BRICK INSPIRATION

FOR FACADES AND FLOORING

GIMA

Quality from clay

GIMA

Quality from clay

Every brick is unique.

ABOUT GIMA

Girnghuber GmbH upholds a long tradition in the production of clay building materials. Our quality products not only make us an important regional supplier, but we also provide our customers throughout the country with customised solutions and innovative approaches.

Awareness of tradition and an entrepreneurial perspective have always been defining features of GIMA's orientation. When asked to sum up the company, Claus Girnghuber says:

'What sets us apart is the breadth of our range. We are the only manufacturer that offers almost all ceramic building materials. And in addition to tradition and experience, which many in the industry also have, we offer maximum versatility, coupled with a great willingness to innovate. We like to be the first to do things, and in doing so, we are committed to meeting customer requirements.'

Tradition and innovation

In 1903, Therese Girnghuber, the great-grandmother of the current owner Claus Girnghuber, acquired the brickworks. From that point on, GIMA has continued to be family-owned.

While at the beginning of GIMA's history the bricks were still produced seasonally by hand – i.e. from spring to late autumn – almost as they had been in Roman times, today the technology of brick production has changed fundamentally. Nowadays, almost all bricks are manufactured by GIMA in a fully automated and computer-controlled environment.

The brickworks currently employs 300 people and operates 8 factories at the Marklkofen location. A variety of different products are produced from clay there.

In addition to bricks for facades and floors, these include roof tiles for the sister company ERLUS, as well as large-format brick panels for the MOEDING subsidiary.

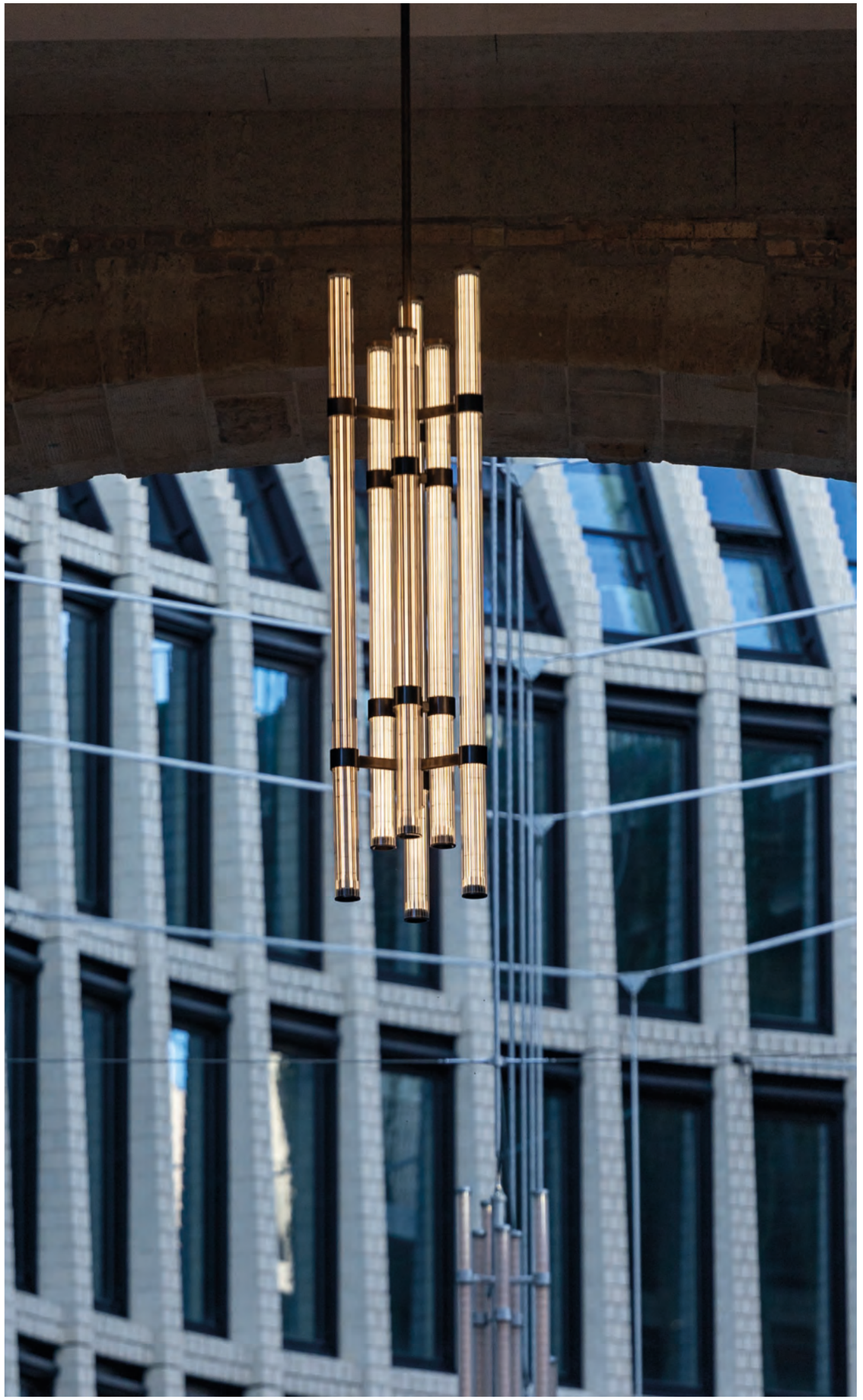
Sustainability and durability

Today, the brick is not only historical, but is also a highly technical, modern building material. It is valued for its precisely describable technical characteristics and continues to appeal with its intangible emotional properties.

Preserving a liveable environment for ourselves and future generations means managing the impacts on the Earth's ecosystem caused by the production and use of goods, in such a way that irreversible damage to the natural balance of the interconnected human-animal-plant-soil-water-air-climate system can be avoided.

We want to produce long-lasting, value-maintaining products from natural raw materials, and with resource-saving production. We therefore always strive to achieve sustainable management and maximum efficiency with state-of-the-art technology. This applies not only to the operation of our plants, but also to the energy required.

Our goal is to independently produce up to 66% of our electricity requirement in the near future with the help of solar and wind energy. Thanks to a gas mixing plant, we will be able to use locally produced biogas or self-generated hydrogen for the production of our brick products in the future. However, it's not only improving our processes that plays an important role for the future of construction, but also expanding our product range.



SCAPE, part of the Quartier at Tacheles | Herzog & de Meuron, Basel | Photo: Koy + Winkel

Contents.

Company

ABOUT GIMA

Local raw materials Page 6
Sustainable production Page 8
Regenerative energy Page 10

Facade

BRICKS FOR THE FACADE

The NF/DF bricks Page 16
The prefabricated brick elements Page 18
The bar-format bricks Page 20
The special-format bricks Page 22
The brick slips Page 24
The large-format bricks Page 26
The ceramic baguettes Page 28
The acoustic bricks Page 30
The handmade bricks Page 32

Flooring

BRICKS FOR THE FLOOR

The stock range of pavers Page 38
The classic pavers Page 42
The bar-format pavers Page 46
The CERPIANO^{+} terrace system Page 48
The ceramic floor tiles Page 50
The handmade floor tiles Page 52

Colors

COLOR OVERVIEW

Planner service for your project Page 60
Fire Glazed Page 62
Recycling bricks Page 64
SURFACE tiles Page 66
Color examples, facade Page 68
Color examples, flooring Page 82

LOCAL RAW MATERIALS

The positive physical and structural properties of this valuable construction material, the great quality of living and the cost-effectiveness, are augmented by the ecological added value we create. This is more important today than ever, given the increasing significance of environmental factors, such as the extraction of raw materials, energy consumption, air pollution, the greenhouse effect and soil acidification.

Local clay deposits

GIMA processes approximately 1,000 metric tons of raw material per day. The raw materials used for brick production, clay and sand, mainly come from local deposits. A large clay deposit is located in the immediate vicinity of our factory. The type of raw materials is crucial to the subsequent color of the clay products. The raw material in our region contains iron oxide and therefore tends to have a bright red coloring. GIMA has always wanted to meet the wishes of planners and has therefore purchased corresponding clay types to obtain the exact desired color.

Nowadays, about half of all products are produced with clays from the immediate environment. For the other half, raw materials are purchased from the nearest possible sources. We currently have about 20 different clay types in stock.

Renaturation after quarrying

When clay is quarried, the fertile topsoil is removed. The clay layers are extracted and used for local production. If a field is no longer productive or the quality of the clay is no longer adequate, the renaturing of the area can begin immediately.

The pits are recultivated. There are various options here. The most appropriate one is chosen to suit the location: the cultivated areas are either replanted in their original state, used as agricultural areas or, in coordination with local environmental authorities, converted into valuable biotopes or local recreation areas.

Zero waste

No production waste is generated during the production of ceramics and bricks. Broken bricks and ceramics accrued during production are sorted by type and returned to the production process. Alternatively, broken bricks can also be used for many other purposes.

Reuse phase

Further use is possible as an aggregate for chipped brick concrete, as filling or bulk material in road and civil engineering, as a substrate in gardening and landscaping, as material for backfilling pits and quarries, in the construction of noise barriers, and as tennis court surfacing and tennis sand.

The same applies to single-variety bricks from the demolition of buildings. We take these back and reuse them in ground form as a lean material in production. If this is not possible for quality reasons, it can be used for one of the alternative applications mentioned above.

Broken bricks and disposal

If the recycling options described above are impractical, unmixed brick residues, broken bricks and bricks from demolition can be easily disposed of and do not pose any particular burden on the environment. They can be disposed of in approved construction waste landfills without further ado.

In addition, we are affiliated with the Interseroh disposal system under the number 25055. The recycling of materials necessary for production and logistics, such as paper or mixed plastics, results in a calculated saving of 159 metric tons of resources and an additional 17,478 kilograms of greenhouse gases per year (according to the 2024 certificate).

Clay quarrying area in the immediate vicinity of the factory | Photo: Alexander Bernhard

Reclaimed clay pits | Photo: HG Luftaufnahmen

SUSTAINABLE PRODUCTION

Energy is a significant production and cost factor for us. We need various energy supplies, including electricity and gas. The energy is primarily used for the following purposes:

- Operation of furnaces and drying facilities
- Operation of all machines such as robots, processing plants, conveyor belts, etc.
- Heating and power requirements in offices and factories
- Mobility of transport vehicles and company cars

Efficient energy and packaging management

Due to its high expenditure, the brick-making industry has always endeavoured to reduce the amount of energy it requires.

At GIMA, due to numerous measures such as

- improved firing technology,
- greater efficiency in the drying of blanks,
- heat recovery within the system,
- further process optimisation work and the
- production and use of energy from renewable sources,

the opportunities for conserving production energy have already been implemented to a very far-reaching extent.

The specific energy consumption per kilogram of brick has been reduced by about 40% from the mid 1970s to the present. A drastic reduction in emissions from the combustion of fossil fuels for energy production has also been achieved. The reduction in air pollutant emissions was achieved not only by reducing the specific energy demand per kilogram of material, but also by the simultaneous use of state-of-the-art air pollution control technology and the use of low-emission energy sources, natural gas and liquefied petroleum gas.

Transparent certification

We are audited annually and have an ISO 50001-certified energy management system (EnMS).

Efficient production facilities

We are the only factory in the world to produce such a wide range of different clay products in one location. There are eight plants on our site producing different products for the structure, facade and floor. The production facilities are continuously renewed and adapted to the current standards of efficient brick production.

Ecological production

We provide planners with EPDs for our products to assess sustainability. EPD is short for environmental product declaration. An EPD describes building materials, construction products or building components with regard to their environmental effects based on lifecycle assessments as well as their functional and technical properties.

This quantitative, objective and verified information relates to the entire life cycle of the construction product. When it comes to sustainable construction, buildings are considered and evaluated in terms of their ecological, economic and social aspects. Thanks to the EPD certificates according to ISO 14025 and EN 15804 for building materials, construction products and components, the environmental aspect can be incorporated into the sustainability assessment of buildings.

You can find the current environmental product declarations for our products online at www.gima-ziegel.de.

REGENERATIVE ENERGY

Our goal is to produce as much of the energy we need as possible ourselves in the long term. We currently need 22 million kilowatt-hours of electricity per year. The first step we took was to install photovoltaic surfaces with an output of 4,718 kWp on our factory roofs in recent years. This will enable us to generate approximately 5,350,000 kWh per year.

The electricity is used to operate our plants, and we can also use it to charge our electrically powered forklift trucks and to operate several charging stations for electric cars in the near future.

Wind power station

One current major project is the construction of the company's own wind power station, which could generate 11 million kilowatt-hours of electricity annually. The project is currently in the planning/approval phase, and is to be implemented in accordance with nature conservation and species protection regulations.

The planned turbine is approximately 250 metres high and the rotor diameter is 160 metres. The proposed site is located within the industrial area on the GIMA premises. It is a restored clay quarrying field that is currently being used for agriculture.

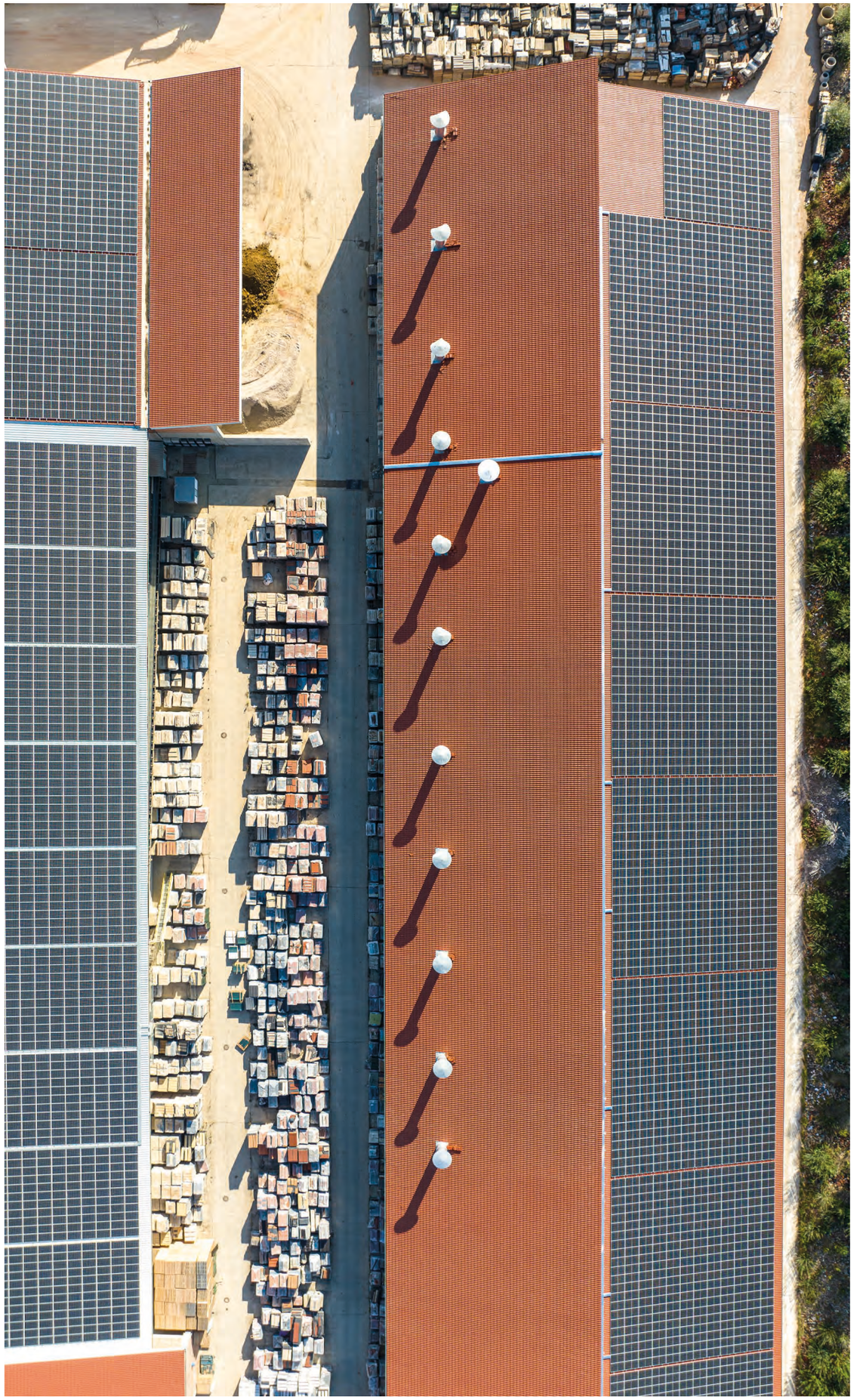
Our on-site consumption would be approximately 85%. The rest can be fed into the local grid, as generation and consumption are not 100% synchronous. In the long term, the energy is to be used entirely for our production operations with the help of electricity storage systems.

Gas mixing plant

Another investment is our own gas mixing plant, in order to become more flexible in the utilisation of gas. Our ceramic kilns can currently only be run with gas. A gas mixing plant offers the advantage that sustainable types of gas, such as hydrogen or biogas, can also be mixed in. As a result, we will no longer have to rely on one particular form of gas. Locally produced types of gas can be used and CO_2 emissions are reduced.

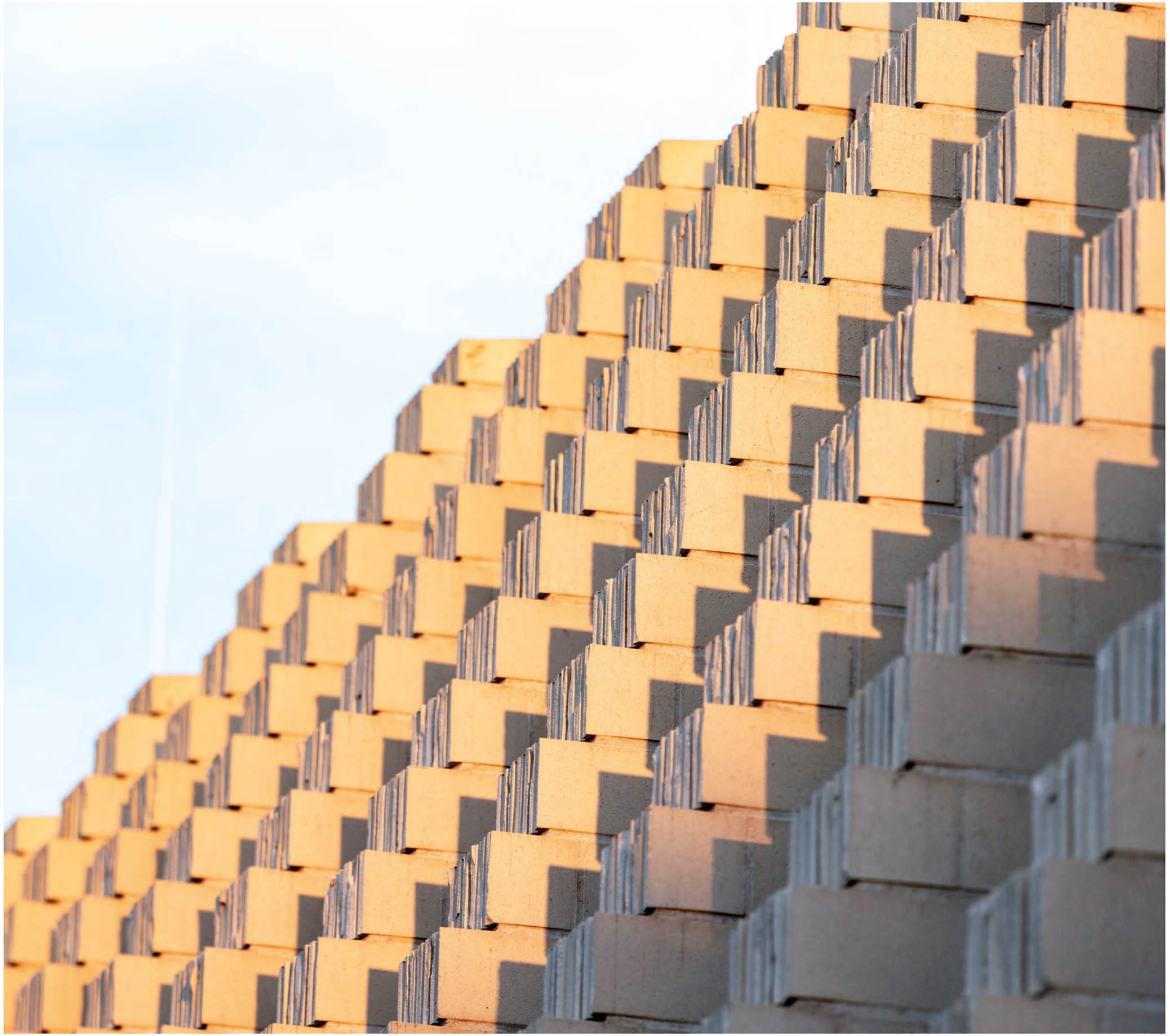
Heat recovery

The in-house heat recovery system is the result of the efficient conversion of our operating facilities. In this process, the warm exhaust air generated during the firing process is discharged at the end of the tunnel kiln. The exhaust air reaches the drying chambers via pipes so they do not have to be heated with additional energy. This heat source is also used to heat our plants.



Photovoltaic modules on factory roofs | Photo: HG Luftaufnahmen

Bricks for the Facade.



SCAPE, part of the Quartier at Tacheles, Berlin | Herzog & de Meuron, Basel | Photo: Koy + Winkel

Museum extension Küppersmühle, Duisburg | Herzog & de Meuron, Basel | Photo: Jörg Seiler

Every brick has a story.

Unique and diverse bricks – the material that our facades are made of. A traditional building material, produced in Germany with the knowledge of state-of-the-art facade technology and the desire for continuous development.

Each project starts with an idea, a sketch, a claim, a quality. On the following pages we will show you how versatile the use of GIMA bricks can be in the realisation of a wide variety of buildings.

Discover the variety of brick facades with numerous impressive project examples. Many more can be found online at www.gima-ziegel.de.

BRICKS FOR THE FACADE

The NF/DF bricks	Page 16
The prefabricated brick elements	Page 18
The bar-format bricks	Page 20
The special-format bricks	Page 22
The brick slips	Page 24
The large-format bricks	Page 26
The ceramic baguettes	Page 28
The acoustic bricks	Page 30
The handmade bricks	Page 32

NF & DF bricks
Erbusco FK, Fossano
240 x 115 x 52 mm | 240 x 115 x 40 mm

City archive, Balingen
Administration building
Office for structural engineering and building management, Balingen

THE NF/DF BRICKS. The classic normal-format brick (NF) has the dimensions 240 x 115 x 71 mm. Alternatively, there is the what is known as the thin format (DF) with dimensions of 240 x 115 x 52 mm. Each brick is individual and is developed and produced at GIMA exactly according to the wishes of the planner and the requirements of your project. Discover the variety that is possible through our production processes.

Photos: Alexander Bernhard

NF & DF bricks
Erve FK + Special surfaces
240 x 115 x 52 mm

Walther-Meissner-Building at PTB Berlin, Berlin
Institute building
Rohdecan Architekten GmbH, Dresden

Photos: Koy + Winkel

Prefabricated brick elements and Euromodul bricks
Bologna
490 x 200 x 35 mm

Hotel Werk 17, Munich
Hotel building
Hild und K Architekten, Munich

THE PREFABRICATED BRICK ELEMENTS. The perfect solution for difficult facade details. Prefabricated brick parts are ideally suited for use on lintels, for rounding and in areas of the facade that are difficult to access.
The dovetail gearing is what distinguishes GIMA's quality. This technical detail allows perfect interlocking between concrete core and brick. The prefabricated brick parts are produced in the GIMA factory and only need to be mounted on site. Together with the rest of the facade, the surface is grouted, creating perfect visual unity.

Photos: Alexander Bernhard

Prefabricated brick elements and DF bricks
Edolo FKS
240 x 115 x 52 mm

Commercial building Pasinger Marienplatz, Munich
Residential and commercial building
Auer Weber Assoziierte GmbH, Munich

Photos: Meilenstein Kreativagentur

Bar-format bricks
Pozzella FKSG, Assortment Falcone
490 x 115 x 40 mm

Residence, Hamburg
Residential building
LA'KET Architekten GmbH, Hamburg

THE BAR-FORMAT BRICKS. The elegant brick in long format up to 590 mm. The stretched format gives every facade an immediate dynamic look. As with all GIMA products, the dimensions can be individually produced. For the bar-format bricks, state-of-the art and precise production processes are used to prevent deformation of the brick.

Photos: Ulrich Hoppe

Bar-format bricks
Edolo FKS
490 x 90 x 52 mm

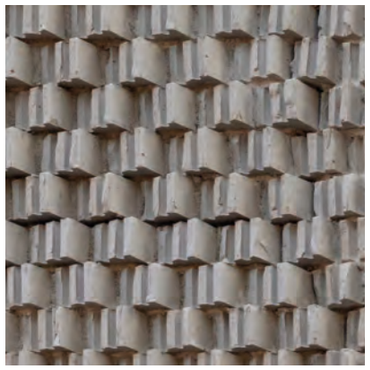
Learning site at OTH Regensburg, Tirschenreuth
Administration building
Brückner & Brückner Architekten GmbH, Tirschenreuth

Photos: Marie Luisa Jünger

Special-format bricks and shapes
Special color, gray
120 x 145 x 150 mm, broken

SCAPE at Quartier at Tacheles
Residential and commercial building
Herzog & de Meuron, Basel

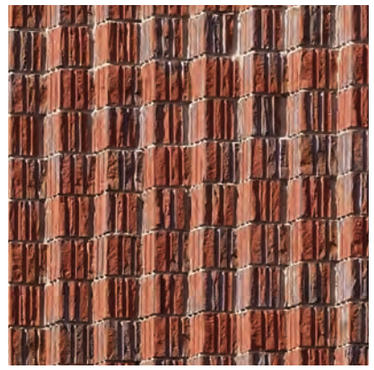
THE SPECIAL-FORMAT BRICKS. At GIMA, the bricks are custom-made according to the wishes and project requirements of the planners. The object-specific production allows for preferred colors as well as specific special shapes. In our laboratory and our factories, we carry out tests until the perfect shape, surface and color are found. Here you can see examples of special formats and broken surfaces.



Photos: Koy + Winkel

Special-format bricks
Breno FKS
280 x 115 x 144 mm, broken

Museum extension Küppersmühle, Duisburg
Museum
Herzog & de Meuron, Basel

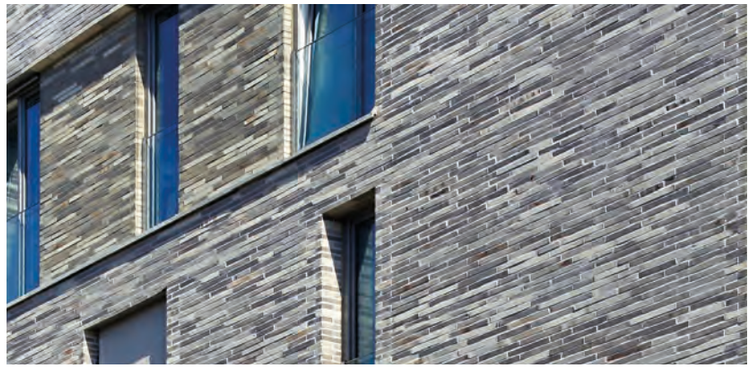


Photos: Jörg Seiler

Brick slips
Erbusco FK, Ebella FK
490 x 15 x 40 mm

St. Johannis Quartier, Nuremberg
Residential building
BLAUWERK Architekten GmbH, Munich

THE BRICK SLIPS. This product group guarantees a perfect brick look. The slips are always produced as a classic brick and cut to measure, which can take place both in the factory and on-site. This procedure has the advantage that all moulded bricks, e.g. for lintels, corners of buildings or angles of relief, can be manufactured in one piece.



Photos: Alexander Bernhard

Brick slips
Elmo FK, white slurried
240 x 15 x 71 mm

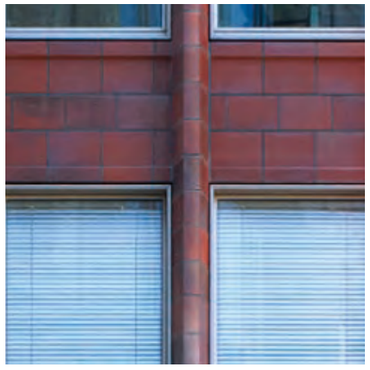
Living at Verna-Park, Rüsselsheim
Residential building
Baur & Latsch Architekten, Munich

Photos: Sebastian Scheels

Large-format bricks
Special color, HQB
160 different formats

Hackesches Quartier, Berlin
Commercial building
Thomas Müller Ivan Reimann Gesellschaft von Architekten mbH, Berlin

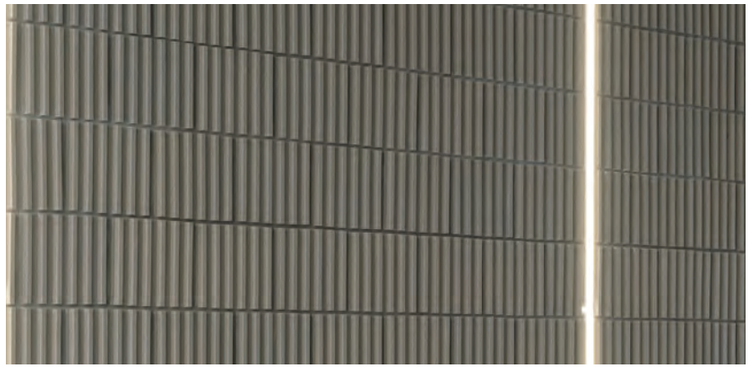
THE LARGE-FORMAT BRICKS. This type of brick in sizes of up to 600 x 600 mm allows the joint pattern to take a back seat. The GIMA terracotta facade presents a special form. The large-format terracotta tiles are cut on four sides and are mainly produced in natural tones.
In addition to the classic rectangular format, numerous special shapes are possible here, so even special curves and corners can be implemented without any problems.



Photos: Stefan Josef Müller

Large-format bricks
Bologna and Pallare
240 x 115 x 190 mm

Residential buildings Adalbertstraße, Berlin
Office and commercial building
Baumhauer Architekten, Berlin

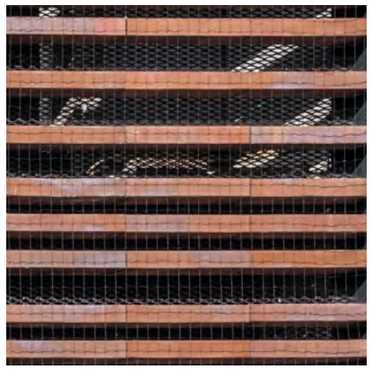


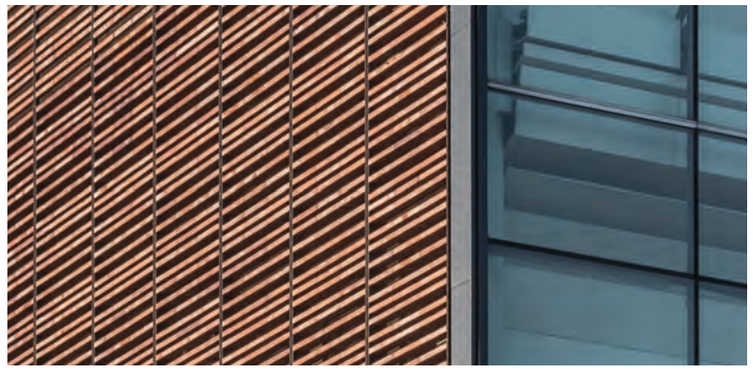
Photos: Jan Bitter

Ceramic baguettes
Breno FKS
3 baguettes, each 575 x 150 x 71 mm

Mö 1, Hamburg
Commercial building
Heine Architekten Partnerschaft mbB, Hamburg

THE CERAMIC BAGUETTES. At GIMA, new ways of staging the brick are always being explored. A completely new product group was therefore created for the Mö 1 project in Hamburg. In this case, several brick baguette elements are 'threaded' onto an aluminium rod to produce a brick in an extremely long format. On-site, the brick baguettes are then suspended in a pre-assembled steel construction.



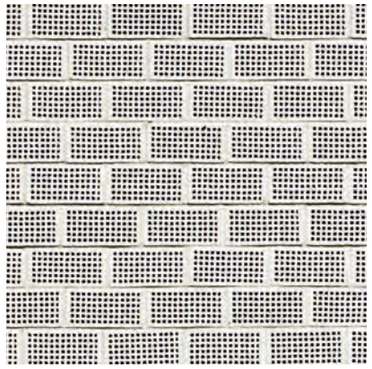


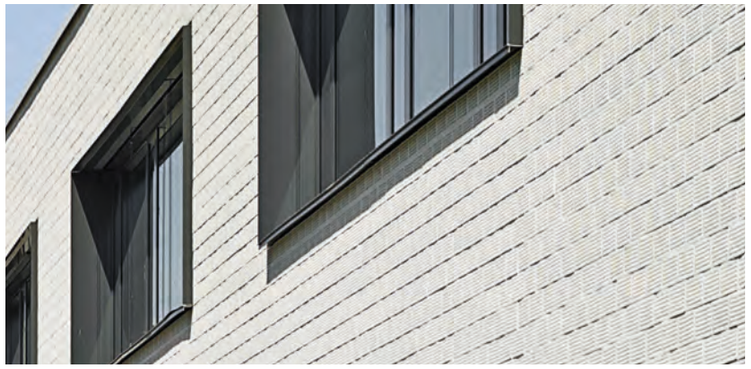
Photos: Anke Müllerklein

Acoustic bricks
Passo
237 x 90 x 113 mm

Kilian-von-Steiner-Schule, Laupheim
School
hotz + Architekten PartGmbB, Freiburg

THE ACOUSTIC BRICKS. The characteristics of this special shape appeal both on the outer wall and inside. In addition to use in the building sector, this product group is also popular in road construction, especially for noise barriers. If you value noise protection and an appealing appearance, GIMA acoustic bricks are well advised.

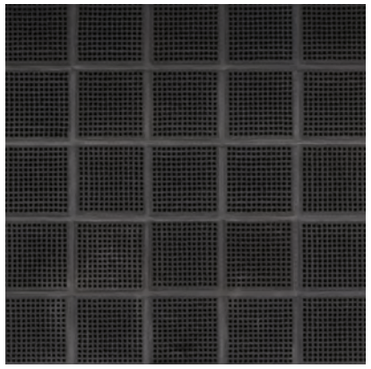




Photos: Bernhard Strauss

Acoustic bricks
Pescara
240 x 240 x 52 mm

University of Music, Lucerne
University building
Enzmann Fischer Partner AG, Zurich



Photos: Annett Landsmann

Handmade bricks
Neuburg
250 x 120 x 65 mm

Bundesstiftung Baukultur, Potsdam
Administration building
Springer Architekten with G. Heidenreich, Berlin

THE HANDMADE BRICKS. Not many brick producers still utilise the manual brickmaking process. These bricks are mainly still used for restorations or new buildings in historic environments. The producer of handmade bricks uses his muscle power to manually produce each piece. This results in the individual surface of the handmade bricks, which looks particularly lively.

Photos: Bernd Hiepe

Handmade bricks
Special color, Dom Munich
Various special formats

Frauenkirche, Munich
Church
Staatliches Hochbauamt 2, Munich

The Frauenkirche in Munich is one of GIMA's largest restoration projects. We have been supplying handmade bricks for the restoration of specific facade areas for decades, depending on requirements.

Photos: Alexander Bernhard

Bricks for the Floor.

Blücherplatz, Spenge | Franz Reschke, Berlin | Photo: Anke Müllerklein

Seebrücke, Timmendorf | ANDRESEN LANDSCHAFTSARCHITEKTEN, Lübeck | Photo: Koy + Winkel

Each path remains colorfast.

Individual and durable. Paving bricks and clay floor solutions are characterised by their sturdy durability, low maintenance costs and high cost-effectiveness. They can withstand the highest demands and appeal to planners with individual design options.

From the development of public open spaces to private terrace and path design and the restoration of listed structures: on the following pages, we show you how versatile the use of GIMA paving bricks and floor solutions is for a wide variety of surfaces.

Discover the versatility of clay with numerous impressive project examples. Many more can be found online at www.gima-ziegel.de.

TABLE OF CONTENTS

The stock range of pavers	Page 38
The classic pavers	Page 42
The bar-format pavers	Page 46
The CERPIANO^{+}-Terrace system	Page 48
The ceramic floor tiles	Page 50
The handmade floor tiles	Page 52

Stock range of pavers
Nazare
240 x 118 x 71 mm

State Archaeological Collection, Munich
Forecourt
Mahl-Gebhard Konzepte, Munich

THE STOCK RANGE OF PAVERS. In addition to paving bricks in ten colors and four formats, our paving-brick range also includes lawn bricks and pavement slabs in two to three variants of shape and color. All classic paving bricks in the warehouse range are produced without bevels and are provided with laying aids that ensure maximum efficiency during installation.

Photos: Alexander Bernhard

Stock range of pavers
Faro, Porto, Franto
240 x 118 x 52 mm

Nature children's house, Bodenkirchen
Educational institution
Büttner + Klaus LAR, Untergolding

Photos: Alexander Bernhard

Stock range of pavers
Mahagoni
200 x 200 x 71 mm

New boiling plant, Munich
Terraces and foyer
Rainer Schmidt Landschaftsarchitekten GmbH, Munich

Photos: Alexander Bernhard

Stock range of pavers
Granat
240 x 118 x 71 mm

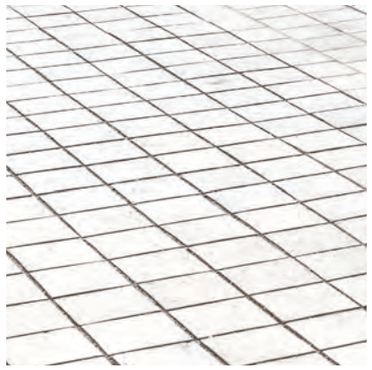
Middle school, Regen
Educational institution
Brunner Architekten Ingenieure GmbH, Viechtach

Photos: Alexander Bernhard

Pavers
Special color, gray
192 x 192 x 80 mm

Quartier at Tacheles, Berlin
Square design
Herzog & de Meuron, Basel in cooperation with
Vogt Landschaftsarchitekten AG, Berlin

THE CLASSIC PAVERS. In addition to our compact stock range of paving bricks, we produce any format and color exactly according to the planner's wishes – i.e., highly individually. In addition, we can also produce special forms such as bricks for tactile floor coverings or lawn bricks with particularly high seepage capacity on an order-by-order basis.



Photos: Koy + Winkel

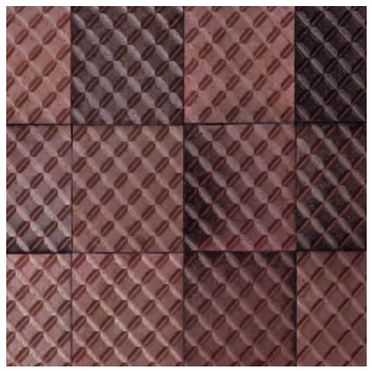
Pavers
Granat FKS
390 x 71 x 115 mm

Diamaltpark, Munich
Square design
Pangratz + Keil Landschaftsarchitekten, Munich

Photos: Alexander Bernhard

Paving slabs
Red-brown colored, studded
210 x 210 x 43 mm

Parque de la Musica, Seville
Public park
Studio Costa-Fierros, Seville



Photos: Pablo F. Díaz-Fierros

Pavers
Nine different colors, glazed and natural
240 x 115 x 71 mm pre-notched and 490 x 52 x 115 mm

Refurbishment of John Brinckman-Brunnen, Rostock
Public space
Andreas Sachsenmaier, Berlin

Photos: Berthold Brinkmann

Bar-format pavers
Pisa, Palermo, Pescara, Umbra
320 x 52 x 115 mm

Pariser Platz, Cologne
Public space
LAD+ Landschaftsarchitektur Diekmann, Hannover

THE BAR-FORMAT PAVERS. The elegant long-format version of the paving brick is a special form of brick for structures and is enjoying increasing popularity. The format gives every floor modernity and naturalness. Since here too, individual production is always based on orders, the planner is completely free to choose the brick color and the exact format.

Photos: Heike Stamper

Bar-format pavers
Visconte
320 x 52 x 100 mm

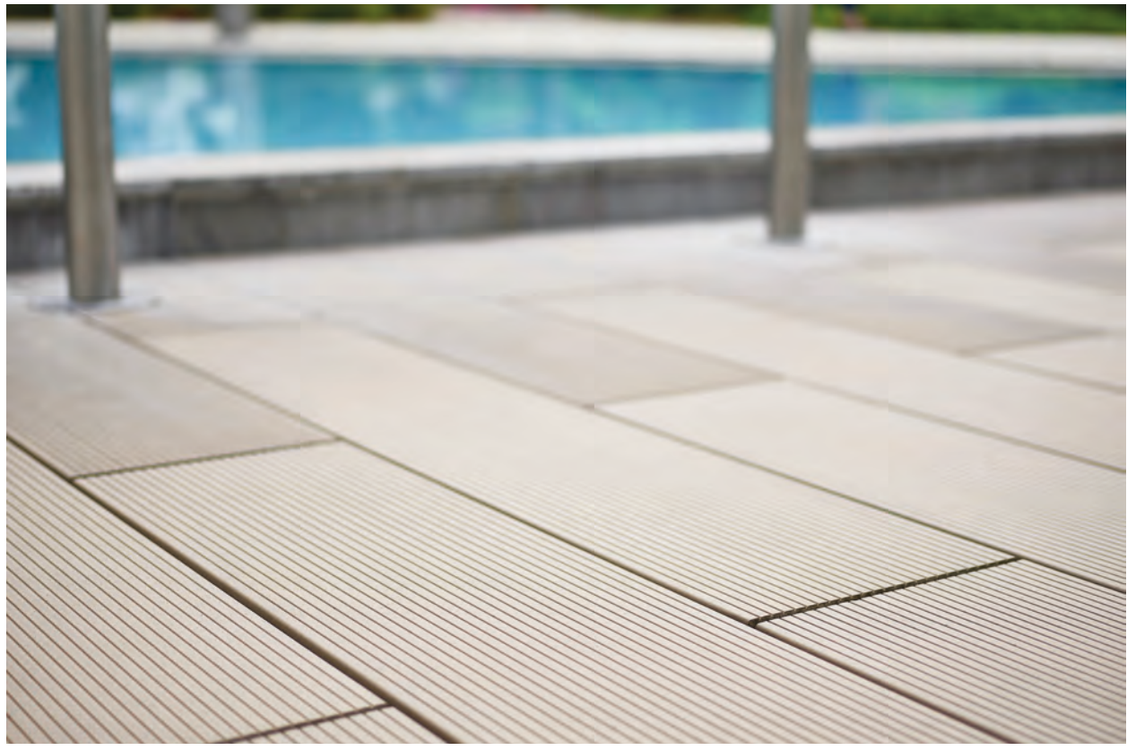
Blücherplatz, Spenge
Public space
Franz Reschke, Berlin

Photos: Anke Müllerklein

CERPIANO⁺ terrace system
Titanium gray, grooved
1492 x 325 x 40 mm

Therme, Bad Füssing
Terrace
LUEHRS & BACHMANN, Bad Füssing

THE CERPIANO⁺ TERRACE SYSTEM. The modern clay decking is available in standard titanium gray, volcano gray, chestnut brown and carmine red with smooth or grooved surfaces. In addition, of course, any other desired color can be produced depending on the structure. The terrace system is suitable for private use as well as for larger outdoor areas in public spaces thanks to its special sustainability, stable value and very modern appearance.



Photos: Alexander Bernhard

CERPIANO⁺ terrace system
Carmine red, grooved
1492 x 325 x 40 mm

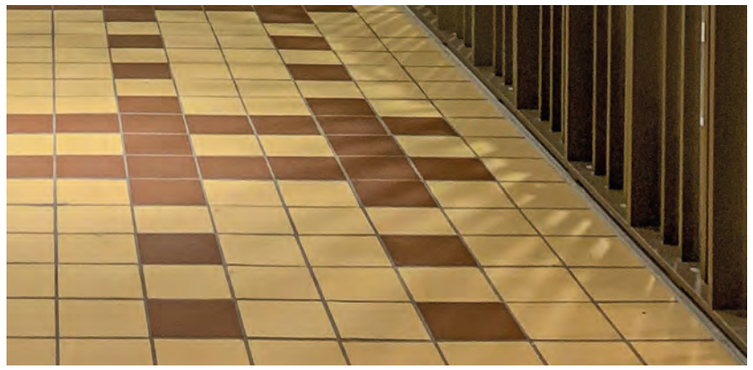
Natural pool, Dingolfing
Terrace
Schegk Landschaftsarchitekten BDLA, Haimhausen

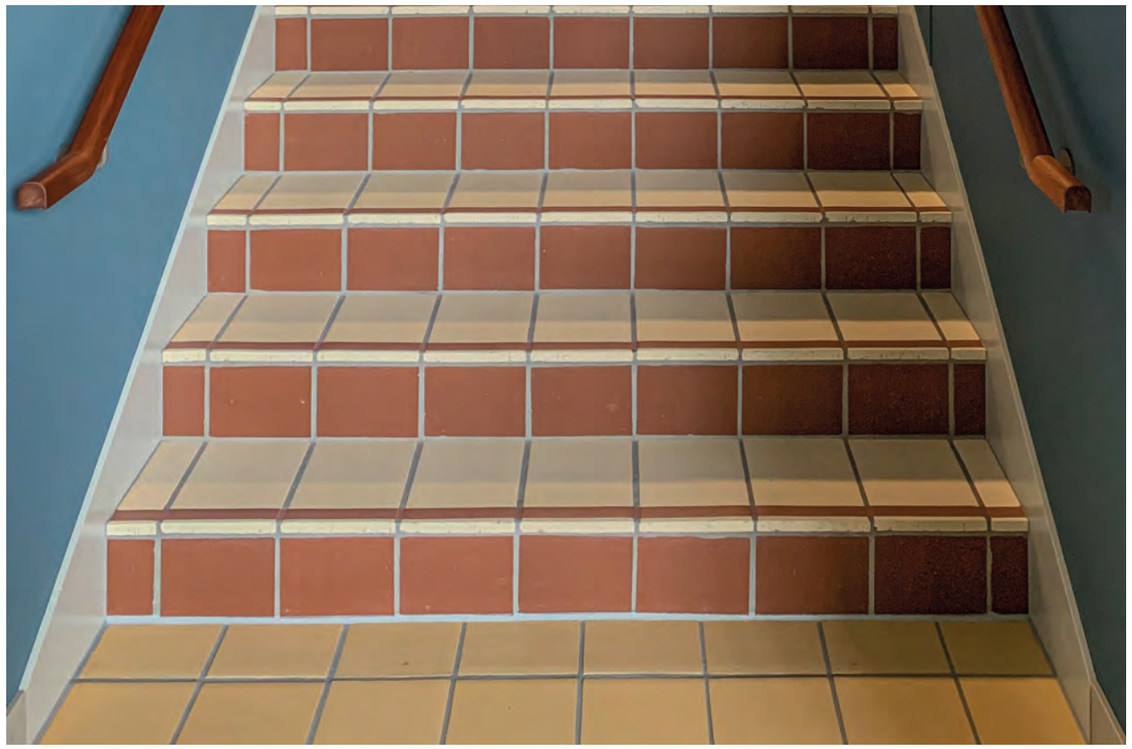
Photos: Alexander Bernhard

Floor tiles
Tresana, Luna, Pezzana, Palermo, Tammaro, Pallare
380 x 200 x 20 mm + 200 x 200 x 20 mm

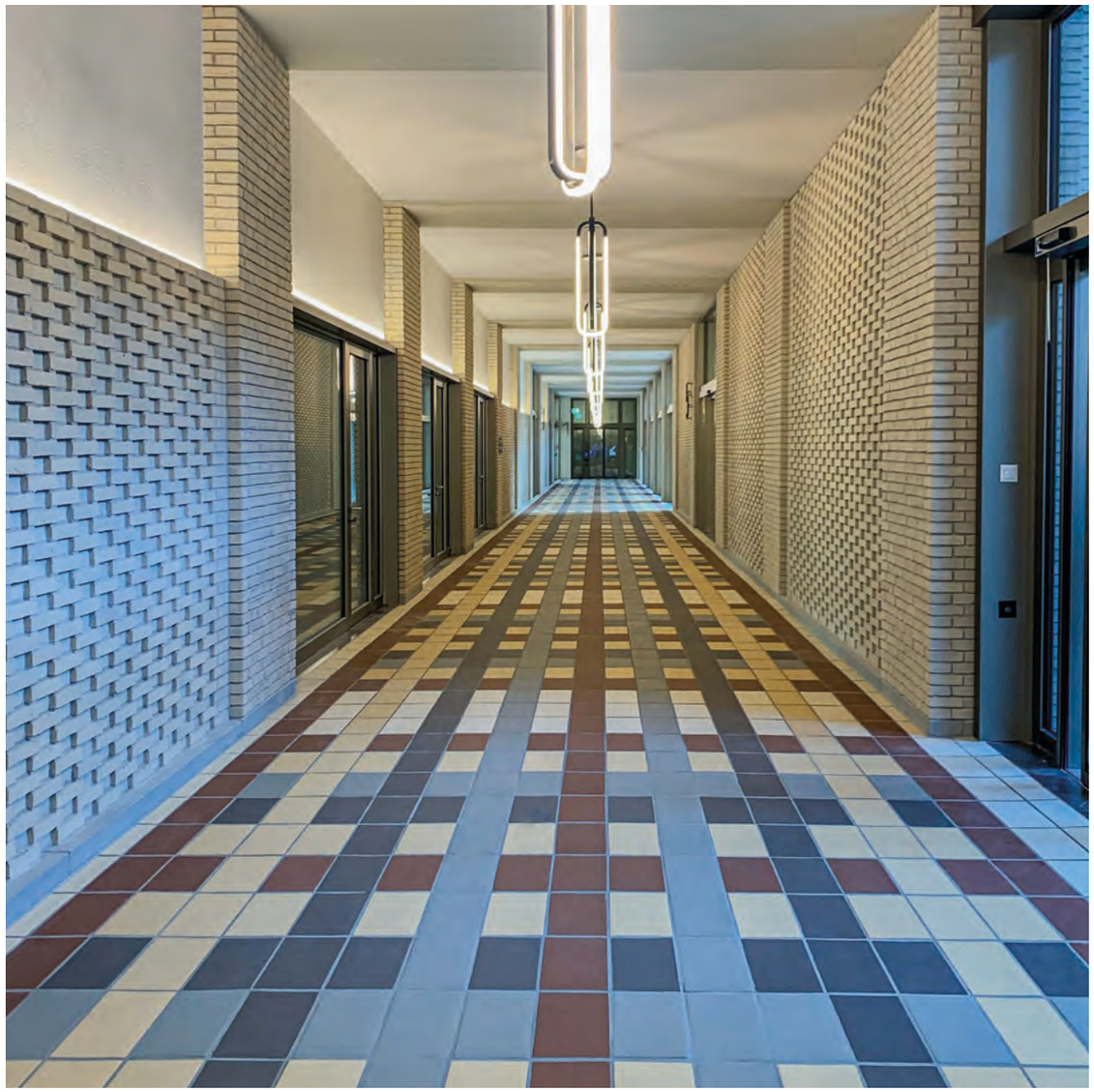
Geistlich Areal, Schlieren
Residential and commercial building
Graber Pulver, Zurich

THE CERAMIC FLOOR TILES. Compared to the paving brick, the floor tile is a significantly flatter variant of the floor design with bricks. Therefore, they are usually laid in mortar. They are used outdoors as well as indoors. Numerous formats are possible for the floor tiles, and special shapes or skirting boards are also included in the product range.





Photos: Fehlmann AG



Handmade floor tiles
Waldram
Special form, 280 x 255 x 30 mm

Alte Münze, Munich
Public building
Designing architect 1563–1567: Bernhard Zwitzel

THE HANDMADE FLOOR TILES. GIMA still manufactures highly individual clay floor tiles with the traditional handmade process today. Due to the manual shaping, no tile is the same as another. The handmade process gives the floor tile an appearance that is ideal for all kinds of restorations.

Photos: Alexander Bernhard

PAVING-BRICK PROPERTIES

Paving bricks are the ideal building material for high-quality outdoor coverings. In addition to shape and color, it is also the numerous laying patterns that make paving bricks suitable for all types of paved outdoor areas – from private garage entrances, footpaths and cycle paths to pedestrian zones, public squares or even road types in construction classes 3.2 and 1.8. Here you can see the most important advantages of paving bricks at a glance:

Guaranteed quality

GIMA paving bricks are subject to the 'Original Paving Bricks – Tested Quality' quality label and thus guarantee the highest quality standards and the greatest product safety, as well as lasting value. This is ensured by compliance with the highest requirement classes for paving tiles in accordance with DIN EN 1344, quality of paving bricks in accordance with DIN 18503 and regular and independent quality monitoring of the product properties.

Easy installation

GIMA paving bricks can be provided with integrated laying aids at the edges. This makes it easier to ensure the joint spacing between the bricks and makes it easy to place them next to each other – for a uniform joint pattern, laid quickly and efficiently.

100% frost and de-icing salt resistance

GIMA paving bricks are 100% frost and de-icing resistant. This guarantees a very long service life, even on busy roads and pavements with winter service.

Naturalness

Paving bricks are made of the natural components loam and clay. The raw materials used are largely mined in the immediate vicinity of our plant in Marklkofen and transported in an energy-efficient manner.

Resistant to chemicals

Paving bricks appeal with their lifelong resistance to heat, cold, UV light and chemicals. They have a high resistance to acids, alkalis and oils, and are therefore also suitable for use as a floor covering for driveways, courtyards or roads subject to heavier loads.

Color fastness and durability

Paving bricks are available in a variety of natural colors. Even after years, they are absolutely color-fast and can be cleaned without worry if necessary. Due to their long service life, paving bricks are extremely sustainable and conserve economic and natural resources.

Slip resistance and load capacity

Our paving bricks are in the sliding and slipping resistance class U3. Areas crossed by cars, as well as pavements or terraces, are also suitable for the use of paving bricks.

Seepage capacity

With the help of appropriate joints and suitable bedding material, paving bricks are permeable, which means that rain and surface water can seep sufficiently into the paved areas and surface sealing is counteracted.

TIPS FOR LAYING PAVING BRICKS

Paving bricks wear the colors of nature

Natural aesthetics – vibrant green and burnt clay

It is always an advantage to plan for the outdoor area before you carry out planning works for the building. One major focus is certainly on planting, but the selection of the right floor covering, as well as the laying pattern, is important for the aesthetics of the overall ensemble.

The original paving bricks are a proven surface, harmonious and well suited for every type of building – whether classic or modern, rural or urban. They match the green of the surroundings and the individual architectural style.

Paving bricks create order and harmony

A uniform, harmonious order can be created, for example, by incorporating the building proportions into the terrace form, by clear garden spaces with geometrically running path axes or curved paths, by path connections running directly to the entrance and by harmonious transitions into different garden areas. Each laying pattern is a recognisable system that follows its own rules.

Paving bricks and seepage

In addition to the diverse special shapes, permeable paving brick systems can also be produced by suitable laying with joint widths between 15 and 30 mm. The joints must be filled with water-permeable mineral mixtures for permanent seepage capability.

ORIGINAL PFLASTER® GEPRÜFTE QUALITÄT KLINKER

The 'Original Paving Bricks – Tested Quality' quality label of the Arbeitsgemeinschaft Pflasterklinker e.V. guarantees:

- Compliance with the highest requirements in accordance with to the European standard DIN EN 1344:
  - Measuring range – class R1
  - Bending breaking load – class T4
  - Abrasion resistance – class A3
  - Freeze-thaw resistance – class FP100
  - Sliding/slipping resistance – class U3
- Paving brick quality in accordance with the new German standard DIN 18503 with a limitation of water absorption to a maximum of 6% and with a body density of at least 2.0 kg/dm³ on average
- Regular and independent quality control of the product properties

Material requirements standard values per m²

Paver format in mm	Req. incl. joint/m²
180 x 90 mm	58-62
200 x 100 mm	46-50
240 x 118 mm	34-36
290 x 140 mm	22-23
180 x 180 mm	29-31
200 x 200 mm	23-25
240 x 240 mm	16-17

Plus offcuts

Required tools for professional laying

- Wet saw
- Peel-off slats (aluminium)
- Gauges (round tube, profiled wood pull-off plate)
- Surface vibrator with neoprene protection on the underside
- Spirit level
- Hose level
- Tape measure
- Cord irons
- Paving hammer
- Wheelbarrow
- Broom
- Ranging poles
- Yardstick
- Cord

GIMA installation notes

- GIMA paving bricks can be laid on both sides; with bright colors, the interplay of colors can be created independently by turning the stones.
- At regular intervals, the alignment must be checked and adjusted by means of a cord.
- Establish the substructure at frost depth and check the corresponding load class.
- Use lime-free jointing and bedding material with a grain size of 0-4 mm (for example granite or basalt chippings).
- Compress the bedding material to a layer height of approx. 4 cm.
- Fill the joints with bedding material after laying and ensure stability by final shaking (with rubber mat).
- Finally, seal the joints by filling the paving bricks with crushed sand or granite sand (note: no quartz sand).

Material recommendations for bedding and joints

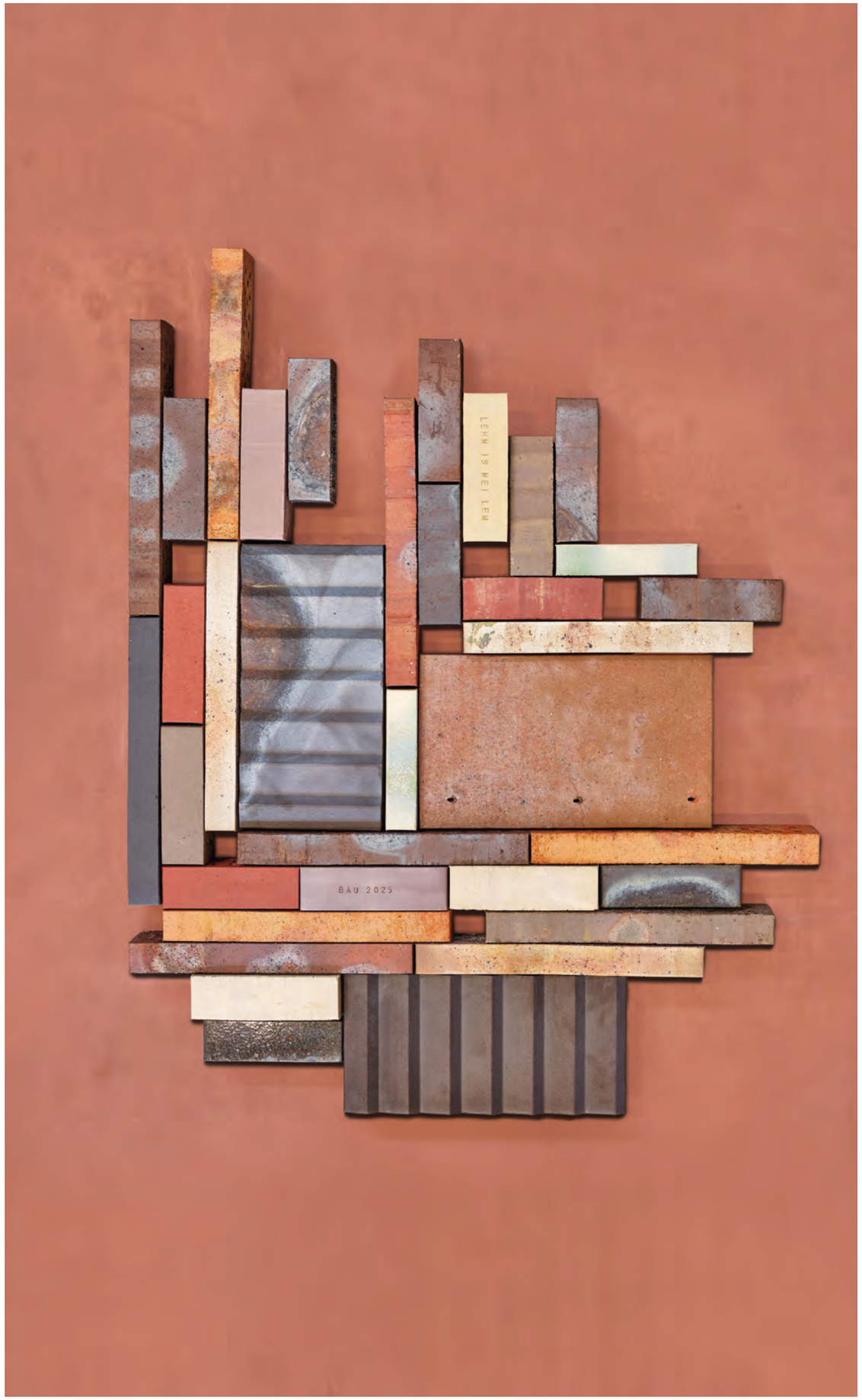
Bedding material

Bedding thickness:	30 to 50 mm
Material:	Graded natural sand/gravel mixtures (washed), crushed sand/gravel mixtures made of hard rock such as basalt, diabase, etc. are suitable.
Grain size:	0/4 mm, 0/5 mm

Joint material

Joint width:	3 to 6 mm
Material:	Like bedding material, grain graded
Grain size:	Like bedding material, but fine joint sand in 0/2 or 0/3 mm for joint closure

Attention No bedding or jointing material containing efflorescent substances should be used. Be careful with recycled materials.



Samples | Photo: Alexander Bernhard

Ideas become samples.

It is not only in the design that we precisely respond to the ideas of the planners. Experimentation is also carried out with the desired color until the result is 100% right.

In our in-house color laboratory, each color is developed and tested before production. Each batch is precisely tested for color fastness in accordance with our quality standards, for the perfect result on the finished structure.

At GIMA, any desired color can be produced for any format. You can order individual color samples or sample panels at any time online at www.gima-ziegel.de.

TABLE OF CONTENTS

Planner service for your project	Page 60
Fire Glazed	Page 62
Recycling bricks	Page 64
SURFACE tiles	Page 66
Color examples, facade	Page 68
Color examples, flooring	Page 82

PLANNER SERVICE FOR YOUR PROJECT

High-quality clay products

High product quality is essential for the long-term success of any project. Our bricks are completely colored and no artificial colors are applied. Due to the high temperature at which they are fired, our products are frost-resistant and resistant to UV light. All colors and formats can be freely selected due to the structure-related, individual production. A watermark look, rough surfaces or other special surfaces are possible at any time due to the order-specific production. The durability of the facade is guaranteed at all times by the high quality standards.

Design phase consultation

Customer focus and customer satisfaction are particularly important to us. Our experienced team will support you from the initial idea onwards. Our experts with years of experience are at your side right from the design planning stage, as there is often a long way to go from the first draft to the final form and color scheme. We create sample panels for you and of course also support you in setting up mock-ups — with our planning-accompanying sampling, we provide the perfect basis for decision-making.

Support in the planning phase

In addition, we offer you expert service during the project planning and implementation phase. In addition to a comprehensive collection of technical details, we also provide you with text suggestions for specifications. We support you in the detailed planning of the facade as well as in the consultation with the client. Our team of technicians also prepares project-specific structural calculations and static calculations for prefabricated brick parts — GIMA offers the entire service package from a single source.

Development of an individual facade

The right color is always achieved in the in-house laboratory through the appropriate mixture of raw materials. Meeting the desired color, surface or feel of the brick material is an exciting process, based in part on the development team's experience over decades. For reproductions or similar enquiries, the colors of all bricks are digitally measured and stored in the company's own database, as are the raw material composition and the data of the firing process.

OUR RANGE OF TEXTURES

From sample to production

The adjacent QR code will take you to our website, where you can order individual samples or request a sample panel with the desired color in the correct format. If the desired bricks are not currently available, we will offer you a suitable alternative.

The sample panel will usually be delivered to you personally by our respective sales representative. This gives you the opportunity to clarify technical questions and discuss production details at an early stage. As soon as the final color of the facade has been coordinated, the approved sample panel will be returned to our factory to match each batch during production and thus ensure the accuracy of the color at all times.

Ready for CAD – ready for your ideas

Planning is now digital. Textures are of fundamental importance for this. They not only make planning easier, but also ensure a more compelling presentation. After all, in architectural visualisations, textures often have a major influence on the final look of the project.

In order to be able to realistically plan and impressively present brick facades from the outset, GIMA has published an extensive range of finished CAD textures available for download free of charge. This allows you to not only realistically map more than 70 of our brick types, but also to create your own textures by mixing several varieties. There are over 60 textures and laying patterns for designing floors. This saves time and provides high-quality textures created specifically for architectural visualisation.

Comprehensively usable with any program

You can download our texture images in JPG format from our website with just one click, and then use them in any CAD or rendering program, such as AutoCAD and ArchiCAD, Vectorworks, MicroStation, Spirit, Revit or SketchUp.

They are also compatible with all popular 3D programs such as 3ds Max, Cinema 4D, Blender or Rhinoceros and can be used for desktop publishing (DTP) due to their high resolution – or for all multimedia.

GIMA textures at a glance

GIMA textures

- are high-resolution .jpg files (2048 x 2048 px on average)
- are based on specially created photo material
- provide a photorealistic look
- enable a seamless tileable look
- are perfectly compatible with common graphics and 3D software

You can access our color overview online via the QR code.

FIRE-GLAZED BRICKS

Here you can see a selection of all the fire-glazed variations we have produced so far. All brick products can of course be produced in your exact desired color and dimensions.

Fresno
240 x 52 mm

Seattle
290 x 52 mm

Malibu
290 x 52 mm

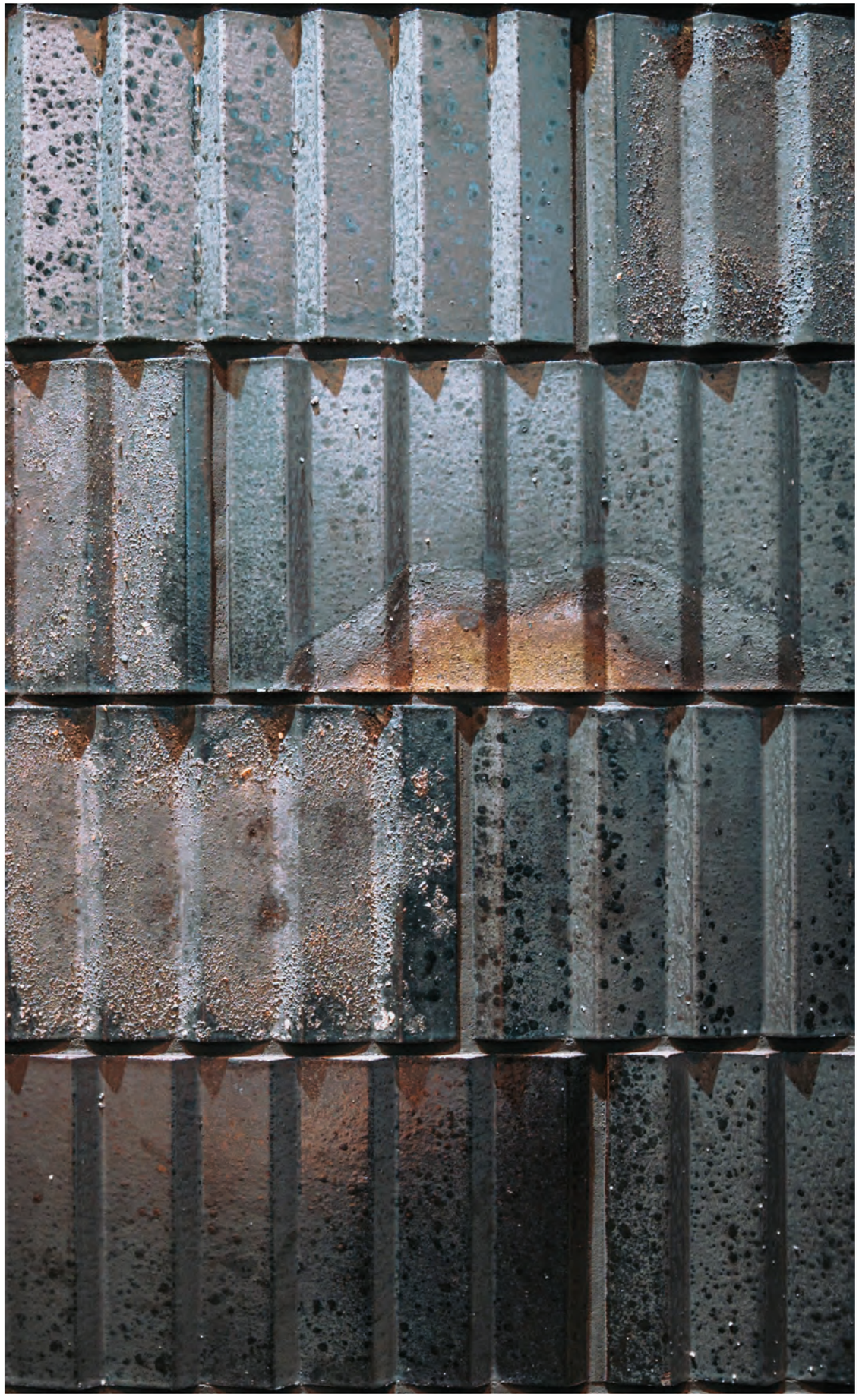
Portland
240 x 52 mm

Oakland
240 x 52 mm

Ontario
390 x 52 mm

Innovative firing method

With Fire Glazed, GIMA offers a new and fascinating surface variant for unique bricks. The bricks are coated with a glaze using items such as coal and salt before the firing process. This is burnt into the bricks, causing it to stick. After the firing process, the bricks must be partially broken apart again. The novel firing method – a combination of coal/salt firing and glazing – creates an individual look with alternately glazed and broken surfaces, with salt and coal firing, with edges and notches.



Fire Glazed Phoenix | Photos left: Alexander Bernhard | Photo right: Bauhaus Filmwerkstatt

Recycling bricks visual | Photo: Alexander Bernhard

RECYCLING BRICKS

Rovigo FK
490 x 52 mm

Ribera FK
240 x 52 mm

Ravenna FK
240 x 52 mm

Recco FK
490 x 52 mm

Rovato FK
490 x 52 mm

Rezzato FK
490 x 52 mm

Innovative firing method

GIMA bricks can currently be produced with a recycled content of up to 40%. Our research team is working on further increasing the share of secondary raw materials in future. Taking the technical ceramic characteristics of the raw materials used into account, the usual high product quality is achieved with the required properties for bricks.

SURFACE TILE PANELS

Here you can see a selection of previously produced colors.
Since each production is tailor-made, any color can be developed
in your desired format.

Edolo FK
500 x 300 mm

Breno FKS
500 x 300 mm

Prato FK
500 x 300 mm

Elva FK
490 x 240 mm

Erbusco FK
490 x 240 mm

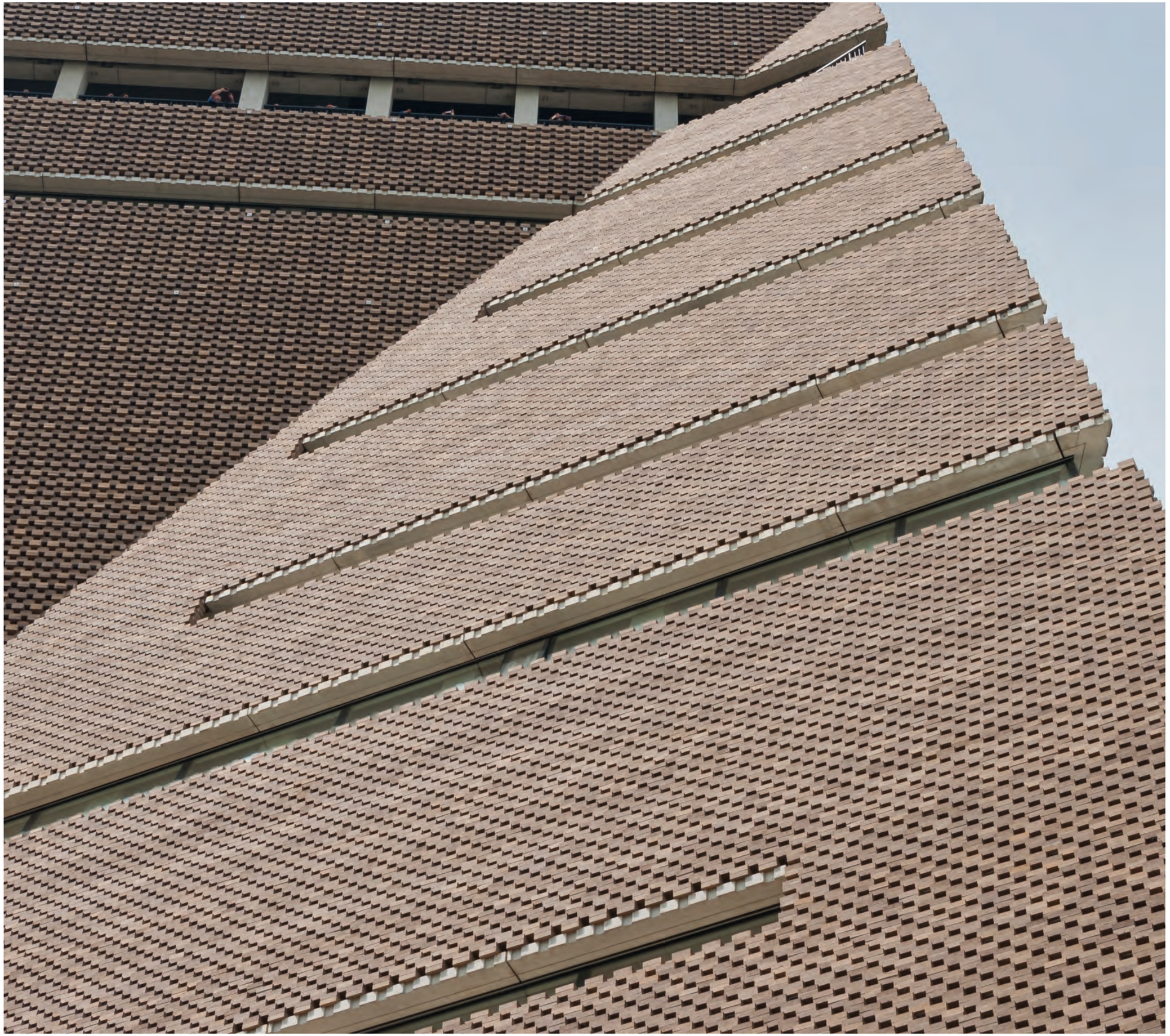
Este
490 x 240 mm

Modern shingle facade

With the large-format SURFACE tile panels, a classic shingle look can be achieved for the facade. Installation is simple: the slabs are attached to a wooden or aluminium substructure, similar to roof tiles. This ensures stability and quick installation. The panels are also easy to dismantle and fully reusable. In addition, they require hardly any maintenance, as they are seamlessly processed and have a weather-resistant and durable surface.

Erba FKS | Photo: Alexander Bernhard

Colors for the Facade.



Tate Modern, London | Herzog & de Meuron, Basel | Photo: Anke Müllerklein

Here you can see a selection of classic colors for handmade bricks.
Due to the traditional production method, each brick is unique.

Ettal
290 x 65 mm

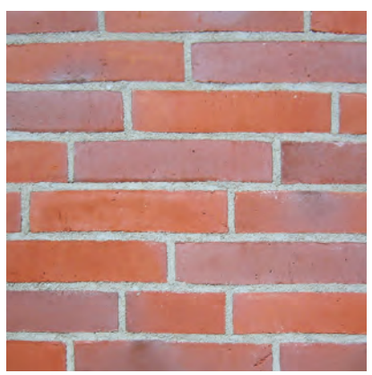
Neustift sanded
240 x 70 mm

Waldram
240 x 50 mm

Neumarkt
240 x 70 mm

Trausnitz sanded
240 x 50 mm

Waldram FKS
240 x 70 mm



Oberhaus
290 x 65 mm

Metten
290 x 65 mm

Neuburg
290 x 65 mm

Here you can see a selection of previously produced colors. Since each production is tailor-made, any color can be developed in your desired format.

Edolo
490 x 40 mm

Edolo FK
590 x 40 mm

Edolo FKS
590 x 52 mm

Este
590 x 40 mm

Este FK
590 x 40 mm

Passo
490 x 40 mm

Passo FK broken 2 gaps, partly glazed
115 x 145 mm

Episco
490 x 40 mm

Episco FK
490 x 40 mm

Eprimo FK slurried
490 x 52 mm

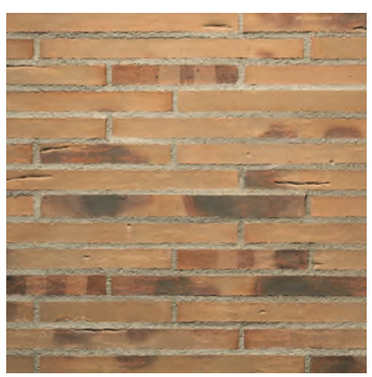
Tammaro
490 x 40 mm

Taranto
390 x 190 mm

Trento
327 x 215 mm

Trevi
490 x 40 mm

Trionto
365 x 115 mm



Elmas FK
490 x 40 mm

Elmas FK slurried
490 x 40 mm

Elva
490 x 40 mm

Elva slurried
490 x 40 mm

Elva FK
490 x 40 mm

Elva FK slurried
240 x 52 mm

Elva FKS
490 x 40 mm

Erve FK
490 x 40 mm

Esaro FK
590 x 40 mm

Escola FK
490 x 40 mm

Lagaro
240 x 71 mm

Lagoni
490 x 52 mm

Here you can see a selection of previously produced colors. Since each production is tailor-made, any color can be developed in your desired format.

Lagoni FK
240 x 71 mm

Lamone
490 x 52 mm

Lasino
240 x 71 mm

Lucca
240 x 71 mm

Lugano
490 x 40 mm

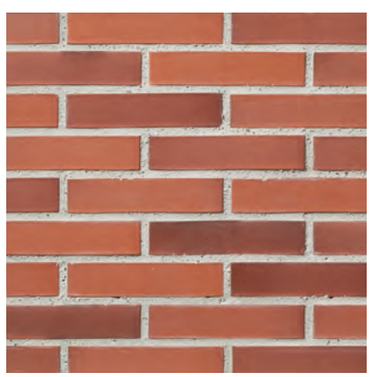
Luna
490 x 52 mm

Magano
240 x 71 mm

Magra
290 x 190 mm

Bazzano
240 x 71 mm

Bellori
240 x 71 mm

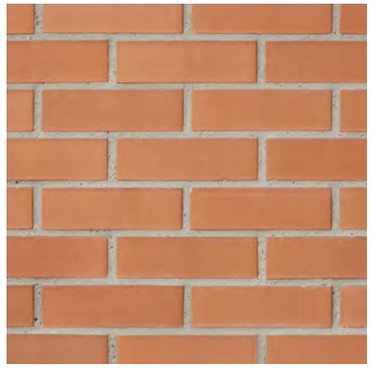


Belluno
240 x 52 mm

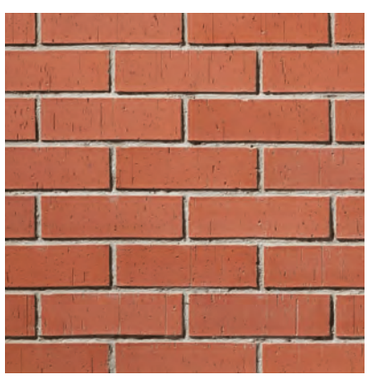
Belu
240 x 71 mm

Belu FK
240 x 71 mm

Bevano
440 x 215 mm



Brindisi
240 x 71 mm



Catania
240 x 71 mm

Econi
290 x 71 mm

Elice
290 x 71 mm

Elice FK
590 x 40 mm

Elini FKS
590 x 40 mm

Elmo FK
590 x 40 mm

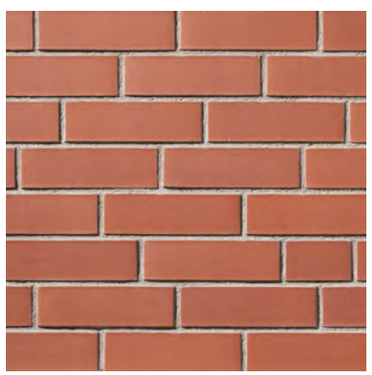
Elmo FK, slurried
240 x 52 mm

Elmo FKSG
490 x 40 mm

Bassano
240 x 71 mm

Bellagio
390 x 52 mm

Belmonte
240 x 71 mm



Bena
240 x 71 mm

Bologna
340 x 71 mm

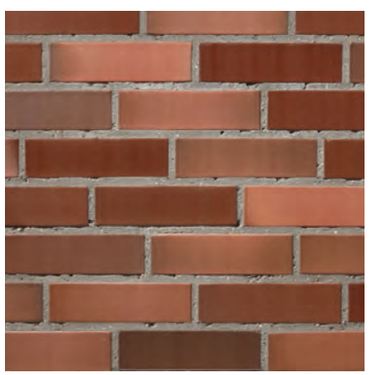
Breno FK
390 x 40 mm

Breno FKG broken with 2 gaps
120 x 85 mm

Breno FKS
240 x 71 mm

Breno FKSG
490 x 40 mm

Ellera
490 x 40 mm



Felino
240 x 71 mm

Turano
240 x 52 mm

Bannia
240 x 71 mm

Here you can see a selection of previously produced colors. Since each production is tailor-made, any color can be developed in your desired format.

Pilastri
240 x 71 mm

Pozzella
240 x 71 mm

Pozzella FKSG
490 x 40 mm

Ebella
490 x 40 mm

Ebella slurried
490 x 40 mm

Ebella FKS
490 x 40 mm

Ello
490 x 40 mm

Ello FK
490 x 40 mm

Erbusco
490 x 40 mm

Erbusco FK
490 x 40 mm

Erbusco FKSG
490 x 40 mm

Esine
490 x 40 mm

Paese
250 x 65 mm

Pallare
365 x 240 mm

Perano
590 x 40 mm

Perano FK
490 x 40 mm

Perano FKS
490 x 40 mm

Pezzana
490 x 40 mm

Have you already found your desired color? Then order a sample or sample panel in the desired format online or download the texture for your renderings.

Pisa
240 x 71 mm

Pisa FK
240 x 52 mm

Pisa FKS
490 x 40 mm

Ramo FK
365 x 71 mm

Argento
240 x 40 mm

Erba
490 x 40 mm

Erba FKS
490 x 40 mm

Erba FKSG
490 x 40 mm

Falcone
390 x 40 mm

Falcone FK
490 x 52 mm

Feletto
240 x 71 mm

Feletto FK
490 x 52 mm

Fine sleek
240 x 71 mm

Fossano
490 x 40 mm

Nimis FK
490 x 52 mm

Palermo
290 x 52 mm

Pescara FKSG
490 x 52 mm

Pescara FKSG slurried
240 x 71 mm

Colors for the Floor.

Private entrance, Geisenhausen | Englhardt Galabau GmbH, Geisenhausen | Photo: Alexander Bernhard

Here you can see the colors of our paving stock range.
These are always in stock in four common formats and ten colors.
All bricks in this range are produced without chamfer.

Faro
200 x 200 x 71 mm

Faro
240 x 71 x 118 mm

Faro
240 x 118 x 71 mm

Porto
200 x 200 x 71 mm

Porto
240 x 118 x 71 mm

Porto
240 x 71 x 118 mm

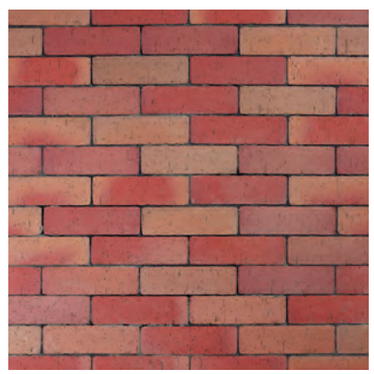
Florenz
200 x 200 x 71 mm

Florenz
240 x 118 x 71 mm

Florenz
240 x 71 x 118 mm

Toskana
200 x 200 x 71 mm

Toskana
240 x 118 x 71 mm



Toskana
240 x 71 x 118 mm

Malaga
200 x 200 x 71 mm

Malaga
240 x 71 x 118 mm

Malaga
240 x 118 x 71 mm

Granat
200 x 200 x 71 mm

Granat
240 x 71 x 118 mm

Granat
240 x 118 x 71 mm

Mahagoni
200 x 200 x 71 mm

Mahagoni
240 x 71 x 118 mm

Mahagoni
240 x 118 x 71 mm

Kosmos
200 x 200 x 71 mm

Kosmos
240 x 71 x 118 mm

Kosmos
240 x 118 x 71 mm

Franto
200 x 200 x 71 mm

Franto
240 x 71 x 118 mm

Franto
240 x 118 x 71 mm

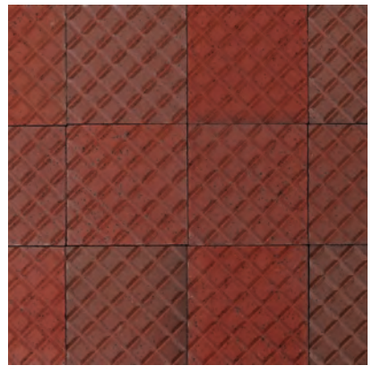
In addition, in our stock paving range you will find pavement slabs in studded or grooved variants as well as lawn bricks with two different hole patterns. These two types are produced without laying aids.

Nazare
200 x 200 x 71 mm

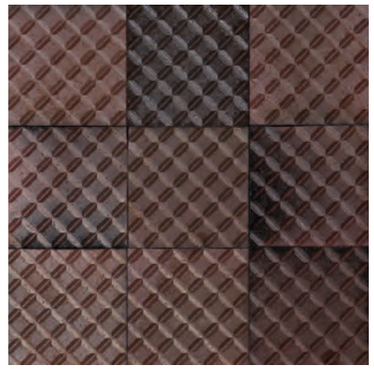
Nazare
240 x 71 x 118 mm

Nazare
240 x 118 x 71 mm

Paving slabs studded, red-brown
210 x 210 x 43 mm



Paving slabs studded, red-brown col.
210 x 210 x 43 mm



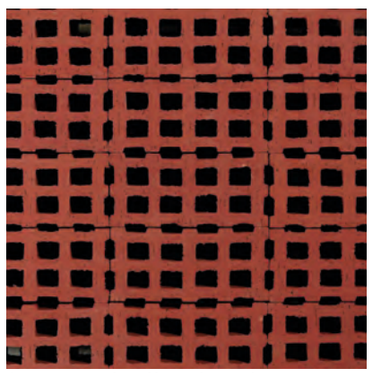
Paving slabs studded, blue col.
210 x 210 x 43 mm

Paving slabs grooved, red-brown
210 x 210 x 43 mm

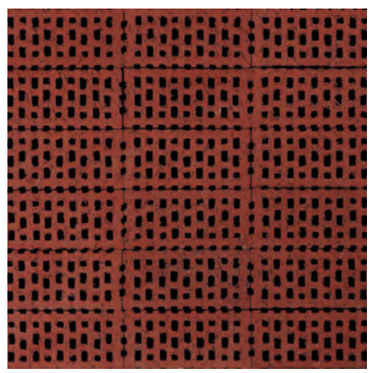
Paving slabs grooved, red-brown col.
210 x 210 x 43 mm

Paving slabs grooved, blue col.
210 x 210 x 43 mm

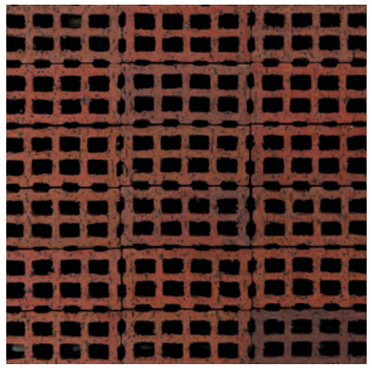
Here you can see color samples; all products must be laid with appropriate joints. Our experts will help you in the planning process.



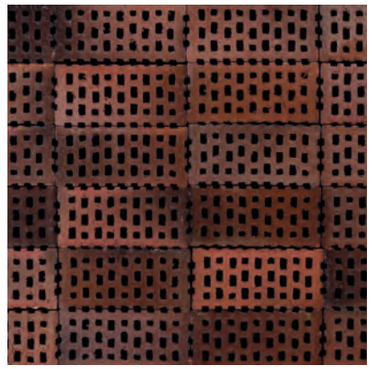
Square perforation, Granat
240 x 115 x 71 mm



Slotted perforation, Granat
240 x 115 x 71 mm



Square perforation, Kosmos
240 x 115 x 71 mm

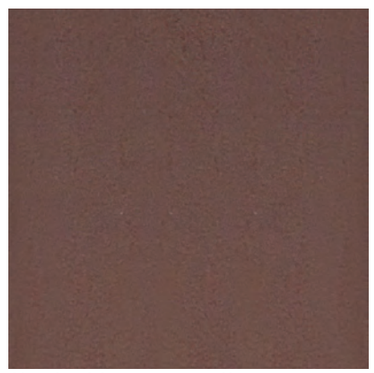


Slotted perforation, Kosmos
240 x 115 x 71 mm

Here you can see the four standard CERPIANO+ colors in the smooth and grooved variants. Depending on the object, individual colors are possible.

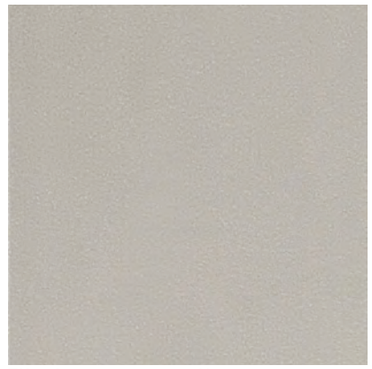
Carmine red, smooth
742/1492 x 325 x 40 mm

Carmine red, grooved
742/1492 x 325 x 40 mm



Chestnut brown, smooth
742/1492 x 325 x 40 mm

Chestnut brown, grooved
742/1492 x 325 x 40 mm



Titanium gray, smooth
742/1492 x 325 x 40 mm

Titanium gray, grooved
742/1492 x 325 x 40 mm

Volcano gray, smooth
742/1492 x 325 x 40 mm

Volcano gray, grooved
742/1492 x 325 x 40 mm

Here you can see a small selection of previously produced paving bricks. Do you have an idea for your desired color? Then contact us at www.gima-ziegel.de and we will develop a product together based on your ideas.

Passo FKS
490 x 52 x 115 mm

Alaska
200 x 200 x 71 mm

Schiefer
240 x 118 x 71 mm

Sand colored
200 x 200 x 71 mm

Siena
240 x 118 x 71 mm

Palisander
200 x 200 x 52 mm

Kupfer
200 x 200 x 71 mm

Granat S-Form
200 x 125 x 71 mm

Granat TT-Form
240 x 115 x 71 mm

Small stone, various colors
60 x 60 x 52/71 mm

Kastanie
240 x 118 x 71 mm

Kosmos Fish-Form
210 x 170 x 71 mm

Umbra
490 x 71 x 115 mm

Brasil
240 x 118 x 71 mm

Lanzarote
240 x 118 x 71 mm

Granat FKS
490 x 52 x 115 mm

Graphit
390 x 52 x 115 mm

Graphit
200 x 200 x 71 mm

A HANDMADE BRICK BEING CREATED

We are one of the few brickworks to offer handmade bricks and floor slabs. Here you can see a selection of classic colors for handmade pavers.

Ettal
290 x 65 x 140 mm

Neustift sanded
240 x 70 x 115 mm

Waldram
240 x 50 x 115 mm

Neumarkt
240 x 70 x 115 mm

Trausnitz sanded
240 x 50 x 115 mm

Waldram FKS
240 x 70 x 115 mm

Oberhaus
290 x 65 x 140 mm

Metten
290 x 65 x 140 mm

Neuburg
290 x 65 x 140 mm

Handmade brick production | Photos: Ariel Spallek

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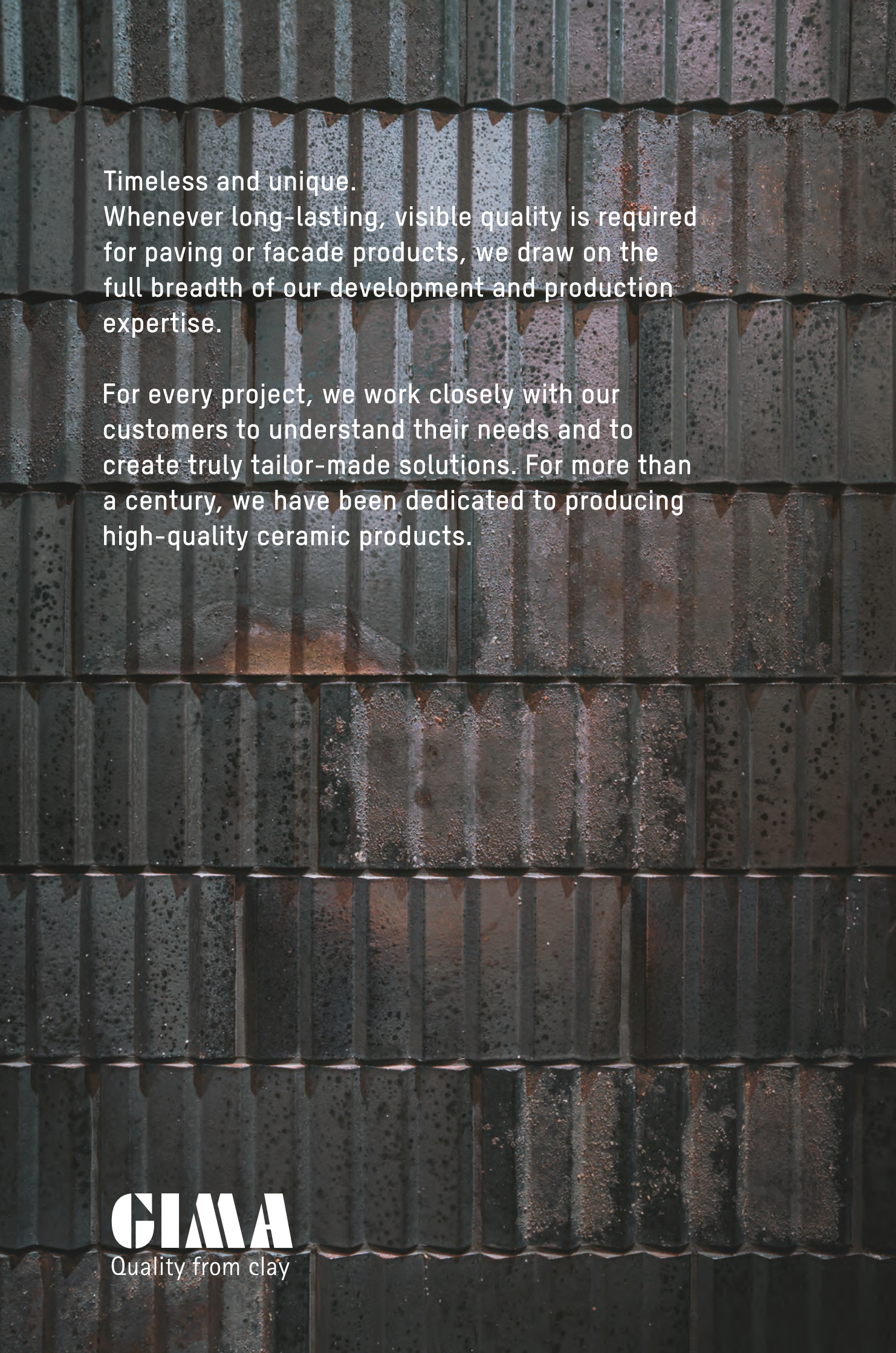
Our thanks go out to all the architects of the projects shown to which we were able to make a contribution, and of course also to the photographers who staged them so wonderfully.



Timeless and unique.
Whenever long-lasting, visible quality is required for paving or facade products, we draw on the full breadth of our development and production expertise.

For every project, we work closely with our customers to understand their needs and to create truly tailor-made solutions. For more than a century, we have been dedicated to producing high-quality ceramic products.

GIMA
Quality from clay