Allplan 2009
Timber Construction Machine Control

NEMETSCHEK Allplan

Machine output for the timber construction production module

From the idea to CNC
With the timber construction module, you can experience the perfect interplay of solid and timber construction. No more toing and froing between several programs; all stages of your work take place within Allplan. Project data only have to be entered once. This saves time, reduces the risk of error and therefore your design and production costs.

Design and construct using true measurements
By using this timber construction module, you can be sure that your bills of quantity and tenders always correspond with the actual dimensions. Without further input, you can now create the production drawings and machine data.

Greater depth of detail
The production module of our timber construction module combined with the absolute ease of operation within Allplan, allows you to create even the most complex timber structures directly from Allplan – right up to machine control.

System Requirements

Software Minimum Requirements
- Intel pentium III or compatible
- 1 GB RAM
- 5 GB Free Hard Disc
- Graphic Card 1280 x1024 Pixel and 128 MB Graphic Card Memory (the graphics card must be capable of handling DirectX9.0)
- E-Mail or USB connection
- DVD-ROM drive

Software Minimum Requirements
- Windows XP Home, Service Pack 3 or
- Windows Vista, Service Pack 1

You will find our **recommended system requirements** as well as further **product informations** at **www.allplan.com or www.weto.de**

Individual layer and corner definitions	Create wall definitions and the associated corner definitions for up to ten layers as columns, boards, laths, insulation, formwork or blockwood planks. Every stage of work can be previewed in three dimensions. This is a very simple and convenient way to set up these definitions.
Transfer of wall definitions and flexible processing	The layer definitions are assigned to drawn walls by means of a dialog box. In the same step you can also cut out walls using the same corner definitions and define the trimming parameters for openings. Walls can be designed using the layer definitions assigned to them. Here, all the walls can be designed together or individually. For the processing stage, the module can display collisions of posts with opening posts, the packetizing of the walls for the list output and the marking of the posts on the thresholds and frames for fabrication.
Intuitive creation of beams	Work with your mouse or by entering dimensions to create beams running horizontally or in any desired plane. You can choose whether to work in a regular or variable axis pattern. Any modifications to the parameters made in the dialog box are immediately displayed in Allplan, which minimizes data entry errors.
Custom design by creating any type of component	Creating custom timber components in any plane allows you to realize complex structures. The following variants are available: Beams freely positioned on connecting side, beams at right angles on connecting side and beams parallel on connecting side. With the “beam freely positioned on connecting side” you can define the position by entering the dimensions. You can also insert steel beams from a catalog at this stage. Steel beams are created in a similar way to timber beams and allow the user to work intuitively.
True to detail design and production in timber construction	A high degree of pre-planning for the fabrication phase can be made using the vast range of available timber connections. You can also prepare the timber construction project for the production phase using further tools specifically intended for timber construction. Among the possibilities during fabrication is the specification of beam end profiles, parallel tenons, wedged dovetail tenons, halving and skew-notch joints.
Output of dimensions at the touch of a button	Calculate timber construction dimensions at the touch of a button. Using these dimensions, you can calculate the value of the required insulation volume, the insulation area of walls, and the quantities of posts and boards in linear and square meters respectively. Timber lists can also be produced in a similar way for the joiner or sawmill. These dimensions are calculated in accordance with the applicable timber construction rules.
Component drawings and production plans	The module automatically produces dimensioned component drawings and wall elevations, which you can send directly to the producer. The component drawing contains all the relevant dimensions and machining angles to ensure the optimum cut (joint) is achieved. The wall elevations can be subdivided for each wall into the individual wall layers. The view is dimensioned in the most appropriate manner for the particular type of component.
Machine control at the touch of a button	With just a few mouse clicks you can transfer the objects created in the Allplan 2009 Timber Production module to the desired CNC-controlled production plant. The connections created in the production module are automatically saved by machine type in the desired format. Hundegger, Schmidler, Krüsimatic, Weinmann and Auer machines are supported. Control for further CNC machines are available on request.
Component collision control	The component collision control function reveals missing joints and inadvertent errors in the design. These are highlighted automatically with a marker which you can show or hide as you wish. This feature helps to keep actual production errors to a minimum.
CNC item numbering	Several component numbering options are provided to ensure that the production process runs smoothly. Output can be based on drawing files or across the entire project. The CNC item numbers allow for unique identification of components and their position, thus enabling error-free assembly.