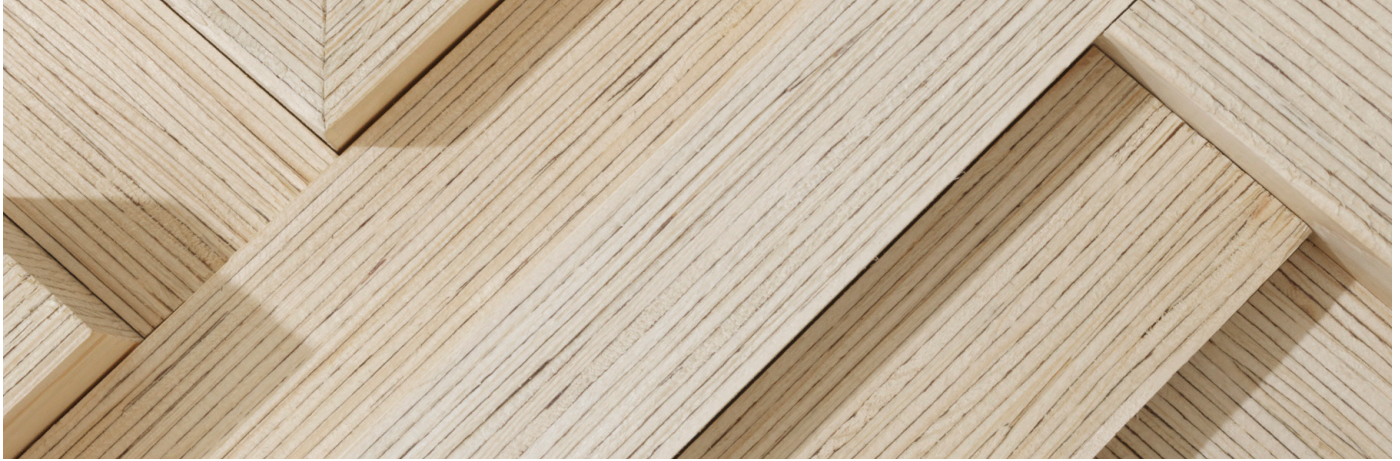


Kerto® LVL



Kerto® LVL products are used as studs in wooden frame wall structures and as columns in post-and-beam frames. Massive Kerto columns can be made by combining several Kerto members together.

Kerto LVL is dimensionally stable and accurate product which is suitable for use as a stud in load-bearing structures in external and internal walls and as a wall-framing member in light wall constructions. The use of Kerto ensures material and cost efficiency in high wall constructions. Kerto can be used with any sheeting materials, which can be attached easily without any special tools.

Kerto products' dimensional accuracy, light weight, rigidity, and good machining properties help to expedite construction. Kerto products enable slim and strong structures which do not warp or twist.

KERTO COLUMN AND STUD APPLICATIONS

- Timber framed load-bearing and non-load-bearing walls
- Massive columns
 - mechanically joint or multiple glued (GLVL)
- 3-pin portal frames

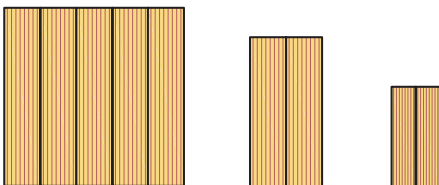


Figure 1. Multiple-glued GLVL columns for beam and post structures.

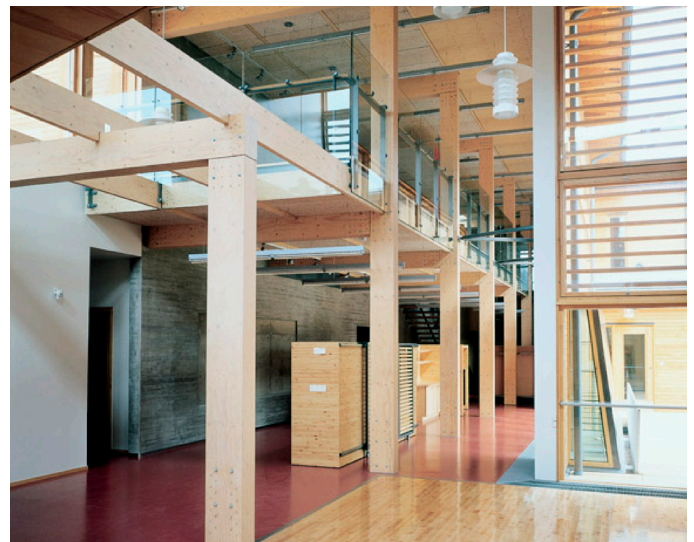


Figure 2. Kerto LVL columns in a beam and post structure



Figure 3. Kerto LVL studs in exterior walls



Figure 4. Kerto LVL as framework studs

DESIGN

All Kerto products can be designed with Eurocode 5 and its national annexes.

Metsä Wood has developed a special software application, Finnwood®, for structural designers. Individual structures made of Kerto LVL and other Metsä Wood products can be designed and optimised with the software. The user-friendly interface makes designing structural members such as floor joists and roof beams fast and effective.

The benefits offered by the software include a clear user interface, easy and fast dimensioning of structural elements according to EC5. As a result, the user obtains clear structural calculations to be presented, for instance, to local building authorities. Metsä Wood has also published span tables for Kerto LVL T-studs to help designers to work faster and more efficiently. The tables are available on Metsä Wood website and they include the most common measurements according to local requirements.

Finnwood can be obtained free of charge from the country websites of Metsä Wood. Registration is required before downloading. Several country specified versions are available including eg. Finland, Sweden, France, Germany and UK.

www.metsawood.com/finnwood



Figure 5. Kerto LVL studs in partition walls

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