



Connectors

88420.1000

Innovative wood connection systems for highest requirements.



PIST Metallbau GmbH & Co. KG
DIN EN 1090-2



ZiNiP
max protection



Connectors Heavy-duty HVP

HVP connector 88420.1000

The new disposed inclined drilled holes as well as the possibility of using different screws lengths guarantee the adaptability to the small timber cross-sections too.



Dimensions w x h x d (mm)	120 x 200 x 20
Number of screws	16
Screws size	Ø 8 x 100 - 200
Minimal timber section with screws Ø 8 x 160 (mm) Header	160 x 220
Joist	140 x 220
Characteristic load capacity* Ø 8 x 160	50,29
Ø 8 x 200	62,21
Packing unit	4
CE	*

* F_{2,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. Heavy-duty HVP connectors are automatically delivered with uplift protection (2 screws Ø 6 x 20 mm and flat steel for uplift protection included).



Pitzl Metallbau GmbH & Co.KG
Siemensstraße 26
D - 84051 Altheim

Phone: +49 8703 9346-0
Fax: +49 8703 9346-55
E-mail: info@pitzl-connectors.com

Product information and
terms and conditions at
www.pitzl-connectors.com

Connectors Heavy-duty HVP

HVP connector 88420.1000

Technical drawing of the HVP connector 88420.1000. The drawing includes a top view, a side view, and a detail view of the end connection. Dimensions are provided in millimeters. The top view shows a rectangular plate with a central slot, a width of 200 mm, and a height of 69 mm. The side view shows a length of 125 mm and a thickness of 5 mm. The detail view shows a cross-section of the end connection with a diameter of 110 mm and a height of 11 mm.

(Erstellt) Autret	(Datum) 30.09.2014	(Werkstoff) EN AW 6082	nach	(Maßstab)
Abhebesicherung	30.09.14	(Beschichtung)		
Ind.	Änderung	Datum	Name	
(Benennung) HVP-Schwerlast		(Zeichnungsnummer / Artikel-Nr.) 88420.0000 Teil 1		Blatt /

Pitzl®
Metallbau
 Holzverbindungen
 Pfostenträger

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



Pitzl Metallbau GmbH & Co.KG
 Siemensstraße 26
 D - 84051 Altheim

Phone: +49 8703 9346-0
 Fax: +49 8703 9346-55
 E-mail: info@pitzl-connectors.com

Product information and
 terms and conditions at
www.pitzl-connectors.com

Connectors Heavy-duty HVP

HVP connector 88420.1000

Technical drawing of the HVP connector 88420.1000. The drawing includes a top view, a side view, and a detail view of the joint. Dimensions are provided in millimeters. The top view shows a rectangular plate with a total width of 200 mm and a height of 120 mm. The side view shows a thickness of 15 mm and a 45-degree chamfer. The detail view shows a cross-section of the joint with a diameter of 17 mm and a height of 11 mm.

(Erstellt) Autret	(Datum) 10.06.2014	(Werkstoff) EN AW 6082	nach	(Maßstab)	
		(Beschichtung)			
		 Pitzl [®] Metallbau Holzverbindungen Pfostenträger	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		
Ind.	Änderung		Datum	Name	
(Benennung)			HVP-Schwerlast		
			(Zeichnungsnummer / Artikel-Nr.)		Blatt
		88420.0000 Teil 2		/	



Pitzl Metallbau GmbH & Co.KG
Siemensstraße 26
D - 84051 Altheim

Phone: +49 8703 9346-0
Fax: +49 8703 9346-55
E-mail: info@pitzl-connectors.com

Product information and
terms and conditions at
www.pitzl-connectors.com

Connectors Heavy-duty HVP

HVP connector 88420.1000

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	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$	$F_{1,Rk}$
$\emptyset 8 \times 160$	150	160 x 220	140 x 220	46,60	25,82	25,82	40,00	50,29	27,08	27,08	40,00
$\emptyset 8 \times 180$	170	180 x 250	140 x 250	52,15			40,00	56,28			40,00
$\emptyset 8 \times 200$	190	200 x 280	140 x 280	57,64			40,00	62,21			40,00

Further static values can be found in our design manual at www.pitzl-connectors.com/en/downloads

Accessories

Item no.	Description
99211.0812	Countersunk screw 8 x 120 mm
99211.0818	Countersunk screw 8 x 180 mm
99211.0820	Countersunk screw 8 x 200 mm
58400.0000	Milling and assembly template for connectors 88420 - 88560
58396.0000	Collet holder
58396.0012	Collet $\emptyset 12 \text{ mm}$
50934.2000	Grooving cutter $\emptyset 20 \text{ mm}$



Pitzl Metallbau GmbH & Co.KG
Siemensstraße 26
D - 84051 Altheim

Phone: +49 8703 9346-0
Fax: +49 8703 9346-55
E-mail: info@pitzl-connectors.com

Product information and terms and conditions at www.pitzl-connectors.com