

Fire Resistant Gypsum Board (FR)

Technical Data Sheet 12/2023

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Fire resistant gypsum board

Product Description

Smooth, flexible and light-weight gypsum board, reinforced with fiber glass to provide high fire resistance. 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 F

Fields of Application

All fields of interior works with enhanced fire protection.

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

Properties

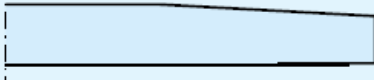
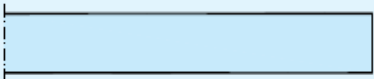
- Fire resistance
- Easy application
- Time saving
- High surface quality

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Technical Data

Description	Unit	12,5 mm	15 mm	18 mm (HRK*)	Standard
Board type	-	Type F	Type F	Type F	TS EN 520+A1
Reaction to fire	class	A2-s1,d0	A2-s1,d0	A2-s1,d0	TS EN 520+A1
Weight	kg/m ²	9,8-10,8	11,7-12,7	14 - 15	-
Long edges	-	Tapered edge 			-
Front edges	-	Cut edge 			-
Width dimensional tolerance	mm	+0 / -4	+0 / -4	+0 / -4	TS EN 520+A1
Length dimensional tolerance	mm	+0 / -5	+0 / -5	+0 / -5	TS EN 520+A1
Thickness dimensional tolerance	mm	+0,5 / -0,5	+0,5 / -0,5	+0,72 / -0,72	TS EN 520+A1
Angularity dimensional tolerance (for 1 m board width)	mm	≤ 2,5	≤ 2,5	≤ 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	0,25	0,25	EN 12524
Water vapour resistance factor, dry	μ	10	10	10	EN 12524
Water vapour resistance factor, wet	μ	4	4	4	EN 12524
Core cohesion	min.	≥ 15	≥ 15	≥ 15	TS EN 520+A1
Flexural breaking load longitudinal direction	N	≥ 550	≥ 650	≥ 774	TS EN 520+A1
Flexural breaking load transverse direction	N	≥ 210	≥ 250	≥ 302,4	TS EN 520+A1

* Herköl Gypsum Board (HRK)

Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m ²)	Packaging Unit (pcs./pallet)	Material Number
Fire Resistant Gypsum Board (FR) 12,5 mm	1200	2500	9,8-10,8	50	24494
	1200	2600	9,8-10,8	50	24495
	1200	2700	9,8-10,8	50	115438
	1200	2800	9,8-10,8	50	24496
	1200	2900	9,8-10,8	50	133251
	1200	3000	9,8-10,8	50	24497
Fire Resistant Gypsum Board (FR) 15 mm	1200	2500	11,7-12,7	30	133072
	1200	2800	11,7-12,7	30	133074
Fire Resistant Gypsum Board (FR) 18 mm (HRK*)	1200	2500	14 - 15	30	88296

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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.

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