



# Fire Resistant Gypsum Board (FRDF)

Technical Data Sheet 12/2023

## Fire Resistant Gypsum Board (FRDF)

Fire resistant gypsum board with enhanced density

### Product Description

Gypsum board which has a smooth surface and an increased density is reinforced with fiber glass to enhance fire resistance quality. Front face covered with pink, back face covered with grey paper.

### Storage

Boards should be stored on pallets in a dry environment. If the boards are stored inside, max. 6 pallets on each other; outside max. 5 pallets on each other. Gypsum boards should be stored so as to prevent damage to the front faces of each boards during packaging. If the boards are stored outside, they must be covered with nylon and etc.

### Standard

TS EN 520 + A1 - Type DF

### Fields of Application

All fields of interior works with enhanced fire protection.

- Partition walls
- Suspended ceilings
- Shaft walls
- Drywall linings

### Properties

- Fire resistance
- Easy application
- Time saving
- High surface quality

### Technical Data

Description	Unit	12,5 mm	Standard
Board type	-	Type DF	TS EN 520+A1
Reaction to fire	class	A2-s1,d0	TS EN 520+A1
Weight	kg/m <sup>2</sup>	11 - 12	-
Long edges	-	Tapered edges 	-
Front edges	-	Cut edges 	-
Width dimensional tolerance	mm	+0 / -4	TS EN 520+A1
Length dimensional tolerance	mm	+0 / -5	TS EN 520+A1
Thickness dimensional tolerance	mm	+0,5 / -0,5	TS EN 520+A1
Angularity dimensional tolerance (for 1 m board width)	mm	≤ 2,5	TS EN 520+A1
Bending radius, dry bending	mm	r ≥ 2750	TS EN 520+A1
Bending radius, wet bending	mm	r ≥ 1000	TS EN 520+A1
Thermal conductivity λ	W/(m·K)	0,25	EN 12524
Water vapour resistance factor, dry	μ	10	EN 12524
Water vapour resistance factor, wet	μ	4	EN 12524
Core cohesion	dk	≥ 15	TS EN 520+A1
Density	kg/m <sup>3</sup>	≥ 800	TS EN 520+A1
Flexural breaking load longitudinal direction	N	≥ 550	TS EN 520+A1
Flexural breaking load transverse direction	N	≥ 210	TS EN 520+A1

### Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m <sup>2</sup> )	Packaging Unit (pcs./pallet)	Material Number
Fire Resistant Gypsum Board (FRDF) 12,5 mm	1200	2500	11 - 12	50	477354

## System Performance Values

Performance values as sound insulation, fire resistance etc. may differ acc. to the drywall system to be applied. Please check the performance values of the drywall systems;

[Knauf Technical Website](#)  
[Document Center](#)

## Application

Application should be done acc. to the applicable standards (TS 1475) and acc. to the Knauf Technical Brochures of the respective drywall system.