

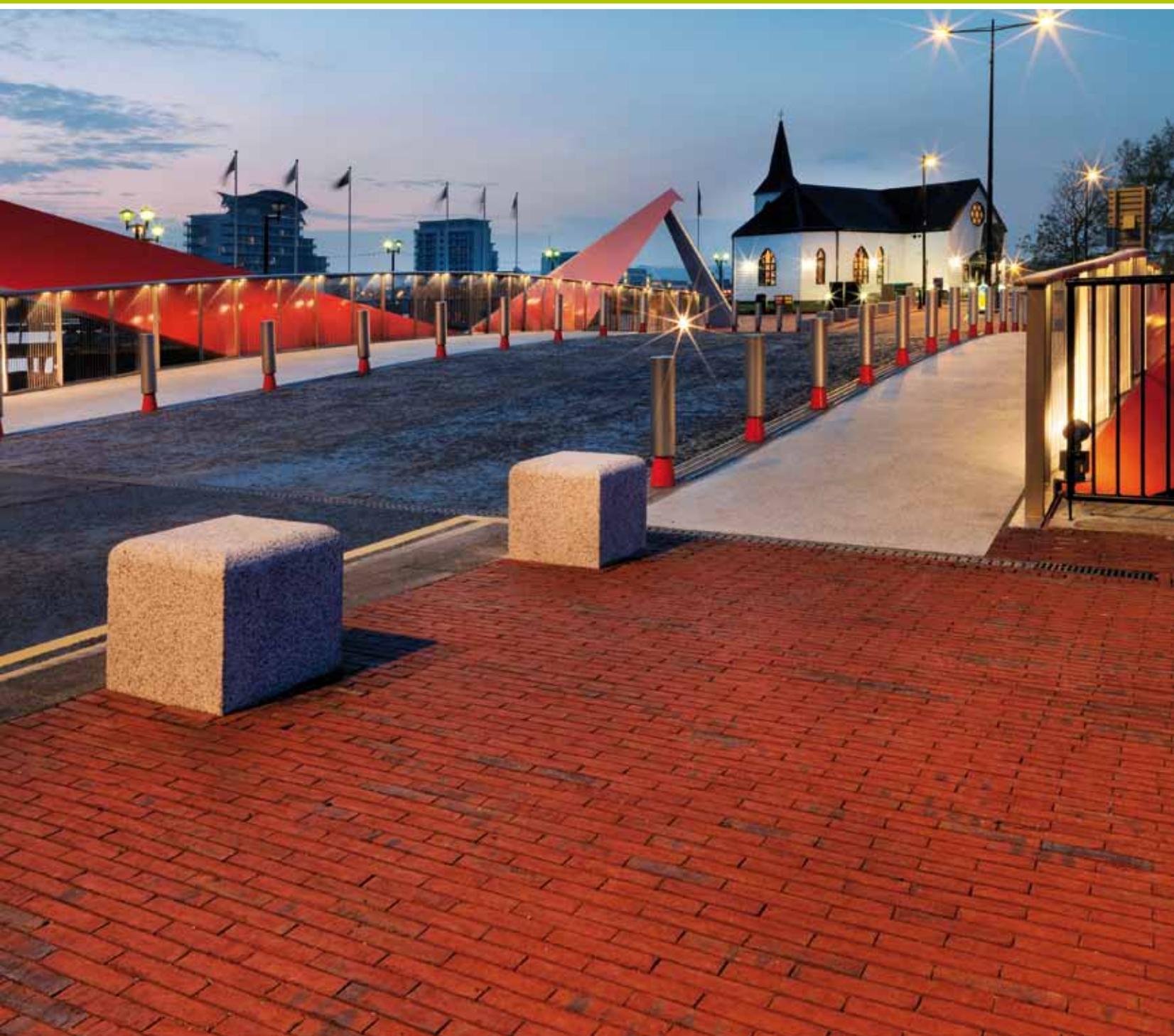
GARDEN & PLACE


Wienerberger
Building Value

 **Славдом**

www.gardenandplace.com

2012



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Photo: Christian Dusek



Dear reader,

Do you count yourself among those people that like to get their hands dirty in the garden or those that would rather enjoy it from a comfortable chair? Garden doyen Ben van Ooijen knows all types of gardeners – from the more hands on to the armchair enthusiast. For “Garden & Place” he reveals his top tips for successful gardeners, while also looking critically at his own trade. In particular he turns his attentions to the important part clay paving can play in creating beautiful, functional spaces. The natural provenance of these products gives them unique qualities. The range of colours, sizes, shapes, textures and tones available allows huge potential for creative design.

This publication is full of fascinating case studies from around the world which we hope will act as an inspiration for your own garden designs.

Warm regards,
Zdenka Debartoli

*Head of Product Group Management
façade and ceramic paving*

P.S. Save the date – we highly recommend the World Horticultural Expo Floriade 2012 which is being held from April 5th to October 7th in Venlo, the Netherlands.

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www.gardenandplace.com



Now also available in
'extra rough':

WIENERBERGER PROVIDES INCREASED SLIP RESISTANCE

Wienerberger has extended its non-slip paving range with the development of an 'extra rough' product type. A special manufacturing process creates a specifically textured surface, which provides increased slip resistance in snow and icy conditions. The rougher surface gives the paver a rustic look and the range

is expected to be popular for projects in areas of high footfall such as civic squares and pedestrian zones which demand the highest levels of health and safety considerations.

A special manufacturing technique yields pavers with a specifically textured surface, which ensures increased slip resistance.



The technique can be applied to any paver variety. Wienerberger classics, such as "Penter red/blue brindle", can be produced in an "extra rough" style", giving them added performance value in addition to their beautiful, heritage aesthetic.



In the Dutch pavilion visitors can experience the garden design concept "Relax in the City".

Floriade 2012

WIENERBERGER AT FLORIADE 2012

More than 2 million visitors are expected to visit the Floriade 2012 Horticultural World Expo at Venlo in the Netherlands this summer. This major event, which takes place once every 10 years, promises to be a feast for all the senses. Exhibitors from 35 countries create a "theatre of nature" with elaborately designed gardens and pavilions. The Floriade Park covers 66 hectares and encompasses five unique themed worlds separated by wooded areas. Each world has its own decor, programme and activities, worlds in which visitors will see, feel and experience nature in totally different ways. Wienerberger features extensively with a variety of clay paving solutions for smaller gardens and larger landscapes. These include the high profile "Office Garden 2020" at the Belgium Pavilion, directly next to the main entrance. Here designer Jo De Clercq, who has received accolades for his concept designs, particularly for corporate outdoor spaces, demonstrates it is possible to combine a relaxing, contemplative atmosphere with the daily life of a typical office. Another pavilion, entitled "Relax in the City", welcomes visitors into a green, fragrant, peaceful oasis of urban deceleration. This extraordinary urban space is enhanced through the use of beautiful, natural clay pavers. The Netherlands' number one gardening expert, Ben van Ooijen, also uses Wienerberger products to striking effect as part of his installation. More information about this international garden spectacular can be found at www.floriade.com



Book tip

High above the bustling streets of the City that Never Sleeps, another world opens up. In a universe of quiet and natural beauty – stands the realm of New York's legendary roof gardens. Just as their Babylonian predecessors, these urban oases are real wonders of the world. Well concealed amid concrete canyons, they offer a retreat from New York's relentless pace of life. Here, in the quiet places of this international city high above the hustle and bustle, one can simply while away the time and enjoy the peace and quiet.

New York Rooftop Gardens

Charles de Vaire

teNeues Verlag, Kempen 2011, hardback

220 pages, more than 200 coloured images

ISBN-10: 3832794719

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Ben van Ooijen's **FOUR TOP TIPS FOR HAPPY GARDENING**

Show gardens: In the small Dutch town of Appeltern, Ben van Ooijen presents his stunning design vision for happy gardeners (see pages 18-19).

1. The relationship between plants and paving

A garden without plants is not a garden. In order to transform an outdoor space into a garden, reserve at least two-thirds of the total surface area for growth: plants, lawn, a pond and so forth. To make a plain garden into a functional and attractive space for enjoying, consider using paving to create designated spaces using paths and patios.

2. Volumes and Verticals

The second recommendation is to create height by ensuring around half of your plants are taller than 90 cm. The taller plants or green elements, such as blocks of hedging or plant beds, act to create an atmosphere of suspense, depth and intimacy in a garden, making the whole experience much more intense.

3. Privacy

The first two basic conditions are in the garden owner's hands. The location can be more difficult to overcome. The neighbours you can hear or those who overlook can have an effect on your privacy and therefore feeling of contentment. Screening can, for example, be created with a row of trained trees or hedging. Other solutions are: a plant covered pergola, spreading trees, an alternative spot for the patio, noise-reducing screens, green sluices with gates, parasols, solar sails, and screening hedges around the patio.

4. Energy Balance

A garden should not demand more time and effort than you are able to invest. Attempting to reduce the amount of maintenance that is required by simply paving the entire space is detrimental to the whole garden experience. And it is unnecessary as there are plenty of other options for minimising the work required and still having a well balanced space, whatever the size. For example, a perfectly clipped lawn needs to be mown 30 times a year, whereas a natural meadow requires less maintenance, a privet hedge is clipped twice a year, while it does no harm to miss trimming an ivy hedge for a year.

BEN VAN OOIJEN



Ben van Ooijen, age 57 from Holland, started a modest gardening business in 1986. In order to allow customers to experience his vision first hand, he has laid out 200 show gardens in Appeltern, in the Netherlands, which now cover 14 hectares. Interest in his unique concepts has been shown from

countries such as Sweden and Germany.

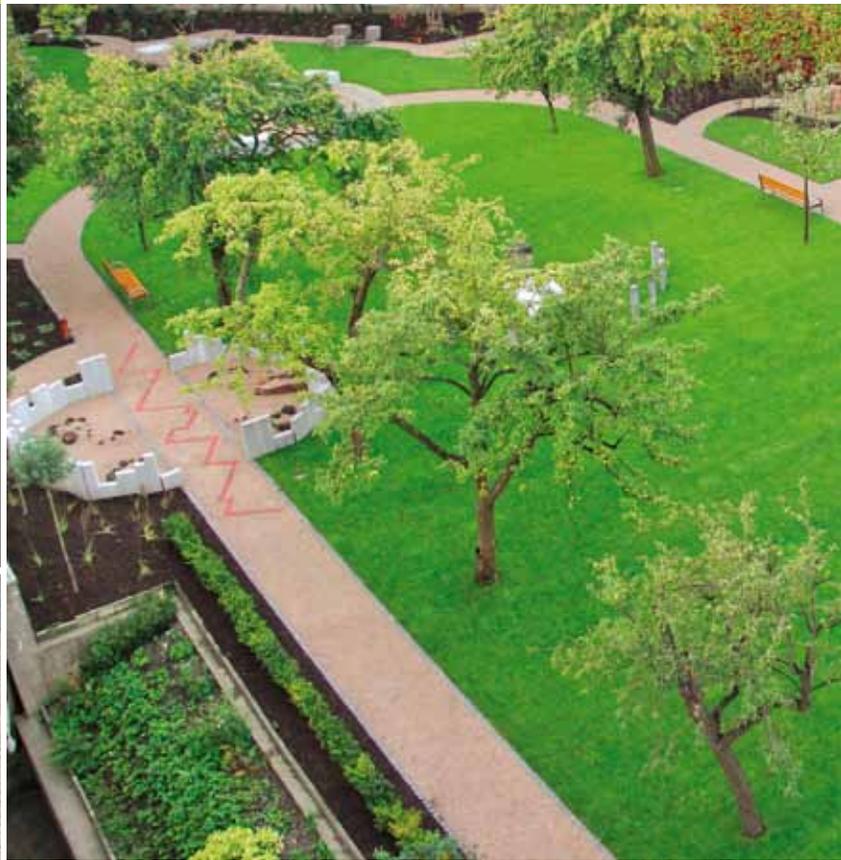
www.appeltern.nl

Garden of Religions

In the centre of the bustling, multicultural Rhine city of Cologne, a special garden for peace and tranquillity has been created. Germany's first Garden of Religions was opened on the site of a former Jesuit monastery. The initiator was the Catholic social work association INVIA which provides support for girls and women in the city.



In Cologne's bustling city centre, the Garden of Religions is an oasis of calm and contemplation. A circular walk with eleven stations representing the different faiths of the world, was laid out in a former monastery garden. Red-brindle paving bricks support the guidance system of the paths and add deliberate accentuations for the visitors.



The idea and design for the Garden of Religions came from landscape designer Maria Mandt (BDLA) from Bornheim. Within just 17 weeks, the team managed to create a spiritual space and fill it with life which is considered to be without equal. Relics of the original cloister garden now form the core. Among them was the old avenue of fruit trees, which was carefully protected during the construction phase.

The idea was to create a garden to encourage expressions of faith and the exchange of ideas of various cultural and religious origins. Mandt has assigned an area to each of the five world religions. Under the open sky, surrounded by greenery, visitors are invited to discover eleven stations. Five of them stand for Christianity, Judaism, Islam, Buddhism, and Hinduism and are arranged chronologically according to the development of the religions. Symbols and writing in stone add visual focal points while the use of phonetic spelling supports this visual communication. Interactive elements such as a sundial on the ground, which only works if a person gives shade and thus acts as a hand, encourage interaction between visitors, while asphalt areas that can be written on with chalk heighten the experience for younger visitors.

PAVERS AS STYLE-DEFINING ELEMENT

Visitors enter the garden between the refectory and the old sacristy of the monastery building. Due to their arrangement as

paved strips at an angle of 45 degrees, the footpaths from red-brindle Terca pavers act as points of reference and a guidance system through the garden. The area Maria Mandt had to work with comprised 2,650 square metres in total. The successful landscape architect contributed plenty of creative experience to the project, having studied art in the USA and has since staged numerous exhibitions incorporating paintings, sculptures and installations. Her design includes vibrant colours and surprising forms that attract attention. There is no reserve in her expression but, at the same time, nothing appears ornate or imposes upon the space.

The garden campaigns for a dialogue between the religions. This ambition is reflected in the variety and combination of contrasting and complementary materials. Various paving materials for footpaths and terraces were used, while trees, raised beds, hedges and shrubbery create a diverse vista. In among the sculptures and graphic patterns which encourage communication, are patches of grass which simply invite visitors to walk on them and sit down. Even having a barbecue is possible and the adjoining restaurant "Refektorium" is open to visitors for longer stays.

"The client's specification included the reuse of the existing grey concrete paving stones in the courtyard, which were less than four years old. This requirement presented me with the challenge to work out the charm of the old ensemble, combine



it with a plain, functional material and still avoid “painting over”. The improvement is achieved through the use of red-brindle coal-fired pavers,” the architect explains. The landscape gardeners working with landscaping master Heinz Klein from Bornheim faced the logistical challenge of storing the concrete stones temporarily while transporting all building materials - such as excavated material, gravel, stones, paving bricks, soil, lawns, and plants – by means of wheeled loaders through the listed entrance gate, which did not allow the passage of lorries.

The experienced landscaping master and his team were convinced by the good workability of the clay pavers and their vivid colours. The material, with its calm earthy hues is characterised by a straightforward colouring throughout. It does not appear loud and does not bleach. The integration of the natural material of the clay enhances the overall project. Mandt also used the paving bricks for a meander-like red band imbedded in a water-bound pathway surface, which symbolises the subject of “desert”.

Visitors still remembering the old overgrown terrain are hardly able to dampen their enthusiasm. Meanwhile, the Garden of Religions has become a magnet for new visitors. “At the opening, guests included representatives of the many religions who were pleased with the achievement of creating a garden that encourages active dialogue,” adds Sibylle Klings, managing director of INVIA in Cologne.



QUESTIONS TO LANDSCAPE DESIGNER MARIA MANDT

The Bund Deutscher Landschaftsarchitekten (BDLA) website hails your project in Cologne as its “Garden of the Month” for November 2011. The project has seen your fellow professionals pay particular tribute to both you and the client.

Many heads and hands were involved, from the initial concept idea to the implementation and completion, which together have achieved something magnificent. For me personally, the Garden of Religions was – and still is – also a matter close to the heart. The visitors joining a guided tour of the garden or wending their own way can feel this. After all, this spiritual green oasis which has been realised in the centre of Cologne, is open to everybody including groups and school classes from Monday to Friday free of charge. This integrated, social approach of INVIA must be highly regarded.

You have not just studied landscape architecture but you also work as a visual artist and environmental educationalist. To what extent have your experiences been incorporated in the project?

In such a project there are numerous issues that come to the fore which do not fit the classic spectrum of a landscape architect. Here, creative thinking and freedom in the use of materials and colours was required, just as I approach my paintings. The decision for a coloured paving brick, for example, has opened up the possibility to purposefully add accentuations to the project. Those who want to get people of various origins and age interested in a visit to a natural setting on the subject of faith, must also think about interactive solutions to engage them, such as sundials with people acting as hands, surfaces that can be temporarily painted with chalk or the deciphering of messages through symbols or phonetics. Particularly well accepted is the “Game of Life” installation. The visitor is asked to roll a wooden ball along concentrically arranged circles to the centre; this is actually not that easy because the ball has a dent. This is representative of the irregularities we come across in life and have to overcome.

The clarity of materials is very important in your concept. Where did these considerations come from?

Clarity regarding the choice of material and colouring is necessary to design an interior so convincingly that it is perceived as pleasant and easy, and one enjoys the stay. In order to turn the use of colour into a sustainable experience, bleaching must be avoided, otherwise the accentuations would shift. Due to clay pigments, the paving bricks preserve their appearance for many decades. I simply like this quality.

Further information: www.gartenundkunst.de, www.bdlade.de

Garden of Religions, Cologne

Architect:

Landscape architect Maria Mandt (BDLA), Bornheim

Client:

IN VIA e. V. Cologne

Pavers used:

Terca Westfalen

Available formats:

200 x 100 x 51 mm

Paved area:

200 m²

Completion of the project:

September 2011

Facade and garden paving become one

Since 2005, architect couple Hans Weemaes and Karin Janssens from hk architecten in Antwerp, have worked together in the design of private residences full of character. In both their renovation and new build projects, the pair aim to create a balanced unity between interior and exterior, between home and surroundings, between living, working and relaxation. Frequently, they also design the furniture and garden, including terraces and paving, throughout the course of their projects. In 2009, they conceived a single-family house in Brecht, and here they were at liberty to give free reign to their architectural vision. The result is a conspicuously inconspicuous residence, where strict volumes seamlessly and playfully fit together and where the paving in the garden cannot be distinguished from the property facade.





MONOLITHIC STRUCTURE, INTROVERTED ATMOSPHERE

Hans Weemaes: "For this residence we wanted a particularly strict and monolithic appearance. In doing so, the front of the building facing south is characterised by a relatively closed design. The privacy on the front side is further emphasised by the use of a claustum gable, that is a 'perforated' wall of facing bricks was positioned at some distance in front of the actual glazed area on the upper level. In this way, a narrow courtyard space is created in front of the window. The client's study, which is located behind the glazing on the upper level, thus enjoys soft and filtered daylight, while views from the outside are blocked. On the other three sides, on the other hand, we have designed large window areas for a maximum incidence of light."

Although strictly monolithic on the outside, the interior design can be referred to as introverted. Differences in level between the living and dining room on the ground floor intensify this impression. As does the discreet integration of the master bedroom above the garages and the shared terrace for both children's rooms, which is designed as a social meeting place.

STRICT FACADE WITH PLAYFUL ELEMENTS

The repetitive openings in the claustum provide a beautiful as well as playful, rhythmic pattern, which perfectly harmonises with the applied jointing technology. Originally, the facing bricks were to be glued but, ultimately, the client decided against this option so the facades were finally constructed in a traditional way with black mortar.

The horizontal joints were scraped out which, in combination with the random pattern, provides for a subtle horizontal interplay of lines.

THE PATH MERGES INTO THE WALL

From the road, a path made of paving bricks leads up to the property. The path is lined with plants alternating with Dolomite areas. The transition from the footpath to the house is formed by a raised section leading down to the sunken entrance.

Hans Weemaes: "For the facade of the property we selected Forum Ombra brick, in the Waal Format (WF). For the garden we were looking for a paver which would be a perfect match with regard to colour, format and appearance, in order to intensify the monolithic characteristic of the house. We used Terca Crea Nero WF, as both these products are very similar in appearance. We maintained consistency of application in our design approach by arranging the pavers in a random pattern just as with the facing bricks of the house. For both the footpath and the raised entrance section, the walls were built with facing bricks, positioned on concrete and mortared. The result was a concrete trough, which was filled with terrace pavers arranged without joints and in a random pattern in a bed of sand. Adjoining the living and dining rooms on the rear side of the property, narrow terraces were also laid out. In all, around 45 square metres of paving bricks were used."

The successful combination of facing and paving bricks creates an aesthetic which radiates calm and strength, which appertains to the profound and elaborate architectural concept.

Single-family house, Brecht

Architect:

hk architecten, Antwerp

Client:

Private

Pavers used:

Terca Crea Nero Waal Format (WF)

Available formats:

200 x 50 x 88 mm (WF), 200 x 65 x 88 mm (DF),
202 x 99 x 73 mm

Facing brick used:

Forum Ombra WF

Paved area:

45 m²

Completion of the project:

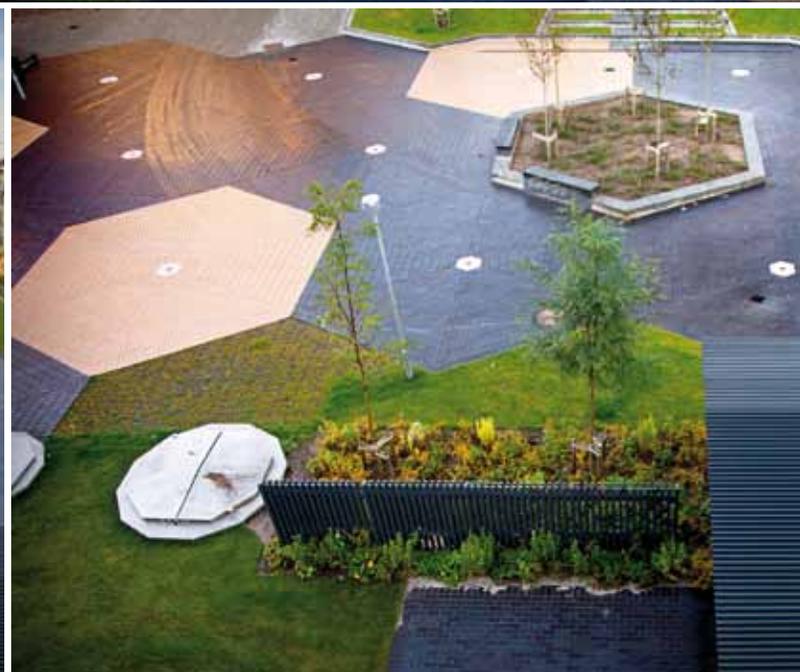
2010

From grey concrete landscape to colourful and attractive living space

In 2003, the outdated Vejleåparken apartment complex in Ishøj was facing significant challenges. The 1970s buildings were physically worn down and dismal. This sparked Denmark's largest ever residential renovation project which has seen the successful transformation of monotonous concrete buildings into attractive and dynamic living spaces.









In the streets of Vejleåparken, various different coloured pavers were laid, giving the area identity and variety.

The modernization of Vejleåparken (previously known as Ishøjplanen) is the largest renovation of subsidised housing in Denmark's history. This regeneration project took over six years and cost €188 million. More than 5,000 people live in the 166,000 square metre Vejleåparken residential area, housing a quarter of the inhabitants of the district of Ishøj Kommune.

Formerly, the streets around the subsidised housing in Vejleåparken were paved with grey concrete interlocking pavers. In combination with a similar aesthetic which characterised the surrounding buildings, this only served to emphasise the monotony of this residential area. Right from the beginning of the renovation works, the Branch Political Committee and residents wanted the design and appearance to be upgraded. An early decision was that the old style interlocking pavers were no longer an option. In order to bring vitality to the scheme, both the architecture of the buildings and the landscape were divided into four quarters, with each to have its own architectural expression.

AREAS WITH A UNIQUE IDENTITY

Charlotte Skibsted, landscape architect and director of Charlotte Skibsted Landskabsarkitekter, has been in charge of the design of the landscape side of the project. She explains the change: "With this upgrade we have realised a variation of the various landscapes by dividing the streets into four different green areas, each with its own central zone. Each area now has its individual identity linked to the adjacent buildings. The unique appearance of the paving in every one of these areas has been created by using differently coloured pavers combined with Nordic granite. In this way, the residents can identify with their particular neighbourhood. We have used beautiful pavers from Wienerberger, which offers a range of colour options, which means that

in some streets there are blue/black 'Dresden' pavers and in others, yellow 'Märkisch' pavers."

ARTISTIC FACADES

There is no doubt that Vejleåparken has become a more colourful place to live since the completion of the project. The grey concrete landscape has been transformed by new road surfaces and green common areas with cosy nooks, which are differently shaped depending on their purpose. Some are equipped with table and chairs to encourage social interaction, while others have been designed around football fields and training pavilions.

Even the apartment buildings themselves have undergone extensive renovation and now have new facades, windows, roofs, and bathrooms. In addition, Bjørn Nørgaard and eight other sculptors have decorated the facades with glazed bricks and light art.

Vejleåparken Housing Estate, Ishøj

Landscape architect:

Charlotte Skibsted Landskabsarkitekter, Vekso

Client:

Ishøj Kommune and AAB

Pavers used:

Terca Dresden (blue/black), Terca Märkisch (yellow)

Available formats:

200 x 100 x 52 mm, 200 x 100 x 71 mm, 240 x 118 x 52 mm, 240 x 118 x 71 mm

Paved area:

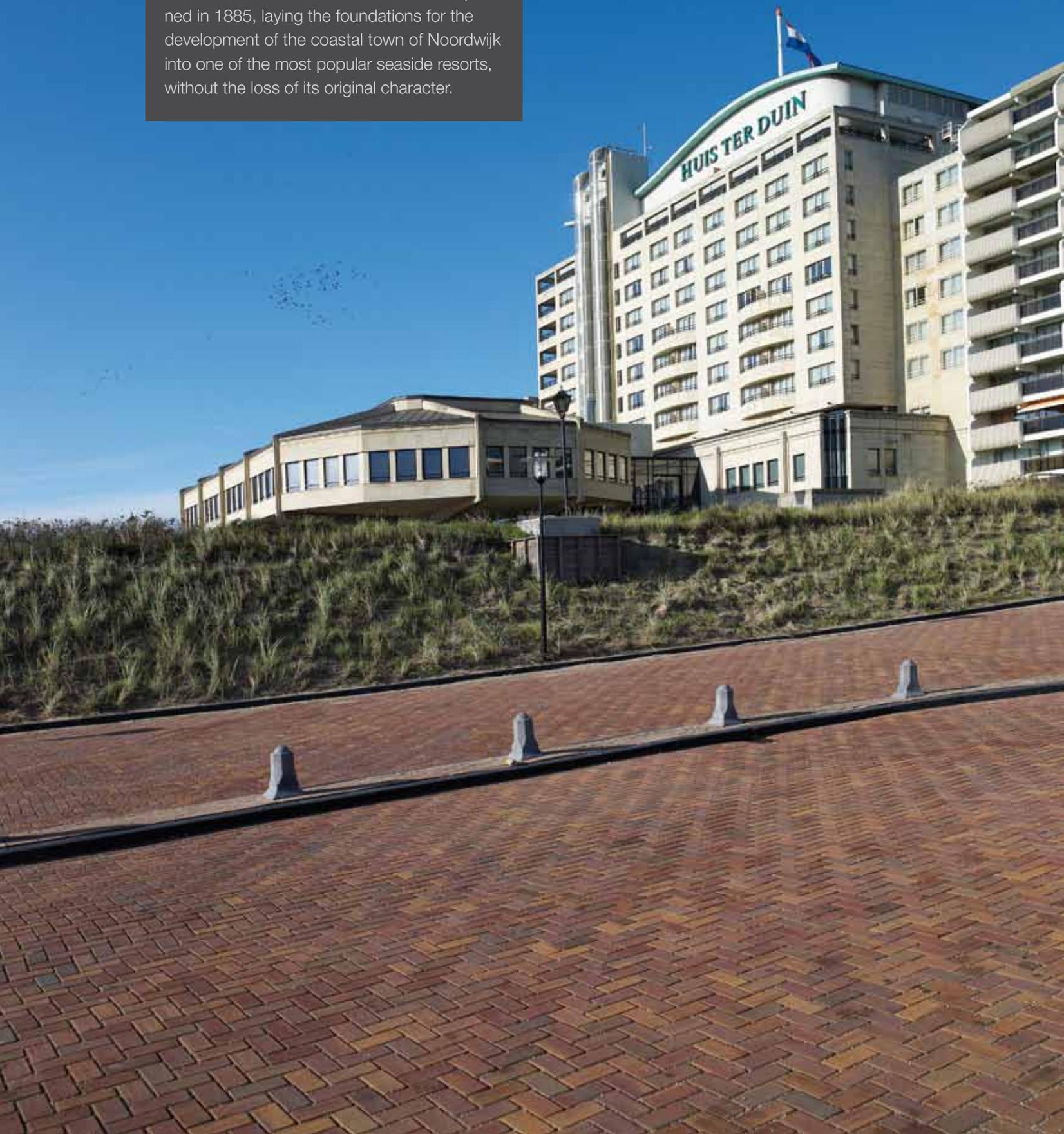
9.000 m²

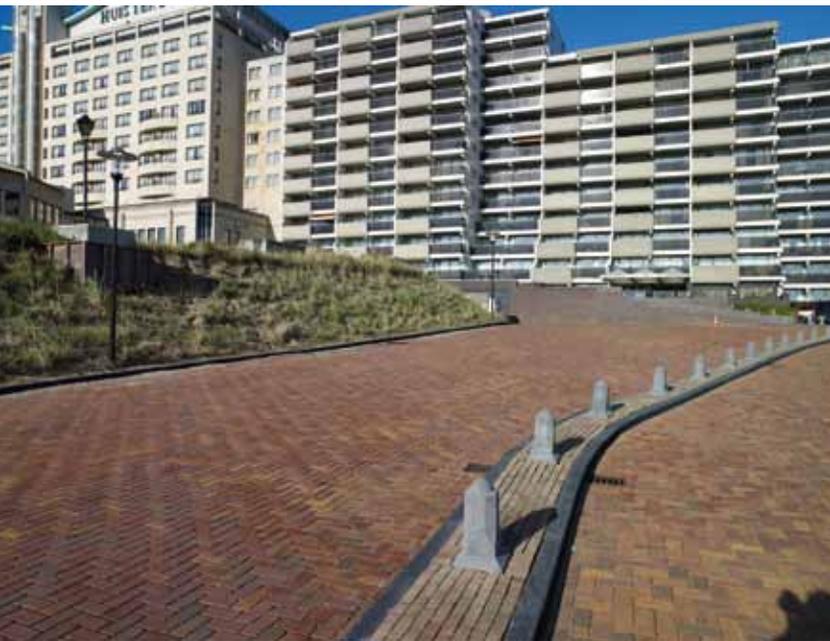
Completion of the project:

2011

Regal surroundings for the Noordzee Hotel

The Grand Hotel Huis ter Duin was first opened in 1885, laying the foundations for the development of the coastal town of Noordwijk into one of the most popular seaside resorts, without the loss of its original character.





Huis ter Duin has always counted the wealthy among its clientele. Members of the Dutch and Belgian royal families were also regular visitors. During the Second World War, the hotel was taken over and used to accommodate German army officers. This event was used later in the film "Soldaat van Oranje", which was partially filmed in the immediate surroundings of the hotel.

In 1990, a large part of the hotel was destroyed by fire. Huis ter Duin was subsequently rebuilt and extended and is now a five-star hotel with 228 rooms, 22 suites and 19 multi-functional conference rooms. The light grey design of the original section is reminiscent of a stately, English country home while the new section is more contemporary. The hotel surroundings and connecting road behind the boulevard are gradually being repaved with an attractive ochre-coloured paving brick. The choice of material reflects the grandeur of the hotel, the nearby dune landscape and the yellow-bronze cobblestones are characteristic of this area and have been repeatedly used in the past.

Hotel Complex, Noordwijk aan Zee

Client:

Municipality of Noordwijk

Pavers used:

Auraton KK70, Bronzo DF

Available formats:

WF, DF, KK70

Paved area:

ca. 500 m² Auraton und 350 m² Bronzo

Completion of the project:

2009

Traditional aesthetic for house and garden

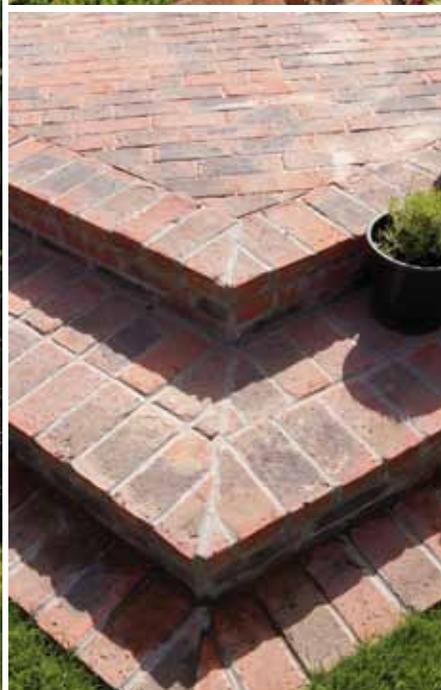
The heritage styling and modern quality characteristics of the Rudgwick Sea Sand Multi Stock paver combined with its rough surface texture, created the perfect combination for architect and homeowner John Russell as he transformed his Carrick Road home and garden into a space for reflection and relaxation.



Nestled at the heart of Ayr's central conservation area, Carrick Road is lined with traditional Georgian and Victorian buildings. A popular residential area, the road also plays host to a number of the town's best hotels, restaurants and guest accommodation.

With the history of his Victorian property firmly in mind, John Russell wanted to ensure that the extension to his home and garden would sit comfortably with the original building and its surroundings and create a harmonious connection between the internal and external space. With a strong emphasis on natural materials with a traditional aesthetic, the project incorporated Wienerberger's red Rudgwick Sea Sand Multi Stock pavers. Complementing the colouring of the neighbouring property, blemishes in the original brickwork were reconstructed with great sensitivity.

John Russell, who owns the property and works for Thomson McCreagh architects, said: "It was important for the external landscaping to work in harmony with the traditional style of the building. The pavers were introduced as a means of connecting the garden room with the external area, while also providing colour and texture to complement the mature planting within the existing garden. The aesthetics of the paver arrises in combination with the soft edge and the small scale module allows curved edges and steps to be formed in the same material. These combine to produce a landscape setting which perfectly complements the age and character of the property."



Private house, Ayr

Architect:

John Russell, Thomson McCrea

Client:

John Russell

Pavers used:

Rudgwick Sea Sand Multi Stock, 50 mm

Available formats:

215 x 102 x 50 mm

Paved area:

35 m²

Completion of the project:

October 2010





The Gardens of Appeltern

ONE VISION – TWO HUNDRED GARDENS

The Gardens of Appeltern are the brainchild of Ben van Ooijen. Located in the beautiful river landscape of the Dutch province of Gelderland, this collection of show gardens is unrivalled. Van Ooijen is also renowned for his unmistakable vision on garden design (see “Four top tips for happy gardening” on page 5). Here, Ben van Ooijen discusses the secrets of contented gardeners and the various approaches different nationalities take to their gardens.

“The garden world is a complex one, including manufacturers, growers, gardeners, writers, journalists, and garden centres, all of whom play a role and have their own vision of how things are or ought to be. With the Gardens of Appeltern we have the opportunity of presenting various examples, without the commercial pressures of having to make a sale. Inspiration and information sharing have made Appeltern the definitive park for gardening culture in the Netherlands. It is a place where design, planting, paving, art, and accessories all come together. Old gardens or gardens of the future, I am not going to say what is beautiful or fashionable and I am certainly not a moral crusader. However, I do monitor the final quality of the 200 gardens within the project. I believe people can get more out of their gardens and this can be achieved with the partners and companies presenting their solutions here. Consumers should see the difference, and that is the task of Appeltern.”

GARDEN SATISFACTION

“A garden makes life more beautiful and interesting. Using my vision on garden satisfaction as a basis, I would like to teach people how to enjoy plants. I think that only 20 per cent of people are really satisfied with their garden. They are the real enthusiasts, who automatically continue to buy and renew plants. My advice to the gardening industry is to focus on the 80 per cent who don’t have a great bond with their garden! Help them to create a genuine interest in their garden rather than simply, and perhaps thoughtlessly, selling them new things. Take the opportunity to take your customer by the hand and make it easy for them. My vision on garden pleasure consists of just four steps that people can control themselves. This vision works, specifically because of the simplicity of the concept.”

INSPIRATION

“After my studies I spent two days visiting eight English gardens. Sissinghurst and Hampton Court set my heart ablaze, such was their beauty and tranquillity, and what respect and passion their gardeners had. The garden culture in England is

unique. The BBC, for example, gives the Chelsea Flower Show three hours of live broadcasting time every day during its run. On the continent, one country that is developing a more mature gardening culture is Germany. You can see this reflected in their Bundesgartenschau, a trade show that is without any frills and goes back to basics. The Germans sell solutions based on a sincere commitment to the customer. The Dutch, in my opinion, still think too much in terms of selling products.”

CLAY PRODUCTS

“The use of clay products is definitely growing. The selection criteria for such products are quality and sustainability, not only in performance but also in aesthetic, particularly as more classic, timeless garden designs are on the rise. The supply has also become broader as every shade is on the market. This makes multi-coloured designs much easier. Also, combining facing bricks with other materials can work fantastically together, and in that I include combinations with natural stone, concrete or concrete with a top layer of natural stone, I leave all the options open. Appeltern is, after all, synonymous with promoting gardening pleasure through open and honest information sharing.”

LAZY GARDENING

“Blogs and literature discuss it at great length, but there is a misconception that a fully paved garden requires less maintenance than a turfed or planted one. Gardening should be about doing what you really enjoy, about planning well and making the right choices. So reducing maintenance by 40 per cent, for example, can be very welcome and is extremely simple to achieve. You need to prune certain hedges twice a year, but others can easily do without any maintenance for a year. The lawn needs to be mowed 30 times but a ground cover can reduce this further. To reiterate, I feel strongly that people should be happy in their garden and I’d like to help them achieve that. There are still too many outdoor areas that are undeserving of the title ‘garden’ but a little tender loving care could see that situation rectified for many.”

Red Carpet for Screen Stars

Designed to become the hub for creative industries in Wales, and home to the BBC's new Roath Lock Studios, Porth Teigr is a 38 acre site under development in Cardiff Bay. The mixed-use site will comprise commercial, retail and residential spaces and is one of the most significant waterfront developments in the UK.







A joint venture between the urban regeneration investment firm, igloo and the Welsh Government, Porth Teigr is the last major derelict site in the Inner Harbour area of Cardiff Bay creating more than 93,000 square metres of commercial development space and over 1,000 new homes. The catalyst of the scheme has been the realisation of the BBC's Roath Lock studios project, which will complement a new Digital Media Centre, creating a hub for the creative industries.

Having undergone significant regeneration, Cardiff Bay is becoming one of the most cosmopolitan and creative centres in the UK, while still retaining its traditional Welsh heritage. The overriding vision for the public realm was to reference both the beauty and scale of the natural environment of Cardiff Bay, and the enormous impact of the area's industrial heritage through the predominant use of natural materials and their simple arrangements.

The bay area is home to a number of Welsh cultural landmarks including The Senedd, the home of the National Assembly for Wales, the Wales Millennium Centre and the

Pierhead Building with its distinctive red brick facade. The red brick is a theme continued throughout the bay area and plays a major part in the colour scheme of Porth Teigr, particularly in the design of walkways and harbourside promenades.

David Wesselingh, landscape architect at urban realm designers LDA Design, said: "Red clay pavers characterise a major part of the built environment in Cardiff Bay and we were keen not to lose that character. On the other hand, we wanted to give Porth Teigr its own identity as a distinct space, separate from the rest of the bay."

In order to achieve these twin aims, David specified the Slimpave Koln Red pavers from Wienerberger. Its distinctive deep red colour is complemented by variations of blue and grey to give a greater richness to the look of the paved area. These tonal features are caused by firing the natural clay material in the kiln. In addition, as a slimpave waterstruck product, the texture of each paver is unique and the narrow proportions produce a highly desirable, handcrafted appearance. Owing to the dockside location and high number of passers-by in



the Porth Teigr area, durability was also one of the priority criteria for the design team and Cardiff City Council. Due to the inherent performance capability of fired clay products, the Slimpave Koln Red is a hard-wearing paver and therefore ideal for the job.

David concluded: "It is the scale and exposure of the dockside environment which creates such a strong identity for Porth Teigr. The use of only a few types of material, which will weather naturally, used in uncomplicated patterns with generous edges and simple junctions, is a deliberate move, which allows us to pay homage to the generosity of scale of the dockside environment.

"The Slimpave Koln Red has been used across 4,200 square metres of outdoor space and therefore function and performance are integral to its specification. The paver achieves this balance between the old and the new. Thus it provides an ideal fit with both the built and natural environment, harmonising with both the modern media facilities on the site and the overall spatial and design context."

Site under development Porth Teigr, Cardiff Bay

Architect:

LDA Design

Client:

igloo

Pavers used:

Slimpave Koln Red

Available formats:

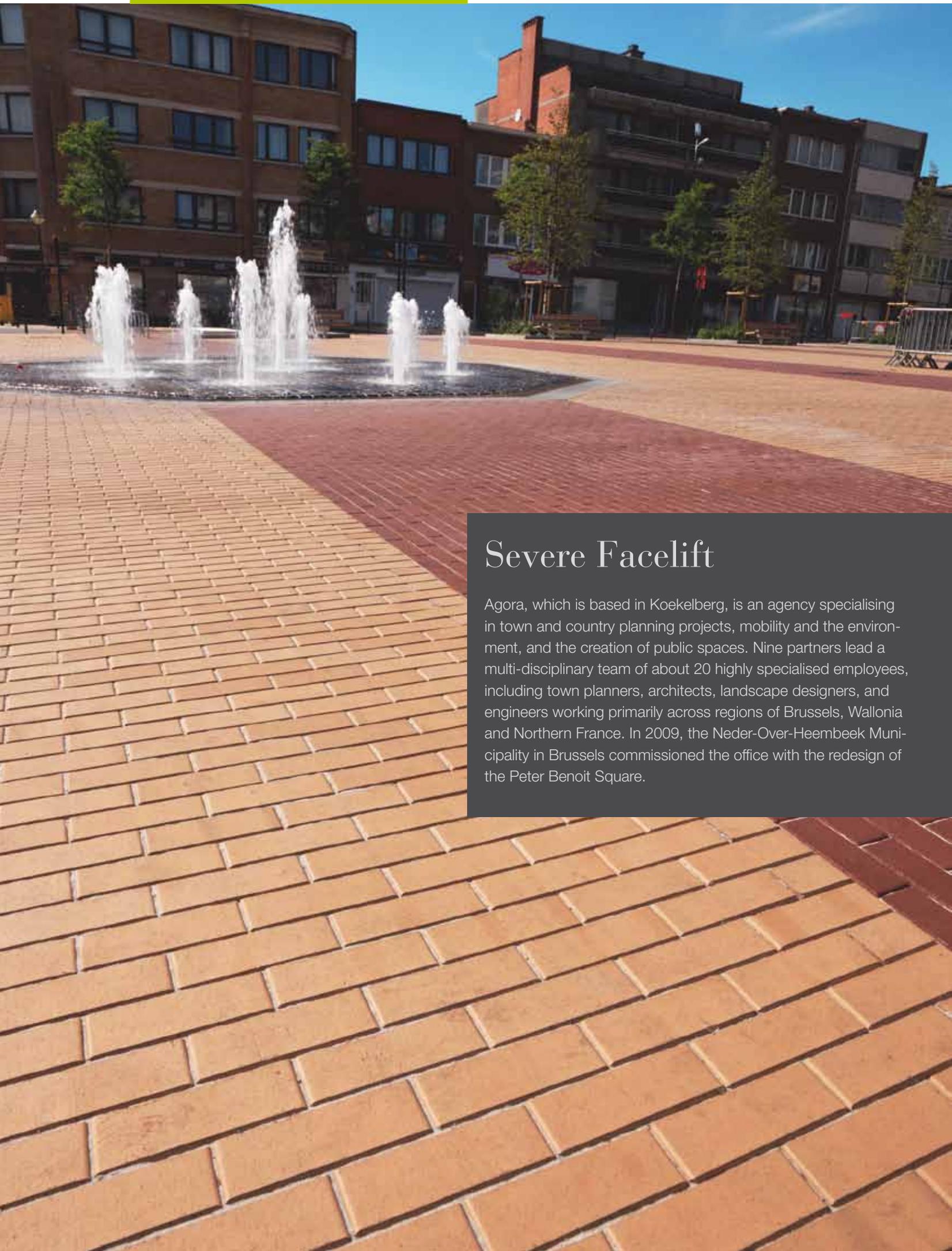
210 x 50 x 70 mm

Paved area:

4,200 m²

Completion of the project:

September 2011



Severe Facelift

Agora, which is based in Koekelberg, is an agency specialising in town and country planning projects, mobility and the environment, and the creation of public spaces. Nine partners lead a multi-disciplinary team of about 20 highly specialised employees, including town planners, architects, landscape designers, and engineers working primarily across regions of Brussels, Wallonia and Northern France. In 2009, the Neder-Over-Heembeek Municipality in Brussels commissioned the office with the redesign of the Peter Benoit Square.

MORE RESPECT FOR PEDESTRIANS AND CYCLISTS

Over the years, the municipality has been presented with numerous concepts for the redesign of the square, which houses a series of car parks and open spaces and is dominated by the Church of St Peter and Paul, but all were rejected. The proposal by Agora, however, was well received by all stakeholders as it responded directly to the client's specific requirements of reducing heavy traffic within the square, and upgrading the function of the public space for all users. In particular, cyclists and pedestrians have, in recent years, experienced increasing difficulties around the Peter Benoitplein. François Vekemansstraat, a bustling shopping street to the south side of the square with two-way traffic, caused considerable congestion in this area while the wide road surrounding Peter Benoitplein caused additional traffic and intensified parking problems. It was considered high time to restore the balance between green areas, traffic and social life.

DRIVING MORE SLOWLY AND WALKING MORE CALMLY

Pierre Lorand, project manager for the scheme at Agora, explained some of the measures taken to calm and even discourage traffic. "Wide roads simply invite people to speed. That is why we have narrowed the lanes all around the square and reconsidered the circulation in favour of parking and wider pedestrian walkways. We have left the square in front of the

three shades: Yellow for the pedestrian area, brown for the long, contrasting stripes on the square in front of the church entrance, and red brown for the parking areas. I like to use yellow paving because it is a fresh, animated colour, which always carries a little holiday feeling. The long, brown stripes, which interrupt the yellow pavers, emphasise the size of the square, simultaneously ensuring a visual unity."

A COMPREHENSIVE CONCEPT

In addition to the redesign of the square, Agora was also responsible for the street furniture, the public illumination and the green spaces. Each of the individual elements and materials selected fit perfectly with the overarching concept, of calm, security and a new social vigour being of primary importance. The benches are made of wood supported by a metal frame. Furthermore, contact blocks, poles, banisters, and stainless steel bins were positioned throughout the square. Lighting the space involved the installation of 10 extra tall lamp posts, 6.3m high, positioned at the front of the church while all other lamp posts around the church are 4m tall. In the green space, two tall tree species were planted: Caucasian lime tree and honey locust (*Gleditsia Triacanthos* 'Sunburst') and all around the church strips with divots and bushes were integrated into the square. The complete redesign of Peter Benoitplein took just under a year and was completed in June 2010.



church entrance completely open so that it can fulfil its public function during markets and festivities better than before. The former fountain and water basin were replaced with an elaborate aquatic feature with water columns shooting out of the ground, giving the whole square a much more playful character which is particularly enjoyed by children in the summer, running in and out of the jets."

PAVING BRICKS – A NATURAL CHOICE

Pavers have long been used for public spaces, due to their durability and performance plus the colour variations available giving the designer huge choice. Pierre Lorand said: "The decision in favour of pavers is easily justified. It is a natural material with a relatively smooth surface, so that dirt cannot settle easily. Beyond that, pavers are colourfast and consequently, their natural colouring does not change – neither through influences of weather nor through heavy traffic loads. "For this square, we have specifically chosen paving bricks in

Design of the public square Peter Benoitplein, Neder-Over-Heembeek

Architect:

Agora Studiebureau, Brussels

Client:

Municipality of Neder-Over-Heembeek

Pavers used:

Penter nut-brown, Penter Husum yellow brindle, Penter red

Available formats:

200 x 100 x 71 mm

Paved area:

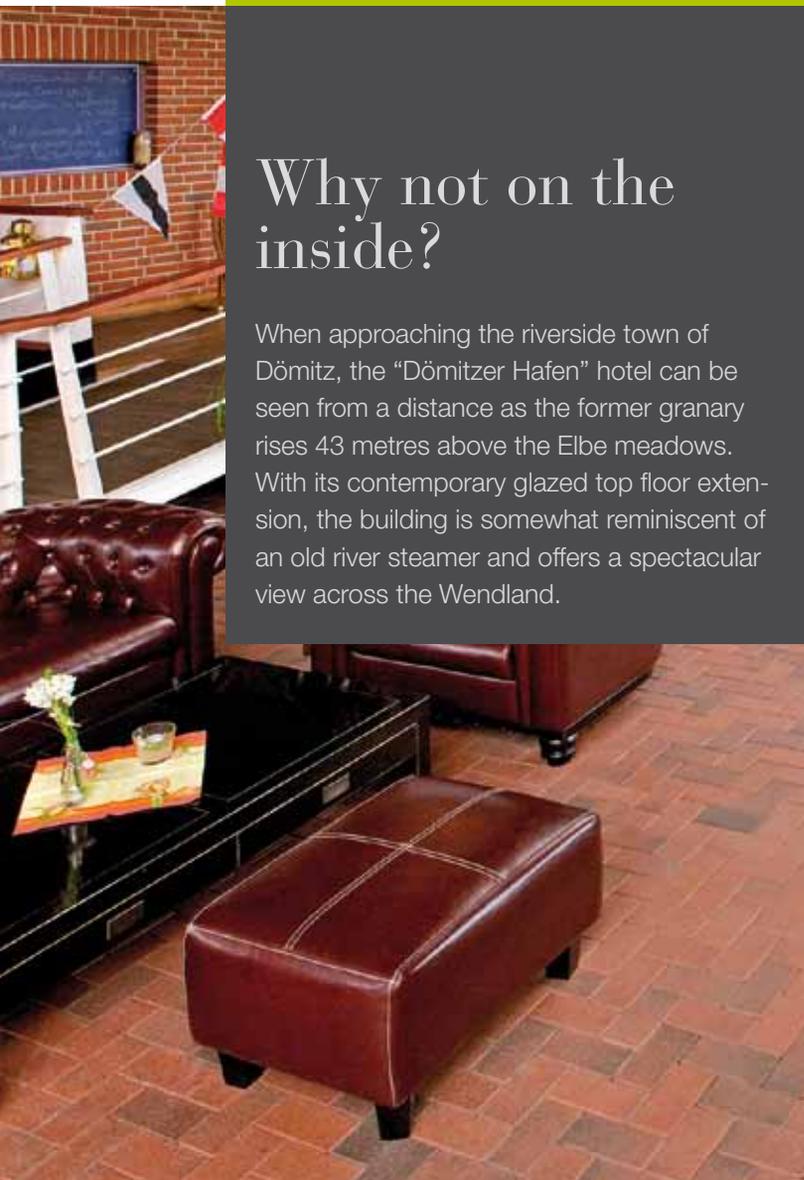
5,000 m²

Completion of the project:

June 2010

Why not on the inside?

When approaching the riverside town of Dömitz, the “Dömitzer Hafen” hotel can be seen from a distance as the former granary rises 43 metres above the Elbe meadows. With its contemporary glazed top floor extension, the building is somewhat reminiscent of an old river steamer and offers a spectacular view across the Wendland.



Although planned as a hub between Hamburg, Mecklenburg and Czechoslovakia by the German Democratic Republic in 1959, the harbour at Dömitz was never put into operation thanks to the construction of the Berlin Wall and its proximity to the inner German border. In 1995, Düsseldorf-based property developer Kai Hagen, whose family comes from this region, took over the harbour and its buildings. In this formerly restricted area, where border patrol boats of the GDR were based until the German reunification, Hagen was later able to develop a hotel with a large restaurant area, event hall and beach bar.

DESIGN ELEMENT PAVERS

“Kai Hagen always commits himself to creating something special,” explains Michael Kirstein, who coordinated construction works between 2004 and 2007 and is now working as technical manager in the hotel. “This applies not only to our statement panorama café – the Meta – but also to the hotel rooms and restaurant. The Meta astonishes everybody arriving in our hotel for the first time.” The reproduction of an Elbe river boat is the centre of the restaurant, which offers local maritime specialities for lunch and dinner. Another feature is the internal floor covering which uses the red/blue brindle Penter pavers – usually seen in external landscaping – in the lobby and the restaurant interior. Kirstein

recalls: “We were confronted with a specific challenge in that the interior finish was carried out in stages. In 2006, nothing existed where our restaurant is located today. Now it is complete, there is still the potential to expand further so, in order to maintain the flexibility for future building projects it was important not to seal the ground as all the service pipes run underneath the restaurant. In addition, Dömitz simply is “brick land” and pavers in classic colours have a tradition that dates back several centuries. That’s why we have chosen this design element typical for the region with its special look for the interior.”

In accordance with the high quality specification, all materials suppliers had to demonstrate excellent craftsmanship. Various laying patterns were used throughout more than 350 square metres, including the particularly elaborate design of the compass rose in the entrance area which demanded precise skill. The creation of the circular and decorative elements required bespoke handling and careful technique as pavers even had to be sawed into small fragments. Kirstein remembers this with a chuckle: “For three days, the compass was the most important tool of the craftsmen, because our compass rose had to be aligned exactly.” Its effect is based on the formation of the letters of the four cardinal directions, which enlarge the central compass rose, which is made of granite, many times over.



The wooden gangway marks the transition into the restaurant. On the left is the lift to 26 of the hotel's rooms and three junior suites.

Careful sorting of the naturally occurring colour gradients in the clay paver allowed the creation of strips and further decorative elements within the four quadrants.

HIGH-QUALITY AND HARD-WEARING

Apart from aesthetics and high durability, there were also technical reasons for using clay pavers for the interior space. The Elbe meadows and the harbour are flood-affected regions. In record years, the water mark can be measured at three metres above the normal level which sees the hotel's car park, event hall and even parts of the restaurant covered by cloudy floodwaters. "That's why a hard-wearing floor covering is particularly important. Wood and plastic are simply not suited for these conditions. In order to create ample drainage, we opted for an unbound laying and used recycled brick for the supportive layer with washed paving sand for the bedding materials and it was important to coordinate the grain size of both materials." Combined with these performance characteristics, the Penter pavers create a particularly attractive finish. Whether the elbow bond in the restaurant area, the block format in front of the reception or in combination with industrial steel floors in front of the old marine diesel engine in the bar area, red/blue brindle pavers add accentuations and emphasise the regional charm of the original building.

Dömitzer Hafen, Dömitz

Architect:

Lothar Greiner, bautechnisches Büro Grabow, Mecklenburg

Client:

Kai Hagen Immobilienverwaltung, 40237 Düsseldorf, Grafenberger Allee 277-287

Pavers used:

Penter red/blue brindle, Penter nut-brown

Available formats:

200 x 100 x 52 mm

Paved area:

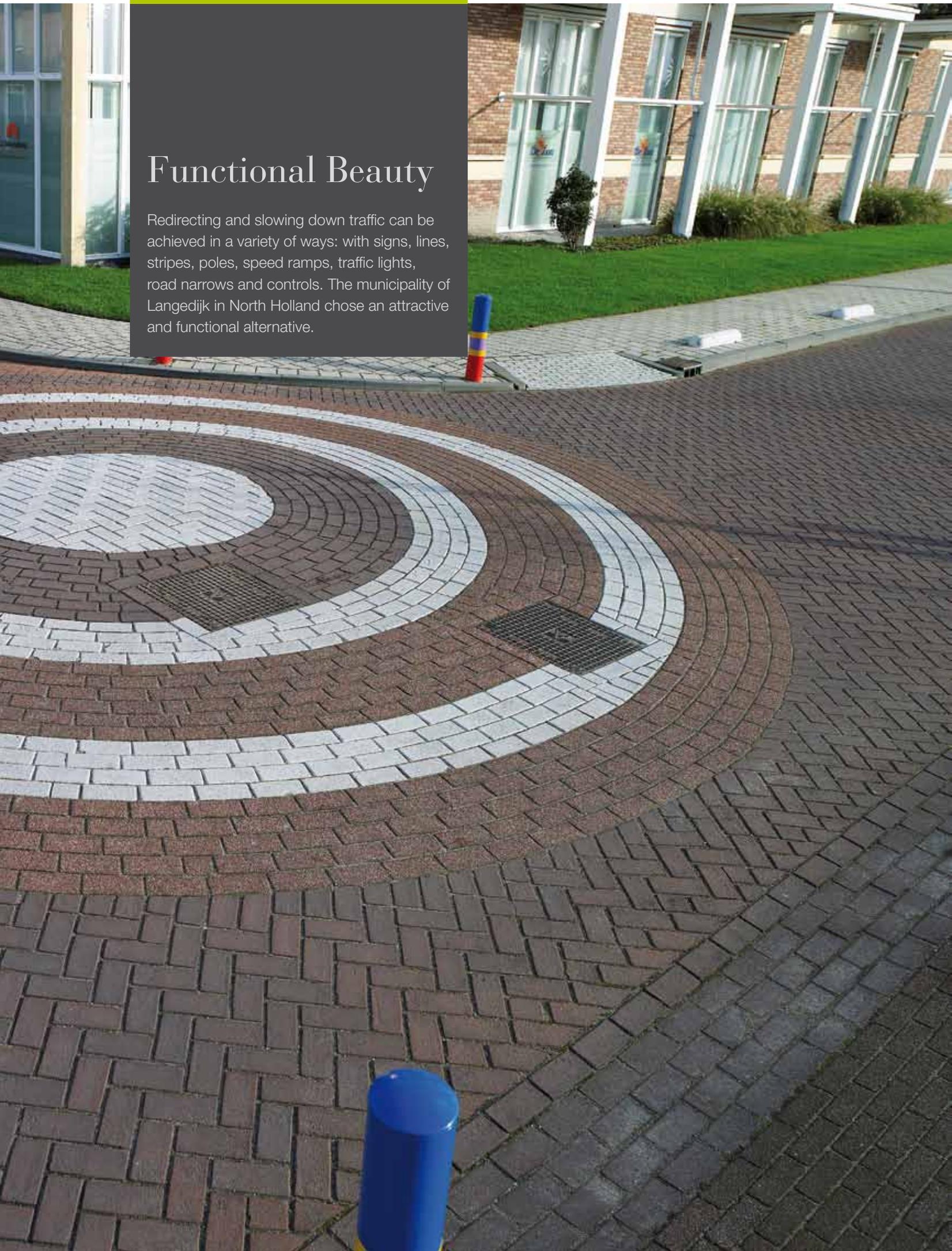
ca. 450 m²

Completion of the project:

August 2007

Functional Beauty

Redirecting and slowing down traffic can be achieved in a variety of ways: with signs, lines, stripes, poles, speed ramps, traffic lights, road narrows and controls. The municipality of Langedijk in North Holland chose an attractive and functional alternative.





Although there is no legal requirement for the design of speed humps in the Netherlands, there are guidelines for their use, though the choice of material is left to the respective local authority. Colour-fast fired paving brick lend themselves extremely well to this purpose, particularly for their durability. As they are available in a range of colours, mainly due to the variety of naturally occurring clay, they have the advantage that the colour differences are fixed during the firing process which allows them to retain their long-term visibility better than black-and-white painted patterns. Furthermore, the sustainability of natural clay is an important consideration for government authorities.

Wienerberger supplied the pavers for a new-build housing estate in Zuid-Scharwoude (in the municipality of Langedijk). The project required utmost attention with regard to the design of the open and traffic areas particularly around schools. Distinct warning signs, poles and road surface signs protect children and other road users in these high-risk zones. The photo on the top right illustrates that a speed hump can be more than just an annoying obstacle in the road, but is a useful device in slowing down traffic as well as identifying the function of the buildings around it.

Traffic-calming concept, Langedijk

Architect:

Maarten Koning

Client:

Municipality of Langedijk

Pavers used:

Bruno KK70 rust red and Argenti KK65 white

Available formats:

Bruno: WF, DF, UDF, KK70, KK80, LF, TF

Argenti: UDF, KK65

Paved area:

13,000 m²

Reconstruction of a recreation park

The recreation park in the Lithuanian City of Klaipėda is located in an old pine forest and covers an area of about 28 hectares. Red tiled roofs characterise the typical appearance of the city and, since the newly designed part of the recreation park is situated in immediate vicinity to the red brick university, the idea was to let the tiles and bricks “take a walk” into the park. The concept was born that the brick aesthetic should be repeated in the footpaths and thus stretch into the greenery of the park.



CUBE, CIRCLE, ALLEY

A public square designed with concrete slabs was situated directly opposite the university building. It has been totally redesigned and features a variety of graphic paving designs including the striking two-dimensional “Cube”. The isometric image is created with the use of three different shades of paver, depicting two sides and the top of the “shape”. The edges are emphasised with stacked lines of full pavers angled inwards, which come together in a precise joint at the centre. On one side, the square opens up towards the city, appearing to act like a funnel attracting visitors into the park. The middle of the square not only provides sufficient space for the three-coloured cube but also for a sculpture with trees in the background.

The “Circle” includes numerous footpaths which run through the park, extending like rays in various directions. At the intersections, visitors can easily identify main and secondary paths, so that they do not get lost. Two asphalted footpaths mark the beginning and end of a circular path through the park. The “Circle”, a round piazza, covers almost 150 square metres.

Its surface is covered with pavers of two different sizes creating a contrasting textured finish, with granite slabs emphasising the central point. The surface is concave, a feature which is highlighted by the circular form of the pattern. The space around the “Circle” is framed by large trees, street lamps and benches. Narrow trails set in grey granite emphasise both the warm red colour of the pavers, and the regular shape of the open space. The trees give the plaza a unique light effect as it is illuminated differently depending on the time of day, creating the illusion of the pavers flickering, revealing a variety of colours within this natural clay product.

Another public space is called the “Alley” and has a more elongated rectangular shape. The entire “Alley” area covers about 1,100 square metres, including centrally positioned flower beds. Two lines of pavers frame both the straight and circular contours of the square. Inside these frames, the pavers are laid in a herringbone pattern. The small unit size of the pavers and the laying pattern help to avoid long monotonous seams creating generous, open spaces for the public to enjoy.



Recreation park, Klaipėda



Architect
Virginija Rimantienė

Architect:

Virginija Rimantienė (JSC "Statybos strategija")

Client:

City of Klaipėda

Pavers used:

Titan, Penter yellow brindle, Penter red, Penter red/blue brindle, Terra Kirju

Available formats:

200 x 100 x 52 mm, 240 x 118 x 52 mm

Paved area:

975 m²

Completion of the project:

2011





Brick carpet

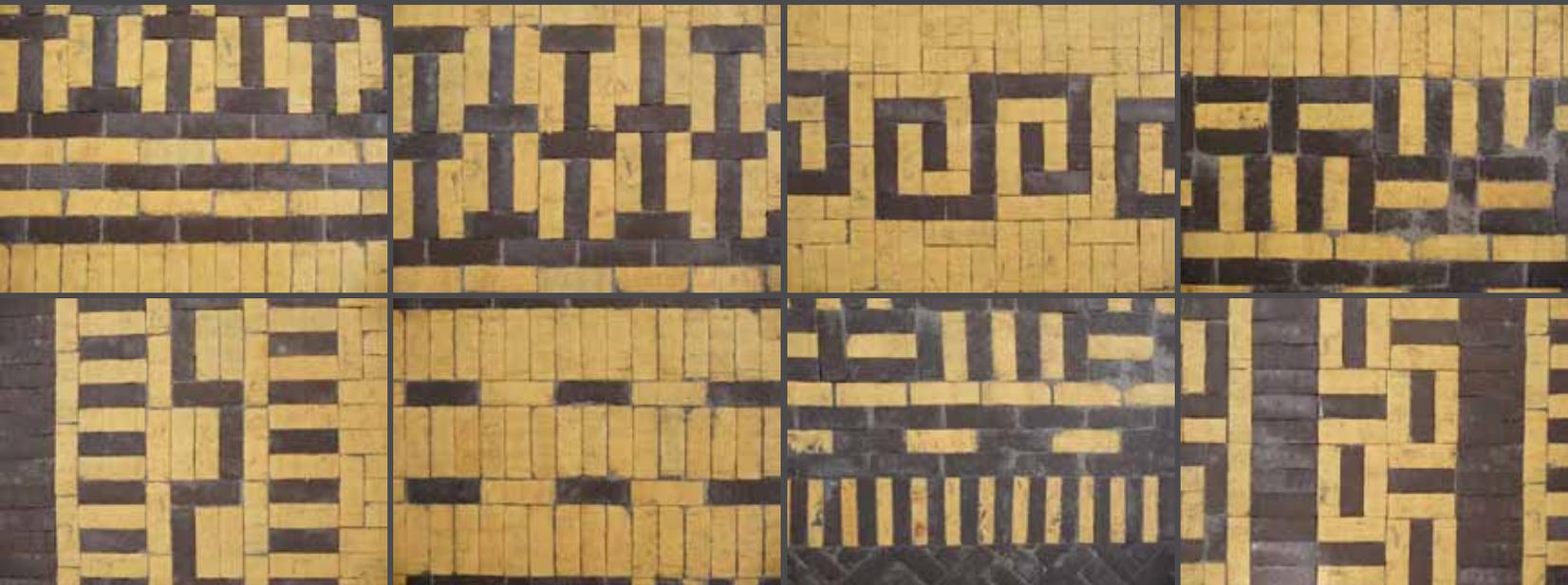
MEDITERRANEAN COURTYARD 'CARPET'

The bumpy and partly damaged asphalt surface of a courtyard in Copenhagen's district of Østerbro was redesigned with a beautiful display of decorative paving bricks. Dilapidated parts of the surrounding property were demolished in order to make room for a miniature football pitch.

The vision for the redevelopment of the courtyard was the creation of an intimate outdoor space, ideal for use as a meeting place to enhance the social interaction of the building's many residents. It was also felt that the newly designed space should feature a quirky element that would allow it to be enjoyed from the windows above and give the viewer a completely new visual experience. A tongue-in-cheek "carpet" motif was selected to be realised in contrasting yellow and black pavers, as a representation of domesticity and cosiness, giving this residential building a particular persona. The inspiration for the pattern

came from the many wood carvings and ornaments on the facades in Østerbro, but was carefully adapted so that its own unique personality could evolve.

Many climbing plants, flowerpots and an attractive low level circular fountain combine to create an almost Mediterranean atmosphere. The "brick carpet" unites the surrounding buildings around the common space; it gives the courtyard its individual identity and the residents the feeling of belonging. In the summer, the courtyard thus becomes an extended living room for the residents.



Courtyard in Classengade, Copenhagen

Architects:

1:1 Landskab, Copenhagen

Client:

AB Store Classenshus

Paved area:

400 m²



Private Residence, Piedmont / South Carolina

During the course of a conversion, the old wooden terrace located at the rear of the single-family building in Piedmont, South Carolina, was replaced by a new patio space created with clay pavers in reddish orange with occasional blue hues. Upon completion of the terrace, which included a brick-built hearth, the clients also decided to upgrade the drainage tiles around the house, as well as the path to the pool by using pavers, to bring the whole aesthetic together. In all, the project required the laying of 4,609 Old Baltimore pavers.

Pavers used:

Old Baltimore

Paved area:

95 m²

Private Residence, Piedmont / South Carolina

Located at the rear of a family home in Piedmont South Carolina, the newly paved terrace of the house replaces the aged floorboards of the original structure. Key to the client's requirements for their new floor covering was a low maintenance solution. Pillars surrounding the terrace were completed in a complementary burnt red brick, giving a harmonious aesthetic to an overall scheme which saw more than 1,950 pavers laid with a stretcher bond on a preformed concrete floor.

Developer:

Hernandez Masonry

Pavers used:

Modular Old Luisville and St James

Paved area:

42 m²



Public Safety Building, Alpharetta / Georgia

More than 14,400 red pavers were used in the redesign of the open areas of the Public Safety Building in Alpharetta, in the US State of Georgia. Fashioned around a central circular feature – housing planting beds and a bronze sculpture – the red pavers were laid in herringbone style which gives interest and texture to the pathway. A spur links the walkway to the building, itself faced in a red brick.

Architect:

Bradford Associates

Client:

Johnson Landscapes Inc.

Pavers used:

Full Range Red

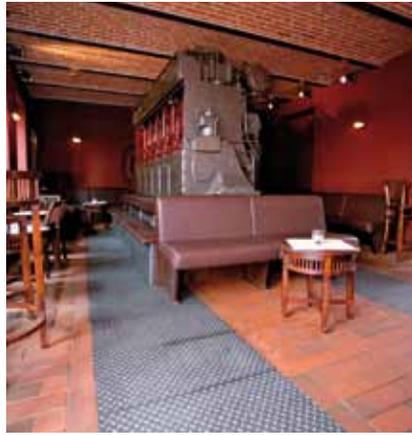
Paved area:

297 m²

Completion of the project:

2009





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