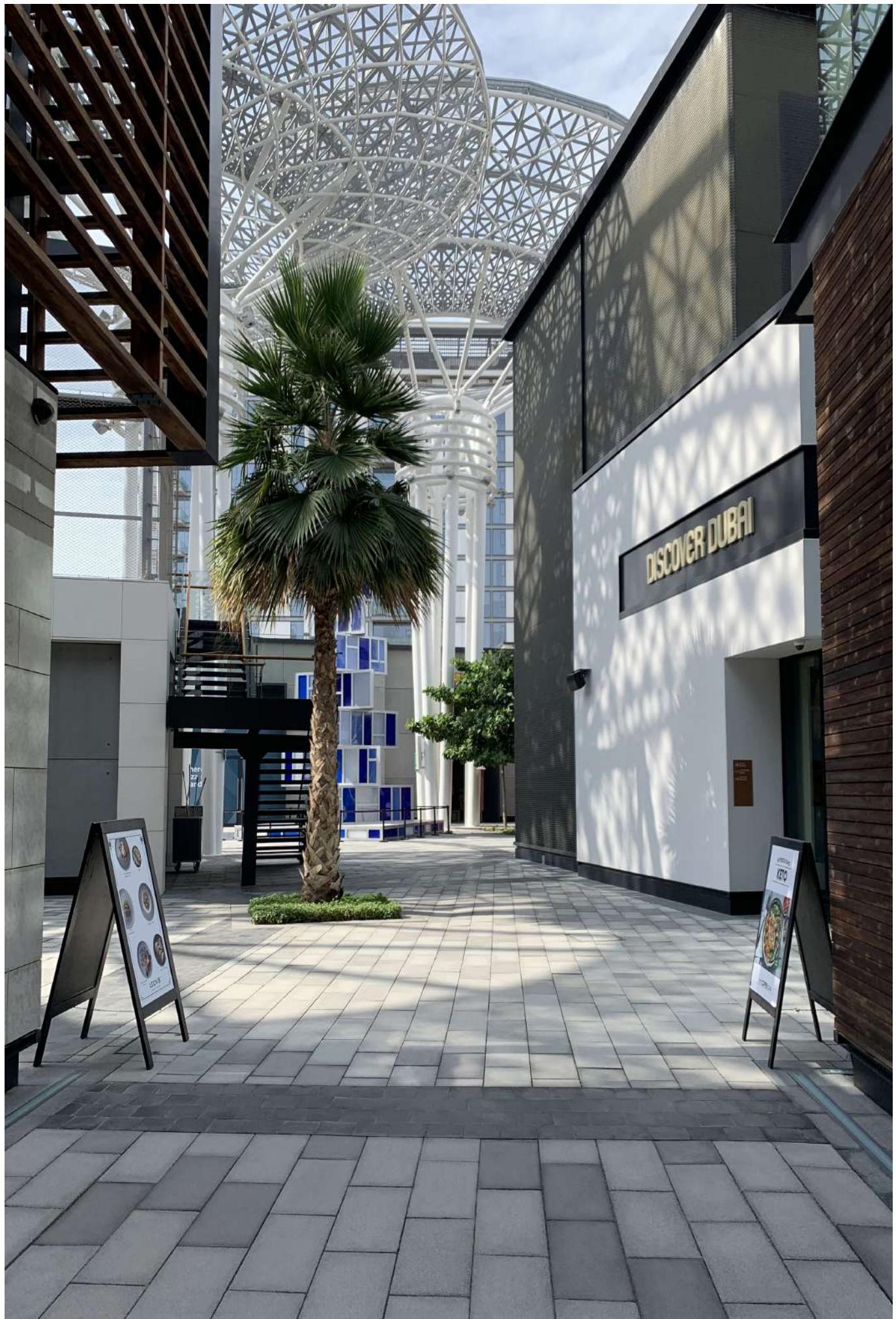
Rectangle	Length (mm)	Width (mm)	Thickness (mm)
	400	200	40 - 100
	450	200	60 - 100
	600	200	60 - 100
	600	300	50 - 100
	600	350	50 - 100
	600	400	50 - 100
	600	420	50 - 100
	600	450	50 - 100
	600	540	50 - 100
	700	350	50 - 100
	800	400	50 - 100
	900	150	60 - 100
	900	250	60 - 100
	900	300	60 - 100
	900	450	60 - 100
	1000	250	60 - 100
	1000	300	60 - 100
	1000	500	80 - 100

Square	Length (mm)	Width (mm)	Thickness (mm)
	300	300	40 - 100
	350	350	40 - 100
	400	400	40 - 100
	450	450	40 - 100
	500	500	40 - 100
	600	600	50 - 100

Triangle	Length (mm)	Width (mm)	Thickness (mm)
	833	833	60 - 80



*Bluewaters Island, Dubai*





*W Hotel, The Palm Jumeirah*



*Kite Beach, Dubai*



*Consent display garden*



## GRANIX™ PAVESPACER

The perfect complement to Granix™ paving tiles, Granix™ PaveSpacers are the tool you don't see but solves the technical aspect of open tile gaps. Made from durable and recyclable PE plastics, they protect against edge damage by preventing direct surface contact between tiles, provide surface water drainage and also helps create straight and even lines during the installation process. Available in 7 different shapes and varying heights, these spacers are flexible enough to suit almost any design requirement.



## GRANIX™ PAVEPADS

Great for raising tiles off the ground to your required height, Granix™ PavePads help to create insulation from the heat as well as allow for easy future maintenance access for any services hidden under. Also made from high density Polyethylene, they can handle temperatures ranging from -50°C to 100°C and direct weight placement of up to 1.2 tons. PavePads can be placed on existing surfaces, as supporting ramps, under stairs and are the best paving supports for terraces, balconies and roof tops.



## EZY POLYMERIC SAND

Tired of needing to refill jointing sand due to wind and rain erosion? Need to clean the pavement but afraid the jointing sand will be washed away? Want a product that is easy to brush off the surface and does not haze? Looking for a long lasting solution to prevent weed growth? Then look no further than Consent EZY polymeric sand, your EZY and non hazy solution. Our polymeric sand fills the joints easily and can be swept off the face of the paver effortlessly without hazing. Upon activation using water, the cement free formula creates a durable and flexible joint in 24 hours. Once activated and cured, EZY polymeric sand is strong enough to withstand the surface being cleaned by a high pressure water jet. Available in 3 colours, EZY polymeric sand can suit a variety of paving colour schemes.

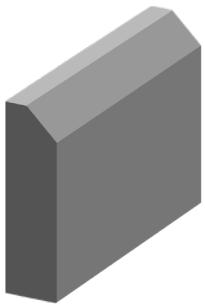




# KERBING YOUR DESIGN

Kerbstones are the essential framework for all paving designs. Characterised by high flexural and compressive strength, low water absorption, high resistance to salt, dimensional accuracy as well as being available in superior surface finishes, our kerbstones are built to last. With a wide range of sizes available, you are sure to find what you need.

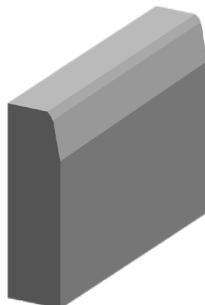
For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



## FULL BATTER

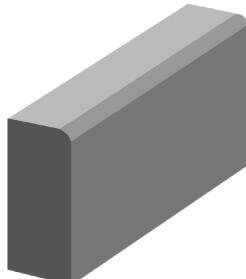
\*Riven finish only

Length (mm)	Width (mm)	Height (mm)	Slope length (mm)
915	150	150	75
915*	150	305	25



## HALF BATTER

Length (mm)	Width (mm)	Height (mm)	Slope length (mm)
600	100 - 200	300	100
600	100 - 200	300	150
600	100 - 200	350	105
600	100 - 200	400	150
600	100 - 200	400	200
600	100 - 200	450	100
600	100 - 200	450	200
915	100 - 150	150	100
915	100 - 150	175	100
915	100 - 150	185	100
915	100 - 150	200	100
915	100 - 150	255	105
915	100 - 150	305	105

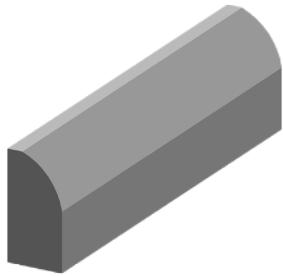


## BULL NOSE

\*Two sided bullnose

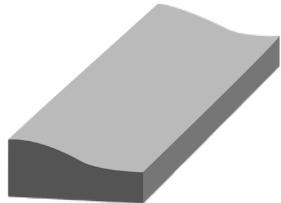
Length (mm)	Width (mm)	Height (mm)	Bull nose radius (mm)
540	100 - 150	300	19
540	100 - 150	600	19
600	100 - 200	300	19
600	100 - 200	350	19
600	100 - 200	400	19
600	100 - 200	450	19
915	100 - 150	150	19
915	100 - 150	200	19
915	100 - 150	255	19
915	100 - 150	305	19
600*	400	200	22

## **ROUNDED**



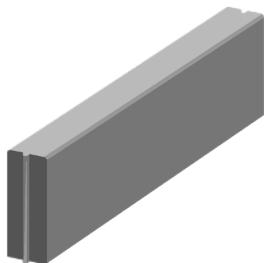
Length (mm)	Width (mm)	Height (mm)	Arc radius (mm)
915	255	150	150

## **ROLLOVER**



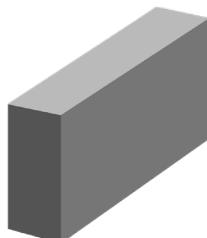
Length (mm)	Width (mm)	H1 (mm)	H2 (mm)	Curve radius (mm)
600	420	100	200	400

## **HEEL KERB**



Length (mm)	Width (mm)	Height (mm)
600	75	150
800	100	200

## **FLUSH**



Length (mm)	Width (mm)	Height (mm)
600	100 - 200	300
600	100 - 200	350
600	100 - 200	400
600	100 - 200	450
600	100 - 200	540
915	100 - 150	150
915	100 - 150	175
915	100 - 150	185
915	100 - 150	200
915	100 - 150	255
915	100 - 150	305





# RETAINING WALLS

When reshaping or reclaiming the landscape, modular concrete retaining walls have become a popular choice due to its strength, durability and ease of installation.

At Consent, we offer a variety of segmental retaining wall systems that can be used to hold back soil, sand or water. Engineered and tested by professionals abroad, these award-winning systems are now produced under license in the U.A.E. exclusively by us.

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For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



# THE LIVING RETAINING WALL SYSTEM

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The Terraforce® retaining wall system is brought to you through our partnership with South African based company, Terraforce®. The unique blocks were pioneered in 1984 and represent one of the most efficient segmental retaining wall systems.

**T**he Terraforce® retaining block system combines more advantages than any of the other block systems available in the market. Relatively lightweight for transport, interlocks horizontally, is reversible to display a smooth round-face or a split straight-face, has a closed vertical surface structure for proper compaction of backfill and prevention of backfill erosion, the wall angle can vary to suit site conditions and it can be filled with soil, gravel or concrete as designed by the engineer. The unique hollow-core design means that they require less concrete to do the job when compared to solid block systems and allows water to drain back into the ground. The blocks are also plantable, and if irrigation and maintenance are set up properly, a Terraforce® wall can be completely covered in vegetation.

## Properties

---

- Easy to handle and transport
- Reversible for different finishes
- Design flexibility: corners, curves and steps
- Heavy duty erosion and sediment control
- Storm water control and shoreline protection
- Land reclamation & terracing to create extra space
- Domestic & commercial retaining/landscaping
- Noise barrier capabilities
- Over 48 colours to choose from
- Does not require mortar

## Dimensions

---

Length: 300 mm  
Depth: 260 mm  
Height: 200 mm



## Applications

---

Roadside retaining  
Earth embankments  
River embankments  
Sea shore protection  
Cut slopes  
Steep channels  
Reinforced terraces  
Garden design



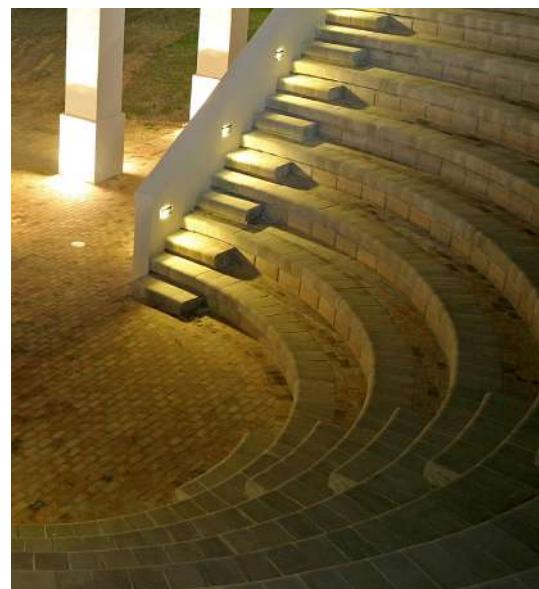
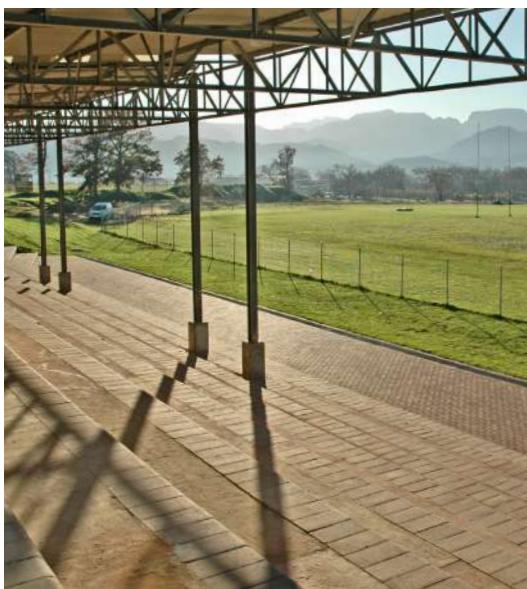
*Split-face finish*



*Retaining wall with  
pedestrian access*



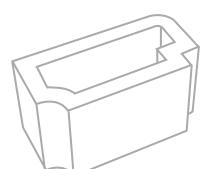
*Sea shore retaining walls  
for Palm Jumeirah*



## 4 x 4 MULTI STEP BLOCK

The perfect complement to Terraforce retaining walls, the Multi 4x4 Step block is a light, dry-stack concrete unit, generally used for constructing low terrace walls, stairs and seating arrangements. Aimed at providing efficient and economical steps in conjunction with the original retaining blocks of similar design, they have become very popular not only for stairway access, but also to provide comfortable, practical stair and seating arrangements at leisure amenities and school sports facilities.

The 4x4 Multi Step block has a unique design that allows you to simply stack up the units without mortar since the corner interlock gently handles convex and concave curves. The wall angle can vary from vertical to shallow slopes, and steps can be created by turning the block on its side. It can also be rotated for four different elevation choices, and the design allows you to make plants part of your wall.



### Dimensions

Length: 400 mm  
Depth: 200 mm  
Height: 200 mm

### Applications

Stairways  
Outdoor seating  
Low earth retaining  
Garden design



# THE TRUSTED PIN SYSTEM

---

The Keystone Compac® retaining wall system is brought to you through our partnership with U.S.A. based company, Keystone®. Since 1986, millions of square feet of Keystone® retaining walls have been successfully constructed, with some exceeding 15m in height\*.

\*With the combination of a Geogrid system.

**K**eystone compac® units are made of high-strength, low absorption concrete for long lasting structures.

Featuring an open core design and interconnected using the secure fiberglass pin connection system that is trusted by engineers and contractors around the world, the Keystone Compac® blocks have the stability of a large mass but are easier to handle, lighter to place and quicker to install than boulders, crib structures or thin-shelled panel structures. Due to the fiberglass pins, movement between blocks is restricted making alignment during installation easier and faster.

It is available in a split finish which provides a natural rock surface look to the wall.

## Properties

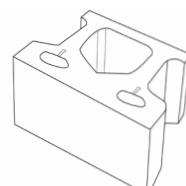
---

- Easy to handle and transport
- Heavy duty erosion and sediment control
- Storm water control and shoreline protection
- Land reclamation & terracing to create extra space
- Domestic & commercial retaining/landscaping
- Noise barrier capabilities
- Over 48 colours to choose from
- Does not require mortar
- Structural highway walls

## Dimensions

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Length: 457 mm  
Depth: 305 mm  
Height: 202 mm



## Applications

---

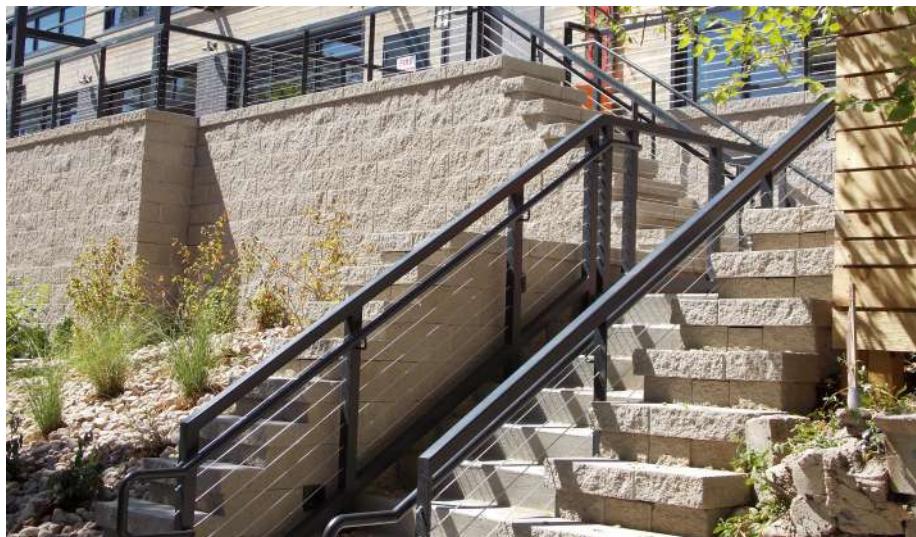
Roadside retaining  
Earth embankments  
River embankments  
Cut slopes  
Steep channels  
Reinforced terraces  
Garden design



*Soil retaining & terracing*



*Water retaining*



*Home elevation  
and terracing*



*Barrier wall*



PROJECT

Petoskey Waterfall, USA



# BLENDING CONCRETE WITH NATURE

Rosetta® is brought to you through our partnership with American company, Rosetta Hardscapes. With over six decades of experience in construction, Rosetta Hardscape products are enjoyed throughout the USA, Canada, Europe and now, as manufacturers of quality concrete products, Consent is proud to produce Rosetta® in the Middle East.

**A**s an innovative and unparalleled collection of rockscape products, Rosetta® provides structurally-sound, architectural walls with a unique stone texture appearance that will unlock the beauty of nature in your landscape applications.

As it is suited to desert, marine and wetland environments, Rosetta® can be used in a variety of applications such as naturalistic retaining walls, revetment walls, edge treatments along lagoons and canals, gravity walls up to 3m high (or taller walls using geogrid soil stabilization) as well as waterfall and other water features. Engineered to withstand time itself, this stone will inspire your vision of creating a natural haven for generations to enjoy. Make a timeless discovery, discover Rosetta®.

## Properties

- Beautiful weathered stone textures
- Fast installation
- Long term durability
- Engineered interlocking units
- Suitable for any application
- Multiple natural color blends
- Variety of sizes and thicknesses available

## Colours

Colours are made from non-fading oxides and can be customised to suit project requirements. Due to the custom colour blends, Rosetta products are unique in that the textures and colours are truly indistinguishable from natural stone.

## Applications

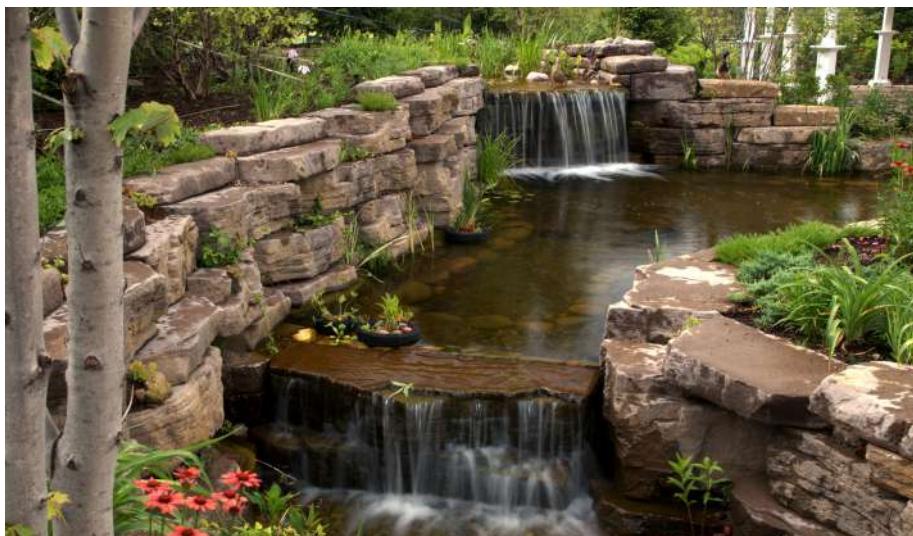
- Retaining wall
- Lagoons and canals
- Hotel pools and waterfalls
- Golf courses and garden decor



*Garden wall*



*Spa interior*



*River waterfall*



The installation process can't get any easier than Rosetta®. Due to the consistent dimensions and large interlocking systems, Rosetta® walls can be installed significantly faster than natural rock and can accommodate even the most challenging designs. For your convenience, we have a series of pre-drawn Rosetta® layout combinations available as inspiration. Rocks are supplied on stackable pallets for easy transport, a proprietary lifting hook is available to ensure safe and quick handling and only light lifting machinery is required for installation.

#### Dimensions

The Rosetta® wall collection features a unique variety of natural stone faces, ranging from approximately 60 cm to 180 cm wide and 15 cm to 60 cm tall in 15 cm increments.

#### Weight

The interlocking components of the Rosetta® system weigh an average of 100 kilos per square foot of face. This weight allows Rosetta® walls to achieve impressive heights without requiring reinforcement.

#### Steps

As an additional touch, the individual blocks of the Rosetta® retaining wall collection can be installed as steps to complement your Rosetta® wall design.





# THE ENVIRONMENTAL CHOICE

Enviro-Wall® is brought to you through our partnership with South African company Technicrete. Started in 1968, Technicrete occupies a unique and significant place in the precast concrete products market with manufacturing facilities in ten locations throughout South Africa and now, as manufacturers of quality concrete products, Consent is proud to produce Enviro-Wall® in the Middle East.

**T**he simplicity of the design enables blocks to be easily and rapidly laid to form an effective retaining wall system. Typical applications include earth embankments, bridge abutments, cut slopes, landscaping of cut and fill areas around buildings, protection of steep channels and river banks and culvert inlets and outlets. Enviro-Wall® also has the ability to reduce traffic noise when located adjacent to roadways.

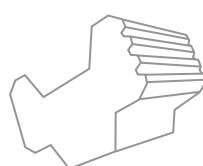
In addition to being reversible, the configuration of an Enviro-Wall® structure can be altered by opening or closing the spacing between the blocks. In the open arrangement, the cavities between the adjacent blocks can be filled with soil. Moisture in these spaces provide ideal conditions for rapid plant growth which results in a visually appealing and structurally stable retaining wall system.

## Properties

- Easy to handle and transport
- Reversible for different finishes
- Heavy duty erosion and sediment control
- Steep channels and shoreline protection
- Land reclamation & terracing to create extra space
- Domestic & commercial retaining/landscaping
- Noise barrier capabilities
- Over 48 colours to choose from
- Does not require mortar

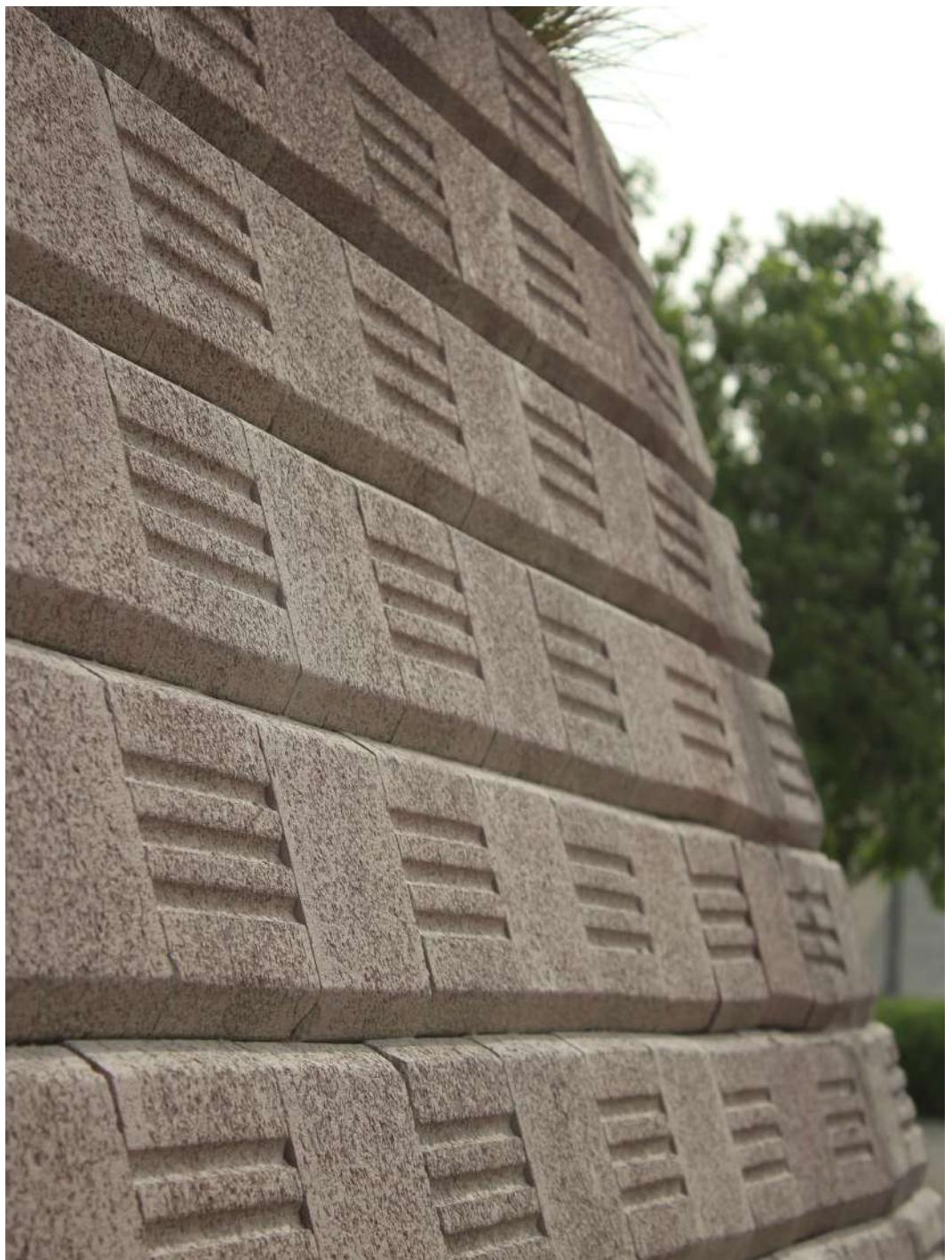
## Dimensions

Length: 240 mm  
Depth: 300 mm  
Height: 180 mm



## Applications

Roadside retaining  
Earth embankments  
River embankments  
Cut slopes  
Steep channels  
Garden design



*Retaining wall, no gaps*



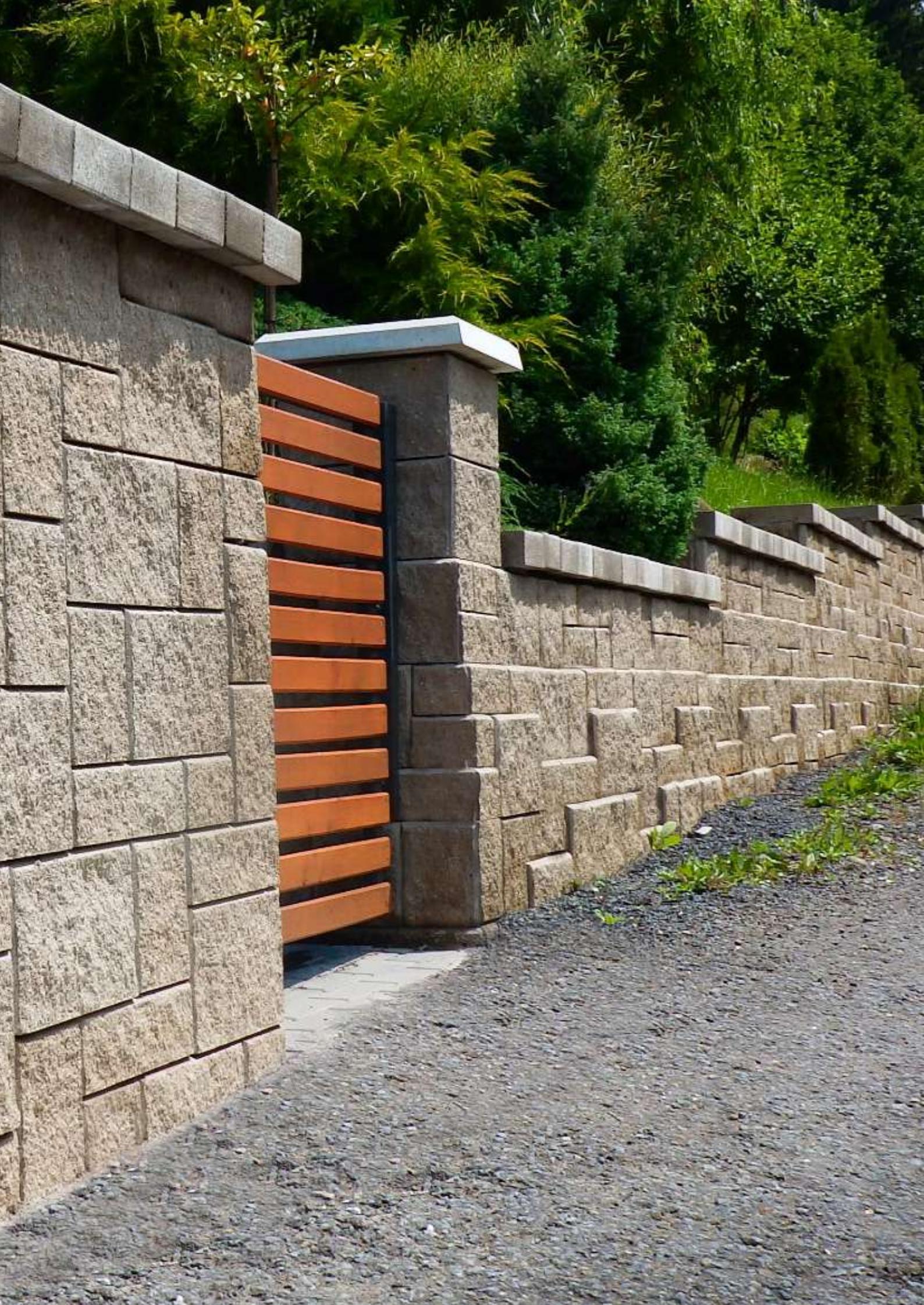
*Spaced apart to make pockets for planting*



*Double layer terracing,  
sloped wall*



*Close-up of blocks*



# THE BOUNDARY WALL SYSTEM

The Stavoblock retaining and partition wall system is brought to you through our partnership with Ing. Křivinka Zdeněk from the Czech Republic. The blocks were pioneered in 2011 and currently have the most potential for design variety compared to other blocks.

**T**raditionally, masonry blocks are used to create boundary walls. Requiring mortar between blocks, a layer of plaster and then paint on top, they have proven to be cumbersome and time consuming.

With Stavoblock, you can easily build a spectrum of walls ranging from retaining, partition to fencing while cutting the construction time in half. Stavoblocks are assembled without use of mortars or adhesives and are protected against sliding out of place by dovetail locks.

It is available in four sizes that you can mix and match, any texture required (ranging from split-finish to polished) as well as in any colour. This flexibility allows for endless design opportunities to ensure a unique look.

## Properties

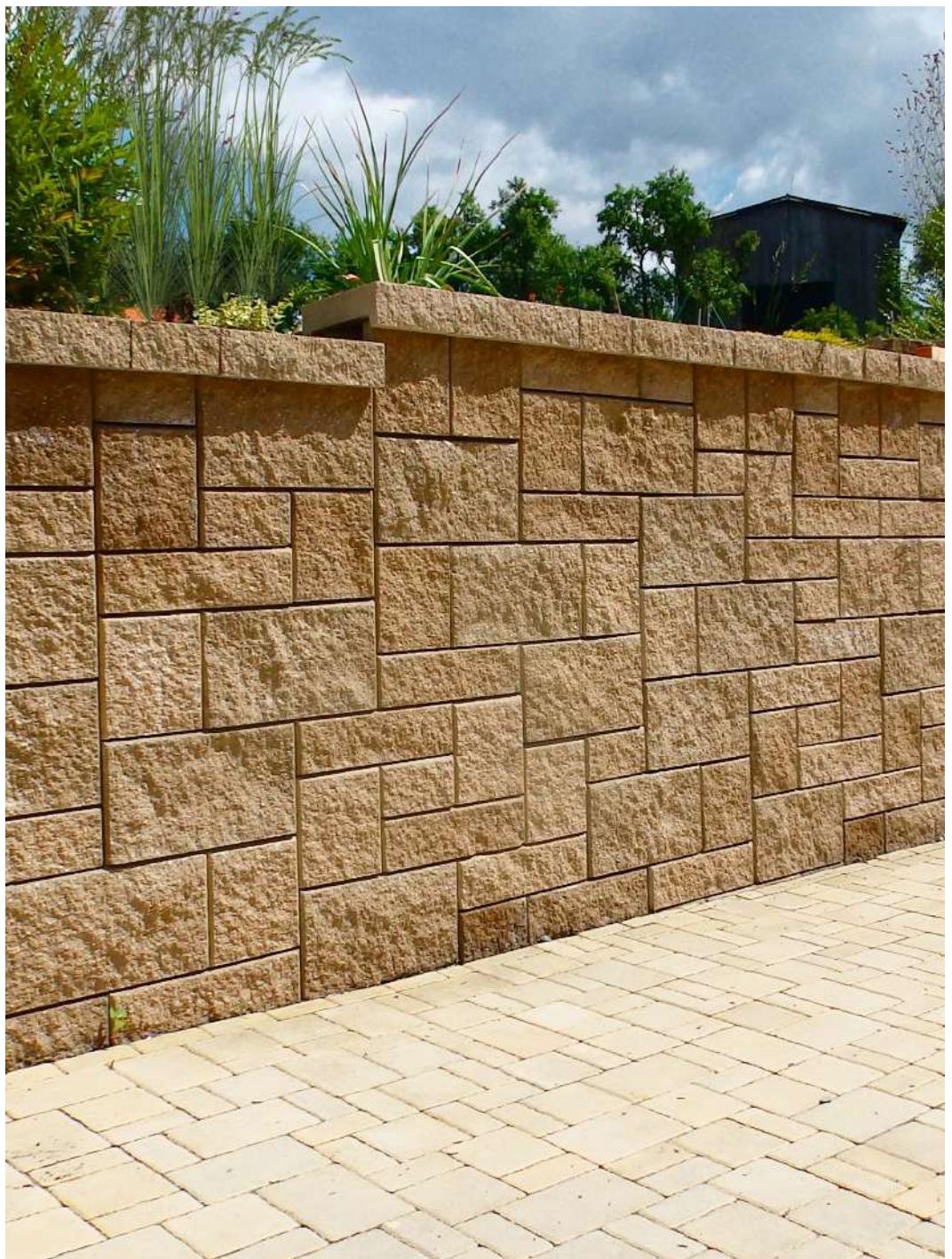
- Easy to handle and transport
- Heavy duty erosion and sediment control
- Land reclamation & terracing to create extra space
- Domestic & commercial retaining/landscaping
- Double sided and available in multiple sizes
- Around 7 different finishes possible
- Over 48 colours to choose from
- Does not require mortar

## Dimensions

- 200 x 100 x 100 mm
- 200 x 200 x 100 mm
- 400 x 100 x 100 mm
- 400 x 200 x 100 mm

## Applications

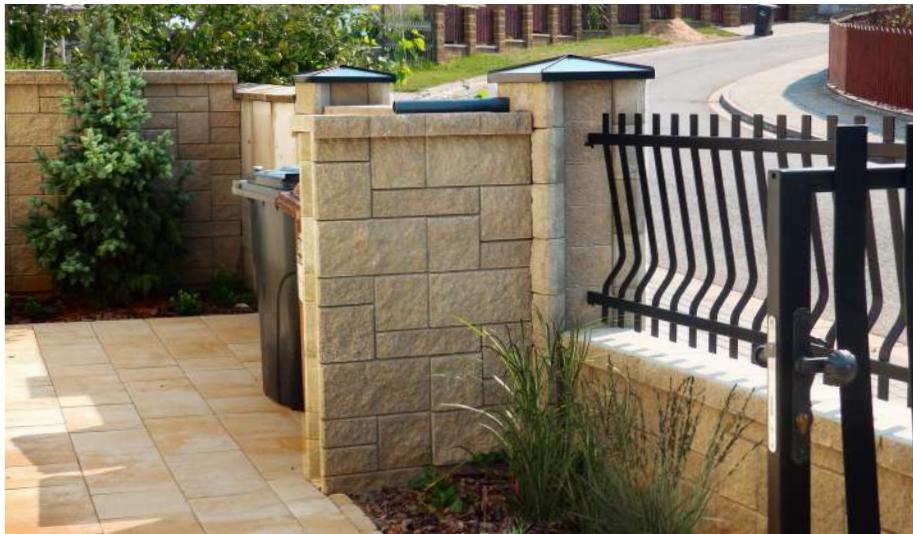
- Boundary walls
- Compound dividers
- Reinforced terraces
- Roadside retaining
- Garden design



*Medium height Stavoblock boundary wall*



*High boundary wall  
around villa*



*Low boundary wall with  
fence and gate*



*Stavoblocks used as a  
raised planter bed*



# THE SECURITY AND DEFENCE WALL SYSTEM

---

Established in 2015 in the UK by directors Gareth Neale and Steve Bambridge, KarabloK® is the only precast concrete barrier system in the world tested and certified for an impact load of 7.2t at 80km/h at a 90° impact angle.

**K**arabloK® is a modular precast concrete barrier that can be rapidly deployed to provide highly effective protection against hostile vehicle impacts and blasts. Unlike other HVMs, KarabloK® also offers protection from explosions, direct fire weapons systems and RPGs. KarabloK's® blast-proof, crash-proof properties and the ability to easily retro-fit it make it ideal for protecting critical national infrastructure as well as ports, airfields and fuel depots.

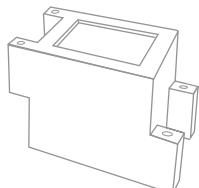
As a perimeter defence, it can have fully integrated security fencing mounted on top and also be fitted with specially modified units forming gateways. KarabloK® can also form chicanes, to slow down approaching vehicles. As an internal blast wall it can be built two or more courses high, has a four-hour fire wall rating\* and it can also act as a bund wall to hold back large spillages.

## Properties

- Quick to assemble
- Can be rapidly dismantled and units reused
- No need for foundations or ground-fixing
- No disturbance to underground services
- Visual impact can be softened with planting
- Different cast finishes available
- Security rated anti-personnel fences easily mounted
- Security access gates easily fitted
- Can be used as a temporary barrier for events
- Unique system enables creation of walls 20+ feet high

## Dimensions

Length: 2100 mm  
Depth: 1430 mm  
Height: 1200 mm



## Applications

Permanent defence of buildings  
Temporary protection for events  
Hostile vehicle mitigation  
Explosion protection  
Firing weapons protection  
Creating chicanes  
Bund wall

\*Based on a KarabloK® barrier 4.8m high.



*KarabloK® has been independently tested as a surface mounted hostile vehicle mitigation system and found to be compliant with IWA14-1:2013. It was hit by a 7200kg vehicle travelling at 80km/h at a 90° angle. The barrier withstood the impact, stopped the vehicle and remained relatively intact.*



*Double layered with fencing installed on top for extra security*



*Placed to slow down approaching vehicles*



*KarabloK® can be quickly deployed as a temporary barrier for events and just as easily removed again*





# CONCRETE BOARDWALK

Our Permatrak® concrete boardwalk system represents the future of boardwalk construction. Created to address the maintenance, safety and longevity issues presented by timber and composite decking boardwalk structures, Permatrak® offers many features and benefits, making it superior to traditional wood or composite construction in numerous ways and its speed of installation suits fast track construction project deadlines.

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For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



# THE COMPLETE BOARDWALK SYSTEM

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The PermaTrak® concrete boardwalk system was invented in 1996 in Australia by landscape architect Franek Savarton. Combining an innate sense of design, along with an understanding of engineering, Franek developed a complete system for the construction of boardwalks that was durable, design-flexible and eco-friendly. PermaTrak® enjoys immense popularity throughout Australia and the USA and now, as manufacturers of quality concrete products, Consent is proud to produce PermaTrak® in the Middle East.

**W**ith its modular nature and mushroom pin connecting system, PermaTrak® structures can easily follow the contours and level changes of a site, making it a cost-effective concrete walkway suitable for a variety of applications including deserts, riverbanks, wetlands, mangroves, rocky mountains and beaches.

PermaTrak® can be custom designed, engineered and manufactured in various sizes and shapes to suit special project needs and bespoke designs. A broad range of architectural finishes in non-fading colours are available such as broom textured, shotblasted as well as the popular “timber look” pattern.

The PermaTrak® system also allows for a variety of railing options. Railings range from utilitarian timber or simple powder-coated steel to ornamental aesthetic railings. The choice is yours.

## Properties

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- Fast installation
- Inherent strength and durability (50-75 year design life)
- Fire resistant
- Slip resistant
- No splinters
- Pressure washable
- Will not rot, warp or twist from heat or UV exposure
- Available in a variety of colours and texture options
- Applicable for all geographic areas including harsh coastal, humid or arid environments
- Free of hazardous chemicals that can leach into surrounding soils

## Applications

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- Boardwalks and promenades
- Pedestrian footbridges
- Cycle-ways
- Buggy express paths
- Accessways and crossings
- Landing pier or jetty



Daria Island, Dubai



Sustainable City, Dubai



Wolf Lake, Australia



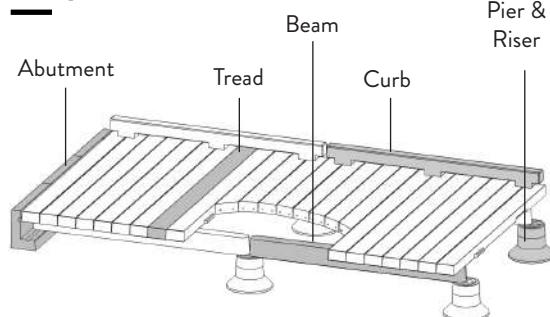
**T**he easy installation and integral engineered components means that PermaTrak® can be installed very quickly – up to 50 linear metres per day. Only basic setting out skills and minimal equipment and tools are needed since onsite power, in situ cutting, screwing or bolting are usually not required. Span over span construction is possible using light machinery and PermaTrak® can be installed on elevated in-situ footings such as marine piles and onto breakwaters. In addition, due to its long life performance, the system can be extended or relocated at any time.

#### Dimensions

\* Other sizes available upon request

Length (mm)	Width (mm)	Thickness (mm)
2000	200	125
2000	1000	125
2000	1750	125
2400	450	150
3000	300	150

#### Components







# STREET FURNITURE

There are times when what is available does not fit exactly with what you had in mind. From litter bins with logos embedded and specialised seating designs to a completely unique concrete design concept, we can cater to it all. Need a fusion metal and concrete bench shaped like a donut? Done. It's as simple as that. Send us sketches or pictures of your idea and our professionals will help make it a reality. Just browsing for ready made options? Consent has also partnered up with talented Belgian designers UrbaStyle to provide you with a wealth of creative design options for your garden or streetscape projects.

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For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)

# PLANTER POTS

CREATE A GREEN STATEMENT

Enhance your outdoor designs using concrete planter pots that complement the space while functionally retaining your chosen plants. Durable enough to withstand the smallest of shrubs to the tallest of palm trees, explore your options from our separate catalogue in partnership with UrbaStyle, a Belgium based design company or send us drawings of your own concepts for a bespoke touch.



1 / WHITE BOWL PLANTER Private villa, Dubai. 2 / TALL RAISED PLANTER The Dubai Mall. 3 / BEIGE PLANTER Maryam Island, Sharjah. 4 / LARGE ROUND PLANTER Kite Beach, Dubai. 5 / CHAMFERED EDGE PLANTER Dubai World Central International Airport. 6 / WHITE ROUNDED PLANTER The Dubai Mall. 7 / SQUARE PLANTER Intercontinental Hotel, Festival City. 8 / BENCH PLANTER COMBO Avanti Tower, Dubai.

# SEATING

UNITING ART WITH FUNCTION

At Consent, we believe that seating should not be regarded as a mere afterthought but as an artform in its own right. Choose from our extensive collection of exotic benches in partnership with UrbaStyle or express your creativity and personalise your space with your own custom designs. For more in-depth bench options, please request the separate UrbaStyle brochure from us.



**1 / TAPERED BENCH** New York University, Abu Dhabi. **2 / FREEFORM BENCH** Studio City, Dubai. **3 / BENCH WITH LOGO** Al Zahia, Sharjah. **4 / PERFORATED BENCH** Palm Jumeirah, Dubai. **5 / SNAKE BENCH** New York University, Abu Dhabi. **6 / CURVED BENCH** New York University, Abu Dhabi. **7 / BENCH WITH FOUNTAIN** Dar Wasl. **8 / BENCH WITH PLANTER** Innovation Hub, Dubai. **9 / SLOPED EDGE BENCH WITH PLANTER** Al Maryah Island, Abu Dhabi.

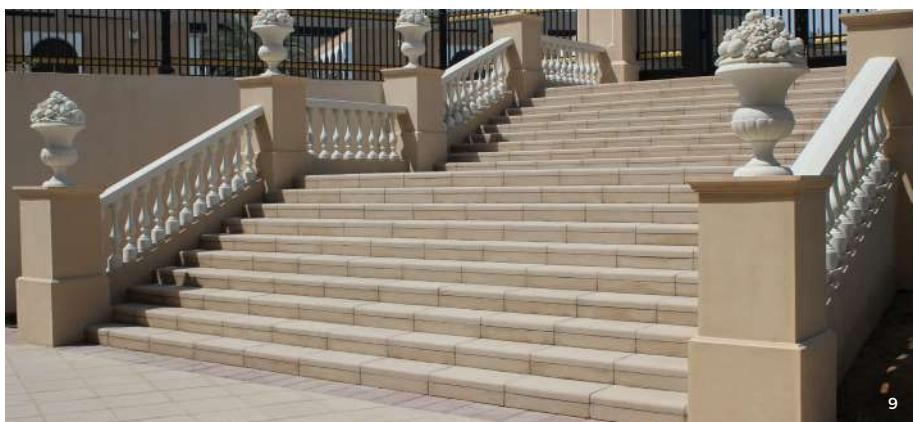
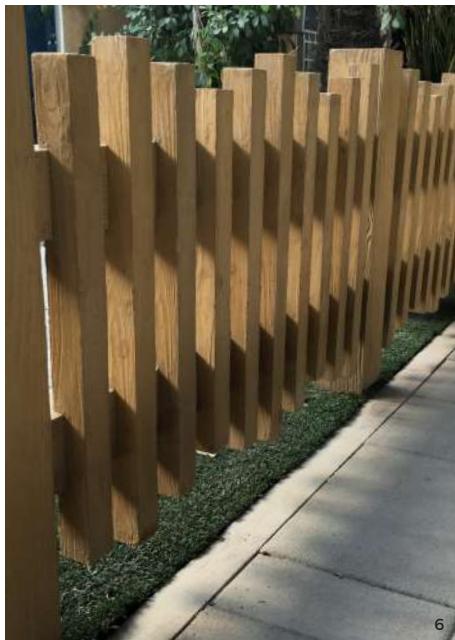
# OTHERS

## COUNTLESS POSSIBILITIES

On top of the previously mentioned products, Consent's bespoke range extends to concrete tree grates, tables, jersey barriers, fences, barbecue stations, steps, railings, ping pong tables or chess tables, etc. If what you are looking for hasn't been portrayed in this catalogue, rest assured we can still make it for you. Our precast capabilities are endless, all we need to know is what you want.



1 / FOUNTAIN Al Andalus Jumeirah Golf Estates, Dubai.



**2 / PICNIC BENCH SET** Sharjah Corniche Beach. **3 / BARBECUE** Al Mamzar Park, Sharjah. **4 / CHESS TABLE & CHAIRS** E19 Park, Abu Dhabi. **5 / ROUND BOLLARD** Consent display garden. **6 / WOODEN-LOOK FENCE** Consent display garden. **7 / LITTER BIN** Butterfly Building, Dubai. **8 / BOLLARD WITH LIGHT** Shangri-la Hotel, Dubai. **9 / STAIRS** Sharjah Municipality Main Office. **10 / JERSEY BARRIERS** Consent factory. **11 / COPING** Zabeel Park, Dubai.



# iSTAREEH

Consent's first smart bench

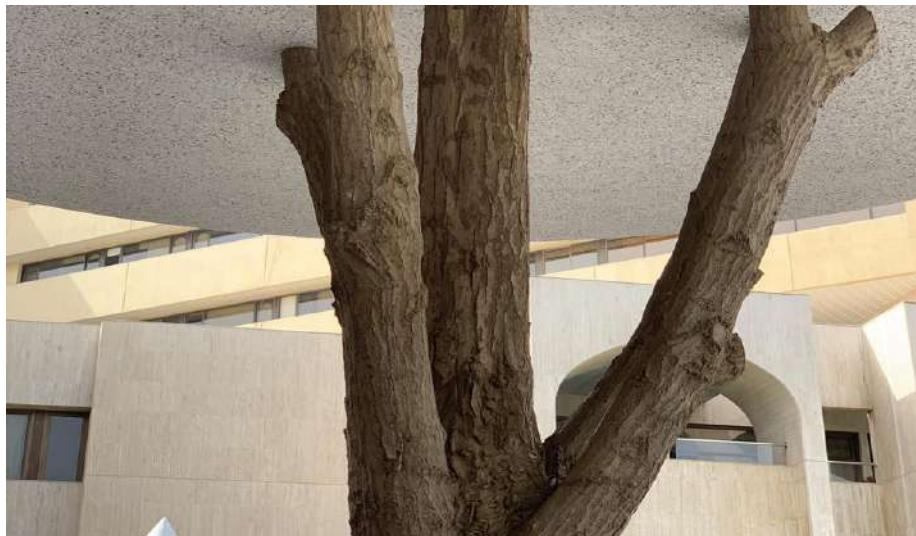
Consent is proud to present iSTAREEH, a self-sufficient smart bench that generates and uses its own energy through solar panels hidden on its roof. In addition to having WiFi capabilities, iSTAREEH is equipped with four double USB ports located on opposite ends of the seat as well as an additional wireless charge point, providing a total of 9 spaces for charging various devices.

Other notable elements iSTAREEH has includes but is not limited to, a space for placing shrubs or flowers, shade from the sun, as well as interactive lighting and water features with sensors that are activated when someone approaches within a metre of the bench.

Istareeh (meaning 'sit down and rest' in Arabic) is the first fully concrete smart bench locally made in the UAE. This product shown is just an example of what is possible with Consent. iSTAREEH is a flexible concept and can be adapted to suit your own unique requirements.



*Digital concept render of iSTAREH*



*Realistic 'tree' made of concrete*



*9 charging points and WiFi enabled*



*Lights can be modified to any colour*





# THE DESIGNER EDIT

Consent is proud to have partnered up with Urbastyle, a Belgium based company that works with designers and architects from all over the world to provide you with a wide range of street furniture that blends artistic design with urban needs. All products are manufactured locally in the UAE. These two pages are just a few examples of available designs, in order to view the full collection please contact us and we will provide you with the catalogue.

For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)



1/ CALET 6 BENCH Daria island, Dubai.



**2 / IN AND OUT BENCH** Khorfakkan beach, Sharjah. **3 / LINE & LINE BENCH** Consent display garden. **4 / NOBEND SEAT** Jebel Jais, Ras al Khaimah. **5 / BENCH CIRCULAR** Jebel Jais, Ras al Khaimah. **6 / LED LINE 4** Butterfly building, Dubai. **7 / SOFT SEAT BENCH** Consent display garden. **8 / SAND TREE GRATE** Consent display garden. **9 / PAPERBOAT LITTER BIN** Urbastyle office, Belgium. **10 / BENCH WITH SKATE STOPPERS** Zaha Hadid Pierre Vives buiding, France. **11 / ROMA BENCH & BOLLARD** The Design Museum, Denmark. **12 / WOOD LINE ROUND BENCH** Al Jimi mall, Al Ain.





# ALL THE EXTRAS

The next few pages in this section will help shed light on certain common situations you may face with your concrete products, provide you with our warranty information as well as offer maintenance tips for our pavers and Umbriano®. Thank you for trusting Consent and for letting us be a part of your design. We hope to hear from you soon!

For other Consent products please visit our website at:  
[www.consent.ae](http://www.consent.ae)

# INFORMATION REGARDING YOUR NEW PAVERS

## LIMITED WARRANTY

Consent precast concrete interlocking pavers are backed by a 5 years warranty to the original purchaser, for the product to be used as intended. This assurance of product quality is applicable where products have been correctly installed and maintained to manufacturer's recommendation. This warranty does not apply to damage resulting from accident, alteration, overloading, misuse, tampering, negligence or improper installation. Damage caused by aggressive chemicals or paint, subgrade settlement or any force of nature events are also not covered. All warranty claims must be made prior to the removal or disposal of the defective product. Warranty does not include removal, installation or transportation to replace the material.

## PAVER MAINTENANCE

To remove general dirt and detritus, regular brushing is recommended. All paving should be swept with a soft brush or broom regularly to remove dust that tends to accumulate especially in sheltered corners etc. If the colour of the paver becomes masked, it may be refreshed by scrubbing gently with acid-free soap and warm water, either by hand or by using mechanical sweepers. If a power hose is used, then care must be taken to avoid the removal of the jointing material. Do not use high-pressure power washers as aggressive power-washing can damage the product surface.

If a mechanical sweeper is used, ensure that the equipment's purpose should be designed to sweep smooth concrete pavers. Where possible, low-pressure tires should be fitted to reduce the risk of breaking or cracking the pavers. Soft brushes should be used and wire brushes avoided.

Absorb any spilt liquid or stains as quickly as possible with paper or cloth. Gently scrub the remaining stain with warm water and soap. Rinse with plenty of water and repeat if necessary. Ensure all soap has been thoroughly washed from the surface when done.

## COLOUR VARIATION

Due to concrete being made from natural raw materials, some variation in colour, even within the same concrete batch, is impossible to avoid. Paver colours are affected by the variances in the natural raw materials, concrete mixture moisture content, climatic conditions and other variations. We do our best to try and keep these variances to the minimum. It is strongly recommended to lay the pavers using a combination of 3 to 4 bundles from different batches to minimise any visual disparities.

## WEATHERING

Wear and tear from general usage and constant exposure to site conditions is a natural occurrence and to be expected. With regular maintenance, the effects of weathering can be slowed down significantly.

## PICTURE FRAMING

**What it is:** A dark, wet-look border on the edges of concrete surfaces that eventually fades to a patchy pale colour when dry.

**Why it happens:** When water accumulates in the joints between pavers and gets trapped underneath, the bottom edges begin to absorb the water. Due to heat from sunlight, the water will rise to the surface edges through capillary action leaving a wet look. This capillary action also brings up minerals and salts to the surface which remain as a light, white patchy residue on the edges once the water evaporates.

**Solution:** The presence of picture framing does not compromise the structural integrity and is not indicative of a flawed product. It is best to avoid its formation by making sure water has proper drainage channels. For pavers surrounded by landscaping, proper care should be taken to avoid irrigation water accumulating under the paver.

## SALT ATTACK

**What it is:** Erosion of the concrete surfaces over time due to salt.

**Why it happens:** Salt attack occurs when a concrete surface is regularly exposed to any water that contains salt, such as fertilisers, natural pesticides, coastal spray and even just from the atmosphere of a marine area. When the water evaporates, the salt settles inside the surface layer of the concrete which then, over time, forces the concrete to expand. Eventually, this can lead to cracking, chipping and crater-like holes. This damage is what's referred to as salt-attack.

**Solution:** Salt attack damage is irreversible so the best method is prevention. Please notify our specialists if you plan to put our products in a coastal area so that we may help you decide how to best protect the product using our targeted sealants.

## EFFLORESCENCE

**What it is:** A white deposit of calcium carbonate on concrete surfaces.

**Why it happens:** It results from the reaction of calcium hydroxide with carbon dioxide from the air. The calcium hydroxide is a byproduct when cement hydrates. It is slightly soluble in water and migrates to the surface through capillary action. The calcium hydroxide remains on the surface and reacts with carbon dioxide, which results in the white powdery crystals left on the surface.

**Solution:** The presence of efflorescence does not compromise the structural integrity and is not indicative of a flawed product. This deposit, depending on weather conditions, will dissipate naturally over time or can be removed quicker by using suitable cleaning chemicals available in the market.

# INSTALLATION GUIDE FOR INTERLOCK AND GRANIX™

## GENERAL GUIDELINES

**Step one:** Before any work starts, have the engineer in charge check for underground pipes and wires. Stake out location and depth of pipes and wires.

**Step two:** Excavate the area to provide a stable base on which to begin the paver installation. Excavate all unsuitable, unstable, or unconsolidated sub-grade material. When estimating the depth of excavation, add the height of the paver unit, the depth of bedding sand, and the thickness of the compacted road base material to get an estimate of total needed depth.

The amount of base material is often determined by a soil engineer and depends on the propensity of the soil to expand, saturate, or hold water which might then cause the pavers to move. Base thickness normally ranges from 150 mm - 300 mm. A base for vehicular traffic is typically 250 mm - 300 mm. In extreme soil or other conditions, the base can be up to 450 mm deep. These are just general guidelines, please refer to the relevant standard for preparation of the base according to actual site requirements.

Make sure all waterproofing and underground services are completed before proceeding to step three.

**Step three:** Fill the excavated site with the appropriate amount of road base material and compact using a vibrating plate compactor. The base material itself should be a granular type that compacts easily and must be well compacted and level to provide a smooth, even surface on which to lay the bedding sand. Make sure to account for drainage. In some cases where a concrete base is available, no compaction is required.

**Step four:** Install edge restraints. Lay the border edge restraints on the base material and secure with steel spikes to hold the edge restraints in place. Edge restraints are an important part of interlocking concrete pavements. By providing lateral resistance to loads, they prevent the interlocking units from separating.

**Step five:** Spread the setting bed. Use single size gravel (3 mm - 5 mm) and spread on top of the compacted base material to a height of 25 mm - 35 mm. For mortar beds, apply a 50 mm thick 1:5 sand/cement mortar.

**Step six:** Install your pavers in the desired pattern making sure to place pavers flat on the sand bed. Pavers should be taken from several pallets or bundles at a time to ensure an even color mix. Do not disturb the level of the bedding sand. When a row or pattern is in place, use them as a guide for subsequent pavers. Interlocking pavers have built-in spacer nibs on their edges to provide an automatic 2 mm joint spacing. When laying concrete tiles such as Granix™, use a rubber hammer to adjust the level. Because tiles do not have in-built spacer nibs, maintain a minimum of 3 mm - 5 mm gap joint between tiles. We recommend using our Granix™ PaveSpacers to guarantee a uniform joint spacing. For more information on Granix™ PaveSpacers, please refer to page 69.

Cutting any pavers should be done either with a diamond disc cutting machine (wet type) or a manual grinder fitted with a diamond disc.

**Step seven:** After all the pavers and respective borders have been placed, if a sand bed base is used, spread and sweep a light layer of fine black or dune sand over the top of the pavers. Pass over the pavers once using a vibrating plate compactor. This single pass will help set the pavers into the bedding sand and cause some sand to move up between the joints of the pavers, beginning the interlocking process. Add more sand on top and repeat. You will generally need to run the vibrating plate compactor over the pavers 2 or 3 times, or until the pavers no longer settle into the sand bedding. Sweep any remaining sand into the joints until they are completely filled. For Granix™ tiles, make sure that there is an additional cushioning layer between the tile and the vibrating compactor to prevent and protect against surface scratches.

If a mortar base bed is used, use grout matching the pavers as specified to fill the joints. No vibration compaction will be needed. Make sure to apply a little water for the next two days to provide enough moisture as the mortar cures.



# Clean. Protect. Care for.

Cleaning tips for Umbriano concrete blocks

# How to clean...



## ... Butter stains or other grease stains?

First gently scrape away any butter residue and try to absorb the grease stain as quickly as possible with paper towels. Then gently scrub the remaining stains with warm water and detergent. Rinse with plenty of water, repeat if necessary. In particularly stubborn cases, treat the surface with grease removers (e.g. Akemi Oil and Grease or Lithofin Oil-Ex). Then scrub the surface with a mix of warm water and detergent. Repeat if necessary.

\* Beware that the CleanTop® surface could be damaged by the use of cleaners containing solvents (oil remover). Test on an inconspicuous area first before applying.



## ... Patches of leaves?

For stubborn dirt, treat the surface with a chlorine based stonecleaner. Leave on for a long time and repeat if necessary. Test on an inconspicuous area first before applying.



## ... Cola or other sticky drinks?

Absorb the spilt liquid as soon as possible with a cloth or paper towels to limit the concrete from acidic exposure. If the liquid has sunk in already, use carbonated soda water to gently wash the surface. Clean stronger stains with warm water and detergent using a scrubbing motion. Rinse with plenty of water and if necessary, repeat. For very stubborn dirt surface, use a chlorine based stone cleaner. Test on an inconspicuous area first before applying.



## ... Oil?

First try to absorb the oil stain as quickly as possible with paper towels. Then gently scrub the remaining stains with warm water and detergent. Rinse with plenty of water, repeat if necessary. In particularly stubborn cases, treat the surface with grease removers (e.g. Akemi Oil and Grease or Lithofin Oil-Ex). Then scrub the surface with a mix of warm water and detergent. Repeat if necessary.

\* Beware that the CleanTop® surface could be damaged by the use of cleaners containing solvents (oil remover). Test on an inconspicuous area first before applying.



## ... Chewing gum?

Carefully peel the majority of the chewing gum with a knife. For the remaining residue, rub the area with ice so that it becomes brittle and can be removed with a spatula. If necessary, treat any residual contamination of the surface with a chlorine based stone cleaner.



## ... Coffee or tea?

Absorb the spilt liquid as soon as possible with a cloth or paper towels. If the liquid has sunk in already, use carbonated soda water to gently wash the surface. Clean stronger stains with warm water and detergent using a scrubbing motion. Rinse with plenty of water and if necessary, repeat. For very stubborn dirt surface, use a chlorine based stone cleaner. Test on an inconspicuous area first before applying.



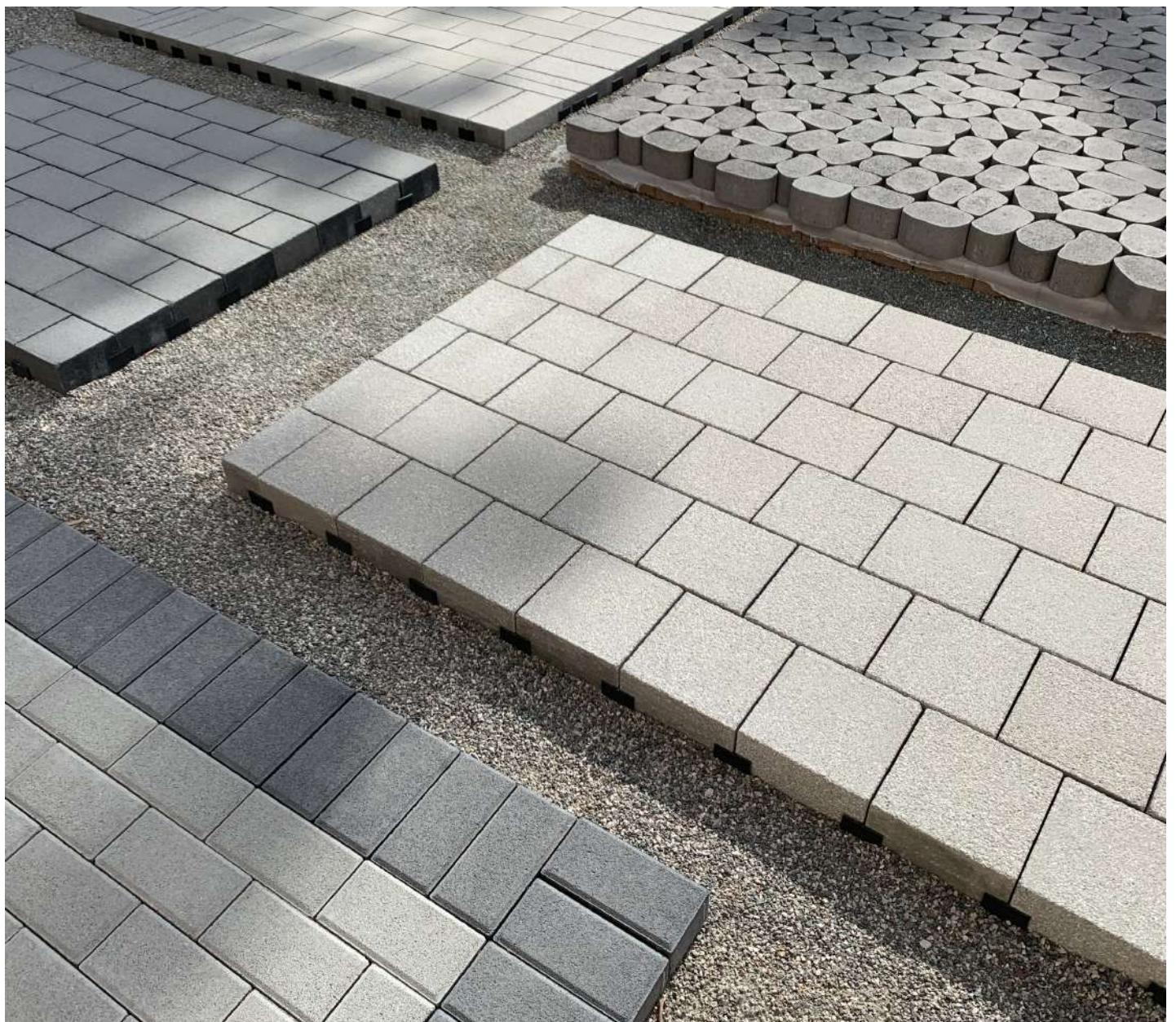
## ... Ketchup or mustard?

First gently scrape away any residue and try to absorb the stain as quickly as possible with paper towels. Then gently scrub the remaining stains with a mix of warm water and detergent. Rinse with plenty of water, repeat if necessary. If the sauce has sunk in already, use carbonated soda water to gently soak the surface first before using the detergent-water mix. For very stubborn dirt surface, use a chlorine based stone cleaner. Test on an inconspicuous area first before applying.



## ... Fruit stains?

First gently scrape away any residue and try to absorb the stain as quickly as possible with paper towels. Then gently scrub the remaining stains with a mix of warm water and detergent. Rinse with plenty of water, repeat if necessary. If the sauce has sunk in already, use carbonated soda water to gently soak the surface first before using the detergent-water mix. For very stubborn dirt surface, use a chlorine based stone cleaner. After treatment with the chlorine cleaner, repeat the cleaning process with warm water and detergent.



For more information, please feel free to come pay us a visit at our factory show garden in Al Quoz



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