

m³ OSB sheet

Oriented strand board (OSB) is a manufactured timber product similar to particleboard. It is made from timber fibres that are bonded together in a particular orientation. The orientation varies across the inner and outer layers, to provide increased dimensional stability. It has superior structural capabilities compared with particleboard, and is more cost-effective than plywood. Boards can be manufactured to have a high strength and rigidity, depending on the required application.

Strands of timber are bonded together using thermal compression. Adhesive resins such as urea-formaldehyde (non-waterproof) or melamine-formaldehyde (water resistant) are used to bond the strands together, often combined with wax. OSB boards can utilise timber offcuts and have very low timber wastage.

OSB boards are commonly used as an alternative for plywood sheet products.

Category *Timber products*

Type *Manufactured timber product*

Functional unit *m³*

Specific heat *1 880 J/(kg·K)*

Density *607 kg/m³*

Common uses *Timber sheets, walling, roofing*

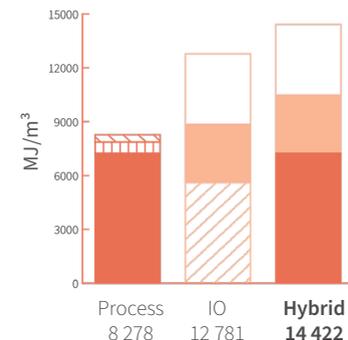
Process name *Oriented strand board, at plant/ RER U/AusSD U*

Input-output sector *Other Wood Product Manufacturing*

Further information doi.org/10.26188/5da5561c22195

TOP THREE INPUTS

- 35.0%** Phenolic resin, at plant/ RER U/AusSD U
- 13.8%** Road Transport
- 1.8%** Paraffin, at plant/RER U/AusSD U

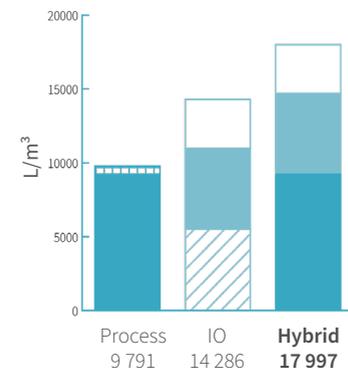


ENERGY

14 422 MJ/m³

TOP THREE INPUTS

- 48.4%** Phenolic resin, at plant/ RER U/AusSD U
- 1.9%** Water Supply, Sewerage and Drainage Services
- 1.3%** Wholesale Trade

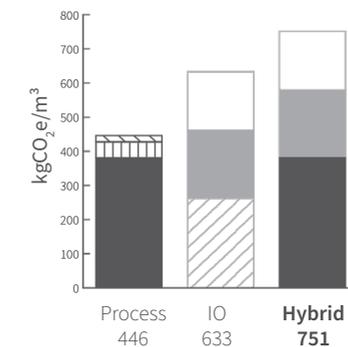


WATER

17 997 L/m³

TOP THREE INPUTS

- 28.3%** Phenolic resin, at plant/ RER U/AusSD U
- 8.7%** Road Transport
- 2.5%** Wood chips, from industry, softwood, burned in furnace 300kW/CH U/AusSD U



GREENHOUSE GAS EMISSIONS

751 kgCO₂e/m³

