

COLUMNS AND STUDS



MetsäWood

COLUMNS AND STUDS

Kerto products are used as studs in wooden frame wall structures and as columns in post-and-beam frames. Massive Kerto columns typically have a built-up structure, with several Kerto-S or Kerto-Q members glued together.

Kerto is a completely straight, dimensionally stable and accurate product that 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. Available in a wide range of cross-section sizes, Kerto products facilitate cost-effective construction of high walls, which will remain straight.

Thanks to its structure, Kerto can be used with any sheeting materials, which can be attached easily without any special tools.

Kerto products' dimensional accuracy, weight, rigidity, and good machining properties help to expedite construction. Kerto products make for slim and strong structures that remain straight.

KERTO COLUMN AND STUD APPLICATIONS

- Timber framed load-bearing and non-load-bearing walls (Kerto-S)
- Columns glued together or joined with mechanical fasteners (Kerto-S and Kerto-Q)
- Three-hinged frames (Kerto-Q)

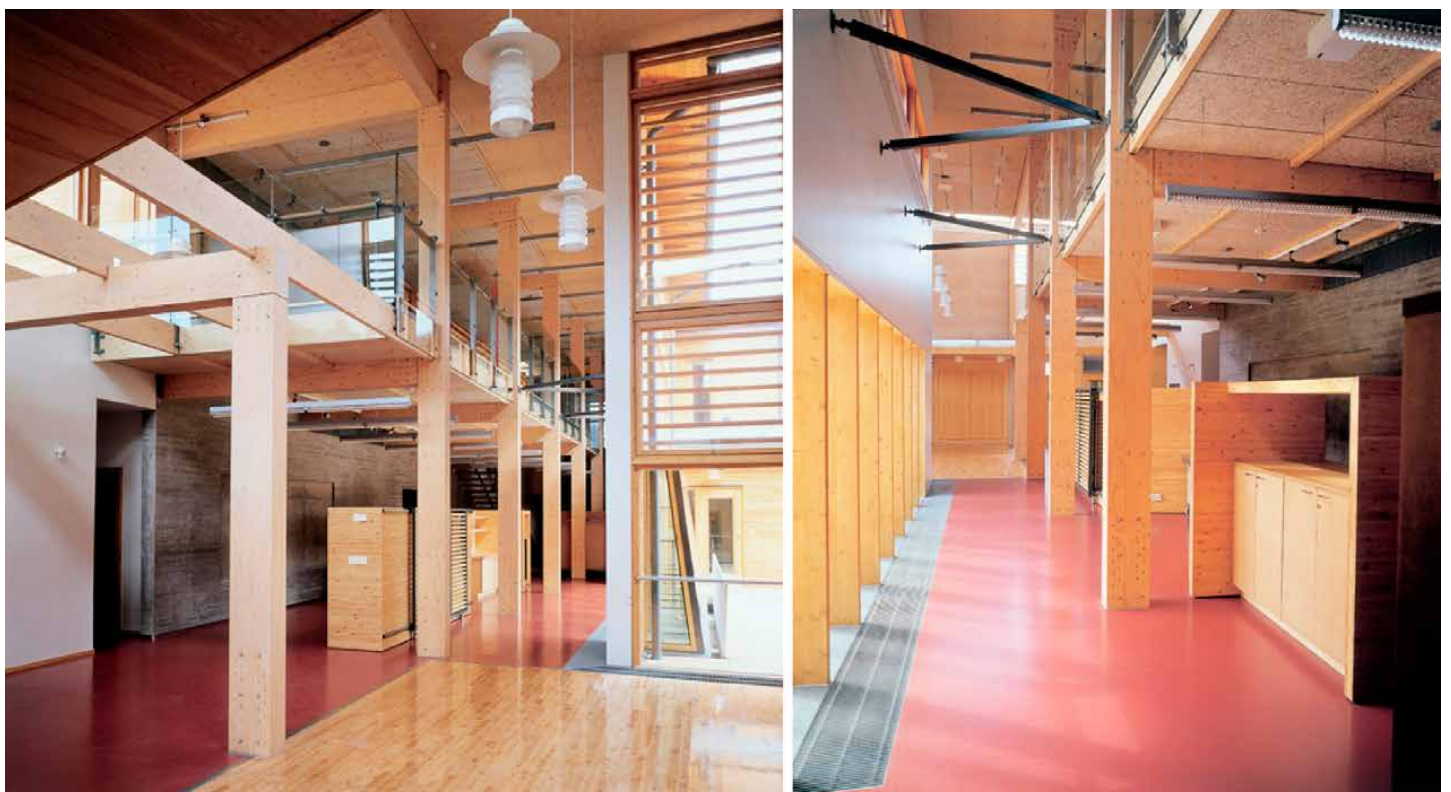


Figure 1. Kerto in built-up columns



Figure 2. Kerto framework studs



Figure 3. Kerto studs for partition walls

DESIGN

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

To facilitate design calculations, Metsä Wood has developed a special software application, Finnwood®, for structural engineers and specifiers. Finnwood allows you to dimension individual structural elements, such as columns, floor joists, and roof rafters. In addition to Kerto products, other Metsä Wood products are also included.

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 inspection authorities.

The software is available for download free of charge from www.metsawood.com. Registration is required before downloading.