

# VisKon V7 3D-CAD/CAM



## Roof - Wall - Machine

### Flexibility & easy operation

- Works simultaneously in 2D and 3D
- Individual application of function and material presets
- Cutting and pasting in 2D and 3D, scaling in 2D from any background image
- Mirroring of individual building components
- Userfriendly Material editor for easy integration of existing material database

### Wood Schedules

- Optimization of wood schedules for the carpenter or the sawmill in the roof parts and rafter schedule, as well as in the form of component list, including metal fasteners
- Material lists with extensive functional capability, such as filtering according to type of construction element, self-defined sorting sequences, and manual post-production adjustment,
- Pricing for all lists at the touch of a button

### Construction Detail & Working Drawing

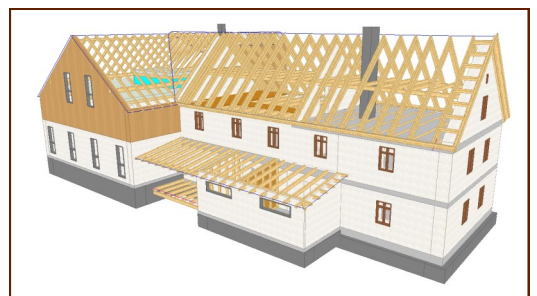
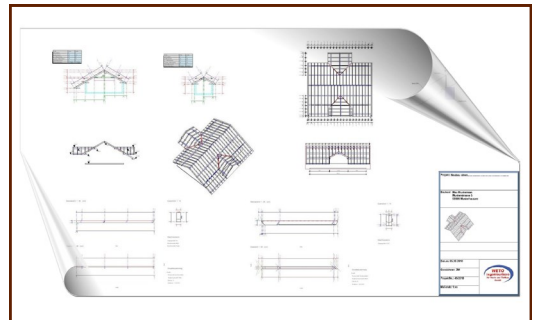
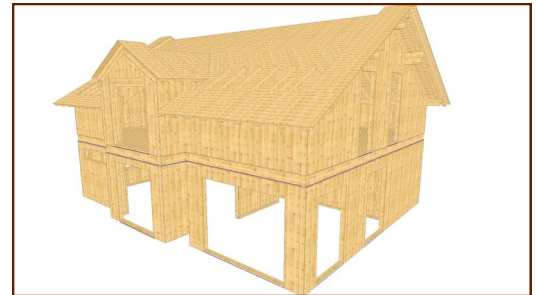
- Automatic labeling and free dimension of the 2D plans for woodworking, plan views, roof sections, building sections, and elevations
- 3D area calculation to produce 3D surfaces incl. 2D plans with automatic dimensioning
- All details can be generated at the touch of a button
- Combining all project plans
- Freely definable views of wood and steel components (for example for better cooperation with the metal worker)

### Presentation

- Improved terrain editor for more realistic planing
- Improved visualisation of windows and doors
- Introduction of textures for solid wall surfaces
- Wall hatching for solid walls
- Access to the catalogs of roof windows Velux and Roto

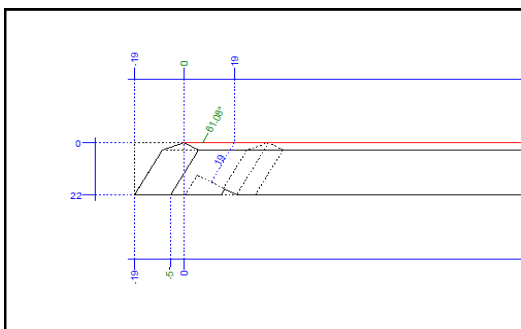
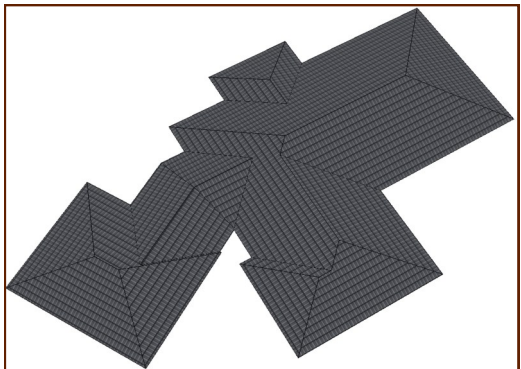
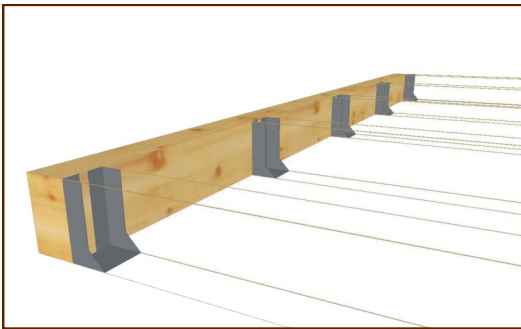
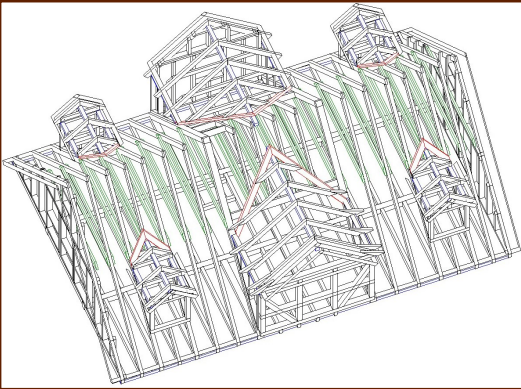
### Interfaces

- Import/Export: ArCon 2012
- Import/Export: 2D/3D DXF / 2D/3D DWG; Export: JPG/BMP- oder PDF
- Mass interface to the calculation software VisKalk
- Import/Export: Nemetschek Allplan 2013 (upcharge),
- Allowance Tool-Connection to Theodoliten, Leica, Hilti, Felxijet (upcharge)
- Connection to FriLo-Statik (upcharge)
- Interface to Vi2000 (upcharge)



### System Requirements

- Minimum hardware configuration: 2000 MHz Prozessor, 2 GB RAM memory, graphic card with min. 256 MB memory, ca. 500 MB available memory on harddrive
- Minimum software configuration: XP/Vista/Win7/Win8 (32-Bit / 64-Bit)



## Perfect & fast joinery

- Generate a roof in just six steps with help of the integrated roof assistant
- Custom floor plan input alternately to the roof assistant
- All profile settings for the roof may be determined with the aid of a user-friendly dialogues to select roof pitch, projections, or the various sections of roof members (such as rafters, purlins, chords ridge ties)
- View of the roof tile layout and calculation of exact coverage width
- Skylights and chimneys with automatic modifications
- Follow-up editing of all roof surfaces
- Any manufacturer of roofing tiles including associated types can be entered individually into the integrated tile catalog

## Generate roof dormers with assistants

- Separate dormer assistant with multiple dormer profiles such as: gambled dormers, hipped dormers, shed dormers, trapezoidal dormers, triangular dormers with custom layout parameters
- All changes automatically executed by directly setting dormer in the roof plane, generating posts and sills in one step
- Automatically generate wood member selection for eyebrow dormers and round dormers

## Intuitively set header & rafter locations

- Design joist and rafter layout by selecting fixed or variable centreline spacing
- Generate joist layout horizontally or in any plane
- Efficient creation of rafter positions thanks to various copy options
- Modeling of oblique flight rafters

## Custom structural design

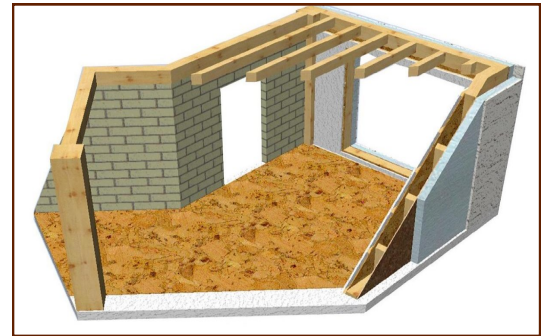
- Complex structures with custom wood or steel beams at any depth
- Catalogs with steel beam profiles according to DIN
- Creating curved wood

## Wood joinery details

- Achieve highly accurate preliminary designs for fabrication by locating a range of wood joints
- Among the possibilities are the positioning of beam end profiles, splices, dowels, dovetail tenons, gerber joints, setting boards with nuts and splices, etc.
- Selection of building components in 3D by pulling up a three-dimensional volume for further development

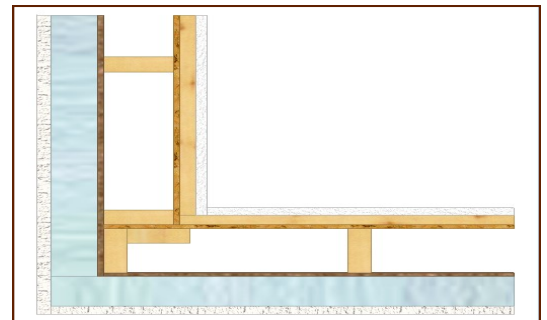
## Custom Wall & Ceiling Definition

- Define walls with up to ten layers of studs, boards, battens, sheathing, or planks
- Polygonal multi-layer ceiling with up to ten layers
- 3D preview supports the work process
- Separation of horizontal and vertical wall and ceilings
- Openings in solid walls and ceilings
- Automatic copying of storeys



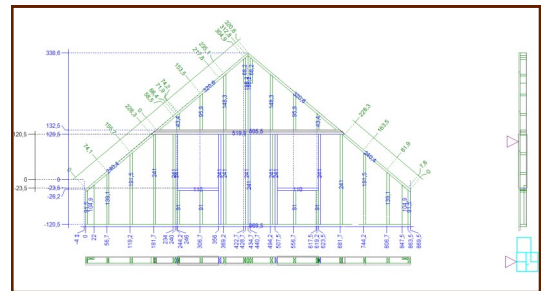
## Custom-defined connection system

- Corner systems and connections for the respective wall assembly can be freely defined
- Additional corner studs with custom-defined section profile



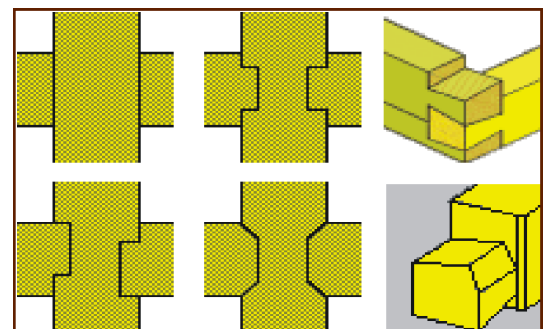
## Acquisition of wall definition & flexible development

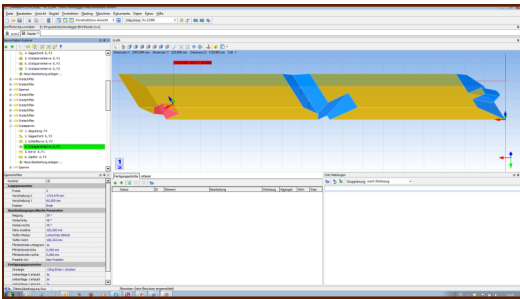
- Input of windows and doors in 2D or 3D in real-time view
- Intersection of walls with the pre-set corner definition and setting the header parameters for openings
- Custom segment division for stud walls, automatic and manual separation into different selectable divisions
- Create wall components with the aid of assigned layer definition, either all walls in common or individually
- Kollisionserkennung bei Stielen mit Öffnungsfüllstielen
- Paketieren der Wände für die Listenausgabe
- Autom. Markieren der Stiele auf Schwellen und Rähmen für die Fertigung



## Planks with notched connections

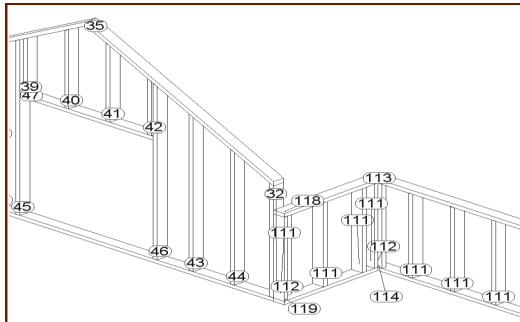
- Settings for plank parameters
- Notching of all kinds possible: notching with different thicknesses in layered walls, "Tiroler schloss", dovetail, tenon
- Joints and glides within the notches taken into account
- Symmetric and asymmetric notch depth settings from outside using tolerances
- Insert vertical drill holes on the jointed sides
- Create round planks for manual joining using automatic wood frame construction for visualization





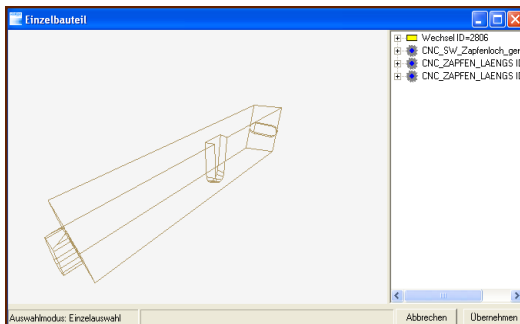
## Perfected transfer to joinery machine

- With a few clicks of the mouse, transfer the object created to the desired CNC-controlled manufacturing plant
- Additional generating compounds such as hook blade, pin holes, burrs, etc. with subsequent transfer to the joinery machine
- Save the created connections in the desired format according to the type of machine



## CNC-position numbering

- Multiple options for indexing building components guarantees trouble-free production process
- Individual output of levels, phases, layers or complete projects possible
- Unique location position of the component by CNC position numbers



## 3D Labelling

- Free 3D perspective drawing of building by inputting angle and tilt of view
- Insertion of building component numbers and labelling into perspective
- Colour coding according to type of component
- Automatic recognition of building components by component name

## Building component collision control

- Recording of missing connections or oversights in the structure, so that mistakes in fabrication can be kept to a minimum
- Automatic oversight with a marker symbol that can be displayed or hidden on command



## Supported joinery machines

- Systems supported: Hundegger, Schmidler, Krüsmatic, Weinmann and Auer
- Information on control using other CNC systems on request

## Cambium-Interface of the Fa. Hundegger

- Support of the new production platform for all Hundegger machines(\* BVX format)



### More information

If you require more information or are interested in a demonstration, feel free to call us at: +49 (0) 8504 9229-0  
Or send us an e-mail at: [info@weto.de](mailto:info@weto.de). Current information is always available online at: [www.weto.de](http://www.weto.de).