GKFI - DIN 18180
FH1 - EN 520 / ISIRI 14818

Drywall Systems | **2022-05**

K+ Gypsum Board GKFI (FH1)

Fire & Moisture resistance (FM) board for used in areas exposed to moiusture and humidity.

Product description

▪ Board type

DIN 18180:   GKFI

EN 520, ISIRI 14818:   FH1

▪ Colour of face: Green

▪ Colour of board liner: Grey-Green

▪ Back and Rear side marking: Red / black

Board Dimentions

Thickness :

12.5 / 15 / 18 mm

Width :

1200 mm

Length :

2400 / 2500 / 2700 / 2800 / 3000 mm

Products codes:

Refer to K Plus Pars Price List

Storage

Boards, should be stored on wooden pallets in a dry environment.

Fields of application

K+ Gypsum boards GKFI are used in all fields of interior works as economic cladding of drywall systems in humid and fire rated areas.

Systems:

▪ Fire rated partition systems

▪ Fire rated ceiling systems

▪ fire rated lining systems

▪ Incasements (with fire)

NOTE: Fire resistant gypsum boards are just part of a complete fire rated assembly. To achieve a certain fire rating on a K+ drywall assembly, the complete system components from K+ have to be used and the assembly must be installed according to K+ installation guidelines.

Properties and added value

▪ Easy, fast and dry application

▪ Non-combustible

▪ Bending is possible

▪ Low expansion and shrinkage when climate conditions change

▪ Lightweight constructions

▪ Good sound insulation performance Hydrophobic boards impregnated against absorption of moisture

▪ High fire protection performance

▪ Contains glass fibre additives to maintain the integrity of board for longer time periods than standard boards when exposed to fire A material that breathes and balances room climate and humidity levels
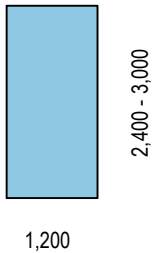
▪ Environmental friendly

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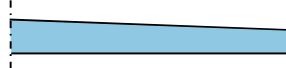
Technical data

▪ Board Format (in mm)

2,400 - 3,000

1,200

▪ Edge types

VK

AK

Technical Properties	9.5 mm	12.5 mm	15 mm	18 mm	Unit	Related standard
Type of board	GKFI					DIN 18180
	FH1					EN 520 ISIRI 14818
Thermal conductivity (λ)	0.25				W/(m.k)	ISIRI 14818
Thermal resistance	-	0.05	0.06	0.07	(m².k)/w	
Density	-	N/A	N/A	N/A	kg/m³	EN 520 / ISIRI 14818
Board weight	-	N/A	N/A	N/A	kg/m²	
Flexural breaking load –Longitudinal direction	-	≥550	≥650	≥774	N	
Water absorbtion	≤5				%	
Surface hardness	15.50		–	–	mm	
Width dimensional tolerance	+0 / -4 mm					EN 520
Lenght dimensional tolerance	+0 / -5 mm					
Thickness dimensional tolerance	+0.5 / -0.5 mm					
Angularity dimensional tolerance	≤ 2.5 mm per m board width					

Notes

K+ gypsum boards are manufactured from high quality gypsum, with a purity of not less than 95%. Stringent quality control procedures apply to the manufacturing process, in full complance with BS EN ISO 9001:2000 and BS1230: Part 1: 1985

Fire Performance : K+ gypsum boards are designed as class O materials under the building regulations 1991, Approved document B. They also meet BS476: Part 6: 1989, with fire propagation index 1=12 and under BS476: Part 7: 1987, surface spread of flame, are designated Class 1.

Specific K+ Drywall Systems are fire tasted in accordance with BS476: Part 20: 1987.

Acoustic Performance : Specific K+ Drywall Systems are tested in full accordance with BS EN ISO 140-3:1995 and the values calculated in accordance with BS EN 717-1:1996.

Vapor Performance : Vapor check gypsum boards have been tasted in accordance with BS3177: 1959 and exceed the minimum requirement of 15MN s/g to meet this standard.

Please contact our sales department for inquiries about storage and packing.