

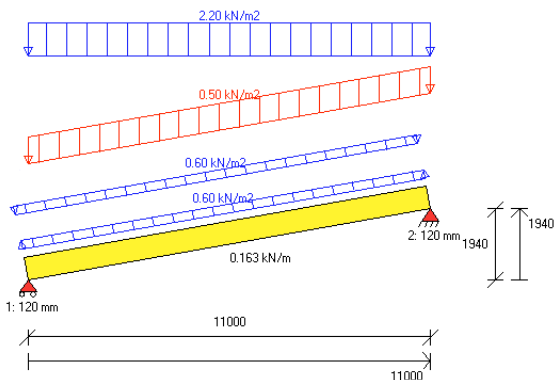


FINNWOOD 2.3 SR1

Kerto-QP roof beam

FAST AND EFFECTIVE OPTIMIZING OF TIMBER STRUCTURES

FINNWOOD® is a software program developed by Metsäliitto Cooperative, Metsä Wood for the calculation of individual timber structures made of Kerto® or other Metsä Wood products. Finnwood allows the user to freely define the geometry and loads of the structure, and prints out full structural calculations in pdf format.



Updates to timber design standards and local design instructions are closely followed by Metsä Wood to create up-to-date versions of Finnwood.

Finnwood 2.3 SR1 complements the Finnwood 2.3 version published in February 2010. Structural design is still performed in accordance with Eurocode 5 (EN 1995-1-1), its Amendment A1:2008 and the corresponding Finnish National Annex that has come into force on April 1st, 2009.

Calculations saved in Finnwood 2.3 are compatible with the new Finnwood 2.3 SR1.

A third party checking of Finnwood 2.3 SR1 has been carried out by VTT (VTT-S-03937-12).

WIDE PRODUCT SELECTION

Finnwood calculates floor and roof beams, columns, intermediate floor panels and roof panels made of Metsä Wood products.

Finnwood 2.3 SR1 also includes the new Metsä Wood roof beam Kerto-QP and the new glulam strength classes GL30c and GL30h.

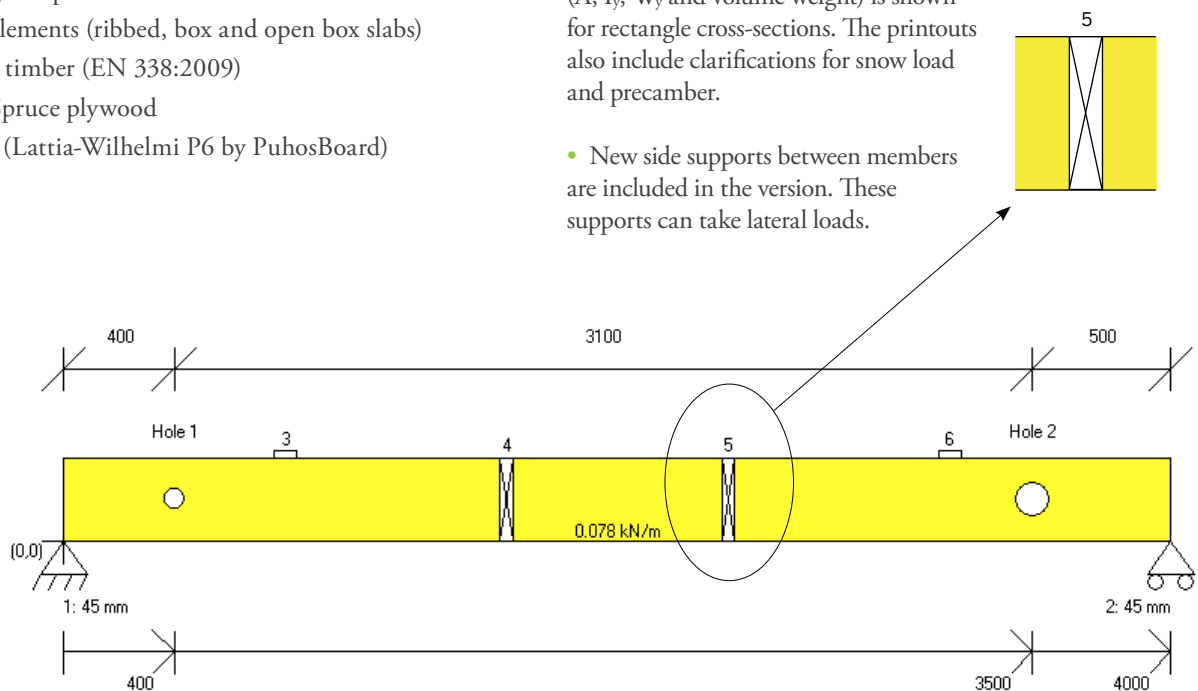
The Kerto-QP roof beam is a slender and tall but rigid structural member that is ideal for low energy and passive buildings. The standard sizes of the beam are 39 x 500 mm and 51 x 625 mm.

THE BASIC PRODUCT SELECTION STILL INCLUDES

- Kerto-S, Kerto-Q and Kerto-T
- Re-glued Kerto-S
- Metsä Wood glulam
- Metsä Wood glued posts
- Kerto-Ripa® -elements (ribbed, box and open box slabs)
- Structural saw timber (EN 338:2009)
- Metsä Wood Spruce plywood
- Chipboard P6 (Lattia-Wilhelmi P6 by PuhosBoard)
- Kerto-Kate

NEW FEATURES

- Buckling checking takes into account the new definitions of the effective torsional buckling length as presented in the amendment of RIL 205-1-2009 given on September 23rd, 2010.
- The mass m used in the vibration checking is now calculated as the sum of the self-weight of the floor and the imposed load (30 kg/m^2) as presented in the additions of RIL 205-1-2009 given on January 30th, 2012.
- The design calculations of Kerto-Ripa elements have been improved so that it is now possible to create 2,5 m wide elements with three Kerto-S ribs only. The usability of the Kerto-Ripa element databases has also been improved.
- The overall usability of the program has been improved so that e.g. all pictures are presented in scale and additional information (A , I_y , W_y and volume weight) is shown for rectangle cross-sections. The printouts also include clarifications for snow load and precamber.
- New side supports between members are included in the version. These supports can take lateral loads.



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