



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 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 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 stables, 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 Kate 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 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)
Width	1 200	2 500
Length	2 400	3 600

The table includes the most common product sizes. 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.

PANEL CONSTRUCTIONS

THICKNESS (mm)	NUMBER OF PLYS	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 Kate can be further processed in various ways according to end-use requirements.

Edge profiling	Tongue and groove
Treatment against mould	MouldGuard

Maximum further processed panel size is ...

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

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