



THE CLAY PAVER BOOK

  
**Wienerberger**



For the past 200 years, we've been doing things in our own unique style. And by doing so have created a name in the market that is synonymous with quality, expertise and innovation. Our clay pavers are a great example of this; naturally strong and beautiful, they are a product that has been perfected over decades. The quality construction of each paver allows them to be used in many areas, from domestic environments to heavily trafficked areas.

Landscape pavers are built to retain their colour and beauty, which is why we can guarantee the colour won't fade for over 100 years, so you can enjoy a product that always looks as good as the day it was laid.

Whether your project is a small driveway or landscape design on a huge commercial scale, we know you're going to love paving *our way*.

**Pictured front cover and above: Europe Square, Rijssen, NL - Porto & Auraton**

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# MATERIAL SOLUTIONS FOR A BETTER QUALITY OF LIFE

At Wienerberger, our vision is a simple one: to be the most recognised provider of building material solutions in the UK market.

We want to be understood by our customers and employees as focused on creating products, services and solutions that deliver, above all else, a better quality of life.

It's an ethos that means that we've designed our landscape portfolio to enrich the projects and environments it's used in.

# OUR PILLARS

## WE WORK ACCORDING TO FOUR PILLARS:



### Value

When we say value, we don't mean cost. Throughout the supply chain, we demand that our products and services exceed rather than just meet expectations. That way we ensure we offer true value to our stakeholders.



### Quality & Expertise

Our global manufacturing heritage spans two centuries and we channel all of that expertise in the UK. Whether it's an innovative clay block walling system, a handmade roof tile or pavers featuring SuDS technology, we apply exacting quality standards to our work.



### Innovation

We're dedicated to finding new ways to be better. That means embracing new technologies, exploring new techniques and investing in new ideas to help our products and services deliver a better quality of life.



### Sustainability at Wienerberger

Sustainability is a dynamic and lasting commitment. It's part of our culture and applies to everything we do.

# THE SUSTAINABILITY OF CLAY

Clay is a material that helps improve the sustainability of the built environment in which it is used, so it's important to us that environmental factors are considered right back to origin.

Our clay is sourced from the Netherlands, where we work with specialist organisations to ensure our clay extraction methods are not only sustainable, but provide a positive contribution to the nation's management of flood plains and rivers.

We also ensure extraction levels never exceed the amount of clay deposited by the rivers to avoid depleting such a valuable natural resource.

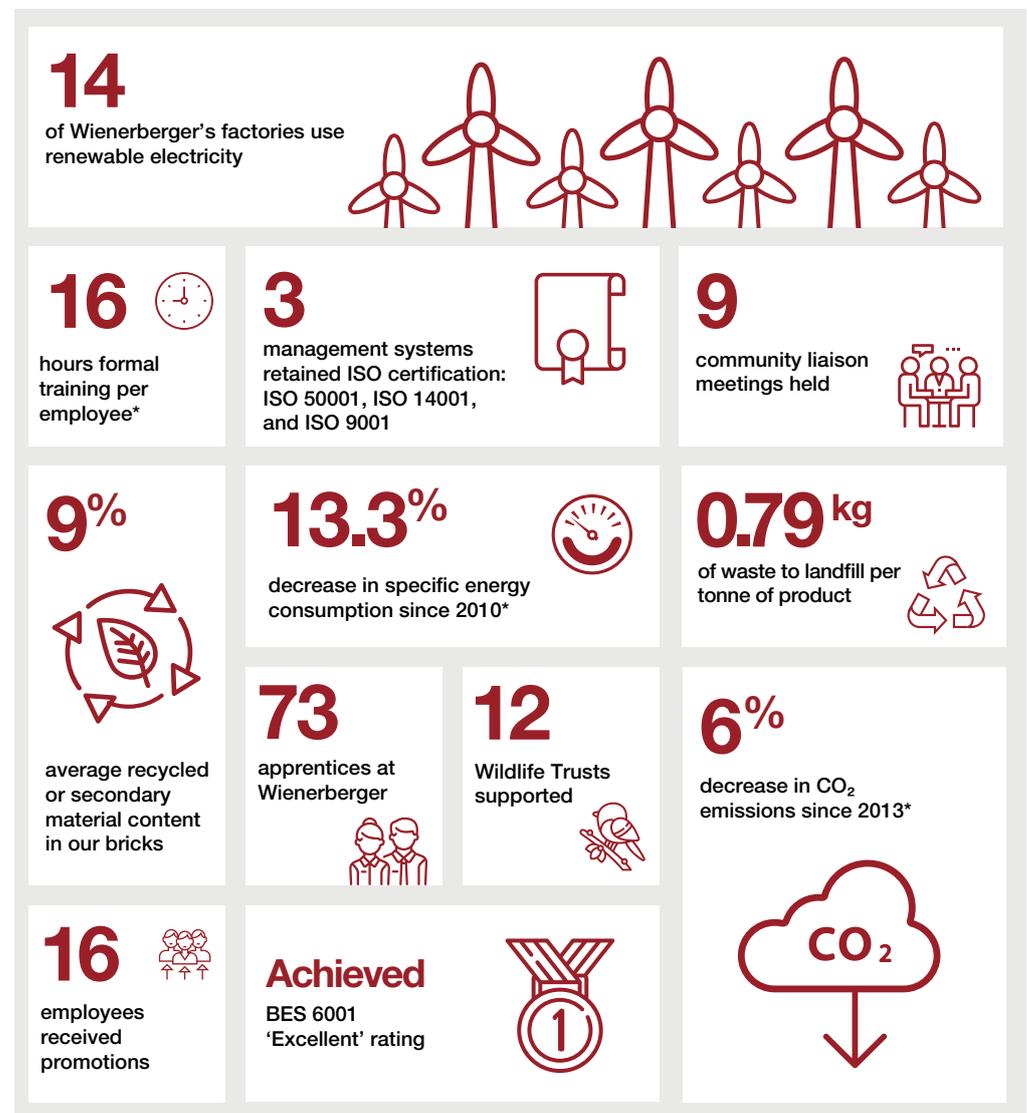
Our Dutch clay operations are:

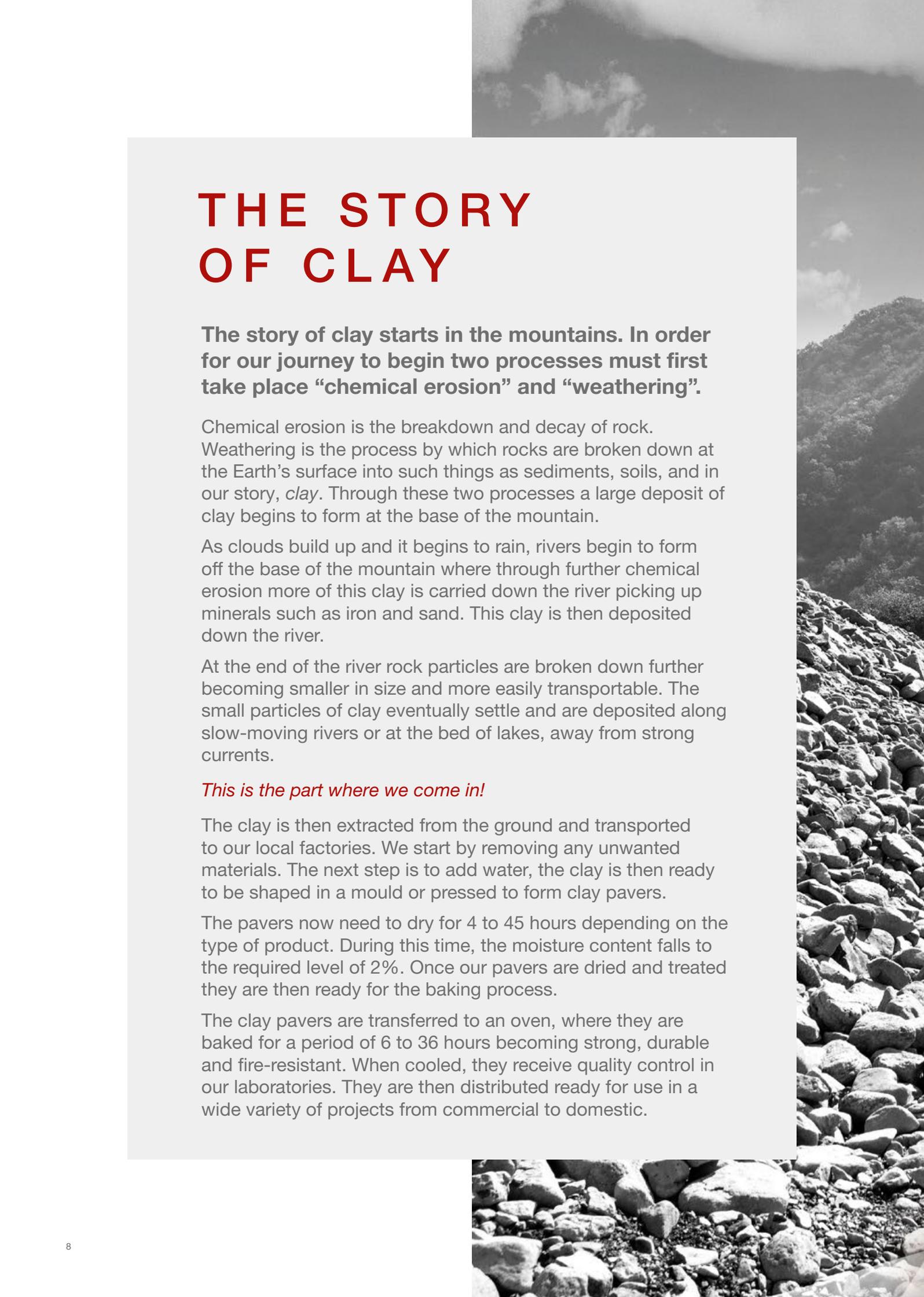
- Close to extraction sites and moved by barge to minimise lorry usage
- Long term members of the Dutch covenant MultiYear Energy Efficiency (MJA)
- Signatories of the Foundation for Climate Friendly Procurement & Entrepreneurship (SKAO)
- In accordance with ISO 14001, ISO 9001 and KOMO quality certification systems at national level
- Supplied with 100% green electricity across all sites

# SUSTAINABILITY IN NUMBERS

It's a term that we use to define organic business growth in harmony with ecological, social and economic principles. It spans everything from employee development and community outreach, to the resource efficient production of healthy, durable products.

Here's a snapshot of our recent achievements:





# THE STORY OF CLAY

**The story of clay starts in the mountains. In order for our journey to begin two processes must first take place “chemical erosion” and “weathering”.**

Chemical erosion is the breakdown and decay of rock. Weathering is the process by which rocks are broken down at the Earth’s surface into such things as sediments, soils, and in our story, *clay*. Through these two processes a large deposit of clay begins to form at the base of the mountain.

As clouds build up and it begins to rain, rivers begin to form off the base of the mountain where through further chemical erosion more of this clay is carried down the river picking up minerals such as iron and sand. This clay is then deposited down the river.

At the end of the river rock particles are broken down further becoming smaller in size and more easily transportable. The small particles of clay eventually settle and are deposited along slow-moving rivers or at the bed of lakes, away from strong currents.

*This is the part where we come in!*

The clay is then extracted from the ground and transported to our local factories. We start by removing any unwanted materials. The next step is to add water, the clay is then ready to be shaped in a mould or pressed to form clay pavers.

The pavers now need to dry for 4 to 45 hours depending on the type of product. During this time, the moisture content falls to the required level of 2%. Once our pavers are dried and treated they are then ready for the baking process.

The clay pavers are transferred to an oven, where they are baked for a period of 6 to 36 hours becoming strong, durable and fire-resistant. When cooled, they receive quality control in our laboratories. They are then distributed ready for use in a wide variety of projects from commercial to domestic.



One CityPlace



# WHY CLAY HAS STOOD THE TEST OF TIME

Throughout human history, we only have to look at the evidence that exists to see that clay as a building choice has been employed as one of nature's most trusted natural materials, with its use even dating as far back as the Babylonian civilisation in 3000BC.

An incredibly versatile and robust material, clay has been used for a wide range of practical uses including cooking pots, artwork, kitchen utensils and of course construction. Because clay is a natural product it is able to retain its colour for hundreds of years. This is made possible due to the colour properties that exist naturally within the material's earthy texture.

## History in Clay

It's a material that's been part of Wienerberger's story since the very beginning. As the largest producer of bricks in the UK, and one of the world's largest providers of solutions for the construction industry too, we know just how useful and beneficial the material can be for any number of projects.

We know that clay construction solutions can last many lifetimes. We know because we've seen our own products span the decades. That's why our paver portfolio has been designed to utilise this material. Every paver embodies the benefits and opportunities clay presents.

## A Legacy of Quality

Despite the diverse and complex array of construction materials now on offer, clay remains the most efficient, cost effective and sustainable solution for modern construction. Clay provides longevity and durability, offering an architectural life of a century or more with easy maintenance from first to last.

Sound, heat and impact resistance are all inherent benefits, providing guaranteed performance in any number of landscape applications. What's more, clay pavers are well suited to the common vernacular of red brick or natural stone construction, creating a sympathetic option for renovation projects, or a contrasting highlight for contemporary design.

# THE BENEFITS OF CLAY

With a wide range of performance and sustainability benefits, clay is the perfect choice of material for landscaping projects. At Wienerberger, we are proud to offer clay pavers as part of our landscape portfolio. Take a look below to learn more of the reasons why the possibilities of clay should be considered when designing your next landscape project.

## Circular economy

The circular economy is a concept in which everything is engineered to be constantly reused or recycled (KLH Sustainability, 2019). With a lifespan of over a century clay pavers often outlast the paving sub-base, meaning pavers can be relayed following sub-base repair/ replacement or the pavers can be reused in another paving project. These aspects mean clay pavers can embed circular economy design principles in the built environment.

## Strong & Durable

With such an extensive lifespan of over 100+ years, clay pavers bring longevity to any project. They are able to cope with consistently high footfall without impacting aesthetic or performance. Clay really is a product with a legacy!

## Sustainable solution

Clay is a material we are able to reuse and recycle as it will always replenish itself. The majority of our clay is sourced from the Netherlands where we work with specialist organisations to ensure our clay extraction methods are not only sustainable but provide a positive contribution to the nation's management of flood plains and rivers.

## Non-Slip Surface

Our clay paving range have an SRV "U3" slip resistance value (the highest classification possible) due to their natural texture surface and highly abrasive characteristic meaning clay provides the perfect solution for domestic and commercial applications.

## Beautiful Design options

Clay, unlike a common misconception is not just red in colour. Wienerberger's clay paver portfolio offers unique sizing as well as a vast array of colours and textures. With everything from traditional autumnal colours to blacks, blues and greys in order to suit any design!

## Natural & Colourfast

The rich colour of Wienerberger's clay pavers last for hundreds of years. That means the product does not fade unlike other alternatives. The colour in man-made materials will fade over time due to the effects of exposure to atmospheric conditions and the sun (UV). This colour retention quality is due to the fact that the colour in clay is generally natural whereas the colour in man-made alternatives is added to the product later in the production process.





# BRING THE OUTSIDE IN

**Paver slips are a perfect demonstration of clay's adaptability to modern architecture and design trends.**

Like brick slips, paver slips are thin sections of clay pavers that offer the same appearance as a full paver but that can be fitted, internally or externally, to a range of surfaces.

Whether you are creating commercial spaces such as cafés and hotels, roof gardens or residential projects, we offer a comprehensive and stylish range.



To find out more about Wienerberger Brick and Paver Slips visit: [www.brickslips.wienerberger.co.uk](http://www.brickslips.wienerberger.co.uk)

# BLEND S

The beauty of clay paving is that each paver design can be installed on its own as a stunning landscaping solution or be combined with other shades to create a unique and eye-catching blend.

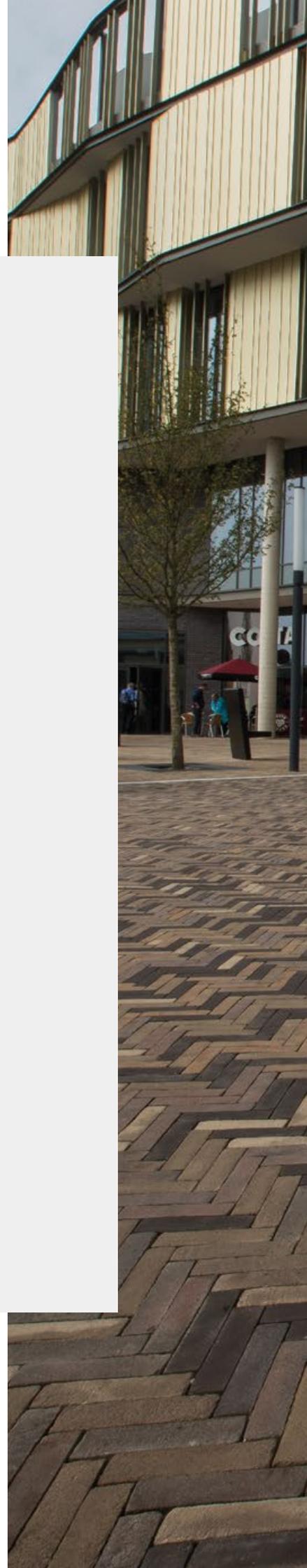
## Defined by Water

With a wide range of colours, textures and sizes available in the Wienerberger clay paver collection, landscape architects can unlock unlimited creative possibilities when designing their own bespoke mixture of pavers for a scheme.

To create a blend, make your selection from pavers in a spectrum of colours, including greys, browns, blacks, reds, oranges, buffs and creams. The natural colour variation within each paver design further enhances the overall visual effect. The colourfast qualities of natural clay will ensure that the tones chosen for each blend will continue to look their best for a lifetime.

Paver blends are an effective way of creating the right ambience for outdoor spaces. A bold, directional paving design featuring strong colours can be used to draw attention to a landmark or encourage the flow of foot traffic along a chosen route. Alternatively, a paver blend with a soft and subtle aesthetic that complements the surrounding architecture is ideal for public spaces where people can relax and socialise.

Wienerberger's dedicated landscape team are on hand to offer advice on how to achieve the perfect paver blend for a wide variety of projects and provide specialist support for large-scale schemes.







# TUMBLLED PAVERS

If your project requires a more unique and varied aesthetic, whether for a heritage or traditional look, or a contemporary mixed texture effect, our Alder range of tumbled pavers is ideal.

## Designed to Last

The range is manufactured to withstand heavy footfall and light vehicular traffic, making these pavers suitable for a range of domestic and commercial applications. The sanded finish adds texture and contrast, providing rustic style alongside fantastic longevity. Create a real legacy project with the durability and strength of clay.

## Character and Colour

Choose from a variety of colours and blends to define the aesthetics of your project. The entire Alder Paver range can be used for rigid or flexible laying, with the clay providing a natural colour fastness to lock in your visual composition.



# WATERSTRUCK PAVERS

Where landscape design lends itself towards a diverse visual impression, waterstruck pavers are the ideal choice. Each paver takes on a subtly different shape or form, leading to a more natural or random textural effect.

## Defined by Water

This well developed technique, which results from the use of water within the moulding and demoulding process, adds character and individuality to every paver. The pavers are produced unsanded, adding to the tactile impression of the landscaping.

## Flexible Performance

Waterstruck pavers can be laid either flexibly or using rigid construction. This durable solution is suitable for everything from domestic pedestrian to heavy vehicular traffic, unlocking a wealth of potential uses.







# PROJECTS

Wienerberger clay pavers have been used in flagship projects up and down the country - delivering a huge range of styles and aesthetics.

**Smithfield Business District - Ravenna, Mastiek, Siena and Basalt Blends**





**Project:**

Chester Train Station

**Location:**

Chester, Cheshire

**Architect:**

Broadway Malyan

**Products:**

Gala Waterstruck WF

**Laid:**

Flexible

Part of the city's new £100 million Central Business Quarter. Gala Waterstruck pavers have been laid flexibly in a stretcher bond-laying pattern with stack bond detailing, introducing continuity throughout the new development.



**Project:**  
Southwater One

**Location:**  
Telford,  
Shropshire

**Architect:**  
Barton Willmore  
and Gillespies

**Products:**  
Siena, Mastiek &  
Auraton

**Laid:**  
Flexible

With £250 million investment, the project marks a groundbreaking development for Telford. A range of Siena, Mastiek and Auraton pavers selected to bridge the gap between modernist architecture and natural environment.



**Project:**

Kirkstall Forge  
Train Station

**Location:**

Leeds, West  
Yorkshire

**Architect:**

Planit-IE

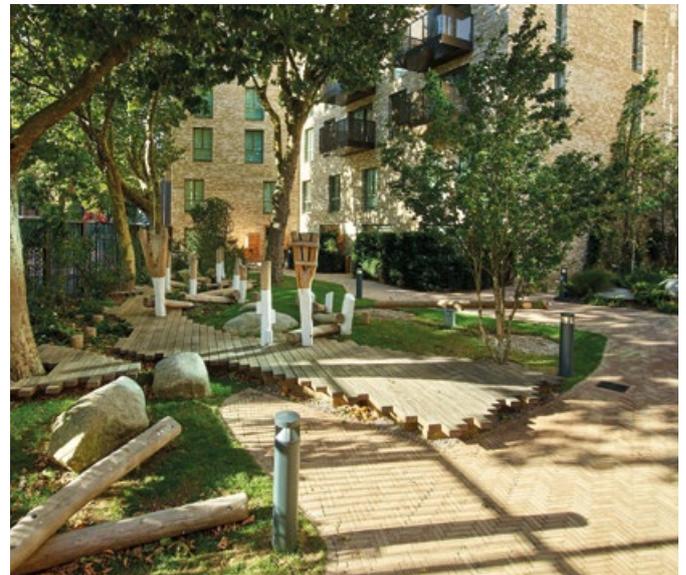
**Products:**

Siena, Basalt &  
Auraton WF

**Laid:**

Rigid

A new transport mixed use hub outside Leeds required a bespoke blend to help bridge contemporary and heritage. The buffs, reds and browns helped define an exciting area newly connected to the city and the region.



**Project:**  
South Gardens,  
Elephant Park

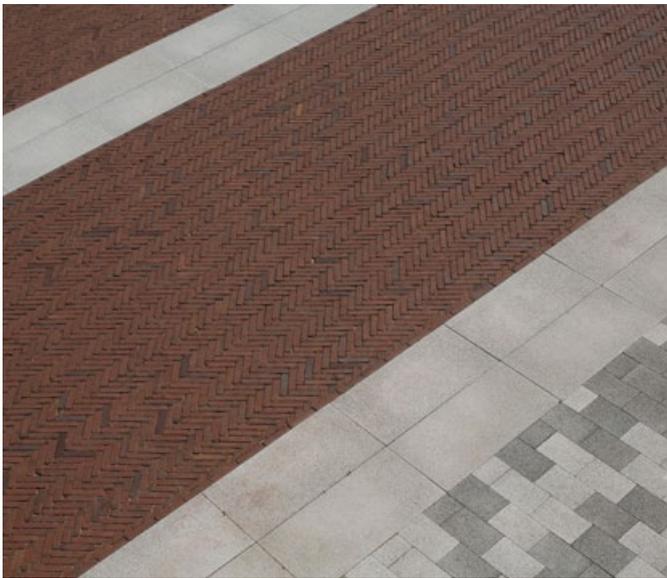
**Location:**  
London

**Architect:**  
Churchman  
Landscapes

**Products:**  
Rosa Waterstruck,  
Siena & Nero

**Laid:**  
Flexible

This development of 360 new homes in Elephant Park used Rosa Waterstruck, Siena and Nero pavers to respond sensitively to the surrounding environment, winning a Landscape Institute President's Award for Best Landscape Scheme of the Year.



**Project:**  
Nottingham Trent  
University, Heart  
of Campus

**Location:**  
Nottingham,  
Nottinghamshire

**Architect:**  
Re-Form  
Landscape  
Architects

**Products:**  
Rosa Waterstruck  
WF

**Laid:**  
Flexible

With £13 million invested, and a footprint of over 4000 square metres, the development on Nottingham Trent University marries old and new. The architect's design has already picked up a RIBA National Award and Regeneration Award.



**Project:**  
Smithfield Central  
Business District

**Location:**  
Hanley,  
Stoke-on-Trent

**Architect:**  
Planit-IE

**Products:**  
Ravenna,  
Mastiek, Siena  
and Basalt

**Laid:**  
Flexible

Part of a £32.7 million development for Stoke-on-Trent, the scheme made use of a combination of Ravenna, Mastiek, Siena and Basalt blends. This celebrated project helped spark wider regeneration of the city, making a mark on the national stage attracting major inward investment.



Pavilion

# PRODUCT PORTFOLIO





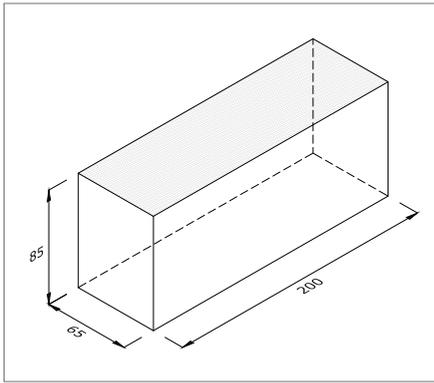
# DUTCH PAVERS

Wienerberger's Dutch collection gives designers and landscape architects the opportunity to achieve a distinctive geometric and unique aesthetic in large areas of urban paving. We offer mixed reds, creams, greys and waterstruck blends.

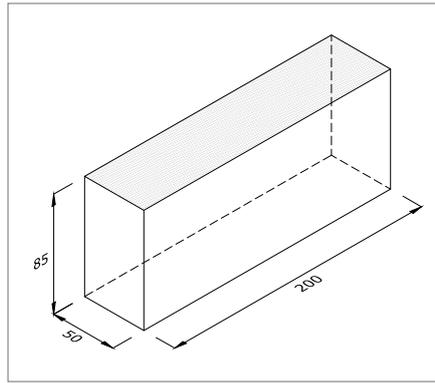
Kirkstall Forge - Siena, Basalt & Auraton



## STANDARD DIMENSIONS



DUTCH PAVER - DF



DUTCH PAVER - WF



Seaburn Seafront, Sunderland - Siena





## BUFF/BUFF MULTI



AURATON DF



AURATON WF



SIENA DF



SIENA WF



VARIA WATERSTRUCK DF



VARIA WATERSTRUCK WF



ZONNEBLOEM WATERSTRUCK DF



ZONNEBLOEM WATERSTRUCK WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	Available *TUMBLER
Auraton DF	200 x 65 x 85	R1	T4	U3	A2	FP100	756	1715	75	✓
Auraton WF	200 x 50 x 85	R1	T4	U3	A2	FP100	1040	1693	100	✓
Siena DF	200 x 65 x 85	R1	T4	U3	A2	FP100	628	1517	75	✓
Siena WF	200 x 50 x 85	R1	T4	U3	A2	FP100	864	1542	100	✓
Varia Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	604	1461	75	✓
Varia Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	752	1382	100	✓
Zonnebloem Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1476	75	✓
Zonnebloem Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓





## RED



BRUNO DF



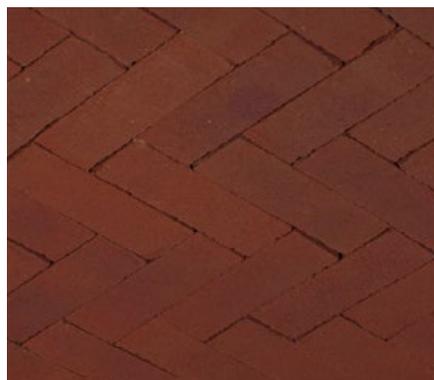
BRUNO WF



BRUNO WATERSTRUCK DF



BRUNO WATERSTRUCK WF



PAVIONA DF



PAVIONA WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	AVAILABLE TUMBLED**
Bruno DF	200 x 65 x 85	R1	T4	U3	A2	FP100	628	1517	75	✓
Bruno WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Bruno Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	620	1461	75	✓
Bruno Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	752	1382	100	✓
Paviona DF	200 x 65 x 85	R1	T4	U3	A2	FP100	628	1517	75	✓
Paviona WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓





## RED MULTI



NOVOTON DF



NOVOTON WF



NOVOTON WATERSTRUCK DF



NOVOTON WATERSTRUCK WF



PADOVA DF



PADOVA WF



ROSA WATERSTRUCK DF



ROSA WATERSTRUCK WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	AVAILABLE TUMBLED**
Novoton DF	200 x 65 x 85	R1	T4	U3	A2	FP100	756	1715	75	✓
Novoton WF	200 x 50 x 85	R1	T4	U3	A2	FP100	1040	1693	100	✓
Novoton Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	604	1490	75	✓
Novoton Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	752	1382	100	✓
Padova DF	200 x 65 x 85	R1	T4	U3	A2	FP100	628	1421	75	✓
Padova WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Rosa Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	588	1451	75	✓
Rosa Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	816	1500	100	✓

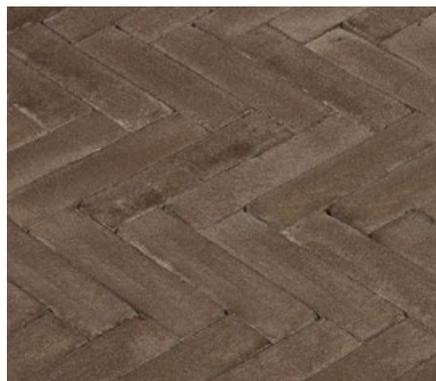




## BROWN MULTI



MASTIEK DF



MASTIEK WF



MASTIEK WATERSTRUCK DF



MASTIEK WATERSTRUCK WF



OLIVA WATERSTRUCK DF



OLIVA WATERSTRUCK WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	AVAILABLE TUMBLED**
Mastiek DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1449	75	✓
Mastiek WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Mastiek Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1476	75	✓
Mastiek Waterstruck WF	200 x 50 x 85	R1	T4	U3	A1	FP100	880	1443	100	✓
Oliva Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	588	1451	75	✓
Oliva Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	816	1500	100	✓





## BROWN MULTI



GALA WATERSTRUCK DF



GALA WATERSTRUCK WF



INCANA WATERSTRUCK DF



INCANA WATERSTRUCK WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	AVAILABLE TUMBLED**
Gala Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	588	1451	75	✓
Gala Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	816	1500	100	✓
Incana Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	588	1451	75	✓
Incana Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	816	1500	100	✓





## GREYS AND BLACKS



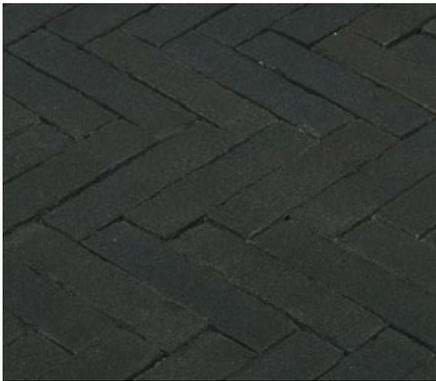
BASALT DF



BASALT WF



NERO DF



NERO WF



NERO WATERSTRUCK DF



NERO WATERSTRUCK WF



OMBER DF



OMBER WF

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>	AVAILABLE TUMBLED**
Basalt DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1476	75	✓
Basalt WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Nero DF	200 x 65 x 85	R1	T4	U3	A2	FP100	628	1550	75	✓
Nero WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Nero Waterstruck DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1476	75	✓
Nero Waterstruck WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓
Omber DF	200 x 65 x 85	R1	T4	U3	A2	FP100	640	1660	75	✓
Omber WF	200 x 50 x 85	R1	T4	U3	A2	FP100	880	1443	100	✓



# ALDER UWF PAVERS

The characteristic features of the UWF range include a tumbled edge with sanded or waterstruck textures. The range is available in tones of red, brown, lighter greys and buff pastel shades to blend perfectly within a variety of surroundings.



## ALDER UWF



ALFATON UWF TUMBLED



ARES UWF TUMBLED



ATLAS UWF TUMBLED



LOTIS UWF TUMBLED



RUSTON UWF TUMBLED



SUPRATON UWF TUMBLED



TRITON UWF TUMBLED

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Alfaton UWF Tumbled	200 x 50 x 65	R1	T4	U3	A2	FP100	960	1250	100
Ares UWF Tumbled	200 x 50 x 65	R1	T4	U3	A2	FP100	960	1467	100
Atlas UWF Tumbled	200 x 50 x 65	R1	T4	U3	A2	FP100	960	1391	100
Lotis UWF Tumbled	200 x 50 x 65	R1	T4	U3	A2	FP100	960	1380	100
Ruston UWF Tumbled	200 x 50 x 65	R1	T4	U3	A1	FP100	960	1249	100
Supraton UWF Tumbled	200 x 50 x 65	R1	T4	U3	A1	FP100	960	1249	100
Triton UWF Tumbled	200 x 50 x 65	R1	T4	U3	A2	FP100	960	1380	100



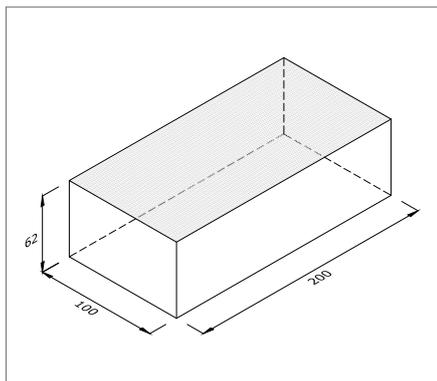
# 62MM RANGE

A traditional, rectangular clay paver that's both practical and versatile, our paver is renowned for its durability and range of colours - giving the flexibility to work across a multitude of environments or landscapes.

Brighton Seafront - Hannover Buff



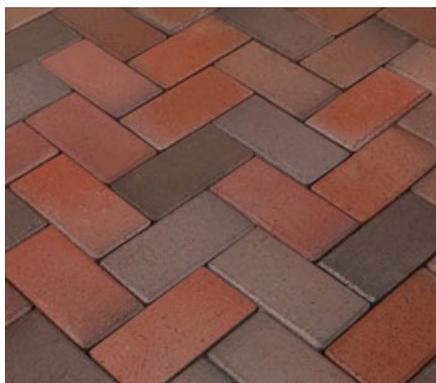
## 62MM RANGE



62MM PAVER



BOCHUM ORANGE MULTI 62MM\*



DORTMUND DARK MULTI 62MM\*



ESSEN RED 62MM\*



HAMBURG BUFF MULTI 62MM



HANNOVER BUFF BRINDLED 62MM\*

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Bochum Orange Multi 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50
Dortmund Dark Multi 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50
Essen Red 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50
Hamburg Buff Multi 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50
Hannover Buff Brindled 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50

\*Also available in 52mm



## 62MM RANGE



BAGGERIDGE MULTI BRINDLED  
DRAGFACED CHAMFERED



BAGGERIDGE BLUE DRAGFACED  
CHAMFERED



BAGGERIDGE BLUE SQUARE EDGED  
BLUE



MUNSTER RED BRINDLED 62MM\*

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Baggeridge Blue Dragfaced Chamfered	200 x 100 x 62	R1	T4	U3	A3	FP100	400	1129	50
Baggeridge Multi Brindled Dragfaced Chamfered	200 x 100 x 62	R1	T4	U3	A3	FP100	400	1133	50
Baggeridge Blue Square Edged Blue	200 x 100 x 62	R1	T4	U3	A3	FP100	400	1129	50
Munster Red Brindled 62mm	200 x 100 x 62	R1	T4	U3	A3	FP100	560	1568	50

\*Also available in 52mm





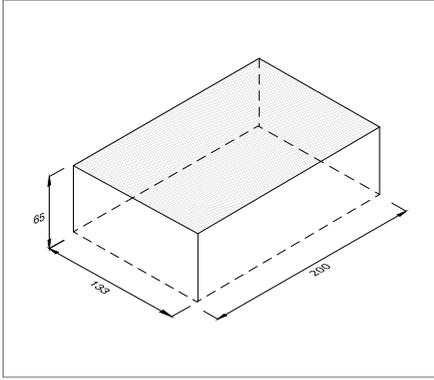
# BAGGERIDGE PAVERS

Ideal for creating a more rustic, worn and weathered appearance, Baggeridge cobbles are perfect for both domestic and commercial applications.

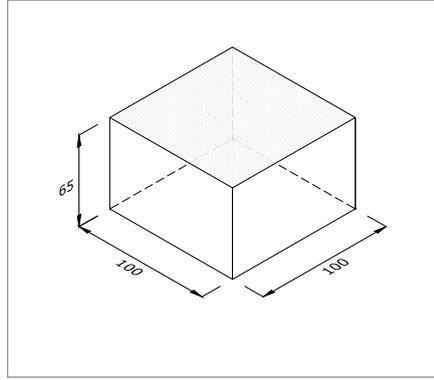
**Barton Turns Marina - Vintage Tumbled Blue Brindled**



## BAGGERIDGE



PROMENADE



COBBLES



BAGGERIDGE BLUE DRAGFACED SQUARE EDGED COBBLES \*



BAGGERIDGE BLUE TUMBLED COBBLES †



BAGGERIDGE BLUE PROMENADE SQUARE EDGED



BAGGERIDGE RED PROMENADE SQUARE EDGED



BAGGERIDGE TELFORD PROMENADE SQUARE EDGED

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Baggeridge Blue Dragfaced Square Edged Cobbles*	100 x 100 x 65	R1	T4	U3	A3	FP100	768	1152	100
Baggeridge Blue Tumbled Cobbles†	100 x 100 x 65	R1	T4	U3	A2	FP100	768	845	100
Baggeridge Blue Promenade Square Edged	200 x 133 x 65	R1	T4	U3	A3	FP100	288	1200	37
Baggeridge Red Promenade Square Edged	200 x 133 x 65	R1	T4	U3	A3	FP100	288	1200	37
Baggeridge Telford Promenade Square Edged	200 x 133 x 65	R1	T4	U3	A3	FP100	288	1200	37

\* Baggeridge cobbles have been designed to be split on site.

† Due to the tumbling process these cobbles are already split and may require further dressing prior to laying.

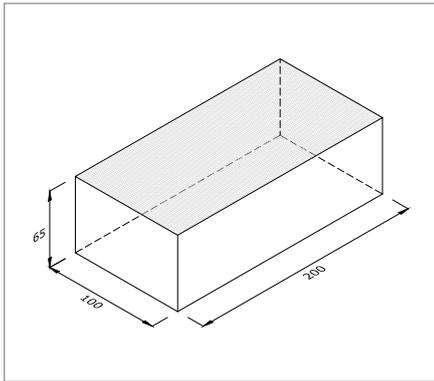


# DIAMOND PATTERN PAVERS

Available in either red or blue, our diamond patterned pavers are famed for their durability and hard wearing surface. The blue is a true blue unique to the clay source of their manufacture.



## DIAMOND PATTERN



DIAMOND PAVER



DIAMOND PATTERN BLUE\*



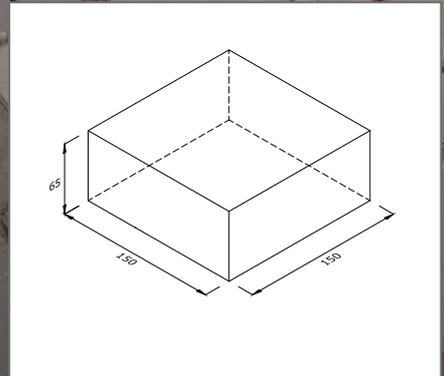
DIAMOND PATTERN RED\*

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Diamond Pattern Blue	200 x 100 x 65	R1	T4	U3	A3	FP100	400	1136	50
Diamond Pattern Red	200 x 100 x 65	R1	T4	U3	A3	FP100	400	1136	50



# KASSEI PAVERS

The Kassei range is all about versatility. Available in a choice of four colours in a tumbled aesthetic with an untumbled option available on request. Kassei pavers have the ability to be laid using a rigid or flexible laying method making them suitable for a range of projects.





## KASSEI



ARES KTF TUMBLED



ASTRA KTF TUMBLED



KASSEI KTF BLEND TUMBLED



LOTIS KTF TUMBLED



ORION KTF TUMBLED

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Kassei Ares KTF Tumbled	150 x 150 x 65	R1	T4	U3	A2	FP100	420	1483	45
Kassei Astra KTF Tumbled	150 x 150 x 65	R1	T4	U3	A2	FP100	420	1483	45
Kassei KTF Blend Tumbled	150 x 150 x 65	R1	T4	U3	A2	FP100	420	1483	45
Kassei Lotis KTF Tumbled	150 x 150 x 65	R1	T4	U3	A2	FP100	420	1483	45
Kassei Orion KTF Tumbled	150 x 150 x 65	R1	T4	U3	A2	FP100	420	1483	45

# SUSTAINABLE URBAN DRAINAGE

**Risk of flooding in urban areas is a growing concern for Governments, local authorities, businesses and individuals. This is because heavy rainfall in recent years has demonstrated the hugely detrimental effect of flooding on property, public spaces, transport networks and the economy.**

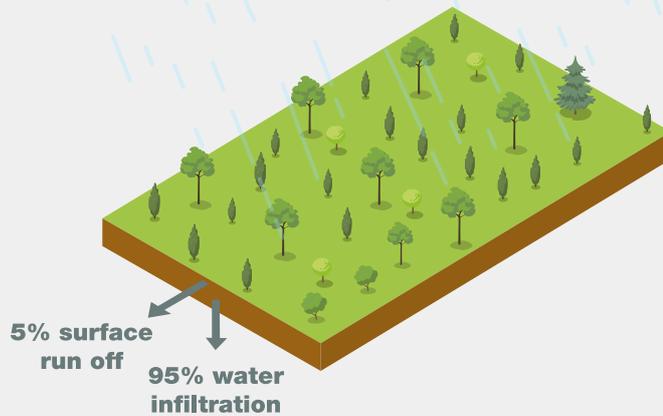
In rural environments, 95% of rainwater is efficiently drawn away from the surface as it is reabsorbed into the ground, taken up by plants and trees, diverted to local waterways or it simply evaporates. This natural water cycle is disrupted in urban environments where there is less green space and permeable ground available. 95% of rainfall becomes excess surface water, which can cause flooding, pollution and erosion problems.



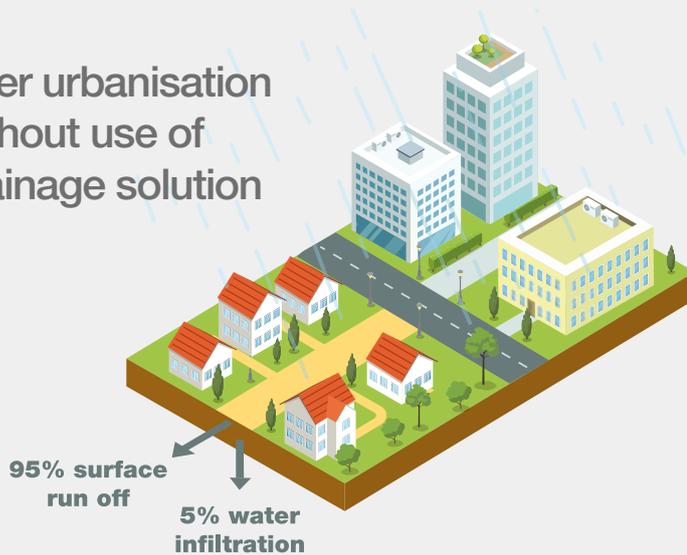
By taking rainwater management and SuDS technology into consideration early on in construction and landscape process, designers can improve the quality of life for those living and working in urban areas for years to come. This is a legal requirement and therefore everyone's responsibility in the landscape planning process.

To enable urban areas to cope with severe rainfall, Sustainable Urban Drainage Systems (SuDS) technology, such as permeable paving solutions, should be incorporated so surface water runoff can be controlled or harvested more effectively.

## Before urbanisation



## After urbanisation without use of drainage solution



## With permeable pavers

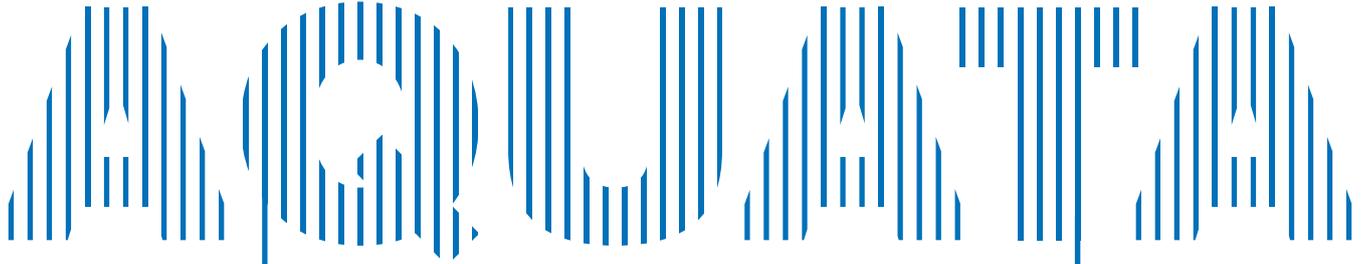




# PERMEABLE PAVING



# INTRODUCING



**The new Aquata range of permeable clay pavers demonstrate that function and beautiful landscape design can go hand in hand.**

The successful drainage of excess surface water is a huge problem in urban areas where there is little green space and permeable ground. Aquata pavers offer a solution to this by providing a controlled method of draining away rainwater, whilst also embodying the performance and aesthetics of our standard clay pavers.

The purpose of Aquata pavers as an effective water drainage solution does not affect their versatility as a high-design landscaping option for commercial and domestic projects. Available in four colours – black, brown, grey and red – these durable Dutch style pavers can be laid in an array of patterns and mixed into stunning colour blends that will not fade.

Aquata pavers have been expertly engineered to encompass all the aesthetic appeal of the ever-popular Dutch style paver, whilst offering a high-performance water drainage solution. One hectare of Aquata pavers allows 20,000 litres per second per hectare to infiltrate through the joints of the pavers into the ground.

By providing designers with a permeable solution in a natural clay product, schemes can benefit from a strong, durable, colour through and low maintenance hard landscaping material. Available in a range of natural shades and offering design versatility thanks to the variety of possible laying patterns, colourfast Aquata clay pavers will keep their vibrant and rich tones even after exposure to extreme weather conditions.



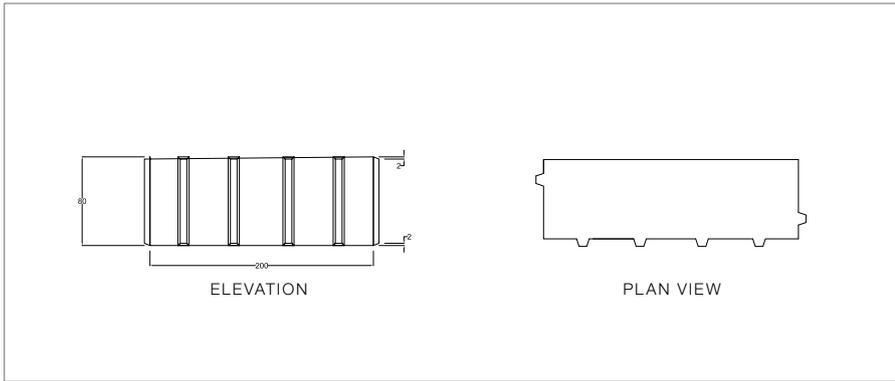


# AQUATA PAVERS

The Aquata range is our sustainable solution for rainwater and surface runoff management. These Dutch style pavers are precision engineered to drastically increase water re-absorption, but without losing the versatile laying options, colour fastness and durability expected of standard clay pavers.



# AQUATA



AQUATA BLACK



AQUATA BROWN



AQUATA GREY



AQUATA RED

## NEW DUTCH STYLE CLAY PAVER

SuDS is a vital solution to the drainage problems inherent in the modern urban environment. Our Aquata clay pavers incorporate SuDS (Sustainable Urban Drainage System) technology to help eliminate the problems that urban environments encounter as a result of severe rainfall and inadequate water drainage provisions.

The design of our Aquata paver features large vertical nibs which allow for the free flow of water through 6mm thick joints into the terrain below. A one-hectare area of Aquata pavers allows 20,000 litres of water per second per hectare to drain through to the ground, so water does not sit on the surface and contribute to flooding.

More information on SuDS and why permeable paving has become an essential part of urban landscape design can be found at [www.wienerberger.co.uk](http://www.wienerberger.co.uk)

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Aquata Black	200 x 65 x 80	R1	T4	U3	A2	FP100	600	1380	70
Aquata Brown	200 x 65 x 80	R1	T4	U3	A2	FP100	600	1380	70
Aquata Grey	200 x 65 x 80	R1	T4	U3	A2	FP100	600	1380	70
Aquata Red	200 x 65 x 80	R1	T4	U3	A2	FP100	600	1380	70

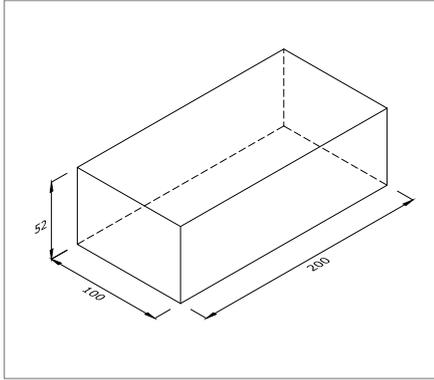


# SYCAMORE RANGE

A brand new range with a profile designed to complement domestic and light traffic environments. With 12 colours to choose from, any architectural style or reference can be reflected with efficiency and ease of installation in mind.

**Bochum Orange Multi**

## SYCAMORE RANGE



SYCAMORE RANGE



ARES 52MM



BOCHUM ORANGE MULTI 52MM\*



BREMEN BROWN 52MM\*



DORTMUND DARK MULTI 52MM\*



ESSEN RED 52MM\*



HANNOVER BUFF BRINDLED 52MM\*

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Ares 52mm	200 x 100 x 52	R1	T4	U3	A1	FP100	624	1525	50
Bochum Orange Multi 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Bremen Brown 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Dortmund Dark Multi 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Essen Red 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Hannover Buff Brindled 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50

\*Also available in 62mm

## SYCAMORE RANGE



KELBRA 52MM



LOTIS 52MM



MUNSTER RED BRINDLED 52MM\*



NORDEN MULTI 52MM



OLSBURG 52MM



SAXONY MULTI 52MM

\*Also available in 62mm

PRODUCT NAME	WORK SIZE	DIMENSIONAL DEVIATION (RANGE)	MEAN TRANSVERSE BREAKING LOAD	SRV	ABRASION	DURABILITY	PACK SIZE	TYPICAL PACK WEIGHT (kg)	QUANTITY PER m <sup>2</sup>
Kelbra 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	630	1530	50
Lotis 52mm	200 x 100 x 52	R1	T4	U3	A1	FP100	624	1523	50
Munster Red Brindled 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Norden Multi 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	665	1530	50
Olsburg 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	468	1076	50
Saxony Multi 52mm	200 x 100 x 52	R1	T4	U3	A3	FP100	468	1076	50



Kelbra 52mm

# ACCESSORIES

We supply a comprehensive range of accessories to enhance commercial design schemes both aesthetically and functionally.

All accessories are engineered to the exacting standards of our core paving portfolio, and boast the same characteristic strength, durability and aesthetic value.

## **RANGE**

A full selection of contrasting and complementary colours that spans deterrent pavers, infill units, channel units, step units and units for assorted kerb types.

## **PURPOSE MADE SPECIALS**

With early involvement in design and specification, we can provide bespoke products for any purpose. Please contact our head office for more information on 0161 491 8200.

## **AVAILABILITY**

Wienerberger holds stock, but the accessories may be on extended delivery during periods of high demand. Therefore, we advise that customers order as early as possible to ensure the products can be supplied in line with installation and construction programmes.

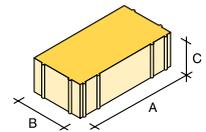
# MARKER PAVERS

Marker pavers are standard paving units that have been developed by Wienerberger for use in a wide range of applications, including: indicating traffic restrictions, marking car bays, and where the use of naturally contrasting paver colours is not permitted. These units are factory coated in yellow or white and treated with an anti-skid dressing.

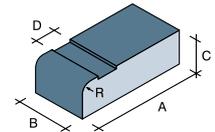
To support the visually impaired, specially designed Step Marker Pavers provide a means of highlighting step nosings and are available in red or blue to complement paving and supplied for on-site application of infill grout by the contractor.



**Yellow Marker Paver - Chamfered (also available in white)**  
**M.2**



M.1/M.2  
Marker Paver\* -  
Square Edged  
or Chamfered



M.3  
Step Marker -  
Supplied ready  
for on-site  
grouting

\* The life of the coating will depend upon conditions of use

## Marker Pavers: Suitable for:

- Trafficked Highways
- Definition or Parking Bays
- Locations where high visibility indicators are required

## Step Marker Paver (also available in red)

**M.3**

### MARKER PAVERS - DIMENSIONS (mm)

Code	Type	A	B	C	D	R
M.1	Marker Paver* - Square-edged	200	100	65	-	-
M.2	Marker Paver* - Chamfered	200	100	65	-	-
M.3	Step Marker Paver	215	102	65	55	25

# DETERRENT PAVERS



**Slip-top Deterrent Paver  
D.1**



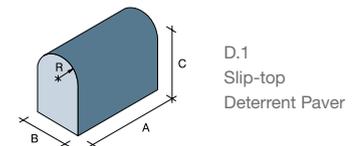
**Sharp-top Deterrent Paver  
D.2**

Offering various levels of deterrence to restrict or prevent use by pedestrians, bicycles and supermarket trolleys or to discourage vehicle over-run, Deterrent Pavers are generally laid with alternating rows, or larger areas of standard pavers. They can also contribute to the overall aesthetic impact of a scheme through the contrast of light and shade afforded by their profiles, coupled with the use of colour.

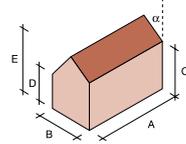
Note: In the interests of user safety, careful consideration should be given to the design and location of deterrent features.



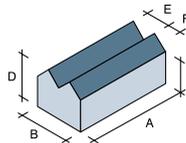
**Stretcher Ridged Deterrent Paver and Header Ridged Deterrent Paver  
D.4 & D.3**



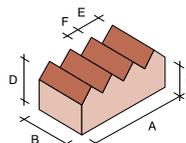
D.1  
Slip-top  
Deterrent Paver



D.2  
Sharp-top  
Deterrent Paver



D.3  
Header Ridged  
Deterrent  
Paver



D.4  
Stretcher  
Ridged  
Deterrent Paver

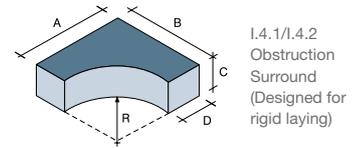
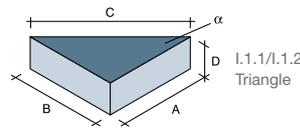
## DETERRENT PAVERS - DIMENSIONS (mm)

Code	Type	A	B	C	D	E	F	R	α
D.1	Slip-top Deterrent Paver	200	102	150	-	-	-	51	-
D.2	Sharp-top Deterrent Paver	200	102	114	83	150	-	-	45°
D.3	Header Ridged Deterrent Paver	200	100	65	25	50	25	-	-
D.4	Stretcher Ridged Deterrent Paver	200	100	65	25	50	25	-	-

# INFILL, CHANNEL AND STEP PAVERS

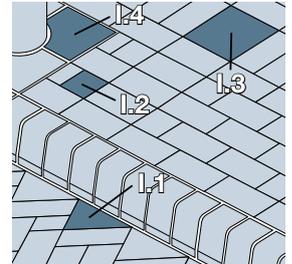
## Infill Units

Offering a neat finish whilst minimising on-site cutting of small pieces, Infill Units are positioned adjacent to edge restraints or obstructions in a flexibly constructed pavement. They are available in blues and reds, with smooth or dragfaced surface textures to complement our full range of pavers.



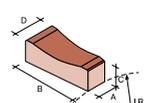
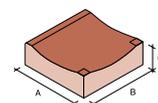
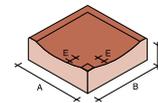
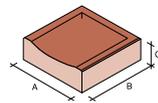
INFILL UNITS - DIMENSIONS (mm)									
Code	Type	Edge Detail	A	B	C	D	E	R	$\alpha$
I.1.1	Triangle	Square-edged	187	187	264	65	-	-	45°
I.1.2	Triangle	Chamfered	187	187	264	65	-	-	45°
I.4.1	Obstruction Surround	Square-edged	194	194	65	-	-	varies to order	
I.4.2	Obstruction Surround	Chamfered	194	194	65	-	-	varies to order	

The radius on Obstruction Surrounds should not exceed 140mm and should be specified 10mm larger than the obstruction radius. Non-circular Obstruction Surrounds are available to order. Infill units are available either square-edged or chamfered.



## Channel Units

Typically used to direct surface water run-off to suitable outlets, these Channel Units feature a dished profile, which is compatible with popular dished gully outlets.



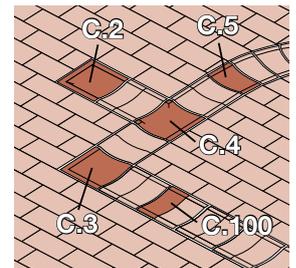
C.2 Channel - Stop End

C.3 Channel - Corner

C.5 Radius Channel

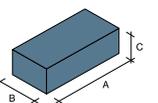
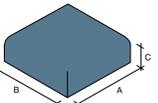
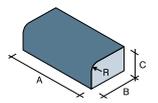
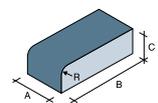
C.4 Channel - T-Junction

CHANNEL UNITS - DIMENSIONS (mm)								
Code	Type	A	B	C	D	E	I.R. Internal Radius	Approx No. per ¼ Circle
C.100	Channel	100	200	65	12	20	-	-
C.200	Channel	200	200	65	12	20	-	-
C.2	Channel Stop End	200	200	65	-	-	-	-
C.3	Channel Corner	200	200	65	-	-	-	-
C.4	Channel T-Junction	200	200	65	-	-	-	-
C.5.1	Radius Channel	61	200	65	90	-	500	11
C.5.2	Radius Channel	74	200	65	90	-	1000	19
C.5.3	Radius Channel	78	200	65	90	-	1500	27
C.5.4	Radius Channel	81	200	65	90	-	2000	35
C.5.5	Radius Channel	82	200	65	90	-	2500	43



## Step Units

Nosing Units feature rounded leading edges to minimise chipping, whilst Riser/Tread make-up units are faced on two headers, one stretcher and one bed face. Tactile Pavers can be used adjacent to flights of steps and step markers to highlight step nosings for the visually impaired.



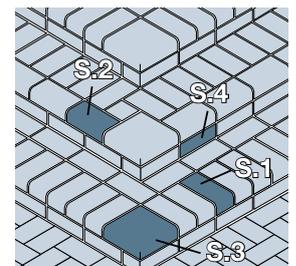
S.1 Header Nosing

S.2 Stretcher Nosing

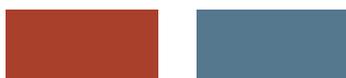
S.3.2 Corner Nosing

S.4 Riser/Tread Make-up

STEP UNITS - DIMENSIONS (mm)					
Code	Type	A	B	C	R
S.1	Header Nosing	102	215	65	25
S.2	Stretcher Nosing	215	105	65	25
S.3.1	Corner Nosing	215	102	65	25
S.3.2	Corner Nosing	215	215	65	25
S.4	Riser/Tread Make-up	215	102	65	-



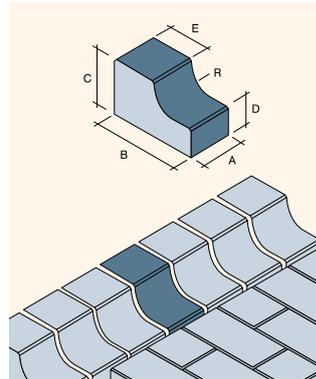
Available in red and blue



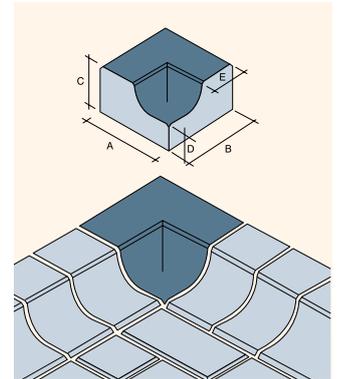
# KERBS

## Kerb Units

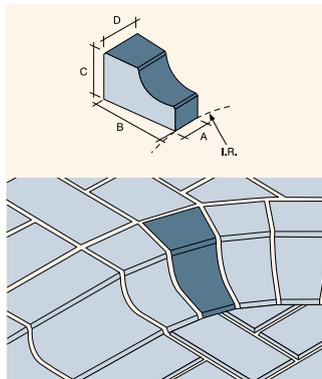
Adding visual definition to an area, kerbs in a paving scheme perform a number of functions including creating edge restraint details, delineating areas for vehicular and pedestrian use, and deterring over-riding by vehicles. Allowing kerbs to be constructed to suit the demands of anticipated levels and types of traffic, while maintaining the aesthetic coherence of a scheme, Kerb Units are offered in a choice of profile and depth of upstand, with units to achieve crossovers, corners and radii.



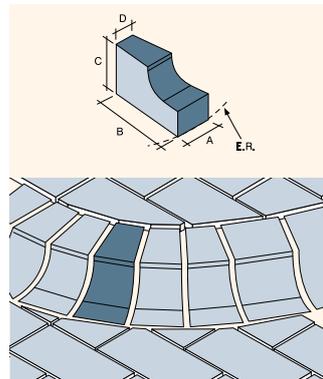
**BK.100**  
Boot Kerb



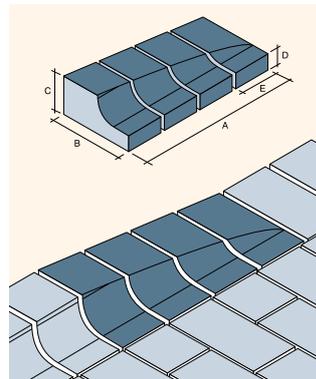
**BK.1.9**  
Boot Kerb Internal Corner



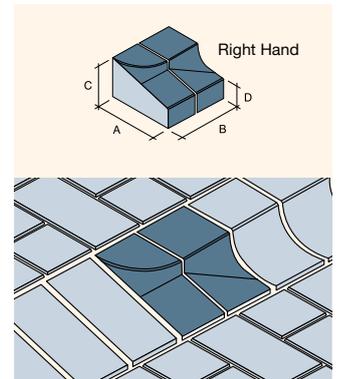
**BKI.11**  
Internal Radius Boot Kerb



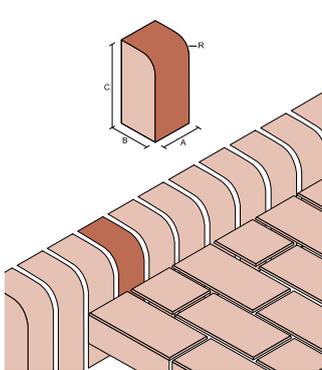
**BKE.12**  
External Radius Boot Kerb



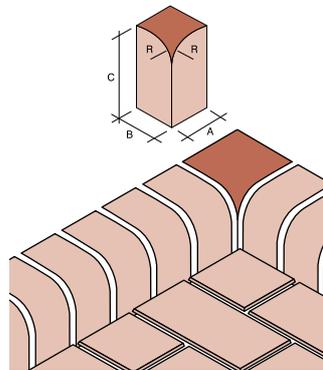
**BK.13** (left & right hand)  
Boot Drop Kerb Set



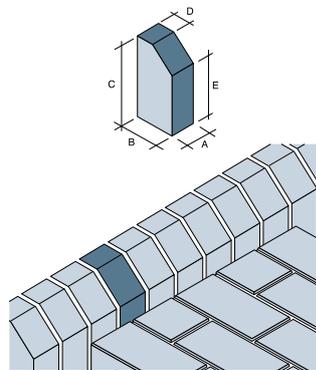
**BK.15** (left & right hand)  
Boot to Crossover Transition



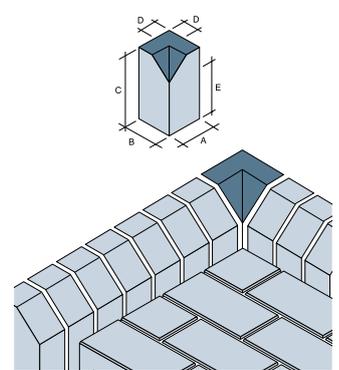
**BN.100**  
Single Bullnose



**BNI.2**  
Single Bullnose Internal Return On End



**AN.100**  
Single Cant

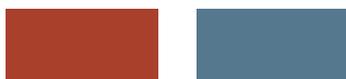


**ANI.1**  
Single Cant Internal Return On End

## Boot, Cant & Bullnose Kerbs

The Boot Kerb should be laid in a vertical orientation for heavily trafficked areas, although it can also be laid horizontally for use in lightly trafficked areas. The units may also act as a transition between paving and brickwork, with brickwork being built directly on them. Cant and Bullnose Kerbs are only suitable for very lightly trafficked areas. Purpose made returns and drop sets are available to order.

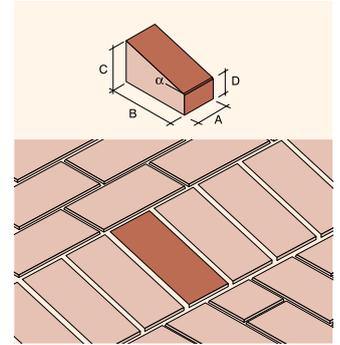
## Available in red and blue



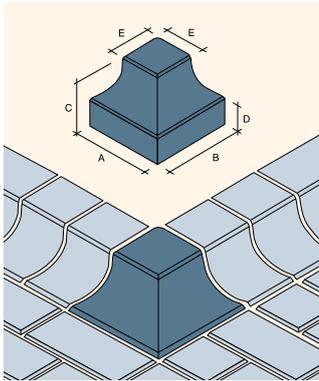
# KERBS

## Crossover Kerbs

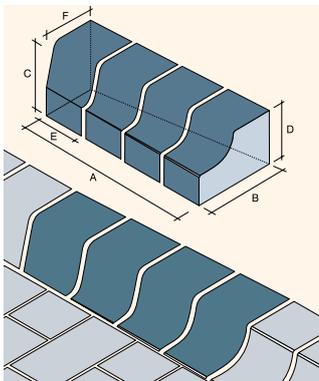
Typically used to facilitate access for vehicular or other wheeled traffic where the general run of kerbing is an upstand kerb, the Crossover Kerb may also be used as a kerb in its own right. Alternative angles of slope are available to order.



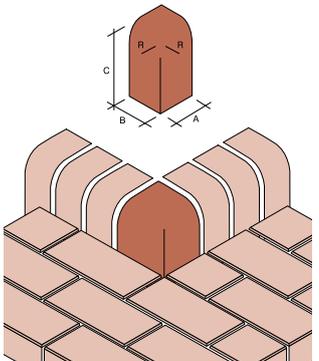
CK.1  
Crossover Kerb



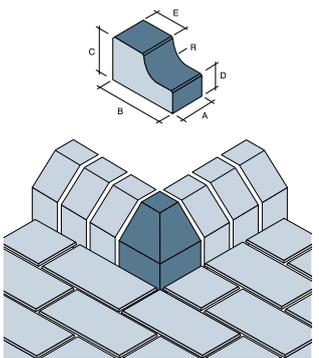
BKE.10  
Boot Kerb External Corner



BK.16 (left & right hand)  
Boot to Half Batter Kerb Transition



BNE.1  
Single Bullnose External Return On End



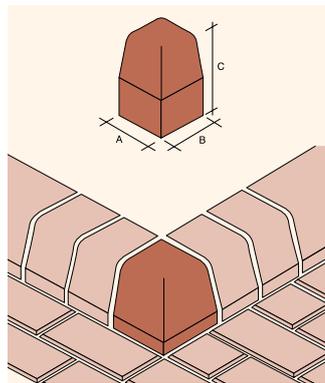
ANE.1  
Single Cant External Return On End

BOOT, CANT, BULLNOSE KERBS & CROSSOVER KERBS - DIMENSIONS (mm)											
Code	Type	A	B	C	D	E	F	R	Radius I.R./E.R.	Approx No. per ¼ Circle	α
BK.100	Boot Kerb	100	200	125	65	103	-	50	-	-	-
BK.200	Boot Kerb	200	200	125	65	103	-	50	-	-	-
BKI.9	Boot Kerb Internal Corner	200	200	125	65	103	-	-	-	-	-
BKE.10	Boot Kerb External Corner	200	200	125	65	103	-	-	-	-	-
BKI.11.1	Boot Kerb Internal Radius	61	200	125	90	-	-	-	500	11	-
BKI.11.2	Boot Kerb Internal Radius	74	200	125	90	-	-	-	1000	19	-
BKI.11.3	Boot Kerb Internal Radius	78	200	125	90	-	-	-	1500	27	-
BKI.11.4	Boot Kerb Internal Radius	81	200	125	90	-	-	-	2000	35	-
BKI.11.5	Boot Kerb Internal Radius	83	200	125	90	-	-	-	2500	43	-
BKE.12.1	Boot Kerb External Radius	90	200	125	49	-	-	-	500	8	-
BKE.12.2	Boot Kerb External Radius	90	200	125	70	-	-	-	1000	16	-
BKE.12.3	Boot Kerb External Radius	90	200	125	77	-	-	-	1500	24	-
BKE.12.4	Boot Kerb External Radius	90	200	125	80	-	-	-	2000	32	-
BKE.12.5	Boot Kerb External Radius	90	200	125	82	-	-	-	2500	39	-
BK.13	Boot Drop Kerb Set	430	200	125	65	100	-	-	-	-	-
BK.15	Boot to Crossover Transition	200	200	125	65	-	-	-	-	-	-
BK.16	Boot To Half Batter Kerb Transition	430	200	170	125	100	125	-	-	-	-
CK.1	Crossover Kerb	100	200	125	65	-	-	-	-	-	17°
AN.5.1	Single Cant	65	102	215	46	159	-	-	-	-	-
AN.5.2	Single Cant	65	102	215	60	173	-	-	-	-	-
AN.200.1	Single Cant	200	100	215	46	159	-	-	-	-	-
AN.200.2	Single Cant	200	100	215	60	173	-	-	-	-	-
SD.2.1	Single Cant Internal Return on End	102	102	215	46	159	-	-	-	-	-
SD.2.2	Single Cant Internal Return on End	102	102	215	60	173	-	-	-	-	-
SD.3.1	Single Cant External Return on End	102	102	215	46	159	-	-	-	-	-
SD.3.2	Single Cant External Return on End	102	102	215	60	173	-	-	-	-	-
BN.1.2	Single Bullnose	65	102	215	25	-	-	-	-	-	-
BN.2.2	Single Bullnose	65	102	215	51	-	-	-	-	-	-
BN200.1	Single Bullnose	200	100	215	25	-	-	-	-	-	-
BN200.2	Single Bullnose	200	100	215	51	-	-	-	-	-	-
BN.8.1	Single Bullnose Internal Return On End	102	102	215	25	-	-	-	-	-	-
BN.8.2	Single Bullnose Internal Return On End	102	102	215	51	-	-	-	-	-	-
K.22.1	Single Bullnose External Return On End	102	102	215	25	-	-	-	-	-	-
K.22.2	Single Bullnose External Return On End	102	102	215	51	-	-	-	-	-	-
DPK23.10	Dual Purpose Kerb	100	150	65	35	95	-	-	25	-	45°
DPK23.20	Dual Purpose Kerb	200	150	65	35	95	-	-	25	-	45°
DPK.24	Dual Purpose Kerb	130	130	100	58	88	-	-	25	-	45°

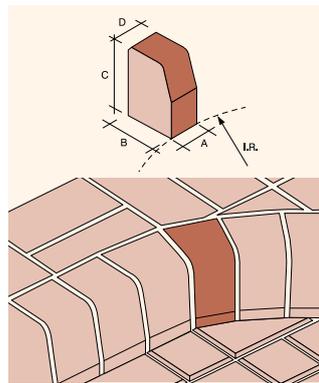
# KERBS

## Half Batter Kerbs

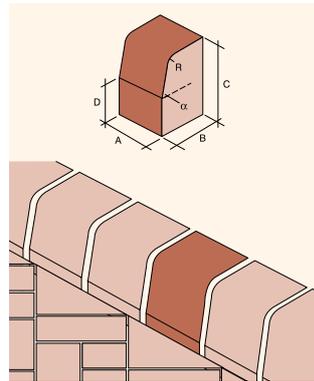
The Half Batter Kerb is intended for vertical installation but may also be laid horizontally depending on the depth of upstand and visual appearance required. In such cases, purpose-made returns and drop sets are available to order.



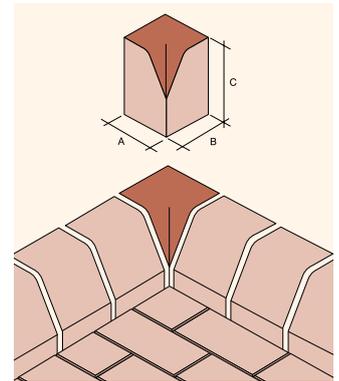
**HBE.3**  
Half Batter Kerb External Corner



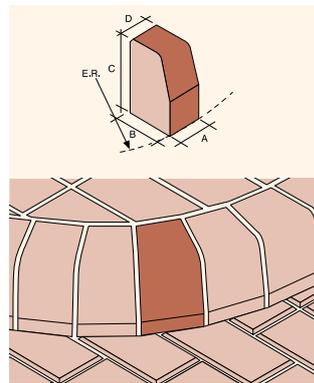
**HBI.4**  
Internal Radius Half Batter Kerb



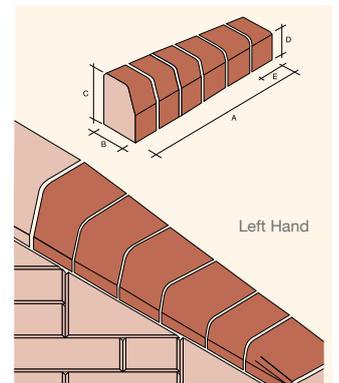
**HB.200**  
Half Batter Kerb



**HBI.2**  
Half Batter Kerb Internal Corner



**HBE.5**  
External Radius Half Batter Kerb



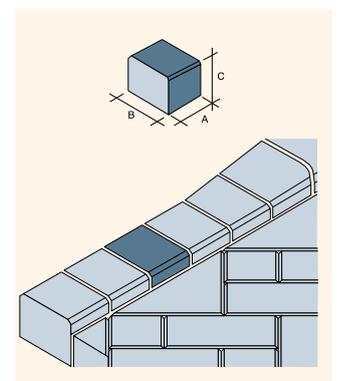
**HB.6** (left & right hand)  
Half Batter Drop Kerb Set

### HALF BATTER AND FLUSH KERBS - DIMENSIONS (MM)

Code	Type	A	B	C	D	E	F	R	Radius I.R./E.R.	Approx No. per ¼ Circle	α
HB.200	Half Batter Kerb	200	100	200	100	-	-	18	-	-	76°
HBI.2	Half Batter Kerb - Internal Corner	100	100	200	-	-	-	-	-	-	-
HBE.3	Half Batter Kerb - External Corner	100	100	200	-	-	-	-	-	-	-
HBI.4.1	Half Batter Kerb - Internal Radius	68	125	200	88	-	-	-	500	10	-
HBI.4.2	Half Batter Kerb - Internal Radius	77	125	200	88	-	-	-	1000	18	-
HBI.4.3	Half Batter Kerb - Internal Radius	74	125	200	81	-	-	-	1500	28	-
HBI.4.4	Half Batter Kerb - Internal Radius	75	125	200	80	-	-	-	2000	37	-
HBI.4.5	Half Batter Kerb - Internal Radius	75	125	200	80	-	-	-	2500	46	-
HBE.5.1	Half Batter Kerb - External Radius	77	125	200	55	-	-	-	500	9	-
HBE.5.2	Half Batter Kerb - External Radius	82	125	200	71	-	-	-	1000	17	-
HBE.5.3	Half Batter Kerb - External Radius	74	125	200	67	-	-	-	1500	28	-
HBE.5.4	Half Batter Kerb - External Radius	75	125	200	70	-	-	-	2000	37	-
HBE.5.5	Half Batter Kerb - External Radius	75	125	200	71	-	-	-	2500	46	-
HB.6	Half Batter Kerb Drop Set	650	125	200	100	100	-	-	-	-	-
FK.7	Flush Kerb	100	125	100	-	-	-	-	-	-	17°

## Flush Kerbs

Typically used at a drop kerb position in conjunction with a Half Batter Drop Kerb Set, the Flush Kerb may also be used as a kerb or edging in its own right.

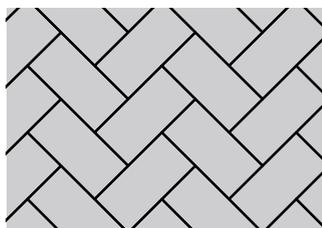


**FK.7**  
Flush Kerb

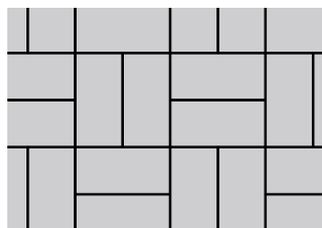
# LAYING PATTERNS

A key part of the creativity and aesthetic potential of clay pavers is in the laying patterns.

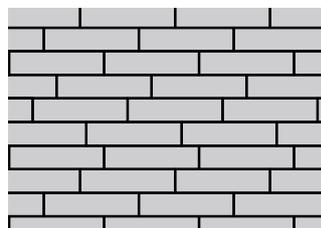
Suggested patterns -



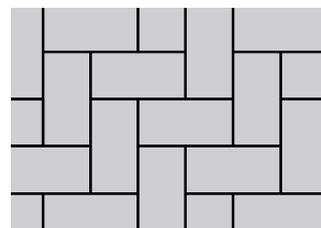
Herringbone 45 degree – Commercial



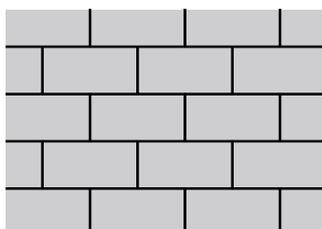
Basket weave (2 face and 3 face) – Pedestrian



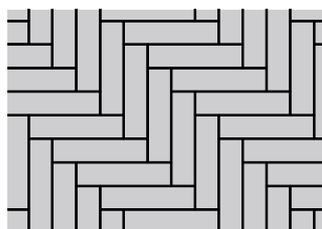
Staggered bond – Pedestrian



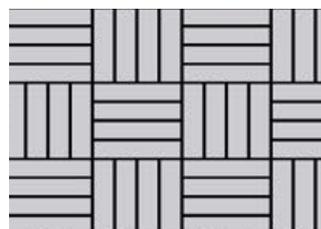
Herringbone 90 degree – Commercial



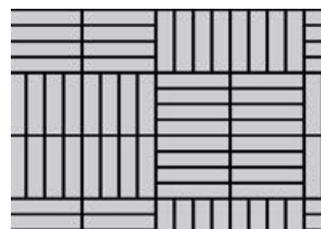
Running bond course – Pedestrian



Chevron



Dutch Pavers WF



Dutch Pavers WF

## REQUESTING A SAMPLE

Interested in a product?

Get a sample delivered to your door.



Brick, paver and roof tile samples can be ordered by using the Product Search function on our website. Simply visit [www.wienerberger.co.uk](http://www.wienerberger.co.uk) and select the product you're interested in, then click the Order Sample button. This will add your selection to your sample basket.

You can then shop around for more or go directly to the sample basket to confirm your order. You will receive a confirmation email and your samples will be sent out to you as soon as possible by our customer services team.

Alternatively you can email us at [samples@wienerberger.co.uk](mailto:samples@wienerberger.co.uk) or call our customer service team on 0845 303 2524.



# INSTALLATION AND DESIGN GUIDANCE

Technical Characteristics and Properties to BS EN 1344 : 2013. Individual product information available in Paver Index.

### Laying

The sub-grade should be prepared to the engineer's required specification and the sub-base should normally be a well compacted Type 1 to the designed thickness taking into account traffic loadings and suitability of the subgrade.

### Edge Restraint

It is imperative that solid edge restraints are provided along the perimeter of all paved areas to restrict lateral movement (creep) resulting from the action of deceleration and turning forces. They should be adequate to prevent the escape of the bedding course material beneath the paver surface.

When using kerbs ensure the concrete bed/haunch has matured before any compaction is undertaken.

### Cutting Clay Paving

Clay paving should be cut using a multi bladed mechanical paver splitter or bench mounted water cooled power saw to achieve the best finish. Clay paving should not be cut to less than a quarter of the original size along the length of the paver and never cut across the width – when required complimentary fittings and inboard cutting should be used.

### Drainage

Sufficient cross-fall should be provided to prevent standing water on all block paved surfaces.

### Unpacking the Pavers

In order to obtain the correct blend of colour, mix from a minimum of 3 packs. The paver packs require unpacking vertically - not horizontally, layer-by-layer. This will equally

distribute minor size variations of the pavers over the entire pavement, and will help to maintain the correct bond pattern. Damaged or broken pavers must not be used although they can be used as cut pieces for infilling.

### Bedding Course and Paving

Bedding course material for conventional pavements should be naturally occurring sand and should be selected in accordance with the recommendations given in BS7533: Part 3 : 2005 – Code of Practice for Laying Precast Concrete Paving Blocks and Clay Pavers for Flexible Pavements.

Bedding sand is both the strength and weakness of a flexible clay pavement as it provides the interlock that ensures that pavers can accommodate extreme loading.

Bedding course material to be 25-40mm compacted thickness over the specified thickness of sub-base. The use of a geotextile below bedding course to prevent migration of sand may be advisable if the sub-base is open textured.

Pavers should be laid in the designated bond pattern working from an edge restraint or existing laying face edge. Mechanical force should not be used to bring pavers into intimate contact and should be laid such that a joint width of 2 to 5mm forms between each paver with a target joint width of 3mm thus ensuring there is no point contact between units. The laying of any clay paver, with or without nibs, will require the opening or closing up of joints to maintain good lines throughout the work due to the tolerances of a natural clay product.

### Compaction of Pavers

When a sufficient area of pavers has been laid - and before starting the vibration - a fine kiln dried silica jointing sand must be brushed into the joints. The pavers are compacted onto

the sand bed using a vibrating plate compactor with a rubber sole-plate to any avoid damage to the surface.

After compaction, any damaged pavers must be immediately removed and replaced. Any unevenness or differences in height must be adjusted.

### Joint-filling

After compaction, a further application of fine kiln dried silica sand is brushed into the joints until all joints are entirely full. Failure to ensure joints are full before opening up the area to traffic may cause movement and loosening of the paved surface. Upon satisfactory completion traffic may be permitted to use the pavement. Do not use high powered suction cleaners on newly laid areas of flexible paving.

### Maintenance

Wienerberger clay pavers are resistant to chemicals and cleaning fluids. Pavements using clay pavers can be cleaned using biodegradable detergents. Mechanical or high water pressure cleansing operations will require re-sanding of the joints.

For further information please contact the Wienerberger design services team.

# INDEX

Dimensional Deviation Range	Mean Traverse Breaking Load	Unpolished Slip/Skip Resistance	Durability
All R1	All T4	All U3	All FP150

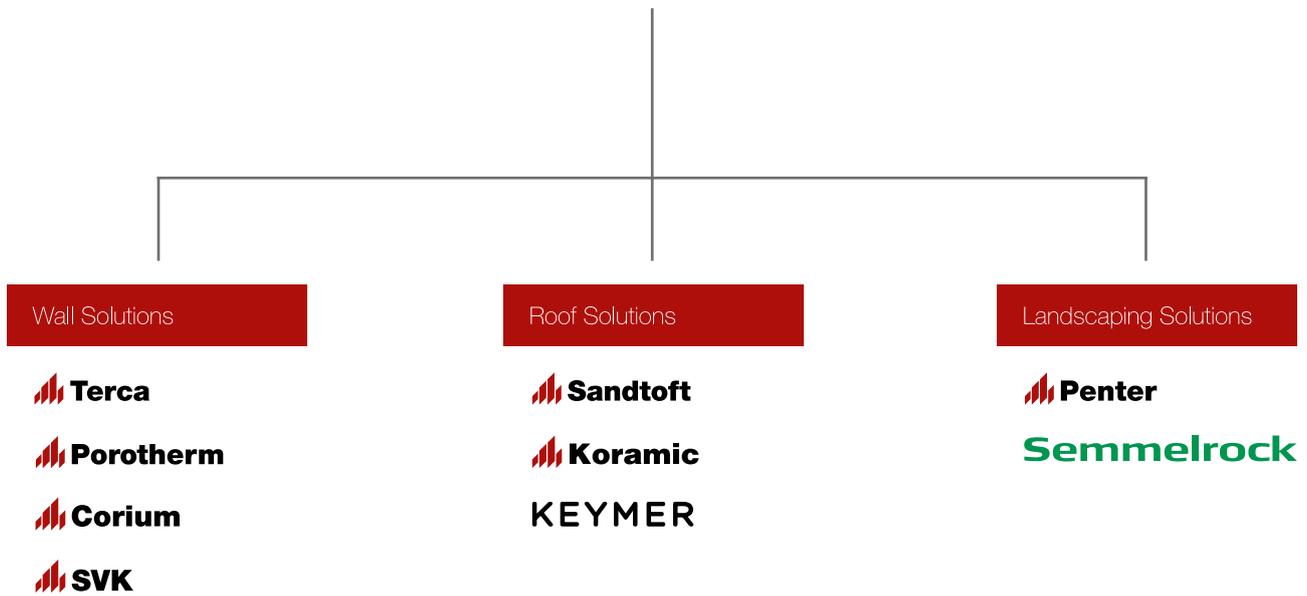
PRODUCT NAME	RANGE	PAGE NUMBER	SUITABLE FOR	WORK SIZE MM	ABRASION	PACK QUANTITY	TYPICAL PACK WEIGHT	QUANTITY PER M <sup>2</sup>	LOCATION/ COLLECTION POINT
Alfaton UWF Tumbled	Alder	47		200 x 50 x 65	A1	960	1249	100	Hull/Purfleet
Aquata Black	Aquata	63		200 x 65 x 80	A2	600	1405	70	Hull/Purfleet
Aquata Brown	Aquata	63		200 x 65 x 80	A2	600	1405	70	Hull/Purfleet
Aquata Grey	Aquata	63		200 x 65 x 80	A2	600	1405	70	Hull/Purfleet
Aquata Red	Aquata	63		200 x 65 x 80	A2	600	1405	70	Hull/Purfleet
Ares - 52mm	Sycamore	65		200 x 100 x 52	A1	624	1525	50	Kingsbury
Ares UWF Tumbled	Alder	47		200 x 50 x 65	A2	960	1467	100	Hull/Purfleet
Atlas UWF Tumbled	Alder	47		200 x 50 x 65	A2	960	1391	100	Hull/Purfleet
Auraton DF	Dutch	35		200 x 65 x 85	A2	756	1715	75	Hull/Purfleet
Auraton WF	Dutch	35		200 x 50 x 85	A2	1040	1693	100	Hull/Purfleet
Baggeridge Blue Dragfaced Chamfered	Baggeridge	50		200 x 100 x 62	A3	396	1129	50	Kingsbury
Baggeridge Blue Dragfaced Square Edged Cobbles	Baggeridge	53		100 x 100 x 65	A3	768	1152	100	Kingsbury
Baggeridge Blue Promenade Square Edged	Baggeridge	53		200 x 133 x 65	A3	288	1200	37	Kingsbury
Baggeridge Blue Square Edged Blue	Baggeridge	50		200 x 100 x 62	A3	400	1129	50	Kingsbury
Baggeridge Blue Tumbled Cobbles	Baggeridge	53		100 x 100 x 65	A2	768	1152	100	Smeed Dean
Baggeridge Multi Brindled Dragfaced Chamfered	Baggeridge	50		200 x 100 x 62	A3	400	1133	50	Kingsbury
Baggeridge Red Promenade Square Edged	Baggeridge	53		200 x 133 x 65	A3	288	1200	37	Kingsbury
Baggeridge Telford Promenade Square Edged	Baggeridge	53		200 x 133 x 65	A3	288	1200	37	Kingsbury
Basalt DF	Dutch	45		200 x 65 x 85	A2	640	1476	75	Hull/Purfleet
Basalt WF	Dutch	45		200 x 50 x 85	A2	880	1443	100	Kingsbury
Bochum Orange Multi	62mm	49		200 x 100 x 62	A3	560	1568	50	Kingsbury
Bochum Orange Multi - 52mm	Sycamore	65		200 x 100 x 52	A3	665	1449	50	Kingsbury
Bremen Brown - 52mm	Sycamore	65		200 x 100 x 52	A3	665	1530	50	Kingsbury
Bruno DF	Dutch	37		200 x 65 x 85	A2	628	1517	75	Hull/Purfleet
Bruno Waterstruck DF	Dutch	37		200 x 65 x 85	A2	620	1461	75	Hull/Purfleet
Bruno Waterstruck WF	Dutch	37		200 x 50 x 85	A2	752	1382	100	Hull/Purfleet
Bruno WF	Dutch	37		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet
Diamond Pattern Blue	Baggeridge	55		200 x 100 x 65	A3	400	1136	50	Kingsbury
Diamond Pattern Red	Baggeridge	55		200 x 100 x 65	A3	400	1136	50	Kingsbury
Dortmund Dark Multi	62mm	49		200 x 100 x 62	A3	560	1568	50	Kingsbury
Dortmund Dark Multi - 52mm	Sycamore	65		200 x 100 x 52	A3	665	1449	50	Kingsbury
Essen Red	62mm	49		200 x 100 x 62	A3	560	1568	50	Kingsbury
Gala Waterstruck DF	Dutch	43		200 x 65 x 85	A2	588	1451	75	Hull/Purfleet
Gala Waterstruck WF	Dutch	43		200 x 50 x 85	A2	816	1500	100	Kingsbury
Hamburg Buff Multi	62mm	49		200 x 100 x 62	A3	560	1568	50	Kingsbury
Hannover Buff Brindled	62mm	49		200 x 100 x 62	A3	560	1568	50	Kingsbury
Hannover Buff Brindled - 52mm	Sycamore	65		200 x 100 x 52	A3	665	1449	50	Kingsbury
Incana Waterstruck DF	Dutch	43		200 x 65 x 85	A2	588	1451	75	Hull/Purfleet
Incana Waterstruck WF	Dutch	43		200 x 50 x 85	A2	816	1500	100	Hull/Purfleet
Kassei Ares KTF Tumbled	Kassei	57		150 x 150 x 65	A2	420	1483	45	Kingsbury
Kassei Astra KTF Tumbled	Kassei	57		150 x 150 x 65	A2	420	1483	45	Kingsbury

KEY Pedestrian Domestic Car General Light Van Traffic Heavy Traffic

PRODUCT NAME	RANGE	PAGE NUMBER	SUITABLE FOR	WORK SIZE MM	ABRASION	PACK QUANTITY	TYPICAL PACK WEIGHT	QUANTITY PER M <sup>2</sup>	LOCATION/ COLLECTION POINT
Kassei KTF Blend Tumbled	Kassei	57		150 x 150 x 65	A2	420	1483	45	Kingsbury
Kassei Lotis KTF Tumbled	Kassei	57		150 x 150 x 65	A2	420	1483	45	Kingsbury
Kassei Orion KTF Tumbled	Kassei	57		150 x 150 x 65	A2	420	1483	45	Kingsbury
Kelbra Multi – 52mm	Sycamore	66		200 x 100 x 52	A3	630	1450	50	Kingsbury
Lotis - 52mm	Sycamore	66		200 x 100 x 52	A2	624	1523	50	Kingsbury
Lotis UWF Tumbled	Alder	47		200 x 50 x 65	A2	960	1380	100	Hull/Purfleet
Mastiek DF	Dutch	41		200 x 65 x 85	A2	640	1449	75	Hull/Purfleet
Mastiek Waterstruck DF	Dutch	41		200 x 65 x 85	A2	640	1476	75	Hull/Purfleet
Mastiek Waterstruck WF	Dutch	41		200 x 50 x 85	A1	880	1443	100	Hull/Purfleet
Mastiek WF	Dutch	41		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet
Munster Red Brindled	62mm	50		200 x 100 x 62	A3	560	1568	50	Kingsbury
Munster Red Brindled - 52mm	Sycamore	66		200 x 100 x 52	A3	665	1530	50	Kingsbury
Nero DF	Dutch	45		200 x 65 x 85	A2	628	1550	75	Hull/Purfleet
Nero WF	Dutch	45		200 x 50 x 85	A2	880	1443	100	Kingsbury
Nero Waterstruck DF	Dutch	45		200 x 65 x 85	A2	640	1449	75	Hull/Purfleet
Nero Waterstruck WF	Dutch	45		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet
Norden Multi – 52mm	Sycamore	66		200 x 100 x 52	A3	665	1449	50	Kingsbury
Novoton DF	Dutch	39		200 x 65 x 85	A2	756	1715	75	Hull/Purfleet
Novoton Waterstruck DF	Dutch	39		200 x 65 x 85	A2	604	1490	75	Hull/Purfleet
Novoton Waterstruck WF	Dutch	39		200 x 50 x 85	A2	752	1382	100	Hull/Purfleet
Novoton WF	Dutch	39		200 x 50 x 85	A2	1040	1693	100	Hull/Purfleet
Oliva Waterstruck DF	Dutch	41		200 x 64 x 85	A2	640	1421	75	Hull/Purfleet
Oliva Waterstruck WF	Dutch	41		200 x 48 x 85	A2	640	1476	75	Hull/Purfleet
Olsburg - 52mm	Sycamore	66		200 x 100 x 52	A3	468	1077	50	Kingsbury
Omber DF	Dutch	45		200 x 65 x 85	A2	640	1476	75	Hull/Purfleet
Omber WF	Dutch	45		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet
Padova DF	Dutch	39		200 x 65 x 85	A2	628	1517	75	Hull/Purfleet
Padova WF	Dutch	39		200 x 50 x 85	A2	880	1443	100	Kingsbury
Paviona DF	Dutch	37		200 x 65 x 85	A2	628	1517	75	Hull/Purfleet
Paviona WF	Dutch	37		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet
Rosa Waterstruck DF	Dutch	39		200 x 65 x 85	A2	588	1451	75	Hull/Purfleet
Rosa Waterstruck WF	Dutch	39		200 x 50 x 85	A2	816	1500	100	Hull/Purfleet
Ruston UWF Tumbled	Alder	47		200 x 50 x 65	A1	960	1250	100	Hull/Purfleet
Saxony Multi	62mm	66		200 x 100 x 52	A3	468	1077	50	Kingsbury
Siena DF	Dutch	35		200 x 65 x 85	A2	628	1517	75	Hull/Purfleet
Siena WF	Dutch	35		200 x 50 x 85	A2	864	1542	100	Kingsbury
Supraton UWF Tumbled	Alder	47		200 x 50 x 65	A1	960	1250	100	Hull/Purfleet
Triton UWF Tumbled	Alder	47		200 x 50 x 65	A2	960	1380	100	Hull/Purfleet
Varia Waterstruck DF	Dutch	35		200 x 65 x 85	A2	604	1461	75	Hull/Purfleet
Varia Waterstruck WF	Dutch	35		200 x 50 x 85	A2	752	1382	100	Hull/Purfleet
Zonnebloem Waterstruck DF	Dutch	35		200 x 65 x 85	A2	640	1476	75	Hull/Purfleet
Zonnebloem Waterstruck WF	Dutch	35		200 x 50 x 85	A2	880	1443	100	Hull/Purfleet



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