

m² Plasterboard - 10 mm

Plasterboard, also known as gypsum board, is a wall and ceiling lining material manufactured from gypsum, water and paper. A gypsum-based plaster is sandwiched between two layers of paper. The plaster often contains a paper or fibreglass fibre as well as various additives. After the plaster sets it is then dried in a large drying chamber. It is then cured at high temperatures before being cut to size.

Plasterboard is used to provide a lining for internal walls and ceilings. A variety of product types are available, including acoustic-rated, fire-rated and moisture-resistant plasterboard. It is typically finished with paint once installed. It has a relatively low durability and is thus easily damaged, but can usually be repaired with gypsum plaster products. It comes in standard sizes, typically 1 200 × 2 400 mm, 1 200 × 4 800 mm and 1 200 × 6 000 mm and 10 or 13 mm thick. The 13 mm board is generally used in commercial applications due to its better durability and acoustic properties.

Category Concrete and plaster products

Type Plaster

Functional unit m²

Specific heat 1 225 J/(kg·K)

Density 570 kg/m³

Common uses
Internal wall lining, internal ceiling lining

Process name
Plasterboard 10 mm, at regional store/AU U

Input-output sector
Plaster and Concrete Product Manufacturing

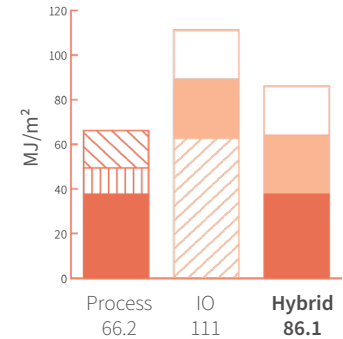
Further information
doi.org/10.26188/5da556516b6e3

Material variations

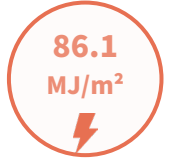
	Unit	Energy (MJ/unit)	Water (L/unit)	GHG emissions (kgCO ₂ e/unit)
Plasterboard - 10 mm	m ²	86.1	85.6	5.8
Plasterboard - 13 mm	m ²	95.7	97.9	6.5

TOP THREE INPUTS

- 5.8% Road Transport
- 5.2% Structural Metal Product Manufacturing
- 4.8% Cement, Lime and Ready-Mixed Concrete Manufacturing

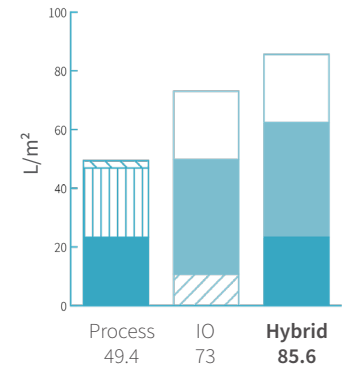


ENERGY

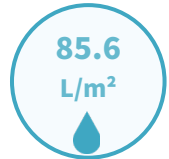


TOP THREE INPUTS

- 8.8% Tanned Leather, Dressed Fur and Leather Product Manufacturing
- 5.1% Structural Metal Product Manufacturing
- 3.9% Meat and Meat product Manufacturing

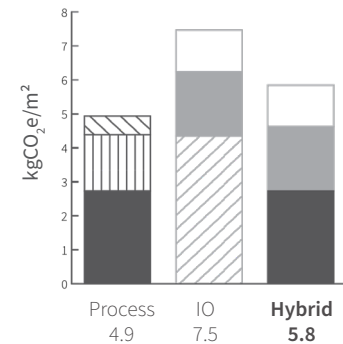


WATER



TOP THREE INPUTS

- 6.6% Cement, Lime and Ready-Mixed Concrete Manufacturing
- 5.5% Structural Metal Product Manufacturing
- 2.7% Road Transport



GREENHOUSE GAS EMISSIONS

