

GARDEN & PLACE

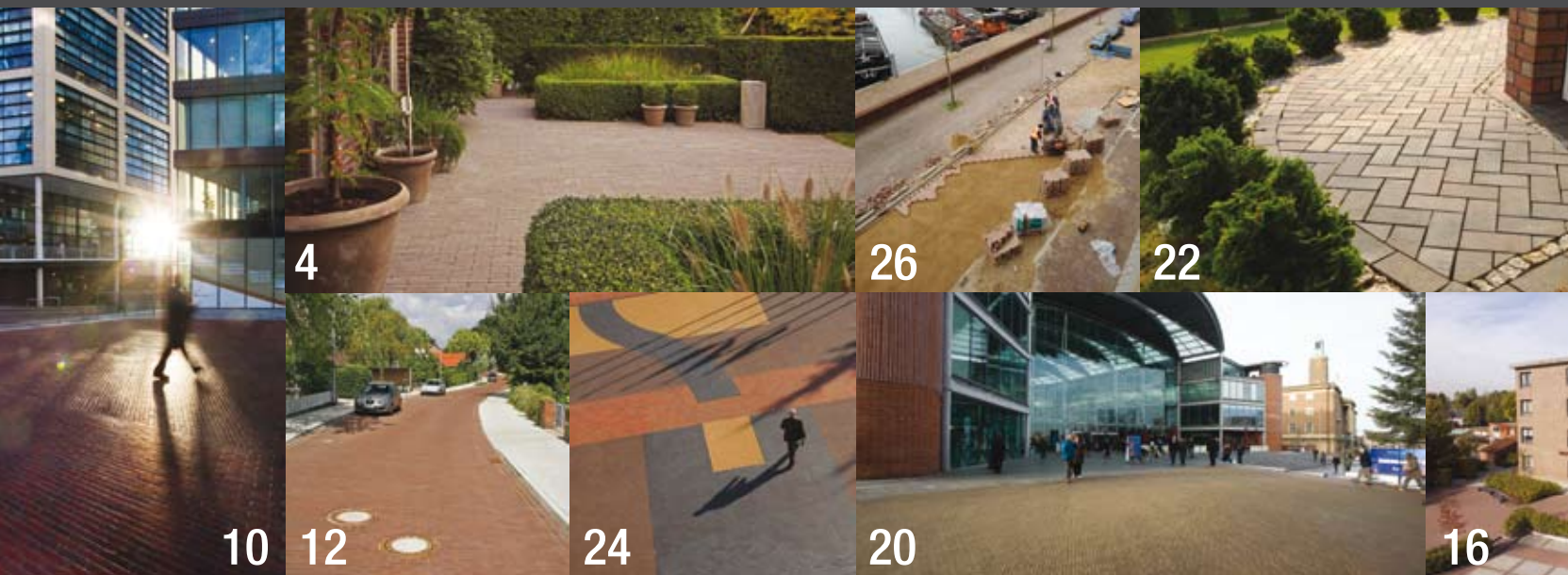

Wienerberger
Building Value

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2010



 **TERCA**



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Dear readers,

The new edition of our international magazine featuring the use of clay in garden and landscape designs comes to you with a fresh, spring-like design. In the following pages, architects, clients and garden designers share their personal experiences of working with clay pavers to create stunning urban, rural, personal and public spaces.

Their exceptional longevity and colour fastness make fired clay pavers equally suited for large-scale, public projects and charming private gardens. Their performance characteristics and aesthetic appeal make them one of the best-loved and most versatile natural building materials available.

Like a fine wine, the high-quality clay paver does not lose any of its qualities over the years, but acquires an attractive and mature patina. And can there be any higher compliment for our products than landscape architects and garden designers using clay pavers to create and enhance their own private oases?

Let yourself be inspired!

With warm regards,

Heimo Scheuch
CEO Wienerberger AG

IMPRINT

Garden & Place
5th edition

Media owner and publisher
Österreichischer Wirtschaftsverlag GmbH,
1050 Vienna

Issuer
Wienerberger AG, 1100 Vienna

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This magazine from **TERCA** is published in German, English, French, Flemish, Polish and Czech.

GARDEN & PLACE is distributed in Germany, Netherlands, Belgium, Denmark, the UK, Estonia, Finland, France, India, Croatia, Latvia, Lithuania, Austria, Poland, Romania, Russia, Sweden, Slovenia and the Czech Republic.

This edition of **GARDEN & PLACE** has been printed on environmentally friendly, chlorine-free paper.

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Respectfully designed

Zeveren is a quiet district of the Belgian town of Deinze, to the south of Ghent. Garden designer Rik Hiergens lives here in an old house next to the school. It used to be home to the sisters of the order who founded the school. The house has been refurbished with great sensitivity and respect and provided with tall windows that give the impression of drawing the long garden behind it indoors. Terca pavers dominate the exterior, continue here and there in the entrance area to the house and illustrate Rik Hiergens' fascination with the fusion of indoor and outdoor spaces.







A HOBBY THAT GREW OUT OF CONTROL

Says Rik Hiergens, "I remember being fascinated by gardens from a very young age. The beautiful gardens I saw on my way to school etched themselves on my memory. They unleashed a sense of peace and wonderment within me. The reason for this sense of wonderment has preoccupied me ever since and driven me to search for answers."

Rik Hiergens used to be a teacher and everything to do with gardens remained just a hobby for him for many years. When he gave up his little apartment in Ghent and moved to Zeveren, the garden around his new home was completely neglected. Having acquired an indepth knowledge of plants over the years, he decided to redesign it himself.

The new garden soon turned out to be a hit: friends and family members who came to visit were impressed and asked Rik Hiergens to do their gardens as well. In addition, he completed a course in garden design so that he could learn all the practical and technical aspects of the profession. His former hobby became a sideline, and when he isn't standing in front of a class, Rik Hiergens can often be found at his drawing table or with his feet in the garden soil.





“THE LAYOUT OF A GARDEN COULD BE SEEN AS AN ARTIFICIAL AND DISRUPTIVE INTERVENTION IN NATURE. HOWEVER, THE RESULT MUST ALWAYS BE FOCUSED ON RESTORING THE LINKS WITH SURROUNDING NATURE AS QUICKLY AS POSSIBLE.”

AN ARTIFICIAL INTERVENTION WITH A NATURAL OUTCOME

“The design and layout of a garden could be seen as an artificial and disruptive intervention in nature. However, the result must always be focused on restoring the links with surrounding nature as quickly as possible and strengthening that link even further.” With this in mind, Rik Hiergens sets about working mainly on small and awkward plots of land. In doing so, he gets the maximum out of the available area, its orientation and surroundings.

Order and structure are important to him. He likes to supplement strict lines and volumes with slightly looser planting, for which he prefers to use local plant species. The final outcome is a garden that lives in step with the seasons and also retains its exciting structure during the winter months. Rik Hiergens looks on in awe at the grand masters of the genre, such as Jacques Wirtz and the Dutch garden designer, Dick Beijer.

HIS OWN GARDEN AS A DISPLAY WINDOW

Rik Hiergens has clearly expressed all his principles in his own garden: he has created structure and multiple layers with imposing box tree balls and square-cut yew; box and yew hedges



as well as double rows of hornbeam can also be found, as can various species of acorn and a few old apple trees. A view of the surrounding landscape has been retained under a canopy of linden leaves, while the far end of the garden flows smoothly into the green countryside beyond.

The long garden features a gentle right-hand bend in the middle, but the illusion of rectilinearity is restored by long footpaths and a few shady terraces laid to pavers. The garden contains enough formal elements to create a link with the somewhat stately style of the house, while occasional looser elements play on the rural character of the municipality of Zeven. From the office, where classical music plays continuously in the background, customers have an enchanting glimpse of the garden, with its rising lines of yew hedges. These provide a strongly spatial feel and invite visitors to explore the rest of the garden.

A PERFECT COMBINATION OF BRICKS AND PAVERS

To connect the garden to the house, Rik Hiergens searched for a paving material that would compliment the 100 year-old brick walls. Thanks to the pavers he selected from Terca, he was able to let the rear façade flow seamlessly into the garden. He decided to use a small and dark variant: the Terca 'Oud Volendam', with a size of 200 x 50 x 88 millimetres. Like the façade bricks, the pavers were also laid in the running bond.

Rik Hiergens also makes frequent use of pavers in his other projects. The small and practical paver formats offer ideal paving solutions for garden paths and cosy terraces. Pavers are also good for use in gardens with differences in height as well as for creating steps and boundaries. They are particularly versatile, full of character and yet "light" in form and appearance. Rik loves a natural appearance and materials that are durable and simple, but which age gracefully and well. He also likes to combine dif-



ferent materials with each other – such as wood and pavers, but only as long as this produces a calming and natural effect.

The net result is that it seems as if the pavers? have always been part of the old house. The sisters of the former school community would surely have nodded approvingly at this respectful treatment of their former home and the garden.

Private garden, Deinze

Garden architectt:

Rik Hiergens, Zeveren (Deinze, B),
www.tuin-ontwerp.eu

Client:

Rik Hiergens, Zeveren (Deinze, B)

Pavers used:

Terca Oud Hollands-Oud Volendam, format WF;

Available formats:

WF (200 x 50 x 88 mm) & DF (200 x 67 x 88 mm)

Laid area:

90 m²

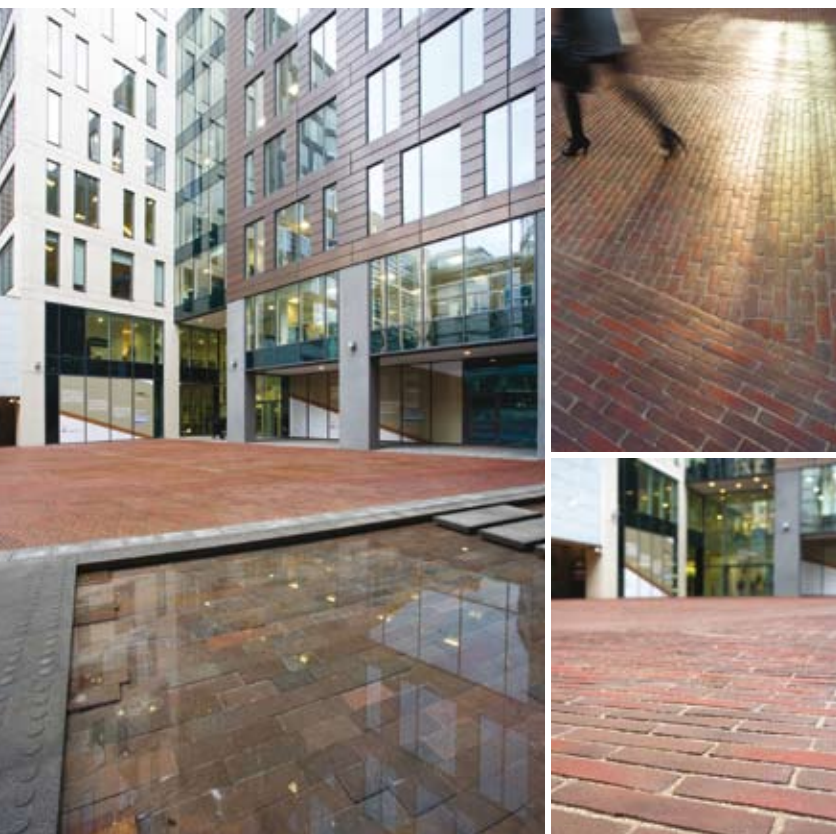
Completed:

April 2008

Mixed red for an urban piazza

Echoing the earthy red tones of the industrial heritage of Manchester and the surrounding new-build complex, Piccadilly Place is the stunning central plaza of a landmark mixed use development. The incorporation of Wienerberger's Dutch Clay paving enabled landscape architects Austin-Smith:Lord to complete the scheme with a pallet of complementary colours and textures.





Masterplanned and conceptualised by award-winning, international architectural practice Austin-Smith:Lord, on behalf of property developer Argent, Piccadilly Place is regenerating and attracting investment to a vibrant and distinctive Manchester City district. The mixed use development includes high quality public realm areas, a hotel, four office buildings, residential accommodation and retail space.

Visitors to Piccadilly Place are greeted by the sound of water as it cascades down a water-wall and escapes into a broad rill, which draws them into the piazza at the heart of the development. With its simple layout, devoid of any vertical elements, the piazza emphasises the scale of surrounding colonnaded buildings with restaurants, bars and shops spilling out across the space.

Austin-Smith:Lord understood that simplicity of layout places considerable emphasis upon the nature and quality of materials used. The rich colours within the Eindhoven Mixed Red clay pavers add warmth to the main piazza, complementing the contemporary use of porphyry and granite within the water feature, as well as providing a link to the historic terracotta tile and red brick buildings in the vicinity. The striking colour range available from this natural product will endure as the space matures over time.

The Wienerberger Dutch Clay pavers were also selected for their textural qualities: from the fine grain of the surface, through to the stretcher bond applied within a trapezoidal paving layout to highlight its elongated geometry.



Piccadilly Place, Manchester

Architects' office:

Austin-Smith:Lord LLP

Client:

Argent, Piccadilly Place

Pavers used:

Eindhoven Mixed Red

Format used:

WF 200 x 48 x 85 mm

Completed:

2009

Laid area:

835 m²

On edge and brown

When redesigning two residential streets in Brunswick, not only the town, but also all the residents decided to have the road topped with Penter pavers. Laying the pavers 'on edge' was something new for the construction company.



Nowadays, modern roads and transport areas need to be not only safe, but durable, environmentally friendly and economical as well as having the quietest surface possible. A successful example of a sustainable and high-quality refurbishment and redesign of roadways was achieved by the city of Brunswick together with the residents in a residential district to the north-east of the city centre. This innovative project is noteworthy for a number of reasons, including its choice of building materials – all the residents unanimously opted for high-quality Penter pavers instead of the cheaper road surface originally intended. Some of the pavers were laid on edge – a very unusual method of laying pavers, both for the construction company and for the region in general.

RESIDENTS OPT FOR HIGH-QUALITY SOLUTION

Brunswick, the so-called Lion City, has 246,000 inhabitants and is the second largest city in Lower Saxony, a cultural and business centre and the number one place to live in the region. Maintaining the quality of life on offer is an issue which is close to the hearts of city officials and residents alike. This was recently demonstrated in the renovation of two roads in a residential area in the University quarter, close to the city centre. After more

than five decades, the old road surfaces were in a very poor condition and the cobbles heavily weathered. The original plan was to use cheaper concrete blocks for the required renovation of the roadway. As is the case for many local authorities, Brunswick did not have the budget to use high-quality ceramic pavers to surface its public roads. The financial constraints of the residents also had to be considered, because under the road upgrade contribution statute they were obliged to cover 75 per cent of the building costs themselves. After the residents were convinced of the need to renovate the roads in an expert report prepared by the university, they comprehensively exercised their rights of co-determination during the planning phase. They decided against the cheaper variant and opted for high-quality, durable Penter pavers for the new road surface. The resulting additional costs of EUR 1,000 to 2,000 per property were unanimously covered by the owners in favour of this sustainable solution.

INDESTRUCTIBLE PAVERS

For the first time, the city of Brunswick, together with its residents, has succeeded in implementing a communal building

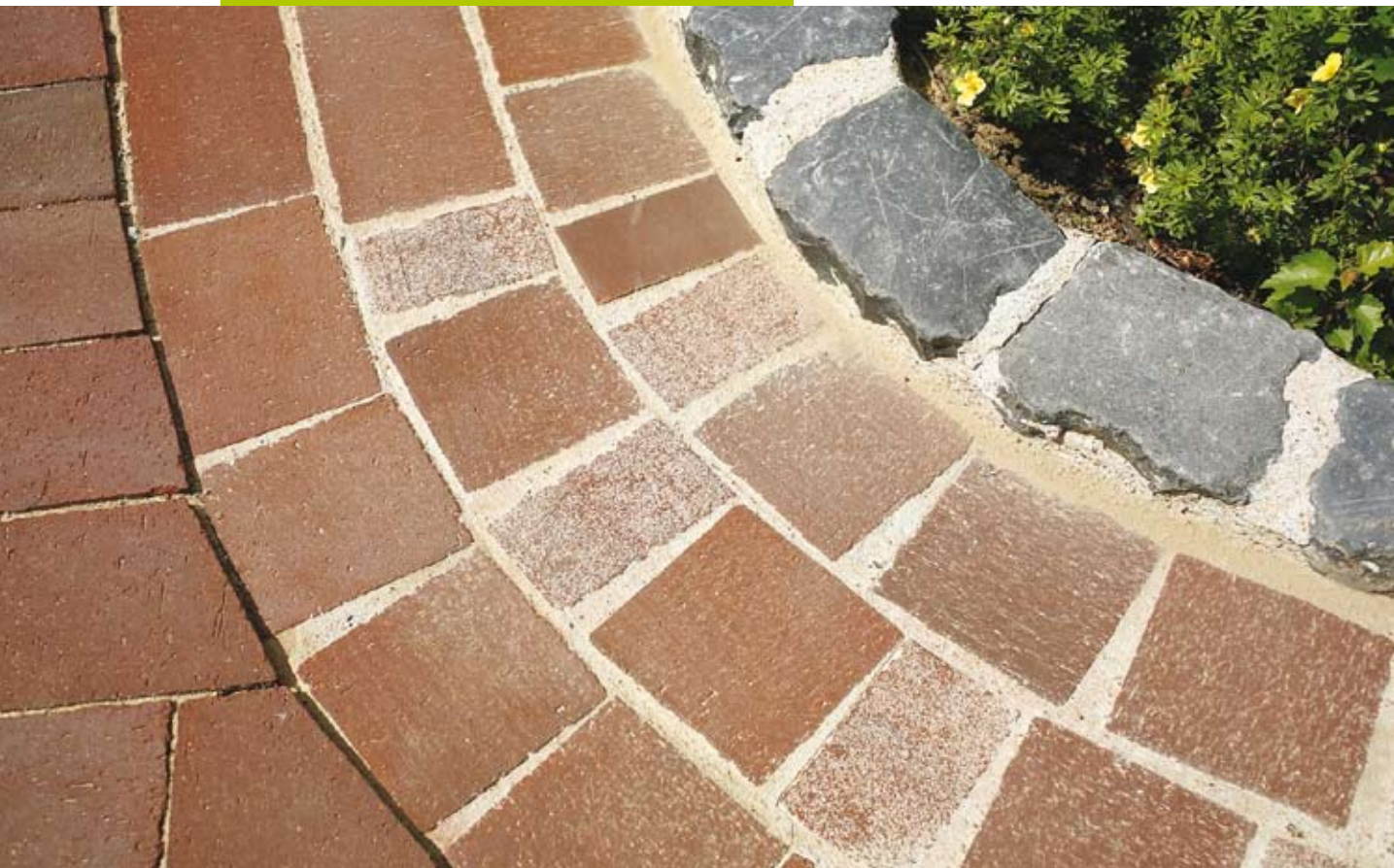




facility of far higher quality than the usual standard. "The awareness of the citizens in choosing a higher quality building material was remarkable," says Bernhard Kintzer, the head of department responsible for civil engineering and transport for the city of Brunswick. "For me as a road-building engineer, this decision was a stroke of luck, because the concrete blocks originally intended are nowhere near as resistant as real pavers. It is almost impossible to discern the differences in multi-coloured road surfaces made from concrete blocks after just five to ten years, because the colour has faded so much. Pavers are permanently colour-fast, resilient and robust. They last for ages, are easy to look after and do not wear with the years. This makes them a very economical road surface, indestructible and still fresh-looking, even after 50 years."

BROWN COLOUR CHOICE

Designing roads places high demands on the technical and visual quality of the materials. They should not only be reliable and able to withstand high stresses over the long term, but must also meet the relevant aesthetic requirements and blend harmoniously into their environment. In Brunswick, the pavers were originally tendered as being brick red. However, the



property owners decided against the commonly found red and instead went for Penter pavers in brown, not least because this colour bore the greatest similarity to the previous road surface.

The quality of the paved areas, in particular the strength of the block paving, depends on the quality of the pavers used and also on the structure of the substrates. The structure and dimensions of the base course depend on the anticipated load, especially the ability to withstand traffic and frost. Thanks to their low water-absorption, Penter pavers are absolutely frost-proof and also fully resistant to gritting salt. The underlying paving bed must be formed so as to ensure sufficient water permeability.

The size, function and resilience of the surface also play a role in the choice of laying pattern. In Brunswick, the client chose a classic stretcher bond. This is one of the most frequently used bonds, offers high stability and is simply to lay. Fitting pieces are not needed and the blocks are also easy to lay on the curve. The blocks are laid perpendicular to the direction of travel, which gives the stretcher bond the high composite structure required for roads.

UNUSUAL ON-EDGE INSTALLATION

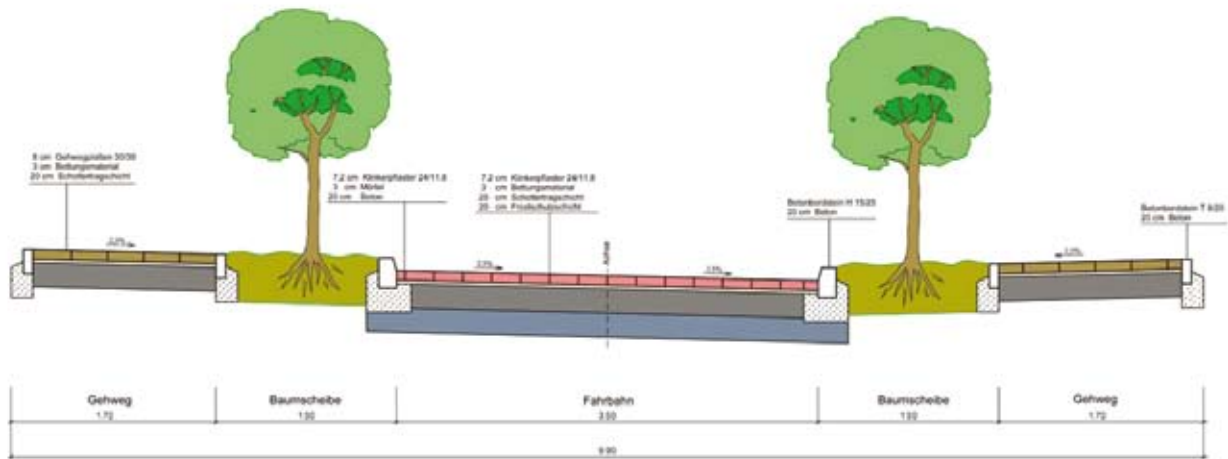
For the technical structure of the base course, it does not matter whether the pavers are laid flat or on edge. Laying pavers on edge is a rarely used technique in the Brunswick region and the paving company had not used this method for 60 years. However, the laying of pavers on edge guarantees better load absorption and thus helps with the increased thrust forces that occur at crossroads. The top of the blocks also has a roughened surface for even better grip and has proved its effectiveness, especially in the rain or adverse weather conditions.

The edges of the pavers can be chamfered, (i.e. gently bevelled) or unchamfered (i.e. sharp-edged). At the request



of the residents, unchamfered pavers and a narrow joint were used to minimise the noise from passing traffic. On the recommendation of the manufacturer, the blocks also have shortened spacers which act as a laying aid and ensure even spacing. This prevents the sharp-edged blocks from butting up against each other and reliably prevents the edges from spalling during subsequent vibration of the surface when driven over.

in accordance with installation guidelines, the joints should usually be three to five millimetres in width. In Brunswick, an even narrower joint of two to three millimetres was chosen following expert recommendation in order to ensure that the sharp-edged blocks would not spall at a later point in time. To set the joints, the surfaces were scattered with sand immediately after being laid. Prior to final sealing of the surfaces, the joints were also filled with sand of a specific grain size (guidelines specify zero to three millimetres; in Brunswick, a grain size of one to two millimetres was chosen).



HIGH QUALITY FOR LIFE

The surfacing of roads, paths and squares with pavers made from fired clay is a very old and proven method of construction and is especially common in North Germany. The enduring beauty and stability of paved surfaces depends heavily on expert planning and installation, as well as on the quality of the materials used. Penter pavers satisfy the most stringent quality standards in all areas and are noted for colours that last a lifetime. Thanks to their consistently high quality standard, Penter pavers are amongst the most sought-after and requested building materials, not only in the north of Germany, but across the country and beyond. This top-quality natural product is made from local clay extracted from the "clay meadows" of the Frisian Wehde and the slate mines of the northern Teutoburg Forest at Bramsche. Penter pavers are manufactured at the traditional North German Pente brickworks in Osnabrück. The "Penter Klinker" brand is distributed via Bockhorner Klinker GmbH based in Bockhorn, which also offers a comprehensive product range of facing bricks for creating facades.

Rudolf-Wilke-Straße/ Hermann-Riegel-Straße, Brunswick

Planning:

City of Brunswick – Department of Civil Engineering and Transport

Client:

City of Brunswick

Contractor:

Hastrabau-Wegener GmbH & Co. KG,
Brunswick-Lehndorf

Subcontractor/Layer:

Pfeiffer Pflasterbau, Magdeburg

Pavers used:

Penter pavers, brown flamed

Format used:

130,000 pavers, 240 x 118 x 71 mm, unchamfered (sharp-edged) with trimmed spacers and 11,000 pavers, 240 x 118 x 71 mm, unchamfered (sharp-edged), without spacers, roughened for laying on edge

Completed:

March 2008

Laid area:

approx. 4,000 m² of roadway

Textbook design in a class of its own

Numerous well-tended front gardens adorn the Lodewijk De Konincklaan street in the Belgian town of Hoogstraten. Hoogstraten lies in the northernmost part of the country, right on the border with the Netherlands. This particularly green region has wide tracts of open countryside, numerous hiking and cycling trails and gardening seems to be a particularly popular hobby. It also provides the setting for the work of landscape and garden architect Machtelt Tilburgs.





DETERMINING THE OUTLINE

Machtelt Tilburgs was fascinated by nature and plants from a very young age; hardly surprising for a child from the countryside. She also always had a talent for drawing. The combination of these two interests led her to the Hoger Rijksinstituut voor Tuinbouw / KRA Horteco in Vilvoorde. She started work in 1990, designing gardens that are noted for their elegance and simplicity. Machtelt Tilburgs enjoys working with green-fingered clients. She determines the outline and gives the homeowners enough space and freedom to continue designing their garden themselves over the years to come. Many of her clients want to have their gardens laid out in phases and be actively involved in this process of growth.

SIMPLICITY AND CONNECTION WITH THE HOUSE

Says Machtelt Tilburgs, "I can see great changes taking place in garden design and in the garden as a world of experience. In my early years, I had reams of plant lists. Now, it all fits on a single sheet of A4.

I really like to work with hornbeam, holly, box, bamboo, decorative grasses and hydrangeas. The general trend in garden design is one of simplification. Fewer plants are being used, while the use of structural elements is on the increase. This is partly due to the demand for low-maintenance gardens. Everything is now being made more rectilinear and elegant, while paving materials have become much more important. Personally, I look to achieve a close connection between the garden and the house. Natural paving materials such as pavers form an ideal link between the house and its immediate surroundings."

Machtelt has also seen an increase in demand for quality. Naturally fired materials are becoming ever more popular. Her clients prefer to opt for a durable paving material of superior quality, in which case higher costs are often offset by implementing the project in stages.



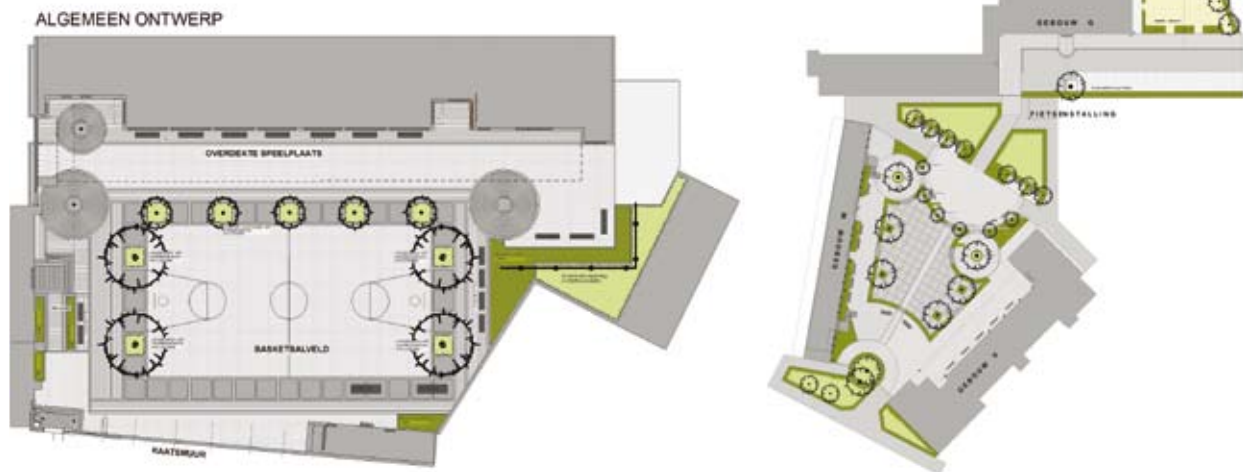
REDESIGN OF THE SCHOOLYARD

Machtelt Tilburgs had the opportunity to redesign the two large schoolyards at Sint Jan Berchmans College in Westmalle during 2007 and 2008. This was no everyday assignment for a garden architect, but all the more exciting for it. This school of higher education enjoys an excellent reputation that extends far beyond the region. Respect and discipline are key here. The school wanted to make its commitment to quality teaching visible in the schoolyard. The schoolyards for the secondary stages I and II used to be paved with somewhat boring, classic concrete slabs measuring 30 x 30 centimetres.

In consultation with the school community, it was decided to use Terca pavers and large Eurodal concrete slabs for the new layout. The cheaper concrete was used to keep the overall cost down. It also made a nice contrast to the pavers. The latter were chosen not only because fired clay is a refined, durable and natural material, but also because the pavers fitted perfectly with the old, handsome, brick-built school buildings. The pavers ("Oud Zaandam") were mostly laid in the running bond. Some

of them were laid flat and some on their edge. The pavers were also used as lines and surrounds for the Eurodal slabs. Roll-layers of fired blocks criss-crossed the Eurodal slabs in classical form. This created squares which prevented the space from becoming monotonous. To break up the straight lines, Tilburgs laid two circular areas connecting the two school buildings to each other. The lower inner courtyard creates a slightly playful and pleasant atmosphere. The landscape architect created space for games and sport, as a lot of football and basketball are played, especially in the small schoolyard, by the younger children. Finally, the careful positioning of the gutters and gulleys ensured that these large areas were properly drained. The new paving has also been complemented with appropriate furniture in the form of concrete benches.

The choice of plants came down to copper beeches, which together with magnolias and ornamental pears, transformed the schoolyard into a pleasant outdoor space. It took two years to redesign the two schoolyards. This was mostly due to the size of the project – some 1,400 square metres were remodel-



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led here – and due to the fact that work could only take place during the summer holidays.

Not only are the teaching staff and school management team extremely satisfied with the outcome, but the students are also whole-heartedly behind it. Although things can occasionally get pretty lively in a schoolyard, the students treat the paving, plants and furniture with deference and respect. This is an attitude that also reinforces the respectful pedagogical approach of the school to the outside world.

“It should be the right of every school to create this type of infrastructure for its students, both in its buildings and in its schoolyards. But unfortunately this remains more the exception than the rule,” concludes Machtelt Tilburgs.

Sint-Jan Berchmans College, Westmalle

Architect:

Machtelt Tilburgs

Client:

Sint-Jan Berchmans College, Westmalle (B)

Pavers used:

Terca Oud Hollands-Oud Zaandam in combination with concrete slabs

Available formats:

WF (202 x 88 x 50 mm), DF (202 x 88 x 66 mm)

Laid area:

Schoolyard 1: Terca Oud Hollands-Oud Zaandam:

230 m² laid on edge + 290 m² laid flat

Schoolyard 2: Terca Oud Hollands-Oud Zaandam:

404 m² laid on edge + 766 m² laid flat

Completed:

September 2008

A hotspot for Norwich

The Dutch Clay paving selected from Wienerberger's extensive range complemented the other materials chosen for the remodelling of the steps and the paved areas of the Forum and Millennium Plain and allowed designer, Werner de Bock of Landplan Associates to pay homage to his roots.



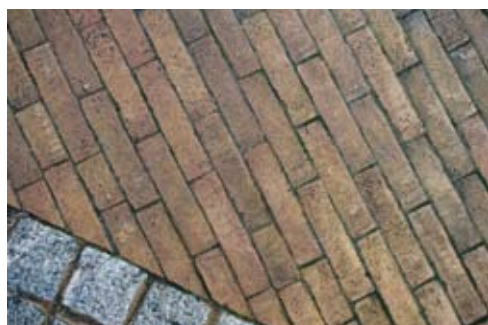
The award-winning Forum building, designed by Sir Michael Hopkins, is the landmark Millennium project for the East of England. Managed and maintained by The Forum Trust, the central aim is that the Forum and the Plain benefit the community so that everyone can enjoy using them.

The urban, paved, open space in front of the Forum, known as the Millennium Plain, was initially delivered as part of the completed building in 2001. After a few years, it was felt that it had not fulfilled its potential and so, in 2004, thanks to a grant from the Millennium Commission, Werner de Bock CMLI of Landplan Associates (chartered landscape architects) was commissioned to prepare a number of designs for the remodelling of the steps and paved areas. His brief was to create a public space that would be more flexible to accommodate a wider array of outdoor performances, using upgraded quality and durable materials to replace the largely standard concrete slab paving.

The design was constructed on site with paving materials supplied by Hardscape Ltd and consisting of a combination of large grey Chinese granite paving slabs and interlocking curved Chinese granite steps set off by the warmer tones of Wienerberger's Hague Cream Waal-format Dutch paving. These buff-coloured sand-faced bricks were laid flexibly on edge, as traditionally done in the Netherlands, on a compacted bed of sand with brushed-in joints.

As brick figures highly in the designs in the centre of Norwich, Werner de Bock placed a special emphasis on the use of this material. As much as the look of the Plain was critical to the success of the finished project, the designer was also keen to use brick that would be durable and have a non-slip surface to allow for the fact that most of the brick paving is on a gradient.

Since its completion in 2005, the remodelling and enhancement of the Millennium Plain has created a "Covent Garden"



style space for all visitors. Werner de Bock comments on how the brick was intrinsic to the impact of the design: "The use of the Dutch sand-faced, narrow Waal-format paving bricks alongside the granite maximises the impact of the overall appearance of the Plain. This design now positions the Forum and Millennium Plain as a focal point for all visitors to the City."

The Forum and Millennium Plain, Norwich

Architect:

Werner de Bock, Landplan Associates

Client:

The Forum Trust

Material supplier:

Hardscape Products Ltd

Pavers used:

Hague Cream

Format used:

WF 200 x 48 x 85 mm

Laid area:

1,237 m²

Completed:

2007

“Living beautifully is what it’s all about.”

The choice was obvious. Dresden paving brick harmoniously integrated a modern single-family house into the beautiful rustic scenery of Chrościce – a small village in Opole district.



During his frequent trips across Western Europe, Adam Piekorz admired well maintained estates whose beauty was enhanced by the right selection of paving brick. When he set out to pave his front yard – an area of nearly 350 m² – his choice of material was obvious. “In addition to a pleasing appearance, I wanted a functional solution. Clay paving brick does not change its colour or structure, and it is resistant to bad weather – of which we have more than our fair share in Poland,” says Adam.

Mr. Piekorz decided to design and pave the yard on his own. His inspiration came from his many journeys abroad, and his creativity and years of experience in the construction business enabled him to complete the project down to the finest detail. Paving machines and devices were supplied by Mr. Piekorz’s business.

The brown and anthracite-coloured Terca Dresden paving brick chosen worked beautifully against the roof, the fence made of motley coloured brick and other finishing touches on the house: porticos, quoins and an arch leading to the interior of the estate. The herringbone arrangement of the paving brick, combined with finely hewn granite stones, gave the yard a unique character. The layout comprised long strips that

punctuated geometric patterns running across the centre of the paved yard. These accentuated the paving borders and blended with the greenery of the garden – trees, shrubs and a carefully tended lawn. The net result was a light and sophisticated design with a natural simplicity that complimented the picturesque rural scenery around it.

Dresden paving bricks are not only a decorative feature around the house, they also serve a practical purpose – quite literally on the other side of the fence. The house is situated in an undeveloped rural area with no pavement running along the access road. By laying a wide strip of clay brick along the entire fence at the side of the road, Mr. Piekorz created a pavement and a driveway that stands a fraction above level of the road.

The finished scheme is now the owner’s pride and joy: “I am very satisfied with the choice of Wienerberger Terca Dresden clay paving brick. The product has met all of my expectations. Living beautifully is what it’s all about.”



Single-family house, Chróścice

Architect:

designed by Adam Piekorz himself

Client:

Adam Piekorz

Pavers used:

Terca Dresden

Format used:

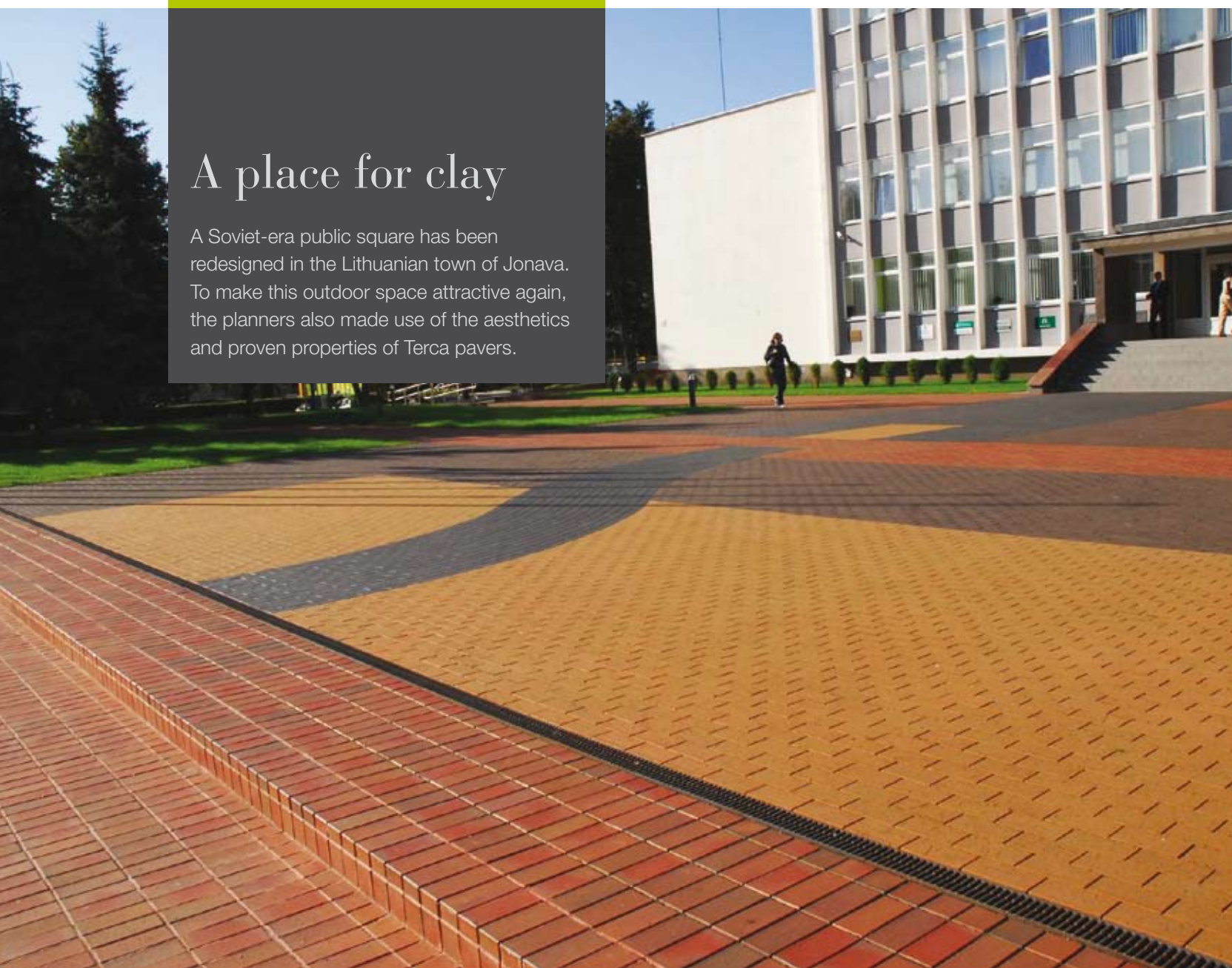
200 x 100 x 52 mm

Laid area:

approx. 350 m²

A place for clay

A Soviet-era public square has been redesigned in the Lithuanian town of Jonava. To make this outdoor space attractive again, the planners also made use of the aesthetics and proven properties of Terca pavers.

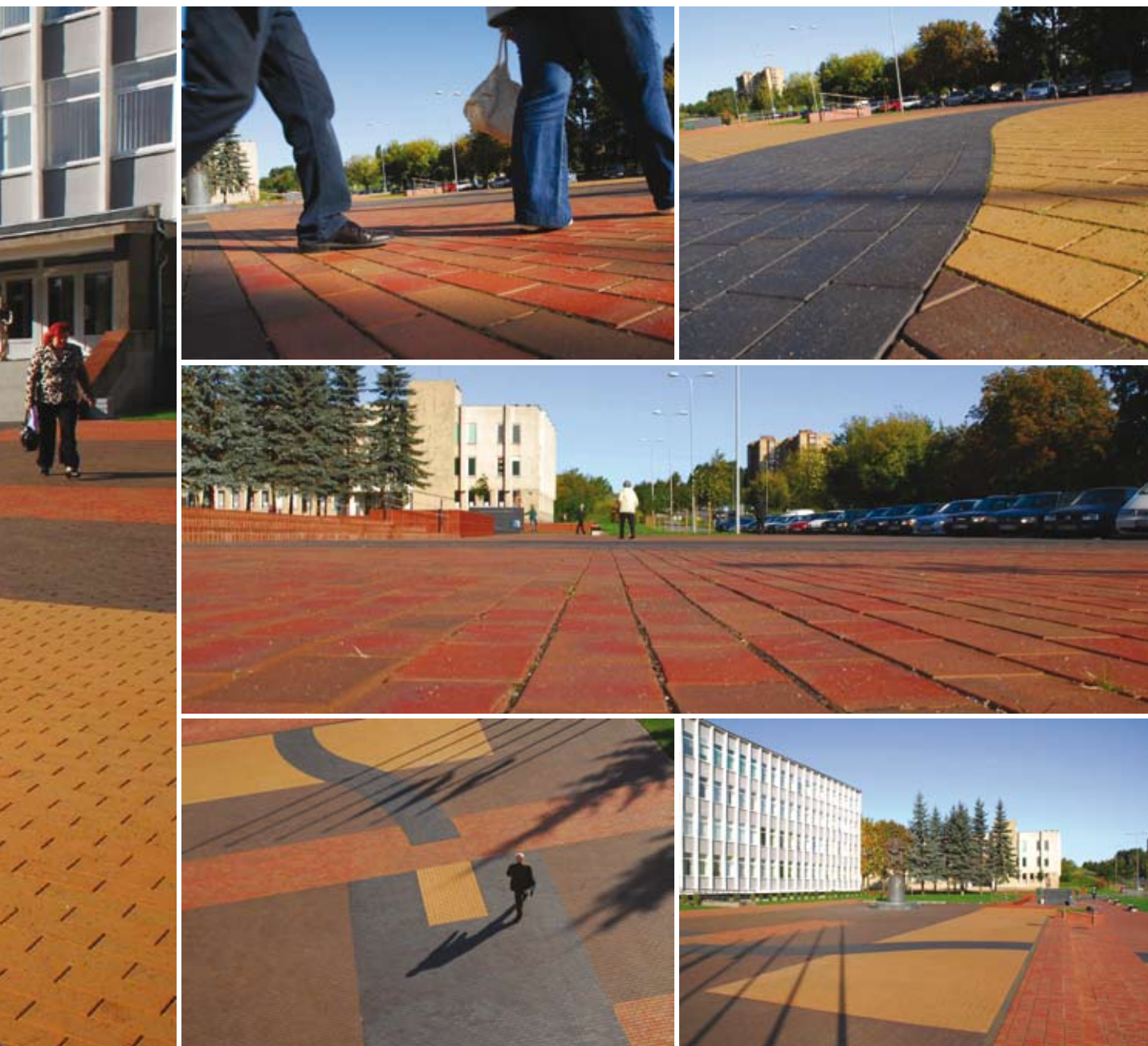


The square in Jonava came into being during the Soviet era with rather more spontaneity than planning, when several public administration buildings were built on an adjacent street between 1960 and 1970. In line with the traditions of the time, a sculpture of Lenin in red granite also had to be installed on the main square, but this was later removed following Lithuania's independence. Today, the square is bounded on its northern side by the cultural centre and local authority buildings. There is also a court building, which still bears the architectural signature of Stalin's era, an art school and a very busy road in the immediate vicinity.

The original square was paved with concrete blocks and red granite slabs up until the renovation, but the passing years had left their mark. Signs of physical wear, unevenness, cracks and damage could be found across the large square, which had slowly become less prestigious. The aim of the refurbishment was to make the square greener and more pleasant, thereby restoring its attractiveness as a place to meet and rest. The parking problem around the square was also to be addressed

by creating new parking spaces and rearranging the pedestrian flows to best effect.

Architects Alfonsas Petrokas and Živilė Sakalauskienė opted for clay Terca pavers as their paving material of choice. The decision was made on the basis of the products' attractive aesthetics and excellent technical properties: Terca pavers are able to withstand mechanical and chemical influences, are particularly durable, and offer excellent anti-slip characteristics. In addition, they deliver very good performance values in terms of rainwater seepage. The natural building material of clay was deliberately chosen to make the square "more human" and comfortable. The natural, rich colour of the Terca clay is eye-catching and forms a lively contrast to the predominantly grey surroundings. The use of four different colours and a somewhat complex laying pattern helps to create dynamism in the public domain. The central, open area of the square is also used as a performance venue for events. The sculpture of Lithuania's great humanist and reformer, Abraomas Kulvietis (1510–1545), which was erected to mark the 1000th anniversary of Lithuania in 2009, is a



dominant feature. The linden trees in the northern section of the square were planted on the occasion of Lithuania's accession to the EU. Lighting, green spaces, benches, and a series of water fountains were also put in place to make the main square more attractive and cosy and further landscaping of the area is planned. In its capacity as client, the local authority also placed great emphasis on the absence of barriers and had ramps installed to make it easy to overcome differences in levels. To the architects' regret, however, the budget was cut midway through the building works and forcing them to use cheaper building materials for the edging walls and fountains. Nonetheless, once the project was complete, everyone agreed that the use of pavers had given the square the desired cosiness and a lasting beauty.

Santarvė Square, Jonava

Architects:

JSC "Jonavos projektas", Živilė Sakalauskienė (implementing architect), Alfonsas Petrokas (project manager)

Client:

Jonava Local Authority

Pavers used:

Dresden, Lübeck, Wettin, Niedersachsen

Format used:

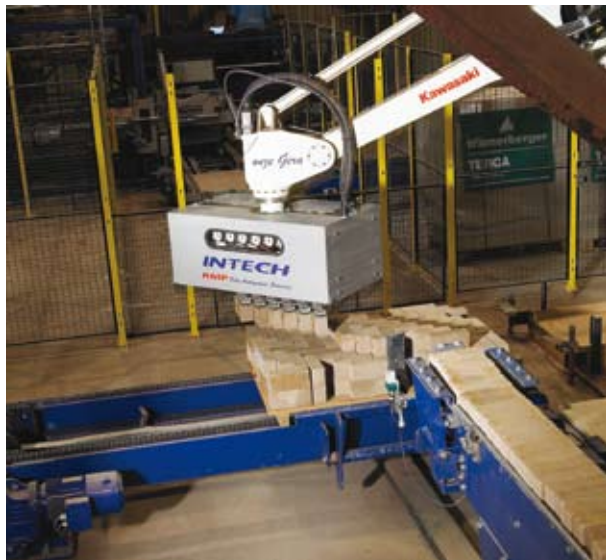
200 x 100 x 52 mm

Laid area:

2,400 m²

Mechanical laying of clay pavers





Traditionally, clay pavers are still often laid by hand. However, kneeling on bedding sand or on a freshly finished pavement in all weathers can cause a variety of long-term symptoms and ailments. This leads to sickness absence and ultimately to an inability to work – which can result in significant costs in this business sector.

For the protection of the paver-layers, a directive has been developed in the Netherlands, making mechanical paving obligatory for both concrete and clay pavers in any area of pavement of 1,500m². Employers and employees have agreed on this standard, which is also the basis for inspections by the labour inspectorate.

Wienerberger not only supports this desire to relieve the physical labour of traditional paver-layers, it also seeks to contribute to a responsible, health and safety friendly working environment for all. The company therefore looked for opportunities to facilitate mechanical stacking and paving and this ultimately led to the development and installation of the stacking robots at the

Wienerberger plants. These robots stack the Terca clay pavers on pallets in such a way that mechanical processing can be carried out without any problem. Regardless of the bond pattern (e.g. 45° herringbone, elbow or 90° herringbone or basket weave) or the design of the paving machine (from mechanical clamping units to vacuum-operated models), clay pavers specifically designed for mechanical paving are being delivered onto construction sites across Europe. The percentage of these novel packs for mechanical paving is already responsible for between 10 and 15 per cent of the total supply of the company's Dutch clay pavers, and represents a growing trend.

Indications are that the physical strain a paver-layer is exposed to daily will decrease exponentially when applying a professional mechanical paving methodology.

A cosy place to pass the time



This period country house exudes comfort and cosiness. The recently completed reconstruction has done it good. All the elements that could be saved have been repaired, while new elements have helped to produce an interesting building that fits sympathetically into the attractive landscape of South Bohemia.

The use of Terca pavers helped to achieve an attractive solution for the footpath around the house, which was also extended with an elegant canopy by adding a cosy area for passing the time. Skilfully laid pavers in dark and light natural red tones have been harmoniously coordinated with wooden elements such as supporting pillars, bench and table, as well as with the colour of the door and roof tiles. Although the owners of the house originally chose these pavers for their timeless and unique aesthetic appearance, they have since come to appreciate them as a material that requires no maintenance.



Single-family house

Architect:

František Průša

Pavers used:

Terca Landhaus rough red and light red

Format used:

260 x 140 x 50 mm, herringbone bond

Completed:

July 2009



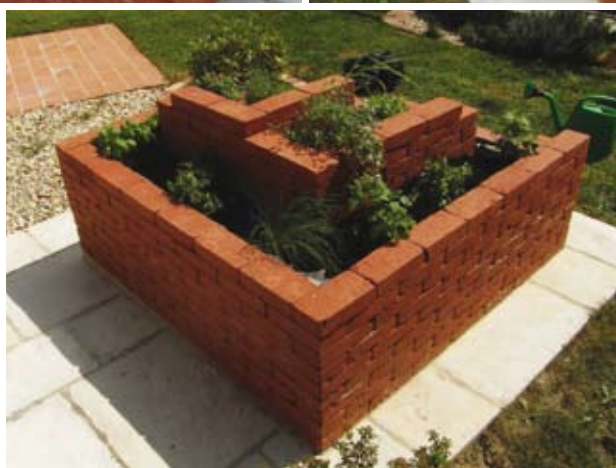


The knowledge of herbs has been passed down from generation to generation for millennia. As a result, this knowledge underpins many traditional medicines. Today, herbs form the basis of modern medicine as well as spicing up any number of delicious dishes in our kitchens.

The Styrian-based paving company Schmerda GmbH (www.schmerda.at) has come up with the concept of a 'herb spiral', which is based on five herb zones. At the bottom are spices and herbs such as chervil, caraway and lovage, while further up we find camomile, parsley and rocket. At the top, at the heart of the spiral, are fennel, coriander and rosemary. The Terca-Piccolo bricks used are produced from natural clay and form the ideal setting for these much-prized herbs.

There is much to do in the garden all year round. Some of the preparations for winter have to be done in autumn. But using the herb spiral, you can still plant winter-proof herbs in the autumn and enjoy spicy and aromatic ingredients the following spring.

Herbs from the clinker spiral



Material required for offset:

Terca Piccolo red antique (400 pcs.)
10 x 20.5 x 5 cm (1 Pa.) with 1–3 mm joint
2 bags of drain mortar e.g. Sopro TR 610 as levelling layer for the first band of bricks
2 bags of mid-bed bonder Trass-Flexibel e.g. Sopro TR 414, for the walls
7 r.m. membrane

Material required for filling:

Fill volume approx. 500 litres
200 litres coarse gravel (water permeable break), approx. 7 r.m. membrane, 5 bags sand 0/4.
150 l potting soil, 150 l herbal soil

Urban accessories

In the Netherlands, Wienerberger is increasingly becoming a one-stop-shop supplier for everything needed for the design of urban and public spaces - and that means a lot more than just clay paving! A client's plan or design is all we need as a starting-point. We then help to make these designs a reality, using technical know-how and a wide range of complementary products and applications.



With "Terca Infra", Wienerberger offers everything required for creative solutions: from a wide range of clay pavers to ceramic tiles in large format and/or natural stone – and an attractive range of urban furniture (Benito, Holonite) and drainage channels (Hydrotec).

DRAINAGE CHANNELS AND BRICKS

Clay pavers and drainage channels lay closely side by side in the pavement. Why not link them together from the range we have on offer? The drainage channels from Hydrotec consist, depending on the system, of fibre-reinforced concrete or ductile iron; liquid-tight and frost-thawing salt-resistant. The products are sourced from a trustworthy supplier and thoroughly tested, so that we can guarantee the highest quality standards. See www.hydrotec.com for more information.

MIX & MATCH: BENCHES & BRICKS

When designing a public or urban space, it nearly all comes down to aesthetics. How should the public space look? What is its environment and function? Which pavers should be used, in which pattern? But also, which urban furniture does this space need? To answer this last question, we can now provide a wide



range of outdoor spaces – thanks to the assortment available from Benito. All kinds of benches, litter bins, flower pots and more are at your disposal, to bring even more comfort and creativity to the beautiful clay paving underfoot.

MORE INFORMATION ON PAVERS CAN BE OBTAINED FROM

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