

Truss4 version 10

Fine Ltd. is pleased to announce the release of the new version 10 of Truss4 software. This version fixes some errors (better division of arch trusses, improved general stability of the software) and also brings following new features:

National annex for Austria

The support of Austrian standards ÖNORM B EN 1990-1, ÖNORM B EN 1991-1-1, ÖNORM B EN 1991-1-3, ÖNORM B EN 1991-1-4 and ÖNORM B EN 1995-1-1 was added into programs. These standards correspond to the national annexes to Eurocodes.

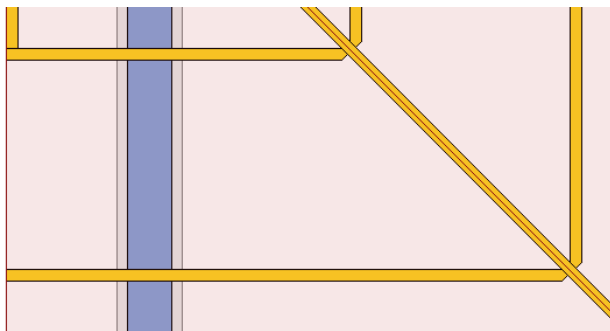
The eccentricities of anchorage areas (chapter 8.8 in ÖNORM B EN 1995-1-1) are considered as additional bending moments during nail plate design.

End cuts

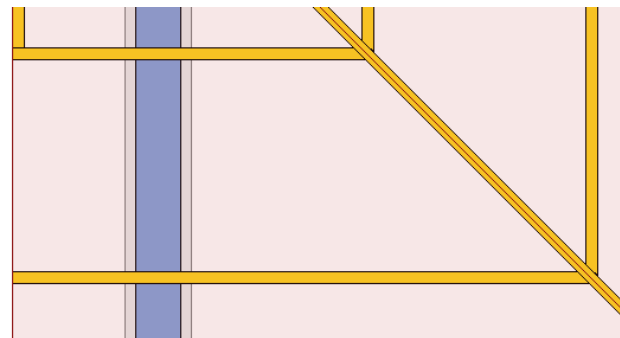
End cuts can be created in the software „**Truss 3D**“. These cuts appear at the ends of extended rafters and bottom chords and the angle corresponds to the angle between connected trusses. These cuts can be processed by some saw machines (e.g. Hundegger, Weinmann) during truss manufacturing. Such production reduces assembly time on site.

End cuts can be switched on in the window „**Common settings**“ in the tab „**Mounting**“. The end cuts contain following settings:

The setting „**Symmetrical detail for single cut**“ creates symmetrical double cut instead of single cut. These trusses can be used both on the left and right sides of the structure. Otherwise, left and right trusses have to be manufactured.

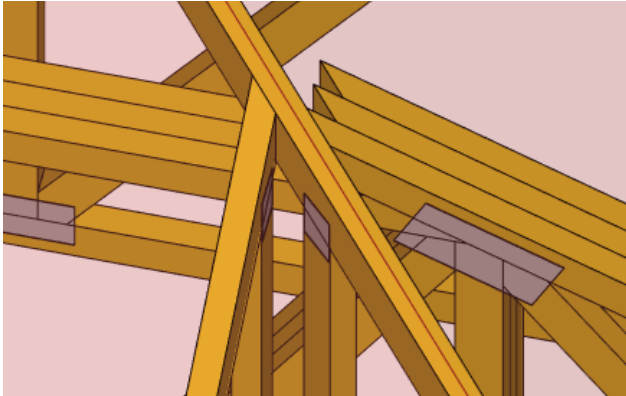


Symmetrical double cut

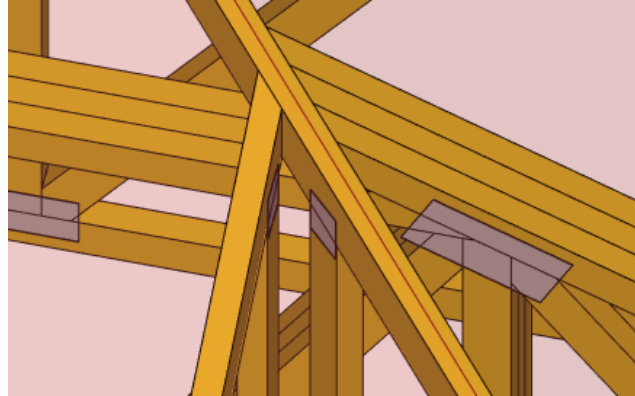


Different single cuts on the left and right sides

The geometry of particular plies in multi-ply girders can be affected by the setting „**All plies identical in multi-ply girders**“. If the setting is switched on, all plies are identical. Otherwise, every ply has different length. This setting affects only girders with single cuts.



Identical plies in multi-ply girder



Different plies in multi-ply girder

Extended options for manufacturing documentation and saw exports

Significant changes were made in production documentation and saw processing. The cutting bill can be divided up to three different parts, every part can be processed using different type of saw machine. The parameters which affect this behaviour are placed in the window "**Application options**", tabs "**Saw settings**" and "**Documentation**".

The tab "**Saw settings**" contains an option to divide cutting bill according to characteristics of saw machines (blade diameter etc.) or user-defined preferences (series factor). Three saw machines can be used for timber processing:

- **Primary** – The most preferred saw machine. If used, the software tries to assign maximum of timber members to this saw. Only members which don't suit given conditions (series factors, saw characteristics) are assigned to secondary saw or to saw for remaining members.
- **Secondary** – If used, the software tries to assign maximum of timber members, which didn't suit conditions for primary saw. The remaining members are automatically assigned to saw machine for other members.
- **Others** – All members which didn't fulfill conditions given for primary or secondary saw machine are assigned to this saw machine. This saw can not be switched off. It is used for all members if primary and secondary saws are not used.

The setting "**Optimization for format**" rotates or mirrors member geometry according to preferences of selected saw machine. The table "**Parameters of saw exports**" can be used for division of export files according to cross-section dimensions or maximum count of members.

The export files are created according to these setting, if the link "**File**" - "**Export**" - "**Saw export**" - "**Advanced saw export**" in the main menu is used. Other options in the part "**Saw export**" produce files with complete list of members.

The tab "**Documentation**" allows user to divide documentation in the same way as saw exports. The member description can be modified according to dimensioning style of corresponding saw machine.

As the range of these new settings is wide, we recommend to contact software support for finding correct settings for production.

Application options

Project Saw settings Documentation

Use saw settings in outputs and exports

Saw1 - primary Saw name DePauw

Optimization for format Depauw

File formats

XLS PRG BVN SBS BTL DPW

Maximum angle of saw blade positioning 85,000 [°]

Maximum cut length 600 [mm]

Maximum member length [mm]

Minimum member length 1000 [mm]

Speciální přřezy wedges arches end cuts

Minimum series factor 10

Saw2 - secondary Saw name CT 600

Optimization for format Stromab

File formats

XLS PRG BVN SBS BTL DPW

Maximum angle of saw blade positioning 80,000 [°]

Maximum cut length 600 [mm]

Maximum member length [mm]

Minimum member length [mm]

Speciální přřezy wedges arches end cuts

Minimum series factor

Saw3 - others Saw name K2

Optimization for format

File formats

XLS PRG BVN SBS BTL DPW

Parameters of export files

Export file format	Divide acc. to section	Count per file	
		limit	maximum
XLS	<input type="checkbox"/>	<input type="checkbox"/>	
PRG	<input type="checkbox"/>	<input type="checkbox"/>	
BVN	<input type="checkbox"/>	<input type="checkbox"/>	
SBS	<input type="checkbox"/>	<input type="checkbox"/>	
BTL	<input type="checkbox"/>	<input type="checkbox"/>	
DPW	<input type="checkbox"/>	<input type="checkbox"/>	

Additional settings

Create XLS file for K2 software

Create calculations in XLS file

Shared settings

Cut only feasible cuts otherwise skip the member

Use member description

Description style for Hundegger BVN

complete - identical to manufacturing documentation

OK Cancel

Primary saw is DePauw. Members, which does not suit conditions of primary saw (series factor, minimum length, blade angle and diameter) should be assigned to secondary saw (CT 600). The members which does not suit conditions for CT 600 (angle, cut length) are processed using K2 saw machine

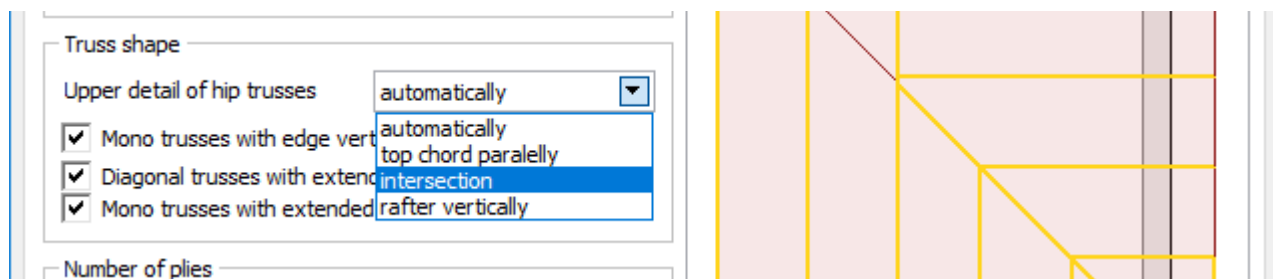
Extended table in "Truss check"

The table of trusses in the part "Truss check" of "Truss 3D" contains new columns (truss thickness, ply, factor k_{sys}).

Choice of detail in step down hip

Step down hip contains an option to define cut style in upper details of hip trusses. Following options can be selected:

Automatically	<ul style="list-style-type: none"> The style defined in default settings for upper detail is used (behaviour used in previous versions).
Top chord paralelly	<ul style="list-style-type: none"> Sets the cutting style "Paralelly"
Intersection	<ul style="list-style-type: none"> Sets the cutting style "Intersection"
Rafter vertically	<ul style="list-style-type: none"> Extends rafters to the extended rafters of corner trusses.



Choice of upper detail in step down hip

New printing window

The printing window was redesigned. New window supports display of more pages in the same time or text selection from more pages.