



# CONCRETE PAVING



**Marshalls**

*Creating Better Spaces*

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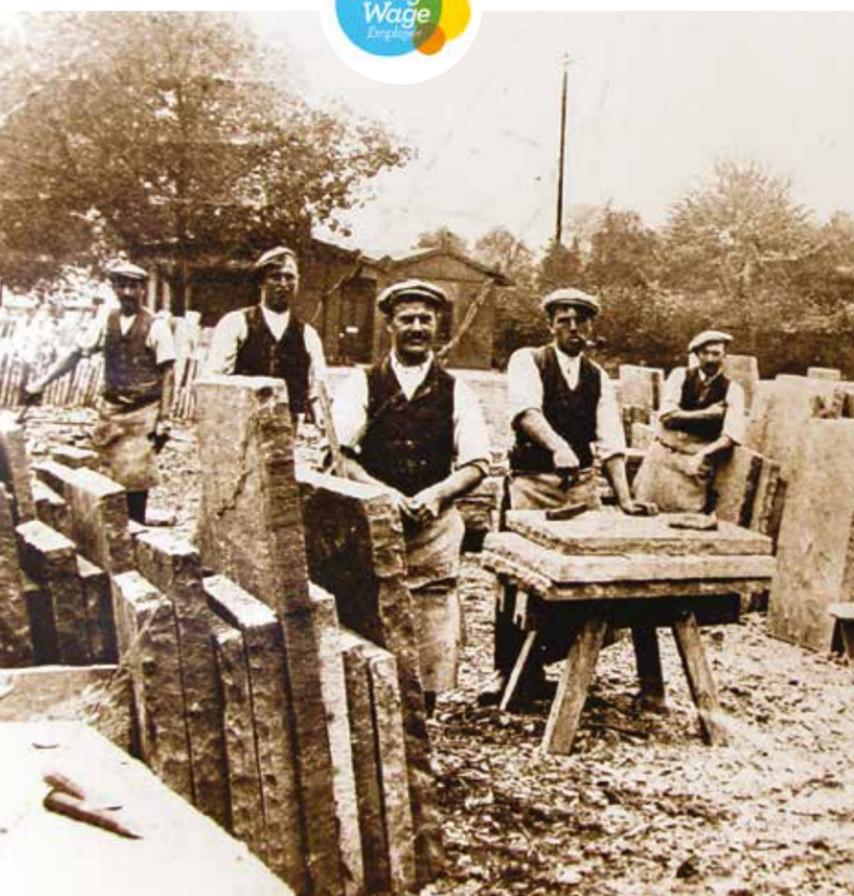
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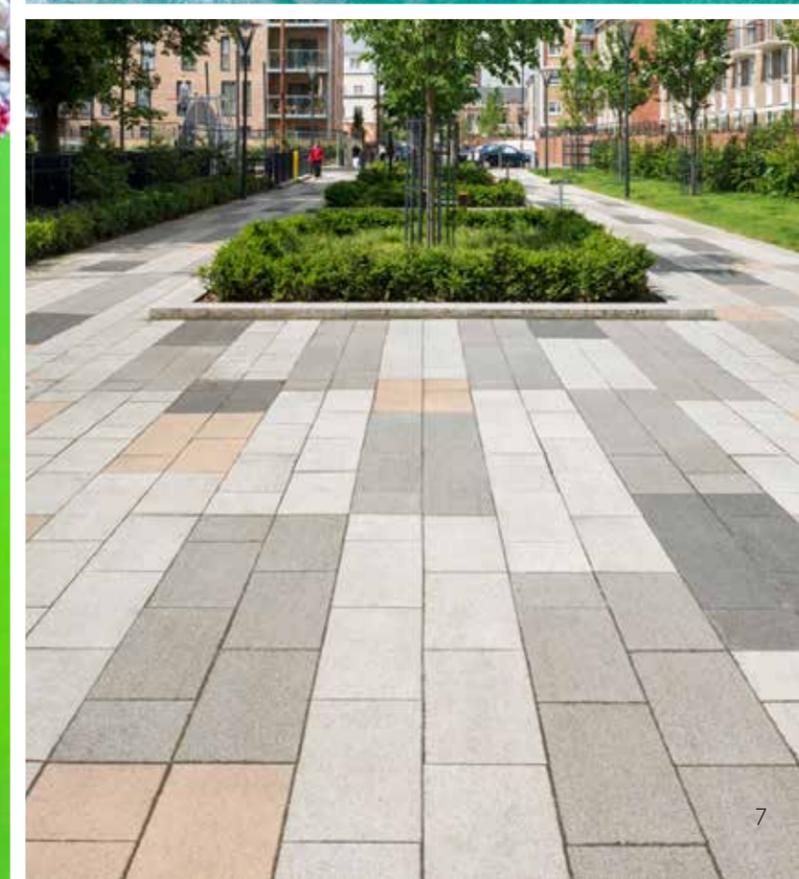
Marshalls' concrete paving offer has been enhanced to give you maximum choice and flexibility in colour, texture and size.

This brochure takes you through not only the full breadth of our paving ranges, but also includes details of ancillary products which can complement your chosen paving. It also highlights our specialist design service and showcases our online paving design tool, which have been developed to make choosing, specifying and installing our products as easy as possible.



Marshalls is a member of the Ethical Trading Initiative (ETI).





# INSPIRE ME WITH COLOUR

DEFINITION: Colour is our visual perception and interpretation of the visible light spectrum on an object.

# INSPIRE ME WITH COLOUR

Marshalls' concrete paving portfolio offers complete design creativity with its broad range of colours. Ranging from warm, subtle tones to cooler, contemporary colours, and even vibrant, bold shades, there are plenty of choices which are ideal for highlighting statement projects.

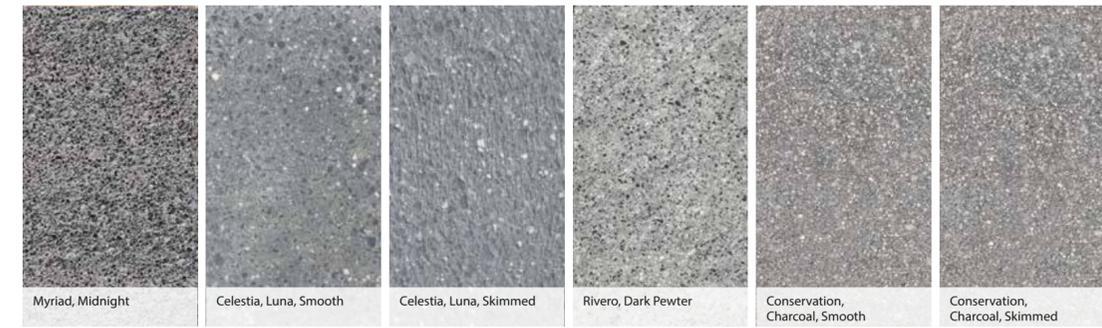
Utilising different colours and sizes of paving can transform an open space either through subtle, incremental colour variations, or bold contrasts of solid colours which add personality and impact to the finished scheme.



INSPIRE

CONCRETE PAVING PRODUCTS

INSPIRE ME WITH COLOUR



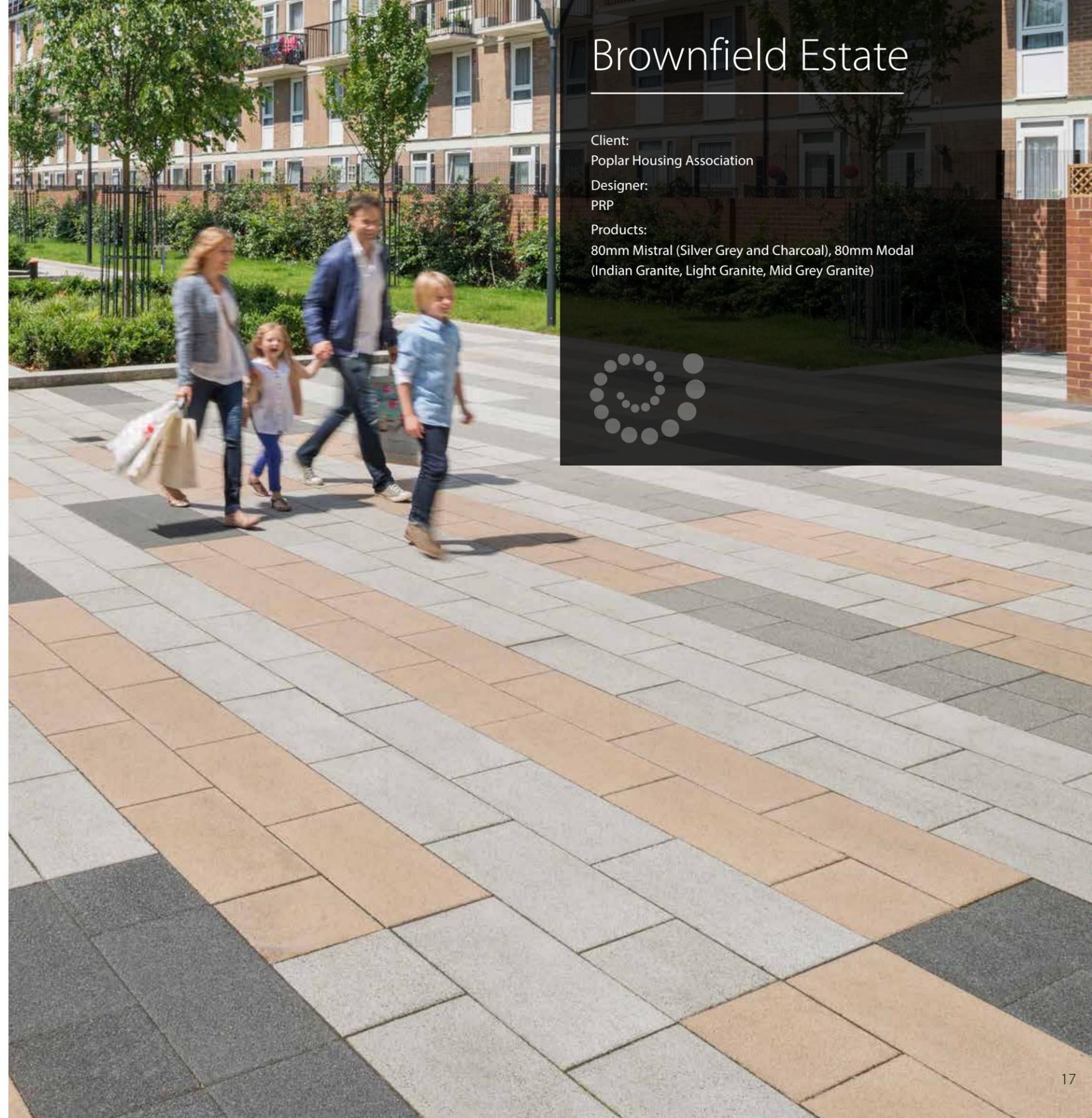


## Brownfield Estate

### Colour Case Study

Brownfield Estate in east London is home to the Grade II listed Balfon Tower, an example of Erno Goldfinger's brutalist concrete architecture. When PRP were approached to regenerate the area the landscaping was an integral part of the design process.

The area had previously been ill-defined with little to indicate which were public and private areas. To help identify boundaries, the designers employed large, bold Modal paving, part of the internationally recognised La Linia range in strong colours to indicate entrances and around buildings, silver grey Mistral sets for communal footways and charcoal Mistral sets to identify private amenity space. This is an excellent example of how thoughtful use of colour and texture can indicate shared spaces without detracting from the style of the surrounding architecture.



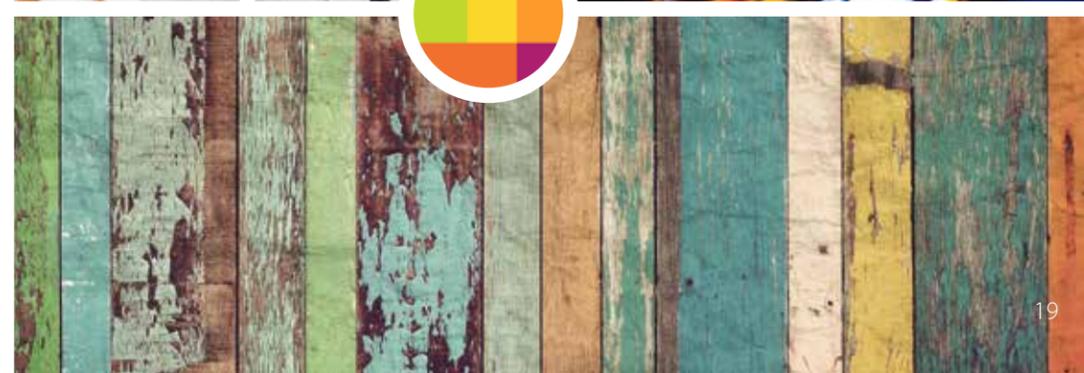
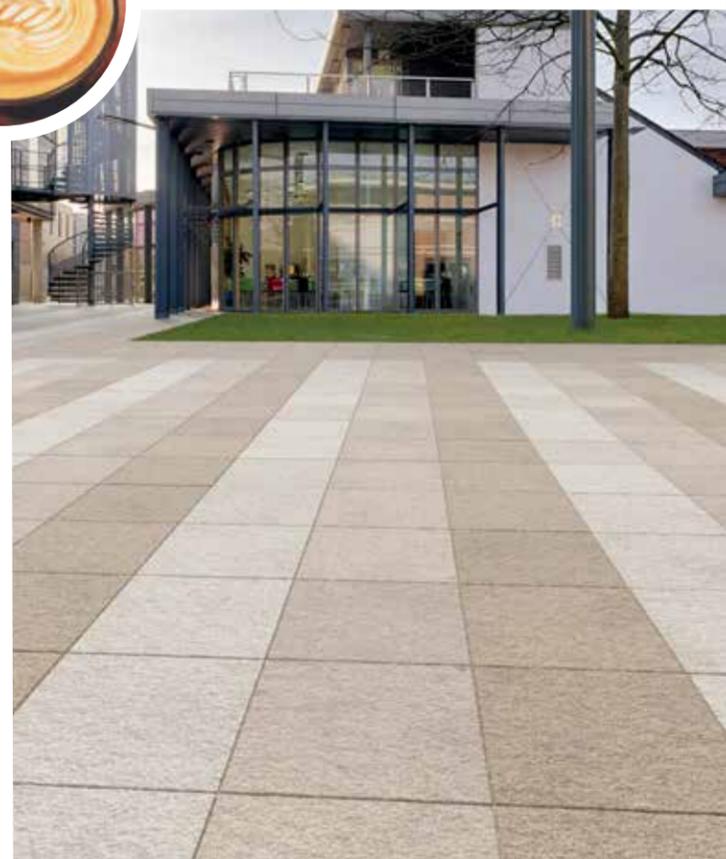
## Brownfield Estate

Client:  
Poplar Housing Association

Designer:  
PRP

Products:  
80mm Mistral (Silver Grey and Charcoal), 80mm Modal  
(Indian Granite, Light Granite, Mid Grey Granite)





# INSPIRE ME WITH **BLENDS**

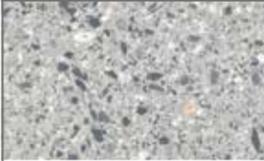
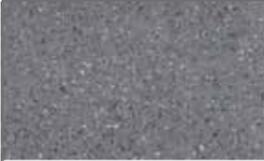
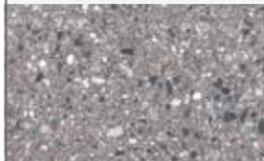
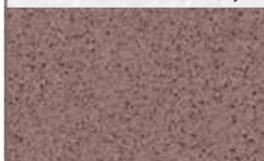
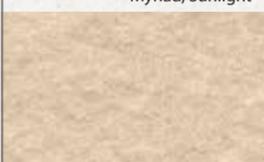
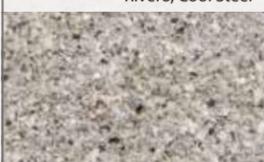
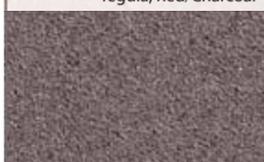
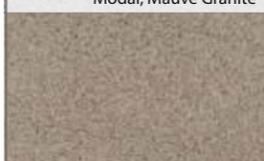
DEFINITION: A "blend" is a mixture of two or more different, but usually compatible, substances or components.

# INSPIRE ME WITH BLENDS

A blend usually constitutes a deliberate mixing of different elements to create a palette of colours and interest across a space.

Blends may be applied to colour, texture, size or pattern, dovetailing and mingling to create a more harmonious

whole. Achieving this elegant combination enables the landscapes to blend beautifully, in commingling styles, shapes and patterns.

CREAMS	LIGHT GREYS	MID GREYS	DARK GREYS	RED/PURPLES
				
Organa, Cotton	Rivero, Urban Silver	Celestia, Nebula	Celestia, Luna	Conservation, Heather Grey
				
Modal, Light Cream Granite	Modal, Light Granite	Modal, Mid Grey Granite	Conservation, Charcoal	Celestia, Lyra
				
Modal, Oatmeal Granite	Myriad, Moonlight	Myriad, Twilight	Rivero, Dark Pewter	Modal, Blush Granite
				
Myriad, Sunlight	Myriad, Morning Light	Rivero, Cool Steel	Mistral, Graphite	Tegula, Red/Charcoal
				
Organa, Linen	Conservation, Silver Grey	Mistral, Silver Grey	Modal, Anthracite Granite	Modal, Mauve Granite
				
Organa, Hessian	Modal, Sliver Grey Granite	Myriad, Midnight	Modal, Charcoal Grey Granite	Modal, Indian Granite



Coppice



Modal



Coppice



Organa

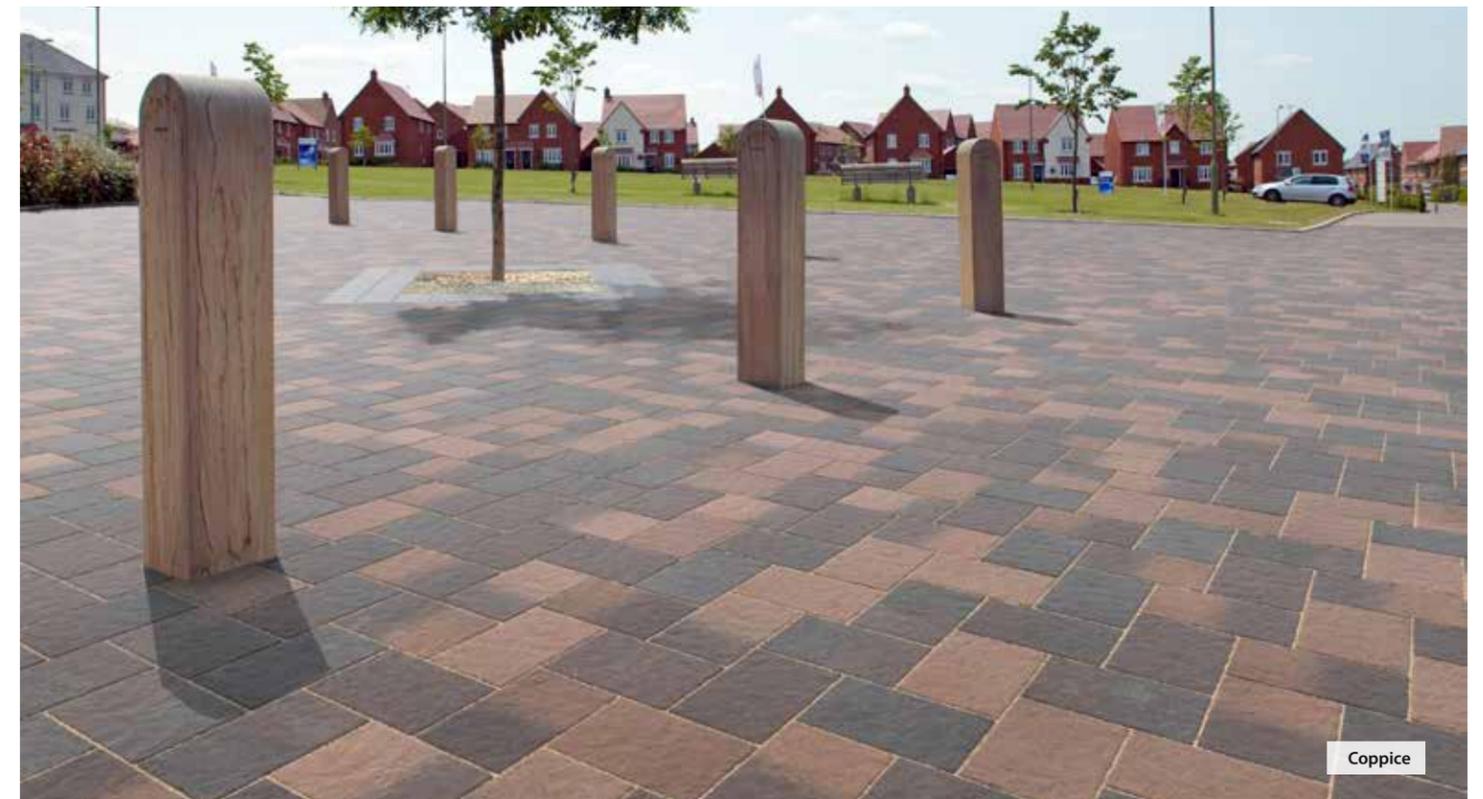


Modal, Mistral & Conservation

# INSPIRE ME WITH BLENDS

The breadth of choice within Marshalls' paving portfolio allows you to freely blend colours, textures, sizes and patterns to create a truly individual aesthetic.

Blending paving together in bespoke combinations creates innovative and unique palettes which can alter the mood of a space.





## Stretford Mall

### Blends Case Study



As part of a major project to regenerate the Stretford area of Manchester, Gillespies (Altrincham) were commissioned by Trafford Council to create a more open, attractive and usable space.

The first stage of the project was to re-imagine the area outside the "Stretford Mall" shopping centre on Chester Road. This involved a major reworking of traffic (both pedestrian and vehicular) across the area. The dark and unpleasant underpasses were filled in, bringing pedestrian traffic to the surface. This means that large volumes of foot traffic now pass over the road using the brand new pedestrian crossings across the junction.

The combination of Modal paving and Mistral textured paving immediately gives the area a contemporary, urban feel through the use of a subtle, modern blend. The use of slick greys are given a warm edge via the subtle pink tones of Modal Indian Granite, all of which is illuminated with Geo Light Stacks to create a striking, welcoming and modern space.



# Stretford Mall

Client:  
Trafford Council  
Designer:  
Gillespies (Altrincham)  
Contractor:  
AE Yates  
Products:  
Paving: Modal (Indian Granite & Mid Grey Granite) & Mistral (Silver Grey)  
Landscape Furniture: Geo Light Stacks & Ecofet Longo Benches.





## INSPIRE ME WITH **SIZE**

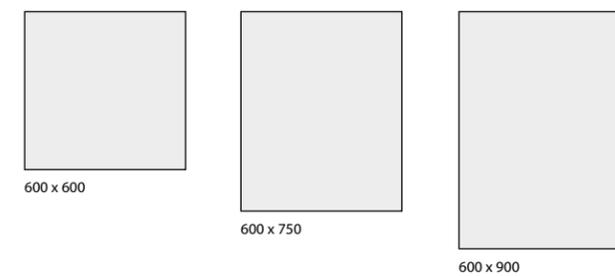
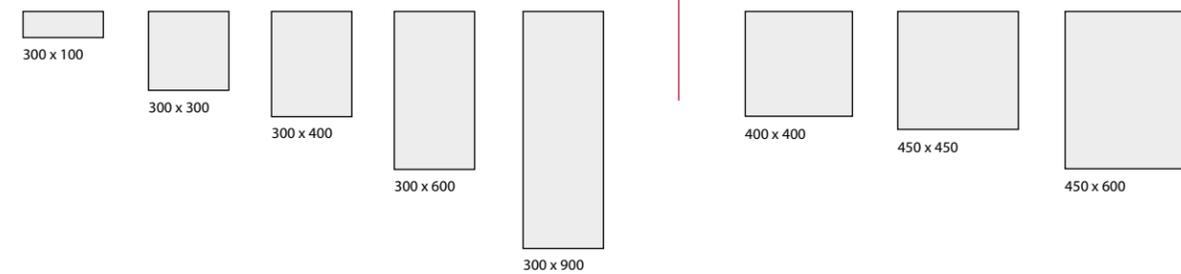
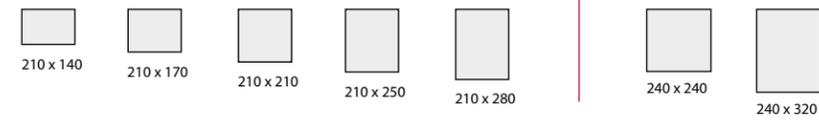
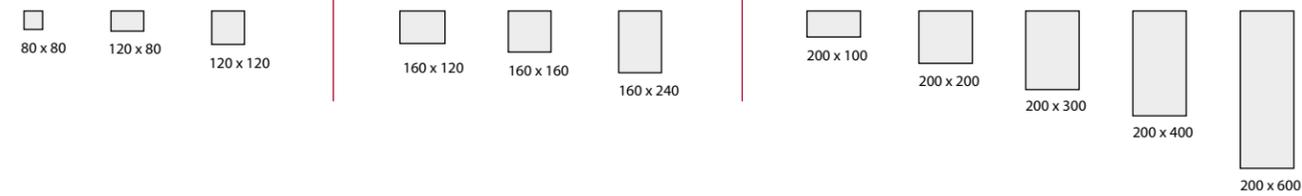
DEFINITION: The dimensions or magnitude of a thing; how big something is.

# INSPIRE ME WITH SIZE

Selected proportions and fundamental size choices have real significance within the built environment.

Mixing sizes and facets provides a unique opportunity to pattern or decorate the area, using these fundamental qualities to create defined shapes and dynamic spaces.

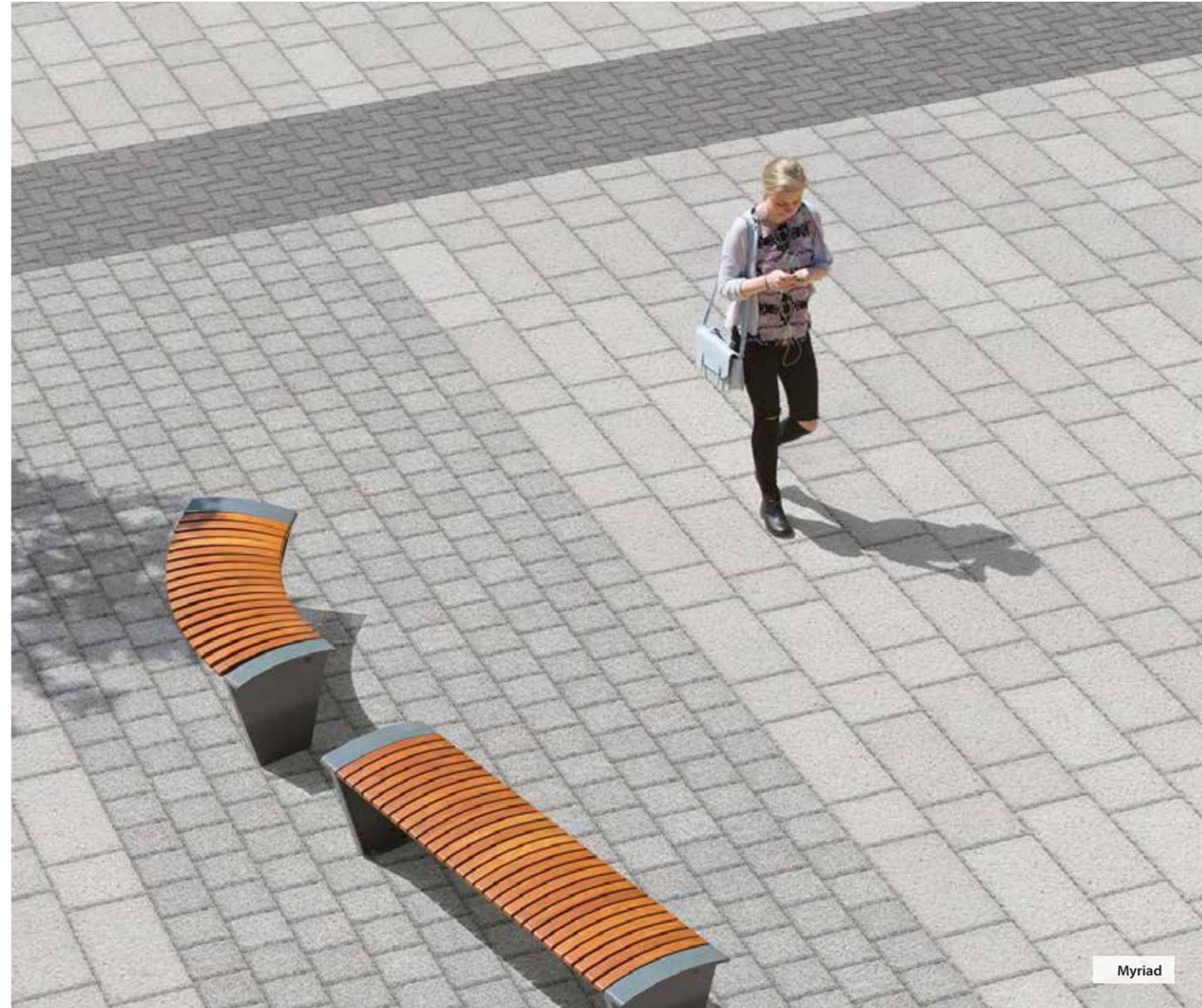
## Plan Sizes



# INSPIRE ME WITH SIZE

The dimensions of paving units and the orientation they are laid in can affect the feel of a space. Linear planks draw the eye to surrounding features whilst smaller elements create a busier, more traditional feel.

Combining mixed sizes together on a scheme allows you to balance the functionality of multi-use spaces with eye-catching design creativity.



# Edge Lane

Client:  
Derwent Holdings  
Designer:  
Barnes Walker  
Contractor:  
Caddick  
Products:  
Modal (Anthracite Granite) & Myriad (Midnight, Twilight,  
Morning Light, Moonlight).



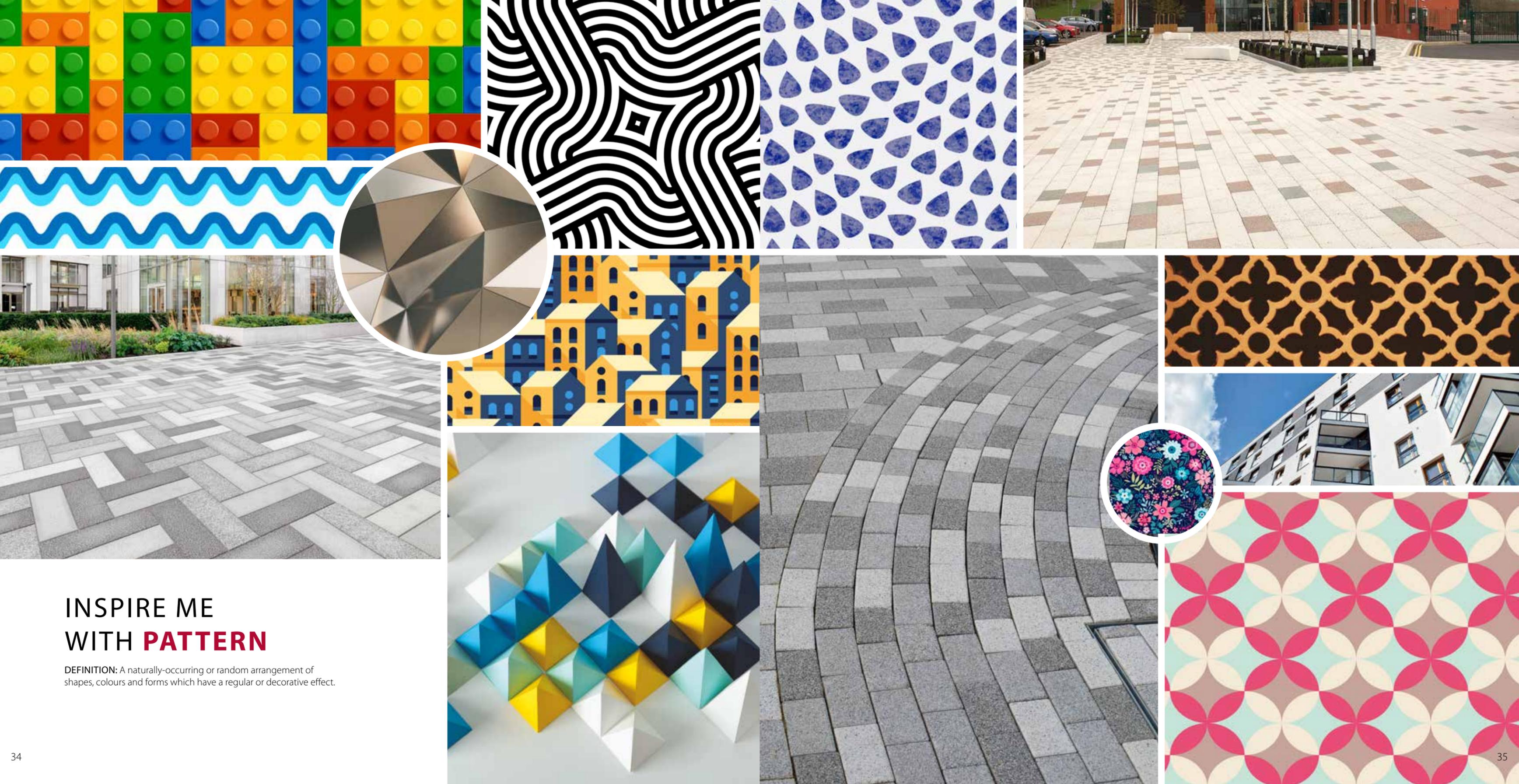
## Edge Lane Size Case Study

A relocation from the B&Q Edge Lane store, the Liverpool shopping park store aimed to give its customers an upgraded shopping experience.

The 49,000 square foot store is one of the first B&Qs in the country to feature a new layout and refreshed departments.

As well as a complete overhaul internally, the exterior of the store has been given a striking frontage. Marshalls was enlisted to supply Modal paving, part of the internationally recognised La Linia range in Anthracite Granite, and a mix of almost all the available 80mm Myriad paving sizes and colours.

The large selection of sizes created an unmissable pattern surrounding the contemporary new store, with the varied grey hues perfectly contrasting with the iconic orange of the storefront.



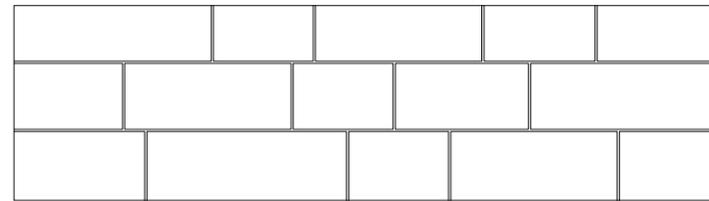
## INSPIRE ME WITH **PATTERN**

DEFINITION: A naturally-occurring or random arrangement of shapes, colours and forms which have a regular or decorative effect.

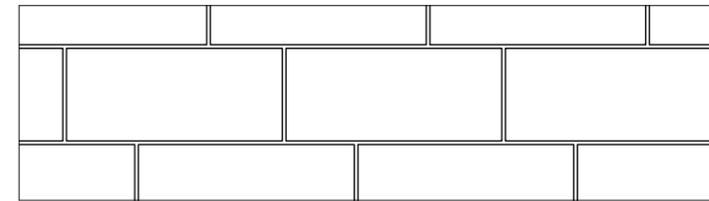
# INSPIRE ME WITH PATTERN

Configuring a regular and intelligible form or sequence, pattern and composition can successfully emphasise specific areas within the built space, enabling the eye to interpret structures and planes.

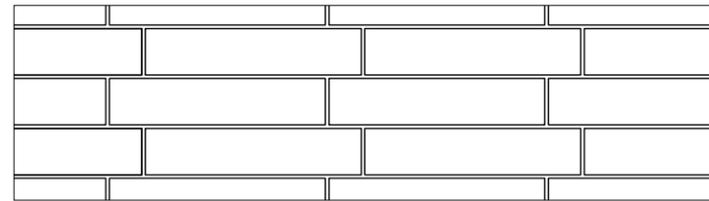
Pattern works to create a repeated decorative design that acts to break up shapes or large areas of space, creating interest and enhancing landscape design.



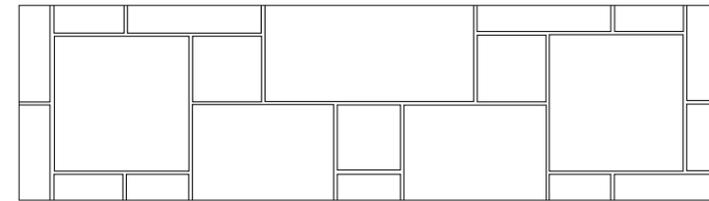
GAUGED WIDTHS RANDOM LENGTHS



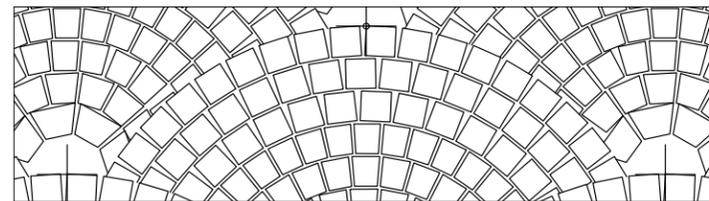
THIRD BOND



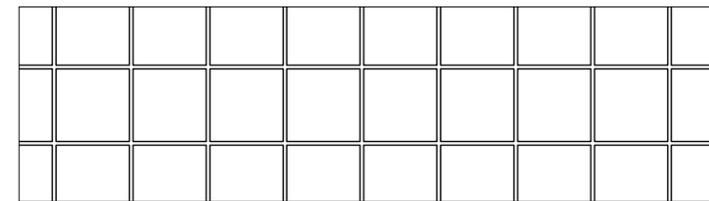
STITCH BOND



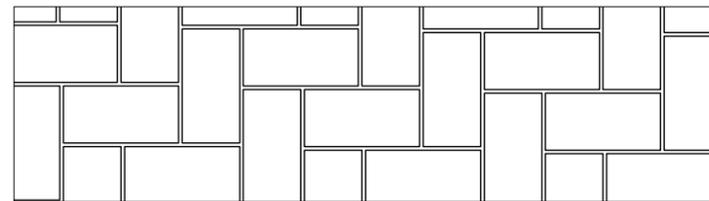
DUTCH



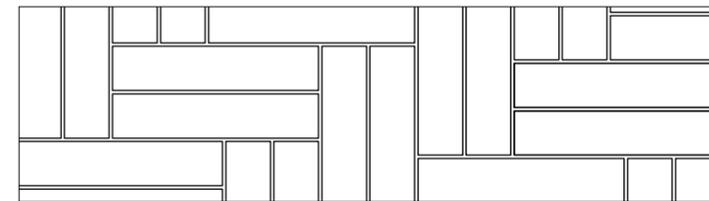
FAN TAILS



STACKER BOND



HERRINGBONE



DOUBLE HERRINGBONE



Celestia



Modal, Mistral & Conservation



Modal

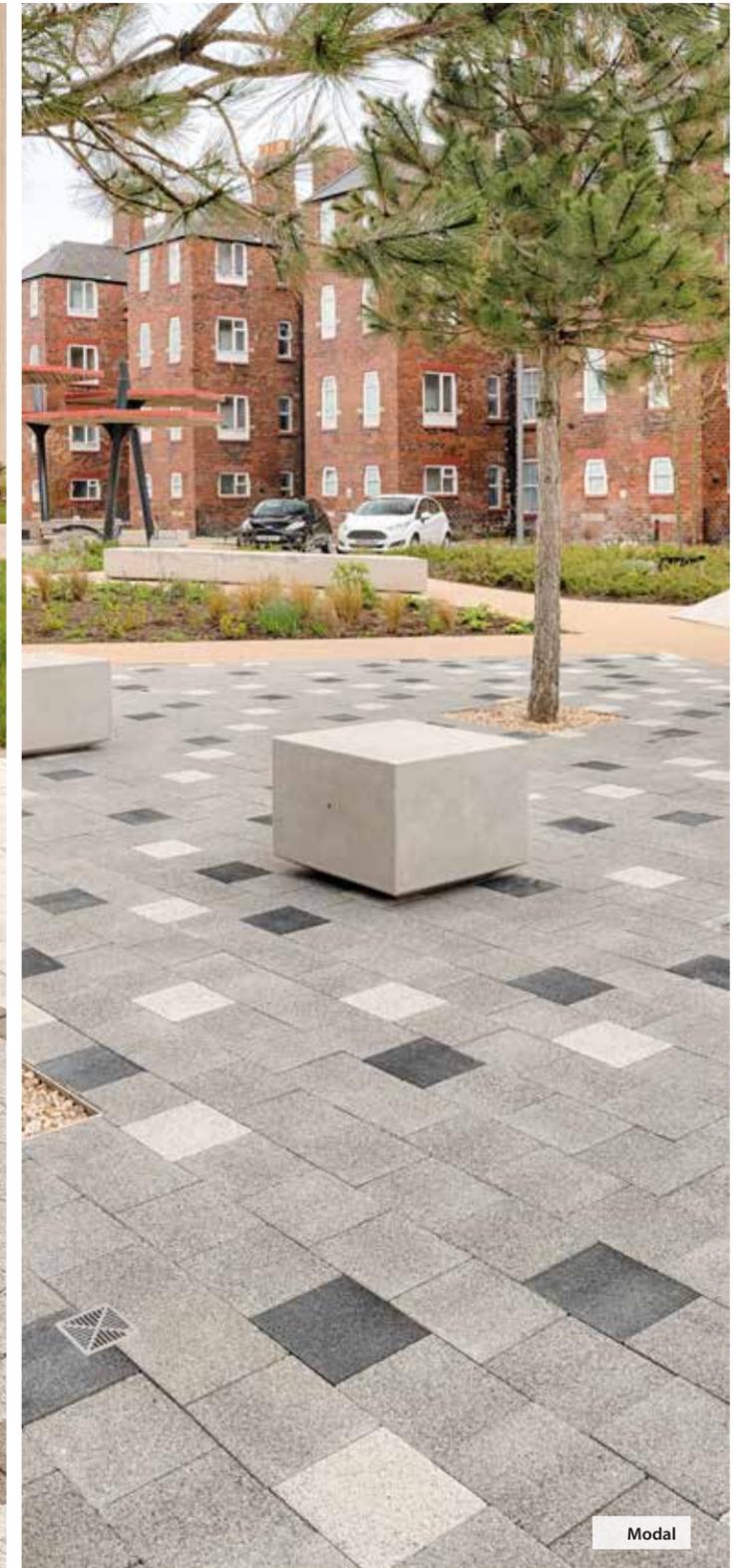
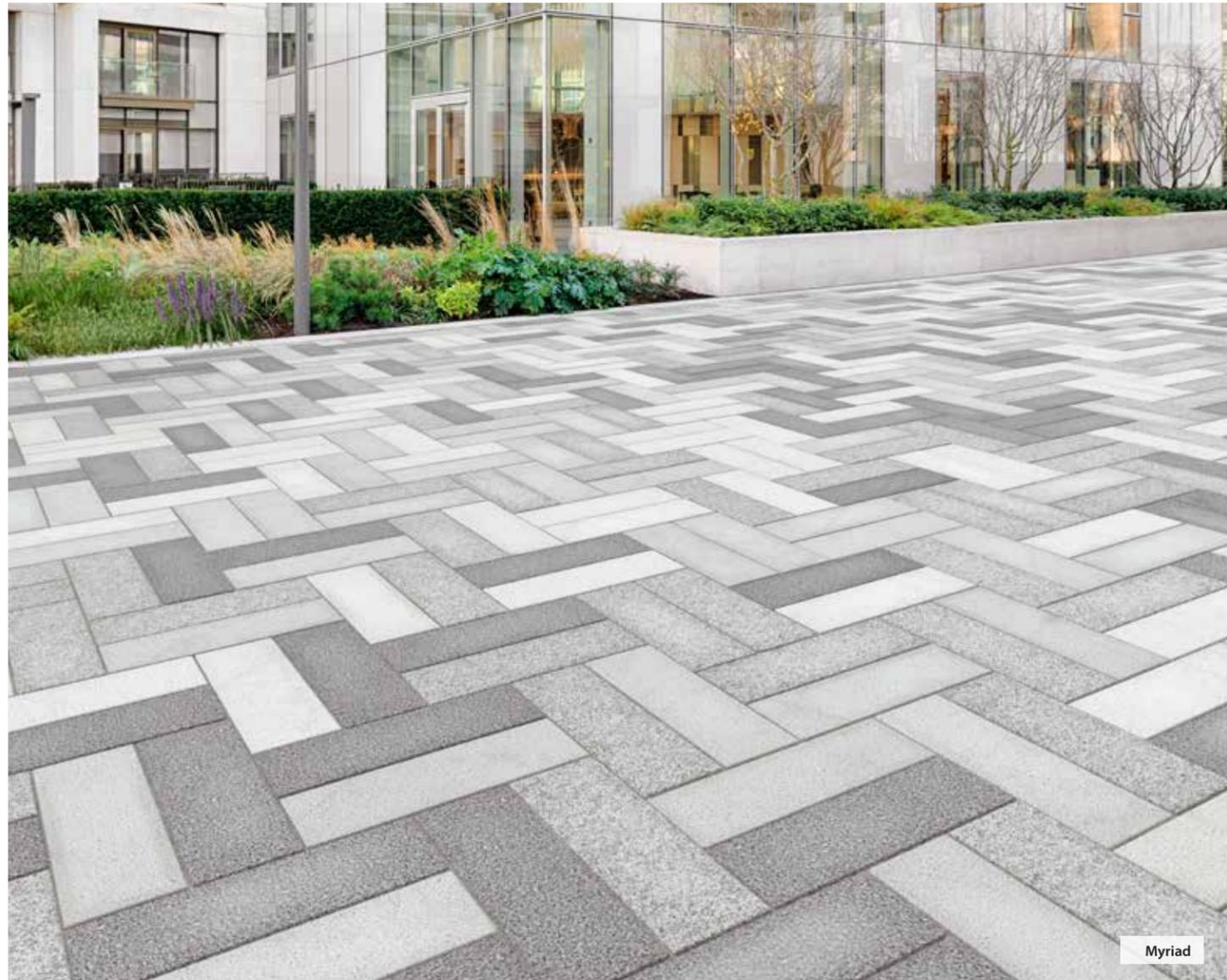


Conservation Priora

# INSPIRE ME WITH PATTERN

Patterns can visually break up large expanses of paving, adding interest and playfulness to flat surfaces. The juxtaposition of soft, flowing curves and straight regimented lines can lend personality to otherwise bland areas.

Banding, lines and shapes can also subtly denote different uses, eliminating the need to clutter spaces with distracting signage.



# Liverpool Exhibition Centre

Client:  
Liverpool Exhibition Centre

Designer:  
Camlin Lonsdale

Contractor:  
ISG

Products:  
Paving: Conservation Textured (Silver Grey & Charcoal), Modal (Light Granite, Anthracite Granite & Mid Grey Granite).  
Ancillaries: Conservation Textured Step & Conservation Kerb (Silver Grey & Charcoal)

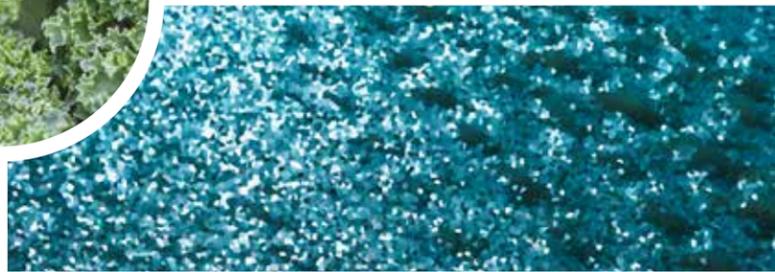
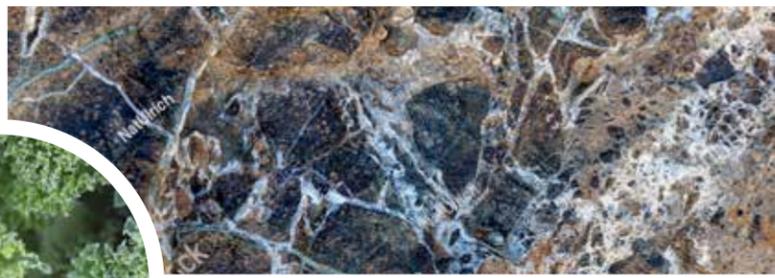
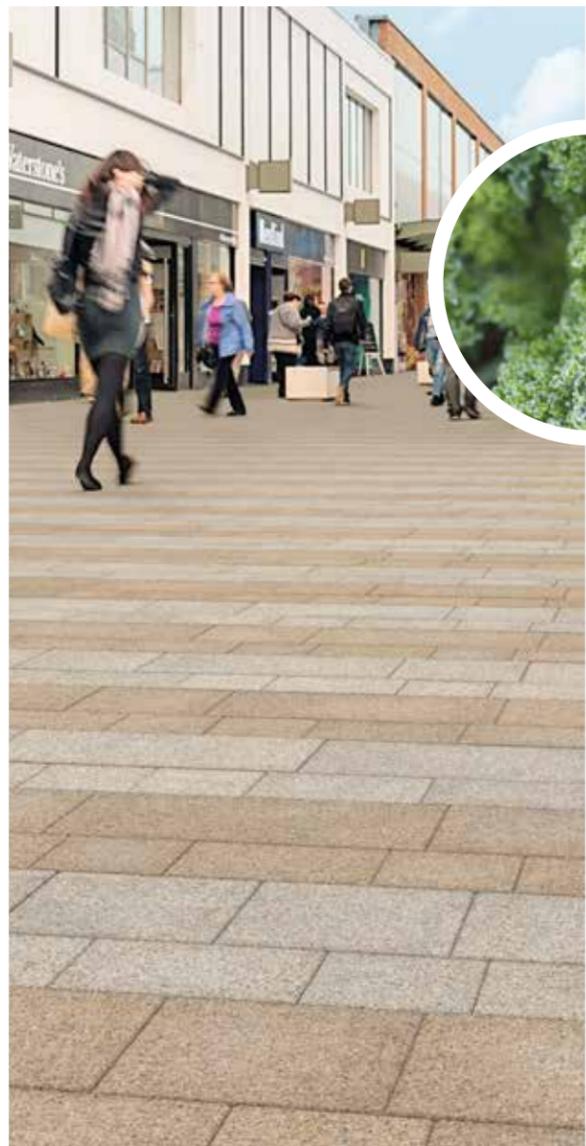
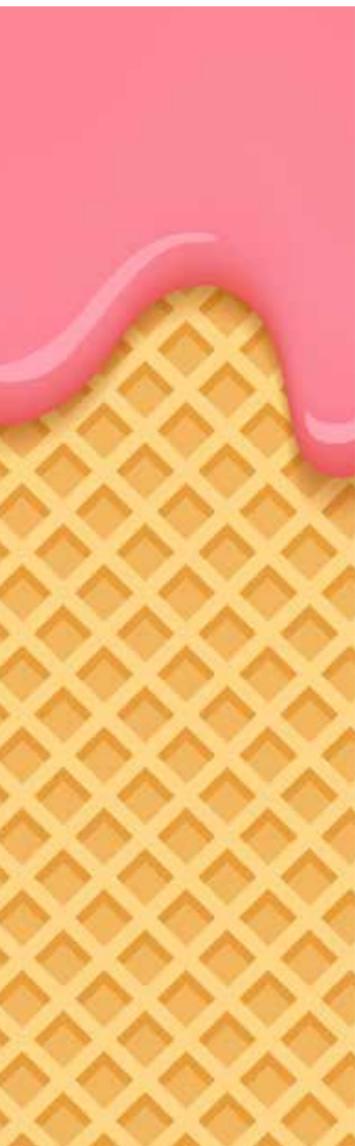
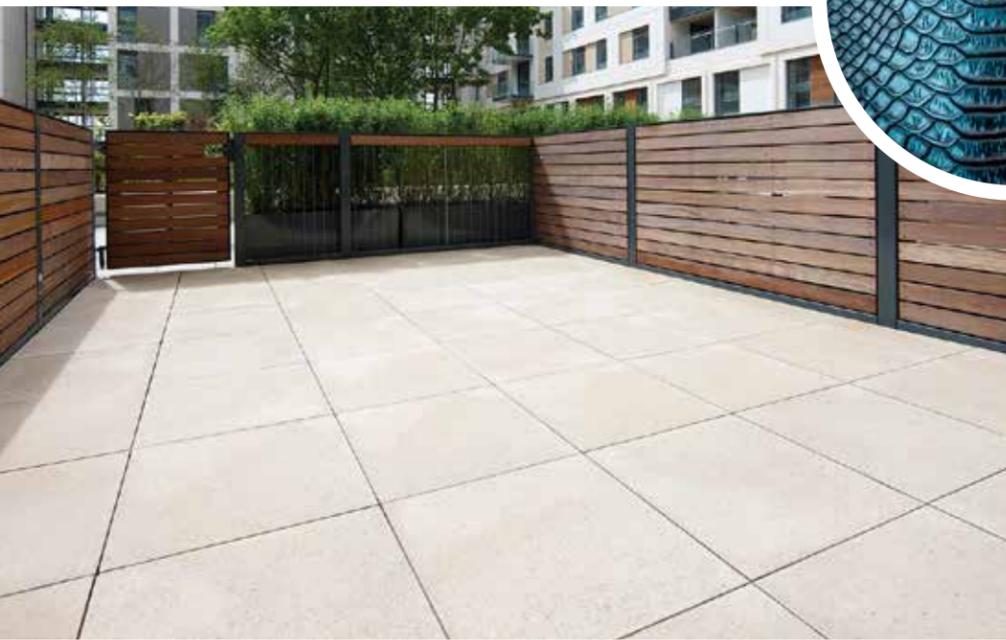
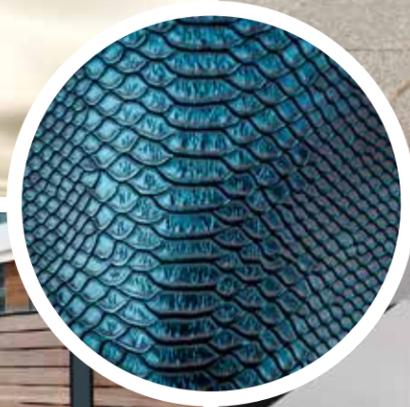


## Liverpool Exhibition Centre Pattern Case Study

A major refurbishment of Liverpool Exhibition Centre has more than doubled its size, and made it the only purpose-built arena, convention and exhibition centre in Europe.

Architects Denton Corker have created a striking off-set, rectangular 'tube' design for the new concrete frame hotel, looking out over the stunning vista across the River Mersey and the city's UNESCO World Heritage site.

In order to complement the striking architecture, Marshalls was approached to supply new Modal paving, part of the internationally recognised La Linia range. The broad range of tones and plan sizes meant eye-catching patterns and blends could be employed around the contemporary new building to great effect. A range of other Marshalls products such as Conservation paving, kerbs and steps were also used to complement the areas around the scheme.



# INSPIRE ME WITH **TEXTURE**

DEFINITION: The feel or shape of a surface or substance; the smoothness, roughness, softness and hardness of objects applied here to the built environment.

# INSPIRE ME WITH TEXTURE

Texture in landscaping can be employed for its functional characteristics, providing clear visual demarcation and differentiating one vertical or horizontal area from another to highlight and contrast.

Texture can be implemented purely as a decorative device to supplement or accentuate colours, or can be

a visually pleasing substitute for colour in given areas, it creates a tactile as well as visual response to a surface. It may be random or geometrically organised in subtle or striking patterns.



Flamed - Drivesys®, Pennant Blue



Coarse Textured - Myriad, Midnight



Mid Textured - Conservation, Silver Grey



Lightly Textured - Modal, Oatmeal



Riven - Mistral, Charcoal



Textured Riven - Organa, Linen



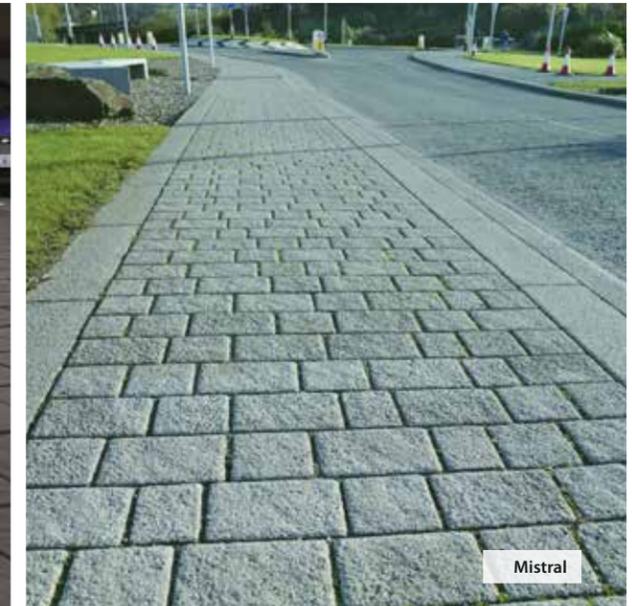
Skimmed - Celestia, Nebula



Smooth - Modal, Indian Granite



Drivesys®



Mistral



Conservation



Rivero

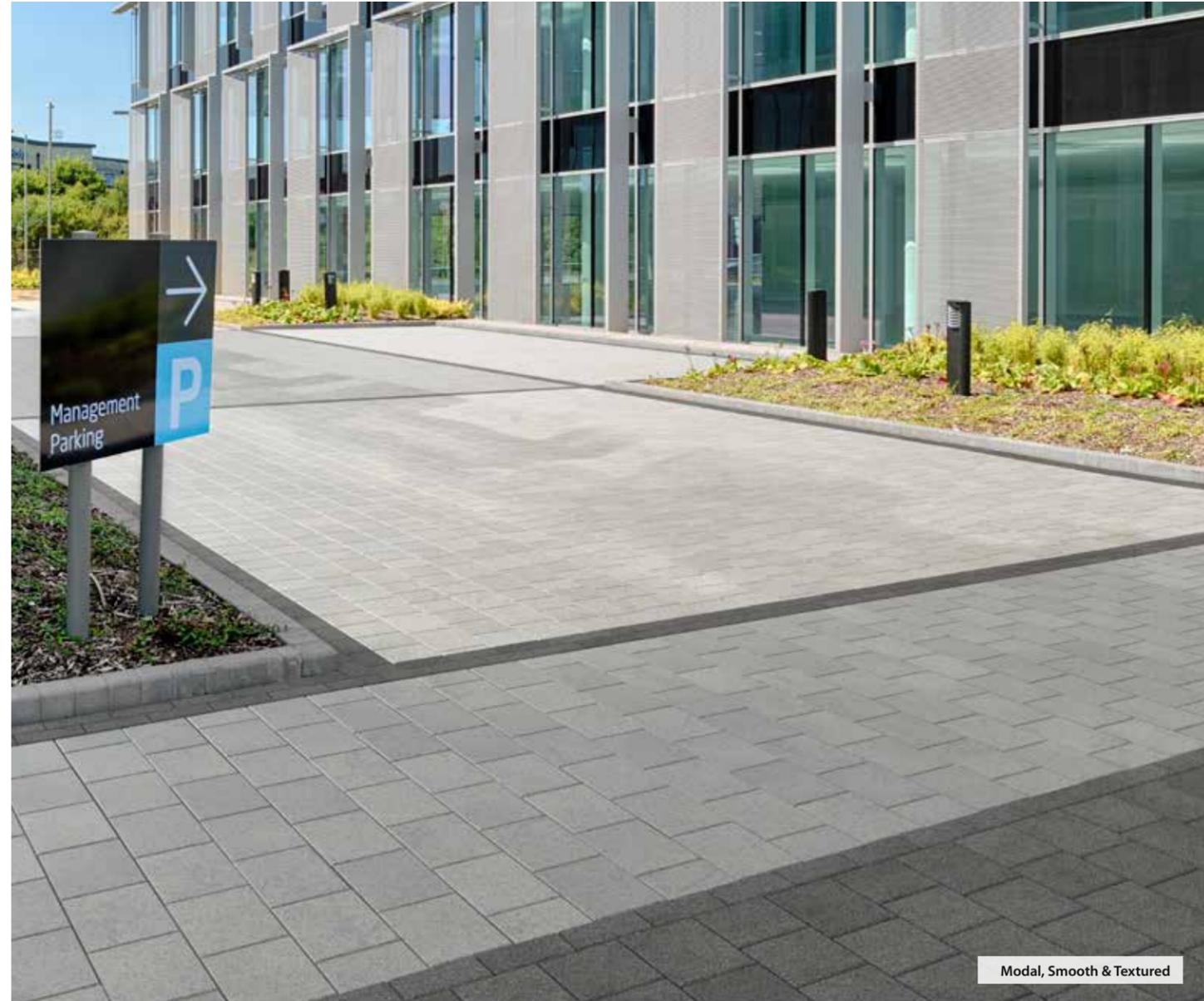


Organa

# INSPIRE ME WITH TEXTURE

Mixing coarse, smooth and polished textures across a single scheme can not only create striking visual differences, but also help to denote different uses and even warn of potential hazards.

Texture can create subtle banding across schemes in which colour isn't a design option, provoking a uniquely tactile response.



# De Montfort University

Client:  
De Montfort University

Designer:  
Plincke Manchester

Contractor:  
Balfour Beatty

Products:  
Paving: Mistral Piora (Silver Grey), Mistral (Silver Grey & Charcoal), Modal (Indian Granite & Anthracite Granite), Conservation (Silver Grey), Proteus Flamed Granite.

Ancillaries:  
Conservation Kerb, Conservation Steps



## De Montfort University Texture Case Study

The new Vijay Patel building is the bold centrepiece of DMU's £136million campus transformation project. The tower houses all of the university's art and design faculties under one roof – so it's only fitting that the surrounding landscaping should reflect the creative nature of the students using it.

Designer Plincke Manchester blended a range of Marshalls paving products to create different textures within the landscape, which help to delineate multi-use spaces. Different sizes of Modal paving have been juxtaposed, with long flag units used to complement the lines of the central tower and smaller Mistral setts to designate walkways. Mistral Piora has been used to manage surface water responsibly and green planted spaces provide space for students to relax outside when weather allows.

# INTRODUCTION TO RANGES

As you'd expect from the UK's market leading landscaping manufacturer, Marshalls' extensive range of concrete paving provides you with the choice and flexibility you need to create the shared spaces of your imagination.

We understand that selecting the right combination of colour, blend, size, pattern and texture is imperative to the success of your scheme; our paving offer gives you all of the tools you need.

Where indicated we also offer complementary products such as steps and kerbs to ensure that your chosen visual theme is carried through every element of the finished project. Additionally, the majority of our paving ranges are available in permeable Piora versions too, ensuring that you don't have to compromise your design aspirations to satisfy Sustainable Drainage Solutions requirements.

The below table outlines the key features of each of our ranges which you will find on each of our product pages.

KEY								
Maximum Loading Category	Permeable Block Available	Matching Kerb Available	Matching Step Available	Pedestals for Roofdecks & Balconies	BIM Model Available	SketchUp Model Available	Carbon Footprint Value	Product Price Range



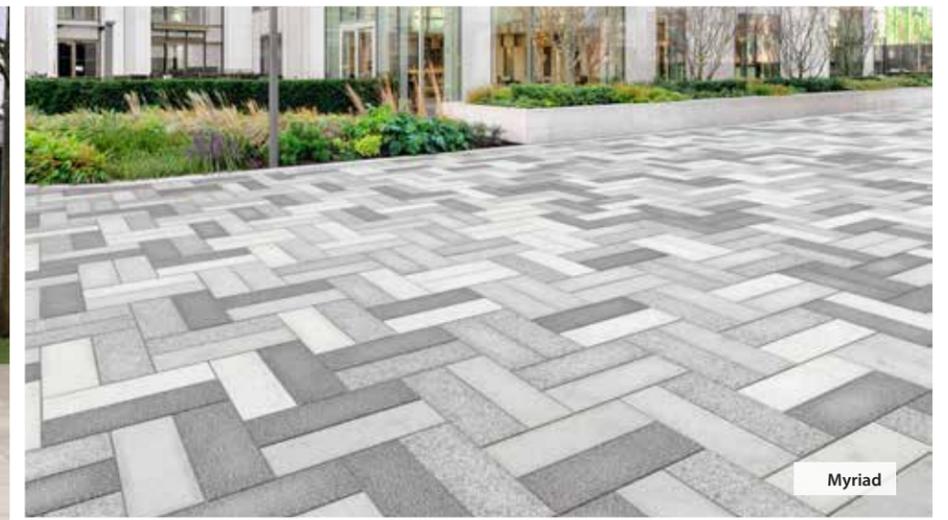
Saxon, Steps



Coppice



Organa



Myriad



Modal



Modal & Conservation

# MODAL

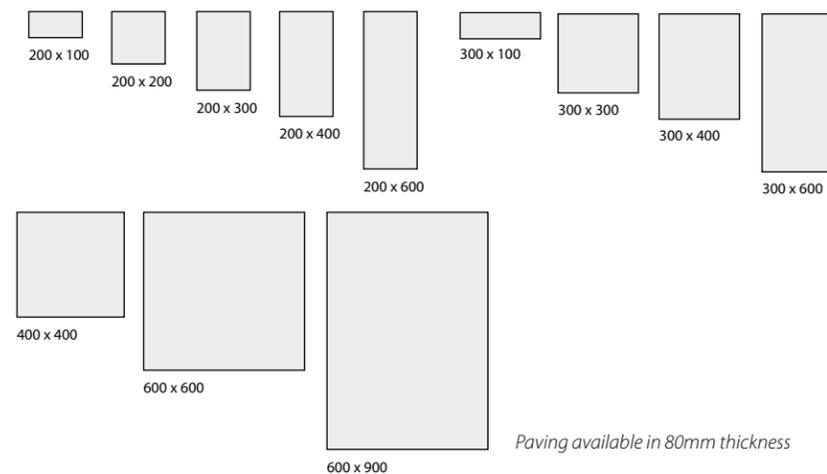
The new flagship Modal range incorporates the internationally popular La Linia into a truly versatile paving collection. Available in both smooth and textured finishes, the high quality aggregates in the surface catch the light to lend a contemporary urban look to modern landscapes.

Combining any permutation of the 10 colours and 12 sizes available in the Modal range allows for truly creative laying options. Modal is ideal for pedestrianised areas, but smaller paving units are also suitable for HGV trafficking.



Modal, Light Cream Granite & Oatmeal Granite

### Plan Sizes



### Additional Information



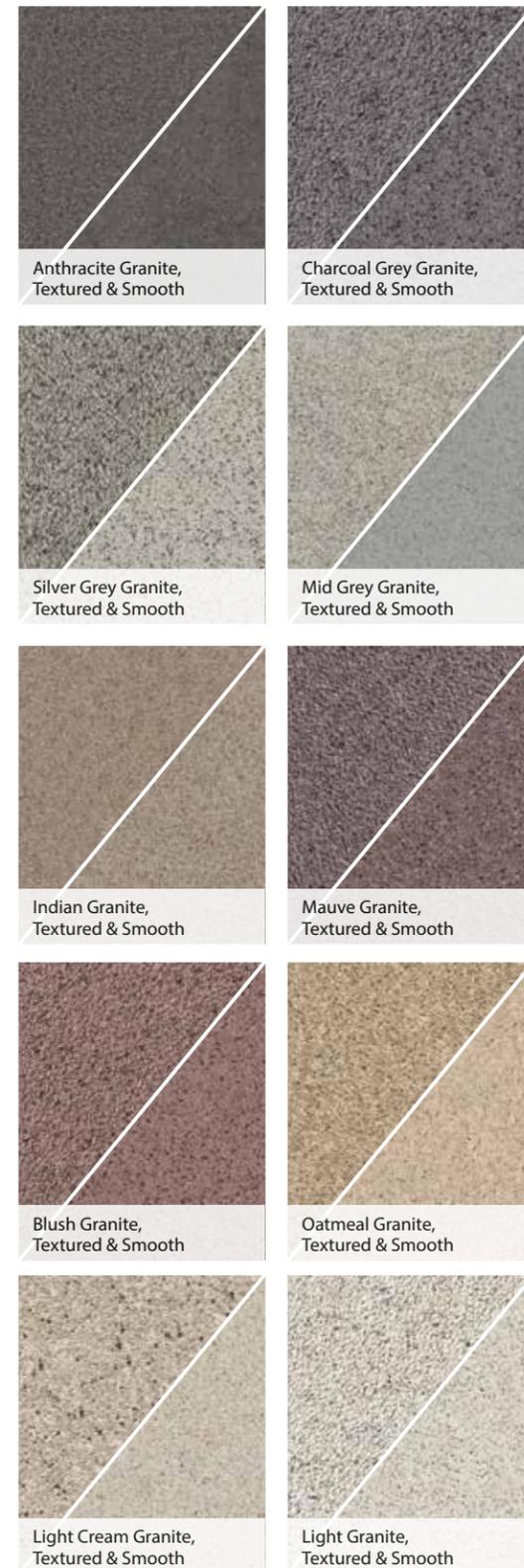
For more information on Marshalls loading categories please see page 83.

Conservation kerb and step available to complement the paving, for more information please see pages 76-79.

Modal Smooth is available in selected sizes.



Modal, Multi-coloured Mix



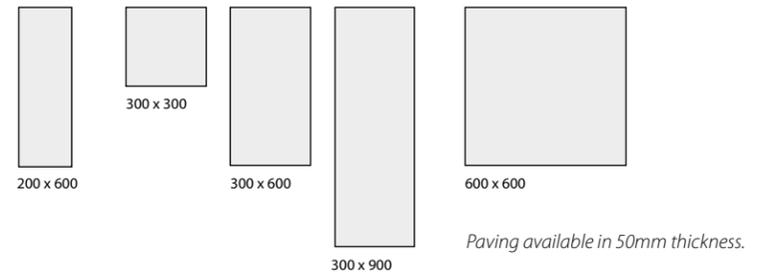


Celestia Skimmed, Nebula, Grava & Luna

# CELESTIA

Celestia is a unique linear paving range designed to achieve maximum visual impact. The distinctive, rich colours provided by the surface aggregates combined with elongated, linear proportions create a distinctive contemporary style, ideal for complementing the form and structure of modern urban developments.

## Plan Sizes



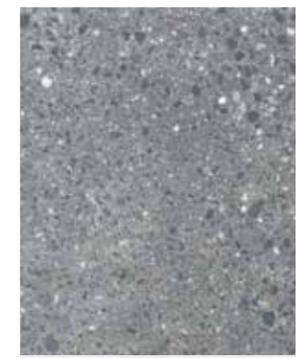
## Additional Information

-  CAT 1
-  PEDESTALS
-  BIM
-  SketchUp
-  FROM 25 kg CO<sub>2</sub> per m<sup>2</sup>
-  £££ PRICE RANGE

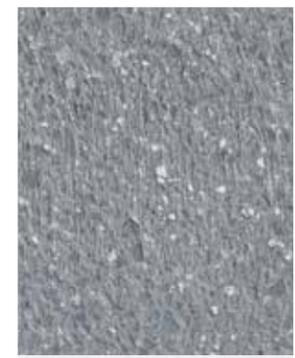
For more information on Marshalls loading categories please see page 83.  
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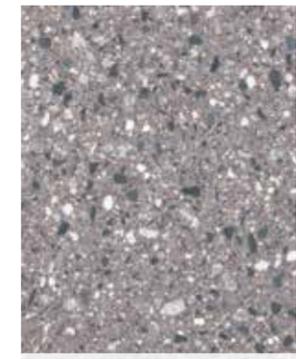
Celestia Smooth, Nebula



Luna, Smooth



Luna, Skimmed



Lyra, Smooth



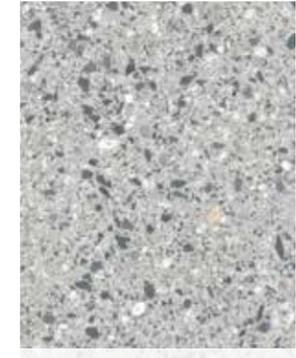
Lyra, Skimmed



Grava, Smooth



Grava, Skimmed



Nebula, Smooth

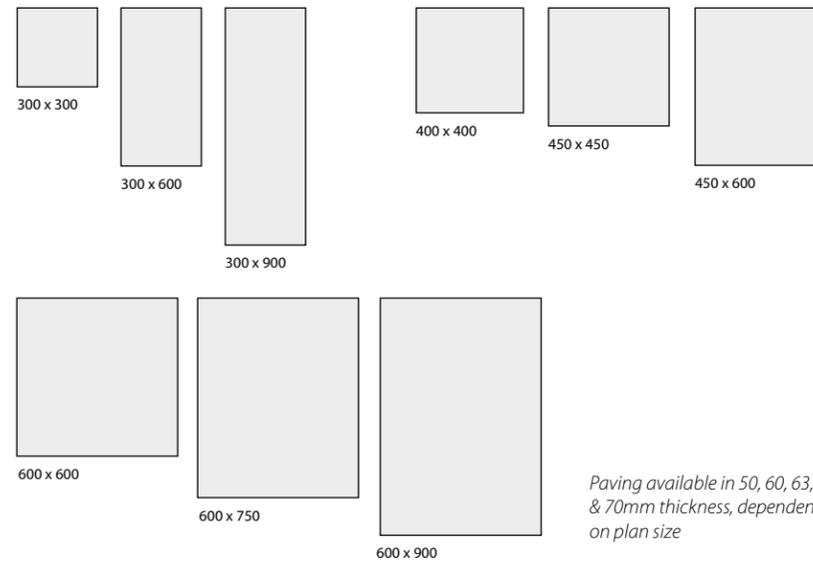


Nebula, Skimmed

# CONSERVATION

Bring urban developments to life by introducing a contemporary edge. Using a unique blend and lavish mix of natural granite aggregates, Conservation paving is available in three diverse finishes and a mix of subtle colours. Matching kerb and step units are also available to create an integrated modern landscape scheme.

## Plan Sizes



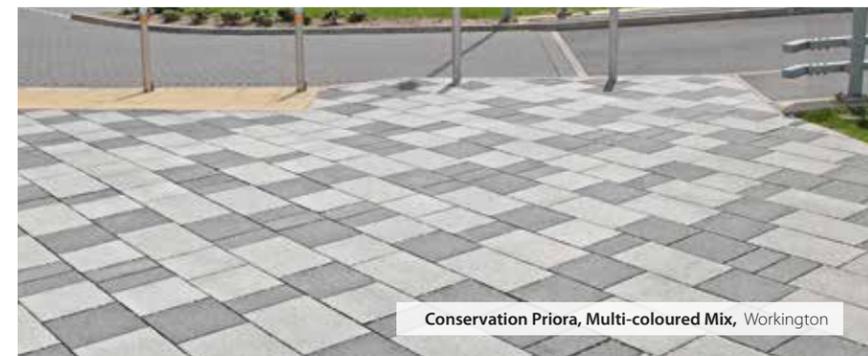
*Paving available in 50, 60, 63, 65 & 70mm thickness, dependent on plan size*

## Additional Information



For more information on Marshalls loading categories please see page 83.

Fibre Reinforced Paving available in selected sizes.



Charcoal, Smooth



Silver Grey, Smooth



Charcoal, Skimmed



Silver Grey, Skimmed



Charcoal, Textured



Silver Grey, Textured



Heather Grey, Smooth



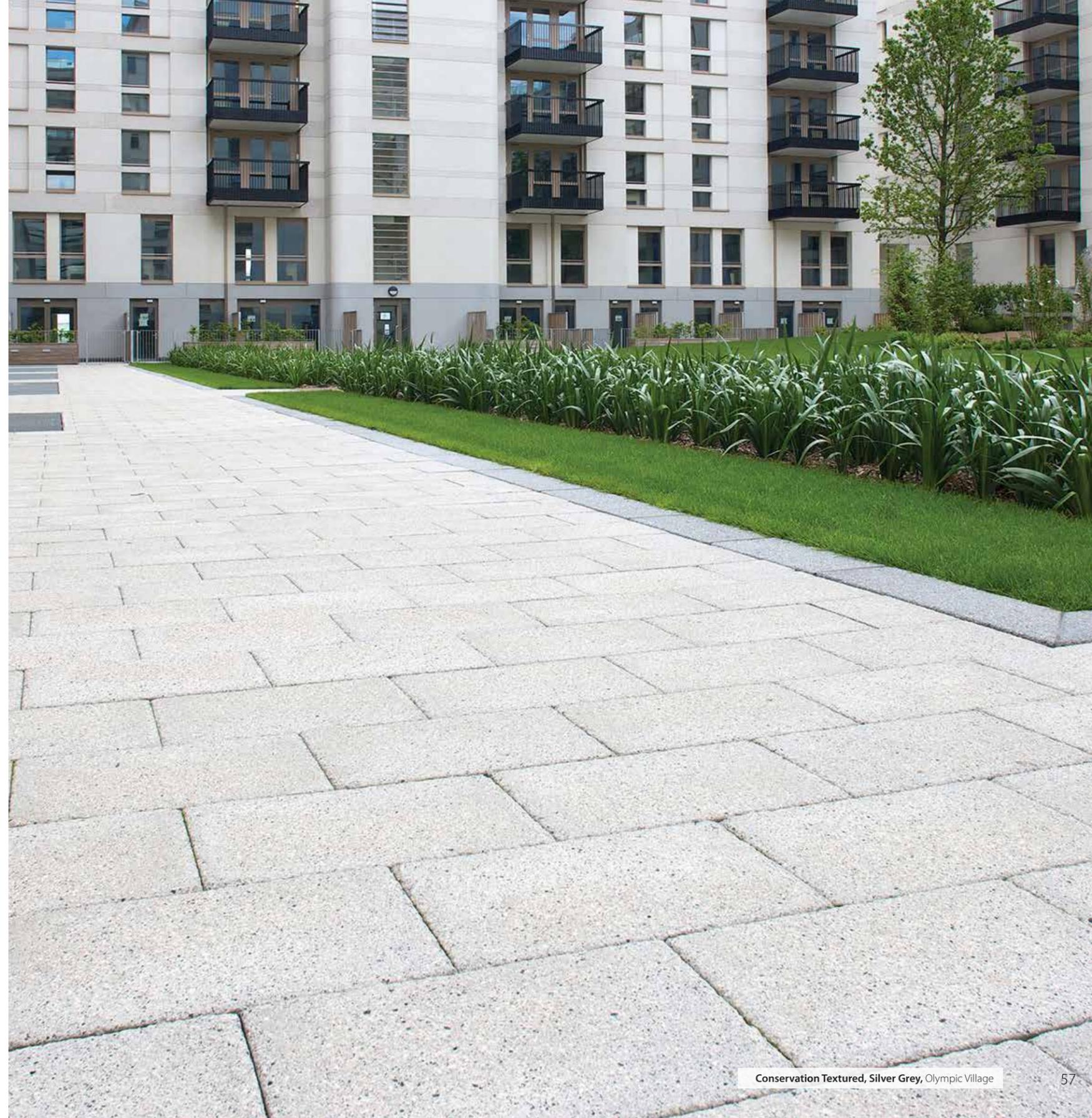
Harvest Buff, Textured



Heather Grey, Skimmed



Heather Grey, Textured



Conservation Textured, Silver Grey, Olympic Village



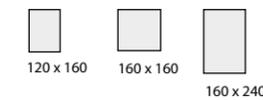
Mistral, Silver Grey, Heartlands, Cornwall

# MISTRAL

A multi-size range of textured granite aggregate setts. The exposed aggregate in the surface complements sleek, modern developments and adds a touch of class to contemporary public spaces. Suitable for any loading requirement and already employed in a vast range of settings including civil, residential and retail.



## Plan Sizes

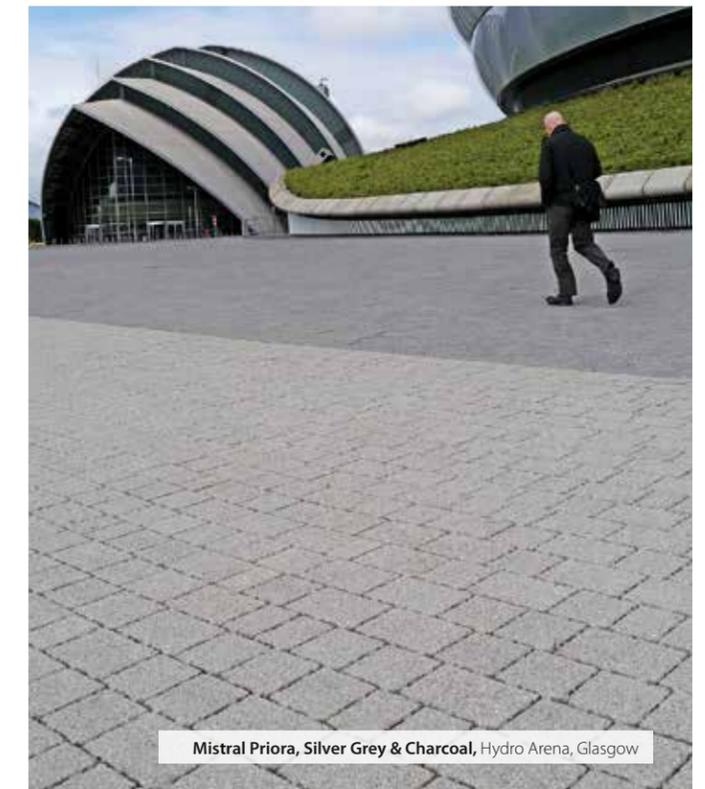


Paving available in 60mm & 80mm thickness, dependent on plan size

## Additional Information



For more information on Marshall's loading categories please see page 83.  
Conservation kerb and step available to complement the paving, for more information please see pages 76-79.



Mistral Priora, Silver Grey & Charcoal, Hydro Arena, Glasgow

# PERFECTA

A smooth ground concrete paving range featuring hard Yorkstone aggregates to emulate natural stone. Perfecta is a popular, cost-effective alternative to natural Yorkstone, offering similar colour tones whilst providing excellent non-slip properties in both wet and dry conditions. Perfecta is ideal for a range of landscape schemes, from public realm to residential projects.



Buff

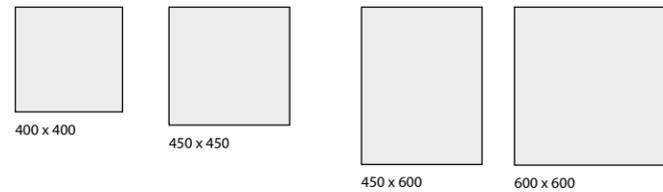


Natural



Perfecta, Buff, Manchester Piccadilly Train Station

## Plan Sizes



Paving available in 50, 63, 65 & 70mm thickness, dependent on plan size

## Additional Information



For more information on Marshalls loading categories please see page 83.

Saxon kerb and step available to complement the paving, for more information please see pages 76-79.

Fibre Reinforced Paving available in selected sizes.



Perfecta, Natural, Amesbury

# SAXON

A hugely popular textured paving range designed to provide an attractive, cost effective and hardwearing surface which will blend seamlessly into any number of landscape projects. With an extensive range of thicknesses and sizes available Saxon is suitable for any application.

Matching Saxon kerbs and steps are available to add definition and refine the finished look of a project.



Charcoal



Buff

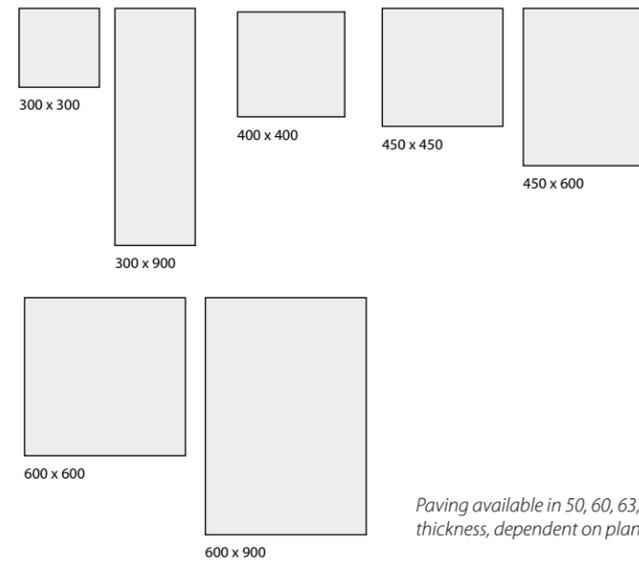


Natural



Saxon, Buff, Bradford

## Plan Sizes



Paving available in 50, 60, 63, 65 & 70mm thickness, dependent on plan size

## Additional Information



For more information on Marshalls loading categories please see page 83.

Fibre Reinforced Paving available in selected sizes.



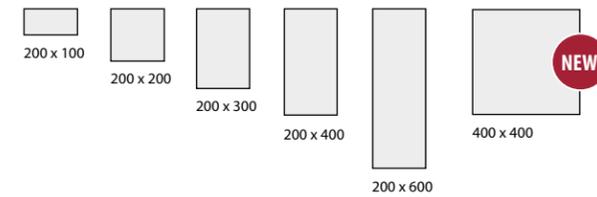
# MYRIAD

A creative paving option which affords the designer freedom in creating eye-catching, standout urban landscapes. Plan sizes can be mixed and matched or used individually to create a vast array of laying patterns, which are further enhanced by the complementary colourways. Myriad is the perfect choice for multi-functional spaces within demanding urban landscapes.



Myriad, Multi-coloured Mix

## Plan Sizes

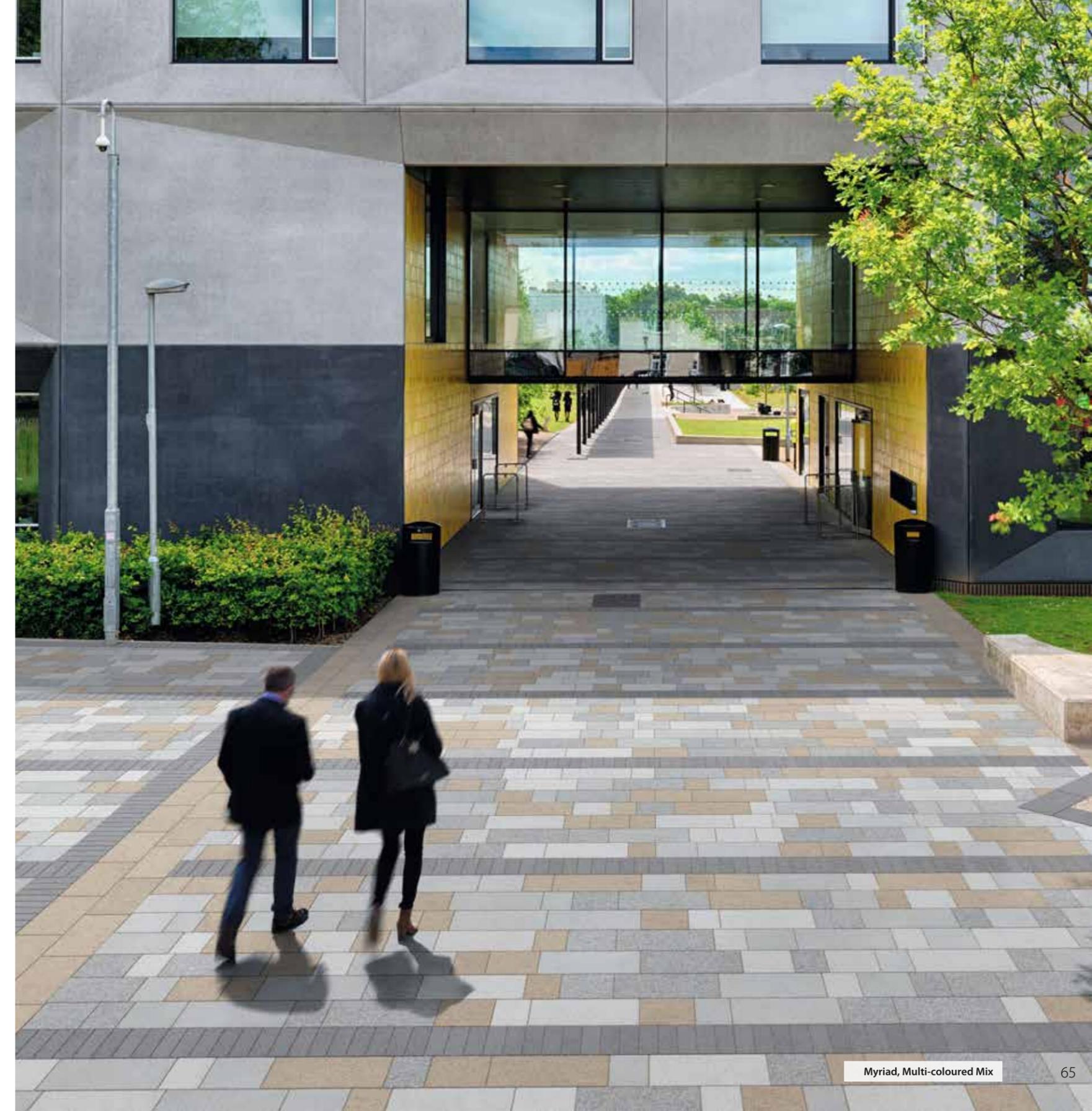


Paving available in 80mm thickness.

## Additional Information



For more information on Marshalls loading categories please see page 83.  
Conservation kerb and step available to complement the paving, for more information please see pages 76-79.



Myriad, Multi-coloured Mix



Organa, Linen

# ORGANA & RIVERO

Both ranges come in a subtly textured riven paving finish available in two distinct colour tones; choose from either warm, modern buffs, or cooler contemporary greys. Designed to deliver durable, long-lasting performance alongside classic good looks.

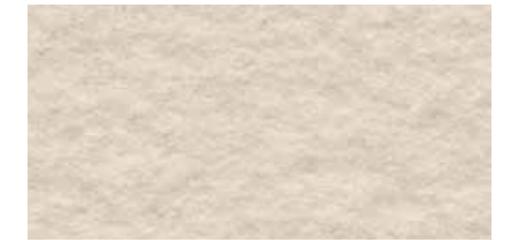
Available in two modular plan sizes and two depths making both ranges available for pedestrian and trafficked areas.



Organa, Hessian



Organa, Linen



Organa, Cotton



Rivero, Dark Pewter



Rivero, Cool Steel



Rivero, Urban Silver

## Plan Sizes



450 x 450



600 x 600

Paving available in 50mm & 70mm thickness, dependent on plan size

## Additional Information



Rivero, Multi-coloured Mix

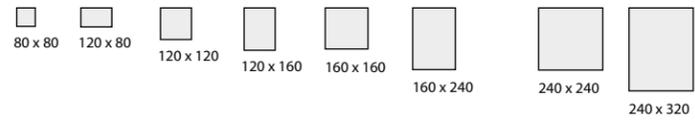
For more information on Marshalls loading categories please see page 83.

Saxon kerb and step available to complement the paving, for more information please see pages 76-79.

# TEGULA

The UK's original multi-size, lightly weathered paving system. A variety of laying patterns can be achieved using different combinations of block sizes. Tegula is suitable for any loading and is ideal for use in rustic, rural developments.

## Plan Sizes



Paving available in 60mm & 80mm thickness, dependent on plan size

## Additional Information



For more information on Marshalls loading categories please see page 83.



Tegula Priora, Harvest, Kent



Pennant Grey



Cobbles, Pennant Grey



Traditional



Cobbles, Traditional



Harvest



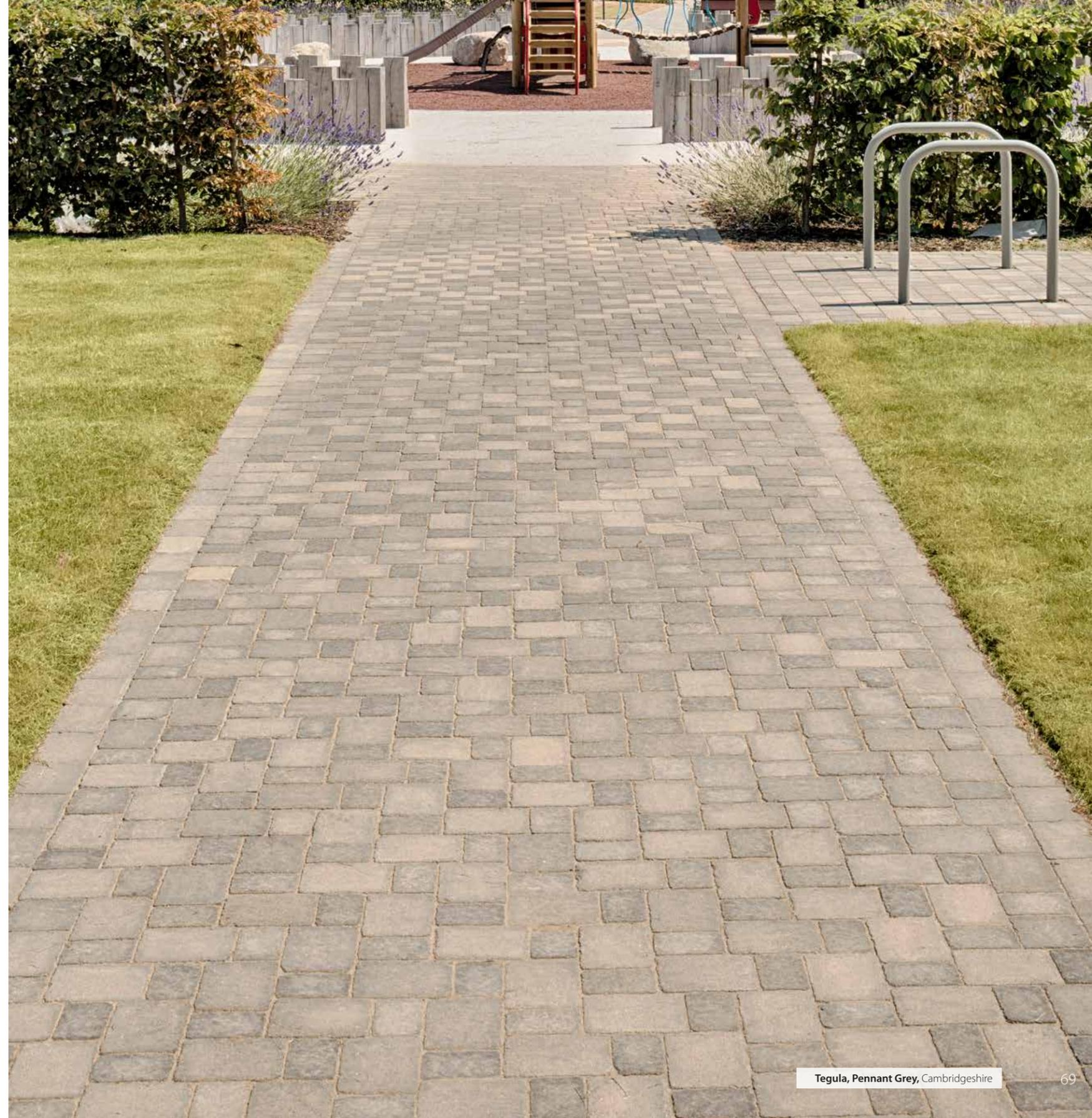
Cobbles, Harvest



Burnt Ochre



Red/Charcoal Multi



Tegula, Pennant Grey, Cambridgeshire

# COPPICE

This cost effective, easy to design range creates the illusion of a multi-size random installation using just a single size 240x160 unit. Each of the popular blends contain 3 colours within the same pack; blocks are laid randomly to create the finished look. Already popular with both designers and installers, this unique and distinctive look will suit both contemporary and rural landscapes.



Coppice, Pennant Blend



Pennant Blend



Cedar Blend



Oak Blend

## Plan Sizes



240 x 160

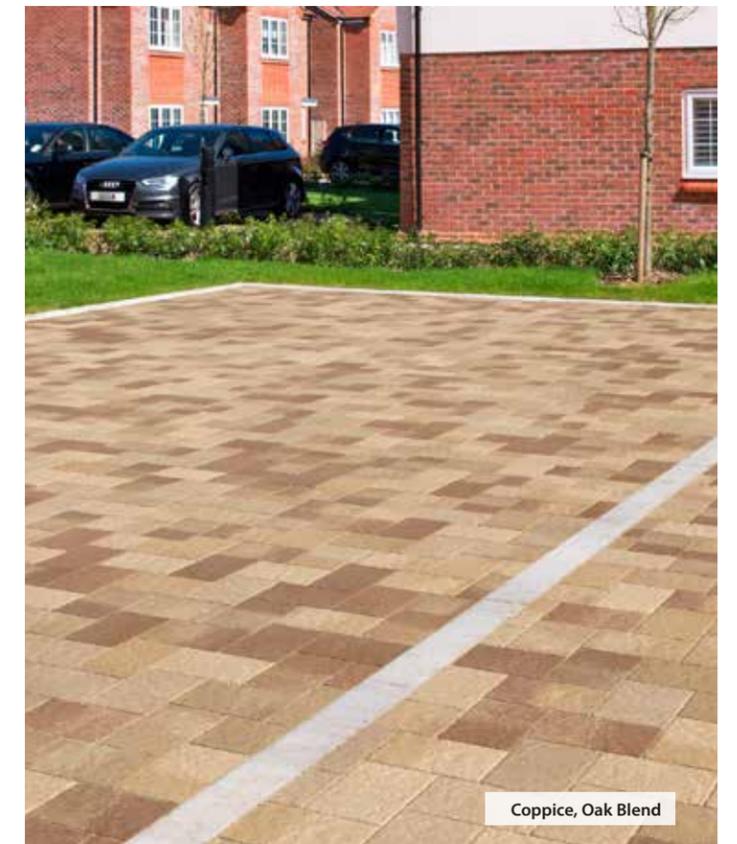
Paving available in 80mm thickness.

## Additional Information



For more info on Marshalls loading categories please see page 83.

Tegula kerb and step available to complement the paving, for more information please see pages 76-79.



Coppice, Oak Blend

# DRIVESYS®

Marshalls Drivesys Flamed Stone creates a stunning natural stone aesthetic for a fraction of the price. Casted from moulds of real stone setts to ensure an authentic finish, this striking aesthetic is coupled with the consistent dimensions of concrete block paving to allow for quick and easy installation.

Crucially, the patented system can be installed on a flexible sand bed (just like standard block paving) reducing the cost by at least a third compared to a fully installed natural stone sett system.

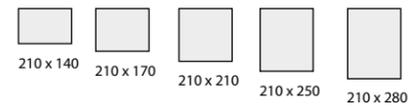


Drivesys®, Pennant Blue



Drivesys® Flamed Stone System

### Plan Sizes



All sizes come in a mixed project pack.

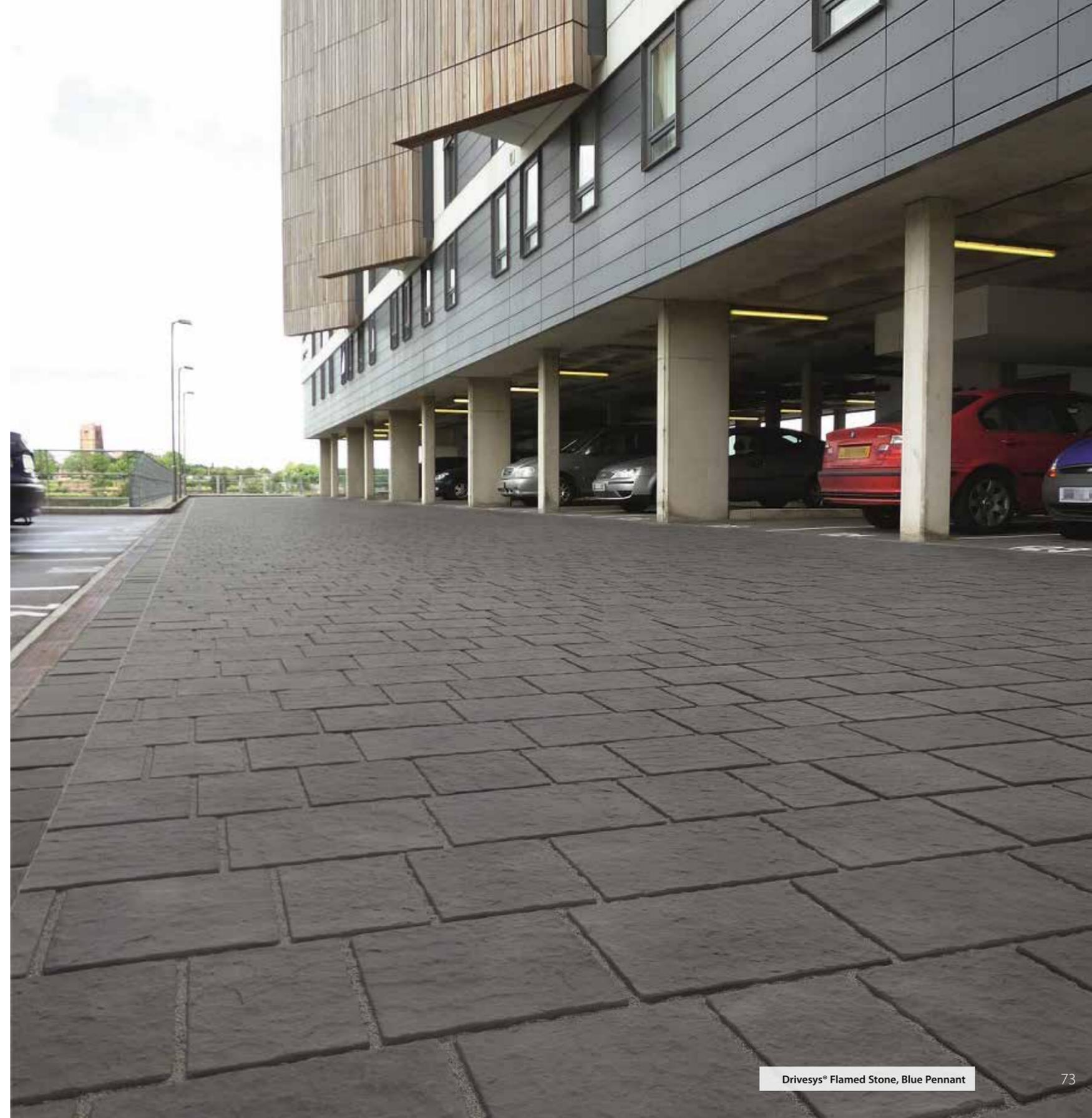
### Additional Information



Drivesys® Flamed Stone comes in a mixed size random course pack and is supplied with the correct quantity of Jointing Compound.

For more information on Marshalls loading categories please see page 83.

Conservation kerb and step available to complement the paving, for more information please see pages 76-79.



# PEDESTALS



## For Roofdecks & Balconies

To make paving balconies and roof decks easy for our customers, Marshalls has launched a suite of pedestals and accessories to support our range of concrete, Vitrified and natural stone paving products.

These support posts create a structurally robust “floating floor” system which can be easily lifted for access or relaid at the end of the pavement’s life. We have worked with experienced suppliers, engineers and users of these systems to arrive at simple, cost effective installation designs which will keep paved surfaces looking good for years to come.

All Marshalls pedestal products and associated systems have been thoroughly tested.

For more information on Marshalls pedestals range please visit, [marshalls.co.uk/commercial/pedestals](https://marshalls.co.uk/commercial/pedestals)



Self-Levelling



Fixed Head



Support Pad



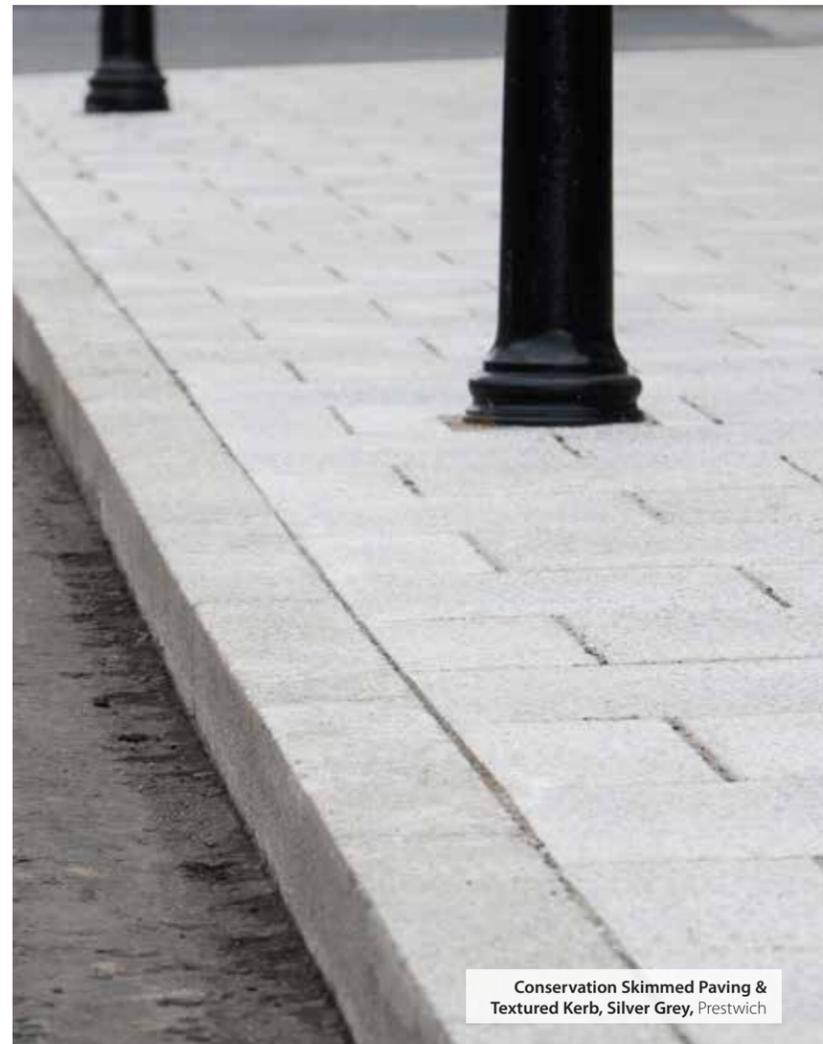
# KERBS



Every kerb has a function to fulfil - but they needn't be blots on your landscape. We offer a wide range of aesthetic kerbs to enable a high-quality finish full of character without compromising on durability.

As well as looking great, they're designed to deal with heavy impact and also provide a safety barrier for pedestrians and vehicles.

For further information on Marshalls kerb offer please visit [marshalls.co.uk/commercial/kerb](http://marshalls.co.uk/commercial/kerb)



Conservation Skimmed Paving & Textured Kerb, Silver Grey, Prestwich



Conservation, Charcoal, Textured



Conservation, Silver Grey, Textured



Conservation, Harvest Buff, Textured



Saxon, Natural



Saxon, Buff



Tegula, Pennant Grey



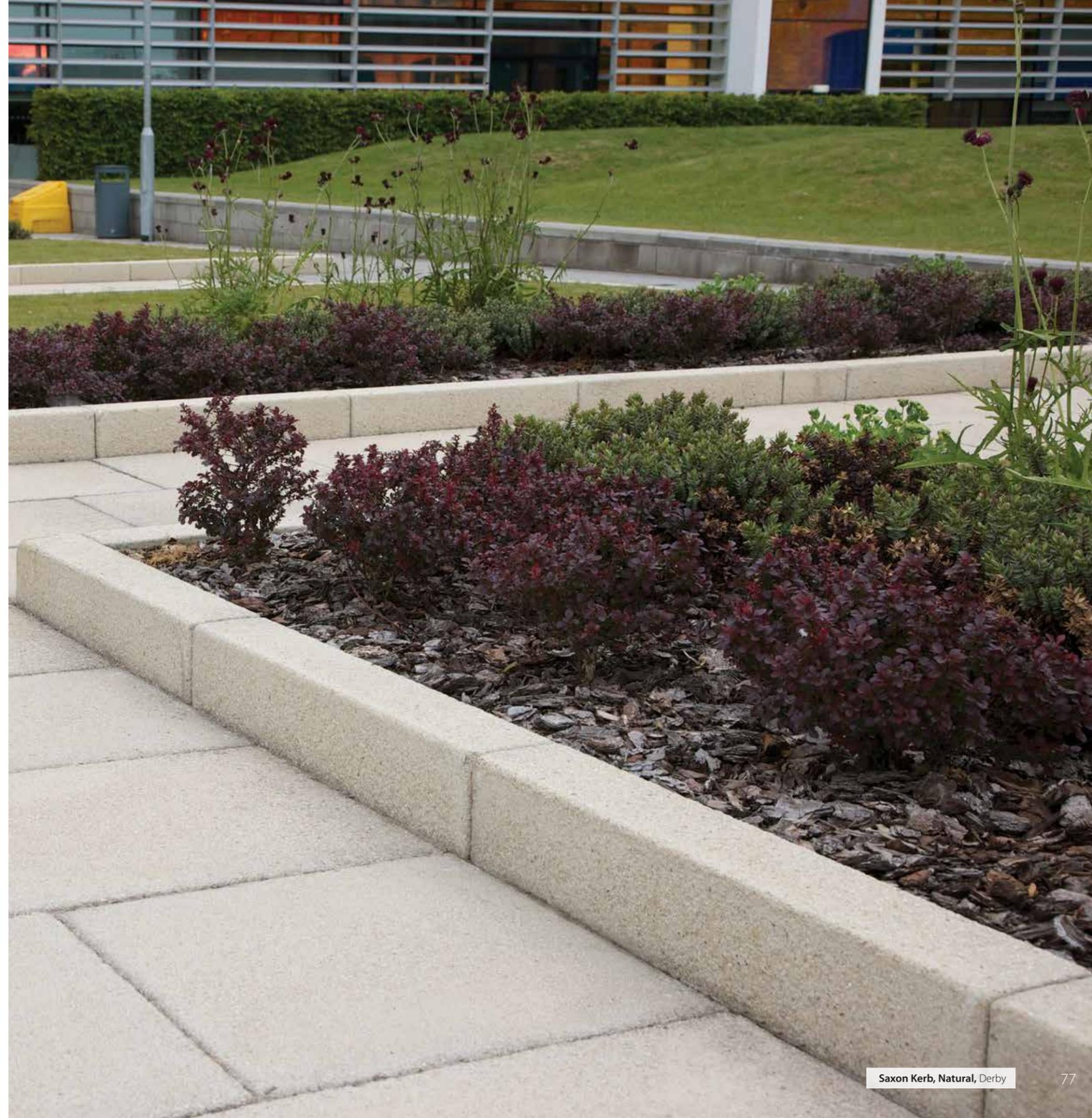
Tegula, Traditional



Tegula, Red/Charcoal Multi



Tegula, Harvest



Saxon Kerb, Natural, Derby



Saxon Buff Steps, CEMAST College, Fareham



Conservation,  
Charcoal, Smooth



Conservation,  
Silver Grey, Smooth



Conservation,  
Silver Grey, Textured



Perfecta, Natural, Smooth



Perfecta, Buff, Smooth



Saxon, Natural, Smooth



Saxon, Buff, Textured

# STEPS

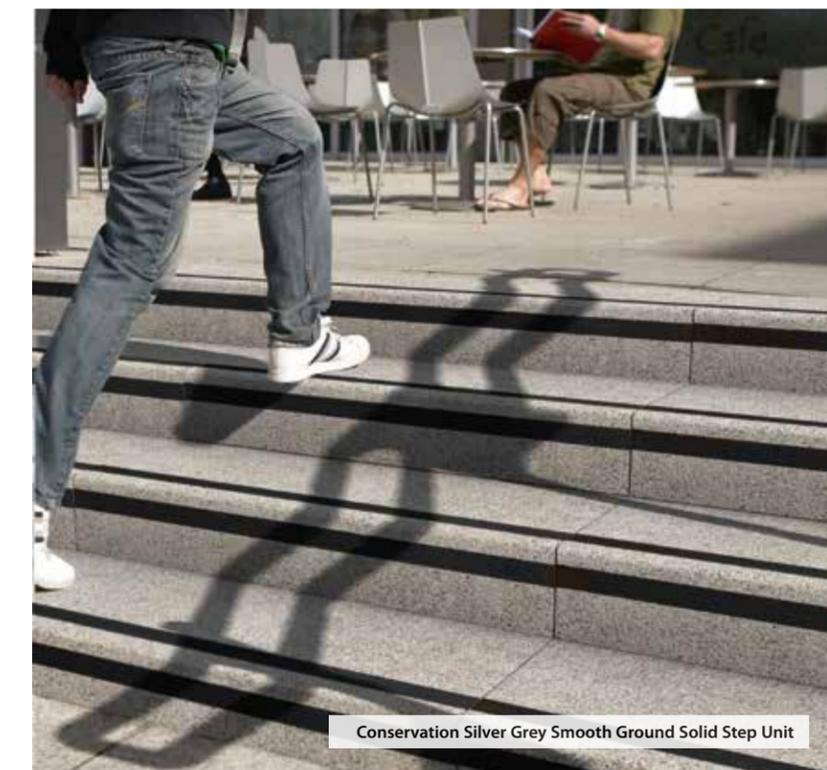


Marshalls' highly experienced and design-conscious specialist team will meet all your requirements for full step solutions – and can even do so with an individually tailored approach should you require it.

Whatever the size of your project, our step solutions are quick and easy to install and available across our most popular paving ranges, and both concrete and natural stone steps use contrasting materials to highlight step presence.

Whether your project requires single, solid concrete step units or concrete paver step treads and risers, they're available in a range of finishes and sizes as standard. However, should you require bespoke sizes or radial and splay steps, we're confident we can provide this for additional requirements.

For further information on Marshalls steps offer service please visit [marshalls.co.uk/commercial/paving/products/steps](https://marshalls.co.uk/commercial/paving/products/steps)



Conservation Silver Grey Smooth Ground Solid Step Unit

# SKETCHUP WAREHOUSE



The SketchUp model is an ideal tool for clients in the early stages of the design process for paving specification. The model allows the client to visualise the design concepts easier and brings the paving to life with the 3D capabilities available.

The main advantage of SketchUp Warehouse is that it allows you to share ideas with clients and colleagues to reach a common goal without sharing information. Marshalls 3D models are available for free download at SketchUp warehouse.

For more information please visit [www.3dwarehouse.sketchup.com/by/marshallspc](http://www.3dwarehouse.sketchup.com/by/marshallspc) or contact a member of the Marshalls team on 0345 2030 600



# BIM



**Building Information Modelling (BIM)** is a process used to design, understand and demonstrate the key physical and functional characteristics of a building in a virtual environment.

In a large-scale design and construction scheme, the use of a single data model enables users to work collaboratively and allows project participants to add content to the model which is then immediately accessible to others.

In order to improve collaboration with stakeholders, the BIM process provides the structure to share relevant information.

We have been working with appropriate standards and protocols and are now able to provide high quality 3D objects of our products with rich data linked to match the information that our clients require.

For more information on Marshalls BIM Services, please visit [marshalls.co.uk/commercial/technical-support/bim-library](http://marshalls.co.uk/commercial/technical-support/bim-library)



# PAVING DESIGN TOOL



How a pavement performs is just as important as how it looks. Based on our years of market-leading experience, and in a collaboration with renowned paving engineer Professor John Knapton, Marshalls has gone beyond the British Standard to devise a brand new range of pavement sub-base designs. These will ensure that your projects stay looking good for years to come.

To make the correct sub-base specification as easy as possible, Marshalls has created its own brand new Paving Design Tool. By entering a few site details along with your chosen Marshalls surfacing product, you will be issued with a specific design which can be output as a 2-page pdf document. This document outlines the sub-base build up and the specification of all materials required – including the selected Marshalls surfacing product.



## USING THE TOOL IS SIMPLE:

- 01 Select the type of surface**  
Choose from Paving or Natural Stone
- 02 Select the product you require**  
From the expansive Marshalls range (nb – if using a range of different sized units, select the largest size at this stage)
- 03 Select the maximum loading requirement your site will be subjected to**  
From 11 loading categories
- 04 Indicate the CBR of your site**  
From 1% to >5% - and also whether you wish to use Marshalls MG15 Grid

## Loading Categories

In order for a paved surface to perform structurally, it is vital to consider what kind of loading the area will be subjected to during its lifetime. Modern multi-functional spaces are frequently exposed to a wide variety of loadings ranging from pedestrian foot traffic and bikes right up to fully laden bin wagons and delivery trucks.

Marshalls' new design method now recognises 11 different loading categories, meaning that your design will be even more prescriptive than ever before and is less likely to be over-engineered. Simply select the category which best represents the heaviest loading your project will be subjected to.

Please visit [marshalls.co.uk/pavingdesigntool](https://marshalls.co.uk/pavingdesigntool) to create (or log into) your personal Marshalls Tool Box.



Pedestrian and Domestic Driveways



Cars and Light Vans



Traffic up to 7.5 tonnes



Emergency Large Goods Vehicles only (100 standard axles cumulative)



One Large Goods Vehicle per week (0.015 msa)



Ten Large Goods Vehicles per week (0.15 msa)



100 Large Goods Vehicles per week



1.5 to 4 msa



4 to 8 msa



1000 Large Goods Vehicles per week (8-12 msa)



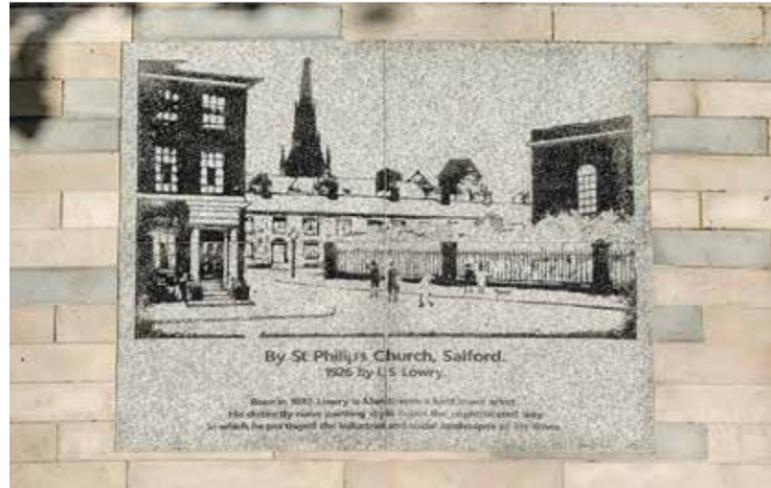
Heavy Duty Pavements for Ports and similar industries

If you have any queries whatsoever, please contact a member of the Marshalls design team or your local Marshalls paving engineer, **0345 2030 600**

# BESPOKE PRODUCTS

The landscape architecture of any project is designed to complement the structure it surrounds. For this to happen successfully it often requires innovative thought and flexibility in construction. We can advise on the right choice of finish, colour and size to ensure your scheme is as uniform or unique as you wish.

For further information on Marshalls bespoke product service please visit [marshalls.co.uk/commercial/services-360](https://marshalls.co.uk/commercial/services-360) or contact a member of the Marshalls team **0345 2030 600**



# MARSHALLS 360 - DESIGN SERVICE

Marshalls 360 brings together our design, technical, engineering and consultancy expertise to offer you a support programme like no other. With a full suite of services, all designed around you, Marshalls 360 helps you add certainty to each and every project – all for no additional cost.

To find out how your project could benefit from Marshalls 360 please visit [marshalls.co.uk/commercial/services-360](https://marshalls.co.uk/commercial/services-360) or contact a member of the Marshalls team **0345 2030 600**

- Training and Professional Development
- Technical Support
- Design Services
- Engineering Services
- Logistics and Transportation
- Post Construction Services

