

Connectors

88111.0000

Innovative wood connection systems for highest requirements.



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



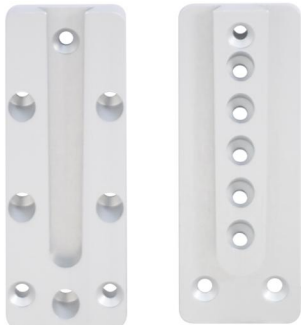
ZiNiP
max protection



Connectors HVP

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Optimal distances to the edges and variable screws length ensure accuracy of fit for each timber section.



Dimensions w x h x d (mm)	40 x 110 x 12
Number of screws	16
Screws size	Ø 4,5 x 50 - 80
Minimal timber section with screws Ø 4,5 x 50 (mm) Header	60 x 120
Joist	50** x 120
Characteristic load capacity* Ø 4.5 x 50	12,21
Ø 4,5 x 80	19,10
Packing unit	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 ** Valid for part 2 (with the tongue) fixed at the end grain, otherwise 60 mm.

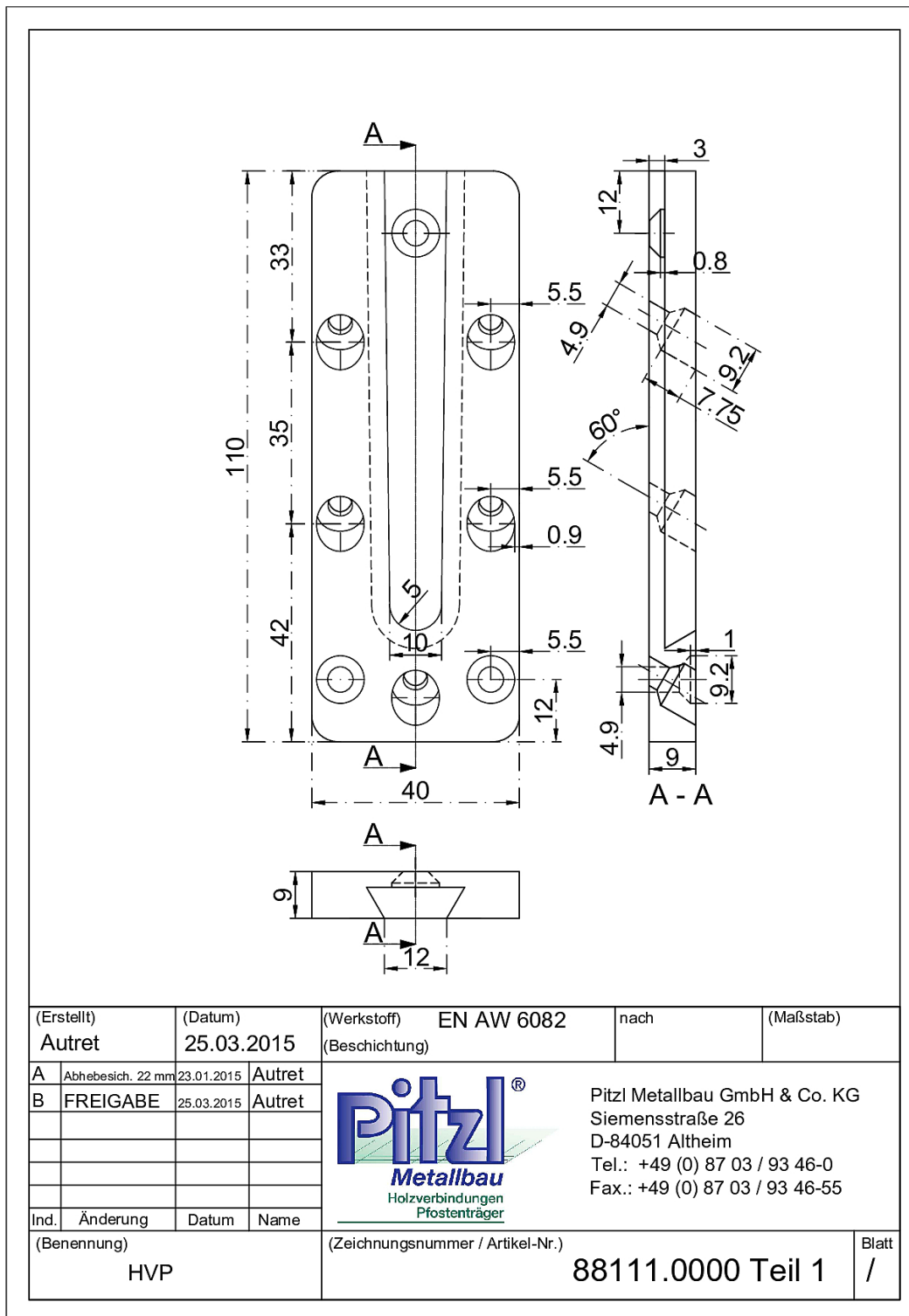


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Product information and
terms and conditions at
www.pitzl-connectors.com

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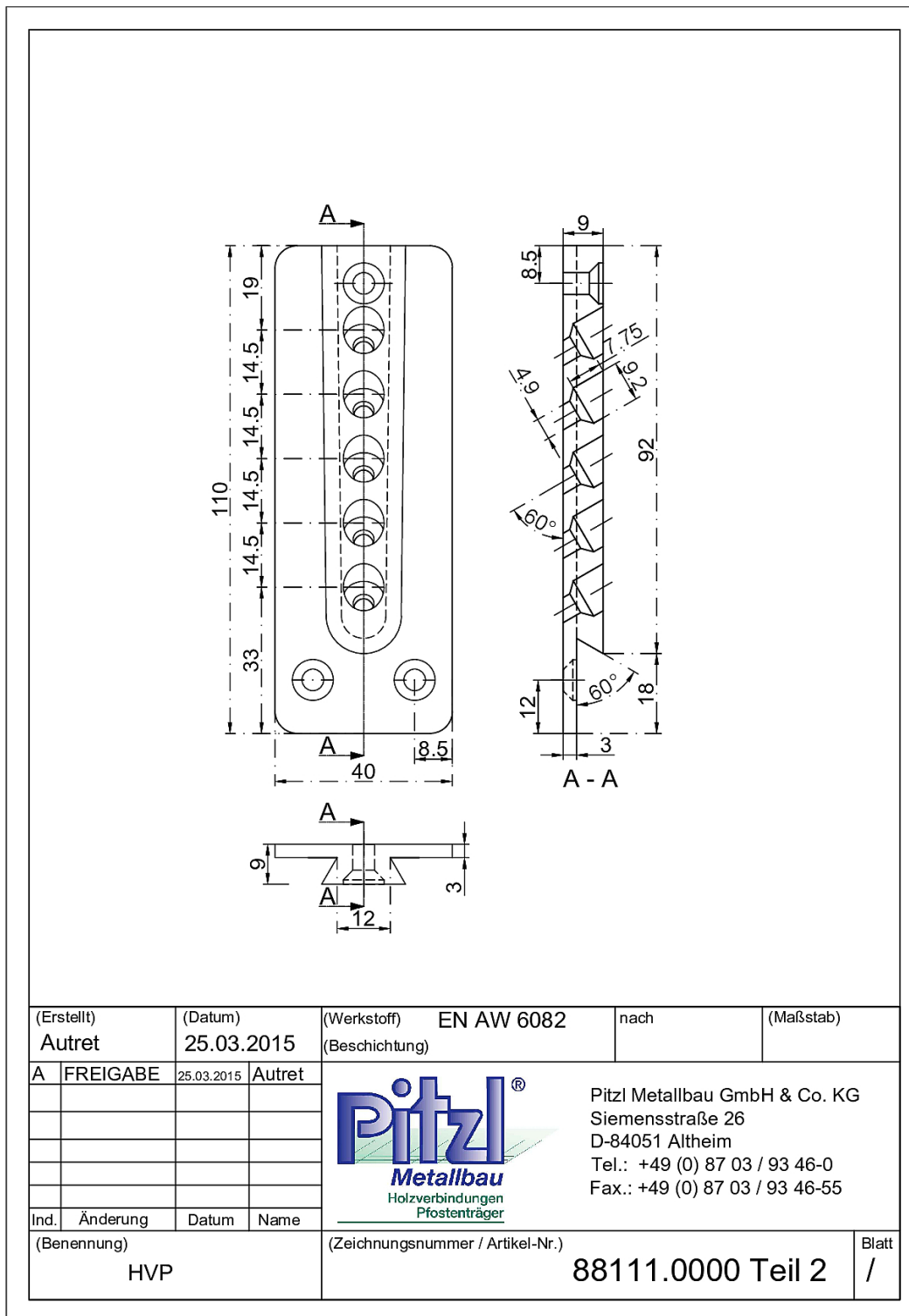


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Static values

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	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$	$F_{1,Rk}$	$F_{2,Rk}$	$F_{3,Rk}$	$F_{4,Rk}$	$F_{1,Rk}$
$\emptyset 4,5 \times 50$	44	60 x 120	60 x 120	11,31	0,00	10,01	9,20	12,08	0,00	10,43	9,82
$\emptyset 4,5 \times 60$	54	70 x 130	60 x 130	13,33			10,84	14,23			11,58
$\emptyset 4,5 \times 80$	74	90 x 150	60 x 150	17,70			14,39	18,90			15,37

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

Accessories

Item no.	Description
99211.4550	Countersunk screw 4,5 x 50 mm
99211.4560	Countersunk screw 4,5 x 60 mm
99211.4580	Countersunk screw 4,5 x 80 mm
99111.4550	Countersunk screw V2A 4,5 x 50 mm
99111.4560	Countersunk screw V2A 4,5 x 60 mm
58000.0000	Milling and assembly template for connectors 88004 - 88322
58399.0000	Milling unit composed of Milling bit, milling template and hand overhead router
58396.0000	Collet holder
58396.0008	Collet $\emptyset 8 \text{ mm}$
50934.1000	Grooving cutter $\emptyset 10 \text{ mm}$



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