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GYPSUM BOARD

Knauf FR

Fire Resistant Board

Product-Data-Sheet

06/2024

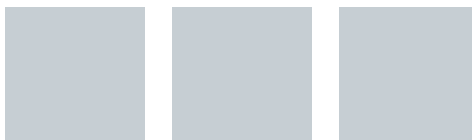


A Skin for the Wall

The secret of a balanced room climate lies primarily in balanced humidity levels. Once again nature has presented us with a highly effective moisture management system in gypsum.

The gypsum can absorb a lot of humidity through its open and crystalline pores and then automatically releases this moisture when a room becomes too dry. This works as often as necessary, and without consuming energy.

Certificates



Build on us.

Product Description

Knauf Fire Resistant Board (FR) offers an improved fire protection when used as part of a complete fire rated Knauf System. Knauf Fire Resistant Board (FR) is made from an aerated gypsum core with glass fiber additives to maintain the integrity of board for longer time when exposed to fire, and has premium paper liners on each side of the board. The board is ideally suited to receive Knauf jointing finishes before decoration.

Areas of Application

Knauf Fire Resistant Board (FR) is suitable for drywall partitions, wall linings, ceilings, and shaftwall applications where superior Fire Protection is required.

Compliance Standard

BS EN 520:2004+A1:2009 : Standard Specification for Gypsum Board



- Type D: Gypsum plasterboard with controlled density.
- Type F: Gypsum plasterboard with improved core adhesion at high temperature.

BS EN 13501-1:2007+A1:2009: Reaction to Fire Characteristics

Key Benefits

- Strong and versatile
- Enhanced fire performance
- Choice of tapered or square edge
- Fully recyclable
- Quick and easy to install
- Multiple layers can be used for added performance

Appearance

Color	Pink Smooth Paper Liner
Type	 Square Edge (SE)
Type	 Tapered Edge (TE)

Performance Table

Thickness (mm)	Reaction to fire Classification (BS EN 13501-1)		Thermal Conductivity (W/mk)	Board Density (Kg/m³)
	Smoke Production	Flaming Droplets		
12.5	S1*	d0*	0.25	816
15	S1*	d0*	0.25	833

*S: Smoke Production (S1 - little or no smoke during the exposure to fire)
*d: Flaming Droplets (d0 - no flaming droplets during the exposure to fire)

Technical Information

Dimensions, Weights, and Physical Properties

Thickness (mm)	Width (mm)	Length (mm)	Weight (kg/m ²)	Flexural Strength Transverse (N)	Flexural Strength Longitudinal (N)
12.5	1200	2400*	10.20	> 210	> 550
	1200	3000*	10.20	> 210	> 550
15	1200	2400*	12.50	> 250	> 650
	1200	3000*	12.50	> 250	> 650

*Special sizes are available upon request.

Sustainability

Recyclability-The product can be recycled, make sure it has no or minimal contamination from non-gypsum based materials as this will affect its recyclability.

Substances of very high Concern (SVHC)-This product do not contain any substance of high concern.

Volatile Organic Compound Content (VOC)-This product contains < 0.05 mg/kg VOC content.

Asbestos Content: This product does not contain any asbestos content.

Storage and Handling

Product must be stored flat and on a surface strong enough to support them. Keep boards dry at all times.

Refer to the HSE Manual Handling Operations Regulation for best practice guidance.

Packaging

Product is stacked on non-recycled chipboard bearers and is not recyclable but it can be returned to Knauf.

Shelf Life/Service Life

Service life of this product is 60 years and/or the lifetime of the building.

Disposal

Disposal should be in accordance with local authority requirements. Keep gypsum based products in their own recycling area to minimise contamination from non-gypsum based products.

Health & Safety

Please refer to our Safety Data Sheet for guidance on personal protection equipment required for the handling and installation of this

Application /Installation

Typically installed as a part of a partition system, wall lining and ceiling system with Knauf fixings, jointing, taping and finishing products.

Use Knauf plasterboard screws at a distance of 300mm on horizontal joints and 10mm from bound edge and 13mm from cut edges in from the edge of the board. Knauf Readygips with Knauf Joint Tape can be used to finish the joints.

Should an alternative Gypsum or surface finish be required, seek guidance from the supplier on application. The type and number of layers of board used will influence the structural, fire, acoustic and thermal performance of the system. All products must be installed in accordance with Knauf's recommendations.

Additional Documentation

Material Safety Datasheet

EPD / HPD

Customer Service

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Plant Address

Plot no - RY-PH02-M3-008
Raysut - WGS-84-Zone 39
Salalah Free Zone
Salalah, Dhofar, Oman



Observe safety data sheet!
For safety data sheets and CE labelling see
www.Knauf.com



Tender texts for all Knauf systems and products with export functions for Word and PDF.



Videos for Knauf systems and products can be found under the following link:
youtube.com/knauf



All information and documents from Knauf GCC are always up-to-date,

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Subject to technical changes. The current edition applies. The information contained herein corresponds to our current state of the art. The generally recognised rules of construction technology, relevant standards, guidelines and trade regulations must be observed by the contractor in addition to the processing instructions. Our warranty relates only to the flawless quality of our material. Consumption, quantity and execution data are empirical values that cannot be transferred without further ado in the event of deviating conditions. All rights reserved. Changes, reprinting and photomechanical and electronic reproduction, even in extracts, require our express authorisation.

The structural, static and physical properties of Knauf systems can only be guaranteed if only Knauf system components or products recommended by Knauf are used.