



MATERIAL CONSIDERATIONS

BRETTSTAPEL

Disclaimer: The information contained in this datasheet was supplied by the company that supplied this product.

Architecture + Design Scotland
Material Considerations, Level 2, The Lighthouse, Glasgow, G1 3NU
www.ads.org.uk/sust

Related Products:

Other companies that manufacture and supply this product are:

www.brettstapel.org

www.wood100.com

01475 568790

Miles Montgomery

Wood 100

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Name of Product:	Brettstapel
Description of product:	A solid timber construction system, it has no glues or nails. Fabricated from softwood timber posts connected with hardwood timber dowels which have a moisture content lower than the posts; over time the dowels expand locking the timber together.
Geographic availability (locally/Scotland/UK/ Europe/Worldwide):	Europe
Origin / Location of manufacturing / Processing plant:	Germany
Cost per unit (£):	Price on application
Application and typical uses of the product:	This relatively simple method of construction does not use glues or nails and can be used to make beautiful, low carbon, healthy buildings that are quick and easy to build. With Brettstapel normally manufactured entirely out of untreated timber, it is important to stress that glue is not necessary. The exclusion of glue and nails (which are seen in other solid timber systems) means a healthier indoor air quality can be achieved, while the timber itself locks in vast amounts of carbon dioxide without emitting harmful toxins found in other materials.
Breakdown of product (% of each component part):	100% timber (softwood boards with hardwood dowels)
Embodied energy (Processing plant emissions). How much energy is used to produce the product? kWh per annum or kgCO₂:	Data not supplied
Thermal conductivity (k) W/m°C or Thermal transmittance (U-value) - W/m²°C (if applicable):	k = 0.16 W/m°C
Reliability/ Maintenance: Frequency (times per annum) and Associated costs (£ per annum):	None
Lifespan of materials if maintained correctly (years):	Data not supplied
Availability - abundance and supply of raw materials:	Abundant
Availability - supply vs demand. Turnaround in production of material (quick/medium/slow):	Around 6 - 8 weeks
Does the material need to be processed further or treated by the user:	Flame retardant required in exposed interior surface. Organic flame retardants are available.
Installation - how complex is installation, is a specialist contractor required? (issues/risks):	Crane required
Types, textures, specifications and colours currently available:	Structurally, manufacturers can produce panels up to 12-15metres in length, although a seven-metre span is more readily achievable with a 210-250mm deep panel. 3 finishes available - Industrial, standard and fine.