m³

Particleboard

Particleboard, also known as chipboard, is a manufactured timber product made from reconstituted wood particles. Unlike OSB, the particles are randomly orientated, and the board has uniform properties in each direction. Due to this, it is a relatively stable product, and offers a cheaper alternative to other timber sheet products. It is typically weaker than plywood and highly susceptible to water damage, warping and expansion, and is generally not situatable for outdoor applications.

Small wood particles are layered with a formaldehyde-based resin, or melamine-based resin (for increased water resistance). Other additives are commonly included to increase resistance to insect damage, fire, and water.

Particleboard is commonly used for low cost joinery and dry area construction. It is often painted, or covered with a timber veneer or melamine coating to increase water resistance, durability and aesthetic qualities.

Manufactured timber product

Functional unit

Type

Specific heat 1 300 J/(kg·K)

 m^3

Density 680 kg/m³

Common uses

Interior joinery, walling, flooring

Process name

Particle board, indoor use, at plant/RER U/AusSD U

Input-output sector

Other Wood Product Manufacturing

Further information

doi.org/10.26188/5da5562dbfbf9

Material variations	Unit	0,		GHG emissions (kgCO₂e/unit)
Particleboard - indoor	m³	12 717	10 720	696
Particleboard outdoor	m³	15 879	20 491	813

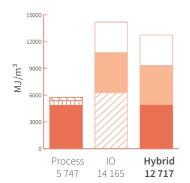


TOP THREE INPUTS

18.0% Road Transport







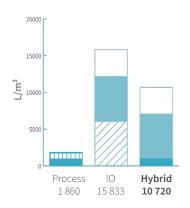


TOP THREE INPUTS

3.6% Water Supply, Sewerage and Drainage Services







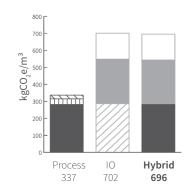


TOP THREE INPUTS

10.9% Road Transport

2.1% Wholesale Trade

1.8% Other Fabricated Metal Product manufacturing



GREENHOUSE GAS EMISSIONS 696 kgCO₂e/m³