



Installation instruction
Structures 700 Broadloom

OBJECT CARPET

Inspection of subfloor

Responsibility for checking and preparing the subfloor lies with the contractor. The provisions of the German Construction Contract Procedures (VOB) DIN 18 365 Part C apply in this respect.

Of major concern in this regard are:

- sloping or pock-marked subfloors
- cracks in the subfloor surface
- subfloors which are not dry enough
- subfloor surfaces which are not firm enough
- subfloor surfaces which are too porous and rough
- discrepancies between the level of the subfloor and the level of the adjacent building parts
- the fact that an insulating underlay has been installed.

Pre-Treatment of subfloor

Subfloors must meet the verification criteria in accordance with ATV/DIN 18365 VOB Part C "Floor covering work" and DIN 18202 evenness tolerances). Please also note the construction recommendations of the respective material suppliers. Subfloor must be clean, permanently dry, free of cracks, all separating agents as well as tension- and compression-proof. Pre-coat and/or prime all screeds which have been processed in a good and workmanlike manner with a pre-coating and/or coating agent suited for the respective needs. In a next step apply at least 2 mm of a suitable levelling compound.

Air conditioning and processing temperature

The carpet to be laid must be air conditioned in the respective rooms 24 hours prior to laying. The requirements for the room climate must be met before, during and after laying. The room temperature should be at least 18 °C with a maximum relative humidity of 65%. The surface temperature of the substrate must not fall below 15 °C.

Inspection of Wall-to-Wall Carpet

Make sure your wall-to-wall carpet by OBJECT CARPET is uniform in its colours, in its patterns and is free of any fault or defect before you start cutting. General production-induced tolerances must not be found fault with (i.e. colour bleed of a batch compared with sample according to the grey scale DIN EN 20105-AO2 >-grade 3). Conduct of such inspection is mandatory under the provisions of Section 13 of the German Construction Contract Procedures DIN 18 365 ATV Part C. We kindly ask for your understanding that no further claims will be recognised once the carpet has been cut.

Laying the carpets and trimming the carpet webs for cut seams

The delivered roll-length and -width can show a production-related difference of 0,5%. Carpet webs normally face towards the main bank of windows. However, the contractor is free to lay the carpet at his/her discretion taking into account the carpet width and the least amount of cutting waste to be produced, unless otherwise agreed upon in the specification of services. Pattern and pile of the carpet webs to be installed in one room must run in the same direction. Cut work edges one by one and make cut web edges butt against each other. When cutting the webs longitudinally, make sure to make the production outer edges butt one another, to avoid colour differences.

Transition areas, electrical outlets, access panels, and circular cuts should generally be reinforced at the edges to prevent the individual elements from breaking out. When working on dividing rails, the textile covering must not be higher than the rail. If the textile covering is higher, damage to the carpet cannot be ruled out.

Fitting webs from several rolls

If you lay several carpet webs in the same room, lay them side-by-side in order of the roll numbers (for example, first 1001 A, then 1001 B, 1001 C, and so on.).

Repeating pattern

A clamping device is needed to install repeat pattern carpeting. Wall-to-wall carpets are tensile textile surface structures which may distort due to their specific nature. The floor layer will have to stretch the distortions in such way that the patterns match up using any tool suitable for this purpose (double head stretcher). However, minor deviations cannot be ruled out altogether and must therefore be accepted.

Permitted tolerances in the delivery condition are:

Edge straightness: 10,0 mm over a length of 2,0 m

Cross bow distortion: 1% across the width, but not more than 4,0 cm

Skewed weft: 1% across the width, but not more than 4,0 cm

Elongation: up to 0,5% of the length, i.e. 5,0 cm elongation on 10,0 m goods (row distortion)

Transition areas, power supplies, inspection openings and round cuts should additionally be reinforced at the edges to prevent the individual tufts breaking out.

Repeating pattern

Small-patterned designs may produce zipper effects which may even show if the installation has been carried out in a workmanlike effort in line with state-of-the-art techniques. This property is considered typical for this type of merchandise. Pursuant to paragraph 3.4.6 of the German Construction Contract Procedures Part C, DIN 18365, such irregularities in the repeat pattern which show in the seam area reflect the current state of the art in the industry and must therefore be accepted by the principal. This effect is mainly influenced by the size of the pattern. The smaller the repeat pattern, the less it must and/or can be considered. This zipper effect will be more visible the more contrasting the pattern is.

Special attention should be given to the seam processing of the following articles

In these carpets, seams should be cut with a trapezoidal blade along the steel ruler, from the carpet upper side. It is important that each web edge is cut individually. After that, the seam edges are tightly butted together when being put into the adhesive. To melt together the pile filaments in the area of cut edges and to make the seam tight and invisible, we recommend to use a seam edge stiffener, for example, cold welding liquid of type A from Mueller, to be treated with a hand welding device (for example, Leister Triac).

Seam processing

Doors are normally considered as borderline of a room unit. Head seams are permissible in carpet webs measuring more than 5 m and an attached piece of at least 1,00 m only. However, you must not have one head seam after another at a distance of 5 m from one another. Piecing together carpet webs is not permissible either.

Seam processing

With woven carpets head seams must be avoided.

Adhesion

In order to meet all the stated characteristics and to avoid dimensional changes in carpets in tracks, we always recommend full-surface adhesion. Full-surface fixing is also possible for qualities that are equipped with our WELLTEX® Akustik Plus backing constructions. As a precautionary measure, we would like to point out that fixed installation is a deviation from the DIN VOB 18365 floor covering work, part C.

For the processing of the adhesives, please note the recommendations of the respective adhesive supplier.

Adhesive Recommendations

Producer	Conductive Glue *	Fixation **
Thomsit www.thomsit.de	T 410, T 440	K 145
Kiesel Bauchemie GmbH www.kiesel.com	Okatmos ET6, Okatmos megaStar	Okatmos® Star 150 plus
Uzin Utz AG www.uzin.de	Uzin UZ 57, Uzin UZ 88, Uzin UZ 90	Uzin UZ 2100, Uzin UZ 2500
Wulff GmbH & Co. KG www.wulff-gmbh.de	Multi Coll, LinoTex, Multi Strong	HV 9, Fixiergel
Mapei www.mapei.com	Ultrabond Eco TX 2 Ultrabond Eco TX 3	Ultrabond Eco Fix Ultrabond Eco Fix Tack TX+

* suitable for qualities with a second back, WELLTEX® Akustik and WELLTEX® Akustik Plus back

** suitable for qualities with WELLTEX® Akustik Plus back & Welltex® Circular Acoustic

Conductive laying

Data centers and rooms exposed to extreme conditions often require conductive laying. Any wall-to-wall carpet by OBJECT CARPET made from 100 % polyamide with carbon fibre or a conductive precoat backing or a synthetic second backing may be installed with characteristics of conductivity. For conductivity purposes, a copper strip measuring 1.5 m is applied using an equipotential bonding every 30 m², leaving 0.5 m unglued to serve as connection to the equipotential equalisation (going to ground). All connection works must be accomplished by an electrician in compliance with the VDE standards. The wall-to-wall carpet will be adhered over the entire surface of the pre-treated subfloor using a fair electronically-conductive dispersion bonding. Comply with the glue manufacturer's processing guidelines in terms of spread rate and trowel notch.

Laying on stairs

We recommend solvent-free contact adhesives for laying on stairs. The processing instructions of the adhesive manufacturer should be observed. In general, the nap line position on stairs must always run from top to bottom. the tuft rows must always run at right angles to the edge of the stairs. Stair edges must have a radius of at least 10,0 mm. Please refer to the relevant technical data sheet for suitability for stairs.

Carpeting and floor heating

All wall-to-wall carpets by OBJECT CARPET have been designed to allow for the use a floor heating in any case. Various heating manufacturers indicate the prevailing threshold value to be $0.15 \text{ K} \cdot \text{m}^2/\text{W}$. The value of any carpet by OBJECT CARPET is clearly below this value.

General remark

The above information, especially suggestions for the processing and use of our products, are based on our knowledge and experience. Liability can neither be based on this information nor on oral advice. We reserve the right to make changes in line with technical progress.