

Kerto® LVL



Kerto® LVL products are manufactured in Lohja and Punkaharju Kerto LVL mills in Finland. The commercial production of Kerto LVL started in 1981 in Lohja. Metsä Wood is the first LVL manufacturer in Europe and has still the largest annual LVL production capacity in Europe.

Wood supply

Metsä Wood mills in Finland have only one roundwood supplier, Metsä Forest, belonging to the same Metsä Group. Most of the wood Metsä Group uses comes from family-owned forests. All the used wood is traceable and comes from certified or controlled forests. Metsä Group's wood tracing systems are certified and verified according to PEFC and FSC® Chain of Custody requirements. Kerto LVL products are PEFC certified as standard and there is limited availability of FSC certified products.

Forest management certification

- PEFC as standard, logo licence registration number: PEFC/02-31-03
- limited availability of FSC, FSC licence code: FSC-CO14476

Production process

Kerto LVL is manufactured from 3.0 mm thick rotary peeled and strength graded softwood veneers. The veneers are bonded with weather- and boil-resistant phenol formaldehyde adhesive. The main wood raw material is spruce (*Picea abies*). Products may also contain small amounts of pine (*Pinus sylvestris*).

The logs are measured, debarked and soaked in warm water at least for 24 hours. The soaked logs are cut into peeling logs and rotary peeled into 3.0 mm thick continuous veneer mat. The veneer mat is then cut into sheets. Veneer sheets are dried in temperature of 180-200 °C. Dried veneers are graded based on strength and visual quality. Adhesive is spread on top of the veneers and the veneers are laid up as a continuous billet. The billet is pre pressed to make sure that the adhesive spreads evenly. The billet is hot pressed in

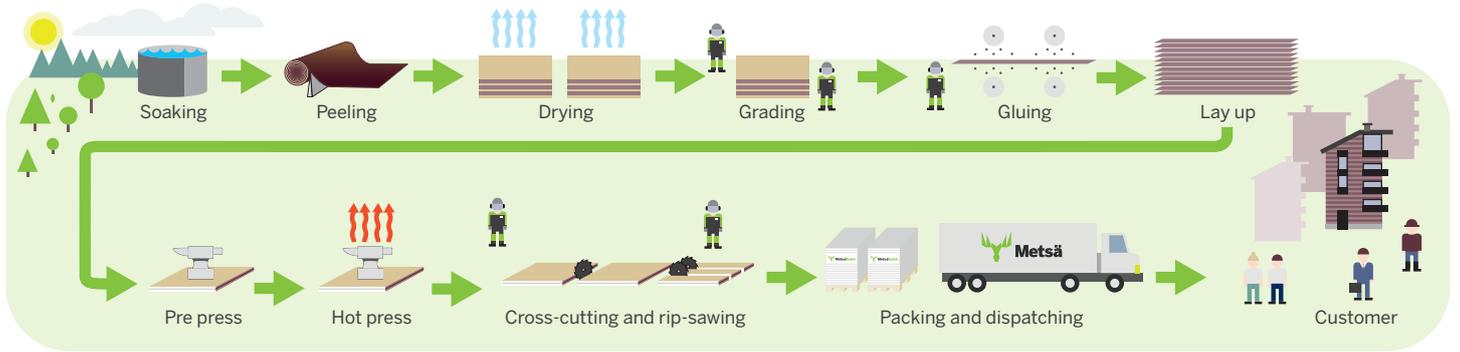


temperature of 135-150 °C. During hot pressing the adhesive cures and hardens. The billet is cut to order specific dimensions. Ready products are packed in plastic wraps and delivered to customers.

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.

TABLE 1. KEY FIGURES OF KERTO LVL PRODUCTION

	LOHJA	PUNKAHARJU
Number of current production lines	2	3
Start-up year	1998, 2017	2001, 2006, 2019
Annual production capacity	95,000 m ³	180,000 m ³
Maximum product length	25 m	24.5 m
Maximum product width	1.8 m	2.5 m
Products	Kerto LVL S-beam, S-beam PLUS, Q-panel, Qp-beam, L-panel and T-stud	Kerto LVL S-beam, Q-panel, Qp-beam, L-panel, T-stud and Kate



More information

- Kerto LVL Manual - Further processing
- Kerto LVL Manual - Tolerances



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