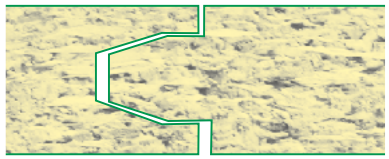
esb Plus

elka strong board

- ✔ Building physics: largely diffusion-open material, see **WUFI® database**
- ✔ Good static values
  (according to DIN EN 12369 part 1/DIN 20000-1)
  and technical values
  (according to DIN EN 13986 or EN 312)
- ✔ High fitting accuracy
- ✔ Ground, light-coloured surface
- ✔ Fresh wood without odour emission
- ✔ Formaldehyde < 0.03 ppm & low VOC
- ✔ Recycling-friendly MUF-gluing
- NEW Can be used as a sarking board N+F according to ZVDH/Cologne
- ✔ Optimum price/performance ratio
- ✔ Generally suitable for load-bearing components in damp areas P5 DIN EN 312

elka NF easy



Tongue and groove are precisely coordinated with each other.

elka-holzwerke.de · 11/2023

elka® Brand Products

elka-Holzwerke GmbH
Hochwaldstraße 44
D-54497 Morbach

Telefon: +49 (0) 65 33 / 9 56-332
Telefax: +49 (0) 65 33 / 9 56-330

E-Mail: vertrieb@elka-holzwerke.de
Internet: www.elka-holzwerke.eu

MADE IN GERMANY · PRODUCT FROM GERMANY

elka-Holzwerke GmbH is a company that can look back on a company history of over 100 years. Professionally qualified employees and modern production techniques guarantee the high quality standard of the elka® brand products.

Our qualified specialist retailer will be happy to advise you:

More time ... trough elka variety & speed.

esb Plus

elka strong board

The plus for all!

in 2021 the 1. carbon-neutral certified wooden composite board on the German market! esb

Breathe easy with healthy indoor air quality

elka® Brand Products

esb Plus

elka strong board

The award-winning premium product for healthy building & living

Awards:

materialPREIS2018 Die Auszeichnung für besondere Materialien

ICO 2 NIC 0 AWA 1 RDS 7 product winner

Tongue and groove format:

258 cm × 67,5 cm / cover size
in 12, 15, 18, 22, 25 mm

Format blunt:

259,5 cm × 125 cm in 12, 15, 18, 22, 25 mm
280/300 cm × 125 cm in 15 mm

Large format blunt:

520 cm × 206 cm *) 12/15/18/22/25 mm
**) already available from 80 pieces / thickness*

Material thicknesses/ Packaging units:

12 mm	75 Piece
15 mm	60 Piece
18 mm	49 Piece
22 mm	40 Piece
25 mm	36 Piece

Special thicknesses on request

Health benefits:

- ✔ Low emissions (Formaldehyde < 0.03 ppm & low VOC)
- ✔ Waste wood free (100% fresh wood chips)
- ✔ Native spruce fresh wood
- ✔ Recycling-friendly MUF gluing
- ✔ *Certified with*
  - *Blauem Engel (Version 1.1.2017)*
  - *Sentinel Haus Institut GmbH*

Technological advantages:

- ✔ Flexural strength and modulus of elasticity equal in both directions
- ✔ Higher transverse tensile strength than OSB (approx. 40% higher)
- NEW Lower swelling than OSB
  Can be used as a sarking board N+F according to ZVDH/Cologne

Application advantages:

- ✔ Very light surface with natural wood character
- ✔ Minimum bulk density 620 kg/m3
- ✔ Complies with the IPPC standard ISPM No. 15 for wooden packaging
- ✔ Ground surface and therefore:
  - Largely open to diffusion
  - Application of adhesives, paints and lacquers possible
  - Nearly closed surface
  - High precision fit
- ✔ Very good screw pull-out strength

CE

Deutsche Gütegemeinschaft e.V. Holzwerkstoffe

SENTINEL HAUS BAUVERZEICHNIS

BLAUER ENGEL DAS UMWELTZEICHEN

PEFC Förderung nachhaltiger Waldwirtschaft www.pefc.de

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

www.blauer-engel.de/uz76

Technical features [1] with premium certification:

Thickness [mm]	12	15	18	22	25
Type	ESB P5				
Transverse tensile resistance [N/mm²]	>0,45	>0,45	>0,45	>0,40	>0,40
Longitudinal bending resistance [N/mm²]	>18	>16	>16	>14	>14
Bending resistance transverse [N/mm²]	>18	>16	>16	>14	>14
24h Swelling [%]	<11	<10	<10	<10	<10

[1] Technical properties for ESB according to DIN EN 312; for OSB according to DIN 300, the actual values of ESB boards are significantly better. Thermal conductivity λ = 0.10 W/mK, water vapour diffusion resistance number (μ-value) tro./damp = 80/ 40 according to EN 13986

The ESB board as a wood-based material for use in the building industry is listed in the Building Rules List B Part 1 under 1.3.2.1. and is therefore approved by the building authorities.