

# Heavy-duty HVP 88460



## Application

Heavy-duty concealed beam connector for wood-wood connections.

## Product Specifications

<b>Dimensions w x h x d</b>	120 x 600 x 20
<b>Number of screws</b>	48
<b>Screw size</b>	ø 8 x 100 – 200
<b>Minimum timber section with screw ø 8 x 160 (mm) header</b>	170 x 620
<b>Joist</b>	140 x 620
<b>Characteristic load capacity* ø 8 x 160</b>	251.44
<b>ø 8 x 200</b>	311.05
<b>Carton quantity</b>	4
<b>CE</b>	*

\* F<sub>2,Rk</sub> (kN) for GL24h with fully threaded screws: ø 8 x 160 with effective thread length of 150 mm and ø 8 x 200 with effective thread length of 190 mm. For other screws and thread lengths or wood based materials: cf. design manual.

## Product Description

### Main and secondary beam connection wood to wood

Main and secondary beam connection wood to wood with PITZL HVP 88460.1000 according to ETA-15/0187. The connection to secondary beam with 24 SFS HT (Heco) screws with a diameter of 8.0 mm and a length of 160/180/200 mm. Connection to main beam with 24 SFS HT (Heco) screws with a diameter of 8.0 mm and a length of 160/180/200 mm. The lift-off protection with 2 pcs. SFS HT cylinder head screws with a diameter of 6.0 mm and a length of 20 mm is required. A transverse tension lock is/is not to be provided in the area of the main/secondary beam. The main beam is/is not torsional fixed or sufficiently held. The serviceability has to be proven by the stiffness characteristics. A fire resistance time of 60 minutes is to be solved by appropriate design measures.

### The characteristic load bearing capacity according to timber strength class C24 are:

F<sub>1,Rk</sub> = 48.32 / 54.09 / 59.78 kN – Force acting in direction of the secondary beam  
 F<sub>2,Rk</sub> = 232.98 / 260.76 / 288.21 kN – Force acting in direction of insertion  
 F<sub>3,Rk</sub> = 36.40 kN – Force acting against direction of insertion  
 F<sub>4,Rk</sub> = 77.45 kN – Force acting perpendicular to direction of insertion  
 M<sub>tor,J,Rk</sub> = 6870.46 kN – Rotation moment in the axis of the secondary beam

### The characteristic load bearing capacity according to timber strength class GL24h are:

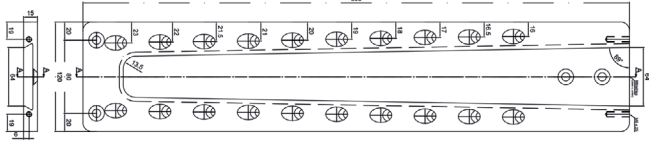
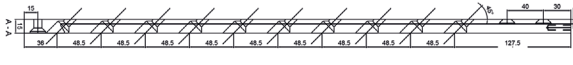
F<sub>1,Rk</sub> = 52.15 / 58.37 / 64.52 kN – Force acting in direction of the secondary beam  
 F<sub>2,Rk</sub> = 251.44 / 281.42 / 311.05 kN – Force acting in direction of insertion  
 F<sub>3,Rk</sub> = 36.40 kN – Force acting against direction of insertion  
 F<sub>4,Rk</sub> = 81.23 kN – Force acting perpendicular to direction of insertion  
 M<sub>tor,J,Rk</sub> = 7205.80 kN – Rotation moment in the axis of the secondary beam


The number and arrangement of the connectors as well as the installation and assembly must be taken from the specifications in accordance with ETA-15/0187. Basically, the requirements of DIN EN 1995 must be fulfilled.

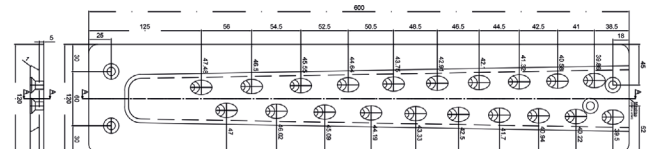
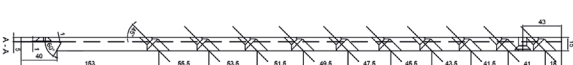
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## Static Values

Effective thread length ( $\ell_{ef}$ )		Minimal section (mm)		Characteristic load capacity $R_k$ (KN)							
				Solid wood C24 ( $\rho_k = 350 \text{ kg/m}^3$ )				Glued-laminated timber GL24h ( $\rho_k = 385 \text{ kg/m}^3$ )			
Screws	$\ell_{ef}$ (mm)	H	J	$F_{2,RK}$	$F_{3,RK}$	$F_{4,RK}$	$F_{1,RK}$	$F_{2,RK}$	$F_{3,RK}$	$F_{4,RK}$	$F_{1,RK}$
$\varnothing 8 \times 160$	150	170 x 620	140 x 620	232.98	36.40	77.45	48.32	248.82	36.40	80.70	51.61
$\varnothing 8 \times 180$	170	190 x 650	140 x 650	260.76			54.09	278.49			57.76
$\varnothing 8 \times 200$	190	210 x 680	140 x 680	288.21			59.78	307.81			63.85

(Erstellt) <b>Autret</b>	(Datum) <b>30.09.2014</b>	(Werkstoff) <b>EN AW 6082</b>	nach	(Maßstab)
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Ind. Änderung	Datum	Name	(Benennung)	
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		<b>88460.0000 Teil 1</b>		<b>/</b>

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