

WAN AWARD
(WORLD ARCHITECTURE NEWS)
PRODUCT INNOVATION
CATEGORY FACADES - WINNER
2014

PRODUCT:
PETERSEN COVER
- A NEW CLADDING PRODUCT
FOR WALLS AND ROOFS.

LAUNCH:
2013

BACKGROUND:
PETERSEN COVER IS A
FURTHER DEVELOPMENT OF
TWO PROTOTYPES FROM 2009

MANUFACTURER:
PETERSEN TEGL
NYBØLNORVEJ 14
DK-6310 BROAGER
DENMARK

PETERSEN SINCE 1791 [COVER]

- A new and different tile product, yet closely related to traditional bricks.
- Faster and less expensive to mount than traditional bricks.
- Facades are maintenance free and vandal proof.
- Can be taken down and re-used in contrast to traditional bricks.

History

IN BRIEF

Brick is without a doubt the man-made building material that has changed least over time. The first brick was produced in Mesopotamia, circa 3000 BC, by forming water and clay into shape and firing it. The first brick in Denmark was produced around 1160.

Ever since, bricks have been made from basically the same ingredients and in the same rectangular shapes. In other words, brick is not exactly epitomised by product development. This makes it all the more fascinating when brick assumes new forms – as Petersen Cover has done.

As it is often the case when a new product takes off in the construction industry, Petersen Cover is created in collaboration with architects, who came up with the idea in response to a challenge posed by a specific project.



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Architects Maarten and Jetty Min



Prototype I

DEVELOPED BY MIN2 ARCHITECTS
FOR A VILLA IN BERGEN AAN ZEE,
THE NETHERLANDS

In 2009, Jetty and Maarten Min built their own house in Bergen aan Zee in the Netherlands. Situated in sand dunes, 300 metres from the beach, and surrounded by dramatic and magnificent scenery, the building is rounded to suit the wind conditions, turning its back on the west, from whence the wind is strongest. An ideal way to deal with the rounded body of the building was to enclose it in a single material, the colour and texture of which were to be in harmony with the surrounding environment. It seemed appropriate that the building's outer skin should envelop the construction in a way that differed from traditional brickwork. This led to the idea of developing a new tile product.

Petersen Tegl embraced the architects' thinking, and together they developed a new version of an existing brick, Kolumba, also produced by Petersen. The architects produced a prototype that could be mounted upright, so the whole building could be ensconced in the same material. The new brick was 100 mm wider than standard Kolumba and had a recess on the inner side for attaching it to the underlying wooden structure.

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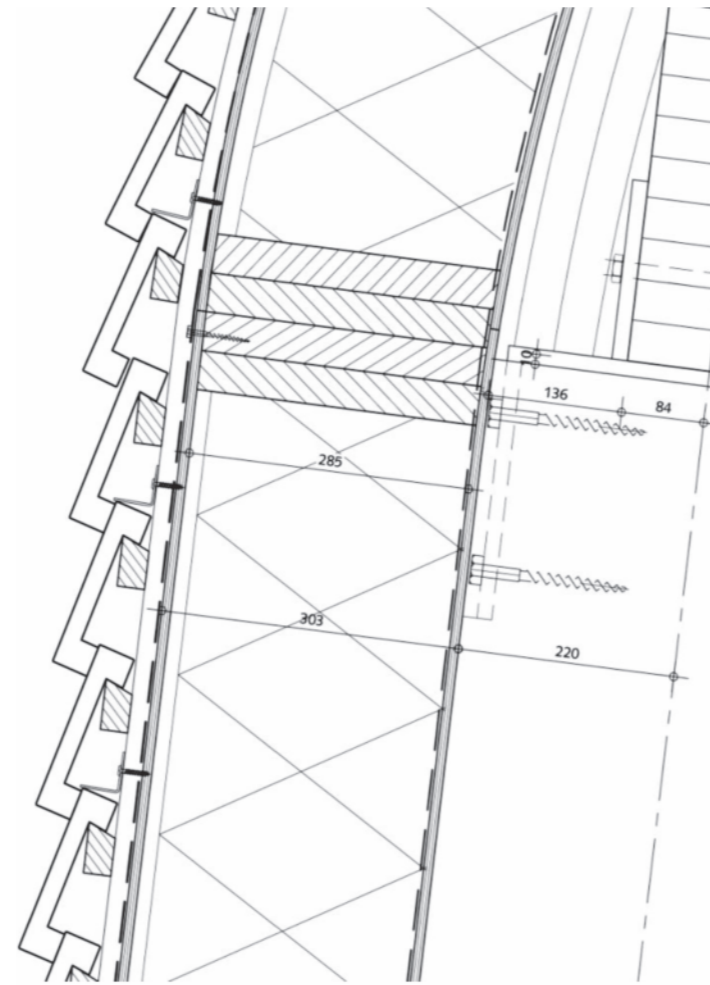
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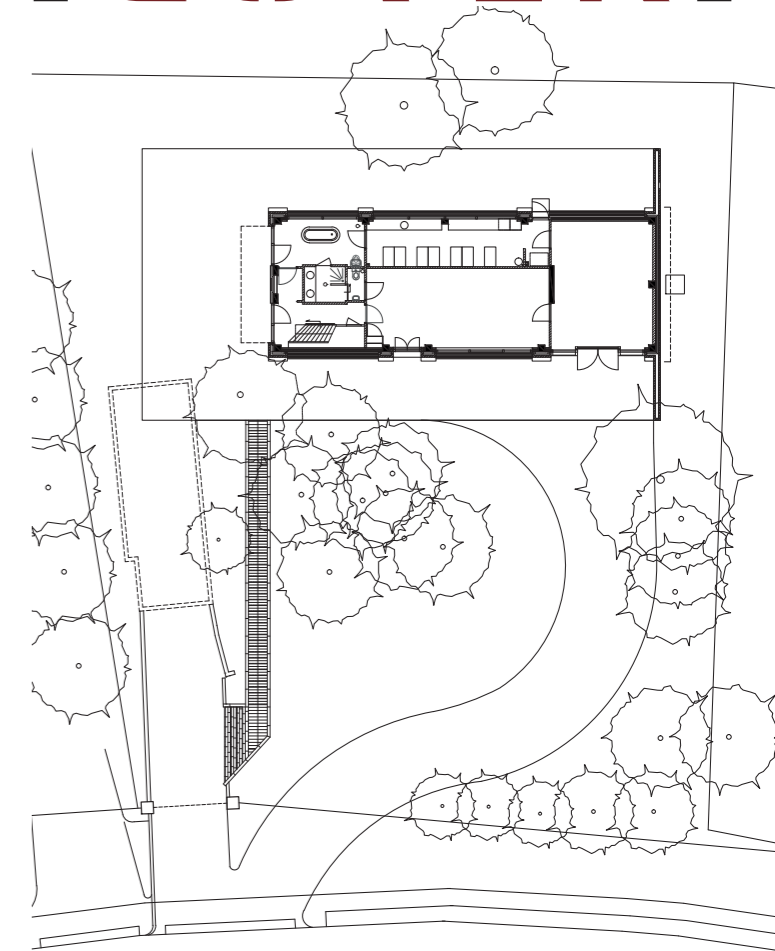
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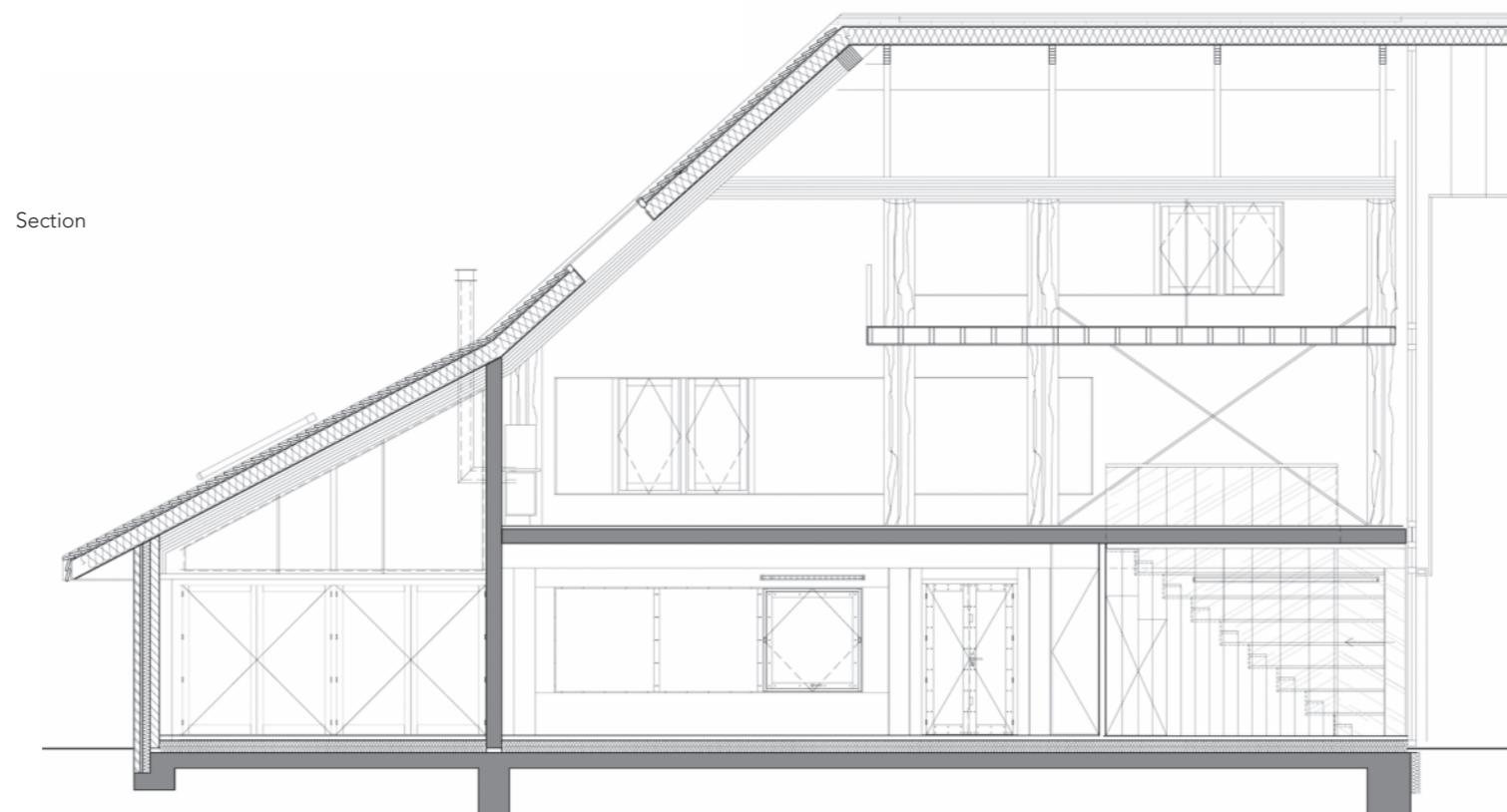
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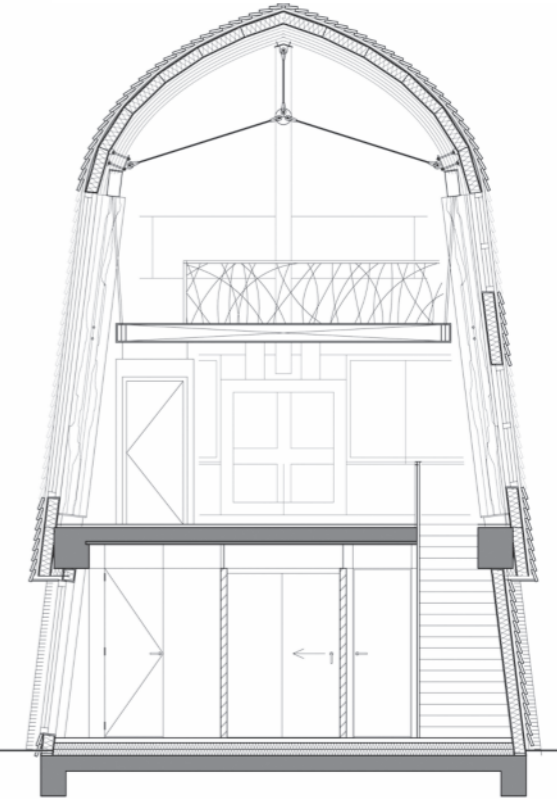
Principle for the mounting of tile prototype / Villa in Bergen aan Zee



Site plan



Section



Section

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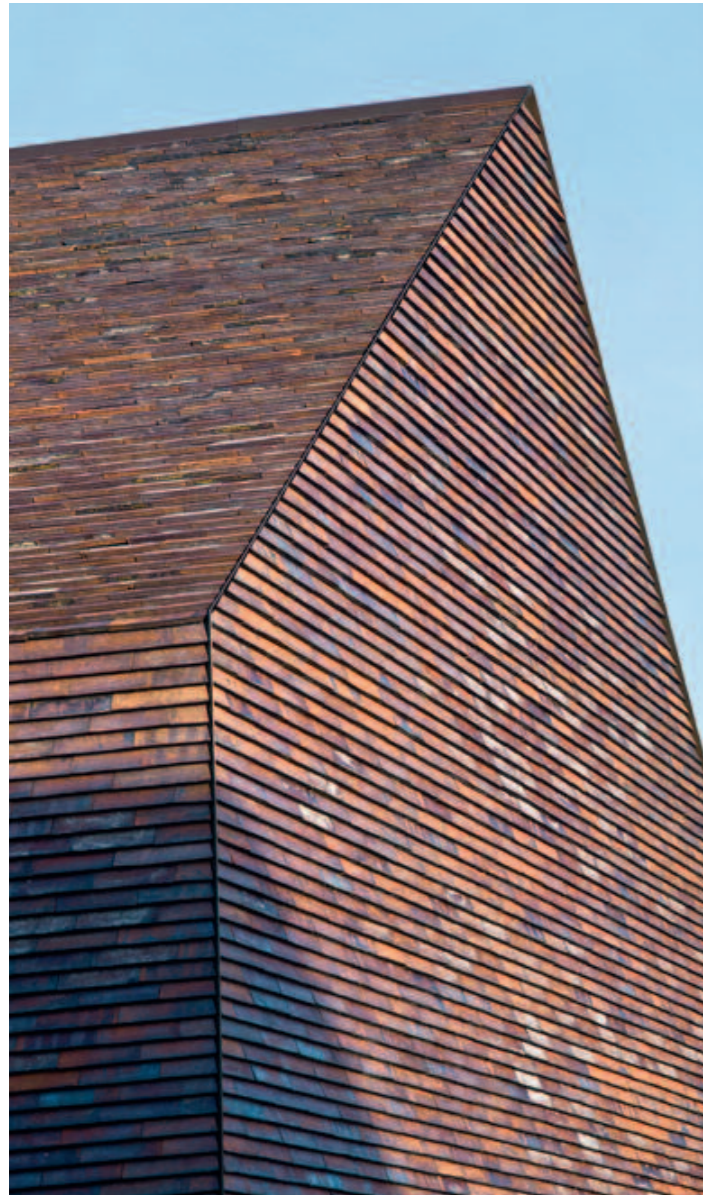
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Architects and partners Lene Tranberg and Henrik Smith



Prototype II

DEVELOPED BY
LUNDGAARD AND TRANBERG
FOR SORØ MUSEUM, DENMARK

The Danish architects Lundgaard & Tranberg have worked with the idea of using brick according to the shingle principle for years. They resurrected the theme in 2009, when they won the competition to design an addition to Sorø Art Museum in Denmark. The museum is in the middle of an old market town, surrounded by centuries-old brick houses with tiled roofs. The architects wanted the new museum buildings to re-interpret well-known forms and materials but with a modern twist. The solution was to refine the prototype developed by Min2 Architects. In terms of form, the new buildings are distinct and clear. Using the same material on both the roof and the façades enhances the building's shape – the cladding glides around the form and brings it together. The architects handled the joints with great precision, so as to contrast beautifully with – and assimilate the imprecisions in – the handmade bricks. Lundgaard & Tranberg also perfected the process of fixing cladding to the building, to ensure that it is vandal-proofed.

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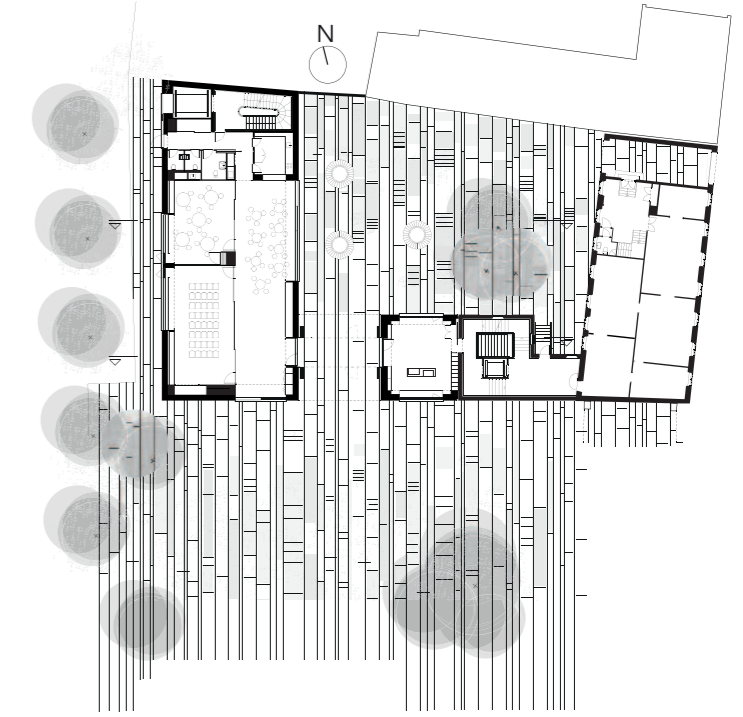
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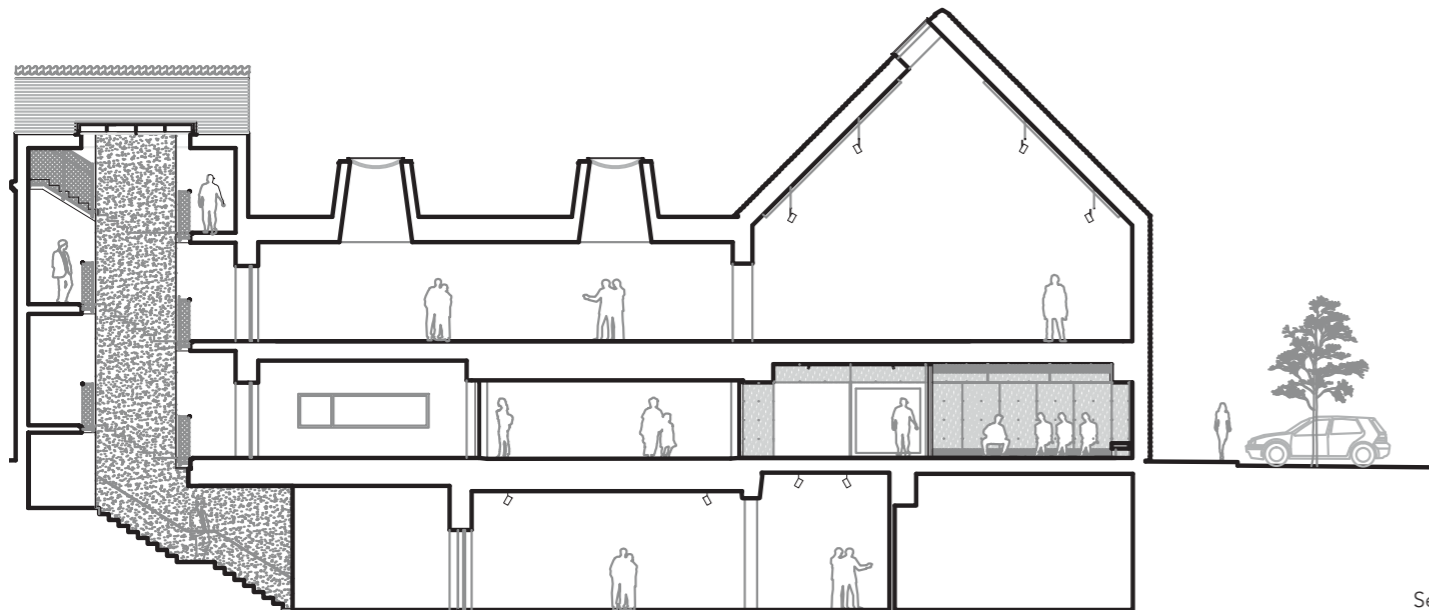
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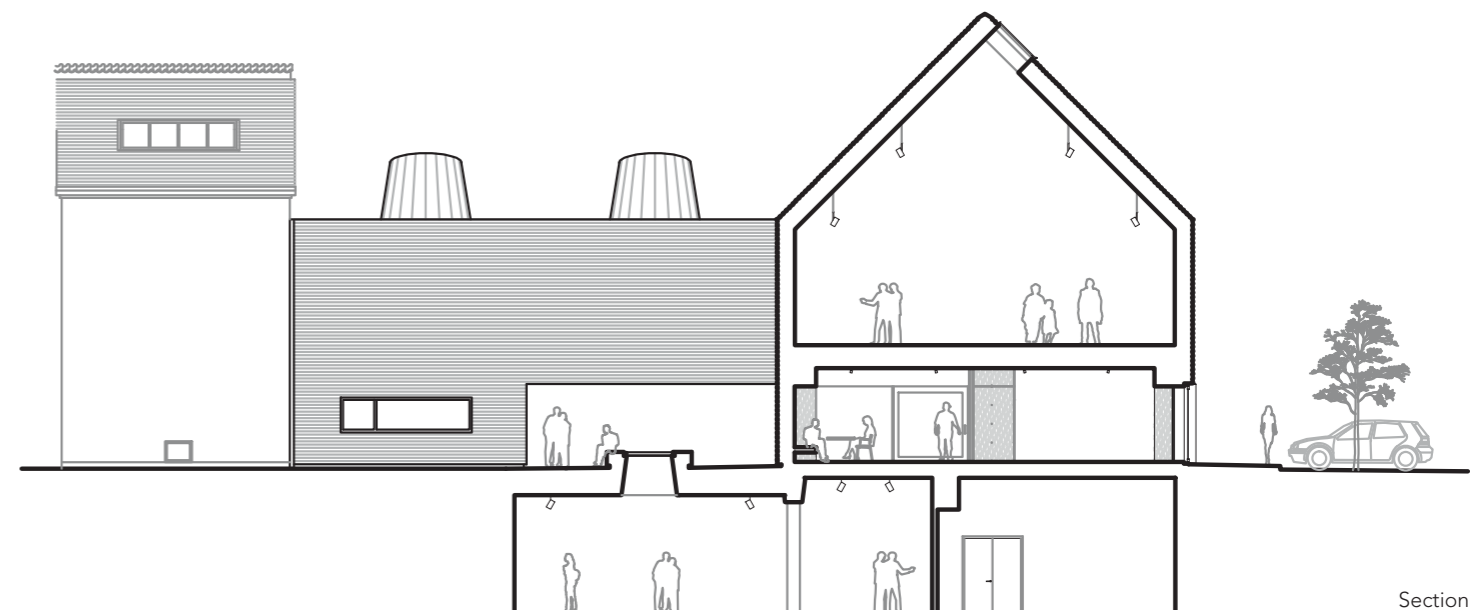
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Ground floor



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170 mm

Length, width, height: 528 x 170 x 37 mm.
Weight each: 4.5-5.5 kg.
Weight per m²: 75 kg.
Overlap: 40 mm.
Tiles per m²: approx. 14-15 pcs.
Laths per m²: 7.7 m.
28 screws: 4.5 x 70 mm A4.

240 mm

Length, width, height: 528 x 240 x 37 mm.
Weight each 6.6 x 7.0 kg.
Weight per m²: 63 kg.
Overlap: 40 mm.
Tiles per m²: approx. 9-10 pcs.
Laths per m²: 4.7 m.
18 screws: 4.5 x 70 mm A4.



The Product

FACTS

Petersen Cover bestows a distinctive and modern look whilst retaining all the familiar advantages of traditional brick. Due to the structure of the handmade tile, façades look beautiful, rustic and exclusive.

Petersen Cover is an original and different solution, yet is closely related to, and works well with, traditional bricks.

Petersen Cover comes in 14 different colours, but architects and builders can choose exactly the clay, structure and look they want for their projects.

Petersen Cover comes in two sizes: 528 x 170 x 37 mm, and a slightly larger version: 528 x 240 x 37 mm.

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Sustainability

RE-USABILITY

Petersen Cover is re-cyclable, which gives it sustainable qualities. With the right tool, it is easy to remove the bricks without breaking them, so they can be used over and over again.

Traditional brickwork requires no maintenance – except for the joints, which need to be checked after a certain number of years. Petersen Cover, however, has no joints, and is therefore 100% maintenance-free.

A façade constructed in this way has none of the expansion joints that sometimes disfigure a brick façade. Façades clad with Petersen Cover are water-resistant and absorb a minimum of moisture.

It is highly unlikely that Petersen Cover is to be scrapped, but the tiles can be crushed and re-used in many ways as for road services. As the product consists of clay, sand and water, there are no pollutants when the product is decomposed

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A lump of clay is poured into a wet mould.

The clay is pressed out and the excess material is wiped away.

Using water as a lubricant, the craftsman lifts the
mould and the shaped clay slips out onto a plate.



The Production

BASED ON TRADITIONS

Petersen Cover is 100% handmade in wooden moulds. It is composed of various combinations of English and German clay and fired at very high temperatures.

Petersen Cover is a new product but at the same time in line with the making of tile products as it has been done by the same family since 1791 and at the same brickworks.

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Fitting Petersen Cover is approximately 20% faster than traditional bricklaying with brick and mortar.



Mounting

ADVANTAGES

Petersen Cover is mounted in a manner reminiscent of traditional laying of pantiles. The tiles are attached with screws to a frame, which ensures precision both on the surface and at the corners of the building. Petersen Cover cannot be blown off or removed by hand, so the solution is vandal-proof.

The mounting of Petersen Cover involves a number of advantages compared to traditional bricklaying:

- There are no costs of mortar and mixing apparatus.
- The mounting can be done by means of work platforms instead of the heavy scaffolding used for traditional brick facades.
- The brick layers' work position is ergonomically correct when mounting Petersen Cover.
- The building can be erected as a closed weather protecting unit whereafter Petersen Cover can be mounted. The mounting is therefore independent of temperature and weather in contrast to traditional facade building, where the work must be stopped at temperatures below 5 centigrades.

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C4 - Non standard



C11



C21



C22



C23



C33



C36



C44



C48



C50



C54



C56



C71



C91



C96



The range

COVER X 14 + 1

Petersen Cover is produced in 14 different standard colours using various combinations of clay.

Petersen Cover comes in two sizes:

528 x 170 x 37 mm.

528 x 240 x 37 mm.