



## Technical Information

### ecoHAB® - Summary

High-quality building material made from renewable, plant-based raw materials for dry construction, room dividers, trade fair construction, container construction, cladding and many other applications



### Raw Materials (> 90% biological fractions)

1.	Natural fiber fleece consisting of hemp, flax or kenaf
2.	Binding agent consisting of acrylate resin, free of formaldehydes and phenols
3.	Panel core material consisting of popcorn (technically popped from grain corn)
4.	Binder consisting of protein glue

### Standard Product Sizes ecoHAB®

Element Sizes (variable)

Width	mm	625 / 1250		
Height	mm	625 / 1250 / 2500		
Thickness	mm	20 / 60 / 80		

### Processing ecoHAB®

Wall mounting	using decorative, extremely sturdy aluminum profiles
Connection of the panels	via tongue and groove
Assembly	plug-in assembly
Cutting	sawing, drilling, punching, water jet, laser beam
Surface treatment	plaster or paint application possible
Edges	blunt, grooved – optionally phased
Disposal	recyclable, biodegradable

### Material Properties / Technical Data

	metric units	ecoHAB®	Chipboard
Weight per m <sup>2</sup>	kg / m <sup>2</sup>	7 / 12 / 14	12 / 36 / 48
Specific heat capacity	J / (kg K)	ca. 2000	ca. 1800
CO <sub>2</sub> equivalent per m <sup>2</sup>	kg / m <sup>2</sup>	-10 / -17 / -20	-11 / -33 / -44
Thermal conductivity (core layer)	W / (m K)	0.037 – 0.041	0.10 – 0.18
Transverse tensile strength (DIN EN 319)	N / mm <sup>2</sup>	0.25	0.2 – 0.6
Flexural strength (DIN EN 310)	N / mm <sup>2</sup>	> 10	7 – 20
Flexural modulus of Elasticity (DIN EN 310)	N / mm <sup>2</sup>	> 2000	1000 – 2500
Fire behavior (DIN EN 11925, DIN EN 4102)		fire retarding / no toxic fumes	
Sound Absorption (DIN EN 11654) without coating		B – C	
Specific density panel	kg / m <sup>3</sup>	180 – 360	600 – 750