



ROOF RENOVATION WITH RHEINZINK-GRANUM BASALTE

ELEGANT IN FORM AND COLOUR



PROJECTREPORT



NEW METAL ROOF FOR THE HOLIDAY HOME

For the metal roof of a holiday home, the roofer used the new surface quality RHEINZINK GRANUM basalt for the first time. The carefully adapted roof layout and the precise roof division emphasise the elegant appearance of the matt and deep dark material.

The holiday home of the Keuler family of roofers and plumbers was built in the early 1970s in the bungalow style with a roof covering typical of the time with corrugated panels. Minor storm damage, defective gutters and initial leaks now required renewal. Besides, a roofer's house should look decent at all times, as Stefan Keuler emphasises. Of course, this also applies when, as in this case, there are about 450km between the holiday home and the company headquarters in Niederrissen, Rhineland-Palatinate. It was there in 1961 that Stefan Keuler's grandfather founded the company that today operates as Lehmann GmbH, a master roofing and plumbing company. It was precisely because of this dual range of services and the low pitch of the roof that it made sense to re-roof the holiday home as a metal roof.

NEW MATT-DARK TITANIUM ZINC SURFACE

In the interview opposite, Stefan Keuler describes how the decision for RHEINZINK prePATINA blue-grey had actually already been made. Then the titanium zinc specialist introduced GRANUM basalt, a new surface quality on the market, which the family wanted to try out for the first time as roofing for the holiday home.

RHEINZINK GRANUM is a phosphated surface which, as GRANUM basalt, meets the requirements for a very dark and matt look in modern architecture. The material is significantly darker than the tried-and-tested prePATINA graphite-grey and its almost black elegance makes

it look very aesthetic and smart. Particularly in combination with building materials such as wood, natural stone, plaster or glass, exciting and clear contrasts are created, which provide individual possibilities for urban design beyond the mainstream.

The special look of GRANUM is achieved by phosphating the surface on the basis of the very latest, and most environmentally friendly, production technology. The phosphate coating is durable and weather-resistant and reveals the typical grain of the natural patina after laying. In addition to panel and strip material, there is already a range of half-round roof drainage products that were also used in the project described here. Additional box-shaped roof drainage products are planned for 2022. In terms of processing, RHEINZINK GRANUM does not differ from the manufacturer's well-known surface qualities. The material can be bent and folded as usual, as well as soldered excellently.

The new soldering fluid PowerSurface, developed by RHEINZINK in cooperation with Felder GmbH, is particularly suitable. It is specially adapted to the CLASSIC, prePATINA and GRANUM zinc surfaces. PowerSurface is not only an excellent combination of solvent and solder flux, but also substantially reduces solder vapour. The flux spreads in a controlled manner, and a visible reaction on the surface indicates the precise time to start the soldering process. The coating does not have to be removed abrasively as an additional work step.

ADAPTED ROOF LAYER

The elegance and clarity of the new GRANUM surface found its counterpart on the roof of the holiday home in the precision of the new roof layout. The measurement

had shown that the old roof did not form a regular rectangle. Instead, the verges were tapered and the corrugated panels were laid at a slight angle. Therefore, the old roof was rebuilt down to the formwork and first of all an exactly rectangular base was created with new 60mm thick wood fibre insulation boards. During an internal modernisation a few years ago, a suspended ceiling with insulation and vapour barrier had already been installed from below, so that the current wood fibre insulation did not have to ensure winter energy efficiency, but was primarily intended to prevent overheating in summer.

The carefully adapted roof layout and the precise roof division emphasises the elegant appearance of the matt and deep dark material.

On this now exactly rectangular base, a titanium-zinc roof was created with a ventilation space level underneath the full-surface timber boarding and 430-pitch panels up to 9.50m long. The roof overhangs and roof widths were chosen in such a way that a completely uniform laying pattern was possible, which did not require any cut-to-size panels even at the projections in the ground plan.

ATTENTION TO DETAIL

However, the high demand for clarity and precision of the new construction is not only evident on the smooth surfaces of the roof. The Keulers also worked on the details

with a great deal of craftsmanship. For example, the new titanium-zinc cladding of the chimney is dimensioned so that it fits exactly into the seam grid of the roof without any fitting pieces. While the respective corner pieces of the rising cladding are cut straight, the middle pieces are tapered so that the chimney is tapered towards the top. The attention to detail is also evidenced by the GRANUM verge cladding, which is reminiscent of the form of the earlier timber cladding, but emphasises an exciting colour contrast between the white render and the deep dark titanium zinc. The new roof design with its now regular geometry even allowed the verge trim to be pre-fabricated in Niedertzissen and installed on site without further adjustment.

The procedure was similar for the cladding above the side entrance door, where the former wooden cladding was also replaced by titanium zinc. On the other hand, the lighting in the roof overhang is completely new – and planned as a surprise for the family. It additionally emphasises the clear separation between the dark roof and the white plaster façade in the dark. With this excitingly staged contrast as well as the carefully planned and executed details, the new metal roof on the holiday home of the Keuler family now displays a clear and modern design language that gives the almost 50-year-old bungalow a contemporary fresh look.





**Before/ After:
Elegance and clarity
characterize the new
appearance of the holi-
day home**

CONSTRUCTION PANEL

Client

Lehmann GmbH
Niederzissen
Germany

Contractor

Lehmann GmbH
Niederzissen
Germany

Technical Specifications

Roof: Double Standing Seam
RHEINZINK-GRANUM basalte
Roof Drainage:
RHEINZINK-GRANUM basalte

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