

Knauf KTS Wind Protection Board

Material

Knauf KTS is fiberglass reinforced, impregnated and wind-resistant plasterboard.
 Colour of board liner – green.
 Rear side marking – blue.
 Long edges with paper lining – VK (tapered).
 Front edges – SK (cutted).

Board type

EN 520: EH2
 DIN 18180: GKBI

Storage

Store boards on wooden pallets in a dry environment.

Quality

In compliance with EN 520, the product is subject to initial type testing and continuous factory production control and is marked with the CE marking.

Dimensions

9,5 x 1200 x 2700 mm art. No. 260329
 9,5 x 1200 x 3000 mm art. No. 260451
 9,5 x 1200 x 2000/3000* mm art. No. 260257

* Customized lengths – to order

Application

KTS boards are used in exterior ventilated facade systems as wind-resistant cladding. It prevents the penetration of cold air (wind) into the inside of structures from outside, thus protecting thermal insulation material.

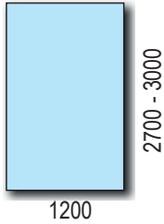
Combined with thermal insulation and internal finishing, the board provides effective sound insulation.

Properties

- Impregnated for reduced water absorption
- Provides wind protection hermetics
- Non-combustible
- Effectively improves exterior wall sound insulation
- Bending is possible
- Folding with mitring is possible
- Low expansion and shrinkage when climate conditions change
- Easy application

Technical Data

- Dimensions (mm)
Thickness: 9,5



- Edge types
- long edges

VK (tapered)



or

- front edges:

SK (cutted)

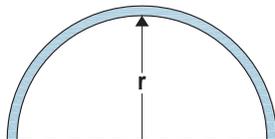


- Dimension tolerances (EN 520):

- Thickness: +0,5/-0,5 mm
- Width: +0/-4 mm
- Length: +0/-5 mm
- Angularity:
≤ 2.5 mm per m board width

- Minimum bending radius:

- Dry bending: $r \geq 2000$ mm
- Wet bending: $r \geq 500$ mm
(Note extended residence time due to hydrophobic core)



Board type:	GKBI EH2	DIN 18180 EN 520
Reaction to fire EN 13501-1:	A2-s1,d0 (B)	EN 520
Water vapour diffusion resistance μ :	15	EN ISO 12572
Thermal conductivity λ :	W/(m·K) 0,25	EN ISO 10456
Shrinkage and expansion		
■ per 1 % change of relative air humidity:	mm/m	0,005–0,008
■ per 1 Kelvin change of temperature:	mm/m	0,013–0,020
Total water absorption:	%	≤ 10 EN 520
Density:	kg/m ³	≥ 726 DIN 18180
Board weight:	kg/m ²	≥ 6,9 DIN 18180
Characteristic compressive strength $f_{c,90,k}$ (for out of plane loads):	N/mm ²	≥ 3,5 EN 1995-1-1
Characteristic bending tensile strength $f_{m,k}$ (for out of plane loads):		
- Longitudinal direction:	N/mm ²	≥ 7,7
- Transverse direction:	N/mm ²	≥ 3,1
Average E modulus E_{mean} (for out of plane loads)		EN 1995-1-1
- Longitudinal direction:	N/mm ²	≥ 2800
- Transverse direction:	N/mm ²	≥ 2200
Flexural breaking load		DIN 18180
- Longitudinal direction:	N	≥ 400
- Transversal direction:	N	≥ 160
Max. limit for long term temperature exposure: °C		≤ 50 (short-term ≤ 60)

Notes

Knauf KTS boards are not intended for direct and long term climatic exposure (to rain, snow).

The boards may be used in outdoor conditions with direct exposure to atmospheric conditions. However, if KTS plasterboards remain uncovered for more than a week, a protective structure for preventing direct moisture should be created.

Application

Application should be done acc. to the applicable standards and acc. to the Knauf Technical Data Sheets of the respective drywall system.

Safety instructions and disposal

See Safety Data Sheet.

Mounting

Knauf KTS boards are mountable to metal or wooden frames. Use Knauf TE 32 screws for fastening the boards to a timber substructure. Use Knauf RE 32 (profile thickness up to 0,89 mm) un Knauf FE 32 (profile thickness up to 2,68 mm) for fastening the boards to a metal substructure. The screw heads do not need to be screwed into the board.

The air gap (for ventilation) between Knauf KTS and the finishing coating must be 20 - 40 mm wide, and it must go from the bottom up to the cornice.

KTS boards are mounted on framework using screws, with the maximum distance between the assembly points 600 mm. The estimated distance of screw centres on sides is 150 mm,

while 300 mm in the middle area. Assembly points must be at least 10 cm from the edge of the board (lengthwise) or 15 mm (from the cut line).

There is no need to fill the joints. No additional treatment is required for joints that are installed on frame profiles or wooden studs. In other cases the joint must be handled with appropriate adhesive tape or special profiles: type H – for vertical joint, type T – for horizontal joint.

The outer wall structures must have sufficient air tightness, whilst ensuring the permitted level of moisture permeability. When the wall finishing is performed, the following principle should be observed – the water vapour protection level inside the thermal insulation material must be 5 times higher than outside the material (at ratio 5:1).

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