m³

MDF sheet

Medium density fibreboard (MDF), is a manufactured timber product made from reconstituted wood fibres. It is denser than particleboard or plywood, and has a smooth finish. MDF is commonly covered with timber veneer, vinyl, or a melamine paper coating, providing increased durability, water resistance and aesthetic qualities. MDF is cost-effective when compared with other sheet materials, and is typically stronger than particleboard.

MDF is created by combining residual wood fibres with a resin binder and wax, and pressing at a high temperature. Urea-formaldehyde is commonly used for non-waterproof applications, and melamine urea formaldehyde for increased water resistance.

MDF is commonly used for joinery and interior purposes. Depending on the resin used, it can have a moderate resistance to water, and is generally not suited to exterior applications.

Category	Timber products			
Туре	Manufactured timber product			
	9			

Functional m³ unit

Specific heat 1 300 J/(kg·K)

Density $684 \, kg/m^3$

Common uses

Interior joinery, walling, flooring

Process name

Medium density fibreboard, at plant/RER U/AusSD U

Input-output sector

Other Wood Product Manufacturing

Further information

doi.org/10.26188/5da555b3e3bf9

Material variations	Unit	Energy (MJ/unit)		GHG emissions (kgCO ₂ e/unit)
MDF sheet	m³	15 016	8 471	899
Melamine-coated MDF board - 16 mm	m²	344	283	18.7
Melamine-coated MDF board - 18 mm	m²	390	323	21.3
Melamine-coated MDF board - 25 mm	m ²	557	453	30.5

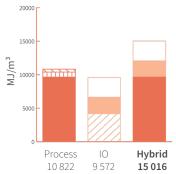
EPiCDatabase

TOP THREE INPUTS









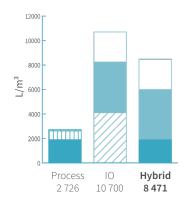


TOP THREE INPUTS











TOP THREE INPUTS

Natural gas, burned in industrial furnace >100kW/RER U/AusSD U





