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## Recommendation for fitting the floor coverings: Alfa / Beta

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**The article Alfa / Beta, like other flat weave carpets, is not fitted in the same way as conventional loop pile and velours carpets. For this reason please observe all the details specified in these fitting recommendations.**

The specifications in the following fitting instructions are of a general nature. Only correct, expert fitting according to the 'General Technical Regulations' ATV / VOB Part C DIN 18365 and the most recent instruction leaflets and/or guidelines will ensure the high quality and assured properties of the carpet in the long term.

These fitting recommendations are intended as an explanation for experienced carpet fitters and make no claim to be exhaustive. If the recommendations and processing instructions of the suppliers of the auxiliary materials such as e.g. adhesives and fillers are conflicting, the manufacturer's specifications are always binding. Ensure that all materials used are compatible and will not have a negative affect on the construction and the carpet as a whole. It is up to the architect and carpet fitter to use compatible products or try out the products in trial areas to avoid any errors.

It is the responsibility of the carpet fitter to report any reservations he may have to this effect in writing to the client or architect before commencing work. If our carpet rolls arrive damaged in spite of their transport packing, please make a note of this on the haulier's delivery slip and accept the goods with reservation, if necessary. It is only possible to call the haulier to account for the damage if such a note has been made.

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### 1. Floors

The most important types of screed are summarised in DIN / EN 18 560. The following floor types are to be found: Cement screed, anhydrite screed, concrete floors, mastic asphalt screed, magnesia screed, terrazzo, marble, ceramic, particle boards, batten floors, prefabricated screed elements etc.

#### 1.1 Checking the floor

Before fitting textile floor coverings the contractor (fitter) must check that the floor is suitable for this. If the fitter has any reservations about the floor he shall submit these in writing, see VOB Part B § 4 No.3.

**A few examples:**

- unevenness exceeding the flatness tolerance as per DIN 18 202 / EN.
- cracks in the floor
- closed expansion joints
- insufficiently dry floor (The floor must be and stay permanently dry)

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- excessively rough and porous floor surface
- soiled/contaminated floor surface
- insufficiently strong floor surface, e.g. subsiding screed surface
- missing heating protocol for underfloor heating
- missing screed markings for the moisture measurement
- incorrect height of adjacent structures
- unsuitable temperature of the floor and basic climatic conditions (Minimum temperature of 18°C at a maximum humidity of 65%. These temperature and humidity conditions must be observed continuously day and night for 72 hours before and after fitting.)
- no projection of the edge insulation strip

### Attention!

Damage may occur during or after fitting if the floor is not checked correctly.

### 1.2 Damp test

Floors, with the exception of asphalt constructions contain household moisture. As soon as these key values are exceeded, i.e. the floors are still too damp, the increased humidity at the time of fitting the carpet may cause damage later on. For this reason check the floor before fitting the carpet using suitable humidity measurement such as the CM method. Take the respective values into consideration according to the rules of the profession. In the case of underfloor heating it is important to obtain a heating and cooling protocol from the client. In addition have a humidity measurement performed at marked points (without heating pipes) by the person laying the floor. Turn down the heating during and after fitting the carpet for 72 hours each (maximum floor temperature 20°C).

### 1.3 Primers and fillers

Floors which cannot form a permanent bond with the filler, such as very dense, smooth or very porous and highly absorbent floors, require a primer. This always applies to anhydride and magnesia screeds.

Thorough floor preparation is very important before fitting the article Eco as it does not conceal trowel marks etc. like other textile floor coverings. Therefore, we recommend scraping off any residual filler and sanding, if possible, to create a smooth, flat surface.

## 2. Fitting onto old floors

Remove all residual adhesive and other contamination from floors which have already had a glued down floor covering to obtain a firm, smooth surface. Subsequently apply a primer and an absorbent filler. Please refer to the processing guidelines of the filler manufacturer for the suitable filler, application thickness and water-cement ratio.

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### 3. Using the article Alfa / Beta

Before cutting to size check the carpet for perfect condition, colour change and any other visible defects. Common production-related tolerances (e.g. colour change of a batch with a grey scale rating greater than 3) should not be treated as a defect. Report any effects immediately to Bentzon Carpets ApS before cutting any individual carpets to size. Once the carpet has been cut or fitted, no visible defects can be accepted.

#### 3.1 Use of several rolls

When using several rolls of carpet check the production batch number on the roll label. In addition we also kindly ask you to observe the ascending roll numbers. Always fit the carpet lengths in this order to avoid colour deviations in the seam area.

#### 3.2 Acclimatisation

To guarantee perfect fitting acclimatise the textile floor coverings and the adhesive to be used for approx. 48 hours before fitting. Check that the floor temperature is at least 15°C and the ambient temperature is at least 18°C at a relative air humidity of max 65%.

#### 3.3 Laying the carpet lengths

Unless any special agreements have been made, the arrangement of the carpet lengths and the direction of the individual lengths is the responsibility of the carpet fitter. However, the carpet lengths should always be fitted in the same direction within one room unit. We recommend fitting the carpet in all rooms or levels in one direction only, due to the clearly visible texture of the **Alfa / Beta** carpet.

#### 3.4 Cutting the seams

We recommend cutting the edges of the carpet lengths separately and suggest proceeding as follows:

- \_ Cut approx. 2-3 cm precisely and in parallel from the roughly pre-cut edges on the right and left hand side of the length of carpet.
- \_ Place a 4m long roll-up steel straightedge (8cm wide) precisely along the edge of the strip. For long strips we recommend marking the line with a string to achieve a precisely straight cut. Cut along the roll-up steel straightedge with a sharp trapezoidal knife Alternatively you may use the seam cutter shown here.
- \_ If you were not able to cut through the edge of the carpet length completely, cut again by guiding a sharp hook-type cutter precisely along the original cut.

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## Recommendation for fitting the floor coverings: Alfa / Beta

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- \_ Two edges can be laid on top of each other and cut together, if necessary. Do not use a hook-type cutter for this type of cut as it will produce a frayed edge. It is not normally possible to cut through both edges at the same time, therefore when performing the second cut ensure that the blade is guided precisely in a straight line along the original cut. We normally recommend cutting the edges individually as this reduces the risk of fraying.
- \_ Due to the manufacturing technique of this article always avoid cutting head seams. However, if this is unavoidable (e.g. doorways etc.) cut precisely in the area of the lower lying rib as described above.

### 3.5 Folding back and gluing the individual seams

We recommend folding back the carpet along the seams, e. g, to allow each seam to be laid precisely in position (press) and glued. Please take care not to displace the individual lengths.

### 4. Gluing down the carpet

We recommend using an EC 1 bonding dispersion adhesive with high combined tension and shear resistance (min. 1.5N/mm as per DIN 281) and high adhesion peel strength.

We recommend B1 toothing for applying the adhesive. Use a suitable adhesive such as e.g. Multi Coll from Wulff. Apply uniformly to avoid the formation of glue pockets etc. Once the adhesive has been uniformly applied and the 'tack time' (depending on the climatic conditions in the room and properties of the floor) observed, the carpet can be laid into the glue. Butt the two edges of the lengths together while ensuring that the carpet is not under strain.

When laying down the lengths ensure that the adhesive is not pushed up onto the seam. Immediately remove any adhesive with water, if necessary.

#### **Attention!**

When using a double headed stretcher never extend the nail rows and tension slightly, otherwise the fibre filaments will be pulled and the carpet damaged.

After fitting the two edges together, press down the adhered area using a roller (linoleum roller). Do not rub with a hammer as the frictional heat may produce permanent stripes.

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## Recommendation for fitting the floor coverings: Alfa / Beta

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### 5. Cutting around the contours of the room

When using adhesives with adequate initial adhesion, you may start trimming the edges to size immediately after pressing down with a roller. Use a hook-type or trapezoidal cutter for trimming. Ensure that the blades are always very sharp to avoid damage to the fabric and to produce a cleanly cut edge. Cut edges may become frayed. Therefore, additionally seal all cut edges which run across the direction of production with seam sealer adhesive.

#### 5.1 Doorways

Lay the lengths of carpet, if possible, without a head seam from the hall areas into the adjacent rooms. Head seams are generally avoided. However, if this is not possible, proceed as follows:

- \_ When fitting carpet in several rooms, including a hall area, we recommend first fitting the carpet in the hall and then continuing as follows. Leave an area under the door as wide as a spatula unglued to allow for adjustment. When fitting the lengths of carpet in the room ensure that they match the texture of the hall lengths exactly. Ensure that the seam is directly underneath the door leaf.
- \_ We recommend covering this cut edge with a metal binding strip. If this is unsuitable for design reasons, apply sufficient seam sealer or similar adhesive to the cut edges to protect them against fraying. The same applies to the cut edges around the door frame.

#### 5.2 Edge connections

We recommend using commercially available skirting board systems. Due to the low material thickness of the carpet it is only suitable for use as a carpeted skirting board if fitted very precisely.

### 6. Installation with conductive ability

The article Eco fulfils all requirements specified by ISO/DISD 10965 and has a vertical resistance of approx.  $\leq 1010$  Ohm. Before laying the article Alfa / Beta check the floor, perform the above mentioned filling work and apply a conductive primer. Glue a length of 1m of a copper strip (10 x 0.08mm) to the conductive layer in the area of the earth connection and lead a suitable length to the earth potential.

#### Attention!

It may only be connected to the earth potential by an electrician. Following these floor preparation measures apply conductive adhesive as described above. Please use the toothing specified by the manufacturer of the conductive adhesive.

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### 7. Carpeting stairs

The article **Alfa / Beta** can of course be used to carpet stairs. It is important that the nosing of the stairs is uniformly rounded with a radius of at least 15mm. We recommend fitting the carpet lengthways down the stairs. Roughly cut the individual pieces of carpet for the individual steps, leaving an excess of approx. 5cm on all sides. Apply a contact dispersion adhesive onto the step and to the back of the carpet. Following a suitable 'tack time' lay **Alfa / Beta** into the adhesive and press down. Subsequently, use a sharp hook-type cutter to cut precisely along all contours of the step.

### 8. Reservation of the fitting recommendations

The manufacturer does not accept any liability for damage resulting from non-observance of these fitting instructions. Claims for compensation are, therefore, not possible.

The information given in these fitting instructions are of a general nature only.

In case of doubt we recommend performing an adequate number of trials and setting outtest or trial areas.

### 9. Cleaning recommendations

Please provide the user with the specially written cleaning recommendations for Eco directly after fitting.

#### Attention!

- Lay the seams carefully by hand into the adhesive layer. The use of carpet stretchers, gripper strips has to follow as described to avoid permanent damage at the surface of the carpet.
- If additional building work is to take place after **Alfa / Beta** has been fitted, protect the article from soiling.
- **Alfa / Beta** is easily damaged by the mechanical action of sharp-edged, heavy objects. Therefore, do not, for example, push furniture over the carpet as this will cause irreparable damage.