

# HVP 88560



#### Application

Heavy-duty concealed beam connector for wood-wood connections. The width of 140 mm is optimally suitable for wide beams (from 170 mm) under very high loads.

#### **Product Specifications**

140 x 600 x 20
64
ø 8 × 100 – 200
170 x 620
170 x 620
352.01
435.47
4
*

\* F2,Rk (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. Screws up to 200 mm length and the expanded heavy-duty series 885 enable a high augmentation of the load capacity.

### **Product Description**

#### Main and secondary beam connection wood to wood

Main and secondary beam connection wood to wood with PITZL HVP 88560.1000 according to ETA-15/0187. The connection to secondary beam with 32 SFS HT (Heco) screws with a diameter of 8.0 mm and a length of 160/180/200 mm. Connection to main beam with 32 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:

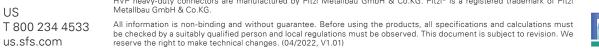
- F1,Rk = 48.32 / 54.09 / 59.78 kN Force acting in direction of the secondary beam F<sub>2,Rk</sub> = 326.17 / 365.06 / 403.50 kN – Force acting in direction of insertion
- F<sub>3,Rk</sub> = 36.40 kN Force acting against direction of insertion
- F<sub>4,Rk</sub> = 103.27 kN Force acting perpendicular to direction of insertion
- $M_{tor,J,Rk} = 8493.69 \text{ kN} \text{Rotation moment in the axis of the secondary beam}$

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

- F1, Rk = 52.15 / 58.37 / 64.52 kN Force acting in direction of the secondary beam
- F<sub>2,Rk</sub> = 352.01 / 393.99 / 435.47 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> = 108.31 kN Force acting perpendicular to direction of insertion
- $M_{tor,J,Rk} = 8908.25 \text{ kN} \text{Rotation moment in the axis of the secondary beam}$

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.

HVP heavy-duty connectors are manufactured by Pitzl Metallbau GmbH & Co.KG. Pitzl® is a registered trademark of Pitzl

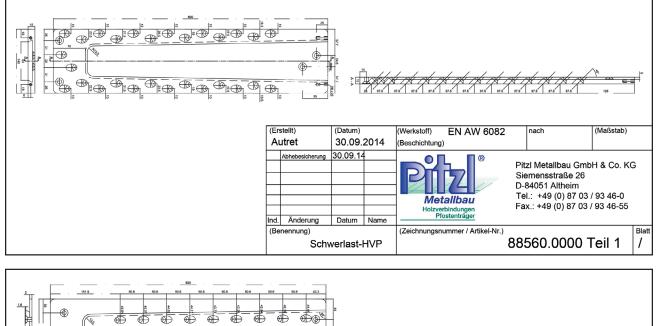


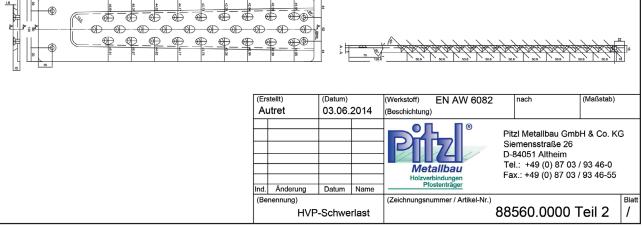


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#### **Static Values**

Effective thread length ( $\ell_{ef}$ )		Minimal see	ction (mm)	Characteristic load capacity $R_{\kappa}$ (KN)							
	Solid wood C24 ( $\rho_k = 350 \text{ kg/m}^3$ )			Glued-laminated timber GL24h ( $\rho_k = 385 \text{ kg/m}^3$ )							
Screws	ℓ <sub>ef</sub> (mm)	Н	J	F <sub>2,RK</sub>	F <sub>3,RK</sub>	F <sub>4,RK</sub>	F <sub>1,RK</sub>	F <sub>2,RK</sub>	F <sub>3,RK</sub>	F <sub>4,RK</sub>	F <sub>1,RK</sub>
ø 8 x 160	150	170 x 620	170 x 620	326.17	36.40	103.27	48.32	348.35	36.40	107.60	51.61
ø 8 x 180	170	190 x 650	170 x 650	365.06			54.09	389.89			57.76
ø 8 x 200	190	210 x 680	170 x 680	403.50			59.78	430.94			63.85





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