

EUCApex plus CH

Data Sheet

EUCApex plus CH is a eucalyptus-veneer plywood sheet made from plantation-grown Chinese eucalyptus, with film coating on both sides, for horizontal and vertical formwork applications.

Sheet structure

- Film-coated plywood sheet made of Chinese eucalyptus.
- The veneers are full-size or scarf-jointed and arranged crosswise.

Glue-bonding

- Boil-resistant, alkali-resistant, water-resistant and weather-resistant phenolic-resin glue-bonding.
- The glue-bonding meets the requirements of BS EN 314-2 Bond Class 3 and DIN 68705 BFU 100.

Surfaces

- Both sides phenolic-resin film coating with 240 g per m² and side.
- Painted with acrylic resin.

Technical data

Note:

All values in the tables are based on a sheet moisture content of $10 \pm 2\%$ on delivery. Changes in the wood's moisture content can have effects on the weight, dimensions and mechanical properties of the sheet.

The grain of the outside layers of this formwork sheet runs transverse to the longitudinal direction of the sheet.

Thicknesses, weights and formats:

Nominal thickness [mm]	Layers	Weight [kg/m ²]	Formats [cm]
12	7	7.03	62.5 x 250 125 x 250 150 x 300
15	9	8.76	62.5 x 250 125 x 250 150 x 300
18	11	10.50	62.5 x 250 125 x 250 150 x 300
21	13	12.30	62.5 x 250 125 x 250 150 x 300

Format tolerances:

	Tolerance
Length/Width	± 1.0 mm/m
Thickness	$\pm (0.2 + 0.03 t)$ mm

Mechanical properties:

Nominal thickness [mm]	E_m [N/mm ²]		f_m [N/mm ²]		EI [kNm ² /m]	
		⊥		⊥		⊥
15	6989	5435	45.7	51.9	1.97	1.53
18	5308	3492	40.2	31.6	2.58	1.70
21	5819	4907	52.7	43.0	4.49	3.79

E_m ... mean flexural modulus of elasticity

f_m ... characteristic flexural strength

EI ... flexural rigidity

|| ... parallel to the grain

⊥ ... at right angles to the grain

- **Thermal conductivity:** 0.13 W/mK
- **Formaldehyde class:** E1

Number of cycles

Possible frequency of use depends on many factors acting on the formwork sheet. Given optimum conditions of use and correct handling, up to **20 use cycles** (guide value) can be achieved.

Notes on use

Ensure that the formwork sheets are treated correctly whenever they are used.

Formwork sheets are subject to the natural swelling and shrinkage of wood associated with moisture absorption and loss in the corresponding climatic conditions.

- ▶ Prior to use, always make sure that the wood moisture content of the formwork sheets is matched to that of the surroundings.
- ▶ Cover sheets to protect them from extreme climatic influences such as exposure to sunlight or moisture. This prevents cracking and deformation.
- ▶ Seal cut edges, and around holes, with edge varnish.
- ▶ Use a high-quality release agent (e.g. Doka-Trenn or Doka-OptiX).
- ▶ Immediately after stripping the formwork, remove concrete residues from the surfaces that were in contact with the concrete.
- ▶ Isolated matt areas – permissible up to 10% of the surface area.
- ▶ Isolated film thickening – maximum permissible width of 20 mm.
- ▶ Colour variation in the film is permissible.
- ▶ Rippling is permissible.
- ▶ Delamination is not permissible.



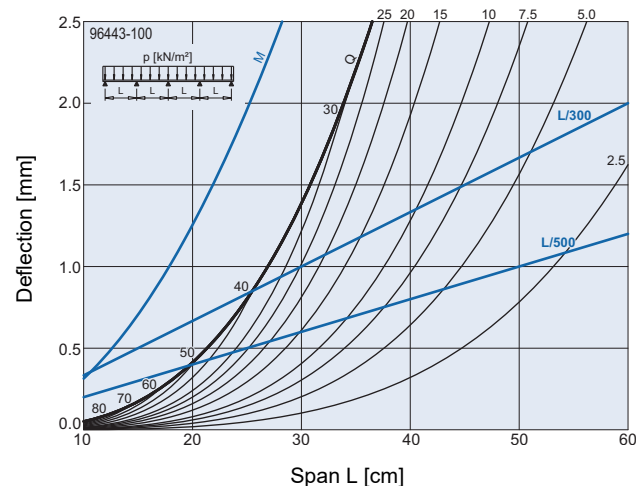
NOTICE

Do not use pointed or sharp objects, wire brushes, abrasive discs or cup brushes.
Do not use high-pressure spray cleaners.

Deflection diagrams

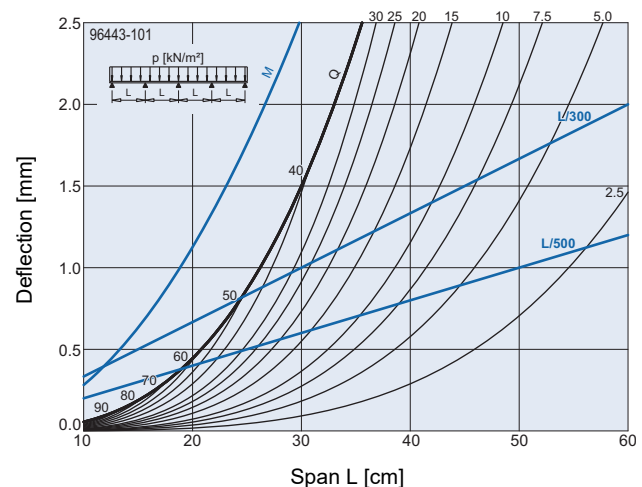
All values in the diagrams are based on a wood moisture content of 20%. If the moisture levels are higher than this, two effects will occur: The modulus of elasticity will greatly decrease (i.e. deformation will increase), and the strength values will be lower. This leads to a reduction in the load-bearing capacity.

15 mm

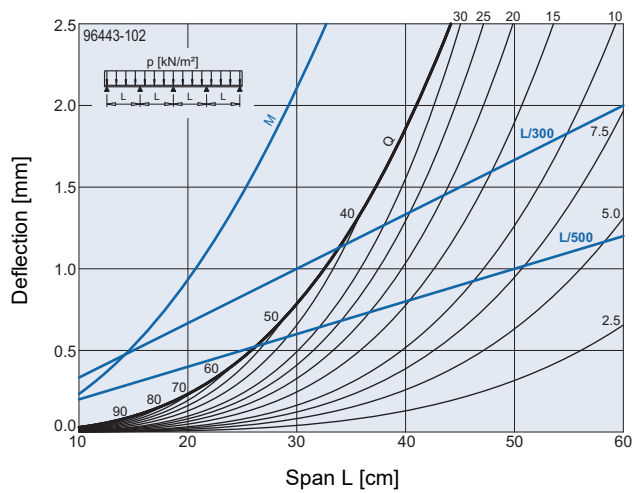


M ... permissible bending moment
Q ... permissible shear force

18 mm



M ... permissible bending moment
Q ... permissible shear force

21 mm

M ... permissible bending moment
Q ... permissible shear force

General information

The data stated here are guide values.

Note:

FSC and PEFC materials available on request.
For further information, please contact Doka.