

# LAYING INSTRUCTIONS No. 9b

For climate floor tiles



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## 1.0 Preliminary Notes

The information in these laying instructions is of a general nature. They serve as explanations for the experienced floor layer and **do not** claim to be complete.

For more comprehensive information, please **be sure** to read our "General additional information on laying technology", which you can also access in full on our website [www.anker.eu](http://www.anker.eu) under the heading "Service" > "Downloads".

Only through proper and professional installation, in accordance with the current "Verbände übergreifender Kommentar" (Comprehensive Commentary) of the VOB (\*) - in particular section 3.4, paragraph 3 – and the latest bulletins or guidelines, can the assured usage properties of the carpet be used permanently.

Consequently, it is clearly more advantageous to stay in the system - i.e. to use building materials from a single manufacturer - rather than to use different products from different manufacturers, as these clearly cannot be coordinated with each other.

## 1.1 Climatic Condition

If you want to avoid application-related damage, you have to make sure that the carpet sheets are adapted to the later corresponding, usual usage room climate before they are processed. To do this, unpack them and lay them out in the room for between 6 and 12 hours without processing them.

In accordance with the recognised rules of technology and the information sheet "Beurteilen und Vorbereiten von Untergründen" (Assessment and Preparation of Substrates) of the "Bundesverband Estrich und Belag" (Federal Association for Screed and Coverings) (as of February 2002) and the VOB (\*), Part C, DIN 18365, Paragraph 3.1.1, we **strongly advise you** not to apply the corresponding building materials (primers, fillers, adhesives) at a room temperature below 18°C and a floor temperature below 15°C and a relative humidity above 75 %.

## 1.2 Product-Specific Features and Subfloor

This product type in particular is a type of floor whose construction makes it possible to ventilate or air-condition corresponding rooms – from below through the floor construction of the climate floor double floor elements – by means of climate-regulating units.

Air-swelling tile elements, as so called climatic tiles, are provided with a special back coating that enables it to be used on climate-controlled floor constructions.

The surfaces of the air-permeable access flooring elements are usually made of steel, which is greased or oiled for rust protection reasons. As greases and oils are extremely effective separating agents, they must be removed with suitable solvents before the carpet is installed. However, constructions made of calcium sulphate or chipboard are also possible.

## 2.0 Seam Pattern

The individual carpet tile elements are produced by punching or cutting. Apart from very few exceptional cases – with certain qualities in corresponding colour settings – the existing seams can be perceived more or less clearly. So-called grazing light coming in through floor-to-ceiling windows significantly increases the visibility of seams. This fact is especially true for structured surfaces.

Especially in the area of raised access floors, the lifting or removal as well as the subsequent re-installation of textile floor coverings can lead to damage. Especially in the case of bouclé coverings, loops can be created if care is not taken. In order to avoid this type of damage, it is highly recommended to install correspondingly high Schlüter-rails along the access flooring as a protective device, against which any carpet flooring adjacent to it is then laid. In this way, the carpeting is no longer directly confronted with the described processes.

## 3.0 Laying procedure

### 3.1 Preparation for laying

- Please note that only carpet tiles of the same manufacture may be laid next to each other. For this reason, you must check the batch numbers on the individual packages for consistency. These numbers are also clearly printed on the backs of the tiles.  
Although minor commercial deviations in the colour shade of such a production are possible, observing all instructions does not exempt you as the floor layer from checking the colour uniformity between the floor tiles before applying them.
- Complaints with regard to colour differences can no longer be accepted after the carpet tiles have been laid - as they are not saleable as new goods.
- According to the VOB (German Construction Contract Procedures) guidelines (\*), a dry, level, dust and dirt-free subfloor is an absolute prerequisite for a perfect laying procedure. It is therefore extremely important that you completely remove existing textile floor coverings and adhesive residues beforehand.
- With a few exceptions, the climate tiles are laid in the same direction - the pile direction is marked with an arrow on the back.

### 3.2 Laying Procedure

In order not to negatively change the air permeability alone, **each** access flooring element is usually processed **individually**. If this is not possible for technical reasons, the room division is made from the door; starting with one parallel to line A (Fig. 01). The distance to the wall should be several times the length of a tile and is to be measured at the outer points of the wall. If necessary, edge tiles of the same size can be achieved by staggering line A on both parallel walls.

Then, starting from the door line, determine the starting point for the laying out with one tile length at a time, approximately to the centre of the room. Starting from this tile, you then successively cover the entire room with one tile at a time.

To do this, either lay a complete row of tiles from the door to the opposite wall first, or work in a stepped and joint-tight manner right from the start (Fig. 02).

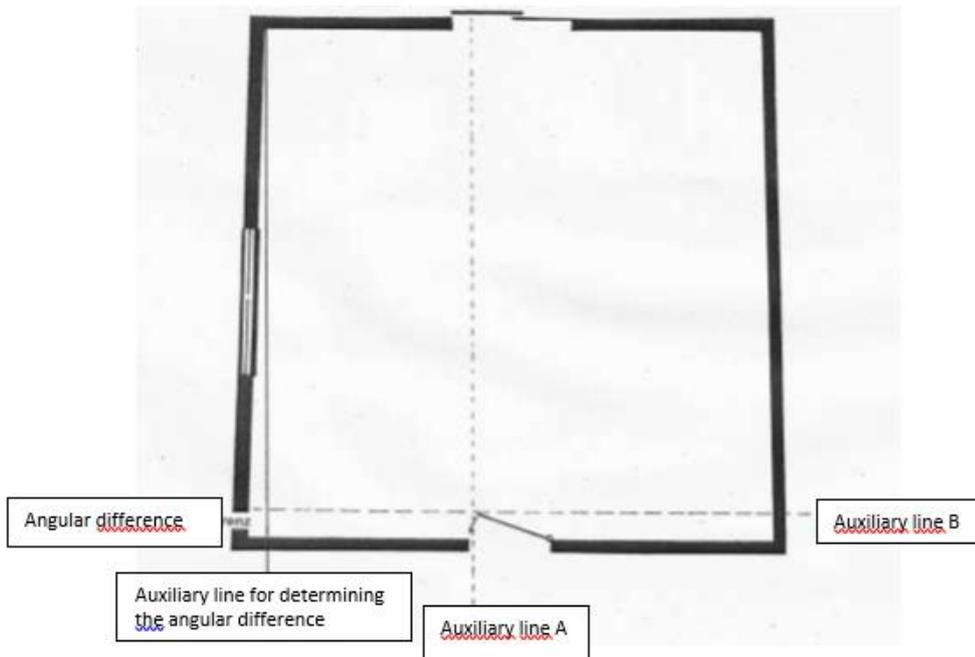


Fig. 01: Laying Planning

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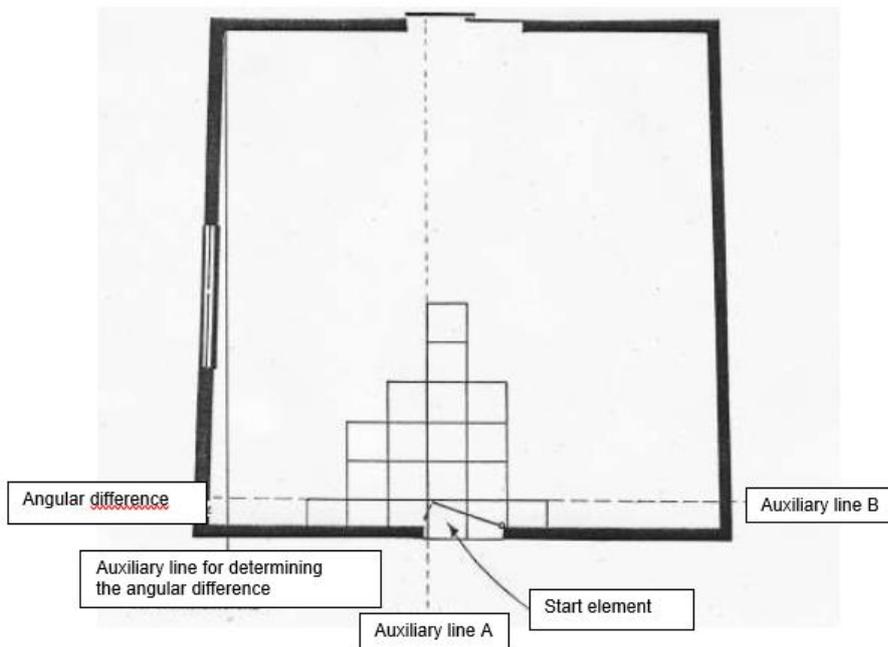


Fig. 02: Laying Procedure

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To make work easier, mark an auxiliary line at right angles to line A (Fig. 01). After the complete surface has been laid out, please roll it with a  $\geq 50$  kg articulated roller.

The cutting of the edge tiles can be done according to the following methods (Fig. 03).

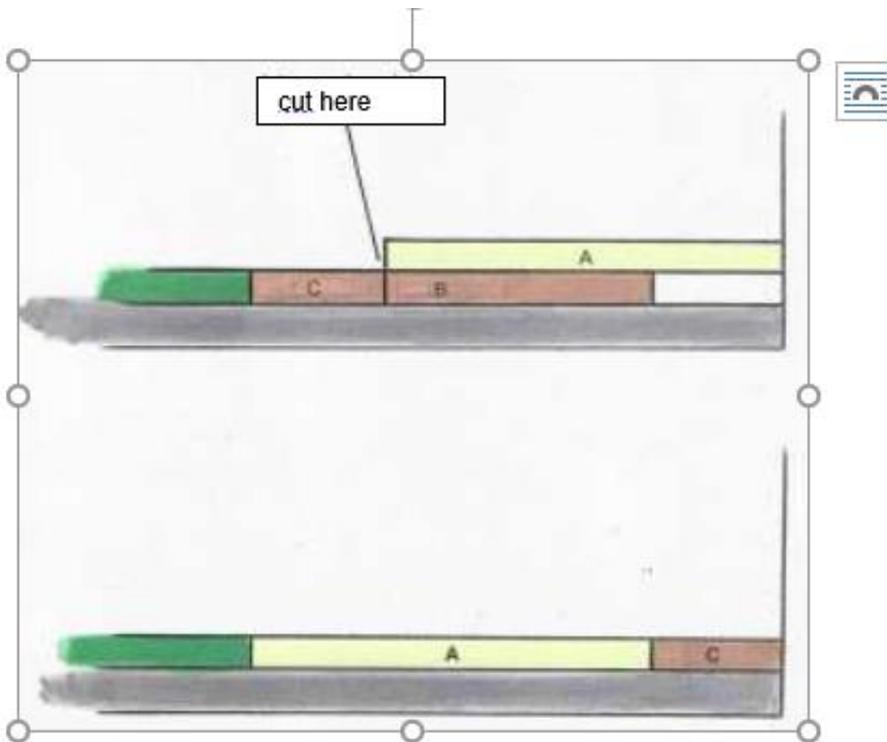


Fig. 03: Laying Procedure

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- You transfer the corresponding dimensions to the carpet tiles to be cut to size. The cut will be executed with the knife along a rail.
- However, you can also place the element that is supposed to be adjusted on top of the last complete carpet tile being laid out so that it butts up exactly against the wall. Now you can cut the carpet tile below with a knife, possibly with the help of a rail. Then simply exchange the positions of the two carpet tiles (Fig. 03).

#### 4.0 Adhesive

For the bonding of ANKER carpets, our application technology department will be happy to send you the current adhesive recommendation listed in each case by e-mail.

Both to prevent lateral slippage during subsequent intensive use and to easily withstand the air pressure flowing in from below as well as the anticipated load, the climatic tiles are fixed with suitable dispersion adhesives. For

example, if the elements are to be easily removed later and the built-up air pressure is not high enough to lift the carpet tile, the installation of the element tiles is carried out on the full-surface application of an anti-slip coating (ARB).

In addition to the use of commercially available adhesives, we recommend the following for the Element-, EVA-, System- and SonicWave-tiles if necessary:

Manufacturer	Adhesive substance	Application quantity	Applied with	Flash-off time
ARDEX	AF 185 G	150 – 200 g/m <sup>2</sup>	Moltopreneroll	≥ 60 min
UZIN	U 2100			
WULFF	Fixing gel			

A primer applied to the substrate beforehand optimises its effect and the earlier the product is applied before the flash-off time has elapsed, the more intensive the subsequent bond.

Although we **generally** advise against this, you can also use a different, equivalent product of your choice – **but only at your own responsibility**.

As a matter of principle excluded from this, basically **undesirable** possibility, are all qualities in whose product description certain adhesives / adhesive substances are prescribed in order to fulfil the requirements of CE-certification with regard to fire behaviour.

These adhesives are part of the fire test that is included in the CE certification. If adhesives other than those listed in the product description are used, both, the stated fire behaviour according to DIN EN 13501-1 and the stated building material class according to DIN EN ISO 9239-1 and DIN EN ISO 11925-2 as well as the stated CE certification are **no longer legally valid**.

When using adhesive substances such as an ARB, while observing the necessary flash-off time, from the entrance area the first element tile is placed in the angle formed by lines and locked in place. The other tiles are now laid on this line in a stepped and joint-tight manner.

Here too, good rubbing or rolling of the carpet with a ≥ 50 kg articulated roller is essential. If you have applied an adhesive and after you have rolled the carpet with a ≥ 50 kg articulated roller, the carpet must not be ordered with furniture or otherwise loaded before the load-bearing time set by the adhesive manufacturer has been reached (usually not less than 72 hours). Only then will the adhesive have reached its final strength. Anti-slip coatings and

pressure-sensitive adhesives, which will never fully harden, are already fully and unrestrictedly loadable after they have dried transparently.

### **Additional Note**

Every time a carpet tile is lifted, dust inevitably gets onto the sticky layer of the anti-slip coating (ARB). The dust forms a separating layer and the adhesive coating loses its effectiveness over time. Especially during the construction phase, this circumstance must be taken into account. A new ARB must then be applied to ensure the usage properties of the pavement. If the same type of ARB is used, the residues of the old anti-slip coating do not have to be removed beforehand.

- **ANKER** has no influence on a proper and professional processing and for this reason assumes no guarantee for the processing result.

In addition, please also take into account our website [www.anker.eu](http://www.anker.eu) where you can find even more interesting information under the term "Service" > "Downloads". And on our ANKER YouTube channel you can experience the technology tips visually <https://anker.eu/service/video-archiv/technik-tipps/>



If you still have questions, please call us. We will be happy to help you:

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