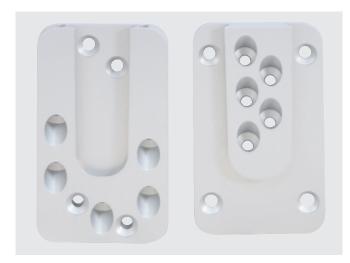
HVP 88210 with uplift protection



Application

Concealed beam connector for wood-wood connections.

Product Specifications

Dimensions w × h × d	60 x 100 x 12			
Number of screws	18			
Screw size	ø 5 x 60 – 100			
Minimum timber section with screw ø 5 × 60 (mm) header	70 x 120			
Joist	80 x 120			
Characteristic load capacity* ø 5 × 60	19.81			
ø 5 x 100	32.63			
Carton quantity	10			
CE	*			

* F2, Rk (kN) for GL24h with fully threaded screws: ø 4.5 x 50 with effective thread length of 45 mm and ø 4.5 x 80 with effective thread length of 74 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 88210.1000 according to ETA-15/0187. The connection to secondary beam with 9 SFS HT (Heco) screws with a diameter of 5.0 mm and a length of 60/80/100 mm. Connection to main beam with 9 SFS HT (Heco) screws with a diameter of 5.0 mm and a length of 60/80/100 mm. The lift-off protection with 2 pcs. SFS HT cylinder head screws with a diameter of 5.0 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 = 15.23 / 20.00 / 20.00 kN Force acting in direction of the secondary beam
- F_{2,Rk} = 18.36 / 24.38 / 30.24 kN Force acting in direction of insertion
- F_{3,Rk} = 13.38 kN Force acting against direction of insertion
- F_{4,Rk} = 13.38 kN Force acting perpendicular to direction of insertion
- Mtor, J, Rk = 257.23 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 / 20.00 / 20.00 kN Force acting in direction of the secondary beam
- F_{2,Rk} = 19.81 / 26.31 / 32.63 kN Force acting in direction of insertion
- F_{3,Rk} = 14.04 kN Force acting against direction of insertion
- F_{4,Rk} = 14.04 kN Force acting perpendicular to direction of insertion
- $M_{tor,J,Rk} = 269.79 \text{ kN} \text{Rotation moment in the axis of the secondary beam}$

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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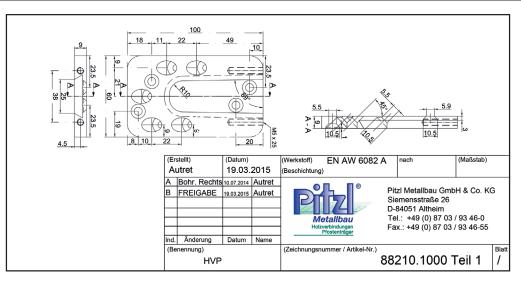
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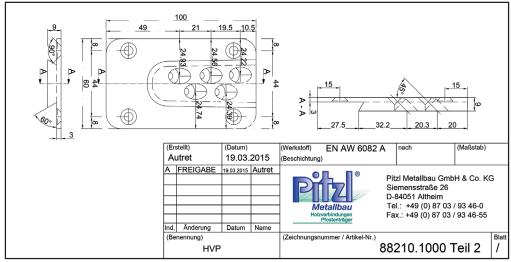
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Static Values											
Effective thread length (ℓ_{ef})		Minimal section (mm)		Characteristic load capacity R_{κ} (KN)							
			Solid wood C24 ($\rho_k = 350 \text{ kg/m}^3$)				Glued-laminated timber GL24h $(\rho_k = 385 \text{ kg/m}^3)$				
Screws	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 120	80 x 120	18.36	13.38	13.38	15.23	19.61	13.94	13.94	16.27
ø 5 x 80	74	90 x 150	80 x 150	24.38			20.00	26.04			20.00
ø 5 x 100	94	110 x 180	80 x 180	30.24			20.00	32.29			20.00





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