NEW
to our product range

Magnus wood connector

Aluminium wood connector for beam suspension

Europ. Techn. Bewertung
European Technical Assessment
ETA-15/0761

Suitable for nearly all fields of timber construction.

The Magnus wood connector is developed for the construction of node connections. This kind of connection has the big benefit, that it can be completely prefabricated, enabling quick and simple connections onthe construction site. The connector consists of 2 different construction elements, timber construction screws and fixing screws. The 2 construction elements of Magnus are installed on the individual building elements and fastened with the included timber screws and afterwards simple and smoothly slid into place. In conclusion the fixings screws are inserted to pull the parts together and the position security of the connector is secured.
The connection made by Magnuns can be statistically loaded into 5 directions with high tested and certified values. Installation can therefore be both visible (for broad root with chamfer connections)

Installation instructions

Hidden (milled-in) main/secondary beam joints

1. Adjust the end stop of the milling and assembly jig to the desired size of the Magnus hook connector, apply and screw on the milling and assembly jig, and create a routed slot with the corresponding groove-milling cutter.
2. The Magnus is then inserted into the routed slot and fastened in place using the supplied system screws. Following this, the milling and assembly jig is placed in the same position as before on the component that is to be connected, and the second part of the Magnus hook connector is screwed on.
   Pre-assembly is now complete, and the component being connected is hooked in place.
3. The fixing screws are then inserted into the Magnus.
   This pulls the Magnus hook connector together, if necessary, and ensures correct positioning of the node joint.

Installation can be both visible (for shadow-groove joints) and hidden (milled in). The assembly example shows hidden installation.
In this type of installation, there is no need to mill out a slot, and the milling and assembly jig is used only as an assembly jig.

Magnus XS

Aluminum

Art.-No.	Description	PU	Included in delivery
944874	Magnus XS, 30 x 30 mm	40 (=20 connections)	120 pcs fully-threaded screws TX15 1), 20 pcs fixing screws TX15 2), 1x assembly instruction

1) 4,0 x 30 mm, blue galvanized, 2) 4,2 x 26 mm, blue ganvanized

Magnus L

Aluminum

Art.-No.	Description	PU	Included in delivery
944883	Magnus L, 110 x 260 mm	8 (=4 connections)	68 pcs fully-threaded screws TX30 1), 8 pcs fixing screws TX20 2), 1x assembly instruction
944883	Magnus L, 110 x 260 mm	8 (=4 connections)	80 pcs fully-threaded screws TX30 1), 8 pcs fixing screws TX20 2), 1x assembly instruction

1) 8,0 x 120 mm, blue galvanized, 2) 4,8 x 60 mm, blue ganvanized

milling and assembly

for Magnus wood connector

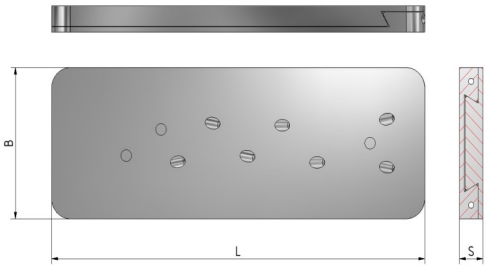
Art-No.	Consistent with	PU
944867	Magnus XS	1
944870	Magnus L	1

milling cutter

for Magnus wood connector

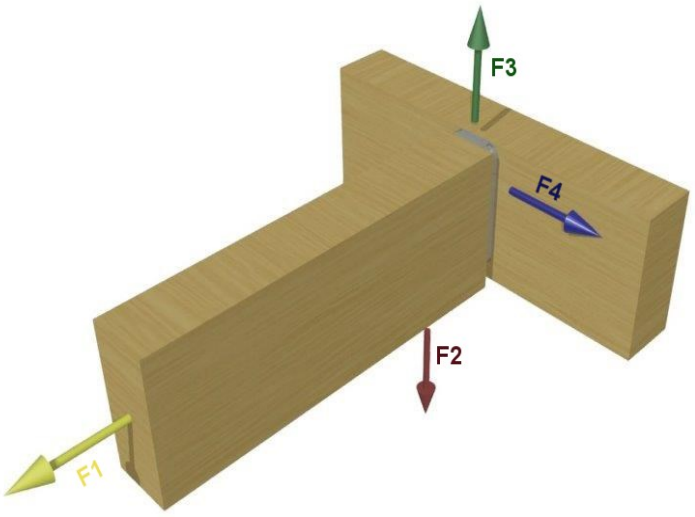
Art-No.	Consistent with	PU
944936	Magnus XS	1
29696	Magnus L	1

Technical data



fully-threaded screw

fixing screw



Art.-No.	Description	Dimensions B x L x S a)	Pcs. fully-threaded screw	Pcs. fixing screw	Main-beam		Secondary-beam		Char. Value for the load bearing capacity Rk b)			
					min. width [mm]	min. height [mm]	min. width	min. height	$F_{1,Rk}$ [kN]	$F_{2,Rk}$ [kN]	$F_{3,Rk}$ [kN]	$F_{4,Rk}$ [kN]
944874	Magnus XS	30 x 30 x 9	6	1	40	40	40	40	1,12	1,57	1,70	1,19
944883	Magnus L	110 x 260 x 19	17	2	120	280	120	280	13,93	45,13	23,00	17,98
944884	Magnus L	110 x 300 x 19	20	2	120	320	120	320	13,93	54,15	23,00	20,56

Please note: These are planning aids. Project must only be calculated by authorised persons.