

HVP 88214



Application

Concealed beam connector for wood-wood connections.

Product Specifications

Dimensions w × h × d	60 x 140 x 12			
Number of screws	24			
Screw size	ø 5 x 60 – 100			
Minimum timber section with screw ø 5 × 60 (mm) header	70 x 160			
Joist	80 x 160			
Characteristic load capacity* ø 5 × 60	31.70			
ø 5 x 100	52.21			
Carton quantity	10			
CE	*			

* F2, Rk (kN) for GL24h with fully threaded screws: ø 5 x 60 with effective thread length of 54 mm and ø 5 x 100 with effective thread length of 94 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 88214.1000 according to ETA-15/0187. The connection to secondary beam with 12 SFS HT (Heco) screws with a diameter of 5.0 mm and a length of 60/80/100 mm. Connection to main beam with 12 SFS HT (Heco) screws with a diameter of 5.0 mm and a length of 60/80/100 mm. 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 = 15.23 / 20.23 / 25.09 kN Force acting in direction of the secondary beam
- F_{2,Rk} = 29.38 / 39.01 / 48.38 kN Force acting in direction of insertion
- F_{3,Rk} = 0.00 kN Force acting against direction of insertion
- F_{4,Rk} = 17.84 kN Force acting perpendicular to direction of insertion
- Mtor, J, Rk = 431.20 kN Rotation moment in the axis of the secondary beam

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

- F1,Rk = 16.44 / 21.83 / 27.07 kN Force acting in direction of the secondary beam $F_{2,Rk} = 31.70 / 42.10 / 52.21 \text{ kN} - Force acting in direction of insertion}$ F_{3,Rk} = 0.00 kN – Force acting against direction of insertion F_{4,Rk} = 18.71 kN – Force acting perpendicular to direction of insertion
- $M_{tor,J,Rk} = 452.24 \text{ kN} \text{Rotation moment in the axis of the secondary beam}$

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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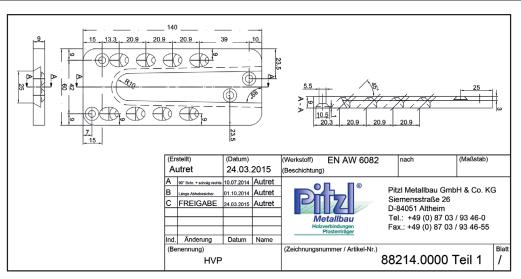
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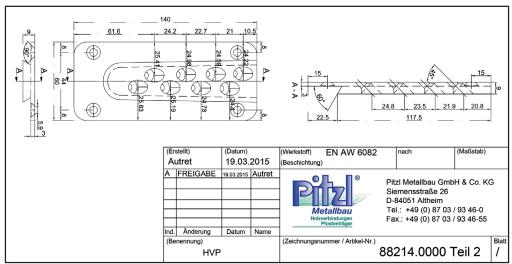


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Static Values

Effective thread length ($\ell_{\rm ef}$)		Minimal se	ction (mm)	Characteristic load capacity R_{κ} (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 5 x 60	54	70 x 160	80 x 160	29.38	0.00	17.84	15.23	31.37	0.00	18.59	16.27
ø 5 x 80	74	90 x 190	80 x 190	39.01			20.23	41.66			21.60
ø 5 x 100	94	110 x 220	80 x 220	48.38			25.09	51.67			26.79





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