

Heavy-duty HVP 88445



Application

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

Product Specifications

Dimensions w × h × d	120 x 450 x 20			
Number of screws	36			
Screw size	ø 8 x 100 – 200			
Minimum timber section with screw ø 8 × 160 (mm) header	170 x 470			
Joist	140 x 470			
Characteristic load capacity* ø 8 × 160	pad capacity* 176.01			
ø 8 x 200	217.73			
Carton quantity	4			
CE	*			

* 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.

Product Description

Main and secondary beam connection wood to wood

Main and secondary beam connection wood to wood with PITZL HVP 88445.1000 according to ETA-15/0187. The connection to secondary beam with 18 SFS HT (Heco) screws with a diameter of 8.0 mm and a length of 160/180/200 mm. Connection to main beam with 18 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:

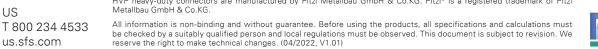
- F1,Rk = 48.32 / 54.09 / 59.78 kN Force acting in direction of the secondary beam
- F_{2,Rk} = 163.09 / 182.53 / 200.75 kN Force acting in direction of insertion
- F_{3,Rk} = 36.40 kN Force acting against direction of insertion
- F_{4,Rk} = 58.09 kN Force acting perpendicular to direction of insertion
- Mtor, J, Rk = 3920.91 kN 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_{2,Rk} = 176.01 / 196.99 / 217.73 kN Force acting in direction of insertion
- F_{3,Rk} = 36.40 kN Force acting against direction of insertion
- F_{4,Rk} = 60.92 kN Force acting perpendicular to direction of insertion
- $M_{tor,J,Rk} = 4112.28 \text{ kN} \text{Rotation moment in the axis of the secondary beam}$

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.

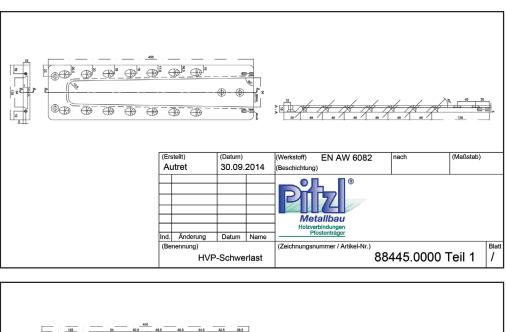
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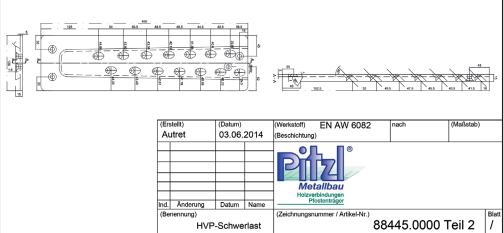




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Effective thread length (ℓ_{ef})		Minimal section (mm)		Characteristic load capacity R_{κ} (KN)							
				Solid wood C24 (ρ _k = 350 kg/m ³)				Glued-laminated timber GL24h ($\rho_k = 385 \text{ kg/m}^3$)			
Screws	ℓ _{ef} (mm)	Н	J	F _{2,RK}	F _{3,RK}	F _{4,RK}	F _{1,RK}	F _{2,RK}	F _{3,RK}	F _{4,RK}	F _{1,RK}
ø 8 x 160	150	170 x 470	140 x 470	163.09	36.40	58.09	48.32	174.18	36.40	60.53	51.61
ø 8 x 180	170	190 x 500	140 x 500	182.53			54.09	194.94			57.76
ø 8 x 200	190	210 x 530	140 x 530	201.75			59.78	215.47			63.85





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