



LigniKon Large

the 3D CAD for carpenters to build roofs and other timber structures

Advanced and flexible for the construction and the processing of wooden structures

LigniKon Large is perfect for producing wooden roofs, carports, various pergolas, gazebos and garden sheds!

With the **Wizards** you easily create your **roofs** complete with **dormers** and **skylights**, and if necessary you can also extend them with **eaves projections** and various **extensions** using specific tools included.

The special parametric tool 'Timber framing under top plate', allows you to configure frameworks with Studs, Knee Braces, Noggins, Plates and Wall Bracing and build **pergolas, carports, sheeds and other**, with just 3 clicks!

Overview of the most important functions

- Augmented Easiness: parametric CAD for timber constructions, designed to work directly in 3D (in addition to 2D) and gain in time and easiness
- Defining the properties of the roof profile is very easy thanks to a simple and clean interface with interactive schemes that automatically appear according to the context. Indeed, it will be a doddle to set the slopes of the pitches, sections and dimensions of the purlins (plates, middle and on the ridge), rafters and battening!
- Geometry-specific dormer wizard with a high level of customisation of the roof timber framework and not only
- Editor of Skylights and Chimneys with Automatic Supports and Headers
- Customisable catalogues of Roof Tiles and Structures
- Multiple placement of Beams/Joists, Posts/Studs, Rafters and Collar Beams/Ties just setting fixed (forced) or self-adaptive (dynamic) interaxle spacing
- Placing of 'Slanted Fly Rafters'
- Parametric modelling of Studs, Knee Braces, Noggins, Plates and Wall Bracing for easily building frameworks and pergolas
- Joints and machining: Controlled Cut, Deburring/Trimming, classic Half Lap joints between two elements, Hooked and Plain Scarf Joints, Free/Multiple Birdsmouths, Break/Merge and Free Marking
- Automatic Technical Drawings already Dimensioned of Single Framing Piece and Roof Profile Elevation View to immediately run production
- Steel beam tool according to EN 10365 (DIN 1025 / 1026)
- Free beams with different cross sections such as I-joists, Rhombus, etc.
- Automatic Roof Package (interior and eaves boards, insulation, roof tiles, gutters)
- Automatic Dimensioning and Labelling (e.g. single and multiple)
- Automatic Labelling of components (lengths, sections, CNC numbers, etc.)
- Wood and Iron Lists computation for carpentry, areas, volumes, jack rafters, etc.
- 2D/3D Import/Export as AutoCAD (DXF e DWG), BIM (IFC), etc...
- 3D Export for a 3D exploration on any device as WebGL (for any web browser) and as 3D PDF (for on any PDF viewer)

