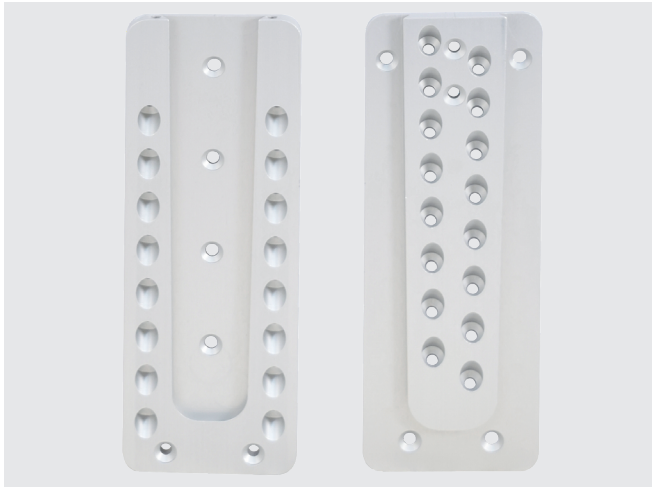


HVP 88322 with uplift protection



Application

Concealed beam connector for wood-wood connections.

Product Specifications

Dimensions w x h x d	80 x 220 x 12
Number of screws	44
Screw size	ø 5 x 60 – 100
Minimum timber section with screw ø 5 x 60 (mm) header	70 x 240
Joist	100 x 240
Characteristic load capacity* ø 5 x 60	63.41
ø 5 x 100	104.42
Carton quantity	10
CE	*

* F_{2,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 88322.1000 according to ETA-15/0187. The connection to secondary beam with 22 SFS HT (Heco) screws with a diameter of 5.0 mm and a length of 60/80/100 mm. Connection to main beam with 22 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:

F_{1,Rk} = 22.85 / 30.34 / 37.63 kN – Force acting in direction of the secondary beam

F_{2,Rk} = 58.75 / 78.01 / 96.76 kN – Force acting in direction of insertion

F_{3,Rk} = 21.80 kN – Force acting against direction of insertion

F_{4,Rk} = 32.71 kN – Force acting perpendicular to direction of insertion

M_{tor,J,Rk} = 1061.64 kN – Rotation moment in the axis of the secondary beam

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

F_{1,Rk} = 24.66 / 32.74 / 40.61 kN – Force acting in direction of the secondary beam

F_{2,Rk} = 63.41 / 84.20 / 104.42 kN – Force acting in direction of insertion

F_{3,Rk} = 21.80 kN – Force acting against direction of insertion

F_{4,Rk} = 34.31 kN – Force acting perpendicular to direction of insertion

M_{tor,J,Rk} = 1113.46 kN – 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 (l_{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)	H	J	$F_{2,RK}$	$F_{3,RK}$	$F_{4,RK}$	$F_{1,RK}$	$F_{2,RK}$	$F_{3,RK}$	$F_{4,RK}$	$F_{1,RK}$
$\varnothing 5 \times 60$	54	70 x 240	100 x 240	58.75	21.80	32.71	22.85	62.75	21.80	34.08	24.40
$\varnothing 5 \times 80$	74	90 x 270	100 x 270	78.01			30.34	83.32			32.40
$\varnothing 5 \times 100$	94	110 x 300	100 x 300	96.76			37.63	103.34			40.19

(Erstellt)	(Datum)	(Werkstoff)	EN AW 6082	nach	(Maßstab)
Autret	24.03.2015	(Beschichtung)			
A	Länge Abhebe	01.10.14	Autret		
B	FREIGABE	24.03.2015	Autret		
Ind.	Änderung	Datum	Name		
(Benennung)	HVP			(Zeichnungsnummer / Artikel-Nr.)	88322.0000 Teil 1
					Blatt /

Pitzl Metallbau GmbH & Co. KG
 Siemensstraße 26
 D-84051 Altheim
 Tel.: +49 (0) 87 03 / 93 46-0
 Fax.: +49 (0) 87 03 / 93 46-55

(Erstellt)	(Datum)	(Werkstoff)	EN AW 6082	nach	(Maßstab)
Autret	19.03.2015	(Beschichtung)			
A	FREIGABE	19.03.2015	Autret		
Ind.	Änderung	Datum	Name		
(Benennung)	HVP			(Zeichnungsnummer / Artikel-Nr.)	88322.0000 Teil 2
					Blatt /

Pitzl Metallbau GmbH & Co. KG
 Siemensstraße 26
 D-84051 Altheim
 Tel.: +49 (0) 87 03 / 93 46-0
 Fax.: +49 (0) 87 03 / 93 46-55