

Kerto® LVL

Kate



Kerto® LVL Kate is strong and rigid roof decking panel which is an excellent substrate for different roofing materials. Kate 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 Kate is made of cross-bonded 3 mm thick strength graded softwood veneers. The veneers are bonded with weather- and boil-resistant phenol formaldehyde adhesive. Kate is available in thicknesses 15 mm and 18 mm.

The light-weight and dimensionally stable Kate panel is ideal for roof decking. It can be also used as multi-purpose construction panel in various applications for example as bracing panels in walls and roofs. Panels with 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

- **Strong and rigid**
- **Large light-weight panel product**
- **Dimensionally stable**
- **Great workability and quick to install**
- **Easy to fasten, nail and drill**
- **Ensures material efficiency with customised product dimensions**
- **Can be MouldGuard surface treated and edge profiled**
- **Made of sustainable northern wood and PEFC certified**
- **Kerto LVL (1 m³) contains the stored carbon equivalent to 794 kg CO₂**

Approvals and design properties

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

Kerto 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	3,600

Other sizes 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.

SANDING OF KERTO LVL AFFECTS PRODUCT THICKNESSES

- Optical sanding reduces the original nominal thickness by approximately 2 mm. The standard thickness tolerances apply to the sanded nominal thickness. Structural design shall be made according to the sanded nominal thickness.

Panel constructions

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

Special constructions are available on request.

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 fulfils also the most stringent requirements in the world (≤ 0.030 ppm). The formaldehyde emission of Kerto LVL is app. 0.018 ppm.

Further processing

Kate can be further processed in various ways according to end-use requirements.

Edge profiling	Tongue and groove
Treatment against mould	MouldGuard

Packing

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 Kate Declaration of Performance (www.metsawood.com/dop)

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