

Heavy-duty HVP 88455



Application

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

Product Specifications							
Dimensions w x h x d	120 x 550 x 20						
Number of screws	44						
Screw size	ø 8 x 100 – 200						
Minimum timber section with screw ø 8 × 160 (mm) header	170 × 570						
Joist	140 × 570						
Characteristic load capacity* ø 8 × 160	226.29						
ø 8 x 200	279.94						
Carton quantity	4						
CE	*						

^{*} F2,Rk (kN) for GL24h with fully threaded screws: \emptyset 8 x 160 with effective thread length of 150 mm and \emptyset 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 88455.1000 according to ETA-15/0187. The connection to secondary beam with 22 SFS HT (Heco) screws with a diameter of 8.0 mm and a length of 160/180/200 mm. Connection to main beam with 22 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:

 $F_{1,Rk} = 48.32 / 54.09 / 59.78 kN - Force acting in direction of the secondary beam$

 $F_{2,Rk} = 209.68 / 234.68 / 259.39 \text{ kN}$ – Force acting in direction of insertion

 $F_{3,Rk} = 36.40 \text{ kN} - \text{Force acting against direction of insertion}$

F_{4,Rk} = 71.00 kN - Force acting perpendicular to direction of insertion

 $M_{tor,J,Rk} = 5879.75 \text{ kN} - \text{Rotation moment in the axis of the secondary beam}$

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

 $F_{1,Rk} = 52.15 / 58.37 / 64.52 \text{ kN} - Force acting in direction of the secondary beam$

F_{2,Rk} = 226.29 / 253.28 / 279.94 kN - Force acting in direction of insertion

 $F_{3,Rk} = 36.40 \text{ kN} - \text{Force acting against direction of insertion}$

F_{4,Rk} = 74.46 kN – Force acting perpendicular to direction of insertion

 $M_{tor,J,Rk} = 6166.73 \text{ kN} - \text{Rotation moment in the axis of the secondary beam}$

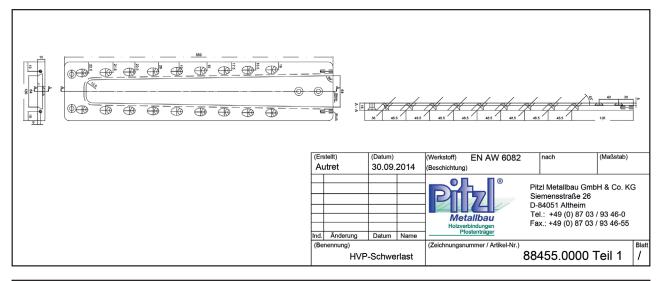
The number and arrangement of the connectors as well as the installation and assembly must be taken from the specifications in accordance with ETA-15/0187. Basically, the requirements of DIN EN 1995 must be fulfilled.

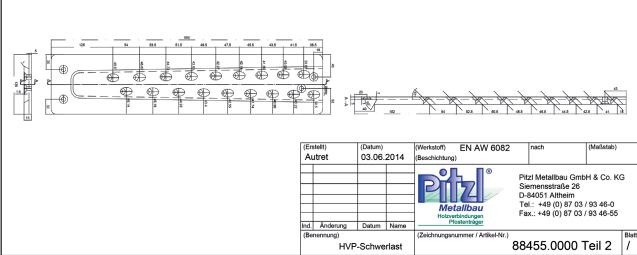




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Static Values											
Effective thread length ($\ell_{\rm ef}$)		Minimal section (mm)		Characteristic load capacity R _K (KN)							
				Solid wood C24 $(\rho_k = 350 \text{ kg/m}^3)$				Glued-laminated timber GL24h ($\rho_k = 385 \text{ kg/m}^3$)			
Screws	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 570	140 x 570	209.68	36.40	71.00	48.32	223.94	36.40	73.98	51.61
ø 8 x 180	170	190 x 600	140 x 600	234.68			54.09	250.64			57.76
ø 8 x 200	190	210 x 630	140 x 630	259.39			59.78	277.03			63.85







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