Softwood

Timber comes in a wide range of varieties and sizes. It is used **C** for structural and non-structural purposes, and can vary significantly in density, grain texture, workability, usage and cost. It is lightweight, easy to handle and transport, and has a good strength to weight ratio. It is typically divided into softwood varieties, such as Pine, Cypress and Spruce and hardwood varieties such as Victorian Ash, Blackbutt and Oak. The term hardwood and softwood is a botanical distinction, and not an indication of timber strength or density. The density of timber is highly dependent on the species, varying from 120 kg/m³ to 1 300 kg/m³ or higher.

Softwood generally has a lower density and better workability than hardwood varieties. It is comparably cheap due to the fast growing nature of many softwood plantation varieties. It is widely used for timber framing purposes, feature walls, door and windows.

Commercial timber products are typically kiln, or air-dried. Kiln/ oven drying is done in a controlled environment over a relatively short time period. It produces a uniformly dried, high quality product that generally kills any fungi and insects in the wood. Air-drying is done over extended periods of time, and does not require any fuel inputs. It is cost effective, but needs to be carefully managed to reduce cracking and ensure consistent drying.

Material variations	Unit	0,		GHG emissions (kgCO2e/unit)
Softwood air-dried	m ³	9 392	13 091	549
Softwood kiln-dried	m ³	9 704	13 181	583



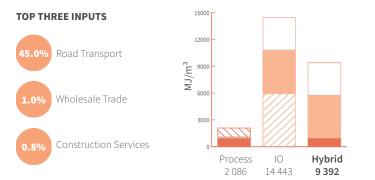
Category	Timber products	
Туре	Softwood	
Functional unit	m ³	
Specific heat	1 380 J/(kg·K)	
Density	510 kg/m³	
Common uses Beams, columns, framing, joinery, flooring, walling, furniture, cladding, doors, windows		

cladding, doors, windows Process name

Sawn timber, softwood, planed, air dried, at plant/RER U/AusSD U

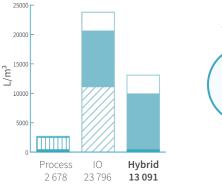
Input-output sector Sawmill Product Manufacturing

Further information doi.org/10.26188/5da5578416cc9











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TOP THREE INPUTS 600 i 500 25.2% Road Transport $kgCO_2e/m^3$ 400 Sawn timber, softwood, 300 18.1% raw, air dried, u=20%, at plant/RER U/AusSD U Construction Services

