

for carpenters & woodworkers

The application benefits:



elka strong board

for Carpenters & Woodworkers



Domestic spruce wood - naturally low in VOC

Minimum raw density 620 kg/m³

Bending strength & E-modulus equal in both directions for optimal panel yield

Mostly diffusion-open - suitable for open and closed construction methods

Processing and recycling-friendly due to adhesive without isocyanates

Splinter-free processing and sanded surface

High screw and nail withdrawal resistance

Can be used as an underlay board N+F (UDPA) according to ZVDH/Köln



Why is the esb panel ideally suited for carpenters & woodworkers?

Constant high panel density over 620 kg/m³ as well as the single-layer structure guarantee optimal static properties. The bending strength & E-modules in both directions in equal parts, enable an optimal panel yield when cutting, avoid planning & processing errors, as the confusion of main and secondary axis is excluded. This saves time & money. Added to this are the technical criteria of low swelling values & high screw and nail pull-out values. Open & closed timber constructions can be realised due to the extensive diffusion openness of the board. realisable. Due to its re-drying properties, the board is not very susceptible to mould. A particularly easy-to-process N+F due to special milling compensates for minimal swelling. The boards are always sanded. The application of adhesives, paints & varnishes is also possible after prior testing. When installed on the roof When installed on the roof, it can withstand any downpour for up to 6 weeks with taped joints due to the underlay certification of the ZVDH/Cologne. **These are unique advantages!**



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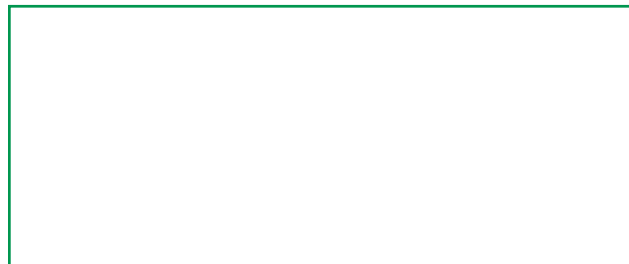
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The multi-talent board from the German eco-pioneer.

As a result of climate change and the generally increased environmental awareness, ecological criteria are of crucial importance today. As an ecological pioneer, elka-Holzwerke have been offering above-average quality standards with their branded products for decades.

The low-VOC esb spruce wood boards without reclaimed wood have a fresh, bright surface appearance and low emissions. The use of fresh wood is also tool-friendly and cost-saving.

The esb panel was the first wood-based panel in Germany to receive the G-160-18-0004 certificate from the German Institute for Building Technology (DIBt). It meets the currently much stricter emission limit values for construction.



Our raw materials

Domestic woods from sustainably managed and regional forestry. The fresh wood chips used are generated in our own sawmill as well as the surrounding sawmills: Zero waste - no garbage - this is also a popular societal trend! Upon request, we provide PEFC certification.

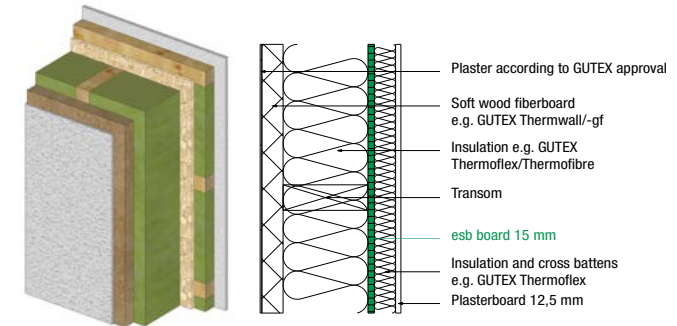
Our adhesive

Recycling-friendly and moisture-resistant MUF resin (Melamine-Urea-Formaldehyde resin), with a specially developed process to reduce formaldehyde emissions.

Formaldehyde content of ≤ 0.05 ppm (E1E05) corresponds to DIBt expert opinion on health protection G-160-18-0004. This board is also available as esb traverse.

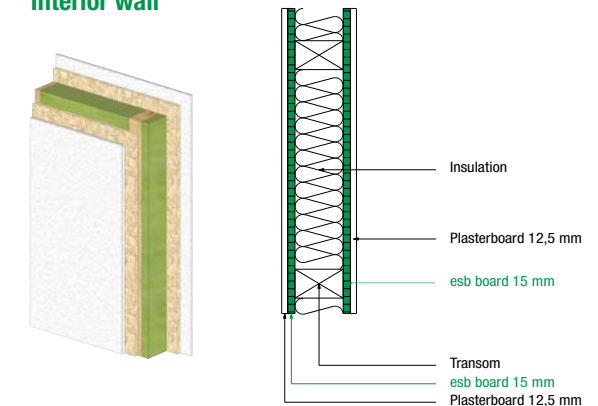
Example applications

Exterior wall - with wood fiber thermal insulation composite system



e.g. according to General Building Approval of Gutex Z-33.47-660

Interior wall



The shown exemplary superstructures in wall, ceiling and roof are exemplary illustration. They are not a substitute for the physical calculation in each individual case, taking into account all local conditions. The examples given represent information without any guarantee of properties.



DIBt-Gutachten No G-160-18-0004 in 2019

