TECHNICAL DATA SHEET

Needle felt carpet tile 50 × 50 cm, PVC- and bitumen-free – class 33, Bfl-s1, 21 dB impact sound

Item number: DD-VB-SO-766 · Issue: 11/2026

This **needle felt carpet tile** is made for representative, high-traffic areas: open-plan offices, administration buildings, schools and meeting zones where many people walk and office chairs roll every day. The dense, mottled wear layer of polypropylene and polyamide is flat and hard-wearing; the tiles reach the highest commercial use class 33 and reaction to fire class Bfl-s1.

The special feature is the backing, which contains neither PVC nor bitumen. Together with the thick wear layer it delivers an impact sound reduction of 21 dB according to the manufacturer – considerably more than many thin commercial floorings. For projects with sustainability targets: according to the manufacturer, this quality carries the German Blue Angel eco label for low-emission textile floor coverings.

Technical data (manufacturer information)

Construction	Needle felt
Wear layer	70% polypropylene, 30% polyamide 6
Pile weight	450 g/m^2
Format	50 × 50 cm
Total weight	3120 g/m^2 (±15 %)
Total thickness	6.5 mm
Reaction to fire (EN 13501-1)	Bfl-s1
Use class (EN 1307)	Class 33 – commercial, heavy
Comfort class	LC1
Castor chair suitability	suitable, including continuous use
Electrostatic behaviour	antistatic (< 2 kV)
Volume resistance	max. 1.0 × 10^8 Ohm
Impact sound reduction Delta Lw	21 dB
Sound absorption alpha w	0.15
Thermal resistance	0.07 m^{2}K/W
Slip resistance (EN 13893)	DS (> 0.30)
Backing	PVC- and bitumen-free
Underfloor heating	suitable
Test marks / eco labels	Blauer Engel (RAL-UZ 128), GUT, CE
Minimum order	200 m^2

Features

- Highest commercial use class 33, comfort class LC1
- Reaction to fire Bfl-s1 to EN 13501-1
- Suitable for continuous castor chair use (ISO 4918)
- Impact sound reduction 21 dB, sound absorption alpha w 0.15
- PVC- and bitumen-free backing, dimensionally stable
- Antistatic (< 2 kV), suitable for underfloor heating
- Tiles replaceable individually – repairs without full refurbishment

Typical applications

- Open-plan and private offices, meeting rooms
- Schools, universities, administration buildings
- Reception and waiting areas, practices
- Projects with acoustic and indoor air requirements

Colours

Available colour numbers: 016, 024, 044, 054, 056, 085, 088, 089. The images show the shades; screen display may differ from the original. We are happy to send samples before you order.

Delivery and minimum order

Delivered directly from European production. **Minimum order is 200 m^2** per colour and quality. Price, lead time and installation material (tackifier or adhesive) are included in our quotation – just send us the area, preferred colour and delivery location.

All technical values are manufacturer data from standardised test methods. Please check against the current declaration of performance and the requirements of your project whether a floor covering is approved for your application (e.g. fire safety, escape routes, castor chairs).