

## Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

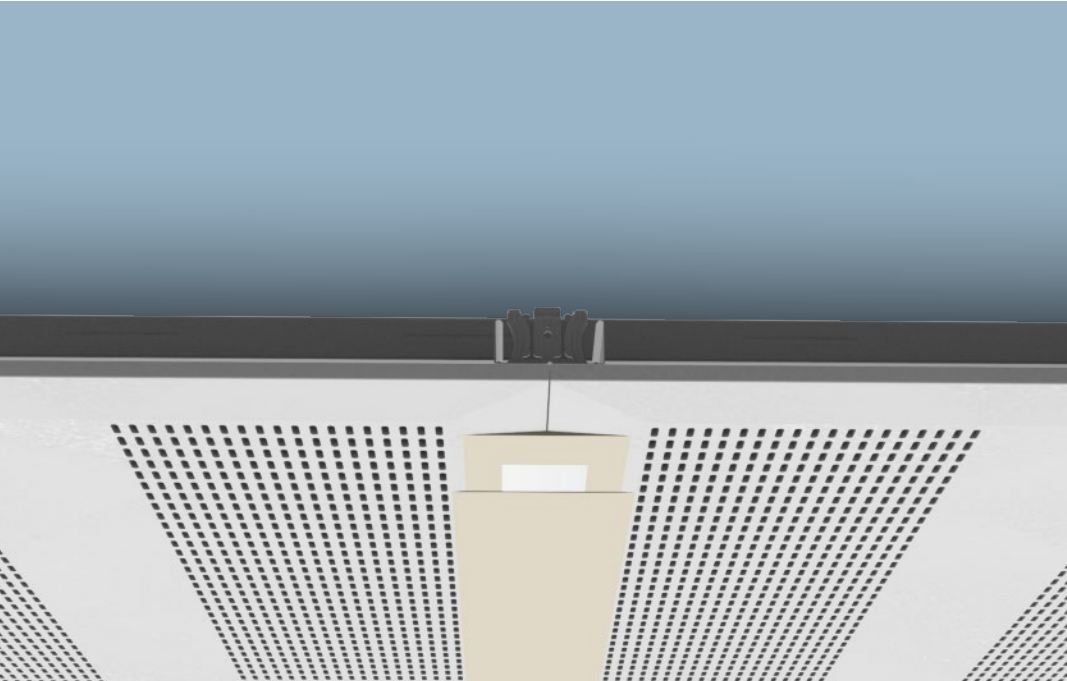
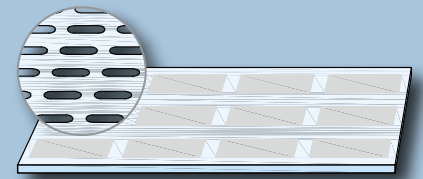


## Drywall Systems

# K721D.de

Product Data Sheet

2020-02



# Designpanel

Perforated gypsum board for acoustic absorption

## Product description

Designpanel is a perforated gypsum board compliant to EN 14190 with integral air-cleaning effect. The boards feature a white fibre fleece lining on the board rear. Without fibre fleece on request. They have a 4AK (4-sided tapered edge on the perimeter) edge design.

## Storage

Store boards on board pallets in a dry environment.

## Quality

In compliance with EN 14190, the product is subject to initial type testing and continuous factory production control and bears the CE marking.

## Properties and added value

- Sound absorbing
- Reaction to fire A2-s1, d0
- Easy application

- Jointing with joint tape
- Flat surfaces without protruding joints
- Bendable

## Field of application

Designpanel is primarily used for the cladding of wall and ceiling systems for the improvement of room acoustics and sound absorption and/or for the individual room design respectively.

It is also ideal to improve the indoor room climate due to their standard air cleaning effect.

Suitable for the following systems:

- Acoustic board ceilings
- Furrings with acoustical properties (in areas not subject to impacts).

Cleaneo Classic

## Application

### Application

Application should be undertaken in accordance to the applicable standards and acc. to the relevant System Data Sheets for drywall systems. The

four-sided tapered edge type (AK) is the prerequisite for jointing, resulting in a perfect surface with a high level of crack resistance. Jointing on all joints is performed using Uniflott and Fugendeckstreifen Kurt joint tape.

### Screw fastening

Screw onto CD Channels with counter-sunk screws SN 3.5 x 30 mm.

## Technical data

Description	Standard	Unit	Value
Board type Germany	DIN 18180	–	Slotted gypsum boards
Board type European	EN 14190	–	Procedures a), b), c), g)
Reaction to fire EN 13501-1	EN 14190	Class	A2-s1, d0
Edge design types	–	–	4-side tapered edge (4AK)
Width dimensional tolerance	EN 14190	mm	+1 / -1
Length dimensional tolerance	EN 14190	mm	+1 / -1
Thickness dimensional tolerance	EN 14190	mm	+0.5 / -0.5
Angularity dimensional tolerance	EN 14190	mm per m board width	+2 / -2
Thermal conductivity $\lambda$ (raw board)	EN ISO 10456	W/(m·K)	Approx. 0.23
Shrinkage and expansion per 1 % change of relative air humidity	–	mm/m	0.005 – 0.008
Shrinkage and expansion per 1 Kelvin change of temperature	–	mm/m	0.013 – 0.020
Long term temperature exposure (max. limit)	–	°C	≤ 50
Density	–	kg/m <sup>3</sup>	Approx. 800
Board weight (raw board)	DIN 18180	kg/m <sup>2</sup>	Approx. 10
Flexural breaking load longitudinal direction (raw board)	DIN 18180	N	≥ 610
Flexural breaking load transverse direction (raw board)	DIN 18180	N	≥ 210
Permissible bending radius, dry bending, concave and convex	–	m	≥ 3
Permissible bending radius, moistened bending, concave	–	m	≥ 2
Sound absorption coefficient	Refer to the following documents: <ul style="list-style-type: none"> <li>■ <a href="#">System data sheet D12.de Knauf Cleaneo Acoustic Board Ceilings</a></li> <li>■ <a href="#">Technical brochure AK02.de Room acoustics with Knauf - Data for planning</a></li> </ul>		

Product range

Description	Width x length mm	Thickness mm	Delivery weight kg/m <sup>2</sup>	Fibre fleece lining	Packaging unit	Material number	EAN
Designpanel 4AK Micro M2F 12.5	1200 x 2400	12.5	approx. 8.9	white	46 pieces / pallet 132.48 m <sup>2</sup> /pallet	00130075	5709636391531
Designpanel 4AK Tangent T3L1 12,5	900 x 2400	12.5	approx. 8.8	white	46 pieces / pallet 99.36 m <sup>2</sup> /pallet	00254185	5709636394228



### Observe safety data sheets!

For safety data sheets and CE marking see  
[pd.knauf.de](http://pd.knauf.de)



Videos for Knauf systems and products can be found under the following link:

[www.youtube.com/knauf](http://www.youtube.com/knauf)



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Technical Advisory Service:

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▶ [www.knauf.de](http://www.knauf.de)

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