

Note on English translation

This is a translation of the technical data sheet valid in Iran.

All stated details and properties are in compliance with the regulations of the Iran 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.



GKFI - DIN 18180  
FH1 - EN 520 / ISIRI 14818

Drywall Systems

2022-05

## Gypsum Board GKFI (FH1)

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

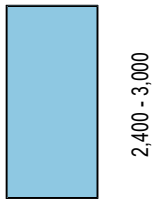
Product description	Fields of application	Properties and added value
<ul style="list-style-type: none"><li>Board type DIN 18180: GKFI EN 520, ISIRI 14818: FH1</li><li>Colour of face: Green</li><li>Colour of board liner: Grey-Green</li><li>Back and Rear side marking: Red / black</li></ul> <p><b>Board Dimentions</b></p> <p>Thickness : 12.5 / 15 / 18 mm</p> <p>Width : 1200 mm</p> <p>Length : 2400 / 2500 / 2700 / 2800 / 3000 mm</p> <p><b>Products codes:</b> Refer to K Plus Pars Price List</p> <p><b>Storage</b> Boards, should be stored on wooden pallets in a dry environment.</p>	<p>Gypsum boards GKFI are used in all fields of interior works as economic cladding of drywall systems in humid and fire rated areas.</p> <p><u>Systems:</u></p> <ul style="list-style-type: none"><li>Fire rated partition systems</li><li>Fire rated ceiling systems</li><li>fire rated lining systems</li><li>Incasements (with fire )</li></ul> <p>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.</p>	<ul style="list-style-type: none"><li>Easy, fast and dry application</li><li>Non-combustible</li><li>Bending is possible</li><li>Low expansion and shrinkage when climate conditions change</li><li>Lightweight constructions</li><li>Good sound insulation performance Hydrophobic boards impregnated against absorption of moisture</li><li>High fire protection performance</li><li>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</li><li>Environmental friendly</li></ul>

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

## Technical data

### Board Format (in mm)



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 FH1					DIN 18180 EN 520 ISIRI 14818
Thermal conductivity (λ)	0.25				W/(m.k)	ISIRI 14818
Thermal resistance	-	0.05	0.06	0.07	(m <sup>2</sup> .k)/w	
Density	-	N/A	N/A	N/A	kg/m <sup>3</sup>	EN 520 / ISIRI 14818
Board weight	-	N/A	N/A	N/A	kg/m <sup>2</sup>	
Flexural breaking load -Longitudinal direction	-	≥550	≥650	≥774	N	
Water absorption	≤5				%	
Surface hardness		15.50	-	-	mm	EN 520
Width dimensional tolerance	+0 / -4 mm					
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

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 compliance with BS EN ISO 9001:2000 and BS1230: Part 1: 1985

Fire Performance : 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 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.

