

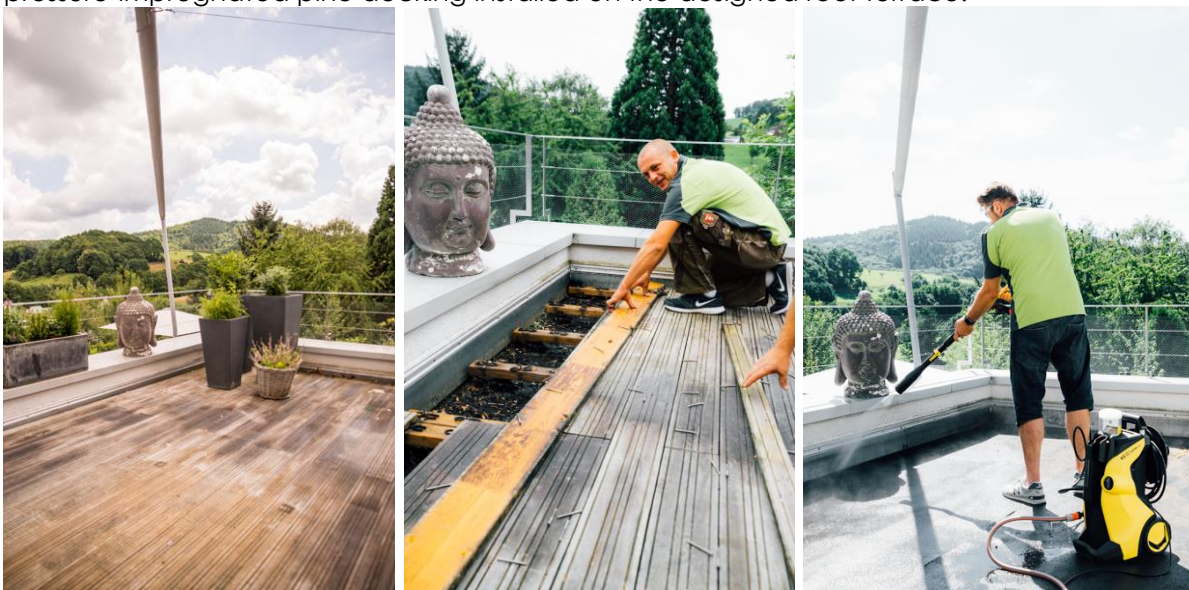
PRESS RELEASE

Tiling section – April 2018

Renovation of a roof terrace with a system

A few years ago, stilted wooden decking was enjoying a boom. However, the majority of the surfaces have since lost their visual appeal and are being increasingly renovated with ceramic floorings. How this can be best carried out technically is demonstrated by the following example using the PROSTILT pedestal support from PROLINE.

Weinheim an der Bergstraße what is known as the Rhine-Neckar metropolitan region is a popular place to live. Mannheim, Heidelberg, and Darmstadt can be reached quickly – in fact, even Frankfurt am Main is only 45 minutes away. The districts which are situated in the lower Odenwald are particularly charming, offering a magnificent view of the mountain and valley landscapes. Client Jens O. Holthaus built his home there with his family in 2011 and had pressure-impregnated pine decking installed on the designed roof terrace.



Caption: The unsightly wooden terrace is dismantled and the bituminous sheeting underneath is cleaned of dirt and debris.

What started out as a real eye-catcher quickly became a nuisance for the whole family. After only one summer, there was already partial resin blooms, the wood had become porous and dark, and the children often got splinters in their feet. In short: after only five years of service, the client decided, "... The terrace has to be removed."

Renovation with extra large outdoor ceramic tiles installed on stilts

To maintain the generously sized 30 square metre area, an extra large outdoor ceramic tile from Grohn was selected. The 1,200 x 600 mm tiles of the TALK series are 20 mm thick and were to be laid crosswise. For the support structure, the client opted for the PROSTILT pedestal and slab support system from PROLINE for various reasons.

PROSTILT – the solution for the roof terrace

The installation of slabs weighing around 40 kg on a sealed flat roof requires that the highest degree of structural safety and protection is provided and maintained, especially in terms of moisture-relevant waterproofing.

1. The pedestal base may not damage the seal

The lower part of the pedestal bases must be designed in such a way that they do not damage the bitumen sheets, even under extreme loads. PROSTILT not only has an extremely large footprint (\varnothing 20 cm), but also a rubber granulate pad placed under the base of the pedestal which provides ultimate protection in terms of the seal in the lower area. An integrated aluminium lining prevents the migration of plasticisers from the bitumen sheet into the pedestal base, allowing the plastic of the pedestal base to retain its durable function. In addition, the cushioning pad at the bottom and a second pad placed on the top make walking on the subsequent terrace noticeably softer and more comfortable.



Caption: Safe and reliable laying of outdoor ceramic tiles and natural stone on roof terraces using PROSTILT

2. Spacers for the roof seal

The roof terrace at the Holthaus household had a complex sealing system that ran vertically in the wall area, thus forming a kind of trough. In order to prevent any damage from moving slabs, PROLINE has developed a special clip, which was also used in Weinheim. The PROSTILT clip with spacer and integral neoprene pad was installed at the edge of the roof terrace, where the roof cover connects to the wall. This clip is simply placed on top of the pedestal base plate, where it is automatically fixed in position by the tab spacers. The sophisticated spacer forms a consistent 10 mm thick joint to the wall or to the end of the roof terrace. This ensures that the seal of the roof terrace does not sustain any damage even if the surface expands or there is movement in the upper material.

3. Drainage channel solution facing window or rather door

In the transitional area between the terrace and the living area, more precisely, where the French door is installed, a drainage line had to be built in accordance with DIN18040-2 to prevent water penetrating into the interior in the event of heavy rain or snowdrifts. PROSTILT not only offers a stylish solution, but, above all, a systematic solution for this in the form of the PROSTILT drain channel set.



Caption: Installation of the PROSTILT drainage channel set in accordance with DIN18040-2

The channel was installed a small distance away from the window using a spacer tile. This was achieved by fitting the channel on half of the adjustable base plate and screwing it down. The corresponding connecting tile was then installed between the channel and door frame. The drainage channel plus grid is thus flush-mounted at the same installation height.



Caption: The final result is not only technically perfect, but also looks brilliant.

4. Surface drainage via bitumen sheeting

After safeguarding the sensitive areas of the house, the question naturally arises as to where the water actually goes on the building. In this case, the terrace was already equipped with a gradient on site, which channelled the water directly into a cistern via down pipes.

The terrace therefore had to be implemented with the pedestal supports at different heights to level the surface according to the customer's requirements. If it rains, the rainwater runs down through the joints and is then drained off.

5. Overcoming different heights

Due to the system, installation on the sloping roof was very easy, as the extremely stable PROSTILT pedestal supports are available in heights of 27-170 mm; these can be easily and continuously adjusted in height thanks to a very ergonomically situated adjusting screw. Great flexibility is core to PROSTILT philosophy. Once the system has been understood, it can be used very easily and almost intuitively.

Pedestal supports have enormous potential

Especially for renovation and in urban settings, the possibilities are numerous for designing ceramic patios or terraces with pedestal supports. Due to the low weight of the system in comparison with traditional laying with gravel or bedding screed, PROSTILT can be used for a variety of projects. This makes it possible to construct roof terraces on buildings where previously this would have been structurally inconceivable.

In Weinheim, the clients were totally sold on the system. "Even after the winter we had with lots of snow and rain, the terrace still looked as good as new come spring. The fact that the tiles are only laid on the supports and not permanently fixed to them means that we even have the option of laying a concealed cable for Christmas lights or other things. We are really glad that we got rid of the wooden decking and have discovered the brilliant solution in PROSTILT for laying extra large tiles on our terrace."

6,466 characters

About Proline Systems

Three employees and a major vision: This was in 1994 when Proline Systems started up. Today, 20 years on, this vision has long been a reality. Proline Systems has assumed a leading position in the German market and is successful on all continents. More than 60 staff develop and sell more than 3,000 products. The product range of Proline Systems offers everything that innovative and discerning customers require, with tile profiles, floor profiles, base materials, drainage systems, sealing and drainage systems, as well as surface heating and cooling systems. It all started with the idea of developing sophisticated high quality tiling profiles, which ensure perfect results as design elements in floor and wall construction - both technically and visually.

With this idea, Proline Systems has become one of the most innovative companies in the industry. Today Proline Systems not only produces excellent individual products but the success of Proline Systems means: all our products interlock perfectly in a technical and visual way, and they surpass themselves together in every respect. This creates completely new options and facilitates processing considerably. Incidentally, Proline Systems can always be recognised by the bright and strong Proline green. A colour that stands for fresh ideas, the joy of innovation and the straightforward cooperation with our trade partners. Working with Proline Systems, you will quickly notice: The golden basis of the craft has long been green. Proline green.

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