

FOCUS TECHNOLOGY

Features, Functions & Co.
Important product features explained in a clear way

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PROFESSIONAL CARPET





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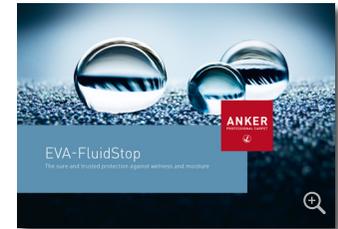
Important product features explained in a clear way



Whether it's a special application, a special product feature or the topic of sustainability: Many of the ANKER carpets offer special features and functions that make it really worthwhile to take a closer look.

With our brochure FOKUS TECHNOLOGY we would like to take a look behind the scenes of technology under the motto "important product features explained in a clear way". Here we explain what lies behind the individual functionalities and innovations of ANKER, and introduce you to the most important benefits and areas of application. And that quickly comprehensible and without any cumbersome technical-Latin.

Do you want to know more? Of course, we are also at your disposal for further information. Simply contact us for this.



UnitBack

The innovative back design

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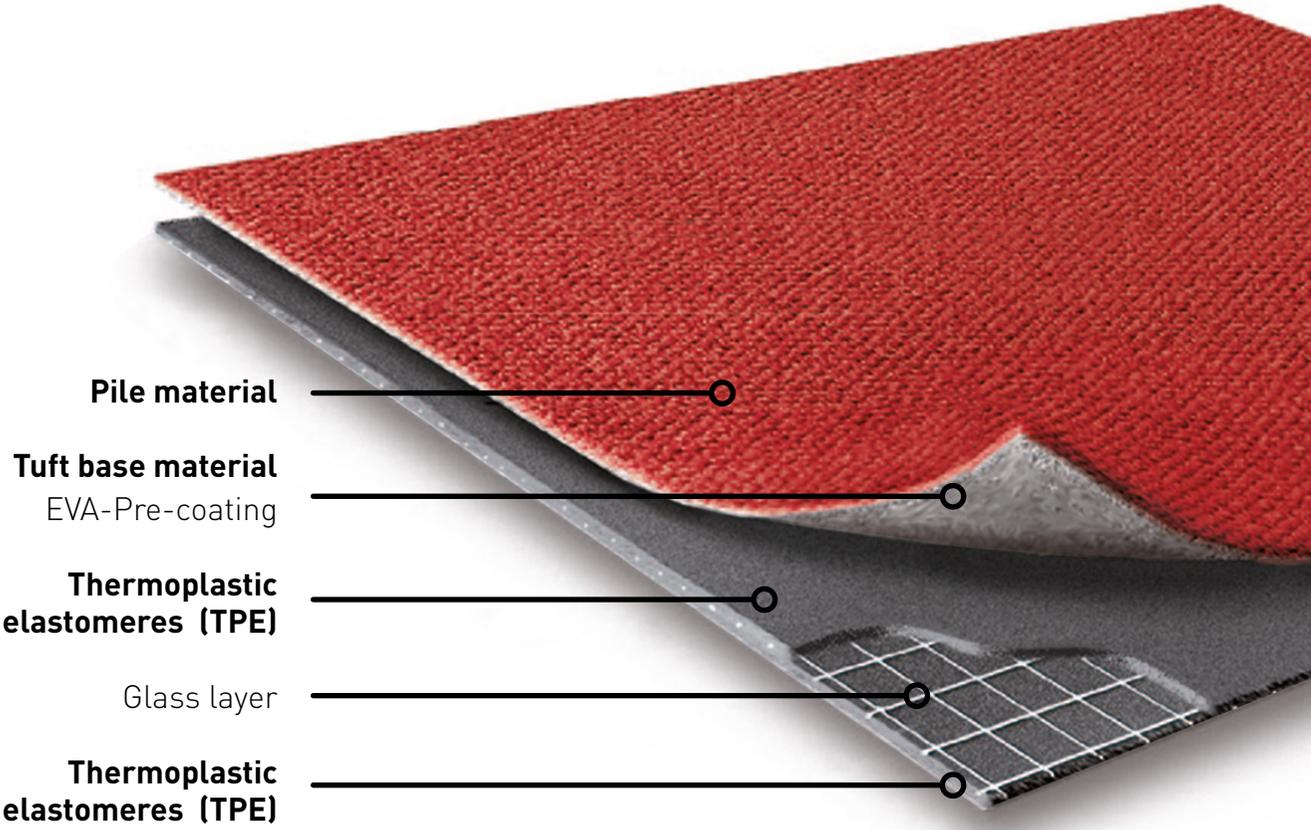
UnitBack

The foundation for sustainability has been laid

UnitBack – an odourless back coating with excellent laying and lying properties. Latex-, bitumen- and PVC-free and another component towards sustainable and recyclable products with optimally matched layers.

The following ANKER products are equipped with UnitBack:

ATUM, TRAM, SUM, NEBA, CODIT, TERUM





EVA-FluidStop

The sure and trusted protection against wetness and moisture



EVA-FluidStop

The sure and trusted protection against wetness and moisture

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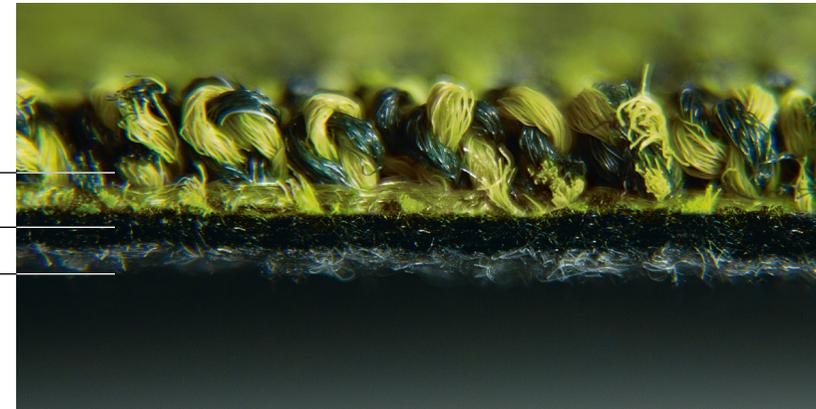
There are many different areas where textile floor coverings are not only exposed to moisture but also to the regular effects of wetness. These typically include hotels, museums and congress halls. Others are facilities such as doctors' surgeries, clinics, rehabilitation centres or retirement homes. The high frequency of visitors and the associated environmental influences place special demands on the carpeting. This must not only live up to the qualitative and visual aspects of interior design, but also ensure that both the floor covering and the subfloor are permanently and safely protected against liquids and moisture penetration.

With EVA-FluidStop ANKER is offering a special carpet backing that was developed precisely for use in those areas and conditions highlighted above. This backing material is manufactured using the unique ANKER sandwich technology, in which the tuft backing is permanently bonded to the EVA-FluidStop layer and a textile fleece cover through a complex process. The result is a tactile product that is fully textile and absolutely impermeable to liquids of any kind. This means that moisture and wetness cannot penetrate either the carpet backing or the subfloor. In so doing, functionality and possibilities of creative floor design are perfectly combined.

SD-loop pile

EVA-FluidStop

Textil fleece



Advantages of EVA-FluidStop at a glance

- Sure and trusted protection against wetness and moisture for the subfloor and carpet backing
- Manufactured through a unique production process in which the tuft backing, the EVA-FluidStop layer and textile fleece cover are permanently bonded together
- Ideal for facilities with a high number of visitors or special requirements such as doctors' surgeries, clinics, rehabilitation centres, retirement homes, hotels, museums etc.
- Offers a perfect combination of functionality and possibilities of creative floor design

Magnetic Tiles

Timesaving and sustainable: tile laying without glue

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Magnetic Tiles

Timesaving and sustainable: tile laying without glue



Sustainable building work is not just a matter of choosing an ecological construction method, adhering to a particularly low total energy requirement or ensuring the rigorous selection of materials. It also means taking the whole life cycle of a building into consideration right from the start and, as soon as work on the new build begins, already thinking about recycling the materials employed at a later date.

Magnetically adhesive carpet flooring from ANKER provides an innovative and environmentally friendly solution that, at the same time, takes several of these factors into account. For example, not only can magnetic tiles be laid in less time and without complication, but they also enable this to be done without chemicals or the use of adhesives. Moreover, there's no need for the expensive renovation of the underlying surface if replaced later on, as is the case, for example, with glued carpets. The existing magnetic tiles can simply be removed and replaced with new ones.

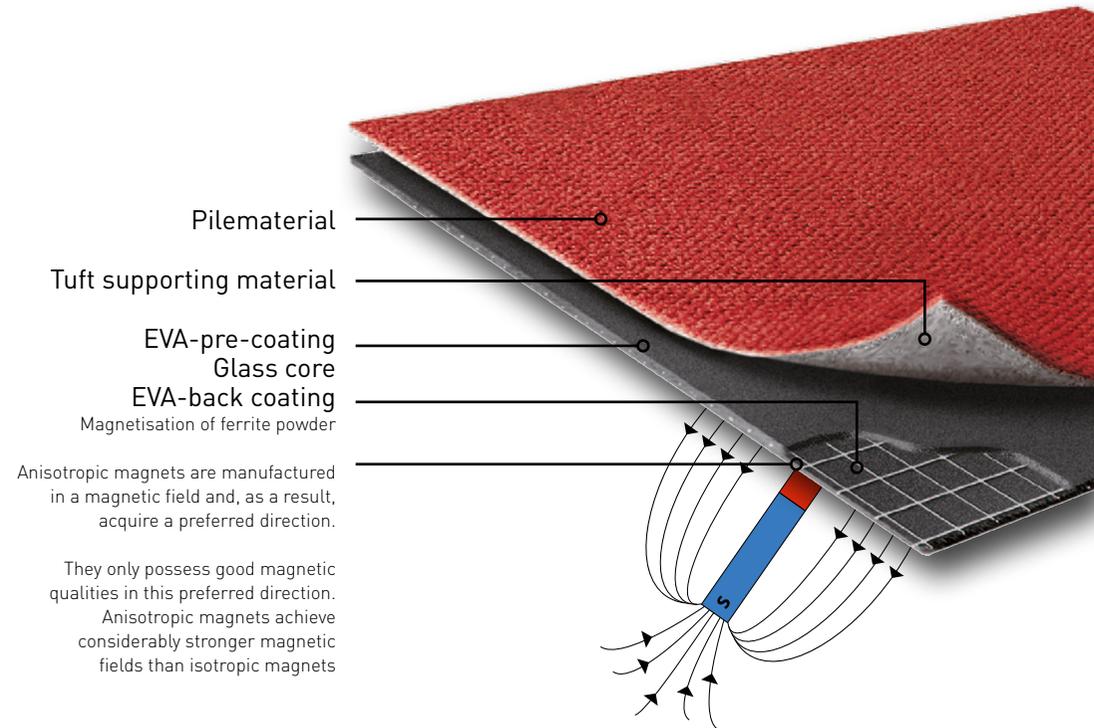
The basis for these properties is a heavyweight EVA coating whose filling agent contains a high proportion of ferrite powder. At the end of the production process, this is exposed to a strong, permanent magnetic field, during which the ferrite particles align with one another and take on magnetic properties. In view of how the permanent magnet works, this magnetisation is 'anisotropic'. This means that the magnetic field operates in one direction only – namely, always downwards. Consequently, no magnetic effects can be registered on the upper surface of the carpet or even in the room.

Magnetic tiles can be laid on all substrates that respond to magnetism (e.g. sheet-steel false floor panels, false floor panels/substrates laminated with sheet steel).

Here, the magnetic adhesive force works in such a way that, while the tile can be pulled upwards without effort, sliding it to one side is only possible with the use of major force. This ensures the necessary safety and provides the best possible protection against unintentional slipping.

The advantages of Magnetic Tiles at a glance

- Simple laying process without chemicals or the use of glue on all substrates that respond to magnetism (e.g. sheet-steel false floor panels)
- Just as safe as a glued carpet: reliable grip against sideways movements or unintentional slipping
- Time-saving, uncomplicated renovation: take off old tiles – clean surface – lay new tiles – all done!
- Magnetic tiles are 'anisotropic' – i.e. they're only magnetic on the underside and towards the floor (no magnetic effects on carpet surface or in-room)
- Delivered as 60 x 60 cm tiles





SolutionDyed

Colour-fast and hard-wearing – all the way through



SD
SolutionDyed

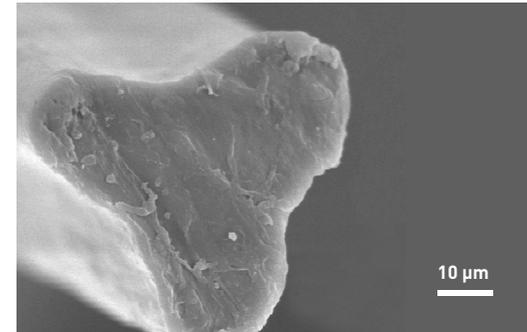
SolutionDyed

Colour-fast and hard-wearing – all the way through

High levels of public use, frequent cleaning with aggressive agents, intense sunlight and other (environmental) influences place significant demands on textile floor coverings, particularly in the commercial sector. Here, carpet flooring with extreme endurance and excellent colour fastness – even after many years' use – is much sought after.

The answer is ANKER floor coverings made from SolutionDyed fibres, which successfully stand up to numerous kinds of wear and tear such as UV radiation or treatment with chlorine-based detergents, combining resilience with easy maintenance. As such, they possess ideal qualities for business use in areas with extreme levels of wear – such as offices, public authorities and banks or hospitals and hotels.

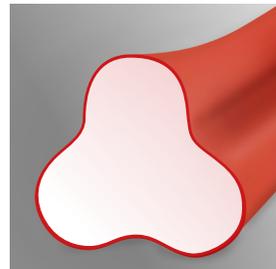
This is made possible by a special manufacturing process, in which the dye is already infused in the fibre during production and not – as is customary elsewhere – applied externally. As a result, a long-lasting and extremely colour-fast dye permeation is achieved right through to the fibre's core. It is a production method that offers even more advantages because, at the same time, it reduces the demands placed on valuable resources and the environment. For example, it dispenses with the subsequent wet dyeing process required for the vat dyeing of off-white threads. This guarantees considerable reductions in the consumption of process water and the production of wastewater. And since it also dispenses with the warm-up procedure for dyeing facilities customary elsewhere, it also saves considerable energy.



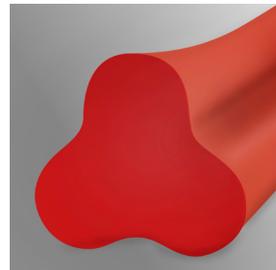
Macro photograph of a SolutionDyed fibre

Advantages of SolutionDyed at a glance

- Special manufacturing process in which the dye is infused in the fibres during production, achieving dye permeation of the whole fibre right through to the core
- Extremely colour-fast, long-lasting, hard-wearing and easy to maintain
- Also withstands UV radiation and extreme wear and tear (e.g. aggressive detergents)
- Ideal for use in areas with high levels of public use (e.g. offices, public authorities, banks, hotels, hospitals)
- Environmentally friendly, resource-saving production method that saves considerable quantities of water, wastewater and energy



Conventional externally dyed fibre



Dye-permeated SolutionDyed fibre



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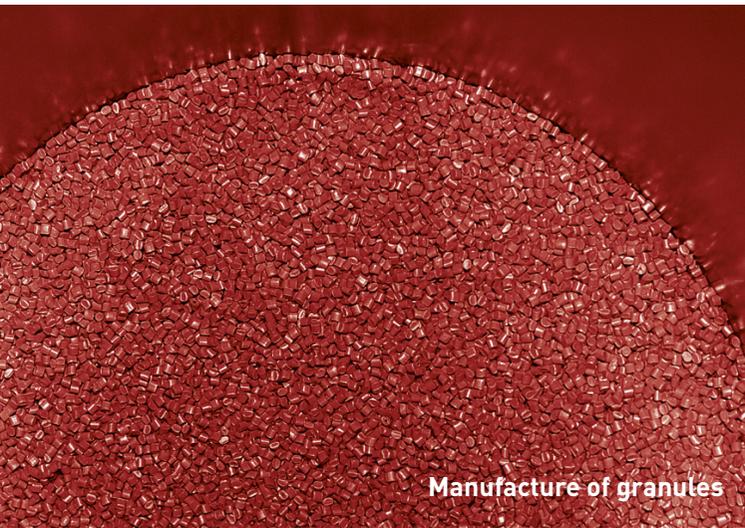


ECONYL[®]-regenerated Nylon

Working for the environment – responsibly and with conviction



Collection of old fibres



Manufacture of granules



Finished spun yarn

ECONYL®-regenerated Nylon

Working for the environment – responsibly and with conviction

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Environmental protection, sustainability, saving valuable resources – these are topics that are truly becoming more and more important every day. That applies to our everyday lives, but of course – and most importantly – it also applies to the industrial sector, construction and architecture. Here there is a demand for meaningful alternatives that incorporate ecological features and provide long-term concepts that are not just thinking about tomorrow, but also the day after and far beyond.

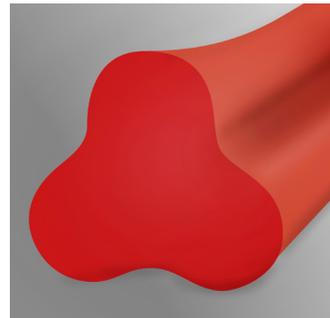
As a producer and supplier of high-quality business carpeting for a highly diversified range of uses, ANKER too is conscious of its own responsibility – and with total conviction at that. That is why they have already been using ECONYL® fibres from Aquafil to produce a large proportion of their product range for several years.

ECONYL® consists exclusively of nylon 6 waste materials, both pre- and post-consumer, that would otherwise pollute the Earth, such as fishing nets and old carpets. ECONYL® regenerated nylon has exactly the same properties and performance as standard nylon coming from crude oil but can be recycled, recreated and remoulded again and again. In terms of its production process as well, ECONYL® nylon again has numerous advantages compared with the manufacture of conventional fibres and yarns.

As well as being a solution on waste, ECONYL® regenerated nylon is also better when it comes to climate change. It reduces the global warming impact of nylon by up to 90% compared with the material from oil. But the outstanding environmental footprint of ECONYL® regenerated nylon isn't its only impressive feature. Because, in the last analysis, what we have talking about here is at the same time a first-choice premium polymer that enables ANKER to manufacture first-class carpets of top-end quality for the most demanding situations that are indistinguishable from products made with conventionally produced polyamide, both visually and in terms of wear properties and functional characteristics.



ECONYL®-Faser white



Solution-Dyed ECONYL®-fibre

The benefits of ECONYL® at a glance

- ECONYL® fibres consist exclusively of nylon 6 waste from all over the world that would otherwise pollute the Earth.
- For every 10,000 tons of ECONYL® raw material: 70,000 barrels of crude oil are saved and 65,100 tons of CO₂ eq. emissions are avoided
- Premium quality for the most demanding situations that is indistinguishable from conventionally produced polyamide, both visually and in terms of wear properties and functional characteristics
- Totally sustainable: ECONYL® can be recycled and reused over and over again

SonicWave[®]

Optimum room acoustics for more productivity and creativity

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SonicWave®

Optimum room acoustics for more productivity and creativity

Optimal room acoustics will always be likewise conducive to a good work atmosphere - whether in an open-plan office, a reception area or, for example, conference and meeting rooms - and, thus, to more productivity and creativity but also to the health and satisfaction of employees.

To achieve this attention is frequently first given here to the design of the ceilings and walls. However, it is not unusual for the structural options here to become quickly exhausted due to the nature of the building or because they are relatively expensive. Consequently, intelligent conceptualisation also includes another area in this regard, namely, the floor covering; this is because when it comes to acoustics, on account of its surface area, the floor covering can be assigned more than just a supporting role.

Carpets can generate excellent results when used as (porous) sound absorbers, particularly when compared with floor coverings with (sonically) hard surfaces, such as, ceramic floor tiles or parquet flooring. As a result, particularly in the mid to higher frequencies (2,000 to 4,000 Hz includes, among others, the human voice frequency range), absorption values of up to 90 % can be measured. With a view to providing even more effective sound absorption here, ANKER has further enhanced the already good acoustic properties of its textile floor coverings. Carpets sold under the SonicWave® label are backed with a special acoustic fleece; this provides SonicWave® optimum room acoustics for more productivity and creativity

that achieves aw-values (sound absorption coefficients) up to 100 % better than standard products. Moreover, this can even be achieved in the lower frequency ranges of 500 to 1,000 Hz where sound absorption is 4 to 5 times higher in comparison.

Therefore, carpets backed with SonicWave® fleece play a part in considerably reducing the costs for work-intensive and expensive measures using acoustic furnishings.

Overview of the advantages of SonicWave®

- Special acoustic fleece that can improve the sound absorption coefficient by up to 100 % (when compared with standard products)
- Very effective noise reduction across all frequency ranges - also in those ranges between 500 and 1,000 Hz
- Enhances the work atmosphere and is conducive to increasing productivity and creativity
- Saves work-intensive measures such as, for example, installing acoustic furnishings and, in this way, plays a role in considerably reducing the costs for acoustic protection concepts
- Test reports are available not only for products related to sound absorption according to DIN EN 354, but also impact noise according to ISO 10140
- Carpets backed with SonicWave® fleece can be supplied as roll carpeting and tiles

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Rolls

Pilematerial
Tuft support material
Pre-coating
Glue layer
Textile backing

Rolls with SonicWave®

Pilematerial
Tuft support material
Pre-coating
Glue layer
Acoustic fleece

Tile with SonicWave®

Pilematerial
Tuft support material
Pre-coating
EVA | Glass-core
Acoustic fleece

SONIC
WAVE
BACK

QuellLuft carpet

For draught-free floor ventilation

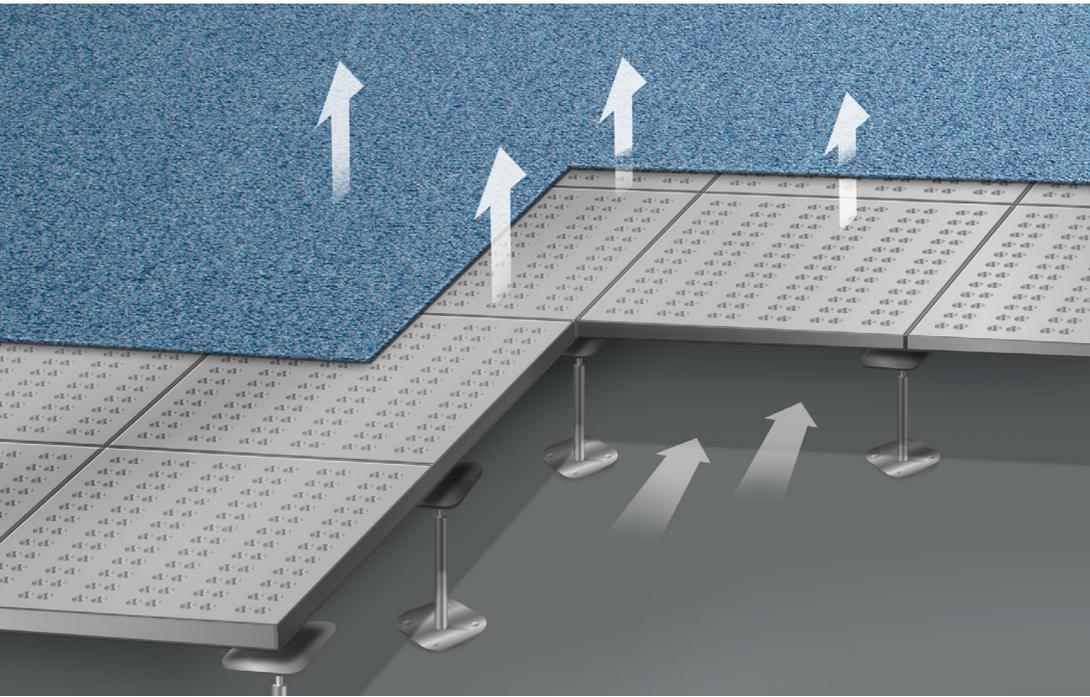
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QuellLuft carpet

For draught-free floor ventilation

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Displacement ventilation is an air-conditioning technique that has been conceived for larger buildings with major ventilation requirements. These include, for example, public buildings, meeting or event venues, theatres and cinemas.

In this technique, a slow flow of air is transported through an air-permeable flooring system to the room above. This flooring system generally consists of metal slits, perforated plates, or perforated double or hollow room

floors with partially integrated perforated plates. A major advantage of this system is that it enables draught-free, even ventilation of the entire room, and achieves this with much lower, hardly perceptible airflow velocities than conventional ventilation systems.

The QuellLuft carpet from ANKER makes it possible to use this technology without having to forego a creative interior design using textile floor covering. If desired, the associated technology can even be cleverly concealed so that the overall visual appearance of the premises is not at all adversely affected.

ANKER QuellLuft carpet has been conceived in such a way that volume flow and pressure differences, and the resulting effects on ventilation, can be perfectly harmonised with one another.



Here ANKER is benefitting from over 30 years of experience in the manufacture of special carpet flooring for displacement ventilation systems, which are giving excellent service day after day in such places as the Reichstag and Federal Chancellery in Berlin.

Advantages of QuellLuft carpet at a glance

- Special carpet for use with displacement ventilation systems – e.g. in public buildings, meeting or event venues, theatres and cinemas
- Offers more scope for creativity in interior design using textile floor coverings
- Technical components can be cleverly concealed with QuellLuft carpet flooring (on request)
- Carpet flooring is perfectly harmonised with the associated ventilation systems
- Can be delivered as roll carpeting or tiles