The plus for all!



Drywall and interior constructors



Carpenter & Woodworker



Roofers

The application advantages:

- ✓ Native spruce wood - naturally low in VOCs
- ✓ Minimum raw density 620 kg/m³
- ✓ Bending resistance & E-module equal in both directions for optimum panel yield
- ✓ Mostly open to diffusion - for open & closed construction methods
- ✓ Processing & recycling friendly due to gluing without isocyanates
- ✓ Low-splinter processing and sanded surface
- ✓ High screw and nail extraction value
- ✓ Can be used as sarking board N+F (UDPA) according to ZVDH/Cologne
- ✓ Guarantee through certifications

Comparison of esb and OSB boards Top floor ceiling

...If one evaluates the load-distributing layer itself, it also shows that the OSB board has a significantly higher water content and, in contrast to the esb board, wood-destroying fungi can also grow on it in the worst case. From a building physics point of view, the variant with esb board is therefore more fault-tolerant in the long term and accordingly preferable to OSB board.

Dipl.-Ing. Frank-Stefan Meyer
GEWG Building physics GmbH, Trier

www.elka-holzwerke.de/downloads/esb-vs-osb

elka -Holzwerke GmbH
Hochwaldstraße 44
54497 Morbach, GERMANY

Tel. +49 (0) 6533 / 956 332
www.elka-holzwerke.de
vertriebsmarketing@elka-holzwerke.de

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esb Plus
elka strong board

The healthy wooden construction board

WINNER
German Sustainability Award Companies 2025

Breathe easy with healthy indoor air quality



elka strong board *Plus*



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 ≤ 0.03 ppm (E1E05)

Top quality is our passion - the TOP panel esb PLUS from the German eco-pioneer

As an ecological pioneer, elka-Holzwerke has been offering an above-average quality standard with its brand products for decades & is committed to healthy, future-oriented wood materials. Extensive research efforts accompany our activities in cooperation with our customers.

Only low-VOC spruce wood without waste wood is used for esb PLUS. The esb spruce wood panels have a fresh, light surface appearance and low emissions. The use of fresh wood is also tool-friendly & saves costs.

Guaranteed safety with esb PLUS through extensive certifications

esb PLUS was already included in the low-emission Sentinel Haus Portal in 2016 as the only wood-based panel.

It was the first wood-based panel to meet the stricter Blue Angel guidelines on 1.1.2017. stricter Blue Angel guidelines on 1.1.2017. As a pioneering wood-based panel, it was recognised with the international innovation award of the ICONIC Award 2017 (Winner category) as well as the Material Award 2018 in Ecology.

Early on, before the introduction of the MVVTB (Musterverwaltungsvorschrift Technische Bestimmungen), elka was already supplying its customers with the new requirements.
In 2019, elka was the first manufacturer to receive the certificate G-160-18-0004 from the German Institute for Building Technology (DIBt). As a pioneer in Switzerland, esb PLUS was certified with the eco-Bau label eco 2 and class in 2020.

Nach den Kriterien des
SENTINEL HAUS INSTITUT

BLAUER ENGEL DAS UMWELTZEICHEN
www.blauer-engel.de/uz76

materialPREIS2018
Die Auszeichnung für besondere Materialien

ICONIC AWARDS 2017 product winner

The PLUS for all!

Building & renovating is the trend. Sustainable, future-oriented, ecological and healthy. Ecological construction pays off, despite or even because of COVID-19.

Those who invest in sustainable construction methods benefit in the long term from lower maintenance costs, greater living comfort and a higher value of their home. In addition, health aspects in particular speak in favour of ecological construction methods. The use of environmentally certified natural products such as elka wood-based panels creates the prerequisite for excellent indoor air quality. A healthy indoor climate is crucial for well-being. The higher living comfort and lower operating costs also result in better marketing costs for the owner. Furthermore, due to the environmentally friendly glues without the use of isocyanates, elka wood-based materials can be removed, recycled and reused as part of the deconstruction of building components in the event of conversion or demolition.


Interior construction


Attic conversion


Floor renovation


Tiny house / timber construction

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

QNG READY

Qualitätsgemeinschaft Holzwerkstoffe e.V.

CE

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