

kg Fibre cement weatherboard

Fibre cement weatherboards are a non-structural material manufactured from Portland cement, cellulose fibres and water. Boards generally come in 4 200 mm lengths, in widths from 150 to 300 mm and in thicknesses ranging from 7.5 mm to 16 mm. They can be easily cut to size on site. Thicker boards provide superior impact resistance while thinner boards are typically used in situations where impact resistance is not as crucial. They come in a range of textured finishes.

Fibre cement weatherboards are used as an external wall cladding. Each board is installed to overlap the board below, and as such, the effective wall coverage area is typically 80-90% of the actual area of boards used.

Thermal and acoustic performance is generally poor and additional insulation is usually needed. However, it is termite and rot resistant and has very high fire resistance properties.

Category Concrete and plaster products
Type Fibre cement
Functional unit kg
Specific heat 832 J/(kg·K)
Density 1 445 kg/m³

Common uses
 External wall cladding

Process name
 Fibre cement facing tile, at plant/CH U/AusSD U

Input-output sector
 Other Non-Metallic Mineral Product Manufacturing

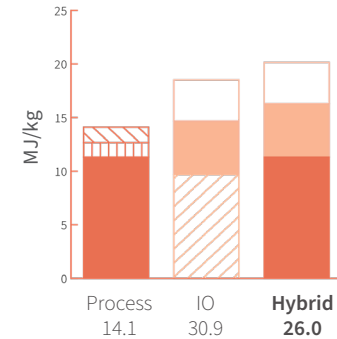
Further information
doi.org/10.26188/5da55463adae0

Material variations

	Unit	Energy (MJ/unit)	Water (L/unit)	GHG emissions (kgCO ₂ e/unit)
Fibre cement weatherboard	kg	26.0	31.3	2.2
205 × 7.5 mm - per m ² wall	m ²	304	365	26
230 × 7.5 mm - per m ² wall	m ²	284	341	24.2
300 × 7.5 mm - per m ² wall	m ²	294	354	25.2
150 × 16 mm - per m ² wall	m ²	549	660	46.9
180 × 16 mm - per m ² wall	m ²	549	660	46.9

TOP THREE INPUTS

- 30.9%** Fibre cement facing tile, large format, at plant/CH U/AusSD U
- 12.5%** Fibre cement facing tile, small format, at plant/CH U/AusSD U
- 9.9%** Road Transport

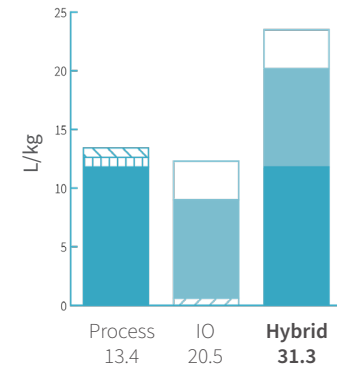


ENERGY



TOP THREE INPUTS

- 25.6%** Fibre cement facing tile, large format, at plant/CH U/AusSD U
- 13.3%** Non Metallic Mineral Mining
- 12.1%** Fibre cement facing tile, small format, at plant/CH U/AusSD U

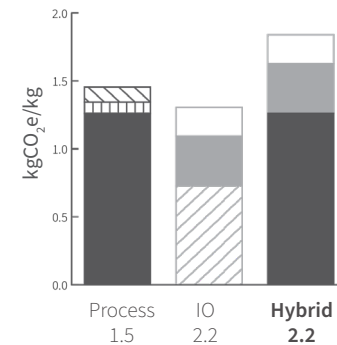


WATER



TOP THREE INPUTS

- 39.6%** Fibre cement facing tile, large format, at plant/CH U/AusSD U
- 17.1%** Fibre cement facing tile, small format, at plant/CH U/AusSD U
- 6.7%** Non Metallic Mineral Mining



GREENHOUSE GAS EMISSIONS

