



Lignikon XL

the 3D CAD for Carpenters to build Roofs, Trusses and other Timber Structures

Advanced and flexible for the Construction and the Processing of Wooden Structures

**Within Lignikon XL you can design your plans completely freely,
or, you can simply decide to use the Roofs Wizard**

In both cases, the result will be identical, although it should be highlighted that thanks to the drawing freedom, you can create floor plan shapes that have not been considered in the wizard.

The XL version offers a large number of joints and tools for the creation of complex structures such as Multi-Roofs, Trusses, Timber Frame Constructions, Farm Structures, Stables, Winter Gardens and particular Timber-Steel buildings.

Functions and Main Features

Augmented Easiness: parametric CAD for timber constructions, designed to work directly in 3D (in addition to 2D) and gain in time and easiness

Extremely easy to define roof pitches and their accurate framing

Assistant for Dormers, Skylights and Chimneys for a perfect Timber Framing

Eaves projection editor for an easy planning of new extensions

Rich library of downloadable roof tiles

Merging multiple roof pitches to help you create even more complex roofs

Help tools for copying, moving, rotating and mirroring components and groups, either with the mouse or numerically, e.g. for copying trusses or whole roofs

Multiple placement of Beams/Joists, Posts/Studs, Rafters and Collar Beams/Ties just setting fixed (forced) or self-adaptive (dynamic) interaxle spacing

Roof Pitches with special overhangs using the 'Slanted Fly Rafter'

Rafter sprockets/tails with one click

Parametric modelling of Studs, Knee Braces, Noggins, Plates and Wall Bracing for easily building frameworks and pergolas

Joints and machining: Controlled Cut, Deburring/Trimming, Tenons-Mortises, classic Half Lap joints between two elements, Hooked and Plain Scarf Joints, Step/Heel Notch Joints, Free/Multiple Birdsmouths, Break/Merge, Beam Profiling (Moulding), Marking, Notches/Grooves, Rebates, Chamfers and Slots

Steel beam tool according to EN 10365 (DIN 1025 / 1026)

Automatic Technical Drawings of Single Framing Piece and Roof Profile Elevation View

Automatic Roof Package (interior and eaves boards, insulation, roof tiles, gutters)

2D Dimensioning (single, multiple, chained, incremental...) in all views

Automatic Labelling of components in any 2D view or perspective

Timber/Iron lists computation with sections, lengths, areas, volumes etc. even for Excel

Free beams with different cross sections such as I-joists, Rhombus, etc.

Window and Door Editor for handling different geometries

2D/3D Import/Export as AutoCAD (DXF e DWG), BIM (IFC), etc...

3D Export as PDF and WebGL for a 3D exploration on any device

2D and 3D Export for modellers, renderers and other 2D and/or 3D CAD

