

Mouldboard® (MWFR)

Technical Data Sheet 12/2023

Mouldboard® - Moisture and Fire Resistant Gypsum Board (MWFR)

Mould, fire resistant and impregnated gypsum board

Product Description

Smooth, flexible and light weight gypsum board with water repellency, mould and fire resistant properties, used in all wet and high humidity areas. Front face covered with green, back face 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 FH1

Fields of Application

All fields of interior works with enhanced fire protection in moderately high humidity and mould risk areas (e.g. domestic bathrooms, cellar)

- Suspended ceilings
- Partition walls
- Wall claddings
- Shaft walls
- Humid areas

Properties

- Impregnated for reduced water absorption
- Mould resistance
- Fire resistance
- Ceramic tile installation opportunity
- Easy application
- Time saving

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Technical Data

Description	Unit	12,5 mm	15 mm	Standard
Board type	-	Type FH1	Type FH1	TS EN 520+A1
Reaction to fire	class	A2-s1,d0	A2-s1,d0	TS EN 520+A1
Weight	kg/m ²	10 - 11	12 - 13	-
Long edges	-	Tapered edges 		-
Front edges	-	Cut edges 		-
Mould resistance	score	10*	10*	ASTM D 3273
Width dimensional tolerance	mm	+0 / -4	+0 / -4	TS EN 520+A1
Length dimensional tolerance	mm	+0 / -5	+0 / -5	TS EN 520+A1
Thickness dimensional tolerance	mm	+0,5 / -0,5	+0,5 / -0,5	TS EN 520+A1
Angularity dimensional tolerance (for 1 m board width)	mm	≤ 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	EN 12524
Water vapour resistance factor (dry)	μ	10	10	EN 12524
Water vapour resistance factor (wet)	μ	4	4	EN 12524
Core cohesion	minutes	≥ 15	≥ 15	
Total water absorption (Type H2)	%	≤ 5	≤ 5	TS EN 520+A1
Water absorption (Type H2)	g/m ²	≤ 180	≤ 180	TS EN 520+A1
Flexural breaking load longitudinal direction	N	≥ 550	≥ 650	TS EN 520+A1
Flexural breaking load transverse direction	N	≥ 210	≥ 250	TS EN 520+A1

* *No mold growth.

Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m ²)	Packaging Unit (pcs./pallet)	Material Number
Mouldboard® - Moisture and Fire Resistant Gypsum Board (MWFR) 12,5 mm	1200	2500	10 - 11	50	280650
Mouldboard® - Moisture and Fire Resistant Gypsum Board (MWFR) 15 mm	1200	2500	12 - 13	30	436232

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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