

# Atlas wood connector

The node connection for beam suspension



## What can it be used for?

- Can be used for almost all areas of timber construction, regardless of the timber's grain direction, i.e. vertically and horizontally!
- Secondary and main beams
- Secondary beam support
- Bolt construction
- Hall construction
- Façade construction
- Conservatories

#### **Advantages**

- Quick and simple connections
- Consists of two identical parts that can be slid inside each other smoothly without restraint
- Can be statically loaded in four directions with high tested values

## Assembly

- Installation can be both visible (for shadow-groove connections) and invisible (milled in).
- System screws and the suitable DUO bit are included in the delivery.
- See the installation instructions on p. 160





#### Atlas wood connector







**Set 1** Art.-Nr. 30126

Assembly instructions

- 40 x Atlas HF 100 (= 20 pairs) Screws are included with this product
- 1 x Timber milling & assembly
- 1 x Milling cutter

Set 2 Art.-Nr. 30136

- 40 x Atlas HF 135 (= 20 pairs) Screws are included with this product
- 1 x Timber milling & assembly
- 1 x Milling cutter





Art. no.	Suitable for	PU
29658	Atlas HF 70	1
29657	Atlas HF 100	1
29660	Atlas HF 135	1
29661	Atlas HF 170	1
29659	Atlas HF 200	1

#### **Milling cutter**

For Atlas wood connector



Art. no.	Suitable for	Shaft diameter [mm]	PU
29676	Atlas HF 70	8,00	1
29686	Atlas HF 100, HF 135, HF 170	8,00	1
29696	Atlas HF 200	8,00	1



## Assembly

Simply set the stopper for the template to the required size of the Atlas wood connector, put the template in place, fix it and cut out the pocket with the corresponding groove miller.

The Atlas is then set into the milled recess and fastened with the supplied system screws. The template is then placed in the same setting on the component that is to be connected and the identical second part of the Atlas wood connector is screwed in place. Pre-assembly is now complete and the component to be connected is suspended in place.

In conclusion, the fixing screw is inserted into the Atlas. In this way the Atlas wood connector is pulled together, if necessary, and the position security of the hook connector is guaranteed. THAT'S IT!

The installation can therefore be both visible (for broad root with chamfer connections) and invisible (milled recess). The above assembly example shows the invisible installation. With visible installation, there is no need for milling and the template is only used as an assembling jig.





# Technical data



	Ada,			Secondary beam		Load F1	Load F3	Load F2 and F4	
	Atias permitted value				min. width	min. height	Char. value of the load-bearing capacity $R_{\!\scriptscriptstyle k}^{\scriptscriptstyle (n)}$		Char. value of the load-bearing capacity $R_{\!\scriptscriptstyle k}^{\scriptscriptstyle \alpha)}$
Art. no.	Туре	L	W	S	[mm]	[mm]	[kN]	[kN]	[kN]
30036	70	70	30	9	50	80	6,80	2,00	4,40
30056	100	100	50	12	80	115	17,40	8,56	10,60
30076	135	135	50	12	80	150	26,70	8,56	15,00
30096	170	170	50	12	80	185	33,40	8,56	16,00
30116	200	200	70	17	100	200	43,00	19,15	22,70

Calculation according to ETA-12/0068. Wood density  $\rho_k$ = 350 kg/m<sup>3</sup>. All echanical values provided should be viewed as subject to the assumptions that have been made and represent example calculations. All values are calculated minimum values and are subject to typographical and printing errors. a) The characteristic values of the load-bearing capacity  $R_k$  should not be treated as equivalent to the max. possible load (the max. force).

Characteristic values of the load-bearing capacity Rs should be reduced to dimensioning values Rs with regard to the usage class and class of the load duration: Rs = Rs x kmd / ym.

The dimensioning values of the load-bearing capacity  $R_d$  should be contrasted with the dimensioning values of the loads ( $R_d \ge E_d$ ).

Final microsofting values of the load Equal (clocking capacity is also a be contacted with the load) to a standing value of the load ( $q = 2, 0, 0, 1, 35 = 3, 00 \cdot 1, 5 = 7, 20 \text{ kN}$ . The load-bearing capacity of the joint is therefore considered to have been demonstrated i  $R_d \ge E_d$ .  $\rightarrow$  min  $R_d = R_d \cdot \gamma_M / k_{mod}$ D.h., i.e. the characteristic minimum value of the load-bearing capacity is calculated based on: min  $R_d = R_d \cdot \gamma_M / k_{mod}$ .

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