

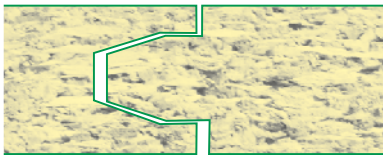


**elka strong board**

- ✓ Building physics: largely vapour-permeable material (see WUFI® database)
- ✓ Excellent static values (complies with EN 12369 Part 1 and ISO/IEC 20000-1) and technical values (complies with EN 13986 and/or EN 312)
- ✓ Extremely precise fit
- ✓ Light sanded surface
- ✓ Green wood; no odour emitted
- NEW** Can be used as a tongue and groove under-ceiling board in accordance with ZVDH/Cologne
- ✓ Optimum value for money
- ✓ For general use in load-bearing structural components in humid conditions P5 EN 312



*easy*



Tongue and groove are precisely matched.



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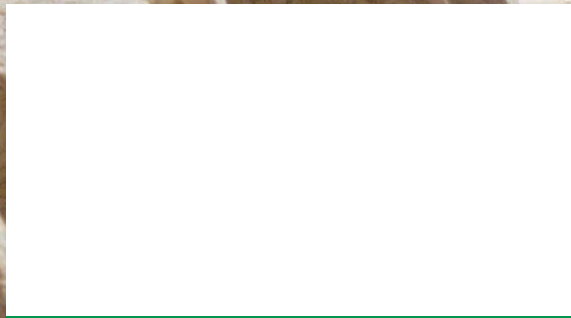
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**Locations:**

elka-Holzwerke GmbH is a business corporation which can look back on more than 100 years of company history. High skilled staff and state-of-the-art manufacturing techniques guarantee the high quality standard of **elka**®-products.



Your qualified dealer:



More time... thanks to **elka** diversity & speed



**elka strong board**

The solution for healthy climatic, living and building

DIBt-Certificate No G-160-18-0004







## A better Solution:

### Size: tongue and groove

258 cm x 67.5 cm / coverage

258 cm x 125 cm / coverage \*)

205 cm x 62.5 cm / coverage \*)

\*) Not including 30 mm thickness

### Size: flush

259.5 cm x 125 cm \*)

\*) Not including 30 mm

### Large size: flush

520 cm x 206 cm \*) in 9 \*\*)12/15/18/22/25 mm

\*) Supplied from 80 pcs per thickness

\*\*) Supplied from 350 pcs / 1 truck load

### Material thickness/ pack quantities

9 mm on request

12 mm 75 pcs

15 mm 60 pcs

18 mm 49 pcs

22 mm 40 pcs

25 mm 36 pcs

30 mm 30 pcs

Non-standard dimensions available  
upon request

## Technological advantages:

- ✓ Bending strength and modulus of elasticity same in both directions
- ✓ Greater transverse tensile strength than OSB (approx. 40% more)
- ✓ Less swelling than OSB



Can be used as a tongue and groove under-ceiling board in accordance with ZVDH/Cologne

## Advantages in application:

- ✓ Very light surface with a natural wood character
- ✓ Domestic green wood with no odour emitted
- ✓ Minimum wood density 620 kg/m<sup>3</sup>
- ✓ Meets IPPC standard ISPM No. 15 for wooden packaging
- ✓ Sanded finish and therefore:
  - largely water vapour permeable
  - Adhesives, paints and varnishes can be applied
  - The surface is virtually sealed
  - The boards have an extremely precise fit
  - High screw pull-out resistance
- ✓ very good screw withdrawal resistance



## Technical characteristics <sup>1)</sup>

Thickness [mm]	12		15		18		22 / 25		18 - 25	
	ESB P5	OSB 2	ESB P5	OSB 2	ESB P5	OSB 2	ESB P5	OSB 2	OSB 3	OSB 3
Internal bond [N/mm <sup>2</sup> ]	>0,45	>0,32	>0,45	>0,32	>0,45	>0,32	>0,40	>0,30	>0,30	>0,30
Bending strength, longitudinal [N/mm <sup>2</sup> ]	>18	>20	>16	>20	>16	>20	>14	>18	>18	>18
Bending strength, transverse [N/mm <sup>2</sup> ]	>18	>10	>16	>10	>16	>10	>14	>9	>9	>9
24h swelling [%]	<11	<20	<10	<20	<10	<20	<10	<10	<20	<15

<sup>1)</sup> The technical properties given for esb are in accordance with EN 312 and for OSB in accordance with DIN 300; the actual values under DIN 300 for esb panels are significantly better. Thermal conductivity  $\lambda = 0.10$  W/mK, Water vapour diffusion resistance factor ( $\mu$ ) dry/humid = 80/40 according

DIN EN 13986

**esb is listed in the German Building Regulations (Bauregelliste) List B Part 1 under 1.3.2.1. as a timber construction material for use in the building sector and is therefore approved by the building inspection authorities.**