

# Promat

## MASTERBOARD® Construction board



[www.promat-see.com](http://www.promat-see.com)





## Product description

A calcium silicate board reinforced with selected fibres and fillers. It is formulated without inorganic fibres and does not contain formaldehyde, resistant to the effects of moisture, will not physically deteriorate when used in damp or humid conditions. It is produced with quality assurance according to the standard ISO 9001.

## Fields of application

Suitable for use in a wide range of internal and semi-exposed applications (types Y, Z<sub>1</sub>, Z<sub>2</sub>) like moisture resistant ceilings and wall systems specifically for use in swimming pools and other high humidity environments, also suitable for smoke extraction ducts.

## Technical data and properties

Construction material class	A1, EN 13501-1
Surface properties	front side smooth and unsanded, back side sanded
Storage	store in a dry location
Nominal dry density (average)	approx. 1000 kg/m <sup>3</sup>
Alkalinity (pH-value)	approx. 7 - 10
Thermal conductivity λ at 20°C	approx. 0,22 W/m.K
Coefficient of expansion (20-100°C)	approx. 9 x 10 <sup>-6</sup>
Nominal moisture content (ambient)	approx. 6 %

## Typical mechanical properties

Bending strength $\sigma_{break}$	Average, dry	8,5 N/mm <sup>2</sup> (in the longitudinal direction of the board)
Modulus of elasticity E	Average, dry	6500 N/mm <sup>2</sup>
Tensile strength $Z_{break}$	Average, dry	4,0 N/mm <sup>2</sup> (in the longitudinal direction of the board)
Compressive strength $\perp$	Average, dry	7,0 N/mm <sup>2</sup> (perpendicularly to the board surface)

## Formats and weights

		Board thickness and weight						
Standard formats	2500 mm x 1200 mm	6 mm	8 mm	9 mm	10 mm	12 mm	15 mm	20 mm
Dimensional tolerance	thickness	±0,5 mm			±1,0 mm			±1,5 mm
	length and width	±3,0 mm						
Board weight [kg/m <sup>2</sup> ]	in dry state	approx. 6,2	approx. 8,3	approx. 9,4	approx. 10,4	approx. 12,4	approx. 15,5	approx. 20,8
	+20°C, 50% rel. hum.	approx. 6,7	approx. 8,9	approx. 10,1	approx. 11,3	approx. 13,4	approx. 16,9	approx. 22,5

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