

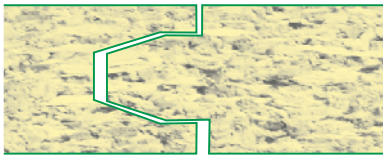


elka strong board

- ✓ 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
- ✓ 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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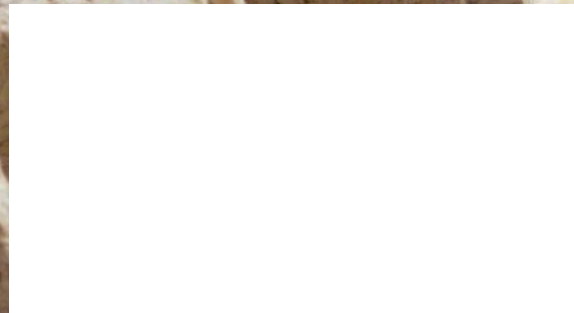
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Locations:

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:



The solution for healthy climatic, living and building





A better Solution:

Size: tongue and groove

258 cm x 67.5 cm / coverage

205 cm x 62.5 cm / coverage *)

*) Not including 30 mm thickness

***) 15 mm ex-stock

Size: flush

259.5 cm x 125 cm *)

244 cm x 122 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

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

Advantages in application:

- ✓ Very light surface and appearance
- ✓ Domestic green wood with no odour emitted
- ✓ Same weight as OSB
- ✓ 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 decorative and natural character of wood is shown
 - The boards have an extremely precise fit



Technical characteristics ¹⁾

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 2	OSB 3
Internal bond [N/mm ²]	>0,45	>0,32	>0,45	>0,32	>0,45	>0,32	>0,45	>0,32	>0,30	>0,30
Bending strength, longitudinal [N/mm ²]	>18	>20	>16	>20	>16	>20	>14	>18	>18	>18
Bending strength, transverse [N/mm ²]	>18	>10	>16	>10	>16	>10	>14	>9	>9	>9
24h swelling [%]	<11	<20	<10	<20	<10	<20	<10	<20	<20	<15

¹⁾ 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 (μ) 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.