

Kerto® LVL

D-panel



Kerto® LVL D-panel is strong and rigid decking panel. D-panels can be also used as horizontal bracing for stabilizing the building. The light-weight and dimensionally stable panels ensure material and cost efficiency due to customised product dimensions and fast installation time.

Kerto LVL D-panel is made of cross-bonded 3 mm thick strength graded softwood veneers. The veneers are bonded with weather- and boil-resistant phenol formaldehyde adhesive. D-panel is available in thicknesses 15 mm and 18 mm.

The light-weight and dimensionally stable D-panel is ideal for decking applications. It can also be used as a multi-purpose construction panel in various applications for example as bracing panel in walls and roofs. Panels which can have tongue and grooved edges (2-sided or 4-sided) are easy and fast to install with conventional woodworking tools. Panels located in an unheated space with relative humidity temporarily exceeding 75 % are recommended to be treated with MouldGuard surface treatment to reduce the risk of mould growth and blue stain on product surface.

APPLICATIONS

Structural applications:

- Panel for roof, wall and floor structures
- Bracing panel

MAJOR ADVANTAGES

- Large light-weight panel product
- Dimensionally stable
- Great workability and quick to install
- Easy to fasten with screws, nails and staples, and work with conventional woodworking tools
- Ensures material efficiency with customised product dimensions
- Can be MouldGuard surface treated and edge profiled
- Made of sustainable Nordic wood and PEFC (PEFC/02-31-381) certified
- Kerto LVL (1 m³) contains on average stored carbon equivalent to 783 kg CO₂

APPROVALS AND DESIGN PROPERTIES

Kerto LVL D-panel is CE and UKCA marked and the design properties are determined according to standard EN 14374. The design properties given in the Declaration of Performance (DoP) and in the UK Declaration of Conformity (UK DoC) are to be used for structural calculations with EN 1995 (Eurocode 5). The DoP documents can be downloaded from www.metsawood.com/dop and the UK DoC documents can be downloaded from www.metsawood.com/ukdoc.

Kerto LVL production is managed according to the principles of standard ISO 9001. The quality and the constancy of performance of the product is controlled by regular third party inspections and audits.

OVERALL DIMENSIONS

	MINIMUM (mm)	MAXIMUM (mm)
Thickness	15	18
Width	1 200	2 500
Length	2 400	20 000

Standard stock size 1200 x 2700 mm. Special dimensions are available on request.

STANDARD TOLERANCES

	SIZE	MINIMUM	MAXIMUM
Thickness	≤ 27 mm	- 1.0 mm	+ 1.0 mm
Width	< 400 mm	- 2.0 mm	+ 2.0 mm
	≥ 400 mm	- 0,5 %	+ 0,5 %
Length	All	- 5.0 mm	+ 5.0 mm

In moisture content of 10 ±2 %. Special tolerances are available on request.

PANEL CONSTRUCTIONS

THICKNESS (mm)	NUMBER OF PLIES	LAY-UP
15	5	I-I-I
18	6	I-II-I

BONDING

Kerto LVL is bonded with a weather- and boil-resistant phenol formaldehyde adhesive. The gluing meets the requirements of the standard EN 14374. The face veneer scarf joints on the front side of the product are glued with colourless adhesive.

During hot pressing the adhesive cures as thermoset plastic, and therefore is inert and non-hazardous to humans and animals.

FORMALDEHYDE EMISSIONS

Determined according to EN 717-1, the formaldehyde emitted by Kerto LVL falls far below the Class E1 requirement of ≤ 0.100 ppm, and also fulfils the most stringent requirements in the world (≤ 0.030 ppm). The formaldehyde emission of Kerto LVL is approximately 0.018 ppm.

FURTHER PROCESSING

Kerto LVL D-panel can be tongued and grooved and surface treated with MouldGuard or WeatherGuard.

Kerto LVL D-panel treated with MouldGuard is surface impregnated with a wood preservative. According to the third party test results, the mould and blue stain resistance of MouldGuard is significantly better (4-5 times) than untreated D-panel.

The preservative is classified for hazard class 3 (EN 599-1). The efficiency of the chemical has been verified according to the EN 113 (decay) and EN 152-1 (blue stain) tests.

Biocidal Products Regulation (EU) No 528/2012 Kerto D-panel with MouldGuard treatment is treated with biocide:

- preservative surface treatment reduces the risk of mould growth and blue stain
- active substances: propiconazole, 3-iodo-2-propynyl butylcarbamate
- direct contact to foodstuffs or animal feed should be avoided
- shall not be used for the production of furniture and play structures

Edge profiling	Tongue and groove
Treatment against mould	MouldGuard
Temporary weather protection	WeatherGuard

Limitations for further processed panels:

Min. 15-18* 300* 2000 mm
Max. 15-18* 2500* 4000 mm

PACKAGING

Products are packed in moisture-resistant plastic wrapping or packing hoods. Packages can be stored outside only temporarily. Longer-term storage is recommended under cover in dry conditions.

On request the products can be delivered without plastic wrapping. In this case products shall not be exposed to weather.

FURTHER INFORMATION

- Kerto LVL D-panel Declaration of Performance (www.metsawood.com/dop)
- Kerto LVL D-panel the UK Declaration of Conformity (www.metsawood.com/ukdoc)

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