

GARDEN & PLACE


Wienerberger
Building Value

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2011



 **TERCA**



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Dear reader,

Welcome to the new edition of Garden and Place. Bringing together projects from across three continents, this showcase demonstrates how fired clay pavers can help you to design creative and versatile gardens, squares and entire urban districts. Throughout this edition you will see how pavers can be the catalyst for the metamorphosis of gloomy, unloved places into charming, attractive, welcoming spaces.

Wienerberger offers pavers for every taste and application, and are popular with architects and garden designers who appreciate their aesthetic appeal and durability. A recent study commissioned by the City of Amsterdam provides us with excellent testimony that clay paving – which has a whole life value of more than 100 years – is environmentally compatible and economically competitive. Keep reading to find out more about the sustainability of Wienerberger clay pavers.

With warmest regards,

Heimo Scheuch
CEO Wienerberger AG

P.S. We are giving away five free copies of TOPOS – The International Review of Landscape Architecture and Urban Design at www.gardenandplace.com/topos. Keep your eye out for the answer to the competition question in this edition.

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www.gardenandplace.com



WIENERBERGER BRINGS COLOUR TO THE STREET



Wienerberger Netherlands is now offering glazed paving bricks. They are particularly useful for marking and delineating jogging routes, bike paths, parking spaces or lanes, in a highly visible and attractive manner. The glazed pavers come in three colours: Sky blue, cobalt blue and white. Available in various formats.

Additional information: marketing.uk@wienerberger.com

SUSTAINABLE PAVING BRICKS

When considering carbon footprints and the consumption of resources, paving bricks are the superior choice given their average useful lifespan of more than 100 years. This is the primary conclusion of a study by Tauw environmental engineering consultants (www.tauw.com), who were commissioned by the city of Amsterdam to compare the lifespan of concrete and clay pavers.

Tauw, a European consulting and engineering company, tested the environmental compatibility and energy consumption of the two materials. For aesthetic reasons, the city of Amsterdam had chosen to use clay paving bricks to delineate all 30 km/h zones to improve both the quality and appearance of the public space. The city admi-

nistration found the cost of road paving materials was high and, having prioritised a sustainable procurement policy, commissioned the study. To obtain a comprehensive overview of the different options, the entire value-added chain was analysed from production, processing, maintenance and removal, to recycling and transportation.

To determine the overall CO₂ consumption of paving stones, the environmental engineers included the production of cement in the study. Cement, the raw material of concrete products, is responsible for 90% of the CO₂ emissions related to the paving stones. These stones need to be replaced more frequently than clay pavers while, over a useful life of 100 years, clay bricks have a lower replacement rate, consume fewer resources and produce less waste.

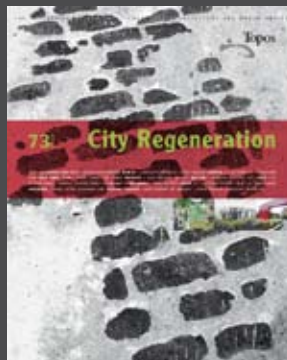
NEW ADDITION TO THE PRODUCT LINE: CERAMIC TILES

Wienerberger Netherlands has expanded its product line to include ceramic tiles for paving. The square format (200 x 200 mm) makes creative new paving designs possible. They are available in two thicknesses (5cm and 6.5cm) and three different colours: Ravenna (light reddish brown), Bruno (reddish brown) and Mastiek (brownish black).



Additional information: **www.tercastraatbakstenen.nl**

Bruno 200 x 200 mm



TOPOS

This quarterly magazine – the International Review of Landscape Architecture and Urban Design – is a must-read for anyone involved in the industry. On more than 100 generously illustrated pages, innovative and pioneering designs for public squares, parks and open spaces are beautifully presented,

as well as more common challenges in landscape design. Each edition, which also includes news, conferences, contests and books relevant to the field, is published in English language. Additional general and subscription information can be found at www.topos.de

We are giving away five free copies of the current edition of TOPOS. To win a copy, answer the following question:

How many tons of CO₂ can the city of Amsterdam save by using clay pavers?

- 23 tons**
- 37 kilotons**
- 237 kilotons**

Answer the question at **www.gardenandplace.com/topos**.

Previous findings of a research project by Has-koning Consulting commissioned by the Royal Association of Dutch Brick Manufacturers found that the average useful life of clay bricks was 125 years.

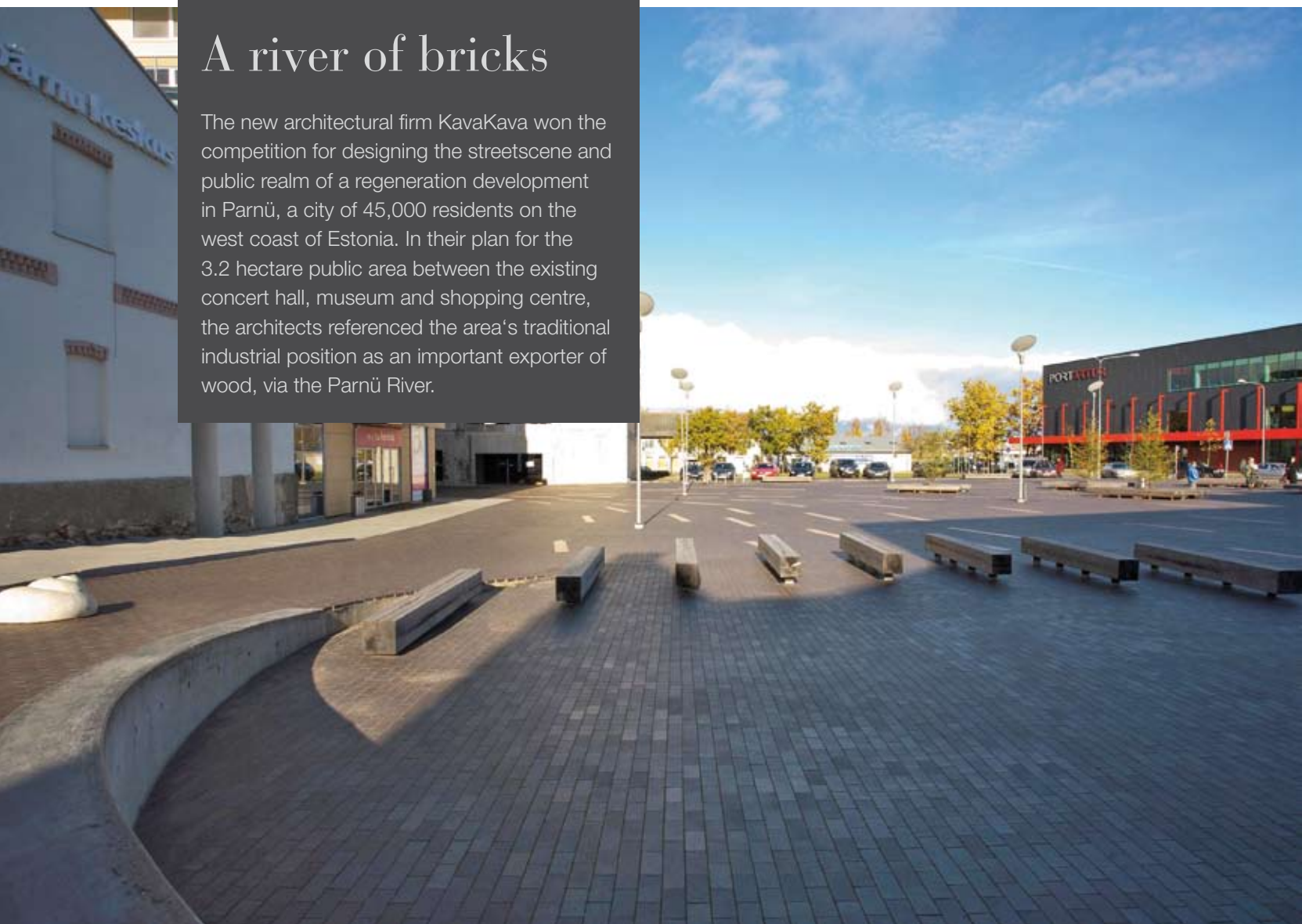
To illustrate the conclusions of the research, Tauw calculated that Amsterdam could save 237 kilotons of CO₂ if clay pavers were used instead of concrete pavers. This corresponds to the annual carbon dioxide emissions of 26,000 households. The calculation was based on the cumulative street surface area within the city over a period of 100 years.

Tauw also referenced a current scientific investigation that shows that river clay, the basic material of clay bricks, is a regenerating raw material

and therefore particularly ecologically sustainable. In conclusion, the study provided excellent testimony that clay pavers are environmentally compatible.

A river of bricks

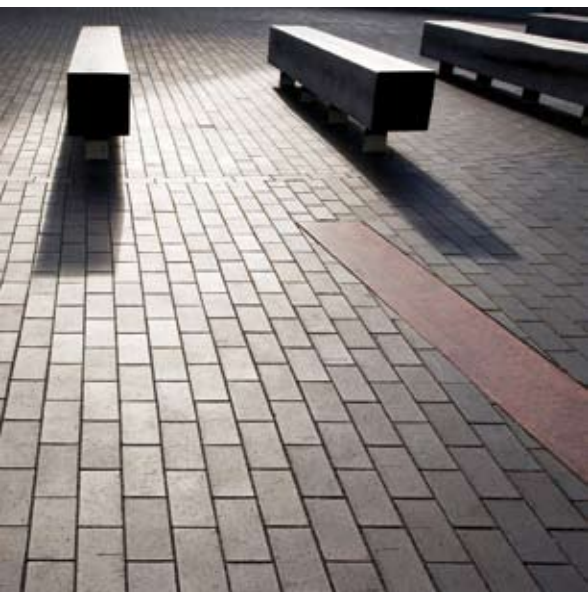
The new architectural firm KavaKava won the competition for designing the streetscene and public realm of a regeneration development in Parnü, a city of 45,000 residents on the west coast of Estonia. In their plan for the 3.2 hectare public area between the existing concert hall, museum and shopping centre, the architects referenced the area's traditional industrial position as an important exporter of wood, via the Parnü River.



One of the planners' main tasks was to reorganise the previously incoherent jumble of streets and public squares. KavaKava's challenge was to make the large public area more attractive to users and remain true to its historic background while simultaneously improving access for the surrounding city.

Aida Street forms the primary axis of the project area. Designed as a pedestrian zone, it leads from east to west, linking a newly constructed bus stop with the existing marina. Two neighbouring spaces, in front of the history museum and concert hall, combine to form a broad plaza ideal for staging open-air concerts and other events. The narrow and dark streets between the office buildings will be rendered more inviting by the installation of a glass canopy. On the east side, the square opens into a new city plaza with benches and green areas which can also be used as a marketplace or performance area for cultural events. The architects, Katrin Koov and Kaie Nõmm, developed a spatial concept that joins the different, previously unconnected locations of the new part of the city

by using historical references. Key to this is the river which, in the Middle Ages, ran much more closely to the city. As late as the 20th century the river Parnü, from which the city got its name, functioned as an important trade route. The primary export was timber which was floated down river into the city. "Consequently, we used tree trunks as a central design element for the entire area," explains Katrin Koov. The area of the earlier riverbed was marked with Dresden pavers in a half bond pattern that cleverly reveals the former course of the river, the location of the harbour, the line of the city wall with its corner tower, and the location of the church square. In this 'river' of paving bricks, we find occasional representations of tree trunks which increase in frequency as you near the former harbour where the concert hall now stands. Because this square has a high traffic volume, the tree trunks amongst the pavers are made of concrete instead of solid timber, with the surface made to resemble real wood. These tree trunks are arranged in orderly lines along the street only to break up the strict pattern near the new main square.



Where the former harbour once stood, individual concrete tree trunks now float in a river of paving bricks.

The tree trunk device is also used to mark off parking spaces and pedestrian crossings.

The city development project, which entered the implementation phase in 2009, has not yet been completed. At present, approximately 7,000 m² of paving has been laid, with a total 10,000 m² planned. The completion of the project will depend on the resolve and funds of the various participants in the project (the city, museum, concert hall, and project developers). So far, the most important structures such as the paving, benches, lighting and trees have been realised despite the very tight budget. Fountains and sculptures may still have to wait a little longer for their debut.

Street and public square design, Parnü

Architect:

Katrin Koov, Kaire Nõmm, KavaKava

Developer:

Aida Partnerid OÜ; City Government of Parnü

Paving bricks used:

Terca Dresden

Available formats:

100 x 200 x 71 mm

Laid area:

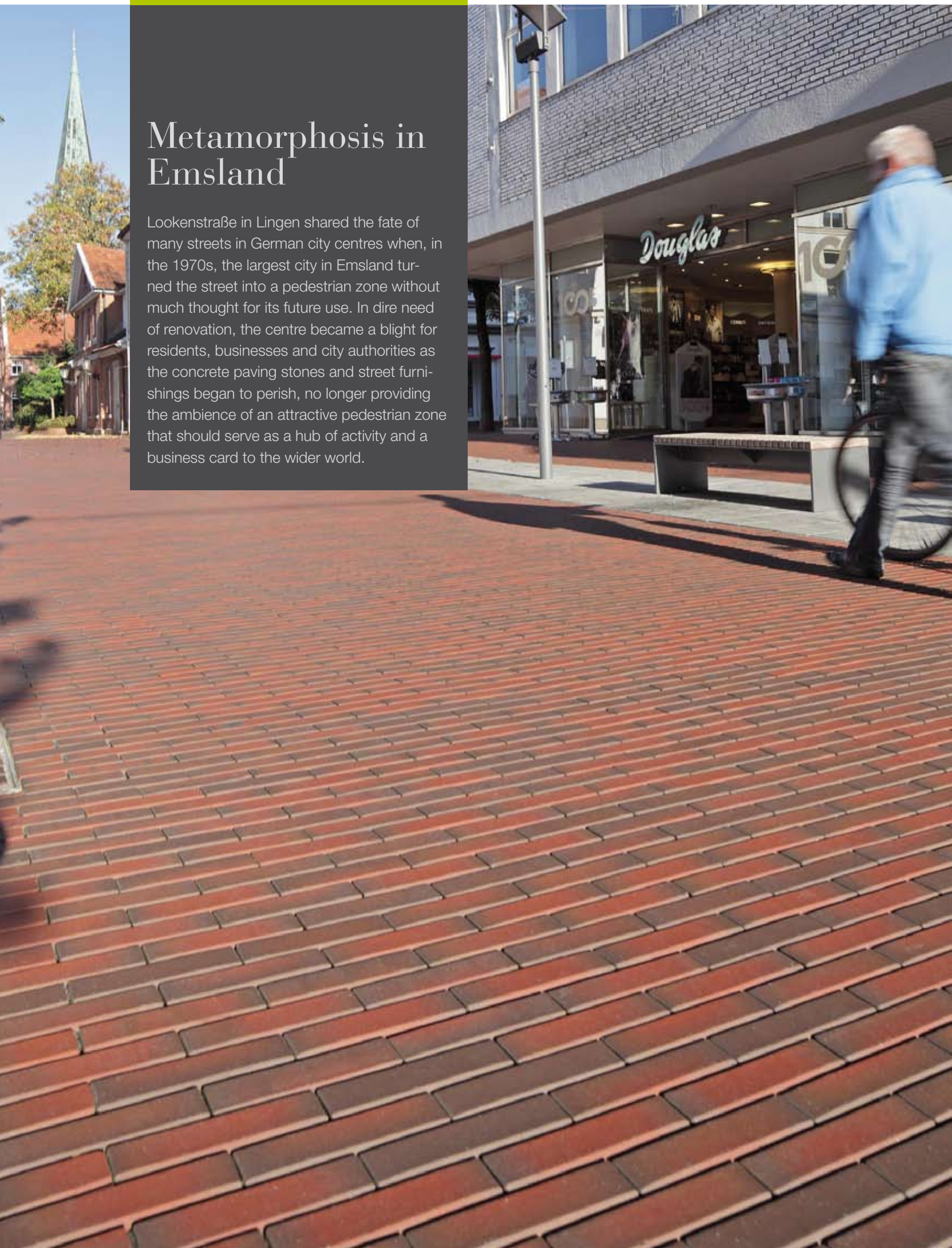
Approx. 7,000 m²

First section finished:

2009

Metamorphosis in Emsland

Lookenstraße in Lingen shared the fate of many streets in German city centres when, in the 1970s, the largest city in Emsland turned the street into a pedestrian zone without much thought for its future use. In dire need of renovation, the centre became a blight for residents, businesses and city authorities as the concrete paving stones and street furnishings began to perish, no longer providing the ambience of an attractive pedestrian zone that should serve as a hub of activity and a business card to the wider world.



TRANSPARENCY AND QUALITY

During the extensive renovation of the inner city, the city administration initiated a discussion about renovating Lookenstraße and the neighbouring residential streets. Peter Krämer, Director of City Planning and Building Construction for the municipal administration stressed the importance of involving the residents and business community in the regeneration. "We wanted to find a solution where everyone was satisfied," he said. "Since the project is partially financed by tax dollars, the transparency of the decision-making process was paramount. Town hall meetings, informational letters and public discussions take a lot of work, but it was worth it. Our new pedestrian zone is now much more attractive."

From the beginning of 2006, a joint approach was developed with neighbours, and working groups ensured that the different views were taken into consideration. Funded by the state of Lower Saxony, the draft plan was based on an initial project which sought to revise all the main axes of the pedestrian zone. The work was divided into several construction phases, and a total of 7,200 m² of pavement was renovated with the revamp of Lookenstraße forming part of the overall project.

TYPICAL OF THE REGION

In the winter of 2006, following a competition between six urban planning offices, the concept drafted by the office of r + b in Dresden was unanimously selected in April 2007. Landscaping architect Jens Rossa developed his draft entitled "tidy up and rearrange" which used a new paving scheme to convert the individual residential streets of the old city into a uniform pedestrian zone that emphasises the character of Emsland.

PAVING WITH A HISTORY

The traditional "Bockhorner Bunt 04" paving brick was specified for the wearing course as a typical regional product, while the underlying layer was also replaced. The contract was awarded to two companies with the first construction phase seeing Nordhorn-based contractors Bernsen Garten- und Landschaftsbau GmbH & Co. KG. lay approximately 1,400 m² of the Bockhorn pavers. In the second phase, the Lingen-based GaLaBau Emsland laid a further 1,700 m² of this classic paver. Construction supervisor Christoph Möller is enthusiastic about the varieties of colours and durability of the paving brick, which is fired to be extra hard: "We have been working with Bockhorn



The Bockhorner Bunt pavers lend the pedestrian zone particular charm while, thanks to the hard-fired manufacturing technique, the surface is extremely robust.



Before and after: A bright display of colours instead of grey in grey. The pedestrian zone in the biggest city in Emsland needed a facelift.



Landscaping architect Jens Rossa decided to lay the clay pavers on their edge. The paved surfaces have a certain lightness about them and an attractive, natural appearance.



Colourfast, slip-resistant and durable. Paving bricks are ideal for surface paving in public areas.



paving bricks since the 1970s. Back then, three thoroughfares were moved from the city centre to the edge of the city, and the areas that were freed up were paved. At the time, we learned to appreciate the uniform quality. In Lingen, the 220 x 80 x 55 mm format was laid with 3 to 5 mm between them which prevents the edges from breaking off when they are compressed with the compactor."

Despite the low water absorption characteristics of the product, one of the unique attributes of a paved surface is that it allows approximately 40 per cent of rainwater to seep through, even though the joints make up only 10 per cent of the overall area. Assuming the underlying pavement bed is sufficiently permeable to water, paving bricks are therefore the ideal material to use when you want to keep from sealing the surface. In addition the, scheme used slot gutters with 18 mm wide stainless steel covers to help drain water.

ATTRACTIVE EXTERIOR

An interesting visual interplay was intentionally created with the use of bright red fired clay pavers, and by running them in different directions. For aesthetic reasons, Jens Rossa chose to lay the pavers on their edge giving a more narrow profile without compromising the integrity of the new supportive layer.

The newly paved surfaces, combined with a functional strip of large granite panels, are rounded off with modern city furniture such as benches, bike racks, streetlights and litter bins. A water fountain at the former Looken gate is intended to attract attention and serve as a meeting place in the centre of the city, while removable planters within the marketplace are an innovative highlight which can be moved to free up space for events. Overall, residents and visitors can now enjoy the pedestrian zone which invites you to take a stroll and is already fondly called "the mall" by the locals.



“A city centre for everyone”



Three questions for landscaping architect Jens Rossa of r + b landschafts architektur, Dresden

“Tidy up and rearrange” is the unusual name of the project. How was this name selected?

While retaining the individual character of its residential streets, Lingen needed to develop a coherent pedestrian zone. We did not want a historical reproduction, we wanted an urban design with typical regional accents. We needed to organise residential streets and alleys into well-defined zones, that is, tidy up and rearrange. The element which unifies past and present is the paving brick with its traditional reddish tones.

What role do the paving bricks play? What have you learned?

In Emsland, the use of paving bricks goes back centuries. So we used them as a reference point in the historical old city. Our colours were based on the red and white of traditional brick façades as well as the tones of the wood in the half-timbering. The “Bockhorner Bunt 04” is just the right choice. We’ve had good experience with the paving bricks, especially because they are colourfast and easy to combine with other materials. When laid on their edge, pavers reveal their particularly charismatic personality.

What do you find attractive about jobs like Lingen?

Definitely working with the different groups and people involved, especially the residents and business people. With projects like this, landscape architects don’t remain locked up in an ivory tower, we have to keep gaining the approval of partners, often over a period of many years. We have been working on this project since 2007 and the construction phases that have been finished are really quite attractive. We are hoping to finish the remaining parts soon so the inner-city will be even more enticing.

Information on the office: www.rplusb.de



Renovating the pedestrian zone on Lookenstraße, Lingen

Architect:

r + b landschafts architektur

Developer:

Residents of Lookenstraße in collaboration with the City of Lingen

Pavers used:

Bockhorner Bunt 04

Available formats:

220 x 80 x 55 mm, with chamfer for laying them edgewise

Laid area:

Approx. 3,080 m²

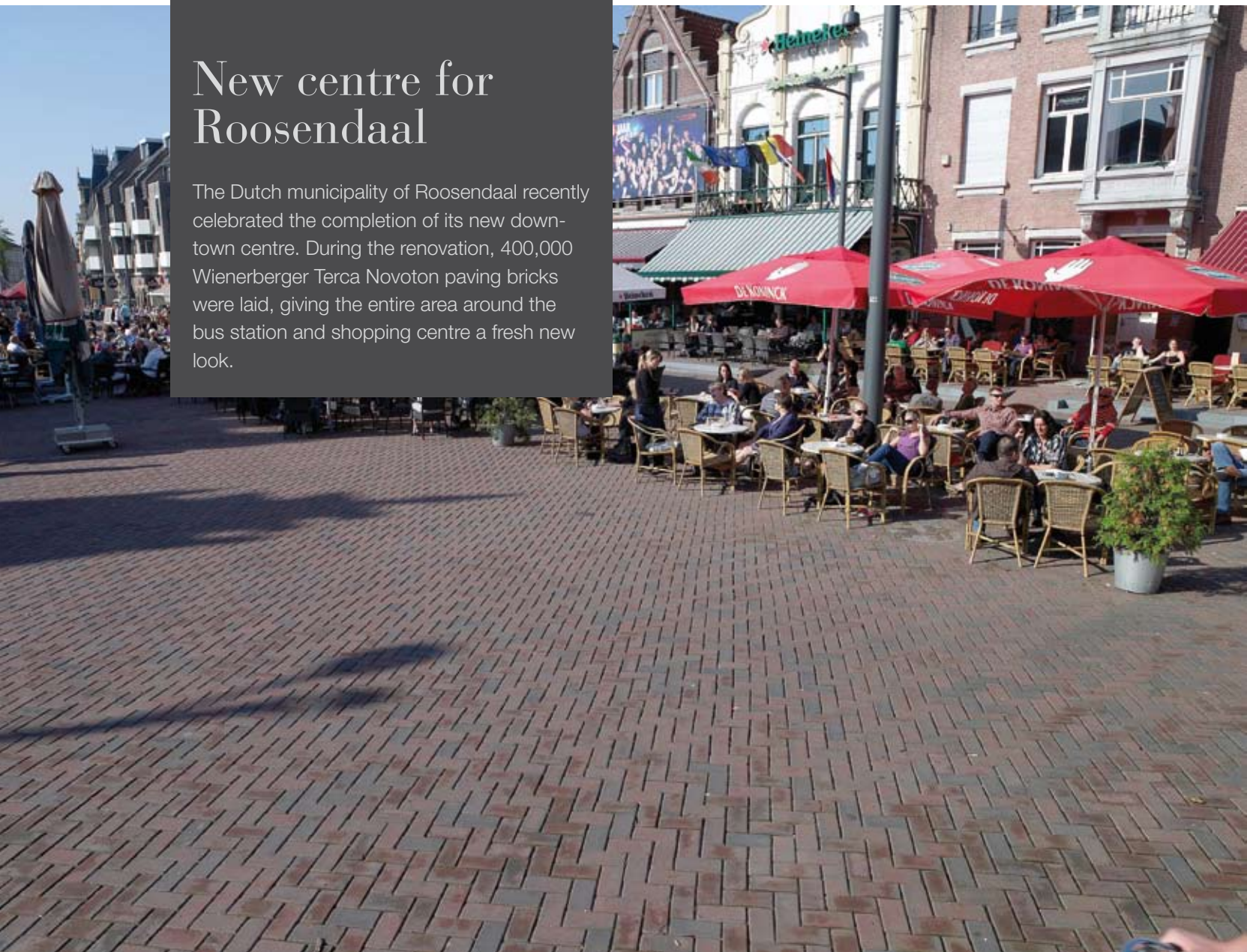
Completion:

Construction phase I: October 2009

Construction phase II: August 2010

New centre for Rosendaal

The Dutch municipality of Rosendaal recently celebrated the completion of its new downtown centre. During the renovation, 400,000 Wienerberger Terca Novoton paving bricks were laid, giving the entire area around the bus station and shopping centre a fresh new look.



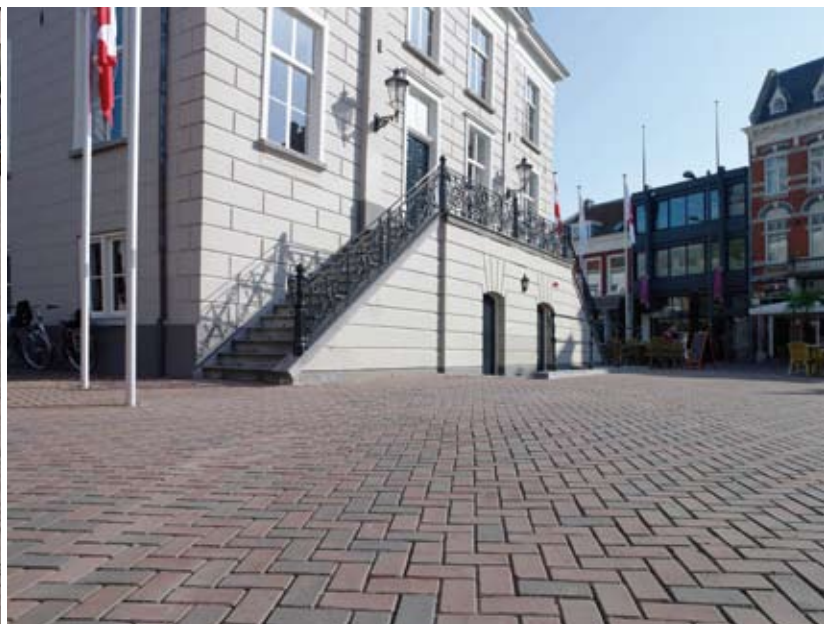
The Dutch municipality of Rosendaal belongs to the Nord-Brabant region, one of the largest regions of the Netherlands. Rosendaal is the sixth largest Dutch city with approximately 77,500 residents living in an area of 107 km². The municipal government consulted Johan Faber, Director of the City Planning Department, in the redesigning of the downtown centre of Rosendaal. He said: "At the beginning of the project, we had to consider the functions of the shopping centre and the required storage capacity, but we also had to consider the wishes of the residents, such as the desire for a car-free centre. The on-site city planners developed a functional masterplan together with a project team. The final, new design was developed on the basis of this masterplan. Happily, the new design was quite well received by both the residents and business community. The downtown area event planners, local restaurants owners and merchants, all enthusiastically embraced the new plan", added Faber.

QUALITY AND AESTHETIC APPEARANCE

Top-quality paving which also improves the aesthetic appearance of the area was high on the wish list for the renovation. Johan Faber said: "The quality of the paving needed to be very good to withstand the stresses of the weekly market and complement the appearance of the traditional architecture, such as the 150-year old train station, as well as modern buildings like the underground garage. The reddish brown and dark paving bricks met all of our expectations not only in terms of robustness, but also concerning the price and the city's image. On the main shopping street, the façades offer a natural reference point. In addition, the downtown area is a reduced-traffic zone. Consequently dealing with traffic only plays a subordinate role."

CARE AND MAINTENANCE

The downtown area of Rosendaal has again been restored to



an attractive inviting place by the renovation. Once the construction is finished, the maintenance phase will begin – a much easier task – and at present, the construction companies are giving the street its final touches.

Roosendaal marketplace

Draft:

Casper Sprong, City Planner of Roosendaal

Project manager:

Johan Faber, Roosendaal Planning and Engineering Office

Developer:

Municipality of Roosendaal

Pavers used:

Terca Novoton, KK 70 (200 x 100 x 70)

Available formats:

WF, DF, KK 70

Laid area:

5,000 m²

Project completion:

2010

A town square that feels like a garden

Espaces-Mobilités is a planning office in Brussels that prepares studies on mobility and planning projects for roads and public squares. The office handles the entire project, from the initial draft though to implementation and building site management. Espaces-Mobilités primarily works with local authorities and public institutions in the capital, in neighbouring Wallonian Brabant and the wider Wallonia region. One recent project of note was the renovation of the bicycle zone in Anderlecht – a highly complex, yet interesting project.



NEIGHBOURS HELP MAKE THE DECISIONS

It began with an initiative from the District Committee of the King Baudoin Foundation for a project entitled “Leefwijk” (liveable district). Together with this foundation, the district committee, the municipality of Anderlecht and other partners, Espaces-Mobilités conducted an extensive survey of the residents in this district.

“It very quickly became obvious that we needed to retain and even enhance the garden district character of the area. This was clearly reinforced by the opinions of the residents of the district,” recounts Cécile Dumont, director of the bike zone project at Espaces-Mobilités. “Surveys of the district committee and local schools revealed that pedestrians and cyclists needed to be granted more space in relation to the heavy local and through traffic. Safety and community spirit were primary considerations.”

RESULTS OF THE SURVEY

Cécile Dumont went on: “We were able to filter out a few important guidelines from the variety of wishes expressed by the local population: The ambiguous character of the square around

St. Joseph’s Church needed to be defined more clearly. The square was assigned the function of a common meeting place with an area for the local market, the fair and a play area, which included sufficiently large green spaces. In addition, the desire was expressed to make intersections and pedestrian crossings safer, lower the speed of traffic with speed bumps and promote pedestrian and bicycle traffic. Further to this, people wanted sufficient lighting for the church and square.”

THE PROJECT TAKES SHAPE

The final plan envisioned a complete redesign all the way from the houses on one side of the space to those on the other. A new traffic system was developed, with vehicles banned around the edge of the square, confined to the main thoroughfare running through the middle. A residential street was created on one side of the plaza while the church square itself was provided with removable posts that allow market merchants access when needed. A triangular lawn was added with chestnut trees planted around the edge of the space while a fenced-off playground was also created with small green spaces, benches and dog area. The entire project covered an area of 7,000 m².



THE IMPORTANCE OF USING THE RIGHT MATERIALS

A mixture of paving bricks, porphyry and cement bricks were used to create the surface. Wienerberger's Terca Oud Hollands – Oud Rotterdam were specified with 3,500 m² laid, interrupted by strips of blue granite.

"This was the largest project we have done so far with paving bricks," said Cécile Dumont. "Apart from their durability and colourfastness, we chose these pavers because of their authenticity. They harmonise perfectly with the surrounding houses and church. In addition, the pavers reinforce the garden atmosphere of the project and provide secure footing for pedestrians even in poor weather."

By renovating the bicycle zone, Espaces-Mobilités impressively demonstrated that materials with an old, authentic look can be successfully incorporated in forward-looking urban rejuvenation projects.

Anderlecht bicycle zone

Architect:

Espaces-Mobilités (Brussels, B)

Developer:

Municipality of Anderlecht

Pavers used:

Terca Oud Hollands – Oud Rotterdam, WF

Available formats:

WF (202 x 50 x 88 mm), DF (202 x 88 x 67 mm)

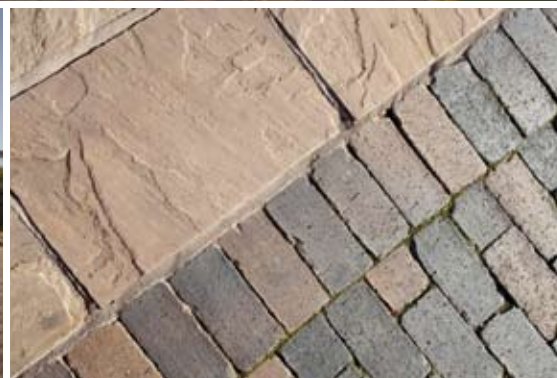
Laid area:

Approx. 3,500 m²

Harmony in Baggeridge-Blue

The traditional styling and modern performance credentials of the Baggeridge Blue Vintage pavers created the perfect combination for Building Design Group's canal-side scheme in Staffordshire.





Barton Marina is a popular waterfront venue, attracting visitors all year round to shop, eat, fish and even catch a show at the sensitively restored canal-side development. With a delightful combination of boutique shops and a relaxed family restaurant, Barton Marina also incorporates heritage walks and nature trails through the neighbouring wildlife area.

Designed to reflect the heritage aesthetic of buildings in the Burton-upon-Trent area, the development was to be done sympathetically and sustainably, with a strong emphasis on the use of natural materials and those with a more traditional appearance. The main focal point for the scheme is the newly constructed Waterfront restaurant overlooking the 130-berth marina, built in the style of a Victorian canal-side warehouse from Wienerberger's Reclaimed Shire Sovereign Stock bricks. To complement the traditional colouring of the brick and grey slate of the buildings, Building Design Group of Tamworth chose the Blue Vintage Brindled Tumbled paver to complete the external landscaping.

The rough textured surface of the tumbled paver not only gives a reclaimed appearance, as with the Shire Stock bricks, but provides additional slip resistance qualities to the walkways around the marina. The Blue Vintage Brindled also enabled the re-creation of a part of the region's industrial heritage as the tone is reminiscent of the engineered Baggeridge Blue bricks that were often used to reinforce the surface of well worn tow paths in the past.

As the continuation of the historic aesthetic was integral to the design of the overall scheme, the use of newly manufactured pavers over reclaimed products won out thanks to the ease of installation of the uniformly shaped blocks. In addition, the pavers offer strength and durability required for a development with a lot of footfall and regular vehicle deliveries. Mike

McAneny, from BDG, said: "It was important for the external landscaping to work in harmony with the traditional styling of the buildings which line the marina, and we were keen to create a seamless link between those structures, the pathways and the canal below by using a natural material such as clay. The Blue Vintage Brindled paver provided the traditional aesthetic we were looking for, along with the essential performance credentials necessary for an area which would be subject to heavy pedestrian traffic. The result is an attractive, popular scheme which creates fond memories of times gone by, through the use of materials which emulate heritage products while encapsulating modern performance characteristics."

Barton Turns Marina, Burton upon Trent

Architect:

Building Design Group

Client:

Barton Turns Development Ltd.

Pavers used:

Baggeridge Blue Vintage Brindled Tumbled

Facing bricks used:

Reclaimed Shire Sovereign Stock Brick

Available formats:

215 x 102 x 65 mm

Laid area:

1,200 m²

Carte blanche for garden green

Sint-Martens-Latem is a residential district at the edge of the Belgian city of Gent where privacy, calm and quality of life are highly valued. There you can look out across the Leie River or the golf course from the handsome residential properties in the area. In earlier times, the village was a favourite residence of numerous artists of the Latemse School. Famous artists such as Gustave Van de Woestyne, Valerius De Saedeleer, Albijn Van den Abeele, Constant Permeke and George Minne found inspiration along the banks of the Leie. The natural beauty of the village always ensured it has been considered a place of prominence. Designer Philippe Dejonghe was recently commissioned to plan and create a garden at this beautiful location.





AN ADVENTUROUS JOURNEY

After their studies, many young people like to travel the world before they finally settle down. For Philippe Dejonghe, from the West Flemish town of Beveren-Leie, this adventurous phase lasted eight years. With a university degree in athletics, he often found himself mingling with foreign cultures and nationalities while working first as a sports and ski instructor, and then as a PR and entertainment director at several international hotel chains. At the age of 30, he then decided on a career change and returned to his homeland.

FOLLOWING THE CALL OF NATURE

Philippe Dejonghe inherited a confident sense of shape, space and proportions from his architect father, and had always expressed an enthusiasm for nature. These became the two motivating factors for his choice of landscape design and garden planning as a career. After the necessary training and internships he made the switch, first into garden care, followed by employment as horticultural entrepreneur and designer. Today, six years on, he manages a team of five employees and oversees entire projects, including masonry requirements, path reinforcement, electricity and the installation of automatic gates. In designing his gardens, he always works alongside colleague and friend, chief architect, Bert Van Wehaege.

HANDS-ON STARTING WITH THE SHELL CONSTRUCTION

Their appointment to the project in the artistic village of Sint-Martens-Latem posed a number of challenges for this new small business, having been charged with designing the grounds for a very large house on 4,000 m² of land that once had been a sunken meadow and a forest. A great deal of initial clearing was therefore required and, to sufficiently elevate the level of the ground, 200 truckloads of dirt had to be delivered. It is always advantageous to involve the garden architect at an early stage of the construction work and in this case their involvement was right from the start. The contractors had only just started the shell construction of the house, and it was rather difficult to properly determine its proportions with only the building plans as a reference. Add to this the presence of plant equipment, delivery vehicles and workers on site, it became increasingly difficult to lay out the garden. Nevertheless, Philippe and his dedicated team of three were able to complete the garden in four months to everyone's satisfaction.

CARTE BLANCHE FOR THE DESIGNER

The design of the house emulated a traditional parsonage, with a classic flavour and a number of rural-style elements. The residence extends over the entire length of the site and includes the main house, neighbouring and isolated build-



A double stretcher bond border serves as a transition to the gravel area or as edging for the lawn.

dings, the parking area, terraces, a swimming pool and a pool house. Philippe Dejonghe said: "We were given carte blanche for this garden project, and the developer gave us unlimited freedom to design, of course with the proviso that we take into account the building style of the residence. Our initial task was to develop a plan that harmonised all the elements of the house in a consistent and logical manner. The extensive terraces with neighbouring garden rooms provided the ideal unifying element. We decided on a combination of blue granite and large 60 x 60 cm floor tiles and Terca paving bricks, Authentica Retro Havanna, by Wienerberger. The paving bricks harmonise perfectly with the roofs and contrast very attractively with the blue granite. Personally, I like to use a lot of paving bricks. They offer a robust surface, are extremely durable and therefore suitable as driveways,

plus they require little maintenance. In addition, the range of colours is very large which allows for creative and original patterns. The 300 m² of pavers that we used in this instance were laid in a half bond pattern. At certain places, we used the 'changeover shape' for the pavers running from the edge to the middle. In addition, we used paving bricks in a double stretcher bond to form borders, as a transition to Vittel gravel or as edging for the lawn."

A FULLY GROWN GARDEN FROM THE BEGINNING

Bert Van Wehaege adds: "In our plan, we decided to use distinct lines of vision to connect the garden rooms, terraces and buildings. Since the developers wanted a garden that was almost fully developed, we chose to plant large trees, perennials and shrubs in many places and favoured plants



that retain their leaves in winter and remain green. The garden therefore retains its structure over the entire year. The plants primarily consisted of groups of Portuguese cherry laurels, rhododendrons, boxwood and yew trees as well as holm oaks as a visual barrier. In addition, we did not want to impair the view from the driveway entrance to the house, so we located the private parking area behind the house." Paving bricks are one of Philippe Dejonghes' favourite materials. He uses them frequently even in small garden designs and where the projects are very simple. He makes it a priority to leave room for incorporating changes to the design that the client may demand in the future, and says they give him the freedom to make those amendments at a later date.

Private house, Sint-Martens-Latem

Garden architect:

Bert Van Wehaege

Garden building:

Philippe Dejonghe

Developer:

Private

Pavers used:

Authentica Retro Havanna, WF

Available formats:

WF (201 x 48 x 88 mm)

Laid area:

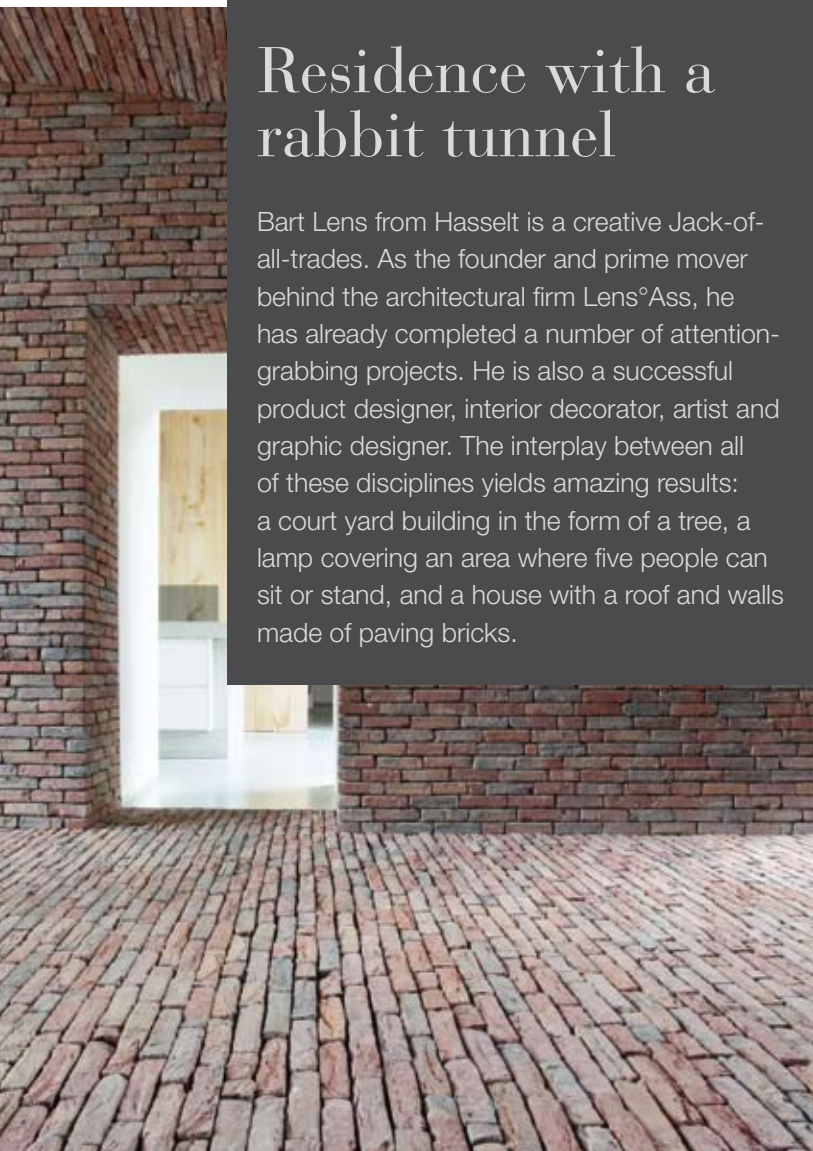
Approx. 300 m²

Project completion:

2008

Residence with a rabbit tunnel

Bart Lens from Hasselt is a creative Jack-of-all-trades. As the founder and prime mover behind the architectural firm Lens°Ass, he has already completed a number of attention-grabbing projects. He is also a successful product designer, interior decorator, artist and graphic designer. The interplay between all of these disciplines yields amazing results: a court yard building in the form of a tree, a lamp covering an area where five people can sit or stand, and a house with a roof and walls made of paving bricks.



In the village of Gaasbeek in the rolling hills of the Pajotten region of Belgium, there stood an old farm that consisted of several individual buildings. The new owner, a veterinarian, wanted to move his practice there and convert it into a residence for his family of five. To accomplish this, all the rooms and disparate parts of the building needed to be connected. In addition, the historical aspect needed to be treated with respect yet accommodate current and future residential needs, with old and new having to transition seamlessly into each other.

One of the most notable elements of the renovated structure is a long angular walkway that was assembled completely out of paving bricks. This connects the veterinary practice with the living area and the garden, and leads to the courtyard which was also paved with bricks. Terca Hortus Althea pavers were chosen for all these different areas of use. The roof of the 'paver pipe' is easily visible from the Gaasbeek Castle which overlooks it, and has been named the "rabbit tunnel" due to its eye-catching exterior.

The idea of this connecting tunnel is part of Bart Lens' sculptural approach of connecting individual elements on a large visual scale. The rabbit tunnel was created with masonry on all sides. The floor, walls and top and bottom sides of the roof were completely covered with Hortus Althea paving bricks while brick slips were used for the underside of the tunnel roof. All other parts were built using traditional masonry.

In this project, numerous different materials were used to produce a timeless effect and a harmonious overall impression. When seeking to integrate the new structures in the existing building complex, it was decided to use pavers which also nod to a connection with the agricultural surroundings. This same type of Terca paver was used for the house and garden walls, the terraces and courtyard. Overall, approximately 900 m² of brick slips and clay pavers were used for this project, combining well with other materials, such as the oak parquet and polished concrete used for the floors. Solid elements of blue granite were also used, and the walls were covered with plaster and different types of local woods.



Lens°Ass architects use the approach of a “tactile atmosphere” in which the overall experience is considered. For Bart Lens, architecture means more than creating pictures and rooms or finding a technical solution. Architecture is a complex creative process that aims to fuse an ultimate synthesis of all these elements with the end result always becoming more than the sum of its parts. The designer is always looking for new subjects and approaches to composing and designing structures. The selected materials and the project in Gaasbeek is an excellent example where the unexpected appears surprisingly natural.

This house is full of surprises for both occupants and visitors. Even the smallest window opening was designed to be a perfect frame for the time-honoured landscape and the nearby 17th century castle, the architecture and environment providing mutual inspiration.

Private house with veterinary practice, Gaasbeek

Architect:

Lens°Ass Architekten, Bart Lens (Hasselt, B)

Pavers used:

Terca Hortus Althea, KF

Available formats:

KF (178 x 43 x 85 mm), WF (208 x 48 x 98 mm)

Laid area:

Approx. 900 m²

Project completion:

2010

Classic style and easy maintenance

Clay pavers are redefining style in some of the most prestigious communities in the United States. General Shale's Full Range red pavers, which are prominently featured in Kensington Parc, an exclusive new development located just outside the nation's capital, are representative of this trend.





Kensington Parc is a refined neighborhood in the heart of thriving and diverse urban Fairfax County in northern Virginia. Fairfax County is described as a "prosperous but quiet bedroom community" noted for rural charm combined with metropolitan convenience. As the most populous jurisdiction in both the commonwealth of Virginia and the Washington, D.C. metropolitan area, the more-than-one-million-resident population of Fairfax County exceeds that of seven states. The county covers 385 square miles, and the median household income is one of the highest in the nation. The county's housing market has retained its value and has experienced exponential growth during the past 10 years. The landscape is defined by spacious luxury homes built on generous acreage lots, with public access to lakes, parks, golf courses and more than 200 shopping centres.

Housing areas in Fairfax blend well with the county's historic sites, including the U.S. military installation at Fort Belvoir, the neoclassical Georgian home of George Washington on the banks of the Potomac River, the 18th-century Georgia mansion that was home to statesman George Mason, and various farms, plantations and churches amid other notable structures.

Kensington Parc features a distinctive enclave of city-style single family homes and grand townhomes with full brick exteriors and distinguished architectural character. Homes range in size from 2,700 square feet to more than 5,000 square feet and represent exceptional value for the area. With soaring gables and full brick exteriors, the architectural styles combine classic appearance with easy maintenance. A number of factors influenced the choice of General Shale brick pavers for this project, according to B.J. Brixius, owner and CEO of Village Landscapes, the landscaping contractor for Kensington Parc. "The

pavers are easy to install, cut and adjust, and they blend well with the all-brick exteriors of homes in the area," Brixius says.

The Full Range red pavers used in Kensington Parc courtyards, streetscapes and outdoor living spaces enhance the elegant brick walkways and patios throughout the neighborhood, completing a well-designed look that makes this unique community a buyer's top choice in Fairfax County.

Kensington Parc, Virginia

Landscape Contractor:

Village Landscapes, Nokesville,
VA (Inhaber/CEO, B. J. Brixius)

Client:

NV Homes, www.nvhomes.com

Pavers used:

General Shale Full Range Red

Available formats:

203,2 x 57,2 x 101,6 mm (2 1/4 x 4 x 8 Zoll)

Laid area:

929 m²

Completion:

September 2010

As if cast from a single mould

The varied tones of the Aquata™ Telford paver proved the perfect complement to Wienerberger's striking Hectic brick for Bryant Priest Newman's sustainable community centre in Lichfield.





The Darwin Hall community centre lies between the Darwin Park Estate and Chester Road area of Lichfield, at the end of a long, landscaped avenue with open views onto Lichfield Cathedral. Given the high profile location of the new building on Cathedral Walk, it was essential the design reflected the character of the surrounding built environment, was sympathetic to the natural landscape and respected the site's open views, while also serving as a local landmark and a focal point for the community.

Appointed by Lichfield City Council, architects Bryant Priest Newman were very conscious the building should be welcoming, easily accessible and sustainable, as well as having a strong aesthetic appeal. The contemporary low-rise building they developed is eye-catching both for its architectural simplicity and the exceptional variety of tone and texture of the Hectic range facing brick used on all four elevations, with Hectic brick slip cladding used to maintain the illusion in the punched out oriel windows.

Struck by the authentic 'hand-crafted' appearance and beauty of the Hectic brick, the architects initially wanted to use it to create the external landscaped areas, forming an unbroken connection between the building and its surroundings. However the similar colouring of the Aquata Telford paver, combined with its durability credentials and the advantages of being part of a sustainable urban drainage system, offered the designers the ideal solution.

The new shaped paver, redesigned with the interlocking nibs recessed from the surface to give a more traditional aesthetic, provides the wearing course over the system's permeable bedding aggregate, through which surface-run off can drain into the natural rainwater systems. The system enables the building to maintain its independence, as a self sufficient structure without links to the mains sewer system for drainage, and acts as an exemplar project in terms of its sustainability.

Project architect Gavin Orton said: "Looking at the external landscaping from a purely aesthetic point of view, we were keen

to maintain continuity between the building and its immediate surroundings, and planned to use the Hectic brick until we realised the Aquata Telford paver could achieve a similar look and help achieve our sustainability aims." The finished scheme is warm, dynamic, striking and accessible. "Close up, each brick becomes an individual piece of tactile craftwork where passers-by touch, feel and stroke their way along the elevations. The muted purples and reds of the Aquata Telford paver is an ideal partner to the Hectic brick and helps create the illusion of the building rising from the landscape.

The community centre itself is already proving popular with residents and provides an interesting and sympathetic addition to the landscape. It reflects the character and charm of Lichfield as a historic city, while celebrating the 21st century and the diversity of both the people using it and the breadth of activities centred there."

Community centre, Lichfield

Architect:

Bryant Priest Newman Architects

Client:

Lichfield City Council

Material supplier:

Greswold Construction

Pavers used:

Aquata™ Telford (permeable clay paver)

Available formats:

200 x 100 x 65 mm

Laid area:

500 m²

Completed:

2009



INSPIRATION IN A GRID

Jacaranda Square is the first newly designed public area in the former Sydney Olympic Park that was built for the 2000 Olympic Summer Games. While redefining the entire Olympic area as a vital new centre for the city and its inhabitants, a design competition was advertised in 2004 and won by a consortium of planners consisting of Aspect Studios, McGregor Westlake Architecture and Deuce Design.

The masterplan of the winning project entitled “The Everyday Stadium” picks up on the Olympic history of the location and simultaneously gives it a completely new public meaning. The structure of the newly designed square is based on the spatial layout of a classic stadium: An orthogonal terrace with seats and walls as an allusion to spectator bleachers encompasses a large open area (a playing field) protected by a group of trees on one side and a shade-providing steel canopy on the other, which symbolises the protective roof of the stadium.

In contrast to the existing structures and squares in the Olympic Park, the newly designed Jacaranda Square comprises a medium-size, strictly rectangular 50 x 80 metre area laid out in an orthogonal street grid surrounding one of the most ambitious structures of the Olympic Park, the train station. The square is aligned precisely with the axis of the train station hall, and its lengthwise side is flanked by new commercial buildings that will serve as a future heart of the new city centre.

TRIBUNE

A brick wall built by hand creates the “spectator stands”. Viewed from the street, this forms a multifaceted frame with a refined pattern of green-glazed bricks, alternating with classic facing bricks that are arranged to emphasise the corners and entrances to the park. The designers describe their composition as a “brixel pattern” comprising glazed and classic bricks and is a play on words with reference to the pixels used in similarly regimented computer screen displays. Seats made of prefabricated cement elements are provided on the inside of the walls for use by visitors.

PLAYING FIELD

The central, open and freeform area of the playing field contrasts with the strictly geometrical grid that surrounds it and offers a refreshing counterpoint with its overall design. The geometry of the circle connects the different structural and design elements of the square: the oval lawn, the adjacent footpath



with its paving bricks laid edgewise, the canopy with its inside edge curving towards the square and the circular café pavilion.

THE STEEL CANOPY

The canopy was designed with a minimum number of supports, which also act to divide the square. Five metres high and approximately 60 metres long, the canopy's inner edge frames the space and is a clearly identifiable and highly visible trademark of the new city centre.

USE OF FACING BRICKS AND PAVERS

Facing bricks and pavers are the defining elements in the design of Jacaranda Square – on one hand they have outstanding visual and technical qualities, and on the other a historical reference to the neighbouring Homebush brick pit which supplied the entire region with brick products for decades. In a nod to the special history of the location and its pre-Olympic past, facing bricks and paving bricks were used abundantly when redesigning the square. The material provides the park with its unmistakable character. Glazed bricks in four different colours were used to cover the supporting walls. Blue pavers identify the steps and ramps. The paving bricks are laid on edge on the paths and squares – the reduced dimensions generating more visual energy along the path. Eye-catching contrast is also created by combining new, glazed, and recycled old bricks in the supporting walls and paved paths.

Jacaranda Square, Sydney

Landscape architect:

ASPECT Studios Pty Ltd.

Architect:

McGregor Westlake Architecture

Graphics design:

Deuce Design

Developer:

Sydney Olympic Park Authority

Laid area:

4,000 m²



The Rudgwick brick made the perfect backdrop to the magical 'Snow White's Slumber' garden.

MAGICAL MOMENT

The rustic appearance of Wienerberger's famous Rudgwick brick made it the perfect choice for a fairytale garden on display at the Hampton Court Palace Flower Show, one of the UK's most prestigious horticultural events. Visitors to the show were delighted by the magical garden "Snow White's Slumber" designed by Raine Clarke-Wills and Fiona Godman-Dorington, which won bronze in the small garden category.

The pair selected the sumptuous texture of the Rudgwick Restoration Red Rustica brick to create a formal courtyard garden in which the floral representations of Snow White, the seven dwarfs and the wicked witch were created. Snow White's casket, which was made from recycled car parts, was suspended above cascading water. This created an imaginative, theatrical illusion, with the soft planting off-set by the rough texture of the brickwork which made up the external walls and pathways.

Designer Raine Clarke-Wills, of Raine Garden design, said: "The garden concept was a combination of the old and the new, designed to convey the dreamy fairytale scene within a contemporary context, in a way that would inspire visitors to recreate the impression in their own gardens. We needed a brick which would fit into that design scheme and had considered using reclaimed brick to create the right finish. However, we were delighted to discover the Rudgwick brick and felt it was the perfect choice to compliment our plan because it is, in itself, a combination of old and new. The Rudgwick's heritage appearance has the rustic, lived-in look we wanted to achieve, with a range of different colour tones running through its surface. But, because it is a new brick, it is readily available, more affordable than reclaimed and uniform in size, making it easier for us to construct the garden's walls and pathway."

Clarke Wills goes on: "The garden drew a lot of interest from visitors and many mentioned the authentic appearance of the bricks. Some even asked where we had found them, expecting us to say they were reclaimed, so it was a pleasure to inform them that the bricks are new and available for anyone to recreate our design."

The distinctive characteristics of the textured Rudgwick brick has made it a popular choice for heritage and restoration projects. Manufactured using local weald clay in one of the last remaining clamp-fired kilns in Europe, the bricks are fired slowly to create flashes of distinct colour from reds and purples to blues and yellows. Rudgwick bricks are available in 65mm, 50mm and imperial brick sizes (73 mm). In addition, the standard brick ranges can be mixed to create a new blend and a variety of bespoke finishes such as tumbling and mortar washes can be readily specified to create a unique finish.

Hampton Court Palace Flower Show

The Hampton Court Palace Flower Show is sponsored by the RHS, the Royal Horticultural Society, and offers suggestions and ideas every year for gardening enthusiasts. Designers are given free reign to produce show gardens based on the template of English decorative and kitchen gardens.

The garden show in West London offers elegant topiary gardens and green artistry against the impressive backdrop of the Hampton Court Palace, the former residence of Henry VIII.

Additional information:

www.rhs.org.uk

MORE INFORMATION ON PAVERS CAN BE OBTAINED FROM

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