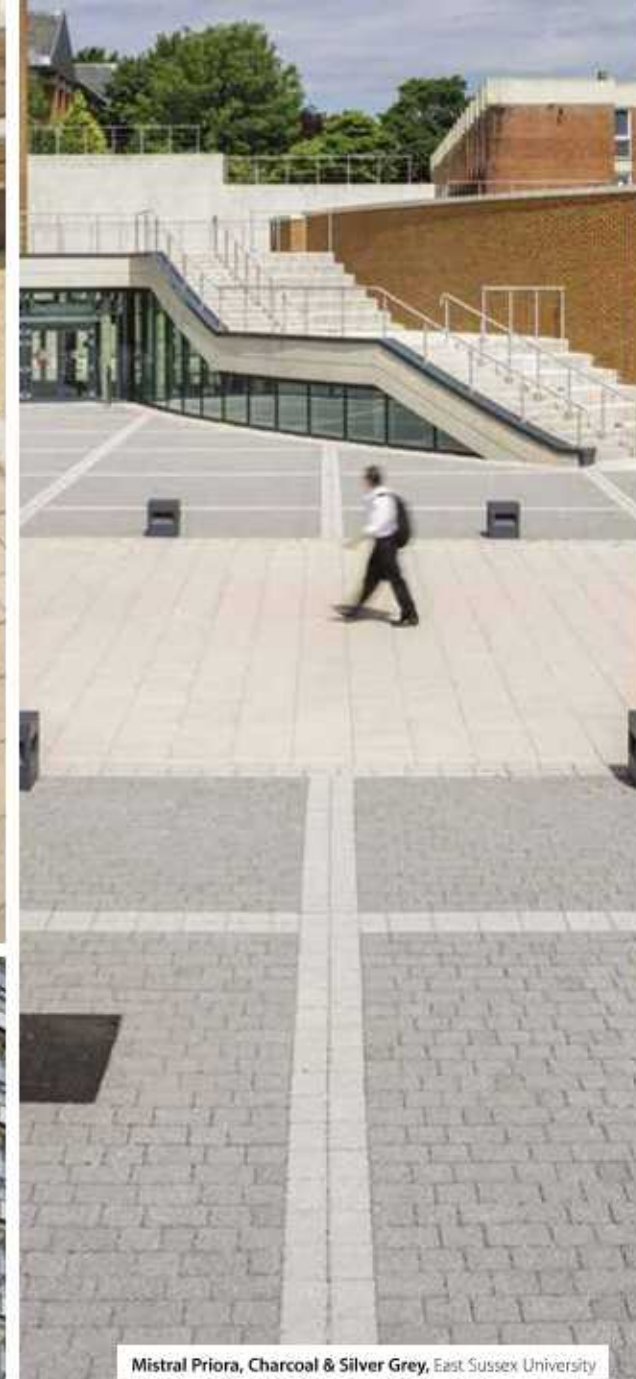
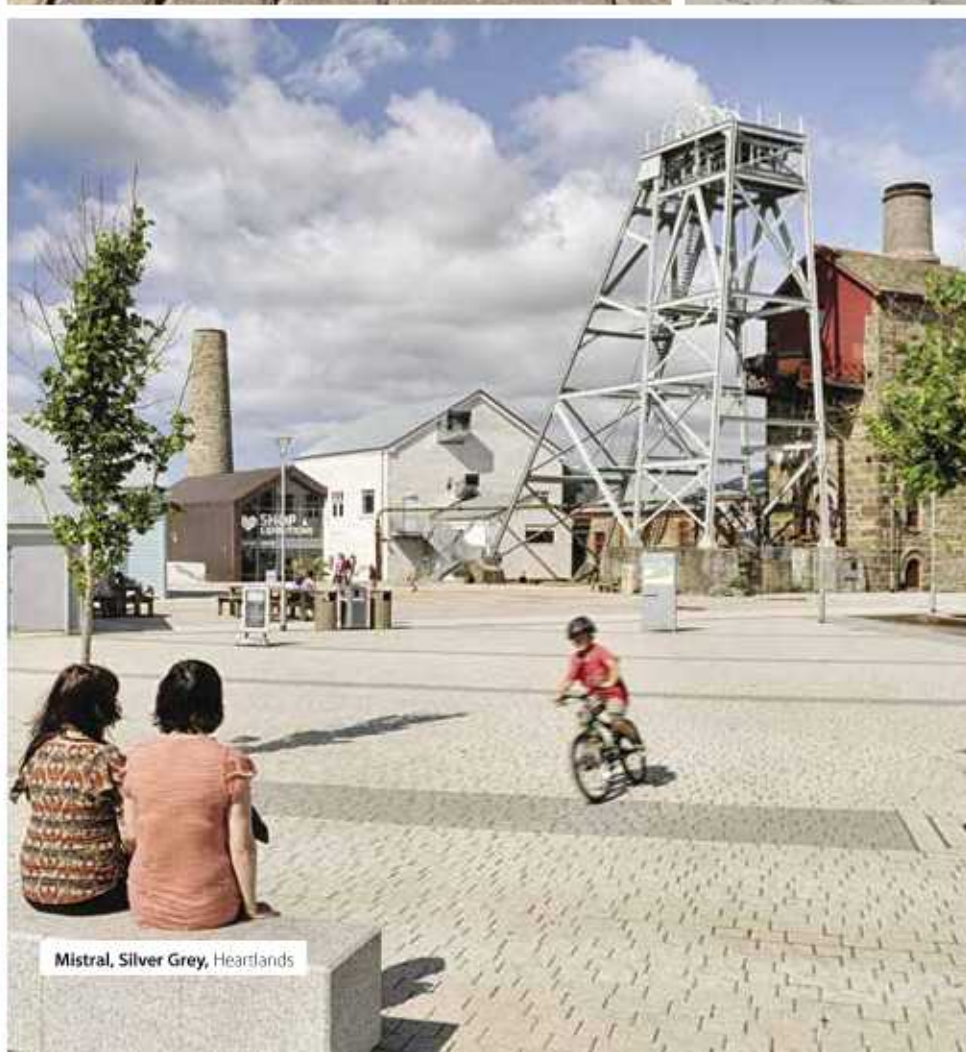




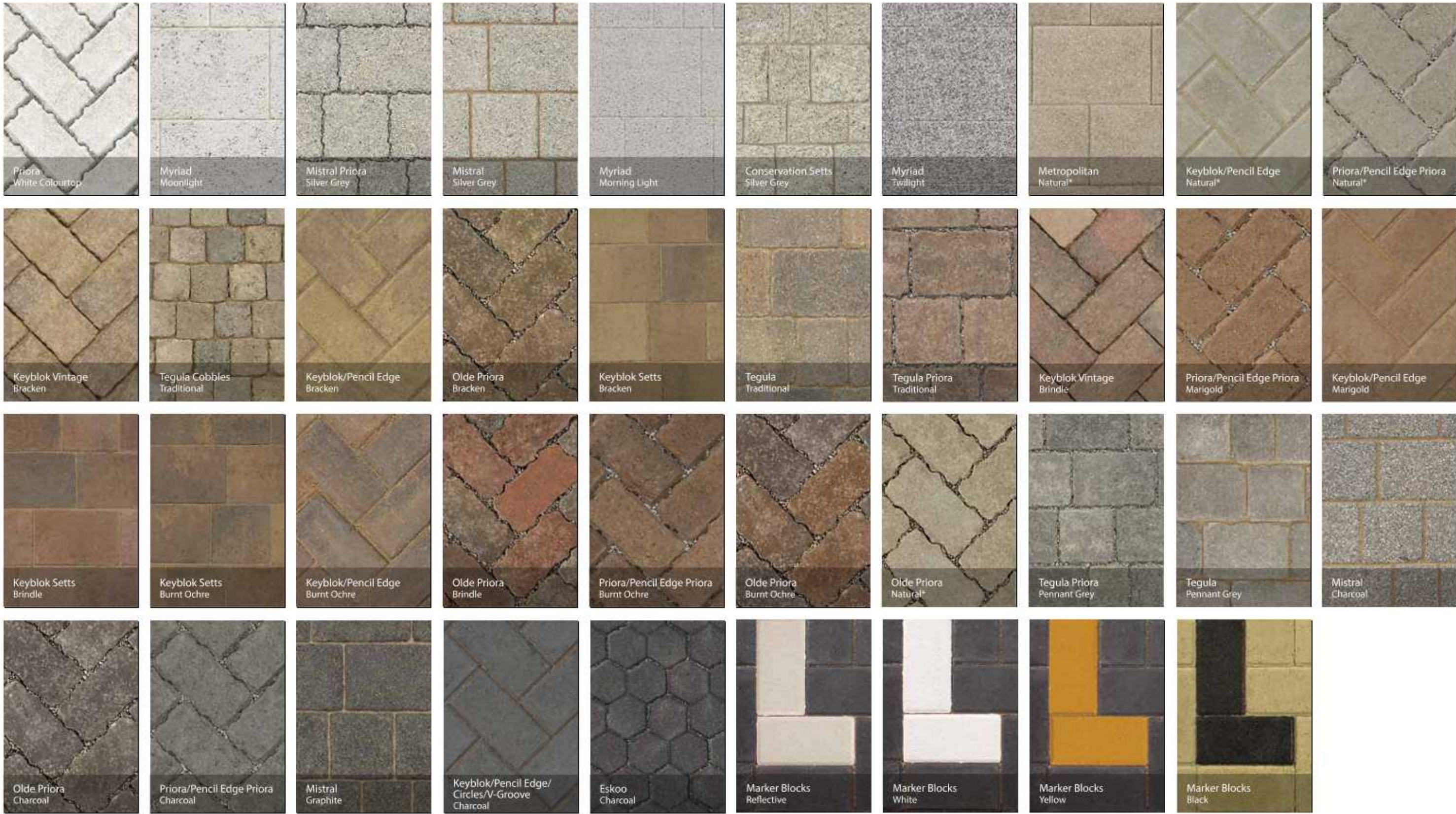
Block Paving

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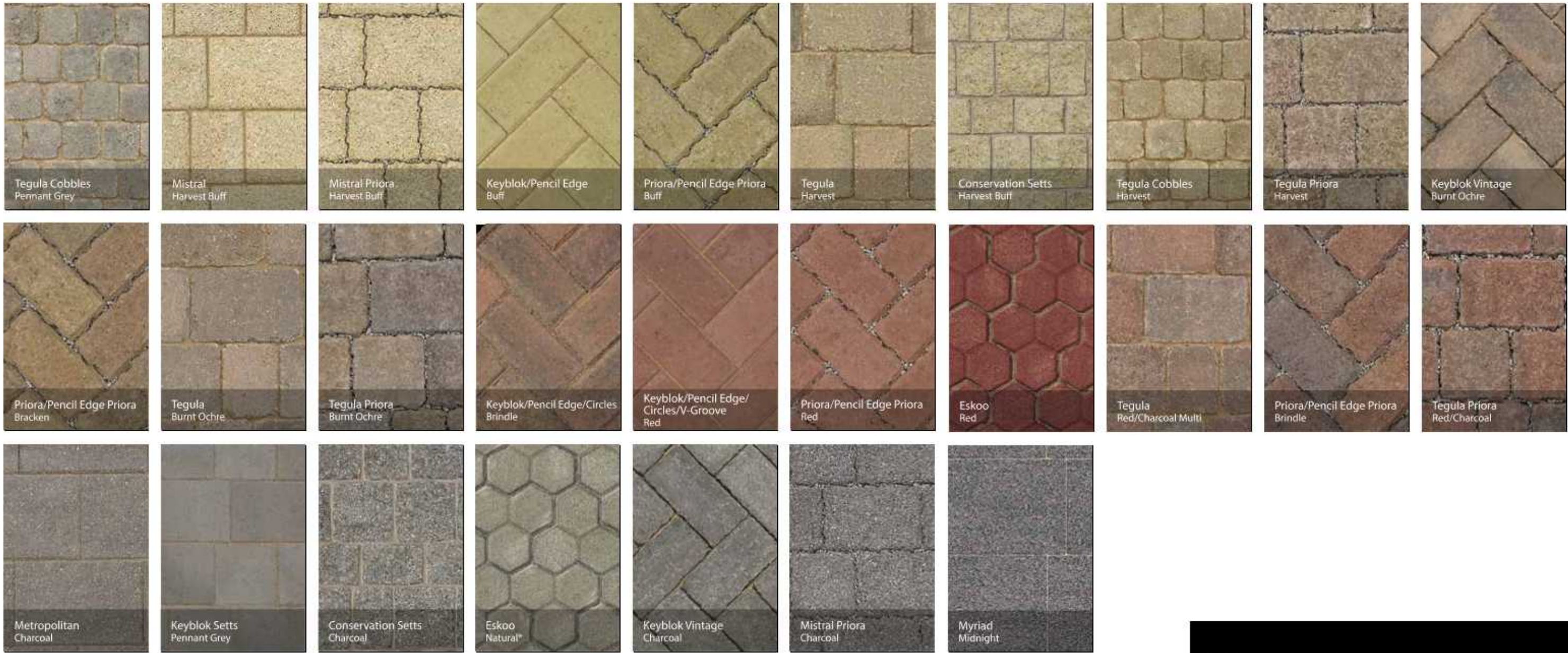
Block Paving



Block Paving Swatches



Block Paving Swatches



Block Paving Swatches

*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible

Block Paving Managing Surface Water

In recent years, the need to manage surface water has become increasingly important. More than ever, in addition to balancing aesthetics and structural performance, it is also vital to consider how CBP surfaces manage surface water runoff.

Marshalls' extensive team of designers, engineers and consultants will be happy to assist you in selecting the most appropriate CBP products for your scheme.

Managing Surface Water

Block Paving

www.marshalls.co.uk/commercial/block-paving

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Weather patterns are changing. It's raining more frequently, more intensely, and for longer periods of time. Our existing drainage systems simply weren't designed to cope with these deluges, which is why all over the UK news of devastating flooding is hitting the headlines with alarming frequency.

To reduce the effect of these floods and prevent them from happening in the future, we need to re-think the way we manage surface water within our developments. Marshalls has the knowledge, the experience and the integrated suite of products required to balance the rigorous demands of a modern landscape with the absolute need for effective, attractive and truly sustainable drainage systems.

The cornerstone of any modern drainage plan is the adoption of SuDS (Sustainable Drainage Systems).

SuDS philosophy mimics natural drainage processes by allowing water to soak into the ground as near to the source as possible. This has the effect of slowing the flow of surface water, reducing the risk of flooding. The filtration effect also improves water quality. Ideally, a SuDS system should also improve the biodiversity of the local area by providing natural green spaces in which flora and fauna can flourish. It is this balance of three key elements – water quantity, water quality and biodiversity – which creates a perfect sustainable drainage solution.

However, modern landscapes also need to perform structurally; they need to support increasingly heavy loads, travelling at increasingly high speeds. Therefore, SuDS requirements have to be balanced with the need for highly effective, more traditional techniques and functional, durable materials.

Marshalls Permeable Paving

Marshalls' own SuDS solution is Priora, the UK's market leading permeable paving system. Permeable paving looks like an attractive block paved surface, but the blocks have been specially designed to allow water to flow down through the joints and into a specially prepared sub-base. The water is stored in the sub-base until it is either absorbed slowly into the ground, or is carefully channelled into a receiving watercourse at a controlled rate.

Installation is easy, requiring only the blocks and two different grades of nationally available aggregate. Because there are no complicated channels, gulleys or outfalls to be designed or installed, savings can be made in terms of cost, time and energy. The resulting surface is free of standing water and requires minimal maintenance to ensure optimum performance.

Most importantly, Priora permeable paving satisfies all 3 areas of the SuDS triangle by removing water Quantity at source, improving water Quality as it flows through the sub-base, and improving Biodiversity by maintaining the water table at a healthy, natural level – while still providing a robust, hardwearing and attractive surface that has been proven to take the heaviest loads on the road.

Priora has been used successfully on projects all over the UK for more than 14 years. Enough Priora has been installed to cover more than 550 football pitches. Marshalls continue to develop the technology to ensure that we offer our customers the best possible products and the best possible design advice.

Marshalls Linear Drainage

Channel drainage is a long-established method of safely dealing with high volumes of surface water runoff. Quite simply, water is directed across a surface and into a channel, where it is channelled away to a receiving watercourse.

Compared to point drainage systems, which require complicated combinations of surface crossfalls and underground pipes, linear drainage is relatively uncomplicated. Surfaces are designed to fall in one direction to a single linear channel, which can store as well as transport large quantities of water, leaving the surface clear of runoff and helping to attenuate peak flows.

Shallow depth construction with precast concrete modules makes installation quick and easy. The linear nature of its design usually involves fewer component types and makes cross falls easier to design and install.

The Marshalls range comprises of both traditional channels and the Beany family of Combined Kerb and Drainage (CK&D) systems. CK&D systems are ideal for road drainage, comprising of a channel which is secreted inside a robust kerb-shaped unit. This highly effective, long-proven technology minimises build time and reduces cost by allowing the drainage and kerb elements of a road construction to be installed in one operation.

Across the entire Marshalls linear drainage range, a wide variety of finishes, designs and aesthetics is available to ensure that the drainage option you choose is sympathetic to its environment. We have taken care of the functional elements of our linear drainage range, leaving you free to choose the most appropriate aesthetic for your project.

Marshalls has a wealth of experience in this complex area. Using a combination of products from our permeable paving and linear drainage ranges, our in-house design team is uniquely placed to ensure that we offer the most effective solution for your requirements, finding the perfect balance between performance, aesthetic and cost.

Block Paving Case Study

When Leeds City Council required a more effective design for the city's first large Park and Ride scheme, it turned to Marshalls for the solution.

Challenge

Leeds' first major park-and-ride scheme at Elland Road includes 800 spaces, aimed at removing hundreds of cars from the city's roads. Located near Leeds United football ground, it offers a shuttle bus every 10 minutes into the city centre, helping to reduce congestion. Its construction was fast-tracked to ensure it was ready in time for the city's hosting of the first stage of the Tour de France cycle race when thousands of visitors would be descending on Leeds.

The initial design of the car park included an attenuation system using gravel in the parking bays. With concerns regarding the potential long-term durability of the car park, Leeds City Council approached Marshalls to discuss alternative solutions. The Council was keen to improve the design with a permeable paving system, particularly as the ground was susceptible to collecting water both from rainfall and run off from the road. At the same time however, it wanted to ensure that costs were controlled and kept within budget.

Solution

Marshalls carried out an assessment of the car park and established that the excavation depth could be made shallower than was originally planned. In doing so, this helped to reduce costs and enable permeable paving blocks to be installed on top of the subgrade.

A new plan was agreed and 10,000 sq m of Marshalls Priora permeable paving was supplied. Priora is an example of a Sustainable Drainage System (SuDS).

When rainwater falls onto the surface, it is allowed to pass through specially designed voids between the blocks and into a sub-base where it is stored until it either permeates into the ground, or is channelled away at a controlled rate.

Each block features a series of six patented Priora nibs around its edge, which interlock on eight separate faces in three different directions. These nibs create voids between the blocks through which water run-off percolates into the sub-base. The sub-base is composed of two types of tightly specified (but easily available) aggregate which offer excellent structural stability and also a high void ratio, which makes it ideal for storing volumes of water.

Because the infiltration rate of the bare earth was poor, Marshalls M380 Tanking Membrane was used to line the sub-base. Using the membrane effectively created a tank beneath the surface, from which the stored water could be slowly channelled away at a controlled rate.

As the ground was also classed as weak, Marshalls M15 Grid was also provided to improve the bearing capacity (or CBR) of the ground and stabilise the sub-base of the Priora system.

Benefits

Priora has provided Leeds City Council with a complete permeable paving system that mitigates flood risk, removes surface water and improves water quality - with the added benefit of a 10-year warranty. The designs of both the sub-base and the block will ensure that this large park and ride scheme will stand the test of time, offering maximum durability but with reduced maintenance.

Compared to the original design, the Priora has also resulted in a more pleasing aesthetic appearance, replacing the gravel that was proposed with high-quality, textured blocks.

Joe Malik, site engineer for Leeds City Council said: "This is the first time I've used the Priora drainage system and I'm very impressed, particularly with the final finish. Those who attended the formal opening of the park and ride, including many local dignitaries, have also praised its design and appearance."

Block Paving

www.marshalls.co.uk/commercial/block-paving

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Block Paving Mistral Piora

Installation	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Silver Grey Item Code	Charcoal Item Code	Harvest Buff Item Code
Random Course	80	160 x 240	7.0	6.72	1246	PV5726300	PV5728300	PV5721500
		160 x 160	4.7	7.17	1168	PV5726400	PV5728400	
		160 x 120	3.5	6.72	1086	PV5726350	PV5728350	
Herringbone*	80	160 x 240	7.0	6.72	1246	PV5739300		

Mistral Piora with reference numbers indicated in **bold** black are available ex-stock.
Mistral Piora with reference numbers indicated in light black are manufactured to order. Contact our sales office to discuss your requirements.
*Where a herringbone laying pattern is specified, it is essential to order Herringbone Mistral Piora units which feature correctly placed ribs to ensure that full interlock is achieved. Attempts to lay standard large Mistral Piora units in a herringbone pattern will result in clashing ribs, wide joints and ultimately an unstable surface.



Charcoal



Harvest Buff



Silver Grey

Mistral Piora

Permeable Paving System

NO_x

A striking, contemporary surface option which offers excellent drainage without the need for drainage channels. The exposed granite aggregate in the textured surface catches the light to lend a sophisticated edge to modern urban landscapes. The patented Piora nib featured on the edge of each block ensures that the pavement provides maximum structural integrity as well as unsurpassed SuDS performance.

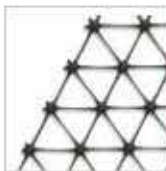
In addition, during field tests undertaken in 2014, we have proven that the patented Marshalls Piora nib provides the surface with 40% more interlock than our standard block. This means that specifying Marshalls Piora blocks will bring long-term benefits in relation to pavement longevity and maintenance requirements - regardless of the intrinsic hydraulic benefits.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

See my related products...

Mistral Block Paving	pg 28
Conservation Piora Paving	pg 52
Conservation Kerb	pg 94-95

For use with the Marshalls range of sub-base components:



MG15 Grid



MM380 Tanking Membrane Piora Aggregate



MT120 Filtration Textile



NBSPlus
Q24 115



For the latest carbon value visit
www.marshalls.co.uk/commercial/carbon-calculator



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



Tegula Piora, Harvest, Swindon

Block Paving Tegula Piora

Installation	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Traditional Item Code	Burnt Ochre Item Code	Pennant Grey Item Code	Red/Charcoal Item Code	Harvest Item Code
Random Course	60	160 x 240	5.3	9.6	1329	PV3751160		PV3755160		PV3754160
		160 x 160	3.5	6.96	1236	PV3751200		PV3755200		PV3754200
		160 x 120	2.7	9.6	1323	PV3751230		PV3755230		PV3754230
Random Course	80	160 x 240	7.0	7.68	1444	PV6451160	PV6453160	PV6455160	PV6452160	PV6454160
		160 x 160	4.7	7.16	1347	PV6451200	PV6453200	PV6455200	PV6452200	PV6454200
		160 x 120	3.5	7.68	1444	PV6451230	PV6453230	PV6455230	PV6452230	PV6454230
Herringbone*	80	160 x 240	7.0	7.68	1444	PV6461160	PV6463160	PV6465160	PV6462160	PV6464160

Tegula Piora with reference numbers indicated in **bold** black are available ex-stock.
Tegula Piora with reference numbers indicated in light black are manufactured to order. Contact our sales office to discuss your requirements.

*Where a herringbone laying pattern is specified, it is essential to order Herringbone Tegula Piora units which feature correctly placed ribs to ensure that full interlock is achieved. Attempts to lay standard large Tegula Piora units in a herringbone pattern will result in clashing ribs, wide joints and ultimately an unstable surface.



Traditional



Burnt Ochre



Pennant Grey



Red/Charcoal



Harvest

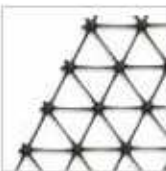
Tegula Piora

Permeable Paving System

See my related products...

Tegula Block Paving	pg 34-35
Tegula Kerb	pg 100

For use with the Marshalls range of sub-base components:



MG15 Grid



MM380 Tanking Membrane Piora Aggregate



MT120 Filtration Textile



NBSPlus
Q24 115



For the latest carbon value visit
www.marshalls.co.uk/commercial/carbon-calculator

NBSPlus
Q24 115



For the latest carbon value visit
www.marshalls.co.uk/commercial/carbon-calculator



Olde Priora, Bracken & Brindle, Sherborne Road, Crewe

Olde Priora

Permeable Paving System



A lightly weathered concrete block unit which marries the tried and trusted SuDS performance of Priora with a more rustic aesthetic. The softer visual impression provided by the lightly worn edges of the blocks works particularly well in countryside settings. Olde Priora's popular block size allow a variety of laying patterns which support all loading requirements from light domestic use right up to heavy duty industrial.

In addition, during field tests undertaken in 2014, we have proven that the patented Marshalls Priora nib provides the surface with 40% more interlock than our standard block. This means that specifying Marshalls Priora blocks will bring long-term benefits in relation to pavement longevity and maintenance requirements - regardless of the intrinsic hydraulic benefits.

nbsPlus
Q24 115



CO₂ per m²
For the latest carbon value visit
www.marshalls.co.uk/commercial/carbon-calculator



Brindle



Burnt Ochre



Bracken



Charcoal



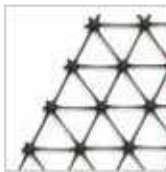
Natural

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

See my related products...

Keyblok Vintage Block Paving..... pg 40

For use with the Marshalls range of sub-base components:



MG15 Grid



MM3B0 Tanking Membrane Priora Aggregate



MT120 Filtration Textile

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Charcoal Item Code	Natural Item Code
80	200 x 100	3.4	7.32	1347	PV6521750	PV6522000	PV6522250	PV6520500	PV6520250

Olde Priora with reference numbers indicated in light black are manufactured to order. Contact our sales office to discuss your requirements.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.



Pencil Edge Priora, Brindle, Example

Block Paving Pencil Edge Priora

Thickness (mm)	Plan Size (mm)	Unit Weight (kg approx)	Pack Size (m ² approx)	Pack Weight (kg approx)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Charcoal Item Code	Natural Item Code	Red Item Code	Buff Item Code
80	200 x 100	3.4	6.16	1040	PV6571750	PV6572000	PV6572250	PV6570500	PV6570250	PV6571500	PV6570750

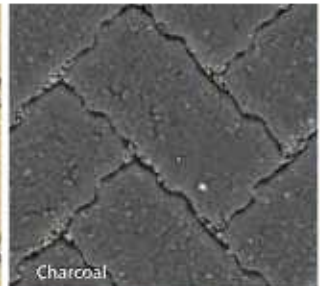
Pencil Priora Edge with reference numbers indicated in **bold** black are available ex-stock.
Pencil Priora Edge with reference numbers indicated in light black are manufactured to order. Contact our sales office to discuss your requirements.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.



Brindle



Buff



Charcoal



Burnt Ochre



Red



Natural



Bracken

Pencil Edge Priora

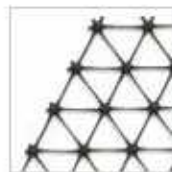
Permeable Paving System



See my related products...

Pencil Edge Block Paving..... pg 41

For use with the Marshalls range of sub-base components:



MG15 Grid



MM3B0 Tanking Membrane Priora Aggregate



MT120 Filtration Textile

This Priora variety has been developed to minimise vibration and surface noise for wheeled traffic, making it ideal for car parks and cycleways. The chamfer on the edge of the block has been eradicated to provide a smooth, flat surface while still featuring the patented Priora nib.

In addition, during field tests undertaken in 2014, we have proven that the patented Marshalls Priora nib provides the surface with 40% more interlock than our standard block. This means that specifying Marshalls Priora blocks will bring long-term benefits in relation to pavement longevity and maintenance requirements - regardless of the intrinsic hydraulic benefits.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

nbsPlus
Q24 115



CO₂ per m²
For the latest carbon value visit
www.marshalls.co.uk/commercial/carbon-calculator



Priora, Charcoal, Cowbridge

Priora

Permeable Paving System



The best-selling permeable paving system in the UK marries superb SuDS performance with a hard wearing, heavy load bearing, attractive block paved surface. Already used in a vast range of applications from industrial to residential, Priora offers a classic aesthetic for all requirements whilst simultaneously helping to alleviate the triple threat of flood, drought and pollution. The unique, patented nib on the edge of each block has been proven in extensive testing over more than 14 years.

In addition, during field tests undertaken in 2014, we have proven that the patented Marshalls Priora nib provides the surface with 40% more interlock than our standard block. This means that specifying Marshalls Priora blocks will bring long-term benefits in relation to pavement longevity and maintenance requirements - regardless of the intrinsic hydraulic benefits.

This product is available in special machine lay formation packs. This makes automated installation easy, saving time and improving health and safety on large jobs.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

See my related products...

Keyblok Block Paving..... pg 38-39

Keykerb Kerb..... pg 101-102

For use with the Marshalls range of sub-base components:

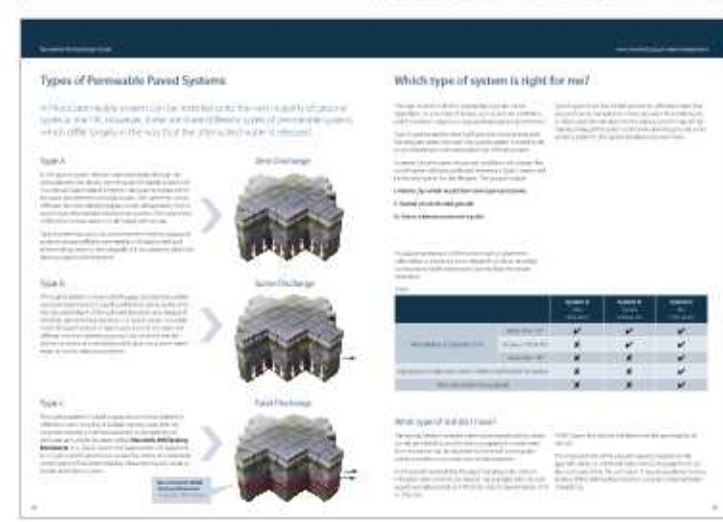
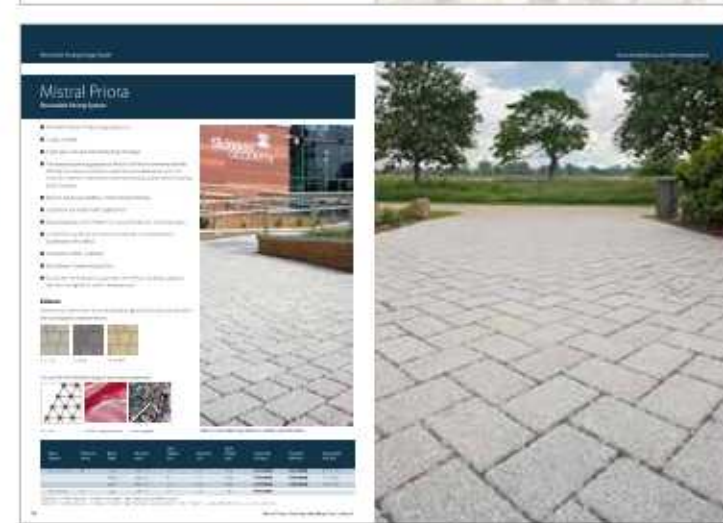


Installation	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Charcoal Item Code	Natural Item Code	Red Item Code	Marigold Item Code	Buff Item Code	White Colourtop Item Code	Yellow Colourtop Item Code
60	200 x 100	3.4	8.08	1080		PV3801750	PV3802000	PV3802250	PV3800500	PV3800250	PV3801500		PV3800750		
60	200 x 100	3.4	4	463										PV3814200	
80	200 x 100	3.4	6.16	1040		PV6501750	PV6502000	PV6502250	PV6500500	PV6500250	PV6501500		PV6500750		
80	200 x 100	3.4	4	675										PV6514200	PV6514300
45 degree ML	80	200 x 100	3.4	7.68	1310		PV6532000	PV6532250	PV6530500		PV6531100	PV6531000	PV6530750		
90 degree ML	80	200 x 100	3.4	7.92	1510						PV6531510	PV6531010	PV6530760		
Half Blocks ML	80	100 x 100	1.7	4.62	880			PV6542250			PV6541500	PV6541000	PV6540750		

Priora with reference numbers indicated in bold block are available in stock.
Priora with reference numbers indicated in light black are manufactured to order. Contact our sales office to discuss your requirements.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.



www.marshalls.co.uk/watermanagement



Our permeable paving design guide provides you with everything you need to know about SuDS, including...

- Pending legislation
- How a permeable pavement works
- Detailed information about the Marshalls Permeable Paving range
- Detailed instructions on how to construct a permeable pavement
- Information on Maintenance and Adoption of permeable pavements

Download FREE from www.marshalls.co.uk/wm





MG15 Grid



MG15 Grid Installation



6mm Marshalls Priora laying course aggregate

Technical Specification

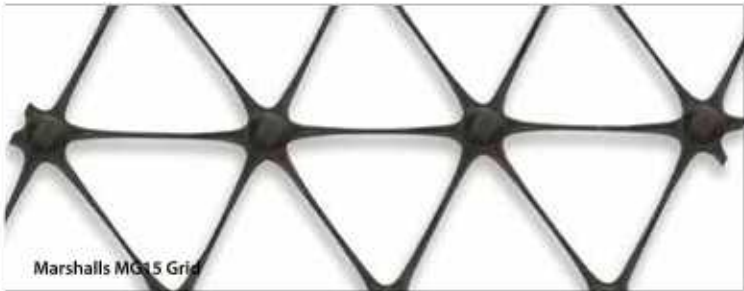
Property	Value
rib Shape	Rectangular
Aperture Shape	Triangular
Open Area Aspect Ratio	>85%
Junction Efficiency	>90%
Resistance of Chemical Degradation	96%
Resistance to Weathering	99%
Resistance to Oxidation	90%

Dimensions	Item Code
MG15 Grid (roll)	50m x 4m (200m ²)
	PV9701400

Marshalls MG15 Grid is available ex-stock.

MG15 Grid

For stabilising the sub-base of a Priora permeable pavement



Marshalls MG15 Grid

Priora Aggregates

To provide the ideal sub-base for Priora permeable pavements



6mm Marshalls Priora laying course aggregate



20mm Marshalls Priora sub-base aggregate

In a Priora permeable system, what's underneath the surface is as important as the blocks themselves. Marshalls' nationally sourced, carefully specified grade of aggregate has been selected because of its superior void ratio and maximum internal angle of friction – which ensures that your permeable pavement will perform both structurally and hydraulically. Sourced from quarries all over the UK to minimise the carbon footprint of your job. To order, please contact our Technical Advisory Service on 08704 112233, who will put you in touch with your nearest recommended supplier.

NB: You will need your Priora Fastquote number to achieve preferential Marshalls Priora Aggregate rates.

**Please note that because aggregate is sourced from a national network of suppliers, the colour and texture may differ from the aggregate in the image shown here.*

NSPlus

Q24 10 Q25 125
Q24 112 Q25 220
Q24 113 Q25 315
Q25 120



MM380 Tanking Membrane Installation, Leeds



MM380 Tanking Membrane



"Top Hat" Outfall



MM380 Tanking Membrane

MM380 Tanking Membrane

For Type C Priora Permeable Pavements

Technical Specification

Characteristic	Value or Statement	Units	Compliance Criteria	Test Method
Length	20	m	-0% / +10%	EN 1848-2
Width	4	m	+/- 2.5%	EN 1848-2
Thickness	0.38	mm	+/- 10%	EN 1848-2
Mass	395	g/m ²	+/- 12%	EN 1848-2
Resistance to impact	30	mm/diameter	>MLV	EN 12691
Resistance to tearing	185 185	N	MDV	EN 12319-1
Tensile strength	24.2 20.7	N/50mm	MDV	EN 12311-1

Dimensions	Item Code
MM380 Tanking Membrane (roll)	20m x 4m (80m ²)
	DYPV9701000
"Top Hat" Including Clip	110mm
	DYPV9701100
"Top Hat" Including Clip	160mm
	DYPV9701200
Jointing Tape (roll)	15m x 1000mm
	DYPV9701300

All Marshalls Membrane Products and Ancillaries are available ex-stock.

An impermeable tanking membrane that has been developed exclusively for use within Type C (non-infiltration) Priora permeable pavements. While thinner and lighter than most commonly used alternatives, M380 demonstrates superior strength and puncture resistance, which ensures that angular Priora aggregate will not compromise the integrity of your watertight system.

NSPlus

Q24 119



MT120 Filtration Textile Installation



MT120 Filtration Textile

MT120 Filtration Textile

To improve the quality of the water discharged from a Priora System

Dimensions	Item Code
MT120 Textile	5.4m x 100m (540m ²)
	PV9702500

Technical Specification

Characteristic	Value	Units	Test Method
Length	100	m	For Guidance
Width	5.4	m	For Guidance
Roll Weight	65	kg	For Guidance
Thickness	1.0	mm	BS EN ISO 12236
Static Puncture Strength (LCR)	1800	N	BS EN ISO 12236
Tensile Elongation	45	%	BS EN ISO 10319
Mass per unit area	120	GSM	BS EN ISO 9864
Water Flow	120	l/min ²	BS EN ISO 11058
Air Permeability	719	l/min ²	ISO 9237:1995

MT120 Filtration Textile is available ex-stock.

Marshalls' unique grade of Geotextile material can be included in Priora sub-bases to maximise water cleansing performance. Supplied in practical parking-bay sized rolls, MT120 is easy to roll out and cut allowing for fast installation.

NSPlus

Q24 115 Q24 119
Q24 117

NSPlus

Q24 117
Q24 112
Q24 119

Block Paving Mistral

Installation	Thickness (mm)	Plan Size (m²)	Unit Weight (kg)	Pack Size (m²)	Pack Weight (kg)	Silver Grey Item Code	Charcoal Item Code	Charcoal Flat Top Item Code	Graphite Item Code	Granite Flat Top Item Code	Harvest Buff Item Code
	60mm	120 x 160	2.6	8.29	1100	PV300640F	PV300840F		PV300240F		PV300160F
		160 x 160	3.5	9.22	1218	PV300635F	PV300835F		PV300235F		PV300155F
		240 x 160	5.3	16.64	1145	PV300630F	PV300830F		PV300230F		PV300150F
	80mm	120 x 160	3.5	6.45	1176	PV570635F	PV570835F		PV570235F		PV570155F
		160 x 160	4.7	7.17	1316	PV570640F	PV570840F		PV570240F		PV570160F
		240 x 160	7.1	6.72	1243	PV570630F	PV570830F		PV570230F		PV570150F
Step Unit:	150mm	350 x 1000	126		1006	FL9670300	FL9671300	PV570760		PV570730	
Step Unit:	150mm	400 x 1000	144		1152						
Machine Lay	80mm	Multipack	Multi		7.43				PV5802000		

Mistral with reference numbers indicated in **bold** black are available ex-stock.
Mistral with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.
*Complementary step units available. For step units options please refer to the Concrete Paver Step Treads and Risers product data sheet.



Mistral

Textured Granite Aggregate Setts Paving

NO_x



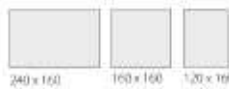
A multi-size range of textured granite aggregate setts. The exposed aggregate in the surface complements sleek, modern developments and adds a touch of class to contemporary public spaces. Suitable for any loading requirement and already employed in a vast range of settings including civil, residential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

NO_x On request, this product can be manufactured using Nover technology to improve the air quality in the area in which it is installed. For more information please see page 7.

See my related products...

Mistral Paved Block Paving.....	pg 16
Conservation Paving.....	pg 57-59
Single Solid Concrete Step Unit Paving.....	pg 72
Conservation Kerb.....	pg 94-95

Plan Sizes



nbsPlus
Q24 10 Q24 112
Q24 110 Q24 113



For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Mistral, Silver Grey, Heartlands, Cornwall

Block Paving Myriad



Myriad, Multi-colour, Example



Myriad

Combined Concrete Block and Flag Textured Paving

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m²)	Pack Weight (kg)	Midnight Item Code	Twilight Item Code	Morning Light Item Code	Moonlight Item Code
80	200 x 100	3.7	7.56	1409	PV6620100	PV6622100	PV6624100	PV6626100
80	200 x 200	7.5	7.2	1342	PV6620200	PV6622200	PV6624200	PV6626200
80	200 x 300	11.2	7.2	1342	PV6620300	PV6622300	PV6624300	PV6626300
80	200 x 400	14.9	6.72	1253	PV6620400	PV6622400	PV6624400	PV6626400
80	200 x 600	22.4	6.72	1253	PV6620500	PV6622500	PV6624500	PV6626500
80	300 x 100	5.6	7.56	1409	PV6620600	PV6622600	PV6624600	PV6626600
80	300 x 300	16.8	7.56	1409	PV6620700	PV6622700	PV6624700	PV6626700
80	300 x 400	22.4	6.72	1253	PV6620800	PV6622800	PV6624800	PV6626800
80	300 x 600	33.6	7.56	1409	PV6620900	PV6622900	PV6624900	PV6626900

Myriad with reference numbers indicated in **bold** black are available ex-stock.
Myriad with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.

See my related products...

Coda Street Furniture.....	pg 204
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Plan Sizes



A truly creative paving option which affords the designer complete freedom in creating eye-catching, standout urban landscapes. The wide range of plan sizes and gauges can be mixed and matched or used individually to create a vast array of laying patterns, which are further enhanced by the complementary and sophisticated colourways. Myriad is suitable for light trafficking, making this the perfect choice for multi-functional spaces within modern, urban landscapes.

nbsPlus
Q24 110 Q24 113
Q24 112



For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator

Block Paving Conservation Setts

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m² approx)	Pack Weight (kg)	Silver Grey Item Code	Charcoal Item Code	Harvest Buff Item Code
100mm	100 x 100	2.4	5.24	1000	FL9906400	FL9906420	FL9906410
	150 x 100	3.6	5.21	1000	FL9906350	FL9906370	FL9906360
	150 x 150	5.4	5.54	1000	FL9906300	FL9906320	FL9906310

Conservation Setts are sold in one tonne bags, so therefore pack sizes will vary.
Conservation Setts with reference numbers indicated in **bold black** are available ex-stock.
Conservation Setts with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.



Charcoal

Harvest Buff

Conservation Setts

Granite Aggregate Setts



Silver Grey

See my related products...

Mistral Block Paving..... pg 28

Conservation Paving..... pg 57-59

Conservation Kerbs..... pg 94-95

Plan Sizes



Attractive, textured concrete setts featuring exposed aggregate to emulate the look of Granite. The premium aesthetic complements either traditional or contemporary schemes and can be used in a wide variety of applications such as civic, retail or residential.

nbsPlus
Q25 150 Q25 250
Q25 155 Q25 335



For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Conservation Setts, Silver Grey, Shortstown

Block Paving Metropolitan



Metropolitan, Natural, Coventry University



Natural

Charcoal

Metropolitan

Combined Concrete Block and Flag Paving Range

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m²)	Pack Weight (kg approx)	Natural Item Code	Charcoal Item Code
80mm	200 x 100	3.6	7.56	1361	PV6S81100	PV6S82100
	200 x 200	7.2	7.2	1296	PV6S81200	PV6S82200
	300 x 200	10.8	7.2	1296	PV6S81300	PV6S82300
100mm	300 x 300	16.2	7.56	1361	PV6S81400	PV6S82400
	600 x 300	32.4	7.56	1361	PV6S81500	PV6S82500

Metropolitan with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.

*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.

Plan Sizes



A cost effective way to create truly individual laying patterns by freely mixing and matching a wide range of sizes. The textured surface provides excellent slip / skid performance, making Metropolitan ideal whenever a design-led, inspirational solution is required in either civic, retail or education landscapes. The block sized options are suitable for any loading application.

nbsPlus
Q24 10 Q25 120
Q24 110 Q25 125
Q24 112 Q25 220
Q24 113 Q25 315



For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator

Block Paving Tegula

Installation	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m²)	Pack Weight (kg)	Traditional Item Code	Burnt Ochre Item Code	Pennant Grey Item Code	Red/ Charcoal Multi Item Code	Harvest Item Code	
	80mm	120 Gauge	120 x 80	1.8	6.91	1267	PV6107900	PV6207300	PV6308500	PV6157600	PV6258200
			120 x 120	2.7	6.22	1149	PV6107260	PV6207860	PV6308460	PV6157560	PV6258160
			120 x 160	3.6	6.91	1278	PV6107230	PV6207830	PV6308430	PV6157530	PV6258130
	60mm		120 x 160	237	9.45	1272	PV3107230	PV3207830	PV3308430	PV3157530	PV3258130
			160 x 100	3.5	8.91	1260	PV3107200	PV3207800	PV3308400	PV3157500	PV3258100
			240 x 160	5.3	8.91	1272	PV3107160	PV3207760	PV3308360	PV3157460	PV3258060
	80mm	160 Gauge	160 x 120	3.6	6.91	1278	PV6107230	PV6207830	PV6308430	PV6157530	PV6258130
			160 x 160	4.7	6.91	1277	PV6107200	PV6207800	PV6308400	PV6157500	PV6258100
			160 x 240	7.1	6.91	1278	PV6107160	PV6207760	PV6308360	PV6157460	PV6258060
	80mm	240 Gauge	240 x 160	7.1	6.91	1278	PV6107160	PV6207760	PV6308360	PV6157460	PV6258060
			240 x 240	10.7	6.22	1150	PV6107130	PV6207730	PV6308330	PV6157430	PV6258030
			240 x 320	14.1	6.22	1142	PV6107100	PV6207700	PV6308300	PV6157400	PV6258000
ML	80mm	160 Gauge	Multi Pack	Multi	7.43	1374	PV6317100	PV6317700	PV6317500	PV6318000	

*Tegula with reference numbers indicated in **bold** black are available ex-stock.
*Tegula with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.



Tegula
Concrete Sett Paving



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.

This product is available in special machine lay formation packs. This makes automated installation easy, saving time and improving health and safety on large jobs.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

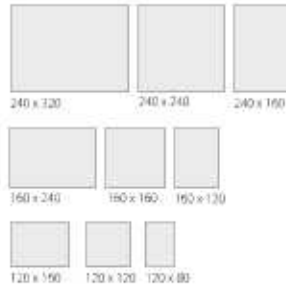
See my related products...

Tegula Priors Block Paving..... pg 17

Tegula Cobbles Block Paving..... pg 36

Tegula Kerb Sett..... pg 100

Plan Sizes



NBSPlus
Q24 10 Q24 112
Q24 110 Q24 113



CO₂ per m²

For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Tegula, Traditional, Blackpool



Tegula, Traditional, Ocean Estate



Tegula, Pennant Grey, Gately Green



Tegula, Traditional, Lutterworth



Tegula, Pennant Grey, Darlington



Tegula, Pennant Grey & Harvest, Clay Farm, Cambridgeshire



Tegula, Traditional, Hull



Tegula Noxer, Pennant Grey, Kendal



Tegula Cobbles, Pennant Grey, Sherborne Road, Crewe



Keyblok Setts, Brindle, Cardiff

Tegula Cobbles

Concrete Sett Paving

Weathered concrete setts which can be used either on their own, or to add attractive detailing to standard Tegula surfaces. Suitable for pedestrian areas.

See my related products...

Tegula Block Paving pg 34-35

Tegula Kerb Sett pg 100



Traditional



Pennant Grey



Harvest

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Traditional Item Code	Pennant Grey Item Code	Harvest Item Code
60mm	80 x 80	0.9	7.25	6.58	PV3400100	PV3400500	PV3400400

Tegula Cobbles with reference numbers indicated in **bold** black are available ex-stock.



Brindle



Burnt Ochre



Bracken



Pennant Grey

Keyblok Setts

Concrete Block Paving

Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Pennant Grey Item Code
60mm	120 x 160	2.65	9.5	25.2	PV2821850	PV2822100	PV2822350	PV2822650
	160 x 160	3.5	9.85	34.4	PV2821800	PV2822050	PV2822300	PV2822600
	240 x 160	5.3	10.56	51.8	PV2821750	PV2822000	PV2822250	PV2822550
80mm	120 x 160	3.5	7.76	27.4	PV5871850	PV5872350	PV5872850	PV5873350
	160 x 160	4.7	8.06	38.1	PV5871800	PV5872300	PV5872800	PV5873300
	240 x 160	7.1	8.64	61.2	PV5871750	PV5872250	PV5872750	PV5873250

Keyblok Setts with reference numbers indicated in **bold** black are available ex-stock.
Keyblok Setts with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.

See my related products...

Keyblok Block Paving pg 36-39

Keyblok Kerb pg 101-102

Plan Sizes



A sett-sized variant of the UK's most popular concrete block paving. Ideal for creating distinctive patterns in Keyblok surfaces, or alternatively to be used on their own to create a truly individual aesthetic. 80mm units are suitable for all applications up to and including heavy duty, while 60mm units can withstand occasional HGV overrun.



Keyblok, Brindle, Lutterworth



Keyblok, Brindle, Faversham



Keyblok, Brindle, King Harry Lane



Keyblok, Bracken, King Harry Lane



Keyblok, Burnt Ochre, Shortstown



Keyblok, Brindle, Haddon Hall, Derbyshire



Keyblok, Brindle, Charcoal and Natural, Tesco, Cleveland



Keyblok
Concrete Block Paving

NO_x

	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Natural Item Code	Charcoal Item Code	Buff Item Code	Marigold Item Code	Red Item Code
Installation	60mm	200 x 100	2.8	8.08	1131	PV2051750	PV2052000	PV2052250	PV2050250	PV2050300	PV2050750	PV2051000	PV2051500
	65mm	200 x 100	3	7.44	1116	PV4051750							
	80mm	200 x 100	3.7	6.16	1140	PV5051750	PV5052000	PV5052250	PV5050250	PV5050300	PV5050750	PV5051000	PV5051500
45° ML	20mm	200 x 100	3.7	6.16	1463			PV5102250	PV5100250		PV5100750	PV5101000	PV5101500
45° ML	60mm	200 x 100	2.8	8.08	1463	PV2101750	PV2102000	PV2102250	PV2100250	PV2100300	PV2100750	PV2101000	PV2101500
90° ML	20mm	200 x 100	3.7	6.16	1463	PV5101770	PV5102010	PV5102260	PV5100270		PV5100760	PV51001010	PV5101510
90° ML	60mm	200 x 100	2.8	8.08	1463	PV2101770		PV2102260	PV2100270	PV2100310	PV2100760	PV21001010	PV2101510
Half Block	30mm	100 x 100	1.9	6.16	880			PV512260			PV5110760	PV5111010	

Keyblok with reference numbers indicated in **bold** black are available ex-stock.
Keyblok with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.

See my related products...

Keyblok Extensions Block Paving..... pg 41

Keychannel Block Paving..... pg 45

Keybribe Kerb..... pg 101-102

The UK's most popular concrete block paving. Keyblok units feature a chamfered edge and are available in a wide variety of colours, ranging from vibrant to subtle. Suitable for any loading requirements and employed in the broadest range of settings from residential to industrial.

This product is available in special machine lay formation packs. This makes automated installation easy, saving time and improving health and safety on large jobs.

NO, On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

Q24 110
Q24 111

CO₂ per m²

For the latest carbon values visit
www.marshallnbs.co.uk/commercial/carbon-calculator

Block Paving Keyblok Vintage								
Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Bracken Item Code	Charcoal Item Code	Burnt Ochre Item Code
60mm	200 x 100	2.6	8.08	1067	PV2059600	PV2059600	PV2059100	PV2059700
80mm	200 x 100	3.5	6.16	1084	PV5059600	PV5059600	PV5059100	PV5059700

Keyblok Vintage with reference numbers indicated in **bold** black are available ex-stock.
Keyblok Vintage with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.



Keyblok Vintage
Concrete Block Paving

NO_x

Brindle

A lightly weathered variant of the UK's most popular concrete block paving, featuring a slightly distressed surface for integration into more traditional, rural settings. Suitable for any loading requirements.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

nbsPlus
Q24 10 Q24 112
Q24 110 Q24 113

CO₂ per m²

For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Keyblok Vintage, Burnt Ochre, Devises



Keyblok Circle, Charcoal, Glasgow



V-Groove Keyblok, Burnt Ochre, Nottingham



Pencil Edge Keyblok, Brindle, Rotherham

Block Paving Keyblok Extensions						
Thickness (mm)	Plan Size (mm)	Radius (metres)	No. of Packs in Circle	Pack Weight (kg)	Brindle Item Code	Charcoal Item Code
80mm	100 x 200 Tapered	1.3	1	706	PV5061750	PV5060500
	100 x 200 Tapered	2.5	4	911	PV5061700	PV5060510

Keyblok Circle with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.

Pencil Edge Keyblok											
Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Burnt Ochre Item Code	Bracken Item Code	Natural Item Code	Charcoal Item Code	Buff Item Code	Red Item Code
60mm	200 x 100	2.8	8.08	1131	PV2201750	PV2202000	Can I move this column?	PV2200250	PV2200500	PV2200750	
80mm	200 x 100	3.7	6.16	1140	PV5201750	PV5202000		PV5200250	PV5200500	PV5200750	PV5201500

Pencil Edge Keyblok with reference numbers indicated in **bold** black are available ex-stock.
Pencil Edge Keyblok with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.

V-Groove Keyblok									
Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Brindle Item Code	Bracken Item Code	Natural Item Code	Charcoal Item Code	Buff Item Code
60mm	200 x 100	2.8	8.08	1131			PV2400250	PV2400500	PV2400750
80mm	200 x 100	3.7	6.16	1140	PV5401750	PV5402250			

V-Groove Keyblok with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.
*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.



Keyblok Extensions
Concrete Block Paving

NO_x

See my related products...

Keyblok Circle..... pg 101-102

A range of carefully designed and engineered units which allow truly creative laying options.

- Keyblok Circle: Specially tapered units designed to create round concentric patterns. Ideal for use with 200 x 100 blocks.
- Pencil Edge Keyblok: A 'flat top' Keyblok variety with minimal chamfering at the edge, designed to provide a smoother ride for wheeled vehicles.
- V Groove Keyblok: A 200 x 100 block which looks like two 100 x 100 blocks courtesy of a moulded-in groove on the surface.

NO_x On request, this product can be manufactured using Noxer technology to improve the air quality in the area in which it is installed. For more information please see page 7.

nbsPlus
Q24 10 Q24 112
Q24 110 Q24 113

CO₂ per m²

For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator

Thickness (mm)	Plan Size (mm)	Pack Size (m ²)	Unit Weight (kg)	Colourtop Pack Weight (kg)	Colourtop Block Item Code	Colourtop White Item Code	Colourtop Yellow Item Code	White Reflective Item Code	Marker Block* Item Code
60mm	200 x 100	7.68	2.8	1131	PV2604000	PV2604200	PV2604300	PV2604400	PV2604500
80mm	200 x 100	6.72	3.7	1140	PV5604000	PV5604200	PV5604300	PV5604400	PV5604500

Marker Blocks with reference numbers indicated in **bold** black are available ex-stock.
Marker Blocks with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.
*Units available for use with Pallas, La Liria, Metropolitan and Piora as a special.



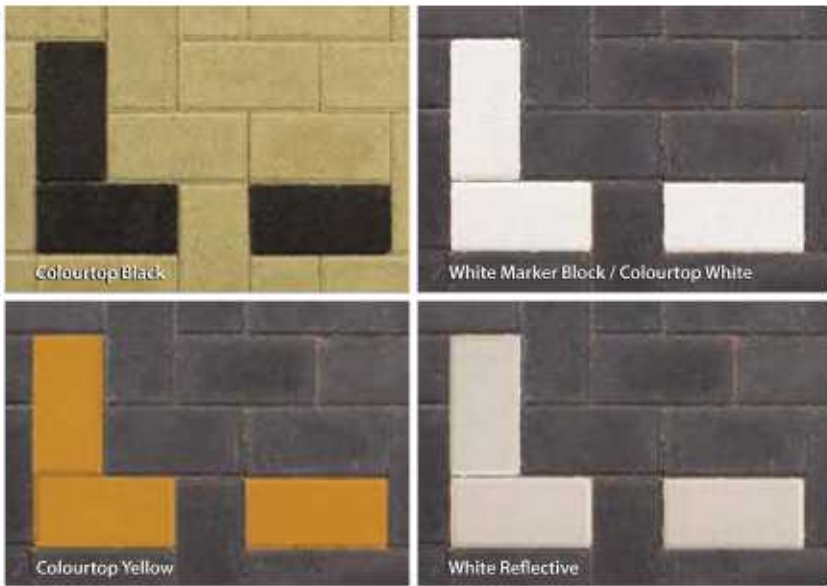
Marker Block, White, Halifax

Marker Blocks

Allows for delineation or signage without the need for overpainting. A range of different colours is available in addition to standard white and reflective white. The durable surface offers excellent slip / skid performance and is ideal for use wherever a permanent visible marker is required, such as loading bays or car parks.

See my related products...

Keyblok Block Paving pg 38-39



nssPlus
Q24 10 Q24 112
Q24 110 Q24 113



CO₂ per m²

For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Priora Marker Block, White, Thorpe Park, Leeds



Eskoo Six, Charcoal, Park and Ride, Martlesham



Eskoo Six
Machine Laid Shaped Block Paving



	Thickness (mm)	Plan Size (mm)	Unit Weight (kg)	Pack Size (m ²)	Pack Weight (kg)	Natural Item Code	Red Item Code
Edge Block	80	196.2 x 197	4.63	6.73	1250	PV5751025	PV5751150
End Block	80	170.5 x 146.5	4.63	3.33	990	PV5751027	PV5751151
End Block	80	197 x 113	4.63	5.10	944	PV5751027	PV5751152

Eskoo Six with reference numbers indicated in light black are manufactured to order. Please contact Sales Office for further details.

*Natural products are manufactured from aggregates sourced locally to the works and contain no pigmentation, therefore colour variation between products from different works is possible.

A structurally superior surface for the heaviest loads. Each unit comprises of three tessellating hexagons, which, when laid, interlock in seven different directions to create a robust, hardwearing surface which will safely withstand heavy loads and forces across all horizontal directions. This attractive finish is available as a machine lay option, maximising speed of installation on large scale industrial projects.

Eskoo Six is intended for large areas. As such it is available only in machine lay formation packs, which minimise installation time and reduce the risk of health and safety issues.

nssPlus
Q24 111



CO₂ per m²

For the latest carbon value visit
www.marshall.co.uk/commercial/carbon-calculator



Block Paving Blister

Blister

Concrete Block Tactile Paving

A durable solution for DDA compliant crossing points. In modern multi-function urban landscapes, crossing points are frequently driven over or parked on either accidentally or otherwise. These cleverly designed units are capable of withstanding accidental overrun from the heaviest loads on the road, while still providing the necessary physical and visual indicators of a pending hazard. The blisters have been positioned in such a way that the blocks can be laid in any pattern while still maintaining the correct formation to satisfy BS EN 1339: 2003.

