

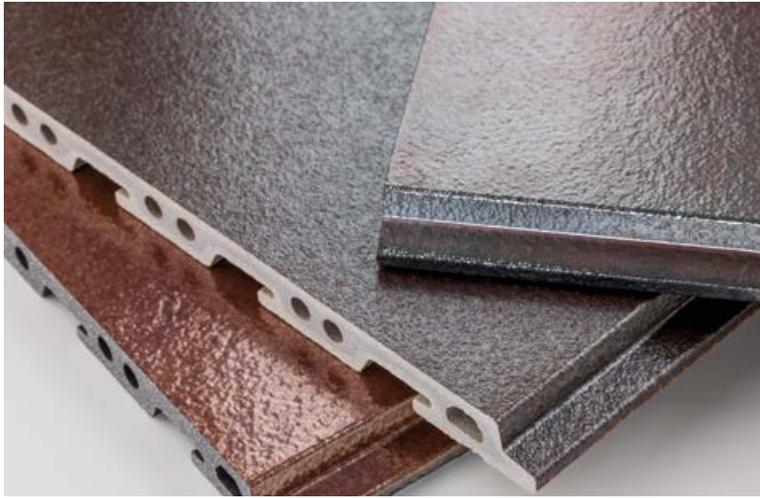


Ceramic facade
systems

New products

2017

NEW PRODUCTS



Surface finishes

New technical surface design processes make the KeraTwin® system even more versatile: stone and wood looks as well as the new metallic surfaces realised through digital printing make for even more freedom of design while retaining all of the advantages of ceramic as a material.

Pages 4 - 7



Cross-sections

Two new three-dimensional profiles make the range of KeraTwin® cross-sections even more versatile: "New Wave" and the "Groove panel positive" extend the standard range of cross-sections. But individual profiles can still be produced on request.

Pages 8 - 11



Substructures

OmegaS and OmegaV extend the KeraTwin® K20 fastening variants to include two new options: installation in any bond and vertical laying, even of large formats up to 180 cm in length, retaining all the advantages of swift and economical KeraTwin® installation.

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AGROB BUCHTAL: 50 years of experience in the production of ceramic facade systems

Advantages for designers

One of the strengths of ceramic facade systems offered by AGROB BUCHTAL is represented by its extensive scope of design: the wide range of glaze colours is further extended by the possibilities of digital printing. And the selection of various surface finishes opens up additional perspectives for individual design. Furthermore, special project-specific solutions are also possible on the basis of tried-and-tested systems. The panel surfaces are particularly easy to clean which means even graffiti can be removed swiftly and in full while competent support during Building Information Modelling (BIM) guarantees that all of the possibilities of process optimisation are exploited in full while realising a given project.



- + Extensive scope of design
- + Special individual solutions
- + Anti-graffiti
- + Support during BIM projects

Advantages for planners

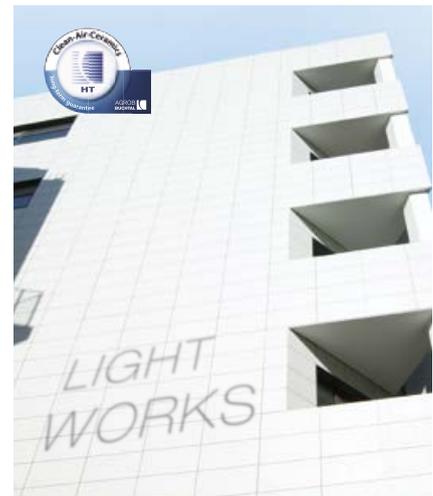
Technical advantages and services have a positive impact on planning and realisation. The In-House Planning Department at AGROB BUCHTAL not only supports professional planners with routine tasks but also offers on-site technical consulting on request. The actual products are convincing thanks to standardised panel thicknesses for all panel sizes and fastening systems while well-designed system components ensure easy and swift panel installation. The relatively low surface weight offers advantages in terms of statics, transport and handling, and all systems are tested and certified.



- + In-house Planning Department for professionals
- + Tested and certified
- + Efficient panel installation
- + Low surface weight

Advantages for the environment

As a weatherproof, extremely durable and high-quality material, ceramic offers the very best prerequisites for sustainable, environmentally-friendly building. Ceramic facade systems offered by AGROB BUCHTAL are also distinguished by their innovative HT surface finish which minimises cleaning, prevents the formation of algae and filters contaminants out of the air. The panels are tested for bio-construction; they contain neither organic nor inorganic fibres, are made of 100 % ceramic and are entirely made in Germany. This also helps to avoid delays when issuing building certificates for sustainable building.



- + Extremely durable material
- + Innovative HT finish
- + Tested for bio-construction
- + Swift environmental certification



SURFACE FINISHES

The KeraTwin® system offers additional options in terms of surface finish. In addition to the glossy, silky-matt or unglazed surfaces, panels are now also available which benefit from the new technical possibilities offered by digital printing in order to create even more natural and lively facade areas or to achieve highlights.

For example, stone or wood looks can be realised which intimate great depth while this method sees the advantages of ceramic as a material being retained in full. The same also applies for the new metallic surface finishes which open up incredible design options for ceramic facades.

Quarzit

Fine granulate, which is sprayed on with the glaze and permanently fired, lends Quarzit a look and feel of natural stone.



basalt-grey



white-grey



sand-beige

Savona

Soft layers and coarse grains reminiscent of limestone and granite along the Italian coastline are typical of Savona.



lime



grey



beige



anthracite



brown

Oak

High-quality digital printing lends Oak its characteristic grain and the natural aura of treated or untreated oak wood.



cream oak



natural oak



anthracite oak

Metallic glazes

With their unique look, the new metallic glazes offer a multitude of options for designing entire facades or creating individual highlights. Special glazes are burned in under special firing conditions during the manufacturing process. Accordingly, each panel is unique and displays an unmistakable look whose shimmering play on colours varies depending on how the light falls and the angle at which it is observed. Unlike other metallic surfaces, these glazes remain impervious to environmental influences and chemicals.



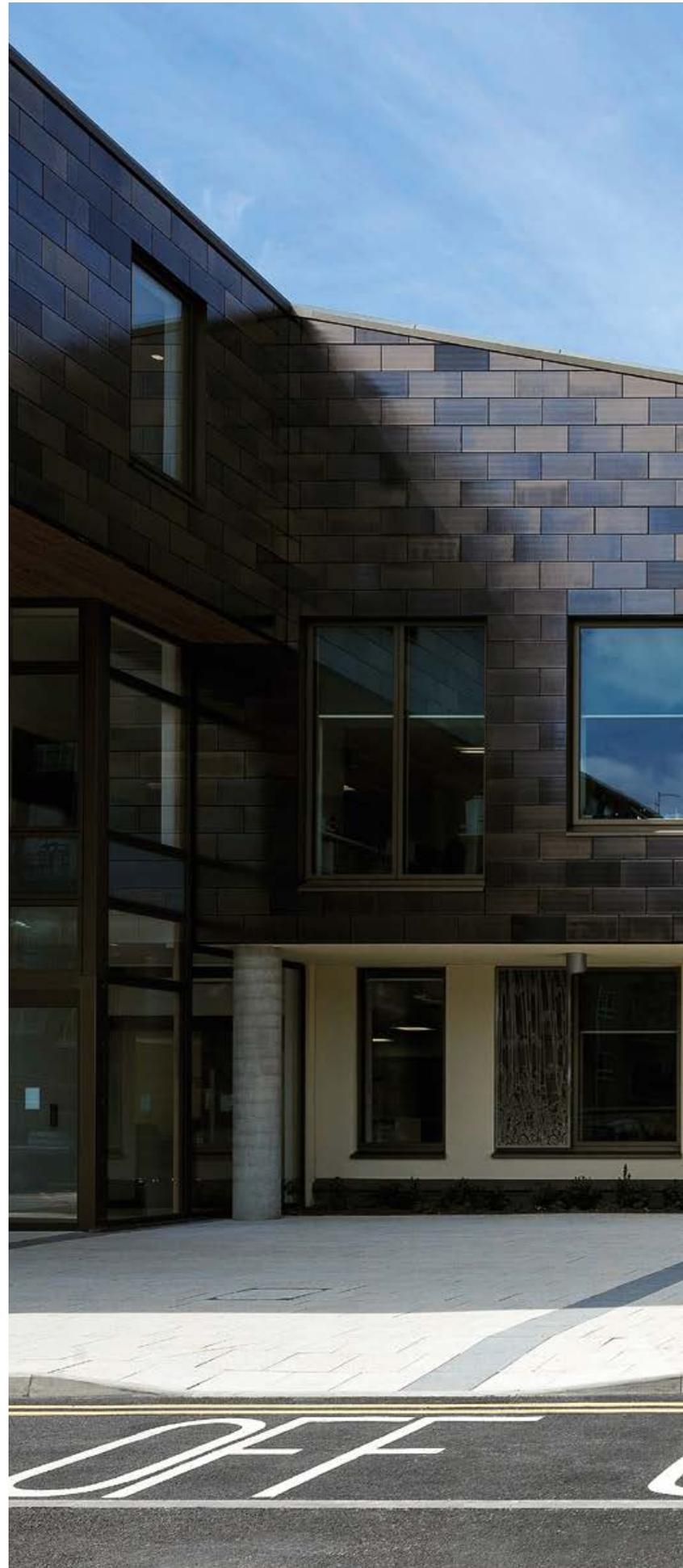
Metallic 1



Metallic 2



Metallic 3





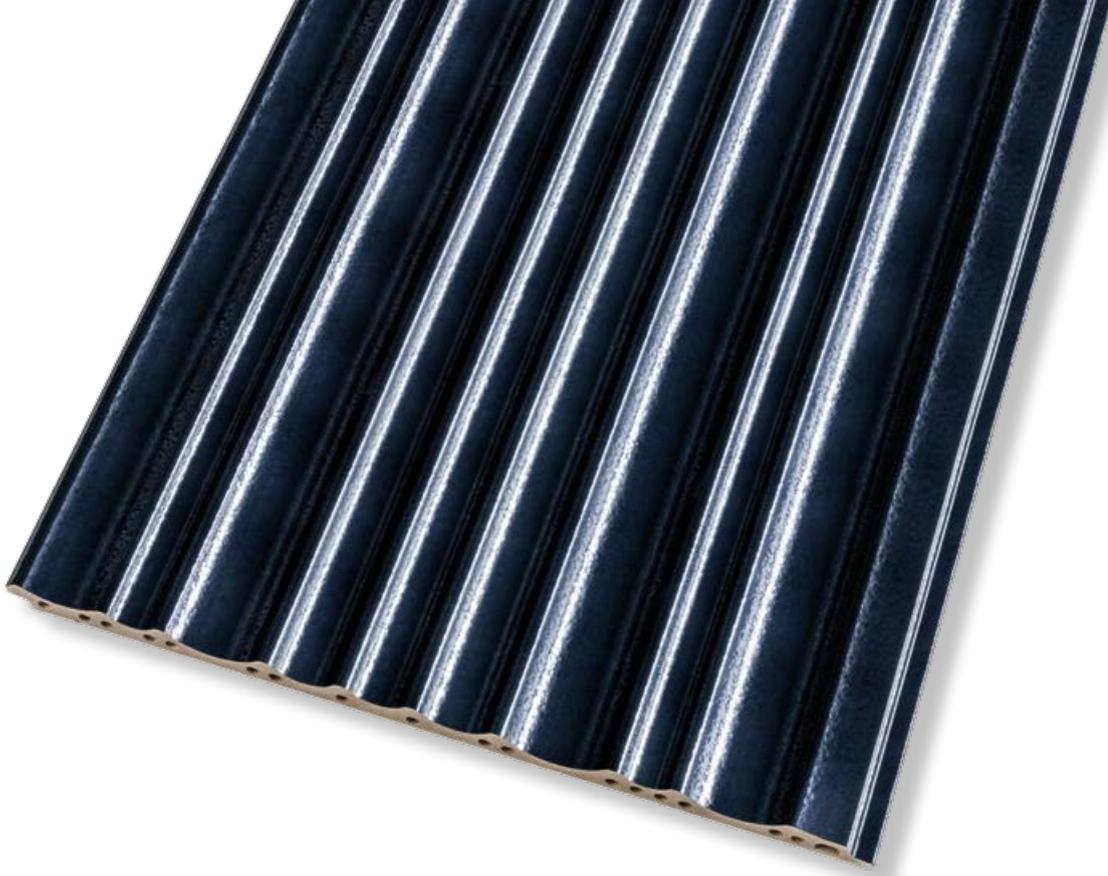
Project: Queen Elizabeth Hospital London, Great Britain / Architect: Penoyre & Prasad LLP / Photo: Tim Crocker

CROSS-SECTIONS



Laid consistently or in a rhythmic alternation, surfaces with sculptural textures can make expansive facades appear less monotonous and even lend an entire building a distinctive character.

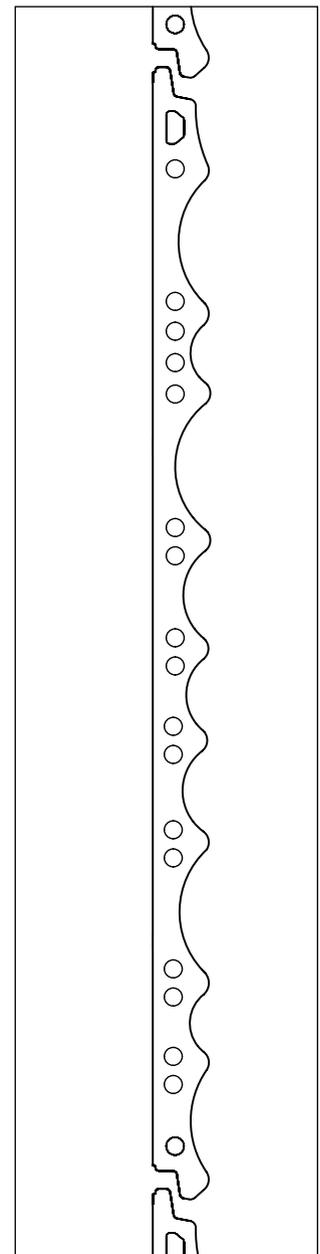
Two new products are now available to supplement the tried-and-tested “charred”, “sine wave”, “grooved panel”, “undulated structure” and “stripy pattern”: the three-dimensional “New Wave” and “Groove panel positive” profiles open up additional scope of design for individual facades. But special designs for specific projects are still available even after this range has been extended.



New Wave

With its distinctive profiles, “New Wave” is suitable for particularly striking facade design, whereby various glazed, matt, glossy and unglazed models are available, visually highlighting the characteristics

of a particular building’s architecture. Owing to its distinctive profiles, “New Wave” does not avail of holding grooves on the reverse side which means it can only be mounted using clamps.

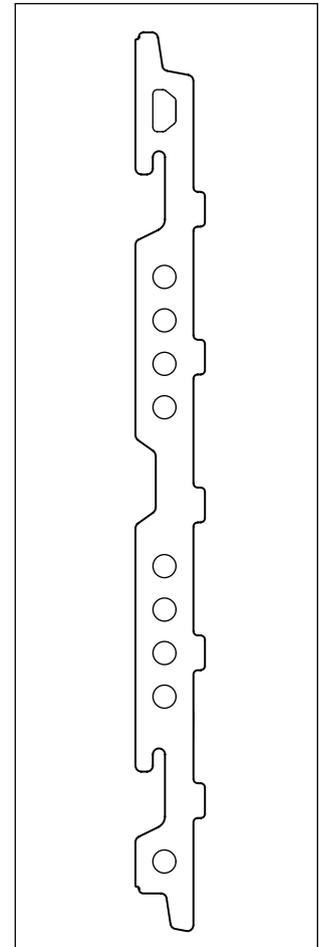


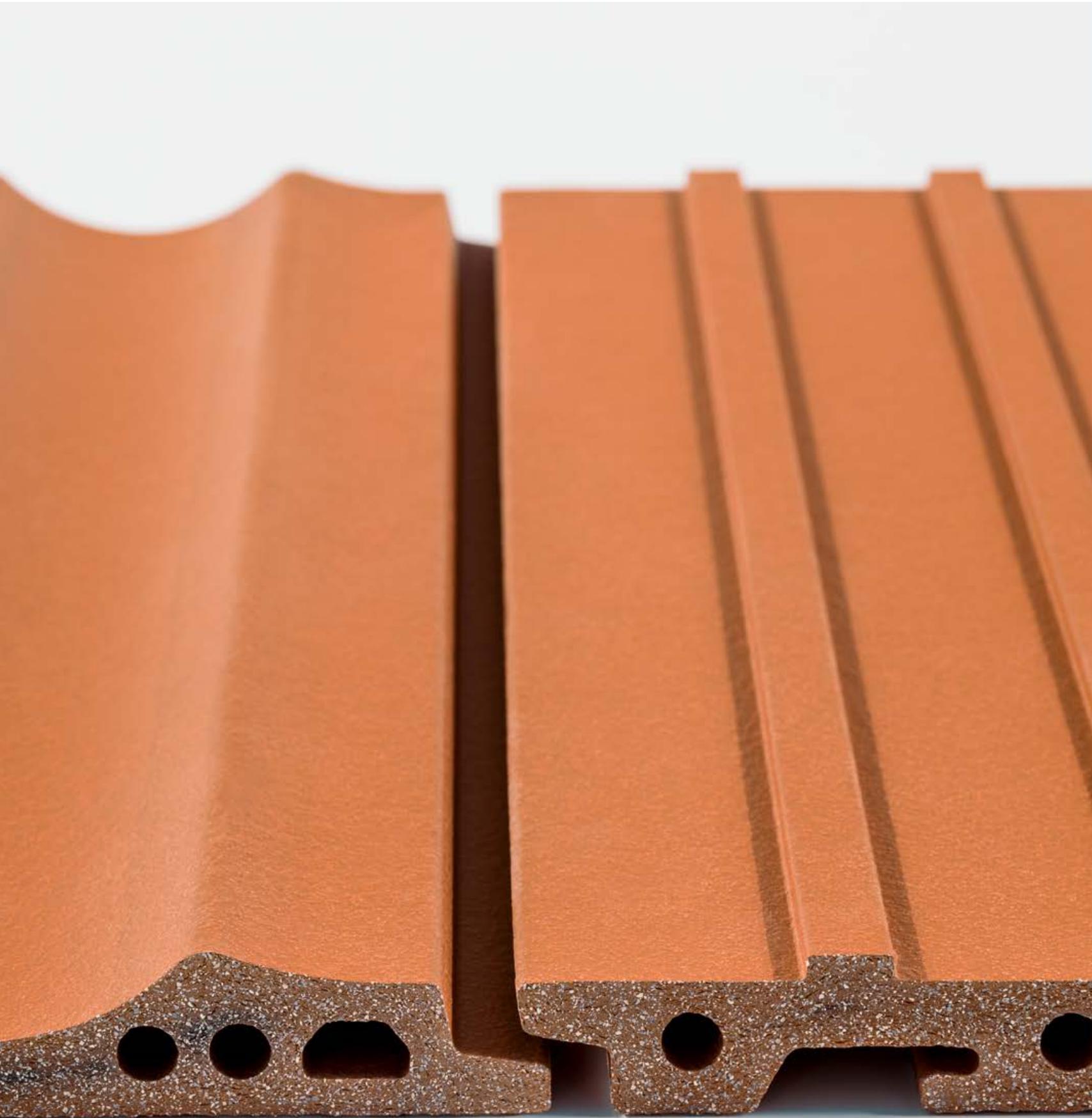


Groove panel positive

A characteristic feature of this new product is represented by the elegant webs which lend the facade a sculptural texture. Combined with the classic groove panel, the new “Groove panel positive” permits even more special optical effects: for example, the impression of a deviating facade grid can be

achieved which is applied across the actual panel joint grid. The spaces between the panels or webs can be adapted as required for each specific project, thereby attributing the designer with a particularly high degree of design freedom in terms of the rhythm of a facade.





SUBSTRUCTURES

AGROB BUCHTAL uses two innovative substructures to create additional options for laying KeraTwin® K20 facade panels. K20 OmegaV permits panel installation in various bonds, thereby opening up new possibilities of rhythmic design.

K20 OmegaS offers the prerequisites for vertical panel installation. The special construction not only carries off wind loads but also the dead weight of the panels up to a panel length of 180 cm. Both systems offer all of the advantages of the K20 system.

Project: Student accommodation Emmanuel College, Cambridge, Great Britain / Architect: Bidwells, Cambridge / Photo: David Salmon

K20 OmegaV for laying in bonds

System description

The OmegaV profile was developed to enable installation of KeraTwin® K20 panels in various bonds while availing of all of the advantages offered by the K20 system. The horizontal bearing profiles are fastened to a basic construction at the desired height grid. Then the OmegaV profiles can be hung from the horizontal bearing profiles and with the requisite spacing (length grid) before being secured to the two top suspension brackets using A4 stainless steel screws. The KeraTwin® K20 facade

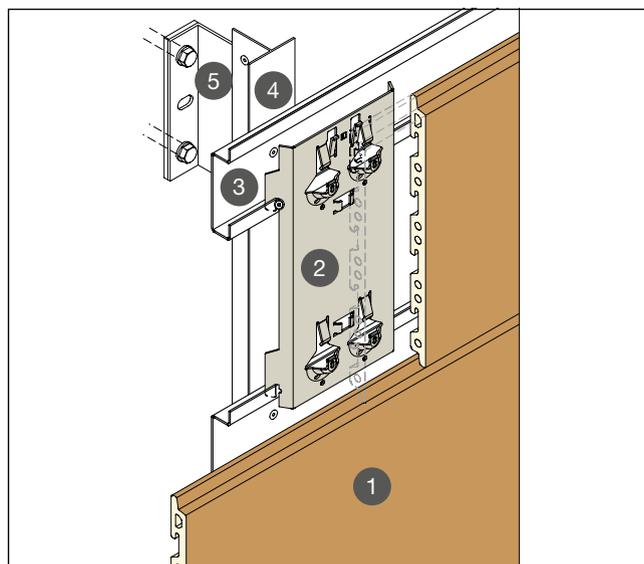
panels are simply hung in the pre-assembled OmegaV profiles using the holding grooves on the reverse side. No additional tools are required for mounting the panels. The compression spring integrated in the OmegaV profile prevents clattering and constraining forces in the case of alternating wind loads as well as the easy removal of panels. The position of the panels is secured either by means of a joint profile adjusted to the joint width or using spacers.

Preferred application

- + On studded wall partitions
- + For mounting sandwich panels (can be used independent of panel manufacturer)
- + On solid subsurfaces such as concrete or masonry
- + With brackets or framework for anchoring in the substructure
- + For wall structures with low configurations
- + For thick insulation layers

Essential system advantages

- + KeraTwin® panels can be laid in any bond (any panel length or height) using K20 OmegaV on a horizontal mounting rail
- + Fast and easy panel installation using well-designed system components
- + Efficient assembly on difficult wall constructions such as beam construction
- + Low panel weight of 32 kg/m² facilitates transport and handling as well as possibility of use on buildings with demanding statics
- + Extensive range of accessories for various details such as corner solutions etc.
- + Possibility of joint profile
- + Great scope of design thanks to wide range of formats in standardised panel thicknesses



- 1 KeraTwin® K20 facade panel
- 2 OmegaV profile
- 3 Horizontal supporting profile
- 4 Vertical bearing profile (basic substructure)
- 5 Wall bracket (basic substructure)

K20 OmegaS profile + supporting profile

System description

OmegaS profiles and a supporting profile permit vertical installation of the KeraTwin® facade panels. Secured to the vertical supporting structure, the OmegaS profiles arranged horizontally carry off wind loads and the dead weight of the panels is carried off by the supporting profile mounted in the height grid. The KeraTwin® K20 facade panels are simply hung horizontally in the OmegaS profiles

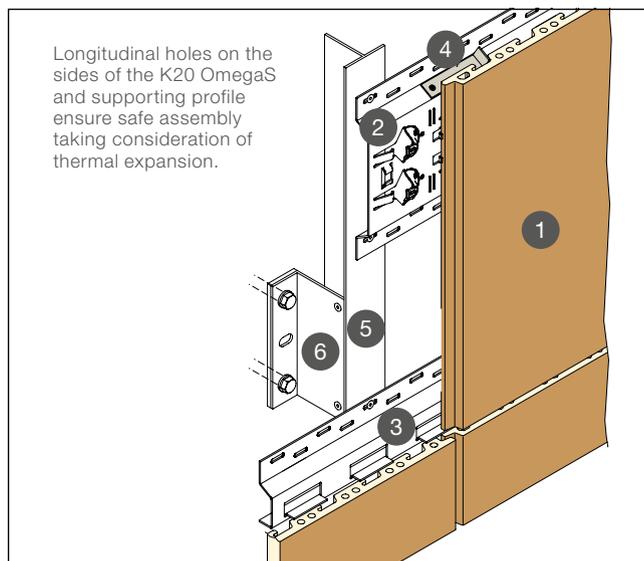
using the holding grooves on the reverse side. No additional tools are required for mounting the panels. The compression spring integrated in the OmegaS profile prevents clattering and constraining forces in the case of alternating wind loads. Each KeraTwin® panel is secured using two securing angles to prevent it from slipping out. The horizontal joints can be open or closed with joint profiles.

Preferred application

- + On studded wall partitions
- + Sandwich panels (system can be used independent of panel manufacturer)
- + On solid subsurfaces such as concrete, masonry
- + With brackets or framework for anchoring in the substructure
- + For wall structures with low configurations
- + For thick insulation layers
- + KeraTwin® panels to max. format (180 x 60 cm)

Essential system advantages

- + Vertical installation up to max. panel format of 180 x 60 cm with supporting profile
- + Fast and easy panel installation using well-designed system components
- + Efficient assembly on difficult wall constructions such as beam construction
- + Low panel weight of 32 kg/m² facilitates transport and handling as well as possibility of use on buildings with demanding statics
- + Extensive range of accessories for various details
- + Possibility of joint profile
- + Great scope of design thanks to wide range of formats in standardised panel thicknesses



- 1 KeraTwin® K20 facade panel
- 2 Omega profile K20
- 3 Supporting profile OmegaS
- 4 Securing bracket
- 5 Vertical bearing profile (basic substructure)
- 6 Wall bracket (basic substructure)



Project: Höxter Markt facade, Germany / Architect: msp architekten GmbH / Photo: Mark Wohlrab

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01/2017



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