



INSTALLATION INSTRUCTIONS NO. 9

EVA element climate tiles and roll carpeting for ventilation floors

e.g.: Aera,
Alba,
Delta,
Lucca,
PEP

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1.0 Introduction

Please be sure to read our “Supplementary Laying Instructions,” which you can access in full at our website at www.anker.eu under “Service.”

1.1 Ambient conditions

To avoid damage, carpeting tiles or roll carpeting must be allowed to adapt to room climate conditions prior to laying. For this purpose, the material is laid out in unworked condition for at least 12 hours.

1.2 Seam pattern

The individual elements are produced by punching or cutting. With very few exceptions – for certain carpet grades in corresponding colors – seams are clearly visible. So-called “grazing light,” which passes through floor-to-ceiling windows, increases the visibility of seams significantly.

1.3 Zipper effect

The zipper effect is a typical characteristic of carpeting products. Practical experience has shown that it is impossible to match patterns precisely along seams, even when exercising extreme care and employing a perfect laying technique. Consequently, such irregular pattern repeats along seams are regarded among experts and according to German VOB regulations (*) as state of the art and must be accepted by clients.

However, the effect in question depends primarily on the size of the pattern repeat. In other words, the smaller the repeat, the less important or necessary it is to take it into account. Repeats smaller than 10 mm need not be taken into account at all.

The visibility of the so-called zipper effect also depends to a significant degree on the pattern and the color scheme. Carpet surfaces with strong contrasts will always reveal more readily noticeable differences than low-contrast tone-in-tone combinations.

2 Laying procedure for EVA element climate tiles

2.1 Preparation for laying

- ▶ To ensure perfect laying, the floor must be dry, even and free of dust and dirt (see German VOB regulations (*)).
- ▶ Existing textile floor coverings and adhesive residues must be completely removed.
- ▶ Adherence to all instructions does not absolve the layer from the obligation to check the element tiles to ensure uniformity of color prior to laying.
- ▶ The element tiles are laid – with certain exceptions – in the same direction. The pile direction is indicated by an arrow in the back of each tile (Fig. 3).
- ▶ Please make sure that only element tiles from the same production lot are laid next to each other.
- ▶ Minor color deviations which commonly occur in commercial goods may appear within a given production batch. Complaints regarding color deviations cannot be recognized once tiles have been laid.

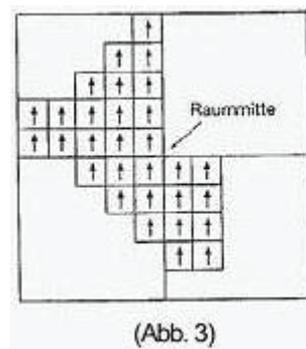
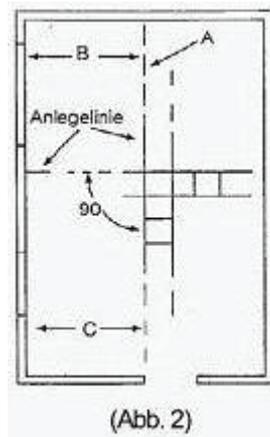
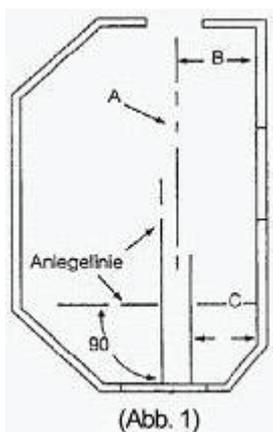
► Absorbent floors must be sealed with a primer prior to laying. This increases the bonding strength of the anti-slip coating applied in a subsequent step.

(*) Source for German VOB regulations

Kommentar zur DIN 18365 Bodenbelagsarbeiten, Arbeitskreis Bodenbeläge im Bundesverband Estrich und Belag e.V. (BEB), Troisdorf-Oberlahr, 2. aktualisierte und erweiterte Auflage (Ausgabe April 2012)

2.2 Laying EVA element climate tiles

Ordinarily, distribution within the room proceeds from the door, beginning with a line A (Fig. 1) that runs parallel to the main wall. The distance from the wall should be a multiple of one tile length and is measured from the outer wall points B + C (Fig. 1 + 2). Edge tiles of equal size can be achieved as needed by shifting line A relative to the two parallel walls. Then, the starting point for laying is determined by placing a single tile along the door line roughly at the midpoint of the room. To facilitate this process, a reference line is drawn at a right angle to line A.



To prevent lateral slipping during subsequent use, the element tiles are laid on a coat of anti-slip coating applied to the entire surface.

We recommend:	Adhesive:	Uzin U 2.100
	Application volume:	approx. 100 – 120 g/m ²
	Applicator:	lambswool roller
	Drying time:	≥ 60 min.

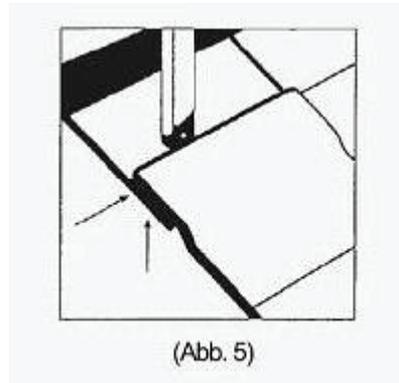
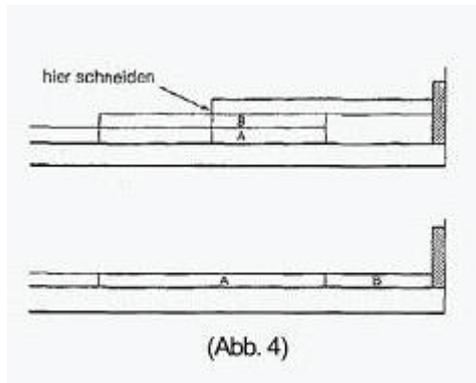
The recommendation for this adhesive also applies subject to certification according to "Allgemeine bauaufsichtliche Zulassung" of DIBT, Berlin as required as of 1 January 2012.

You may, of course, use a different equivalent product of your choice (for which you assume full responsibility). In order to optimize the effect of the anti-slip coating, a primer coat should be applied to the subsurface.

After applying the anti-slip coating and observing the required drying time, the first tile is laid and fixed in place at the corner formed by the lines. The other tiles are then laid precisely edge to edge in a stepped configuration along this line. In rooms smaller than approx. 25 m², it is ordinarily sufficient to affix the edge tiles with double-sided adhesive tape.

The edge tile can be cut to size using the following method (Fig. 4 + 5):

The corresponding dimensions are transferred to the tile to be cut to the proper size. The tile is cut with the carpet knife along a cutting rail. However, it is also possible to lay the tile that is to be cut to fit onto the last full laid tile in such a way that it abuts precisely with the wall. Then, the underlying tile is cut along the edge of the overlaid tile using a carpet knife and cutting rail, after which the positions of the two tiles are switched.



3 Laying tiles on climate floors

A climate floor is a type of floor constructed in such a way that the corresponding rooms can be ventilated/climatized through the floor structure from below by climate regulation systems. As a rule, the surfaces of double flooring elements consist of calcium sulfate, steel or plywood.

In order to avoid exerting a negative influence on the function of such a construction, it is important to ensure that holes or slits through which air passes are not filled or closed with the adhesive mass used in laying the tiles. Naturally, no one can require that ventilation holes or slits are completely free of anti-slip coating applied to the full floor surface.

3.1 Roll carpeting laying procedure for ventilation floors

Roll carpeting for ventilation floors is produced with a special backing designed for use on climate floors.

3.2 Laying procedure

3.2.1 Preparation for laying

As a rule, subsurface elements made of steel are greased/lubricated to prevent corrosion. As grease and oil are extremely effective separating agents, they must be removed with suitable solvents prior to laying.

Only carpet lengths from the same lot may be laid next to each other. In order to avoid difficulties resulting from possible variations in color, carpet lengths should always be laid next to each other only with the respective cut outside edges. This is achieved most effectively by laying the carpet continuously, i.e. without considering where seams come to rest – but always in accordance with German VOB regulations (*), however.

When laying tufted ANKER carpeting, it is important to ensure that existing carpet edges are cut individually between two rows of pile (and in the case of patterned carpeting in conformity with the repeat width, of course). Use of a Mittag seam cutter helps simplify this procedure. This tool is pushed with light pressure against the carpeting between two rows of pile. The cut should be made about 1.5 – 2 cm from the outside edge.

When laying velour carpeting, we recommend pushing the tip of an awl through the gap in the velour surface before making the actual cut, immediately after which the Mittag seam cutter is used as described above. Only in the case of very dense tufted velour grades in which no gap can be made visible is it necessary to make an overlapping cut (double cut) with the Mittag seam cutter.

Then, the cut lengths are laid over the prepared subsurface. The fabrication direction must be checked again at this point. It is also important to ensure uniform fabric appearance and the correct sequence of carpeting lengths. If necessary, lengths laid along wall projections, niches, etc., can be cut out accordingly in order to ensure that the carpet lies flat.

3.2.2 Laying

Carpeting is always laid using the folding method. In this method, the carpeting is folded along its long sides across its width so that the adhesive can be applied to the subsurface.

The carpeting length with which the process begins (length 1) is folded back approximately 2/3 of its length, and the length toward which you are working (length 2) is folded back 1/3 of its length. Ensure that the corresponding length does not slip by standing on it. Then the adhesive coating is applied uniformly to the subsurface with a lambswool roller (or with the tothing indicated in the chart below, if desired).

We recommend:

Manu- facturer	Product name	Approval no. (Z)/ application no. DIBT (II)	Tooth- ing	Application volume
Ardex	AF 2800	Z – 155.20 – 285	R / A 2	ca. 180 g/m ²
Bostik	Nibofix 2.000	II 41 – 155.20 – 102/11	R / A 4	ca. 250 g/m ²
Botament	Botafloor M 312	Z – 155.20 – 251	R/A4	ca. 250 g/m ²
Forbo-Erfurt	Eurofix Multi 546	II 41 – 155.20 – 152/11	R / A 1	ca. 150 g/m ²
Kiesel	Okatmos star 150	II 41 – 155.20 – 172/11	R / A 2	ca. 160 g/m ²
Mapei	Ultrabond Eco Fix	II 41 – 155.20 – 134/11	R / A 4	ca. 150 g/m ²
PCI	UFX 382	Z – 155.20 - 176	A 1	ca. 150 g/m ²
Schönox	Multifix	Z – 155.20 – 168	R / A 1	ca. 200 g/m ²
Stauf	Ibola Unifix	Z – 155.20 – 311	R	ca. 75 g/m ²
Thomsit	TK 199	Z – 155.20 - 215	R / A 2	ca. 200 g/m ²
Uzin Utz	Multilift	Z – 155.20 – 158	R	ca. 150 g/m ²
Wakol	D 3202	Z – 155.20 – 102	R / A 1	ca. 200 g/m ²
Wulff	HV 9	Z – 155.20 – 229	R/A1 + A2	ca. 150 g/m ²

R = Lambswool roller

We refer to the respective product data sheets for information regarding CE certification of the building material class.

This recommendation does not apply to carpeting for which specific adhesives are prescribed in the product data sheet in order to meet the requirements for CE certification with respect to fire resistance.

Although no one can reasonably demand that ventilation holes or slits are completely free of anti-slip coating applied to the full floor surface, it is important to ensure that holes or slits through which air passes in ventilation floors are not filled or closed with the adhesive mass.

When working with an ANKER carpeting product that is suitable for use on climate floors, carpeting lengths are laid on the adhesive only after elapse of a drying period of approx. 10 – 12 minutes.

Gaps between lengths can be eliminated by pressing the lengths together or, if necessary, with a knee-stretcher. In the absence of such a tool, it is more helpful to overlap the carpeting by the width of one row of tufts when laying the carpeting, as this allows you to press away excess material in the adhesive bed.

Length 2 is then folded back to the edge of the applied adhesive and length 3 to 1/3 of the width of the length.

Then apply the adhesive, lay the lengths (first length 2 and then length 3) – as described above – press them into the adhesive and rub them flat. Then the rest of length 3 is fixed in place, etc. It is very important to rub the carpeting thoroughly or roll it flat with a 50kg wheel roller.

It is possible as well to affix the carpeting in an anti-slip coating in the same way. This requires that the carpeting is laid onto a freshly rolled anti-slip coating with as little slipping as possible. It is also essential to ensure that no one walks on the carpet surface for at least 72 hours after laying and rolling.

We recommend:

Manu- facturer	Product name	Approval no. (Z)/ application no. DIBT (II)	Tooth- ing	Application volume
Bostik	Nibofix 3000	Z – 155.20 – 110	R	ca. 100 g/m ²
Botament	Botafloor T 313	Z – 155.20 – 110	R	ca. 100 g/m ²
Kiesel	Okatmos ER 15	II 41 – 155.20 – 183/11	R	ca. 100 g/m ²
PCI	FRS 387	Z – 155.20 - 316	R	ca. 100 g/m ²
Schönox	Tackifier	Z – 155.20 – 127	R	ca. 150 g/m ²
Stauf	Ibola D 70	Z – 155.20 - 304	R	ca. 125 g/m ²
Thomsit	T 435	Z – 155.20 – 222	R	ca. 125 g/m ²
Uzin Utz	U 2.100	Z – 155.20 – 172	R	ca. 100 g/m ²
Wulff	HL 1	Z – 155.20 – 229	R	ca. 100 g/m ²

R = Lambswool roller

We refer to the respective product data sheets for information regarding CE certification of the building material class.

This recommendation does not apply to carpeting for which specific adhesives are prescribed in the product data sheet in order to meet the requirements for CE certification with respect to fire resistance.

Would you like more information? Visit our website at

www.anker.eu

There you will find further useful information under "Service." If you still have questions, just give us a call.

We'll be happy to assist you.

ANKER-TEPPICHBODEN
Gebr. Schoeller GmbH + Co. KG
Zollhausstraße 112
D-52353 Düren, Germany
Tel.: +49 (0) 24 21/ 804 216
Fax: +49 (0) 24 21/ 804 309
export@anker-dueren.de