



# Moisture and Fire Resistant Gypsum Board (WRFR)

Technical Data Sheet 12/2023

## Moisture and Fire Resistant Gypsum Board (WRFR)

Impregnate and fire resistant gypsum board

### Product Description

Smooth,flex and light-weight gypsum board with increased water repellency and fire resistance properties. 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 HF

### Fields of Application

All fields of interior works with enhanced fire protection in moderately high humidity rooms (e.g. domestic bathrooms)

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

### Properties

- Impregnated for reduced water absorption
- High fire resistance
- Ceramic tile installation opportunity
- Easy application
- Time saving
- High surface quality

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Impregnate and fire resistant gypsum board



## Technical Data

Description	Unit	12,5 mm	15 mm	18 mm (HRK*)	Standard
Board type	-	Type HF	Type HF	Type HF	TS EN 520+A1
Reaction to fire	class	A2-s1,d0	A2-s1,d0	A2-s1,d0	TS EN 520+A1
Weight	kg/m <sup>2</sup>	9,8-10,8	11,7-12,7	14 - 15	-
Long edges	-	Tapered edges 			-
Front edges	-	Cut edges 			-
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
Total water absorption (Type H2)	%	≤ 10	≤ 10	≤ 10	TS EN 520+A1
Water absorption (Type H2)	g/m <sup>2</sup>	≤ 220	≤ 220	≤ 220	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

\*Herkul Gypsum Board (HRK)

## Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m <sup>2</sup> )	Packaging Unit (pcs./pallet)	Material Number
Moisture and Fire Resistant Gypsum Board (WRFR) 12,5 mm	1200	2500	9,8-10,8	50	88338
	1200	2600	9,8-10,8	50	133334
	1200	2700	9,8-10,8	50	133335
	1200	2800	9,8-10,8	50	88339
	1200	2900	9,8-10,8	50	201900
	1200	3000	9,8-10,8	50	88340
Moisture and Fire Resistant Gypsum Board (WRFR) 15 mm	1200	2500	11,7-12,7	30	133337
	1200	2800	11,7-12,7	30	148560
Moisture and Fire Resistant Gypsum Board (WRFR) 18 mm (HRK*)	1200	2500	14 - 15	30	146975

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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;

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### 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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