Innovation and proximity to our customers are particularly important to us. We are always interested in implementing our consumer's wishes and finding optimal solutions for their individual requirements.

Wood is one of the oldest building materials and is still highly topical, modern and versatile. More than any other natural material wood stands for comfort, is ecological and ensures a healthy way of living.

Our products are focused on timber construction. Environmental and climate protection are very important to us, therefore, we contribute our part to sustainability and ecology by creating worldwide projects.

Thomas Pitzl
CEO

ETA-10/0413 ETA-15/0187 ETA-21/0750 Pitzl Metallbau GmbH & Co. KG DIN EN 1090-2

Welcome to the world of Pitzl

As one of the leading suppliers of timber connecting systems, Pitzl can look back on decades worth of experience.

Starting like many companies in a garage, the first post bases and balcony posts were manufactured by the present-day senior boss.

The credo at Pitzl is „For each use, a suitable concept". In addition to our extensive range of stock articles, we will also be glad to produce custom-made items to suit your individual requirements.

Pitzl products undergo a genuine testing marathon in order to meet the strict requirements. In cooperation with universities our products run trough extensive tests.

As one of only a few manufacturers, Pitzl offers you its post bases, connectors and balcony posts with a comprehensive ETA and in conjunction with that the legally binding CE mark.

The well-known phrase „Made in Germany" stands for highest quality guidelines. This way we maximize product safety for processors and minimize the risks for tradesmen.

Up to the requirements

Pitzl stands for flexibility. Apart from it's extensive range of post bases, etc., Pitzl has the agility to manufacture custom-made products according to our customer's specifications.

Individual custom-made products are still being offered today, just as they were 30 years ago. We ensure that every processor receives a proposed solution for every effective timber connection, even in the most challenging case of requirements. Innovation, research and development also remain important factors at Pitzl.

Being in constant contact with our customers and with scientific institutes within the timber construction industry guarantees that solution-oriented new developments can still be expected from Pitzl in the future.

A secure feeling

To ensure your safety we subject all our products to numerous tests.

Our products are then provided with an approval.

Certified safety

Nothing is left to chance at Pitzl when it comes to quality and safety.

That is proven by the fact that in the complete product range for structural applications, virtually all eventualities and challenges are covered by comprehensive European Technical Approvals.

This was preceded by intensive development and testing, which Pitzl carried out together with renowned accredite institutes in Germany and Austria.

CE certified products

With the CE mark on its products, the manufacturer declares that all legal requirements for these products are fulfilled. The aim of the CE marking is to document compliance with the basic safety requirements of the applicable EU regulations.

European Technical Assessment

The ETA is a product performance certificate that leads to the CE marking. An ETA can be applied for any construction product that is not or not completely covered by a harmonised standard. In order to guarantee our customers the highest safety standard, we have equipped almost all statically used products with such a standard.

Manufacturing according to DIN 1090

Metal construction companies must comply with technical standards valid throughout Europe for welding work in the building inspectorate sector. Contracts for metal construction work may only be awarded to specialist companies that meet the requirements of DIN EN 1090 and are tested and certified by a recognized body.

For your safety

To this day, Pitzl has a clear, unique selling point and offers users - planners, structural engineers and contractors - maximum security and comprehensive support.

This applies not only to the new generation of HVP connectors, but also to the entire range of post supports, balcony and fence posts and accessories.

Assured from A to Z - Pitzl has considered all points in detail in the current ETA extension of the HVP connectors: from C like Concrete connection, D like Distances to the edges, F like Fire protection, L like Lift-off protection, M like Moment transmission, P like Perpendicular load to S like optimized Screws lengths.

Our Product line

Page

For each application a suitable concept.

Following this credo, Pitzl has been developing innovative ideas for timber construction for over 30 years. Always with the end customer in mind.

Still haven't found the right product? Custom-made products are available and ensure that every fabricator receives a solution for every effective wood joint, even for demanding requirements. For questions and technical support, please contact our support team at

support@pitzl-connectors.com

Post bases

ETA-10/0413 ETA-15/0187 ETA-21/0750

Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP® max protection

HVP heavy duty

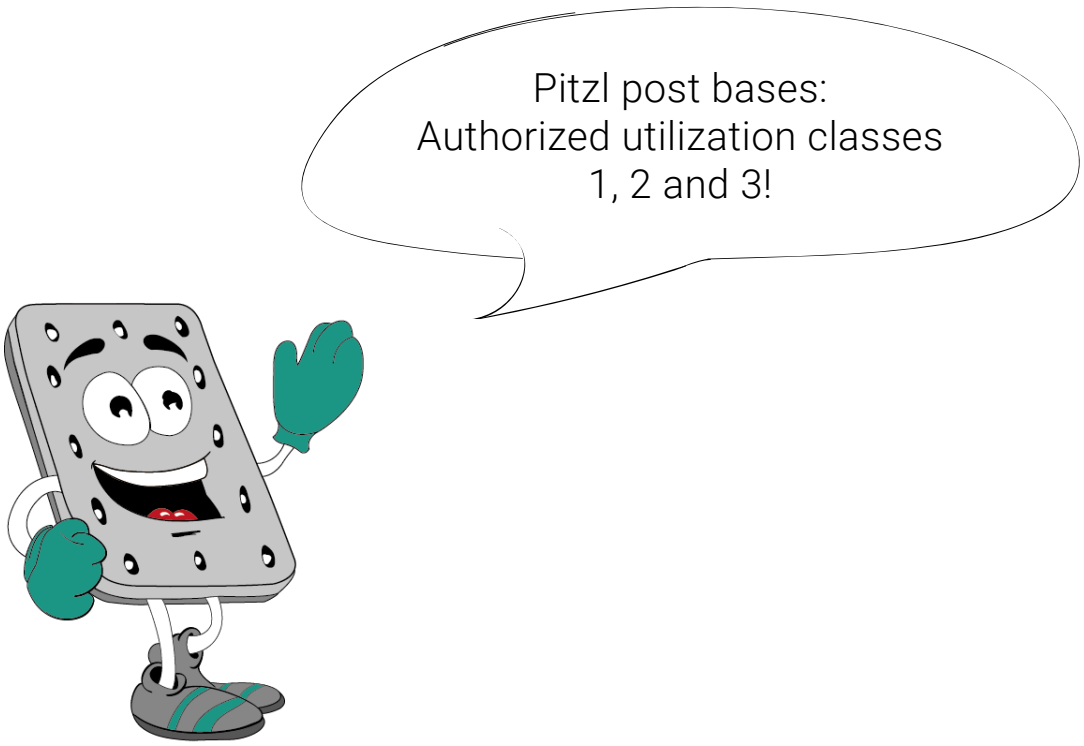
Content

General Information

- The carrier plate is centered at the front with 4 pcs. VG screws Ø 10 mm. The length of the screws must be selected depending on the load requirement, but at least 120 mm.
- The constructive wood protection can be improved by countersinking the carrier plate or attaching a drip nose.
- The anchoring of the base plate is carried out either with anchor bolts or concrete screws. For installations in service class 3, these are to be used in stainless steel.
- The installation height is always specified from the lower edge of the base plate to the upper edge of the support plate.
- Wet concrete and silicones containing vinegar can react extremely aggressively to any type of zinc coating. For gluing or grouting work, it is recommended to apply additional corrosion protection to the affected area of the post base. We recommend our PIKO spray (on page 103).
- Please note: When installing one of our Pitzl base plates, it must lie flat and level.

Calculation notes

- Reduction of steel failure in compression with γ_{M1}
  Reduction of steel failure in tension with γ_{M0}



Individual order numbers

With our new order number system specifically designed for our customers, we offer a unique service.
Define your needs and create your desired post base.

After the choice of the lower and upper plates, the height as well as the version can be freely chosen.
If you do not find the suitable one, you can then customize our post base.

The following description explains the Pitzl order numbers system.
If you have questions do not hesitate to contact us.

Post bases System 10931/10930 and right/left threaded

Basic article — **10930.1000**

Lower plate

- **0** = 100 x 100 mm
- **1** = 160 x 100 mm
- **2** = 220 x 100 mm*
- **3** = Setting in concrete 250
- **4** = Setting in concrete 330
- **5** = Setting in concrete 500
- **6** = Corner form version
- **7** = 110 x 110 mm
- **8** = 140 x 140 mm
- **9** = For screw-in foundations

Height

M20	M24	M30	lower thread height
0	-	-	55
-	0	0	65
-	1	1	90
-	2	2	150
-	3	3	180
-	4	4	250
-	6	-	35

Upper plate

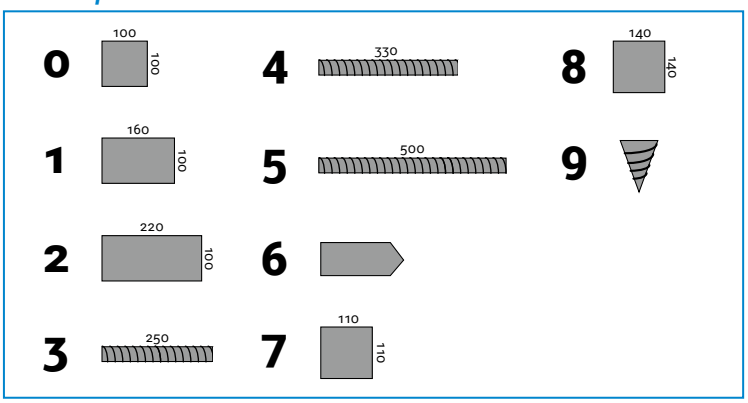
- **8** = 80 x 80 mm / Ø 80 mm
- **0** = 100 x 100 mm / Ø 100 mm
- **3** = 130 x 100 mm with lateral flaps

Version

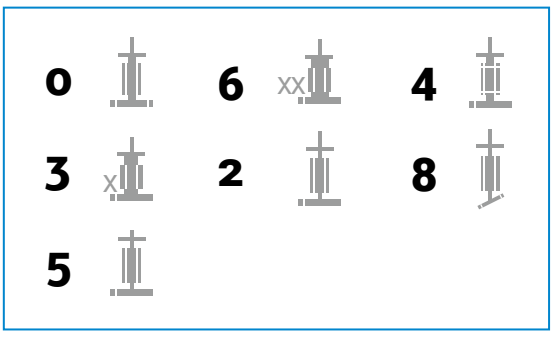
- **0** = Standard
- **3** = M30 with panel thickness 10 mm
- **6** = M30 with panel thickness mm
- **2** = Version M20
- **4** = Carport-post bases
- **8** = Inclinable
- **5** = short tube

** available with short delivery time*

Lower plate



Version



→ Example:

Post base — **10931.1082**

Lower plate	Height	Upper plate	Version
1 = 160 x 100 mm	**0** = Standard	**8** = 80 x 80 mm / Ø 80 mm	**2** = Version M20

Post bases with threaded rods

Basic article

M20 = 11009 **M30** = 11016
M24 = 11013 **Inclinable** = 12013

11009.1282

Lower plate	Height	Upper plate	Lift-off protection
0 = 100 x 100 mm	**1** = 150 mm	**0** = 100 x 100 x 6 mm	**0** = without Lift-off protection
1 = 160 x 100 mm	**2** = 250 mm	**8** = 80 x 80 x 5 mm	**1** = with welded nut
2 = 220 x 100 mm*	**3** = 330 mm		**2** = with safety latch
3 = Set in concrete	**5** = 500 mm		
6 = Corner form version			

** available with short delivery time*

Lift-off protection

0 — **1**  **2** 

→ Example:

Post base 11009.0180

Lower plate	Height	Upper plate	Lift-off protection
0 = 100 x 100 mm	**1** = 150 mm	**8** = 80 x 80 x 5 mm	**0** = without Lift-off protection

PTP easy Post bases, Plug-in system Z

Turn – Click, the new innovative post base system

With few handlings, without time-consuming and inconvenient screwing the new plug-in system allows an efficient solution of assembly. Maximal load capacities in compression, traction and horizontal stresses are guaranteed through the optimal material thickness of the post base. A height adjustment is possible even when mounted and under heavy load.

Art.-Nr.: 10529.1690

Dimensions:

Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)
Ø 96 x 8	160 x 100 x 8	4	4

Lower thread (M24)	Adjustment range (mm)	max. characteristic load capacity (kN)* compression / tension		CE
		Wood	Steel	
55	99 - 119	152,0 / 50,0	104,0* / 36,9*	*

Art.-Nr.: 10529.1090

Dimensions:

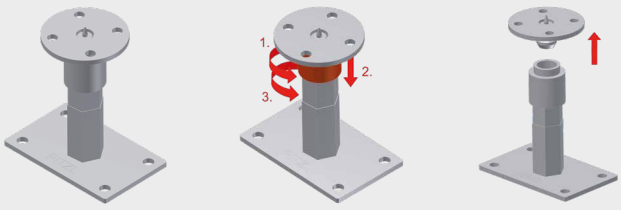
Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)
Ø 96 x 8	160 x 100 x 8	4	4

Lower thread (M24)	Adjustment range (mm)	max. characteristic load capacity (kN)* compression / tension		CE
		Wood	Steel	
90	141 - 201	152,0 / 50,0	96,5* / 36,9*	*

Assembly instructions

The pre-assembly of the post base is already performed in the workshop and provides for a quick and comfortable work on the building site. The innovative Pitzl plug-in system can be smoothly and fastly locked and unlocked. The top panel can be separated from the rest of the post base in a few simple steps.

1. Turn the fastening anticlockwise as far as it goes.
2. Press the fastening downwards.
3. Push the fastening further counterclockwise.



Our plug-in system Z is also available as a heavy duty version.
Please find more information on page 44.

Art.-Nr.: 10529.1990

Dimensions:

Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)	
Ø 96 x 8	160 x 100 x 8	4	4	
Lower thread (M24)	**Adjustment range (mm)**	**max. characteristic load capacity (kN)* compression / tension**		**CE**
		Wood	Steel	
150	203 - 318	152,0 / 50,0	74,0* / 36,9*	*

Art.-Nr.: 10529.1490

Dimensions:

Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)	
Ø 96 x 8	160 x 100 x 8	4	4	
Lower thread (M24)	**Adjustment range (mm)**	**max. characteristic load capacity (kN)* compression / tension**		**CE**
		Wood	Steel	
250	303 - 418	152,0 / 50,0	74,0* / 36,9*	*

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

Art.-Nr.: 10529.8090

Dimensions:

Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)
Ø 96 x 8	140 x 140 x 8	4	4

Lower thread (M24)	Adjustment range (mm)	max. characteristic load capacity (kN)* compression / tension		CE
		Wood	Steel	
90	141 - 201	152,0 / 50,0	96,5* / 21,5*	*

Art.-Nr.: 10529.8990

Dimensions:

Upper plate (mm)	Lower plate (mm)	Bottom boreholes (Ø 13mm)	Upper boreholes (Ø 10,5mm)
Ø 96 x 8	140 x 140 x 8	4	4

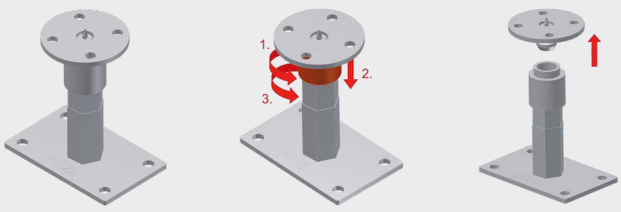
Lower thread (M24)	Adjustment range (mm)	max. characteristic load capacity (kN)* compression / tension		CE
		Wood	Steel	
150	203 - 318	152,0 / 50,0	74,0* / 21,5*	*

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions

The pre-assembly of the post base is already performed in the workshop and provides for a quick and comfortable work on the building site. The innovative Pitzl plug-in system can be smoothly and fastly locked and unlocked. The top panel can be separated from the rest of the post base in a few simple steps.

1. Turn the fastening anticlockwise as far as it goes.
2. Press the fastening downwards.
3. Push the fastening further counterclockwise.



Our plug-in system Z is also available as a heavy duty version.
Please find more information on page 44.

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases System 10931

The leading post base series for joinery stations and carpenters. A versatile post base system accepting compressive, tensile and transverse forces. Height-adjustable even when installed and under heavy load.

Art.-Nr.: 10931.1600

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	35

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	130	110 - 200	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	100,0* / 13,2*	10834.2000 10834.1060	Short version

Art.-Nr.: 10931.1005

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	70	170 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	92,0* / 13,2*	10834.3001	short pipe thread

Assembly instructions

For post bases with a M 44 tube thread, drill a 130 mm hole in the cross-grained wood using the Ø 42.5 mm drill - item no. 50938.0000 (joinery machine: Ø 43.5 mm). The tube thread can be screwed into the cross-grained wood manually or with an impact wrench and fastened with 4 fully-threaded plate screws, Ø 10 x 120 mm.
No additional assembly tools required!

Alternatively: With a drill of Ø 44 mm the threaded tube can be plugged in. The upper threaded rod (M24 x 150 mm right) is screwed in through the upper plate and secured with a nut. This enables rough adjustment of 50 mm and fine adjustment of up to 65 mm following assembly via the right/left socket (complete continuous adjustability of 115 mm).

Art.-Nr.: 10931.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	130	170 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	92,0* / 13,2*	10834.3001	-

Art.-Nr.: 10931.1100

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	130	195 - 310	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	88,6* / 13,2*	10834.3001 10834.1012	-

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50938.0000	Twist drill for post bases Ø 42,5 mm	199
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases System 10931

Art.-Nr.: 10931.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	130	255 - 370	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	79,8* / 13,2*	10834.3020	-

Art.-Nr.: 10931.1300

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube M 44 mm	Adjustment range (mm)	CE
4	4	130	305 - 420	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	75,2* / 13,2*	10834.3030	-

Assembly instructions

For post bases with a M 44 tube thread, drill a 130 mm hole in the cross-grained wood using the Ø 42.5 mm drill - item no. 50938.0000 (joinery machine: Ø 43.5 mm). The tube thread can be screwed into the cross-grained wood manually or with an impact wrench and fastened with 4 fully-threaded plate screws, Ø 10 x 120 mm.
No additional assembly tools required!

Alternatively: With a drill of Ø 44 mm the threaded tube can be plugged in. The upper threaded rod (M24 x 150 mm right) is screwed in through the upper plate and secured with a nut. This enables rough adjustment of 50 mm and fine adjustment of up to 65 mm following assembly via the right/left socket (complete continuous adjustability of 115 mm).

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50938.0000	Twist drill for post bases Ø 42,5 mm	199
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases System 10930

To simplify assembly even further, we have developed the 10930 item range. The upper parts have a tube diameter of 42.4 mm. They are simply inserted into the wood post and fastened with 4 fully-threaded Ø 10 x 120 mm wood screws. This saves you valuable assembly time while providing the typical values regarding compressive, tensile and transverse forces, and you can still continue to use our wood twist drill bit or your joinery machine to make the required borehole in the support. The upper part makes for an exceptionally wide adjustment range in the post bases of the 10930 / 10931 series. Of course, the upper part can also be used as a post-purlin connection. A versatile and combinable support foot, which remains height-adjustable even when mounted and under heavy load.

Art.-Nr.: 10930.1600

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	35

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	110 - 200	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	99,9* / 13,2*	10834.2000 10834.1060	short Version

Art.-Nr.: 10930.1082

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M20)	Lower thread (M20)
Ø 80 x 6	160 x 100 x 6	150	55

Upper boreholes (Ø 7 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	150 - 250	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
75,0 / 50,0	78,0* / 13,2*	10832.0000 10832.0010	-

Assembly instructions

For post bases with Ø 42.4 mm tube, drill a 130 mm hole in the cross-grained wood using the Ø 42.5 mm drill item no. 50938.0000 or a joinery machine.
The tube is manually inserted into the cross-grained wood and fastened with 4 fully threaded plate screws, Ø 10 x 120 mm. No additional assembly tools required!

The upper threaded rod (M24 x 150 mm right) is screwed in through the upper plate and secured with a nut. This enables rough adjustment of 50 mm and fine adjustment of up to 65 mm following assembly via the right/left socket (complete continuous adjustability of 115 mm).

Art.-Nr.: 10930.1005

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	70	170 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	92,0* / 13,2*	10834.3001	short tube

Art.-Nr.: 10930.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	170 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	92,0* / 13,2*	10834.3001	-

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50938.0000	Twist drill for post bases Ø 42,5 mm	199
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases System 10930

Art.-Nr.: 10930.1100

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	195 - 310	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	88,6* / 13,2*	10834.3001 10834.1012	-

Art.-Nr.: 10930.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	255 - 370	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	79,8* / 13,2*	10834.3020	-

Assembly instructions

For post bases with Ø 42.4 mm tube, drill a 130 mm hole in the cross-grained wood using the Ø 42.5 mm drill item no. 50938.0000 or a joinery machine.
The tube is manually inserted into the cross-grained wood and fastened with 4 fully threaded plate screws, Ø 10 x 120 mm. No additional assembly tools required!

The upper threaded rod (M24 x 150 mm right) is screwed in through the upper plate and secured with a nut. This enables rough adjustment of 50 mm and fine adjustment of up to 65 mm following assembly via the right/left socket (complete continuous adjustability of 115 mm).

Art.-Nr.: 10930.1300

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	150	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Mandrel tube Ø 42,4 mm	Adjustment range (mm)	CE
4	4	130	305 - 420	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	75,2* / 13,2*	10834.3030	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50938.0000	Twist drill for post bases Ø 42,5 mm	199
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases right / left threaded

Version with upper quadratic plate M20

A system for all applications!
Threads of M20 to M24 and the most varied plate sizes with 6 to 15 mm material thickness - we have the perfect solution for any application (you will find M30 threads and 10 to 15 mm material thickness on page 44). Lift-off and lateral impacts can be counteracted with a straight screw connection into the cross-grained wood using fully-threaded 10 x 120 mm wood screws (with European Technical Approval) or a strut or lateral latches. Of course, post bases of the right/left-threaded system are still height-adjustable when mounted and under heavy load.

Art.-Nr.: 10980.0080

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M20)	Lower thread (M20)
80 x 80 x 5	100 x 100 x 6	55	55

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	121 - 181	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
98,0 / 50,0	80,0* / 7,4*	10832.0000	-

Art.-Nr.: 10900.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M20)	Lower thread (M20)
100 x 100 x 6	100 x 100 x 6	55	55

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	122 - 182	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	79,0* / 7,4*	10832.0000	-

Also available

Other dimensions or sizes can be customized with our new item number system.
You can find examples on page 12 of the catalogue.

Art.-Nr.: 10920.1600

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	35	35

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	82 - 92	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	96,2* / 7,4*	10834.1060	Short version

Art.-Nr.: 10920.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	142 - 207	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	96,2* / 7,4*	10834.2000	-

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases right / left threaded

Art.-Nr.: 10920.1100

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	167 - 232	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	92,9* / 7,4*	10834.2010	-

Art.-Nr.: 10920.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	227 - 292	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	84,5* / 7,4*	10834.1012	-

Also available

Other dimensions or sizes can be customized with our new item number system.
You can find examples on page 12 of the catalogue.

Art.-Nr.: 10920.1300

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	277 - 342	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	80,0* / 7,4*	10834.2035	-

Art.-Nr.: 10920.1400

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	327 - 392	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
135,0 / 50,0	69,0* / 7,4*	10834.2040	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases right / left threaded
Version with centring tip

Art.-Nr.: 10920.1090

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	65	65

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	142 - 207	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	96,5* / 20,76*	10834.2000	-

Art.-Nr.: 10920.1190

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	65	90

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	167 - 232	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	87,9* / 20,76*	10834.2010	-

Art.-Nr.: 10920.1290

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	65	150

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	227 - 292	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	80,8* / 20,76*	10834.1012	-

Art.-Nr.: 10920.1390

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	65	200

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	277 - 342	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	70,0* / 20,76*	10834.2035	-

Art.-Nr.: 10920.1490

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	65	250

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	327 - 392	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	60,8* / 20,76*	10834.2040	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

PTP easy Post bases right / left threaded
Version with thread mandrel

Art.-Nr.: 10901.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M20)	Lower thread (M20)
Ø 100 x 6	100 x 100 x 6	55	55

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	122 - 182	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
105,0 / 50,0	79,0* / 7,4*	10832.0000	-

For lateral fixation, the mandrel M20 x 90 mm is inserted into the timber column.

Art.-Nr.: 10921.1600

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	35	35

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	82 - 92	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	104,0* / 7,4*	10834.1060	short version

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	142 - 207	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	69,2* / 7,4*	10834.2000	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1100

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	167 - 232	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	92,9* / 7,4*	10834.2010	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	227 - 292	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	84,5* / 7,4*	10834.1012	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

PTP easy Post bases right / left threaded
Version mit Threaddorn

Art.-Nr.: 10921.1300

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	277 - 342	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	80,0* / 7,4*	10834.2035	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1400

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	160 x 100 x 6	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	327 - 392	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	69,0* / 7,4*	10834.2040	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

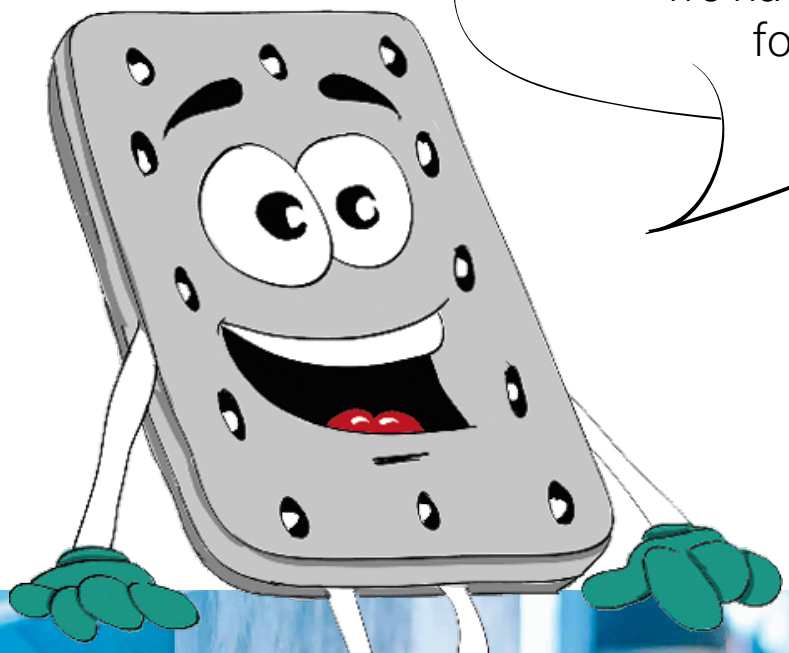
Also available

Other dimensions or sizes can be customised with our new item number system.
You find examples on page 12 of the catalogue.

You find the corresponding assembly tools for example twist drill, shell-type milling cutter, etc. in our new tool chapter.

PTP easy Post bases Right / left threaded

PTP easy Post bases right / left threaded
Information



Art.-Nr.: 10922.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 6	160 x 100 x 6	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	142 - 207	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
177,0 / 50,0	114,0* / -	10834.2000	-

Art.-Nr.: 10923.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 5	160 x 100 x 6	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
2	4	141 - 206	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	laterally adjustable (mm)
Wood	Steel		
106,0 / 28,0	96,2* / -	10834.2000	100 - 160

Individual adaptation to the timber column is possible with lateral latches that can be hooked in.

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions 10922.1000

The precisely fitting slot can be made with a standard slotting device.

Any required lift values are taken over by rod dowels (fitting bolts). These are to be processed according to the specifications of the respective producer.

Measurements

Strut 120 x 60 x 6 with two boreholes Ø 12,5 mm.
lateral latches 160 x 47 x 60 x 4 mm with two boreholes Ø 12,5 mm

PTP easy Post bases Stainless steel

Art.-Nr.: 10952.1000

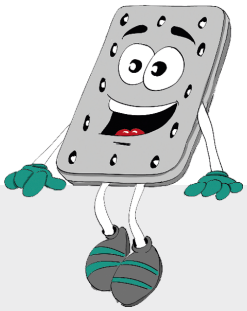
Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	160 x 100 x 8	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	146 - 211	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
90,0 / 50,0	83,8* / 11,8*	-	-

For lateral fixation, the mandrel M24 x 110 mm is inserted into the timber column.



Assembly instructions

When fixing the stainless steel post base, the connection to the wood must be made using stainless steel screws with a full plate head thread.

The connection to the foundation must be separately verified according to ETA 10/0413 and should also be carried out with concrete screws or anchor bolts made of stainless steel.

Art.-Nr.: 10951.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
100 x 100 x 8	160 x 100 x 8	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	146 - 211	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
170,0 / 50,0	94,2* / 11,8*	-	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases Stainless steel

Art.-Nr.: 10953.1100

Dimensions:

Upper plate (mm)		Lower plate (mm)
100 x 100 x 6		160 x 100 x 6
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*
max. characteristic load capacity (kN)* compression / tension		**Lower thread M 24**
Wood / 135,0 / -	**Steel** / 80,8* / -	150

Assembly instructions

When fixing the stainless steel post base, the connection to the wood must be made using stainless steel screws with a full plate head thread.

The connection to the foundation must be separately verified according to ETA 10/0413 and should also be carried out with concrete screws or anchor bolts made of stainless steel.

Art.-Nr.: 10953.1200

Dimensions:

Upper plate (mm)		Lower plate (mm)
100 x 100 x 6		160 x 100 x 6
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*
max. characteristic load capacity (kN)* compression / tension		**Lower thread M 24**
Wood	**Steel**	250
135,0 / -	80,8* / -	

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases inclinable

PTP easy Post bases, Plug-in system Z

Art.-Nr.: 10529.7098

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 8	110 x 110 x 6	-	90

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	175 - 235	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Version
Wood	Steel		
- / 50,0	41,3** / 25,6**	-	Centering tip

PTP easy Post bases System 10930/10931

Art.-Nr.: 10930.7008

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 8	110 x 110 x 6	150	65

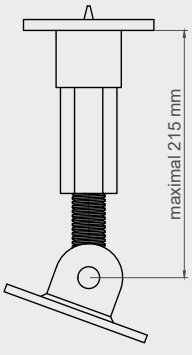
Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	204 - 319	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel		
- / 50,0	41,3** / 25,6**	-	130

Assembly instructions

The system developed by Pitzl enables the approved installation of vertical supports even on sloping foundations.

Observe the maximum installation height of 215 mm, from the joint to the lower edge of the upper part. Further technical details can be found in our statics handbook.



Art.-Nr.: 10920.7098

PPost bases Right / left threaded

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	110 x 110 x 6	65	65

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 10,5 mm)	Adjustment range (mm)	CE
4	4	178 - 243	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Version
Wood	Steel		
- / 50,0	41,3** / 25,6**	-	Centering tip

Art.-Nr.: 10921.7008

Post bases Right / left threaded

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	110 x 110 x 6	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	178 - 243	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Version
Wood	Steel		
- / 50,0	41,3** / 25,6**	-	Mandrel M 24 x 110 mm

Art.-Nr.: 12013.7301

PTP easy Post bases Threaded rods

Dimensions:

Upper plate (mm)	Lower plate (mm)	Thread (M24)
100 x 100 x 6	110 x 110 x 6	330

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Version
Wood	Steel		
- / 50,0	41,3** / 25,6**	-	Nut welded

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413
** A partial safety factor for steel failure YM 1.0 is recommended

PTP plus Post bases Heavy-duty version

Plug-in system Z with centering tip

In order to fulfill the increasing load requirements for column feet in timber construction we have developed the PTP plus series. Vertical load bearing capacities of 515 KN, horizontal load bearing capacities of up to 18 KN or lift-off values of 72 KN guarantee the Pitzl post bases an absolute unique selling point.

A solution for every requirement - that is our credo, even in the heavy duty sector.

Art.-Nr.: 10529.1093

Dimensions:

Upper plate (mm)	Lower plate (mm)	Adjustment range (mm)
Ø 120 x 12	140 x 140 x 12	149 - 209
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*

max. characteristic load capacity (kN)* compression / tension		Lower thread M 30
Wood	Steel	90
226,0 / 50,0	186,0* / 97,73*	

Also available

Other dimensions or sizes can be customized with our new item number system. You can find examples on page 12 of the catalogue.

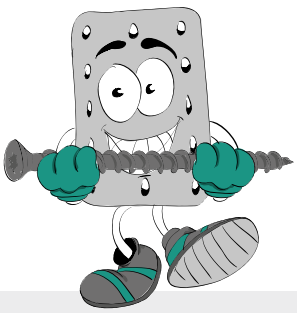
You find the corresponding assembly tools for example twist drill, shell-type milling cutter, etc. in our new tool chapter.

Art.-Nr.: 10529.1993

Dimensions:

Upper plate (mm)	Lower plate (mm)	Adjustment range (mm)
Ø 120 x 12	140 x 140 x 12	215 - 325
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*

max. characteristic load capacity (kN)* compression / tension		Lower Thread M 30
Wood	Steel	150
226,0 / 50,0	143,6* / 97,73*	



* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
Threaded rods

Art.-Nr.: 11016.1200

Dimensions:

Upper plate (mm)		Lower plate (mm)
100 x 100 x 10		160 x 100 x 10
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*
max. characteristic load capacity (kN)* compression / tension		**Lower thread M 30**
Wood	**Steel**	250
195,0 / 0,0	185,0* / 0,0	

Art.-Nr.: 11016.1300

Dimensions:

Upper plate (mm)		Lower plate (mm)
100 x 100 x 10		160 x 100 x 10
Upper boreholes (Ø 12 mm)	**Lower boreholes (Ø 13 mm)**	**CE**
4	4	*
max. characteristic load capacity (kN)* compression / tension		**Lower thread M 30**
Wood	**Steel**	330
195,0 / 0,0	155,3* / 0,0	

Also available

Other dimensions or sizes can be customized with our new item number system.
You can find examples on page 12 of the catalogue.

Art.-Nr.: 11016.1500

Dimensions:

Upper plate (mm)	Lower plate (mm)
100 x 100 x 10	160 x 100 x 10

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

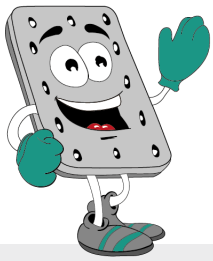
max. characteristic load capacity (kN)* compression / tension		Lower thread M 30
Wood	Steel	
195,0 / 0,0	141,5* / 0,0	500

lift-off values with locking latch:

Wood	Steel
30,0	9,4* mit γ_{M2}

lift-off values welded with nut:

Wood	Steel
30,0	20,6* mit γ_{M0}



* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
with quadratic upper plate

Art.-Nr.: 10920.1003

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 10	160 x 100 x 10	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	150 - 210	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
210,0 / 50,0	158,5* / 20,6*	10833.2000	-

Art.-Nr.: 10920.1103

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 10	160 x 100 x 10	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	175 - 235	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
210,0 / 50,0	154,6* / 20,6*	10833.3000	-

Art.-Nr.: 10920.1203

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 10	160 x 100 x 10	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	235 - 295	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
210,0 / 50,0	144,0* / 28,0*	10833.3000	-

Art.-Nr.: 10920.1303

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 10	160 x 100 x 10	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	285 - 345	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
210,0 / 50,0	144,8* / 20,6*	-	-

Art.-Nr.: 10920.1403

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 10	160 x 100 x 10	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	335 - 395	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
210,0 / 50,0	137,4* / 20,6*	-	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With centering tip

Art.-Nr.: 10920.1093

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	150 - 210	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	158,5* / 58,2*	10833.2000	-

Art.-Nr.: 10920.1193

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	175 - 235	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	152,8* / 58,2*	10833.3000	-

Art.-Nr.: 10920.1293

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	235 - 295	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	145,8* / 58,2*	10833.3000	-

Art.-Nr.: 10920.1393

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	285 - 345	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	137,8* / 58,2*	-	-

Art.-Nr.: 10920.1493

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	335 - 395	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	129,0* / 58,2*	-	-

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With threaded rod

Art.-Nr.: 10921.1003

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	150 - 210	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	158,5* / 20,6*	10833.2000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1103

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	175 - 235	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
143,0 / 50,0	154,6* / -	10833.3000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1203

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	235 - 295	*-

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
143,0 / 50,0	150,0* / -	10833.3000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1303

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	285 - 345	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
143,0 / 50,0	136,7* / 18,77*	-	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1403

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	335 - 395	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
143,0 / 50,0	137,4* / -	-	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With threaded rod

Art.-Nr.: 10921.1006

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 15	65	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	160 - 220	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
185,7 / 50,0	175,3* / -	10833.2000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1106

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 15	65	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	185 - 245	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
185,7 / 50,0	155,8* / -	10833.3000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1206

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 15	65	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	245 - 305	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
185,7 / 50,0	147,6* / -	10833.3000	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1306

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 15	65	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	295 - 355	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
185,7 / 50,0	145,3* / -	-	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

Art.-Nr.: 10921.1406

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 15	65	250

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	345 - 405	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
185,7 / 50,0	136,7* / -	-	-

For lateral fixation, the mandrel M30 x 110 mm is inserted into the timber column.

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With tube

Art.-Nr.: 10930.1003

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	195 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel	10833.3000	130
135,0 / 50,0	153,2* / 20,6*		

Also available

Other dimensions or sizes can be customized with our new item number system. You can find examples on page 12 of the catalogue.

You find the corresponding assembly tools for example twist drill, shell-type milling cutter, etc. in our new tool chapter.

Art.-Nr.: 10930.1006

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	205 - 300	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel	10833.3000	130
168,6 / 50,0	152,5* / -		

Art.-Nr.: 10930.1106

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	230 - 325	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel	10833.3000	130
168,6 / 50,0	150,6* / -		

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With tube

Art.-Nr.: 10930.1206

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	290 - 385	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel		
168,6 / 50,0	144,4* / -	-	130

Art.-Nr.: 10930.1306

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	340 - 435	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 42,4 mm
Wood	Steel		
168,6 / 50,0	140,5* / -	-	130

Also available

Other dimensions or sizes can be customized with our new item number system. You can find examples on page 12 of the catalogue.

You find the corresponding assembly tools for example twist drill, shell-type milling cutter, etc. in our new tool chapter.

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
With tube thread

Art.-Nr.: 10931.1003

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 10	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	195 - 285	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 44 mm
Wood	Steel		
133,0 / 50,0	153,2* / 20,6*	10833.3000	130

Art.-Nr.: 10931.1006

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	65

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	205 - 300	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 44 mm
Wood	Steel		
168,6 / 50,0	152,5* / -	10833.3000	130

Art.-Nr.: 10931.1106

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	230 - 325	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 44 mm
Wood	Steel		
168,6 / 50,0	150,6* / -	10833.3000	130

Art.-Nr.: 10931.1206

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	150

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	290 - 385	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 44 mm
Wood	Steel		
168,6 / 50,0	144,4* / -	-	130

Art.-Nr.: 10931.1306

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
100 x 100 x 15	160 x 100 x 15	150	200

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 15 mm)	Adjustment range (mm)	CE
4	4	340 - 435	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Mandrel tube Ø 44 mm
Wood	Steel		
168,6 / 50,0	140,5* / -	-	130

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
Rigid version hot-dip galvanized

The in-house manufacturing allows Pitzl to react quickly and flexibly to customers's requests. Due to snow quantities that disproportionally fell in large parts of Europe it was necessary to develop and manufacture a fitted post base quickly.

The most solid produced post base 11008.____ is available as of now rigid as well as adjustable. The optimally designed constructive form allows very high load capacities for compression up to 515 kN and also for horizontal load actions up to 18,2 kN. The tried and tested Pitzl screw connection concept or a strut with dowel boreholes guarantee a lift-off value up to 50 kN.

with thread mandrel M24 x 150 mm

Art.-Nr.: 11008.1160

Dimensions:

Upper plate (mm)	Lower plate (mm)
140 x 140 x 15	140 x 140 x 15

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 17 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Height (mm)	Tube Ø (mm)
Wood	Steel		
400,0 / 50,0	456,0* / 160,2*	160	82,5 x 5

with thread mandrel M24 x 150 mm

Art.-Nr.: 11008.1250

Dimensions:

Upper plate (mm)	Lower plate (mm)
140 x 140 x 15	140 x 140 x 15

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 17 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Height (mm)	Tube Ø (mm)
Wood	Steel		
381,5 / 50,0	279,3* / 160,2*	250	82,5 x 5

Art.-Nr.: 11008.2160

Dimensions:

Upper plate (mm)	Lower plate (mm)
140 x 140 x 15	140 x 140 x 15

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 17 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Height (mm)	Tube Ø (mm)
Wood	Steel		
376,0 / 50,0	438,0* / 160,2*	160	82,5 x 5

with strut 120 x 140 x 10 mm incl. two boreholes Ø 13 mm

Art.-Nr.: 11008.2250

Dimensions:

Upper plate (mm)	Lower plate (mm)
140 x 140 x 15	140 x 140 x 15

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 17 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Height (mm)	Tube Ø (mm)
Wood	Steel		
376,0 / 50,0	350,0* / 160,2*	250	82,5 x 5

with strut 120 x 140 x 10 mm incl. two boreholes Ø 13 mm

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
50937.3000	Twist drill Ø 30 mm	198
58000.0000	Milling and assembly templates FM8	206
58000.1100	Milling template for FM8	207
99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
99210.1016	Washer-head screws T-Drive full-thread 10 x 160 mm	222
99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP plus Post bases Heavy-duty version
Adjustable version

Art.-Nr.: 11008.6150

Dimensions:

Upper plate (mm)	Lower plate (mm)	InnenThread (mm)	Mandrel tube Ø42,4 mm
Ø 140 x 8	140 x 140 x 10	M 30 x 90	70

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Adjustment range (mm)	Tube Ø (mm)
Wood	Steel		
260,0 / 50,0	260,8* / 69,61*	150 - 200	76,1 x 6,3

Art.-Nr.: 11008.6200

Dimensions:

Upper plate (mm)	Lower plate (mm)	InnenThread (mm)	Mandrel tube Ø42,4 mm
Ø 140 x 8	140 x 140 x 10	M 30 x 90	70

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Adjustment range (mm)	Tube Ø (mm)
Wood	Steel		
260,0- / 50,0	244,4* / 69,61*	200 - 250	76,1 x 6,3

Art.-Nr.: 11008.6250

Dimensions:

Upper plate (mm)	Lower plate (mm)	InnenThread (mm)	Mandrel tube Ø42,4 mm
Ø 140 x 8	140 x 140 x 10	M 30 x 90	70

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Adjustment range (mm)	Tube Ø (mm)
Wood	Steel		
260,0 / 50,0	240,4* / 69,61*	250 - 300	76,1 x 6,3

Art.-Nr.: 11008.7190

Dimensions:

Upper plate (mm)	Lower plate (mm)
160 x 160 x 12	160 x 160 x 12

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Adjustment range (mm)	Tube Ø (mm)
Wood	Steel		
515,0 / 50,0	516,9* / 90,88*	190 - 260	82,5 x 5

Art.-Nr.: 11008.8190

Dimensions:

Upper plate (mm)	Lower plate (mm)
160 x 160 x 12	280 x 160 x 12

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 13 mm)	CE
4	4	*

max. characteristic load capacity (kN)* compression / tension		Adjustment range (mm)	Tube Ø (mm)
Wood	Steel		
515,0 / 50,0	516,9* / 72,44*	190 - 260	82,5 x 5

Heavy-duty post base adjustable, in order to enable with heavy load action a quick and precise assembly and compensate eventual height differences.
* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413

Accessoires

Art.-Nr.	Description	Page
50020.3000	Drill jig Ø 30 mm	205
50934.2000	Grooving cutter Ø 20 mm	210
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58000.0000	Milling and assembly templates FM8	206
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99210.1012	Washer-head screws T-Drive full-thread 10 x 120 mm	222
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99110.1012	Washer-head screws T-Drive full-thread 10 x 120 mm V2A	222

PTP easy Post bases Threaded rods
With thread M20

Art.-Nr.: 11009.0180

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
80 x 80 x 5	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	4	-

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	80,7* / -	150	-

Art.-Nr.: 11009.0100

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	4	-

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	80,7* / -	150	-

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions

The post base is fastened to the cross-grained wood with fully threaded plate screws, 10 x 120 mm.

The lift-off value can be increased by extending the effective thread length. Please refer to our design manual for the formula.

Fasten to foundation with tie bolts, Multi Monti etc.
(must be verified separately).

Art.-Nr.: 11009.1100

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	160 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	4

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	77,9* / -	150	-

Art.-Nr.: 11009.0200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	4	-

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	77,9* / -	250	-

lift-off values with locking latch:

Wood	Steel
30,0	3,6* mit γ_{M1}

lift-off values welded with nut:

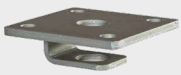
Wood	Steel
30,0	7,4* mit γ_{M1}

Also available

Lift-off protection either by welding the adjusting nut to the upper plate (order example: 11013.1201) or alternatively with a locking latch (order example: 11013.1202).

You can find separate parts like 5-boreholes-plates on page 99.

With welded nut



With locking latch

PTP easy Post bases Threaded rods
With thread M20

Art.-Nr.: 11009.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	160 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	4

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	77,9* / -	250	-

Art.-Nr.: 11009.6200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	200 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	3

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
116,0 / -	78,4* / -	250	One side cut 2 x 45°

lift-off values with locking latch:

Wood	Steel
30,0	3,6* mit γ_{M1}

lift-off values welded with nut:

Wood	Steel
30,0	7,4* mit γ_{M1}

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions

The post base is fastened to the cross-grained wood with fully threaded plate screws, 10 x 120 mm.

The lift-off value can be increased by extending the effective thread length. Please refer to our design manual for the formula.

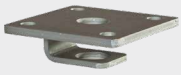
Fasten to foundation with tie bolts, Multi Monti etc.
(must be verified separately).

Also available

Lift-off protection either by welding the adjusting nut to the upper plate (order example: 11013.1201) or alternatively with a locking latch (order example: 11013.1202).

You can find separate parts like 5-boreholes-plates on page 99.

With welded nut



With locking latch

PTP easy Post bases Threaded rods
With thread M24

Art.-Nr.: 11013.0200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	4	-

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
130,0 / -	98,2* / -	250	-

Art.-Nr.: 11013.1200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	160 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	4

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
130,0 / -	98,2* / -	250	-

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions

The post base is fastened to the cross-grained wood with fully threaded plate screws, 10 x 120 mm.

The lift-off value can be increased by extending the effective thread length. Please refer to our design manual for the formula.

Fasten to foundation with tie bolts, Multi Monti etc.
(must be verified separately).

Art.-Nr.: 11013.1300

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	160 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	4

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
130,0 / -	92,9* / -	330	-

Art.-Nr.: 11013.1500

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	160 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	4

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
130,0 / -	80,8* / -	500	-

lift-off values with locking latch:

Wood	Steel
30,0	3,6* mit γ_{M1}

lift-off values welded with nut:

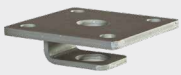
Wood	Steel
30,0	7,4* mit γ_{M1}

Also available

Lift-off protection either by welding the adjusting nut to the upper plate (order example: 11013.1201) or alternatively with a locking latch (order example: 11013.1202).

You can find separate parts like 5-boreholes-plates on page 99.

With welded nut



With locking latch

PTP easy Post bases Threaded rods
Mit Thread M24

Art.-Nr.: 11013.6200

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	200 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)
4	-	3

max. characteristic load capacity (kN)* compression / tension		Thread (mm)	Special feature
Wood	Steel		
130,0 / -	98,2* / -	250	One side cut 2 x 45°

lift-off values with locking latch:

Wood	Steel
30,0	3,6* mit γ_{M1}

lift-off values welded with nut:

Wood	Steel
30,0	7,4* mit γ_{M1}

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413

Assembly instructions

The post base is fastened to the cross-grained wood with fully threaded plate screws, 10 x 120 mm.

The lift-off value can be increased by extending the effective thread length. Please refer to our design manual for the formula.

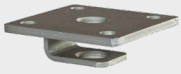
Fasten to foundation with tie bolts, Multi Monti etc.
(must be verified separately).

Also available

Lift-off protection either by welding the adjusting nut to the upper plate (order example: 11013.1201) or alternatively with a locking latch (order example: 11013.1202).

You can find separate parts like 5-boreholes-plates on page 99.

With welded nut



With locking latch

PTP easy Post bases Rigid version
with quadratic upper plate

Art.-Nr.: 11000.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
80 x 80 x 5	80 x 80 x 5	*

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 10,5 mm)	Height (mm)
4	4	100

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
96,0 / 50,0	90,0* / 7,4*	27	-

Art.-Nr.: 11001.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Height (mm)
4	4	125

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
116,0 / 50,0	140,0* / 7,4*	42	-

Art.-Nr.: 11001.1000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Height (mm)
4	4	160

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
116,0 / 50,0	132,0* / 7,4*	42	-

Art.-Nr.: 11001.2000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Height (mm)
4	4	200

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
116,0 / 50,0	120,0* / 7,4*	42	-

Art.-Nr.: 11003.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
100 x 100 x 6	100 x 100 x 6	*

Upper boreholes (Ø 10,5 mm)	Lower boreholes (Ø 10,5 mm)	Height (mm)
4	4	125

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
116,0 / 50,0	140,0* / 7,4*	42	-

Strut 120 x 60 x 6 with two boreholes Ø 12,5 mm

Art.-Nr.: 11007.0000

Dimensions:

Upper plate (mm)	Lower plate (mm)	CE
120 x 120 x 6	120 x 120 x 6	*

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 12 mm)	Height (mm)
4	4	160

max. characteristic load capacity (kN)* compression / tension		Tube-Ø (mm)	Special feature
Wood	Steel		
120,0 / 50,0	132,0* / 16,6*	42	-

Strut 120 x 60 x 6 with two boreholes Ø 12,5 mm

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413.

PTP easy Post bases for screw-in foundations

We offer the manufacturing industries of screw-in foundations the opportunity to execute timber connections with high-quality post bases. The PTP-Series is designed to absorb vertical and horizontal stresses as well as lift-off forces. A height adjustment is possible even when mounted and under heavy load.

Art.-Nr.: 10529.9090

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
Ø 96 x 8	140 x 189 x 6	152,0 / 50,0	96,5* / 36,9*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
-	90	4 x Ø 10,5

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	139 - 199	-

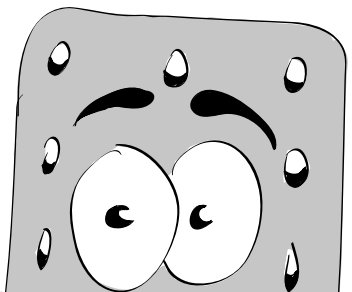
Art.-Nr.: 10529.9990

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
Ø 96 x 8	140 x 189 x 6	152,0 / 50,0	74,0* / 36,9*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
-	150	4 x Ø 10,5

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	201 - 316	-



Art.-Nr.: 10920.9090

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
Ø 96 x 6	140 x 189 x 6	120,0 / 50,0	96,5* / 36,9*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
65	65	4 x Ø 10,5

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	142 - 207	10843.2000

Art.-Nr.: 10921.9000

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
Ø 100 x 6	140 x 189 x 6	120,0 / 50,0	96,2* / 7,4*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
65	65	4 x Ø 12

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	142 - 207	10843.2000

Art.-Nr.: 10922.9000

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
100 x 100 x 6	140 x 189 x 6	177,0 / 50,0	114,0* / 7,4*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
65	65	4 x Ø 12

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	142 - 207	10843.2000

Strut 120 x 60 x 6 with two boreholes Ø 12,5 mm.

The screw-in foundation or rather the connection with it has to be proven separately.
* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PTP easy Post bases for screw-in foundations

Art.-Nr.: 10923.9000

Dimensions:

Upper plate (mm)	Lower plate (mm	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
100 x 100 x 5	140 x 189 x 6	120,0 / 50,0	92,0* / 13,2*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
65	65	4 x Ø 12

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	141 - 206	10834.2000

Art.-Nr.: 10930.9000

Dimensions:

Upper plate (mm)	Lower plate (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
Ø 100 x 8	140 x 189 x 6	120,0 / 50,0	92,0* / 13,2*

Upper thread (M 24)	Lower thread (M24)	Upper boreholes (mm)
65	65	4 x Ø 12

CE	Slotted holes (11 x 60 mm)	Adjustment range (mm)	Matching cover sleeve Article number:
*	4	168 - 283	10834.3001

The screw-in foundation or rather the connection with it has to be proven separately.
* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PTP easy Post bases for screw-in foundations

PTP easy / plus Post bases for embedding in concrete

Rigid version hot-dip galvanized

Art.-Nr.: 11023.0000

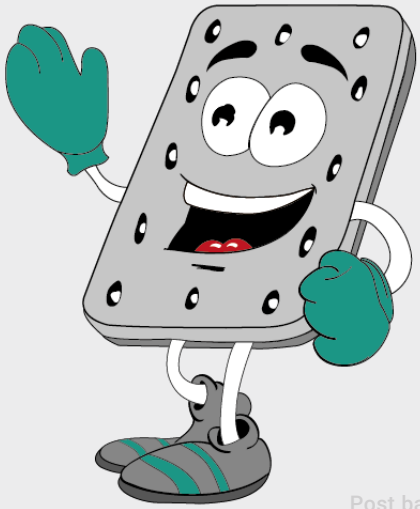
Dimensions:

Upper plate (mm)	Installation height (mm)	CE
80 x 80 x 5	55	-

Lenght reinforcing steel (mm)	Reinforcing steel Ø (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
200	20	96,0 / 14,19	83,0* / -

Assembly instructions

Minimal embedding depth in concrete: 150 mm



Art.-Nr.: 11023.1000

Dimensions:

Upper plate (mm)	Installation height (mm)	CE
80 x 80 x 5	155	-

Lenght reinforcing steel (mm)	Reinforcing steel Ø (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
300	20	96,0 / 14,19	78,0* / -

Art.-Nr.: 11010.5000

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper boreholes (Ø 13 mm)	CE
Ø 100 x 8	60 x 70 x 5	4	-

Tube length (mm)	Tube Ø (mm)	max. characteristic load capacity (kN)* compression / tension	
		Wood	Steel
500	42	81,0 / 50,0	66,0* / 53,6*

The screw-in foundation or rather the connection with it has to be proven separately.
* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PTP easy / plus Post bases for embedding in concrete

Rigid version with tube

Art.-Nr.: 10934.2402

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
-	250	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
120,0 / 50,0	80,8* / 70,48*	-

Art.-Nr.: 10934.3402

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
-	330	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
120,0 / 50,0	68,2* / -	-

Assembly instructions

Minimal embedding depth in concrete: 150 mm

Additional corrosion protection

Concrete reacts highly chemically aggressive to zinc coating.
In order to prevent this we recommend the use of our in house Piko corrosion protection spray. Detailed information and corrosiveness schedule can be found on page 103.

Art.-Nr.: 10934.2302

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 10	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
250	-	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
135,0 / 50,0	141,5* / 70,48*	Heavy-duty version

Art.-Nr.: 10934.3302

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 10	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
330	-	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
135,0 / 50,0	137,8* / 70,48*	Heavy-duty version

The screw-in foundation or rather the connection with it has to be proven separately.
* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PTP easy / plus Post bases for embedding in concrete

Rigid version with threaded rod

Art.-Nr.: 10934.2403

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
-	250	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
120,0 / 50,0	80,8* / 70,48*	-

Art.-Nr.: 10934.3403

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
-	330	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
120,0 / 50,0	68,2* / 70,48*	-

Assembly instructions

Minimal embedding depth in concrete: 150 mm

Additional corrosion protection

Concrete reacts highly chemically aggressive to zinc coating.
In order to prevent this we recommend the use of our in house Piko corrosion protection spray. Detailed information and corrosiveness schedule can be found on page 103.

Art.-Nr.: 10934.2303

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 10	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
250	-	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	Heavy-duty version
133,0 / 50,0	141,5* / 70,48*	

Art.-Nr.: 10934.3303

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 10	130	*

Lower thread (M 30)	Lower thread (M 24)	Upper boreholes (Ø 12 mm)
330	-	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	Heavy-duty version
133,0 / 50,0	137,8* / 70,48*	

The screw-in foundation or rather the connection with it has to be proven separately.
* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PTP easy / plus Post bases for embedding in concrete

Rigid version with threaded rod

with tube, 2 parts

Art.-Nr.: 10950.7052

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Unteres Tube (mm)	Tube Ø (mm)	Upper boreholes (Ø 12 mm)
450	48,3 x 3,25	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
100,0 / 50,0	106,5* / 69,36*	-

with tube thread, 2 parts

Art.-Nr.: 10950.7053

Dimensions:

Upper plate (mm)	Mandrel tube Ø 42,4 mm	CE
Ø 100 x 8	130	*

Unteres Tube (mm)	Tube Ø (mm)	Upper boreholes (Ø 12 mm)
450	48,3 x 3,25	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
100,0 / 50,0	106,5* / 69,36*	-

with thread mandrel, 2 parts

Art.-Nr.: 10950.7051

Dimensions:

Upper plate (mm)	Dorn Thread M 24	CE
Ø 100 x 8	110	*

Unteres Tube (mm)	Tube Ø (mm)	Upper boreholes (Ø 12 mm)
450	48,3 x 3,25	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
100,0 / 50,0	106,5* / 69,36*	-

Not adjustable, must be screwed together firmly.

Art.-Nr.: 11013.3201

Dimensions:

Upper plate (mm)	Thread M24	Holes (Ø 12 mm)
100 x 100 x 6	250	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
138,0 / 30,0	98,2* / 7,4*	-

Art.-Nr.: 11013.3301

Dimensions:

Upper plate (mm)	Thread M24	Holes (Ø 12 mm)
100 x 100 x 6	330	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
138,0 / 30,0	91,0* / 7,4*	-

Art.-Nr.: 11013.3501

Dimensions:

Upper plate (mm)	Thread M24	Holes (Ø 12 mm)
100 x 100 x 6	500	4

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
138,0 / 30,0	80,8* / 7,4*	-

Welded with nut and loose nut for countering. The plate is optionally available in 80 x 80 mm and 100 x 100 mm.

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413.
The concrete foundation has to be proven separately.

PAP Post anchors, hot-dip galvanized

Post anchor H-shape

Continuously adjustable up to 145 mm
Including 8 nuts M12 and 2 threaded rods

Art.-Nr.: 11042.0000

Dimensions:

Flat iron (mm)	Holes (12,5 mm)	CE
600 x 60 x 6	4	*

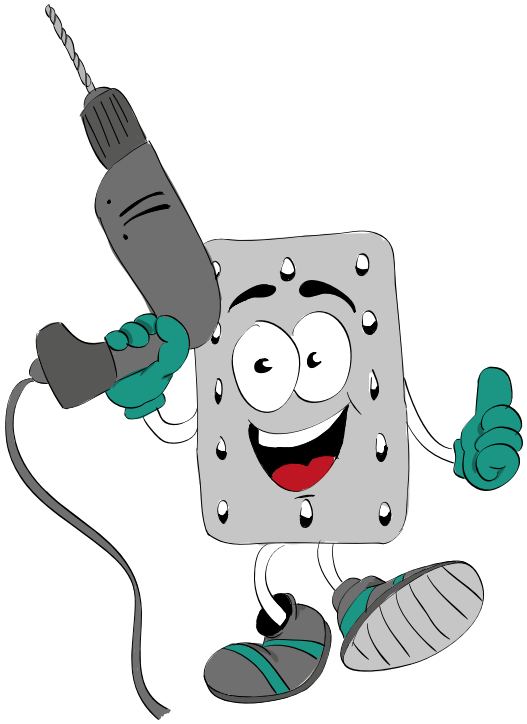
max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
13,3 / 13,3	133,0* / -	-

Art.-Nr.: 11042.8000

Dimensions:

Flat iron (mm)	Holes (12,5 mm)	CE
800 x 60 x 6	4	*

max. characteristic load capacity (kN)* compression / tension		Special feature
Wood	Steel	
13,3 / 13,3	133,0* / -	-



Heavy-duty version

Art.-Nr.: 11044.0071

Dimensions:

Base plate (mm)	Lugs (mm)	Holes (Ø 11 mm)
60 x 8 x 210	60 x 6 x 200	8

max. characteristic load capacity (kN)* compression / tension		Spacing (mm)	CE
Wood	Steel		
14,14 / 14,14	138,0* / -	71	*

Art.-Nr.: 11044.0081

Dimensions:

Base plate (mm)	Lugs (mm)	Holes (Ø 11 mm)
60 x 8 x 210	60 x 6 x 200	8

max. characteristic load capacity (kN)* compression / tension		Spacing (mm)	CE
Wood	Steel		
14,14 / 14,14	138,0* / -	81	*

Art.-Nr.: 11044.0091

Dimensions:

Base plate (mm)	Lugs (mm)	Holes (Ø 11 mm)
60 x 8 x 210	60 x 6 x 200	8

max. characteristic load capacity (kN)* compression / tension		Spacing (mm)	CE
Wood	Steel		
14,14 / 14,14	138,0* / -	91	*

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413.

PAP Post anchors, hot-dip galvanized

Post bases for fence posts

Heavy version

Art.-Nr.: 11044.0101

Dimensions:

Base plate (mm)	Lugs (mm)	Holes (Ø 11 mm)
60 x 8 x 210	60 x 6 x 200	8

max. characteristic load capacity (kN)* compression / tension		Spacing (mm)	CE
Wood	Steel	101	*
14,14 / 14,14	138,0* / -		

Art.-Nr.: 11044.0121

Dimensions:

Base plate (mm)	Lugs (mm)	Holes (Ø 11 mm)
60 x 8 x 210	60 x 6 x 200	8

max. characteristic load capacity (kN)* compression / tension		Spacing (mm)	CE
Wood	Steel	121	*
14,14 / 14,14	138,0* / -		

* For further static values as well as calculations
and steel load capacity see design manual or ETA 10/0413.

PAP Post anchors, hot-dip galvanized

PAP Post anchors, hot-dip galvanized

Post anchor Atlas

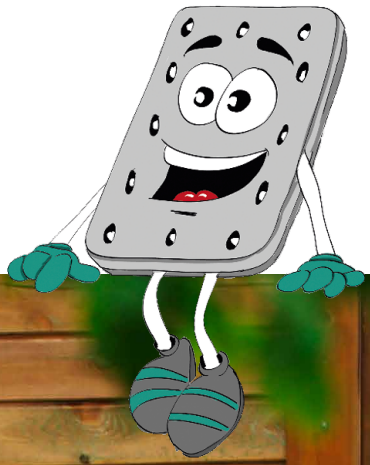
We would like to point out that the product group „PAP post anchors hot-dip galvanized“ is not suitable for use with static requirements.
2-part for doweling.

Art.-Nr.: 11046.0000

Dimensions:

Dimensions (mm)	Total height (12,5 mm)	Support height (mm)
60 x 5	139	33

Minimum timber thickness (mm)	Holes Ø 11 mm (per anchor)
40	5



Art.-Nr.: 15700.0000

Dimensions:

Dimensions (mm)	Holes Ø 12,5 mm
160 x 100 x 60 x 6	4

Art.-Nr.: 15710.0000

Dimensions:

Dimensions (mm)	Holes Ø 12,5 mm
180 x 100 x 80 x 8	4

Art.-Nr.: 15720.0000

Dimensions:

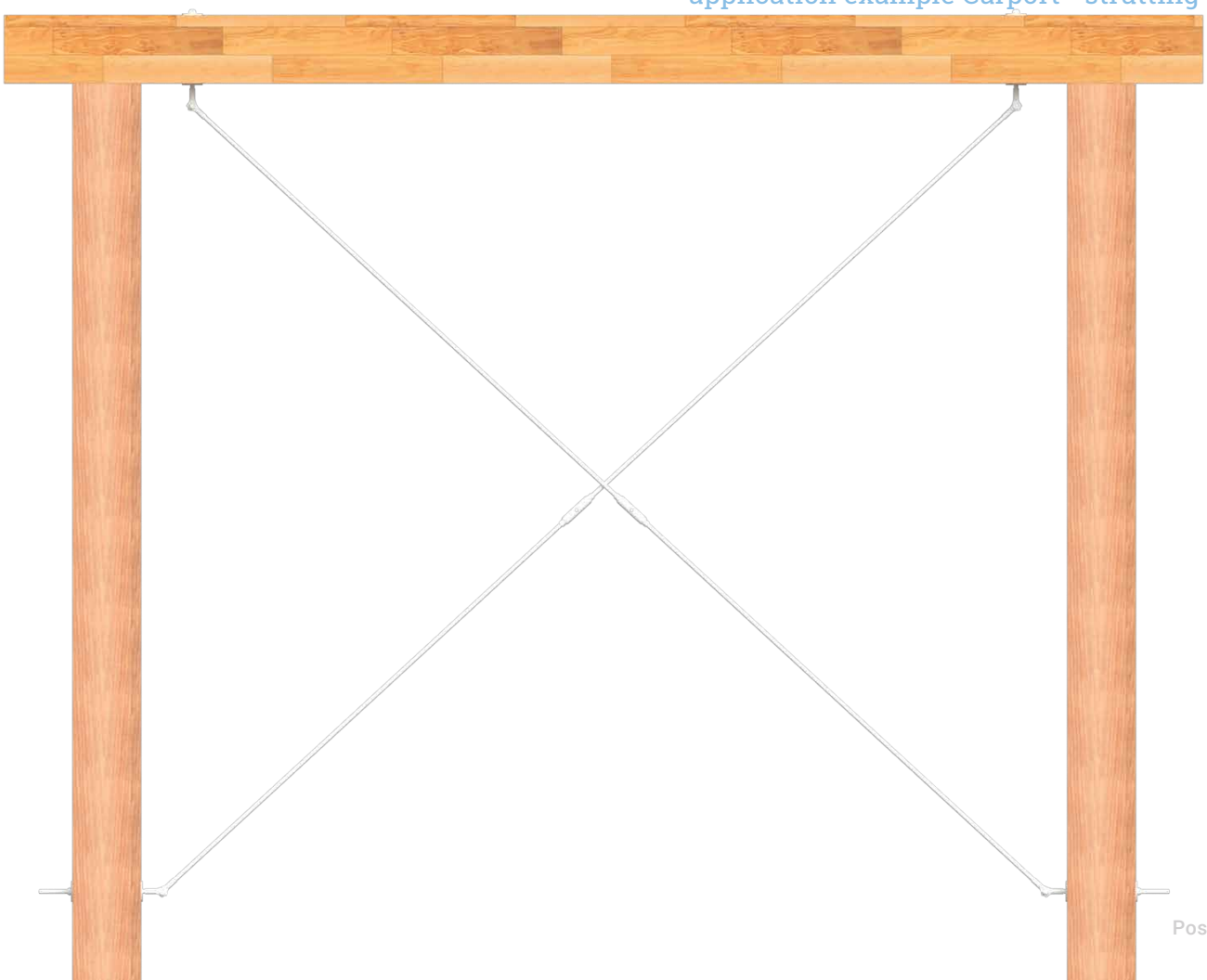
Dimensions (mm)	Holes Ø 12,5 mm
200 x 100 x 100 x 10	4

Carport
Carport - bracing V2A

2 parts, with washers 60 x 3 mm and nuts M12

Art.-Nr.	Measurements mm	Adjustment range mm	Connection thread mm
15500.0000	12 x 3400	3380 - 3420	M12x250 + M12x330

application example Carport - strutting



Carport Post bases
with locked nut M24

Art.-Nr.: 10921.1104

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 100 x 6	100 x 100 x 6	85	90

Upper boreholes (Ø 12 mm)	Lower boreholes (Ø 13 mm)	Adjustment range (mm)	CE
4	4	190 - 255	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	90,2* / 7,4*	10834.2010	with lock nuts for stiffening

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413.

Carport Post bases
With locked nuts M24

The post base for free standing Carports or Pergolas!
Locked nuts guarantee high stiffness and strongly decrease deformation in horizontal alignment on top and bottom plates.

Art.-Nr.: 10920.1194

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	90	90

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	192 - 262	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	87,9* / 20,76*	-	with lock nuts for stiffening

Art.-Nr.: 10920.1294

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	120	120

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	262-382	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	60,8* / 20,76*	-	with lock nuts for stiffening

Art.-Nr.: 10920.1394

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M24)	Lower thread (M24)
Ø 96 x 6	160 x 100 x 6	120	120

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	382 - 502	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
120,0 / 50,0	42,2* / 20,76*	-	with lock nuts for stiffening

Art.-Nr.: 10920.1195

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 6	90	90

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	200 - 260	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	152,8* / 58,2*	-	with lock nuts for stiffening

Art.-Nr.: 10920.1295

Dimensions:

Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 6	120	120

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	260 - 380	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	129,0* / 58,2*	-	with lock nuts for stiffening

Art.-Nr.: 10920.1395

Dimensions:

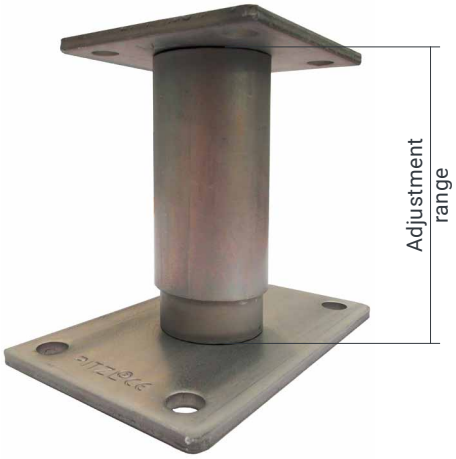
Upper plate (mm)	Lower plate (mm)	Upper thread (M30)	Lower thread (M30)
Ø 100 x 10	160 x 100 x 6	120	120

Upper boreholes (Ø 11 mm)	Lower boreholes (Ø 12 mm)	Adjustment range (mm)	CE
4	4	370 - 490	*

max. characteristic load capacity (kN)* compression / tension		Matching cover sleeve Article number:	Special feature
Wood	Steel		
169,0 / 50,0	108,9* / 58,2*	-	with lock nuts for stiffening

* For further static values as well as calculations and steel load capacity see design manual or ETA 10/0413.

Post base accessoires
Cover sleeves



Example

Art.-Nr.	Thread	Adjustment range mm
10832.0000	M20	100 - 185
10832.0010	M20	190 - 275
10834.1060	M24	60 - 105
10834.2000	M24	115 - 215
10834.2010	M24	140 - 240
10834.3001	M24	140 - 265
10834.1012	M24	180 - 305
10834.2030	M24	200 - 325
10834.2035	M24	220 - 345
10834.3020	M24	200 - 385
10834.3030	M24	220 - 405
10834.2040	M24	270 - 395
10833.2000	M30	115 - 215
10833.3000	M30	155 - 295

Standard

Nut welded

Safety latch

Art.-Nr.	Plate M 20 (mm)	Plate M 24 (mm)	Holes Ø 12 mm	Note
90000.2080	80 x 80 x 5		4	
90000.2000	100 x 100 x 6		4	
90000.2082	80 x 80 x 5		4	with safety latch
90000.2002	100 x 100 x 6		4	with safety latch
90000.2081	80 x 80 x 5		4	with welded nut
90000.2001	100 x 100 x 6		4	with welded nut
90000.4080		80 x 80 x 5	4	
90000.4000		100 x 100 x 6	4	
90000.4082		80 x 80 x 5	4	with safety latch
90000.4002		100 x 100 x 6	4	with safety latch
90000.4081		80 x 80 x 5	4	with welded nut
90000.4001		100 x 100 x 6	4	with welded nut

Lock nut

for retroactive mounting to installed post bases.

Art.-Nr.	Description
98024.0002	Nut M24 2 parts, right
98124.0002	Nut M24 2 parts, left

Chimney fastening

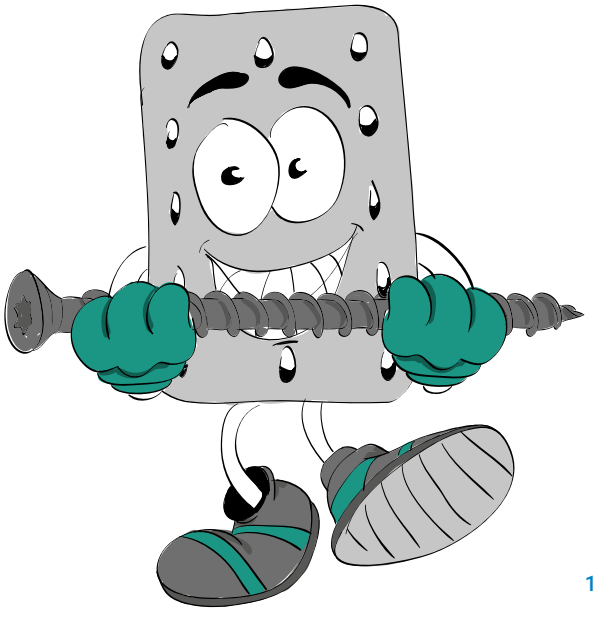
Continuously adjustable up to 900 mm rafter clearance.

Art.-Nr.	Description
15920.0000	two pairs

Threaded rod for the extension of the chimney fastening (Art-Nr. 15920.0000)

up to 1900 mm (M12 x 1000 mm)

Art.-Nr.	Description
15921.0000	two pairs



Decorative covers
Decorative connectors

Art.-Nr.	Dimensions (mm)	Holes (mm)
11017.0000	250 x 60 x 5	2x Ø 12 mm
11018.0000	300 x 60 x 5	2x Ø 12 mm

Rosettes

Art.-Nr.	Dimensions (mm)	Holes (mm)
11125.0000	Ø 64 x 5	Ø 12,5
11165.0000	Ø 64 x 5	Ø 16,5

Corrosion protection

PIKO - corrosion protection for unique requirements

In practice, there are always exceptional situations for corrosion protection. We recommend, for example, that additional corrosion protection be applied to the affected area of the column base after the installation of tiles or paving and the use of cement-containing materials during bonding.

Corossion schedule

Claim	layer thickness with durability up to 5 years	up to 10 years	more than 15 years
C1. Insignificant	min. 60 µ	min. 60 µ	min. 80 µ
C2. Slight	min. 60 µ	min. 80 µ	min. 160 µ
C3. Modest	min. 80 µ	80 - 160 µ	160 - 240 µ
C4. Strong	80 - 160 µ	min. 160 µ	min. 240 µ
C5. Very strong	160 - 240 µ	160 - 240 µ	240 - 320 µ

Examples:

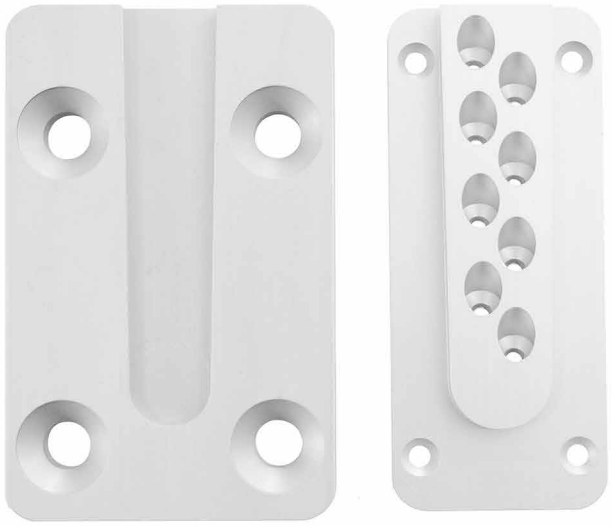
- C1: indoors: heated buildings (schools, hotels, office buildings)
- C2: indoors: unheated buildings
  outdoors: rural areas
- C3: indoors: production rooms, laundry rooms
  outdoors: urban- and industrial atmosphere
- C4: indoors: industrial facilities, pools
  outdoors: industrial- and coastal area
- C5: indoors: buildings with constant condensation
  outdoors: coastal- and offshore areas with high humidity, aggressive atmosphere

Art.-Nr.	Quantity	Color
56100.0000	400 ml	RAL 9007

Application

1. Clean — First clean the post base.
   It should be largely dry and free of oil, grease and dust.
   It should also be free of cleaning agents, acids and salts.
2. Shake — Shake the can for at least 3 minutes before use.
3. Spray — Spray the post base at the bottom and endangered areas.
   Allow the layer to dry before applying another one.

With one spraying process a layer thickness of approximately 60 - 70 µ can be achieved.



Connectors

ETA-10/0413 ETA-15/0187 ETA-21/0750

Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP® max protection

schwerlast HVP heavy duty

Content

Assembly instructions

Arrangement with shadow joint

First mount the straight screw connection of the connectors and then provide all holes with screws. Make sure that the surface is flat and that the minimum edge distances are observed. You will find these on page 108.

Hidden arrangement

Our HVP connectors can be milled into the main or secondary beam. Please make sure that the total thickness of the connector is not exceeded. We recommend milling in less than 1 - 3 mm to ensure easier insertion.

Arrangement variants

Hidden column connection

Replacements:

Stairs, skylight, chimney

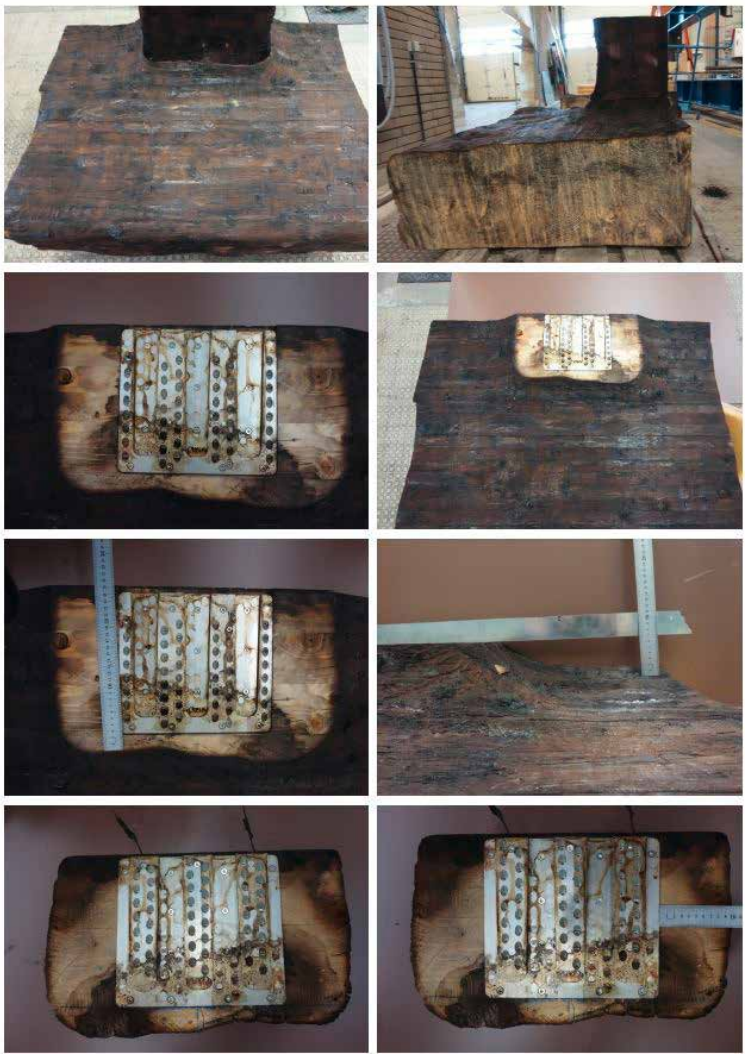
Hidden connection of secondary beams on both sides

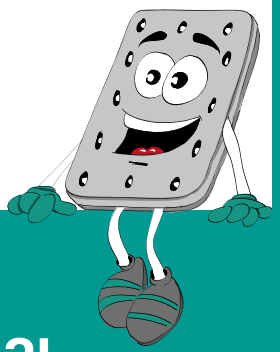
HVP fire protection concept

Preventive fire protection is becoming increasingly important. Particularly in structural wood construction a maximal safety must be respected in order to be able to offer an optimal protection. As a leading full-range supplier of wood connection systems, we have thoroughly tested the fire protection offered by our HVP connector system and included the results in our European Technical Approval.

Fire tests with the University Innsbruck Duration: 120 minutes

Please see the image on the right:
Pitzl HVP-Connectors after a fire test.





Pitzl HVP-connectors: authorized for the **service classes 1, 2 and 3!**

Minimum edge distances

For a flush perpendicular connection

Optimized screws lengths and minimal distances to the edges, higher load capacity, accuracy of fit for little timber sections, double connectors and end-grain-to-end-grain connections brings the advantages of the new HVP connector directly to the customer.

Valid for Heco screws, for other screws the manufacturer's specifications apply.

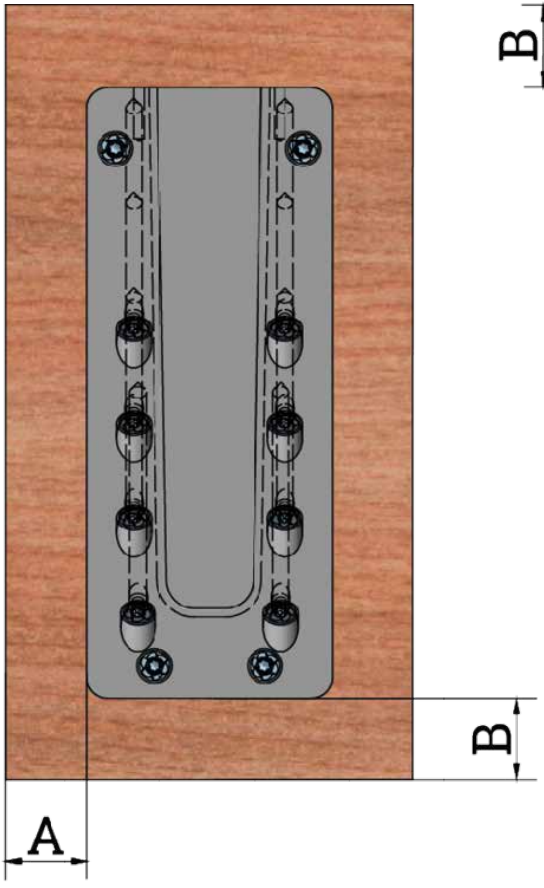
HVP-Series 880 - 881					
HVP-Series	Lateral "A"	Top and bottom "B" with screws:			
		Ø 4,5 x 50	Ø 4,5 x 60	Ø 4,5 x 70	Ø 4,5 x 80
880	10 mm	5 mm	10 mm	15 mm	20 mm
881	Part 1: 10 mm Part 2: 5 mm				

HVP-Series 882 - 883					
HVP-Series	Lateral "A"	Top and bottom „B" with screws:			
		Ø 5 x 60	Ø 5 x 80	Ø 5 x 100	Ø 5 x 120
882 und 883	10 mm	10 mm	25 mm	40 mm	55 mm

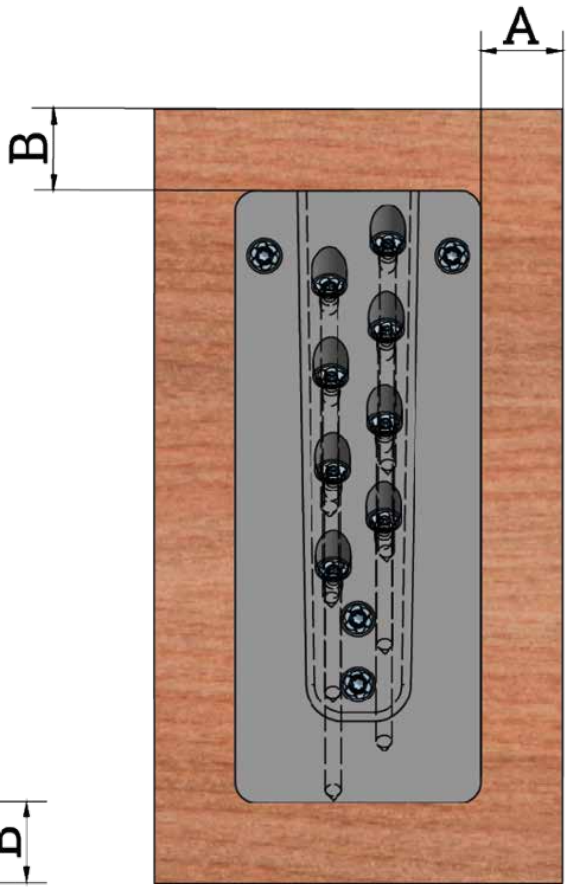
Heavy-duty-HVP-Series 884 - 885						
HVP-Series		Top and bottom „B" with screws:				
	Lateral "A"	Ø 8 x 160	Ø 8 x 180	Ø 8 x 200	Ø 8 x 220	Ø 8 x 240
884	10 mm	10 mm	25 mm	40 mm	55 mm	70 mm
885	10 mm					

See image on the right.

Application for main beam



Application for secondary beam



HVP Connectors

Wood-to-wood connections

Optimum edge distances and variable screw lengths guarantee a precise fit for every wood cross-section

Art.-Nr.: 88004.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	25 x 40 x 12	6	*	20

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 50	45 x 50	2,5	3,9

Art.-Nr.: 88006.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	25 x 60 x 12	8	*	20

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 70	45 x 70	5	7,9

HVP - Uplift protection

Alternatively the Pitzl HVP series 88004.0000 to 88115.0000 can be ordered with uplift protection.

If interested in uplift protection please name the following Art-Nr.:
„XXXXX.1000“ // Order example: 88115.1000

The scope of delivery includes:

Series 880: 1 drilled hole + 1 self-tapping screw Ø 4 x 10 mm
Series 881: 2 threaded drilled holes + 2 screws Ø 5 x 20 mm
+ 1 uplift protection flat steel

Art.-Nr.: 88008.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	25 x 80 x 12	10	*	20

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 90	45 x 90	7,5	11,98

Art.-Nr.: 88010.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	25 x 100 x 12	12	*	20

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 110	45 x 110	10,01	15,97

Art.-Nr.: 88107.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	40 x 70 12	10	*	10

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 80	50** x 80	7,5	11,98

Please find the accessories and screws on page 113.

* $F_{2,Rk}$ (kN) at GL24h with VG screws: Ø4.5 x 50 with effective thread length of 45 mm and Ø 4.5 x 80 with effective thread length of 74 mm.
For other screw and thread lengths or wood materials: see structural analysis manual.
** Valid for part 2: attached to the end grain, otherwise 60mm.

HVP Connectors

Wood-to-wood connections

Optimum edge distances and variable screw lengths guarantee a precise fit for every wood cross-section.

Art.-Nr.: 88109.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	40 x 90 x 12	14	*	10

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 100	50** x 100	10,01	15,97

Art.-Nr.: 88111.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	40 x 110 x 12	16	*	10

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 120	50** x 120	12,51	19,97

HVP - Uplift protection

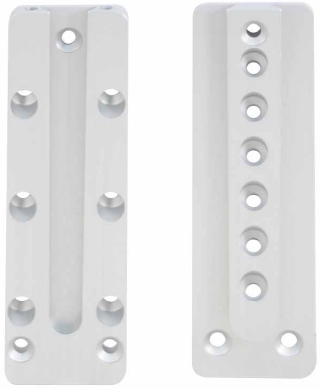
Alternatively the Pitzl HVP series 88004.0000 to 88115.0000 can be ordered with uplift protection.

If interested in uplift protection please name the following Art-Nr.:
„XXXXX.1000“ // Order example: 88115.1000

The scope of delivery includes:

Series 880: 1 drilled hole + 1 self-tapping screw Ø 4 x 10 mm
Series 881: 2 threaded drilled holes + 2 screws Ø 5 x 20 mm
+ 1 uplift protection flat steel

Art.-Nr.: 88113.0000



Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	40 x 130 x 12	18	*	10

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 140	50** x 140	15,01	23,96

Art.-Nr.: 88115.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 4,5 x 50 - 80	40 x 150 x 12	22	*	10

Minimum wood dimensions with screws Ø 4.5 x 50 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 4,5 x 50	Ø 4,5 x 80
60 x 160	50** x 160	20,1	31,95

* $F_{2,Rk}$ (kN) at GL24h with VG screws: Ø4.5 x 50 with effective thread length of 45 mm and Ø 4.5 x 80 with effective thread length of 74 mm.
For other screw and thread lengths or wood materials: see structural analysis manual.
** Valid for part 2: attached to the end grain, otherwise 60mm.

Accessoires

Art.-Nr.	Description	Page
50934.1000	Grooving cutter Ø 10 mm	210
58000.0000	Milling and assembly templates FM8	206
58396.0000	Collet holder	210
58396.0008	Collet Ø 8 mm	210
58399.0000	Milling unit consisting of milling drill, milling template and manual router bit	208

Screws

Art.-Nr.	Description	Page
99211.4550	Countersunk screws Ø 4,5 x 50 mm	218
99211.4560	Countersunk screws Ø 4,5 x 60 mm	218
99211.4580	Countersunk screws Ø 4,5 x 80 mm	218

HVP Connectors

Wood-to-wood connections

Optimum edge distances and variable screw lengths guarantee a precise fit for every wood cross-section.

Art.-Nr.: 88210.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	60 x 100 x 12	18	*	10

Minimum wood dimensions with screws Ø5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 120	80 x 120	19,81	38,82

Art.-Nr.: 88214.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	60 x 140 x 12	24	*	10

Minimum wood dimensions with screws Ø5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 160	80 x 160	31,7	62,11

HVP - Uplift protection

Alternatively the Pitzl HVP series 88004.0000 to 88115.0000 can be ordered with uplift protection.

If interested in uplift protection please name the following Art-Nr.:
„XXXXX.1000“ // Order example: 88115.1000

The scope of delivery includes:

Series 880: 1 drilled hole + 1 self-tapping screw Ø 4 x 10 mm
Series 881: 2 threaded drilled holes + 2 screws Ø 5 x 20 mm
+ 1 uplift protection flat steel

Connectors of the series 882 - 884 in double version (from Page 128).
Double width for double load capacity. The perfect connection for square timber sections or wide beams with low height.

Art.-Nr.: 88318.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	80 x 180 x 12	34	*	10

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 200	100 x 200	47,55	93,17

Art.-Nr.: 88322.0000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	80 x 220 x 12	44	*	10

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 240	100 x 240	63,41	124,22

* $F_{2,Rk}$ (kN) at GL24h with VG screws: Ø 5 x 60 with effective thread length of 54 mm and Ø 5 x 120 with effective thread length of 114 mm.
For other screw and thread lengths or wood materials: see structural analysis manual.

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58396.0000	Collet holder	210
58396.0012	Collet Ø 12 mm	210
58399.0000	Milling unit consisting of milling drill, milling template and manual router bit	208

Screws

Art.-Nr.	Description	Page
99211.5060	Countersunk screws Ø 5 x 60 mm	218
99211.5080	Countersunk screws Ø 5 x 80 mm	218
99211.5100	Countersunk screws Ø 5 x 100 mm	218
99211.5120	Countersunk screws Ø 5 x 120 mm	218

HVP Heavy-duty Connectors

Art.-Nr.: 88420.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 200 x 20	16	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 220	140 x 220	50,29	72,72

Art.-Nr.: 88425.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 250 x 12	20	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 270	140 x 270	75,43	109,09

Art.-Nr.: 88430.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 300 x 20	24	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 320	140 x 320	100,58	145,45

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

Art.-Nr.: 88435.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 350 x 20	28	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 370	140 x 370	125,72	181,81

Art.-Nr.: 88440.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 400 x 20	32	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 420	140 x 420	150,86	218,17

Art.-Nr.: 88445.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 450 x 20	36	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 470	140 x 470	176,01	254,53

Please find the accessories and screws on page 120.

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual

HVP Heavy-duty Connectors

Art.-Nr.: 88450.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 500 x 20	40	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 520	140 x 520	201,15	290,9

Art.-Nr.: 88455.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 550 x 20	44	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 570	140 x 570	226,29	327,26

Art.-Nr.: 88460.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	120 x 600 x 20	48	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 620	140 x 620	251,44	363,62

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

Art.-Nr.: 88540.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	140 x 400 x 20	40	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 420	160 x 420	201,15	290,9

Art.-Nr.: 88545.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	140 x 450 x 20	48	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 470	160 x 470	251,44	363,62

Art.-Nr.: 88550.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	140 x 500 x 20	52	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 520	160 x 520	276,58	399,98

Please find the accessories and screws on page 120.

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual

HVP Heavy-duty Connectors

The heavy-duty HVP of the series 885 with a width of 140 mm are optimally suitable for wide beams (from 170 mm) under very high loads.

Art.-Nr.: 88555.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	140 x 550 x 20	56	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 570	160 x 570	301,73	436,34

Art.-Nr.: 88560.1000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	140 x 550 x 20	64	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 620	160 x 620	352,01	509,07**

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual
** please note the aluminium load capacity
For further information please see in the design manual.

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58396.0000	Collet holder	210
58396.0012	Collet Ø 12 mm	210
58400.0000	Milling and assembly templates FM84	206

Screws

Art.-Nr.	Description	Page
99211.0880	Countersunk screws Ø 8 x 80 mm	219
99211.0810	Countersunk screws Ø 8 x 100 mm	219
99211.0812	Countersunk screws Ø 8 x 120 mm	219
99211.0816	Countersunk screws Ø 8 x 160 mm	219
99211.0818	Countersunk screws Ø 8 x 180 mm	219
99211.0820	Countersunk screws Ø 8 x 200 mm	219
99211.0822	Countersunk screws Ø 8 x 220 mm	219
99211.0824	Countersunk screws Ø 8 x 240 mm	219

... and even when things get difficult,
you can rely on me!

HVP Heavy-duty Connectors
With reduced width

Art.-Nr.: 88420.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 200 x 20	15	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 220	120 x 220	50,29	72,72

Art.-Nr.: 88425.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 250 x 12	19	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 270	120 x 270	75,43	109,09

Art.-Nr.: 88430.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 300 x 20	23	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 320	120 x 320	100,58	145,45

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

Art.-Nr.: 88435.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 350 x 20	28	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 370	120 x 370	125,72	181,81

Art.-Nr.: 88440.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 400 x 20	32	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 420	120 x 420	150,86	218,17

Art.-Nr.: 88445.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 450 x 20	36	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 470	120 x 470	176,01	254,53

Please find the accessories and screws on page 125.

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual

HVP Heavy-duty Connectors
With reduced width

Art.-Nr.: 88450.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 500 x 20	40	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 520	120 x 520	201,15	290,9

Art.-Nr.: 88455.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 550 x 20	44	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 570	120 x 570	226,29	327,26**

Art.-Nr.: 88460.0100

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	100 x 600 x 20	48	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 620	120 x 620	251,44	363,62**

** please note the aluminium load capacity. For further information please see 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).

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58396.0000	Collet holder	210
58396.0012	Collet Ø 12 mm	210

Screws

Art.-Nr.	Description	Page
99211.0880	Countersunk screws Ø 8 x 80 mm	219
99211.0810	Countersunk screws Ø 8 x 100 mm	219
99211.0812	Countersunk screws Ø 8 x 120 mm	219
99211.0816	Countersunk screws Ø 8 x 160 mm	219
99211.0818	Countersunk screws Ø 8 x 180 mm	219
99211.0820	Countersunk screws Ø 8 x 200 mm	219
99211.0822	Countersunk screws Ø 8 x 220 mm	219
99211.0824	Countersunk screws Ø 8 x 240 mm	219

HVP Double Connectors
Standard

Art.-Nr.: 88210.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	120 x 100 x 12	32	*	4

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 120	140 x 120	39,63	77,64

Art.-Nr.: 88214.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	120 x 140 x 12	44	*	4

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 160	140 x 160	63,41	124,22

Double HVP connectors are automatically delivered with uplift protection

Art.-Nr.: 88318.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	160 x 180 x 12	64	*	4

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 200	180 x 200	95,11	186,33

Art.-Nr.: 88322.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 5 x 60 - 120	160 x 220 x 12	84	*	4

Minimum wood dimensions with screws Ø 5 x 60 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 5 x 60	Ø 5 x 120
70 x 240	180 x 240	126,81	248,44**

* $F_{2,Rk}$ (kN) at GL24h with VG screws: Ø 5 x 60 with effective thread length of 54 mm and Ø 5 x 120 with effective thread length of 114 mm.
For other screw and thread lengths or wood materials: see structural analysis manual.
** please note the aluminium load capacity. For further information please see design manual

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58000.0000	Milling and assembly templates FM8	206
58396.0000	Collet holder	210
58396.0012	Collet Ø 12 mm	210
58399.0000	Milling unit consisting of milling drill, milling template and manual router bit	208

Screws

Art.-Nr.	Description	Page
99211.5060	Countersunk screws Ø 5 x 60 mm	218
99211.5080	Countersunk screws Ø 5 x 80 mm	218
99211.5100	Countersunk screws Ø 5 x 100 mm	218
99211.5120	Countersunk screws Ø 5 x 120 mm	218

HVP Double Connectors
Heavy-duty

Art.-Nr.: 88420.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 200 x 20	28	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 220	260 x 220	100,58	145,45

Art.-Nr.: 88425.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 250 x 20	36	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 270	260 x 270	150,86	218,17

Art.-Nr.: 88430.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 300 x 20	44	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 320	260 x 320	201,15	290,9

Double HVP connectors are automatically delivered with uplift protection.

Art.-Nr.: 88435.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 350 x 20	52	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
160 x 370	260 x 370	251,44	363,62

Art.-Nr.: 88440.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 400 x 20	60	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 420	260 x 420	301,73	436,34

Art.-Nr.: 88445.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 450 x 20	68	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 470	260 x 470	352,01	509,07

Please find the accessories and screws on page 131.

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual

HVP Double Connectors
Heavy-duty

Art.-Nr.: 88450.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 500 x 20	76	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 520	260 x 520	402,3	581,79

Art.-Nr.: 88455.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 550 x 20	84	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 570	260 x 570	452,59	654,51

Art.-Nr.: 88460.2000

Dimensions:

Screw size (mm)	Dimensions W x h x d (mm)	Number of screws	CE	VPE
Ø 8 x 80 - 240	240 x 600 x 20	92	*	4

Minimum wood dimensions with screws Ø 8 x 160 (mm)		Characteristic load capacity* in insertion direction (kN)	
Main beam	Secondary beam	Ø 8 x 160	Ø 8 x 240
170 x 620	260 x 620	502,88	727,24**

Double HVP connectors are automatically delivered with uplift protection.

* $F_{2,Rk}$ (kN) for GL24h with fully threaded screws: Ø 8 x 160 with effective thread length of 150 mm and Ø 8 x 240 with effective thread length of 226 mm. For other screws and thread lengths or wood based materials: design manual.
** please note the aluminium load capacity. For further information please see design manual

Accessoires

Art.-Nr.	Description	Page
50934.2000	Grooving cutter Ø 20 mm	210
58396.0000	Collet holder	210
58396.0012	Collet Ø 12 mm	210

Screws

Art.-Nr.	Description	Page
99211.0880	Countersunk screws Ø 8 x 80 mm	219
99211.0810	Countersunk screws Ø 8 x 100 mm	219
99211.0812	Countersunk screws Ø 8 x 120 mm	219
99211.0816	Countersunk screws Ø 8 x 160 mm	219
99211.0818	Countersunk screws Ø 8 x 180 mm	219
99211.0820	Countersunk screws Ø 8 x 200 mm	219
99211.0822	Countersunk screws Ø 8 x 220 mm	219
99211.0824	Countersunk screws Ø 8 x 240 mm	219

HVP Connectors for steel or concrete connections
Standard

Equally sturdy and simple HVP connection to concrete or steel up to about 307 kN. An anchor plate with concrete anchors ensures that the forces are applied properly into the concrete element. The secondary beam connection is realised with a normal HVP connector part.

Art.-Nr.: 88210.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
18	4	*	4	100

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 5 x 60 (mm)
Secondary beam	Main beam		
60	90	9 St. Ø 5 x 60 - 120	80 x 120

Art.-Nr.: 88214.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
18	4	*	4	140

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 5 x 60 (mm)
Secondary beam	Main beam		
60	90	12 St. Ø 5 x 60 - 120	80 x 160

Remark

Characteristic load-bearing capacity of timber part: see timber-timber connections.

The load capacity of the concrete part (anchor and concrete) must be verified separately.

Product information

Standard HVP connectors for steel or concrete connection are automatically delivered with uplift protection (2 screws and flat steel for uplift protection included).

Art.-Nr.: 88318.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
18	4	*	4	180

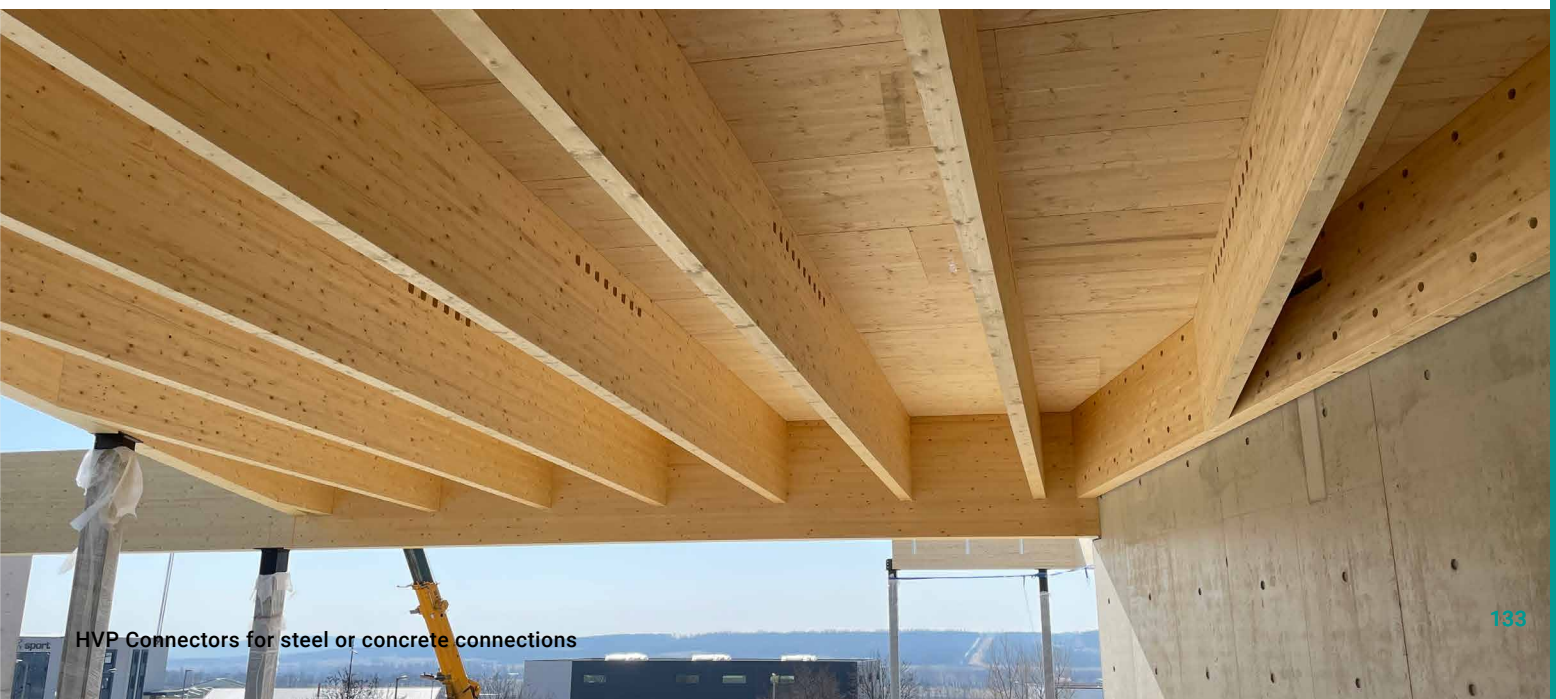
Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 5 x 60 (mm)
Secondary beam	Main beam		
80	110	17 St. Ø 5 x 60 - 120	100 x 200

Art.-Nr.: 88322.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
18	4	*	4	220

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 5 x 60 (mm)
Secondary beam	Main beam		
80	110	22 St. Ø 5 x 60 - 120	100 x 240



HVP Connectors for steel or concrete connections
Heavy-duty

Equally sturdy and simple HVP connection to concrete or steel up to about 307 kN. An anchor plate with concrete anchors ensures that the forces are applied properly into the concrete element. The secondary beam connection is realised with a normal HVP connector part.

Art.-Nr.: 88420.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
25	4	*	4	200

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 8 x 160 (mm)
Secondary beam	Main beam		
120	150	8 St. Ø 8 x 80 - 240	140 x 220

Art.-Nr.: 88430.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
25	4	*	4	300

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 8 x 160 (mm)
Secondary beam	Main beam		
120	150	12 St. Ø 8 x 80 - 240	140 x 320

Remark

Characteristic load-bearing capacity of timber part: see timber-timber connections.

The load capacity of the concrete part (anchor and concrete) must be verified separately.

Product information

Standard HVP connectors for steel or concrete connection are automatically delivered with uplift protection (2 screws and flat steel for uplift protection included).

Art.-Nr.: 88440.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
25	4	*	4	400

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 8 x 160 (mm)
Secondary beam	Main beam		
120	150	16 St. Ø 8 x 80 - 240	140 x 420

Art.-Nr.: 88450.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
25	6	*	4	500

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 8 x 160 (mm)
Secondary beam	Main beam		
120	150	20 St. Ø 8 x 80 - 240	140 x 520

Art.-Nr.: 88460.3000

Dimensions:

Total thickness (mm)	Number of anchors Main beam (Concrete)	CE	VPE	Height (mm)
25	6	*	4	600

Width (mm)		Screws Secondary beam (Wood)	Minimum wood dimensions with screws Ø 8 x 160 (mm)
Secondary beam	Main beam		
120	150	24 St. Ø 8 x 80 - 240	140 x 620

SVP Connectors

Anodized stair nosing connectors

Connectors with multiple applications for staircase construction. Elegant visual design and high load-carrying capacities provide a clean and functional connecting option for the precise and fast assembly of wooden steps. A countersunk head screw DIN 7991 M5 x 25 mm is included in the scope of delivery.

Art.-Nr.: 88630.0000

Dimensions:

Height (mm)	Width (mm)	Depth (mm)
30	40	26

Rated value (kN)	Boreholes (mm)
Ca. 3,4	8 x Ø 4,7

Art.-Nr.: 88630.0180

Dimensions:

Height (mm)	Width (mm)	Depth (mm)
30	180	26

Rated value (kN)	Boreholes (mm)
ca. 11,5	20 x Ø 4,7

cross pass failure has to be verified. Design case „short" for stairs and stair landings.

Screws

Art.-Nr.	Description	Page
99211.4550	Countersunk screws Ø 4,5 x 50 mm	218

Wall connectors

Looking at two points at the same time - whether when hanging a door or installing wall elements - is always a challenge. The unique geometry of the Pitzl wall connector „WVP 88070.0000“ allows you to install your wall elements even easier and faster.

Thanks to the extra-long threading path, the various fastening points no longer have to be positioned at the same time, but can be positioned conveniently one after the other.
Material S355 galvanized.

Art.-Nr.: 88070.0000

Dimensions:

Base plate with mandrel (mm)	Boreholes base plate (mm)	Anchor plate mandrel holder (mm)	Borehole anchor plate (mm)
65 x 109 x 2,5	4 x Ø 6,5	65 x 55 x 2,5	4 x Ø 6,5

Total thickness (mm)	Characteristic values Shear in insertion direction (kN)
18	16,2

Characteristic values shear perpendicular to the insertion direction (kN)	Characteristic values tension perpendicular to the insertion direction (kN)
9,9	7,9

Screws

Art.-Nr.	Description	Page
99210.6060	Washer-head screws Ø 6 x 60 mm	222

CLT Connectors

The Connectors for force transmission in all directions on all panel levels. Thanks to the flexible application options, connections such as wall-wall, ceiling-ceiling, wall-ceiling and also corner connections can be implemented. Maximum safety for planners, structural engineers and fabricators is guaranteed by an ETA. Versatile in use with a top price-performance ratio.

Art.-Nr.: 88800.1050

Dimensions:

Threaded rod	Length (mm)	Clamping length (mm)
M16	375 variabel	300

Jaw radius (mm)	Jaw height (mm)
40	50

Blind hole Ø	(mm)	Longitudinal channel for threaded rod (mm)
80		20

Art.-Nr.	Article
88801.0024	Combination ratchet wrench 24

Product note

Depending on the direction of the threaded rod to the direction of the grain of the CLT layer, design load-bearing capacities of up to 50.2 kN can be achieved.

With standard installation (direction of force 45° to the grain direction), up to 38 kN can be achieved.

1. direction of force 0° parallel to the grain, load-bearing capacity connector material threaded rod
2. force direction 45° to the fiber, design case „short“ kmod = 0.9
3. calculation and installation according to ETA-15/0187

Important: If possible, we recommend that you widen the hole for the CLT jaws into a slotted hole. This makes it easier for you to remove the ratchet ring wrench.

1. illustration above: force direction 90°

2. illustration below: Direction of force 45° to the fiber

SPP Connectors

Post-purlin connectors

You need stabile and reliable connections that you can process as well as re-stress in a quick and precise way.
The Pitzl SPP connectors ensure a perfect hold.
SPP post-purlin connectors - the ideal solution for tensile connections or wood connections with combined load types, such as post-purlin connections. SPP is a retensionable wood connection that can be loosened and removed without problems. According to the ETA, a straight screw connection is permitted even in cross-grained wood. This makes it possible to increase the tensile load-carrying capacity by increasing the effective thread length at the wood screw. Dimensioning details can be found in the Pitzl Design Manual at www.pitzl-connectors.com.

Art.-Nr.: 88710.0000

Dimensions:

Countersunk hole Ø 12 mm	Material	CE	Plate (mm)
4	Galvanized steel	*	Ø 90 x 10

Tube (mm)	Internal thread	max. characteristic tensile load capacity (kN)
-	M 10	16,3

Column-purlin connectors related to C24	
Washer (mm)	Screws (mm)
Ø 58 x 4	10 x 120

Art.-Nr.: 88712.0000

Dimensions:

Countersunk hole Ø 12 mm	Material	CE	Plate (mm)
4	Galvanized steel	*	Ø 100 x 6

Tube (mm)	Internal thread	max. characteristic tensile load capacity (kN)
Ø 42,4 x 70	M 12	16,3

Column-purlin connectors related to C24	
Washer (mm)	Screws (mm)
Ø 58 x 4	10 x 120

Advantages

- Easy and precisely fitting process
- Problem-free disassembly
- Can be re-stressed

Art.-Nr.: 88716.0000

Dimensions:

Countersunk hole Ø 12 mm	Material	CE	Plate (mm)
4	Galvanized steel	*	Ø 100 x 6

Tube (mm)	Internal thread	max. characteristic tensile load capacity (kN)
Ø 42,4 x 70	M 16	21,9

Column-purlin connectors related to C24	
Washer (mm)	Screws (mm)
Ø 68 x 4	10 x 120

Art.-Nr.: 88715.0000

Dimensions:

Plate (mm)	Countersunk hole Ø 10,5 mm	Pin (mm)	CE
Ø 80 x 8	4	Ø 24 x 20	*

Minimum timber dimension (mm)	Material	Internal thread
90 x 90	Anodized aluminium	M16

Column-purlin connectors related to C24		
Washer (mm)	Screws (mm)	max. characteristic tensile load capacity (kN)
Ø 68 x 4	10 x 160	21,9
Ø 68 x 4	10 x 280	31,5
Ø 100 x 4	10 x 280	52,9
Ø 100 x 4	10 x 280 + 10 x 120 Transverse pressure reinforcement	62,5

Metal fastening not included in the delivery contents. The load carrying capacity can be increased by using longer full-threaded screws or rather change the dimensions of the washers (see Table on the next site)
*for further static values please see our design manual or the ETA 10/0413

Washers

Art.-Nr.	Ø mm	Center bore
99906.0068	68 x 6	18 mm
99908.0100 Galvanized	100 x 8	16,5 mm

Screws

Art.-Nr.	Description	Page
99211.1012	Countersunk screws Ø 10 x 120 mm	219
99211.1016	Countersunk screws Ø 10 x 160 mm	219
99211.1028	Countersunk screws Ø 10 x 280 mm	219

ISO-CONNECT

The connector for additional connections on thermally insulated timber facades.

The ISO-CONNECT screw connection concept offers connection solutions on thermally insulated façades of timber houses by combining tension and compression screws. Areas of application include canopies, balconies or the fastening of French balconies. ISO-CONNECT can be combined with the tried-and-tested HVP connector system, expanding the range of possible applications. Direct connection of rafters to the façade is possible. The connection concept also offers the option of connecting a purlin directly to the ISO-CONNECT using threaded bolts.

The ISO-CONNECT can be mounted on solid timber, laminated timber or cross-laminated timber.

Art.-Nr.: 83100.0xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M20
Connection HVP 88210.3000	90 x 100 x 15	-	4	-

Boreholes

- 6 Boreholes Ø 9 mm
- 6 Boreholes Ø 9 mm, 45°
- 4 Threaded holes Ø 12 mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 6 x 8 mm		Inclined screws and side screws 6 x Ø 8 mm		Design load capacities kmod = 0,9; e = 18 mm			
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)	$F_{1,Rd}$ (kN)	$F_{3,Rd}$ (kN)	$F_{4,Rd}$ (kN)	$F_{5/6,Rd}$ (kN)
83100.0060	60	160	75	220	100	13,0	22,4	22,4	3,9
83100.0120	120	240	95	320	100	14,6	28,4	28,4	3,9
83100.0180	180	300	95	400	100	14,6	28,4	26,1	3,9
83100.0220	220	340	95	400	54	7,8	28,4	19,0	2,1

Product note

The ISO-CONNECT connection plates may only be used with the wood construction screws supplied.

The contact pressure of the connection plate can be read from the deformation of the bonded rubber mat (5 mm thick). This also ensures a reliable sealing effect, as three-sided adhesion of the adhesive and sealant is avoided.

Scope of delivery: Connection plate with glued-on rubber mat and matching screws for your insulation

The values apply when using carbon screws and the following structure:
15 mm ISO-CONNECT board, 5 mm rubber mat, 5 mm plaster, insulation
The thread length of the horizontal partially threaded screw may protrude a maximum of 5 mm from the wood.

Art.-Nr.: 83200.0xxx

Dimensions:

Description	Size Ø x H (mm)	Threaded hole M8	M12	M20
Connection French balcony	Ø 80 x 15	4	1	-

Boreholes

- 2 Boreholes Ø 9 mm
- 2 Boreholes Ø 9mm, 45°
- 1 Threaded hole Ø 12 mm
- 4 Threaded holes Ø 8 mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 2 x 8 mm Nominal length (mm)	Horizontal screw 2 x 8 mm Eff. thread length wood (mm)	Inclined screws and side screws 2 x Ø 8 mm Nominal length (mm)	Inclined screws and side screws 2 x Ø 8 mm Eff. thread length wood (mm)	Design load capacities kmod = 0,9 $F_{1,Rd}$ (kN)	$F_{3,Rd}$ (kN)	$F_{4,Rd}$ (kN)
83200.0060	60	160	75	220	100	7,3	7,8	7,8
83200.0120	120	240	95	320	100	7,3	9,8	9,8
83200.0180	180	300	95	400	100	7,3	9,8	9,8
83200.0220	220	340	95	400	54	3,9	9,8	6,3

Art.-Nr.: 83300.0xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole M8	M12	M20
Universal Connection Uni 2	120 x 155 x 15	4	-	1

Boreholes

- 8 Boreholes Ø 9 mm
- 6 Boreholes Ø 9mm, 45°
- 1 Threaded hole Ø 20 mm
- 4 Threaded holes Ø 8 mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 8 x 8 mm Nominal length (mm)	Horizontal screw 8 x 8 mm Eff. thread length wood (mm)	Inclined screws and side screws 6 x Ø 8 mm Nominal length (mm)	Inclined screws and side screws 6 x Ø 8 mm Eff. thread length wood (mm)	Design load capacities kmod = 0,9 e = 40 mm $F_{1,Rd}$ (kN)	e = 60 mm $F_{1,Rd}$ (kN)	e = 80 mm $F_{1,Rd}$ (kN)	e = 100 mm $F_{1,Rd}$ (kN)	kein Einfluss d. Exzentrität $F_{3,Rd}$ (kN)	$F_{4,Rd}$ (kN)	$F_{5/6Rd}$ (kN)
83300.0060	60	160	75	220	100	14,59	14,59	12,82	11,22	29,91	29,91	3,91
83300.0120	120	240	95	320	100	14,62	14,62	14,62	14,21	37,88	37,88	3,92
83300.0180	180	300	95	400	100	14,62	14,62	14,62	13,04	37,88	34,78	3,92
83300.0220	220	340	95	400	54	7,82	7,82	7,82	7,82	37,88	25,35	2,10

Assembly

1. Positioning of the connector with a glued rubber mat
2. Fix the connector plate first with the screws perpendicular (horizontal) to the facade until low deformations of the rubber mat are reached.
3. Screw in the inclined screws until they reach the connection plate.
4. Installation of the balcony railing, the HVP connector or the counter plate of the universal connector.
5. The gap between ISO-CONNECT and the facade should be filled with silicone (acetic-free). You can find an illustration on page 145.

ISO-CONNECT

Art.-Nr.: 83400.0xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M20
Awning connection V1	80 x 220 x 15	-	2	-

Boreholes

- 4 Boreholes Ø 9 mm
- 2 Boreholes Ø 9 mm, 45°
- 2 Threaded holes Ø 12 mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 8 mm		4 x Inclined screws and side screws 2 x Ø 8 mm		Permissible shear load (kN)	Permissible tilting moment (kN)	Rated load top tension bolts (kN)
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)			
83400.0060	60	200	100	180	62	0,75	1,62	11,5
83400.0120	120	240	100	260	57	0,75	1,62	11,5
83400.0180	180	300	100	340	72	0,75	1,22	8,5
83400.0220	220	340	100	400	56	0,75	0,92	6,2

Product note

The ISO-CONNECT connection plates may only be used with the wood construction screws supplied.

The contact pressure of the connection plate can be read from the deformation of the bonded rubber mat (5 mm thick). This also ensures a reliable sealing effect, as three-sided adhesion of the adhesive and sealant is avoided.

Scope of delivery: Connection plate with glued-on rubber mat and matching screws for your insulation

The values apply when using carbon screws and the following structure:
15 mm ISO-CONNECT board, 5 mm rubber mat, 5 mm plaster, insulation
The thread length of the horizontal partially threaded screw may protrude a maximum of 5 mm from the wood.

Art.-Nr.: 83400.1xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M20
Awning connection V2	80 x 220 x 15	-	2	-

Boreholes

- 3 Boreholes Ø 9 mm
- 3 Boreholes Ø 9mm, 45°
- 2 Threaded holes Ø 12 mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 8 mm		4 x Inclined screws and side screws 2 x Ø 8 mm		Permissible shear load (kN)	Permissible tilting moment (kN)	Rated load top tension bolts (kN)
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)			
83400.1060	60	200	100	180	62	0,75	0,92	6,2
83400.1120	120	240	100	260	57	0,75	0,92	6,2
83400.1180	180	300	100	340	72	0,75	0,92	6,2
83400.1220	220	340	100	400	56	0,75	0,92	6,2

Art.-Nr.: 83500.0xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M20
Awning connection Uni 2	220 x 220 x 15	-	-	-

Boreholes

- 4 Boreholes Ø 9 mm
- 2 Boreholes Ø 9mm, 45°
- Threaded hole on request

Art-Nr.	Insulation thickness (mm)	Horizontal screw 8 mm		4 x Inclined screws and side screws 2 x Ø 8 mm		Permissible shear load (kN)	Permissible tilting moment (kN)	Rated load top tension bolts (kN)
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)			
83500.0060	60	200	100	180	62	0,75	1,62	11,5
83500.0120	120	240	100	260	57	0,75	1,62	11,5
83500.0180	180	300	100	340	72	0,75	1,22	8,5
83500.0220	220	340	100	400	56	0,75	0,92	6,2

ISO-CONNECT

Art.-Nr.: 83500.1xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M20
Awning connection Uni 2	220 x 220 x 15	-	3	-

Boreholes

- 3 Boreholes Ø 9 mm
- 3 Boreholes Ø 9 mm, 45°
- Threaded hole on request

Art-Nr.	Insulation thickness (mm)	Horizontal screw 8 mm		3 x Inclined screws and side screws 3 x Ø 8 mm		Permissible shear load (kN)	Permissible tilting moment (kN)	Rated load top tension bolts (kN)
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)			
83500.1060	60	200	100	180	62	0,75	0,92	6,2
83500.1120	120	240	100	260	57	0,75	0,92	6,2
83500.1180	180	300	100	340	72	0,75	0,92	6,2
83500.1220	220	340	100	400	56	0,75	0,92	6,2

Product note

The ISO-CONNECT connection plates may only be used with the wood construction screws supplied.

The contact pressure of the connection plate can be read from the deformation of the bonded rubber mat (5 mm thick). This also ensures a reliable sealing effect, as three-sided adhesion of the adhesive and sealant is avoided.

Scope of delivery: Connection plate with glued-on rubber mat and matching screws for your insulation

The values apply when using carbon screws and the following structure:
15 mm ISO-CONNECT board, 5 mm rubber mat, 5 mm plaster, insulation
The thread length of the horizontal partially threaded screw may protrude a maximum of 5 mm from the wood.

Art.-Nr.: 83600.0xxx

Dimensions:

Description	Size W x h x d (mm)	Threaded hole		
		M8	M12	M16
Universal Connection Uni 1	90 x 100 x 15	-	4	1

Boreholes

- 6 Boreholes Ø 9 mm
- 4 Boreholes Ø 9mm, 45°
- 4 Threaded holes Ø 12 mm
- 1 Threaded hole Ø16mm

Art-Nr.	Insulation thickness (mm)	Horizontal screw 6 x 8 mm		Inclined screws and side screws 4 x Ø 8 mm		Design load capacities kmod = 0,9					
		Nominal length (mm)	Eff. thread length wood (mm)	Nominal length (mm)	Eff. thread length wood (mm)	e = 40 mm	e = 60 mm	e = 80 mm	e = 100 mm		
						$F_{1,Rd}$ (kN)	$F_{1,Rd}$ (kN)	$F_{1,Rd}$ (kN)	$F_{1,Rd}$ (kN)	$F_{3,Rd}$ (kN)	$F_{4,Rd}$ (kN)
83600.0060	60	180	75	220	100	11,46	8,76	7,09	5,96	29,79	29,79
83600.0120	120	240	95	320	100	14,17	10,84	8,77	7,37	36,85	36,85
83600.0180	180	300	95	400	100	14,17	10,84	8,77	7,37	36,85	36,85
83600.0220	220	340	95	400	54	8,60	8,60	8,60	7,37	36,85	36,85

Assembly

1. Positioning of the connector with a glued rubber mat
2. Fix the connector plate first with the screws perpendicular (horizontal) to the facade until low deformations of the rubber mat are reached.
3. Screw in the inclined screws until they reach the connection plate.
4. Installation of the balcony railing, the HVP connector or the counter plate of the universal connector.
5. The gap between ISO-CONNECT and the facade should be filled with silicone (acetic-free). You can find an illustration on page 145.

RIGID

Connection system for rigid frame corners

With the Pitzl - RIGID system connector allows to build bending resistance connections between timber columns and beams (frame corners). The combination of the well - known HVP connector with an tension plate on the upper side replaces braces for example in carports. Larger versions may are also able to brace hall constructions in combination. With the Pitzl - RIGID, the designer has the possibility to work with joints with a very high rotational spring stiffness.

Art.-Nr.: 88318.4000

Dimensions:

Dimensions w x h x d		Minimum timber dimensions w x h	
HVP (mm)	Tension plate (mm)	Support (mm)	Bolt (mm)
80 x 180 x 12	80 x 215 x 15	14 x 14	14 x 24

Characteristic values		
N_{Rk} (kN)	V_{Rk} (kN)	$M_{y,Rk}$ (kNm)
31,4	72,6	6,5

Art.-Nr.: 88430.4000

Dimensions:

Dimensions w x h x d		Minimum timber dimensions w x h	
HVP (mm)	Tension plate (mm)	Support (mm)	Bolt (mm)
120 x 300 x 20	120 x 250 x 15	16 x 16	16 x 36

Characteristic values		
N_{Rk} (kN)	V_{Rk} (kN)	$M_{y,Rk}$ (kNm)
48,3	93,2	10,9

Montage

The HVP connector is mounted to the column and girding beam (milled into the column).

During assembling, the columns are mounted and then the girders are hang in with the HVP-connectors.

Afterwards the the tension plate is screwed in with inclined screws. Also in that case the plate can milled in.

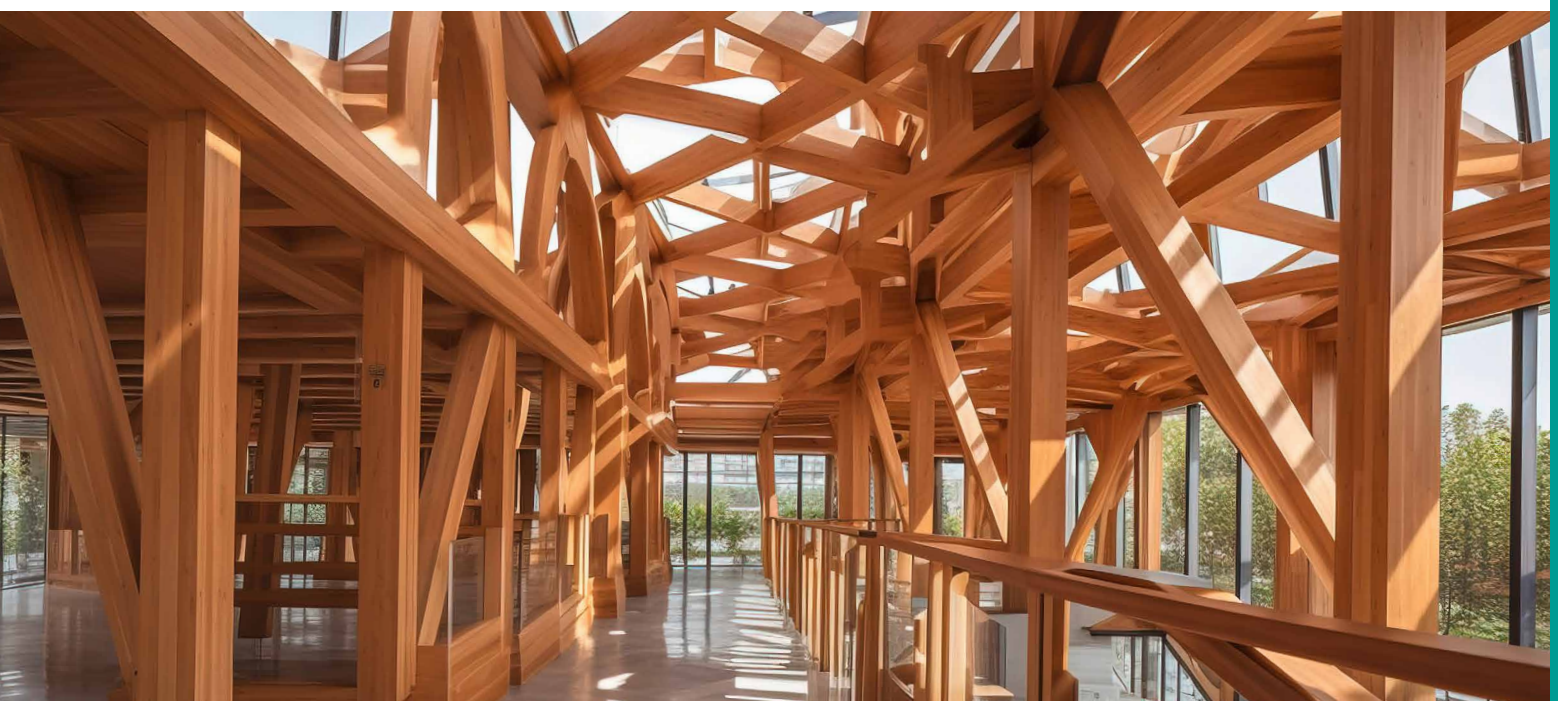
Art.-Nr.: 88555.4000

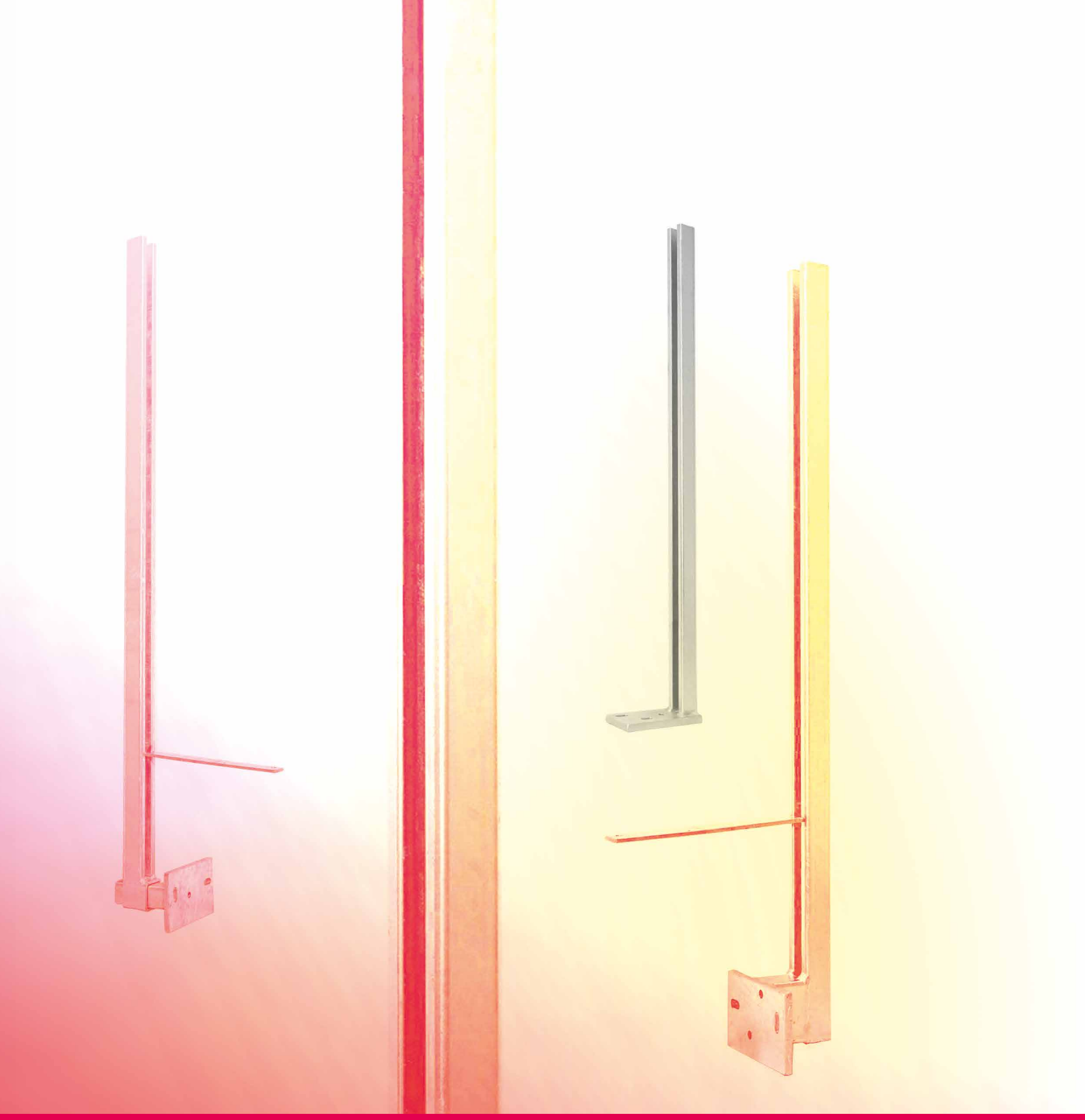
Dimensions:

Dimensions w x h x d		Minimum timber dimensions w x h	
HVP (mm)	Tension plate (mm)	Support (mm)	Bolt (mm)
140 x 550 x 20	120 x 325 x 15	16 x 16	16 x 68

Characteristic values		
N_{Rk} (kN)	V_{Rk} (kN)	$M_{y,Rk}$ (kNm)
59,8	345,9	18,2

The mentioned characteristic values refer to a particular connection situation. Other configurations are possible.
Dimensioning and calculation are being done on request.





Balcony / Fence posts

ETA-10/0413 ETA-15/0187 ETA-21/0750

Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP® max protection

HVP

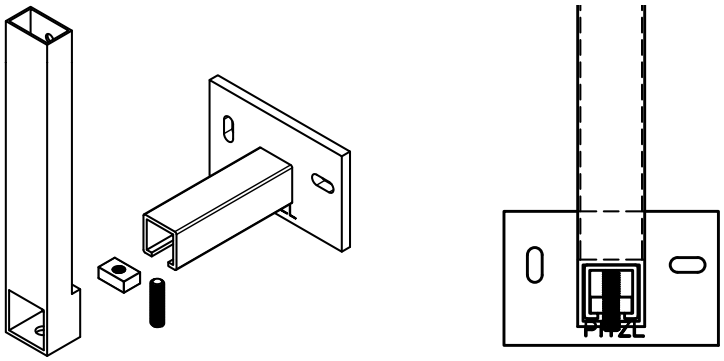
Content

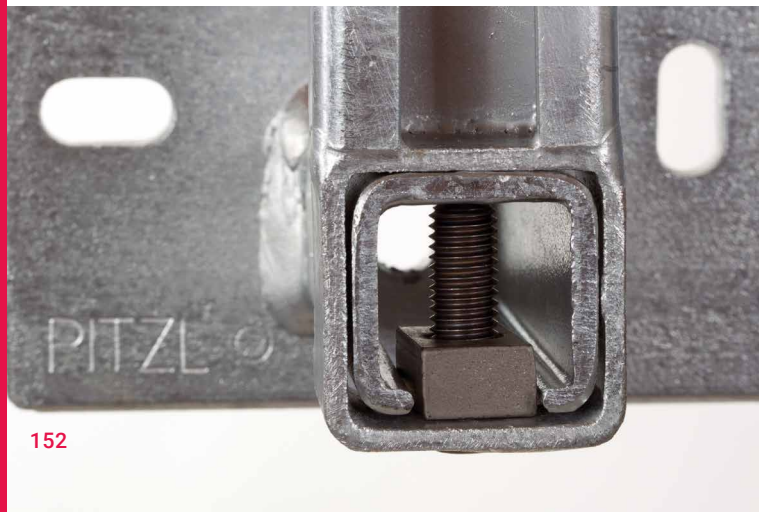
Assembly instructions

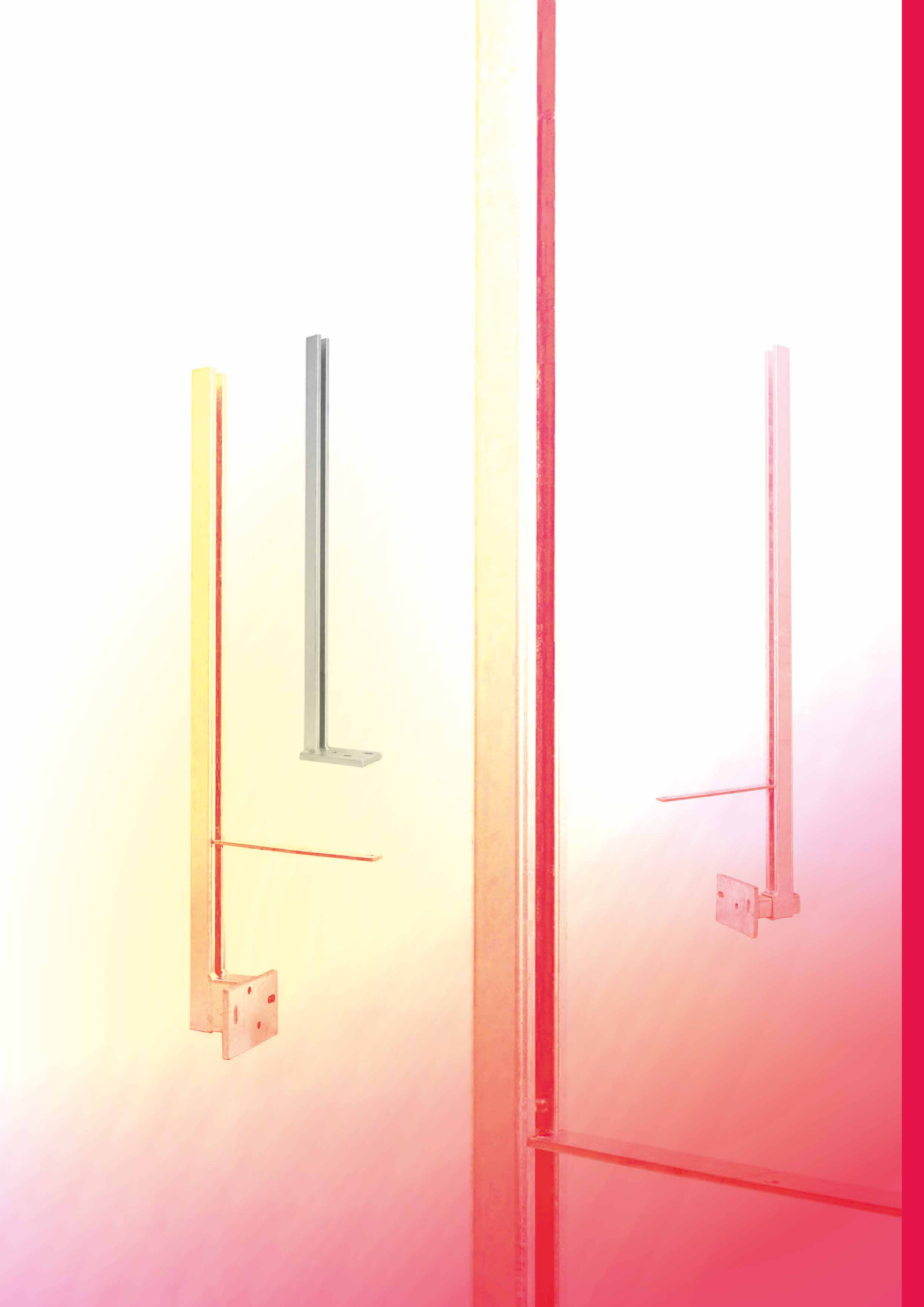
1. Measure required distance from balcony post and balustrade.

2. Cut the C-profilee to the corresponding length, seal the cut if required, for instance by cold zinc-plating.

3. Mounting the base plate to the balustrade: Plug the pressing plate with the stud into the bottom opening of the metal column and slide them together over the mounted C-profile. Using a hexagonal wrench, tighten the adjusting screw at the required distance from the metal column and balustrade from below, through the slot of the C-profilee. Done!







BSP Balcony posts C-profile, hot-dip galvanized CE

Henceforth we also offer our customers a maximum security along balcony constructions.
The development of a special C-profile, produced as usual with a high quality in our own manufacture and prepared for approval by the Institut for Construction and Material sciences of the Universität Innsbruck, timber construction department. The BSP (Balkonsäule Pitzl), another top product of Pitzl wood connectors: For doweling or front-side mounting, with or without bend and for every required hight the BSP always offers a functional, efficient and user-friendly solution. A high-quality hot-dip galvanization provides a perfect optic and the required corrosion protection, also in service class 3. The characteristic maximum power the holm can take is 2,12 kN. A ETA-certification enables an assembly conforming to standards.

For the crossbeam fastening 3 drills are being intended.

Art.-Nr.: 31510.0000

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2

Height C-profile (mm)	CE
1000	*

Art.-Nr.: 31512.0000

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2

Height C-profile (mm)	CE
1200*	*

front-side mounting, incl. holding latch 285 x 50 x 5 mm with 2 bore holes Ø 11 mm

Art.-Nr.: 31510.1060

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2
Height C-profile (mm)	**Fixed cranking (mm)**	**CE**
1000	60	*

Art.-Nr.: 31512.1060

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2
Height C-profile (mm)	**Fixed cranking (mm)**	**CE**
1200*	60	*

front-side mounting, incl. holding latch 285 x 50 x 5 mm with 2 bore holes Ø 11 mm

* Attention: Additional freight charges apply for this item due to the excess length.

Accessoires

Art.-Nr.	Description	Page
31150.0000	Aluminium through-latch	166
31151.0000	Aluminium corner latch	166
31152.0000	Aluminium start latch	167

Art.-Nr.: 31510.0110

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2
Height C-profile (mm)	**Variable Cranking (mm)**	**CE**
1000	30 - 110	*

Art.-Nr.: 31512.0110

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	50 x 40 x 3	2
Height C-profile (mm)	**Variable cranking (mm)**	**CE**
1200*	30 - 110	*

front-side mounting, incl. holding latch 285 x 50 x 5 mm with 2 bore holes Ø 11 mm

Art.-Nr.: 31610.0000

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
180 x 80 x 15	50 x 40 x 3	2

Height C-profile (mm)	CE
1000	*

Art.-Nr.: 31612.0000

Dimensions:

Lower plate (mm)	C-profile (mm)	Slotted hole Ø 11 x 26 mm
180 x 80 x 15	50 x 40 x 3	2

Height C-profile (mm)	CE
1200*	*

doweling mounting

* Attention: Additional freight charges apply for this item due to the excess length.

Accessoires

Art.-Nr.	Description	Page
31150.0000	Aluminium through-latch	166
31151.0000	Aluminium corner latch	166
31152.0000	Aluminium start latch	167

GSP Railing posts T-iron and brackets

T - iron, hot-dip galvanized

Art.-Nr.: 31105.0001

Dimensions:

Lower plate (mm)	Height (mm)	Hole Ø12 mm below	CE
100 x 100 x 10	400	4	*

T-iron (mm)	Hole Ø 6,5 mm	max. characteristic load capacity (kN)* compression / tension
50 x 50 x 6	6	Depending on wood size / 14,14*

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 36905.0000

Dimensions:

Slotted hole Ø 11 x 26 mm	Hole Ø 11 mm	Side
2	2	Left

Base plate (mm)	Strut (mm)
290 x 45 x 8	370 x 45 x 8

Art.-Nr.: 36906.0000

Dimensions:

Slotted hole Ø 11 x 26 mm	Hole Ø 11 mm	Side
2	2	Right

Base plate (mm)	Strut (mm)
290 x 45 x 8	370 x 45 x 8

Art.-Nr.: 36907.0000

Slotted hole Ø 11 x 26 mm	Hole Ø 11 mm	Side
2	2	Left

Base plate (mm)	Strut (mm)
290 x 45 x 8	500 x 45 x 8

Brackets, hot-dip galvanized

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 36908.0000

Dimensions:

Slotted hole Ø 11 x 26 mm	Hole Ø 11 mm	Side
2	2	Right

Base plate (mm)	Strut (mm)
290 x 45 x 8	500 x 45 x 8

Art.-Nr.: 36910.0000

Dimensions:

Slotted hole Ø 11 x 26 mm	Hole Ø 11 mm	Page
2	2	-

Base plate (mm)	Strut (mm)
350 x 380 x 45 x 8	-

GSP Railing posts C-profile, hot-dip galvanised

C-Profile for doweling

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 31180.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
180 x 60 x 10	50 x 30 x 15 x 3
Slotted hole Ø 11 x 26 mm	**Height (mm)**
2	800

Art.-Nr.: 31190.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
180 x 60 x 10	50 x 30 x 15 x 3
Slotted hole Ø 11 x 26 mm	**Height (mm)**
2	900

Art.-Nr.: 31110.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
180 x 60 x 10	50 x 30 x 15 x 3
Slotted hole Ø 11 x 26 mm	**Height (mm)**
2	1000

For front-side mounting, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

C-Profile for doweling

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 31290.0000

Dimensions:

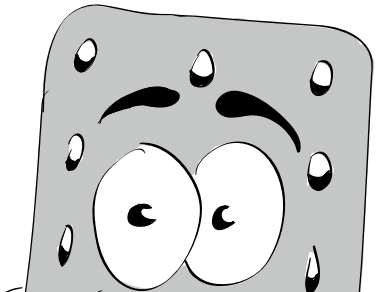
Lower plate (mm)	C-profile (mm)
160 x 100 x 10	50 x 30 x 15 x 3
Slotted hole Ø 11 x 26 mm	**Height (mm)**
2	900

Art.-Nr.: 31210.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
160 x 100 x 10	50 x 30 x 15 x 3
Slotted hole Ø 11 x 26 mm	**Height (mm)**
2	1000

For front-side mounting, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.



Variable balcony posts for fastening timber balconies from the Pitzl system.
Our variable balcony posts, being continuously adjustable, are ideally suited for different clearances or adverse assembly conditions (e. g. at eaves gutters).

Art.-Nr.: 31210.0110

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

C-profile (mm)	Cranking (mm)
50 x 30 x 15 x 3	30 - 110

Art.-Nr.: 31210.0200

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

C-profile (mm)	Cranking (mm)
50 x 30 x 15 x 3	30 - 200

For front-side mounting, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

Art.-Nr.: 31107.0000

Dimensions:

Lower plate (mm)	Height (mm)	Hole below (12 mm)
100 x 100 x 8	800	4

C-profile (mm)	Ground clearance (mm)
50 x 30 x 15 x 3	140

2 parts, for insulation bridge.
Including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

Art.-Nr.: 31170.0000

Dimensions:

Height (mm)	U-Profile (mm)
300	22 x 42 x 22 x 2

Upper plate (mm)
135 x 30 x 5

Art.-Nr.: 31170.0080

Dimensions:

Height (mm)	U-Profile (mm)
300	22 x 42 x 22 x 2

Upper plate (mm)
80 x 80 x 5

Art.-Nr.: 31170.0100

Dimensions:

Height (mm)	U-Profile (mm)
300	22 x 42 x 22 x 2

Upper plate (mm)
100 x 100 x 5

For handrail fastening, welded with flat iron, ZiNiP coated.

Art.-Nr.: 31171.0000

Dimensions:

Height (mm)	U-Profile (mm)
300	22 x 42 x 22 x 2

Angle plate (mm)
30 x 45 x 160

For handrail fastening, welded with angle plate, ZiNiP coated.

Art.-Nr.: 31172.0000

Dimensions:

Height (mm)	U-Profile (mm)
300	22 x 42 x 22 x 2

Upper plate (mm)
135 x 30 x 5

For handrail fastening, welded with flat iron, ZiNiP coated.

Screw connection for extension piece

Art.-Nr.	Description
31174.0000	ZiNiP coated

Aluminium through-latch

Art.-Nr.	Measurements (mm)	Hole Ø 9,5 mm	Screws
31140.0000	160 x 40 x 5	2	M8 x 20 mm
31150.0000	160 x 40 x 5	2	M8 x 40 mm

Aluminium corner latch

Art.-Nr.	Measurements (mm)	Hole Ø 9,5 mm	Screws
31141.0000	110 x 75 x 40 x 5	2	M8 x 20 mm
31151.0000	110 x 75 x 40 x 5	2	M8 x 40 mm

Art.-Nr.	Measurements (mm)	Hole Ø 9,5 mm	Screws
31142.0000	125 x 40 x 5	2	M8 x 20 mm
31152.0000	125 x 40 x 5	2	M8 x 40 mm

Aluminium flower box holder

Height-adjustable through the clamping elements.

Art.-Nr.	Measurements mm	Special features
31175.1000	110 x 216 x 150 x 40 x 8	For attaching to the C-profile

GSP Railing posts

With square tube 30 x 30 x 2 mm, hot-dip galvanized

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 31100.0000

Dimensions:

Lower plate (mm)	Height (mm)
100 x 100 x 6	1000
Tube (mm)	**Hole below Ø 12 mm**
30 x 30 x 2	4

dowel mounting, including a plastic cap.

Art.-Nr.: 31101.0000

Dimensions:

Lower plate (mm)	Height (mm)
160 x 100 x 10	1000
Tube (mm)	**Slotted hole Ø 11 x 26 mm**
30 x 30 x 2	2

front-side mounting, including a plastic cap.

Art.-Nr.: 31102.0000

Dimensions:

Lower plate (mm)	Height (mm)
180 x 60 x 10	1000
Tube (mm)	**Slotted hole Ø 11 x 26 mm**
30 x 30 x 2	2

dowel mounting, including a plastic cap.

Variable balcony posts for fastening timber balconies from the Pitzl system. Our variable balcony posts, being continuously adjustable, are ideally suited for different clearances or adverse assembly conditions

Art.-Nr.: 31101.0110

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

Tube (mm)	Cranking (mm)
30 x 30 x 2	30 - 110

Art.-Nr.: 31101.0200

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

Tube (mm)	Cranking (mm)
30 x 30 x 2	30 - 200

front-side mounting, including a plastic cap.

Assembly instruction

- Measure required distance from balcony post and balustrade.
- Cut the C-profile to the corresponding length, seal the cut if required, for instance by cold zinc-plating
- Mounting the base plate to the balustrade: Plug the pressing plate with the stud into the bottom opening of the metal column and slide them together over the mounted C-profile.
- Using a hexagonal wrench, tighten the adjusting screw at the required distance from the metal column and balustrade from below, through the slot of the C-profile. Done!

GSP Railing posts accessories

Extension piece for square tube 30 x 30 x 2 mm

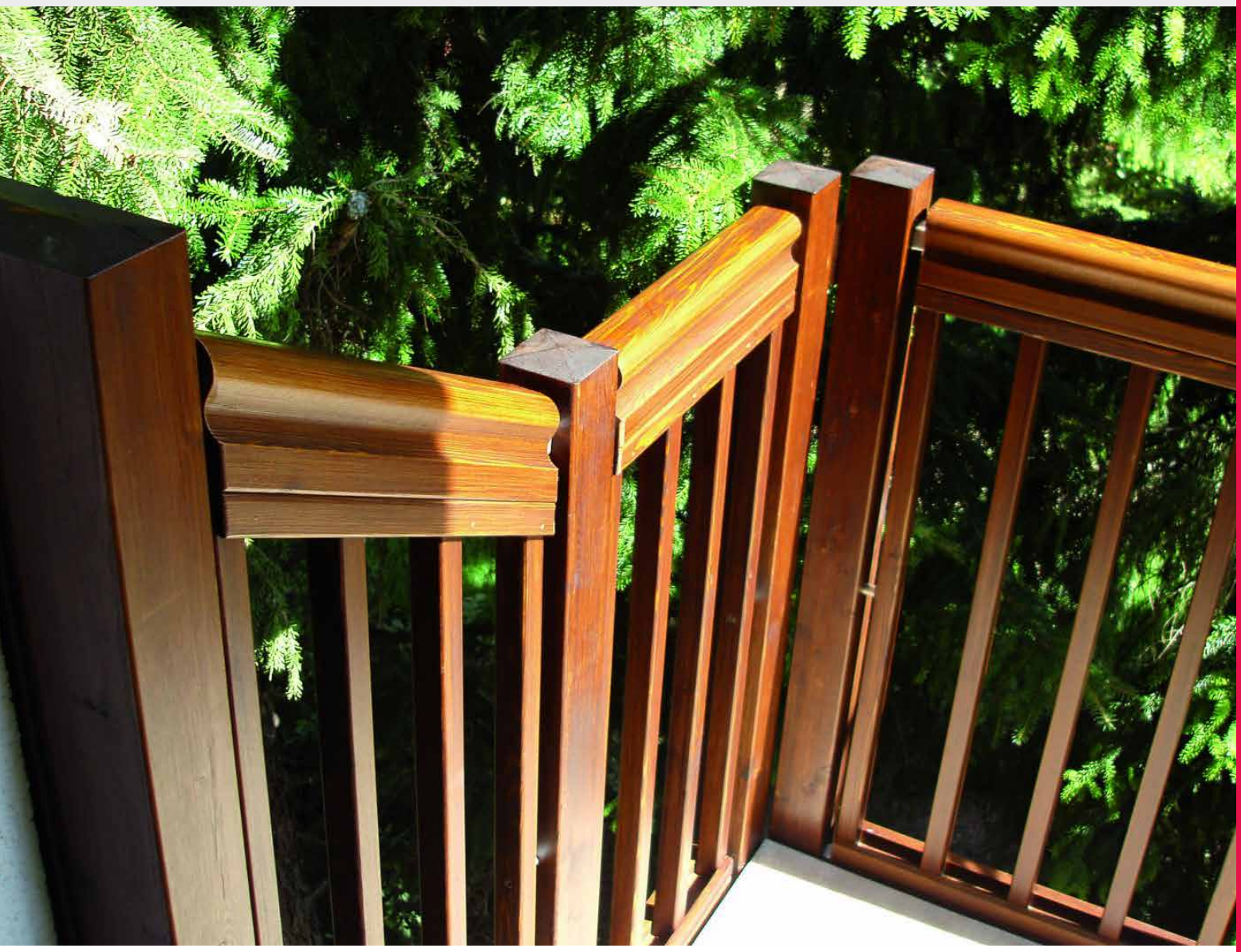
For handrail fastening, welded with flat iron, ZiNiP coated.

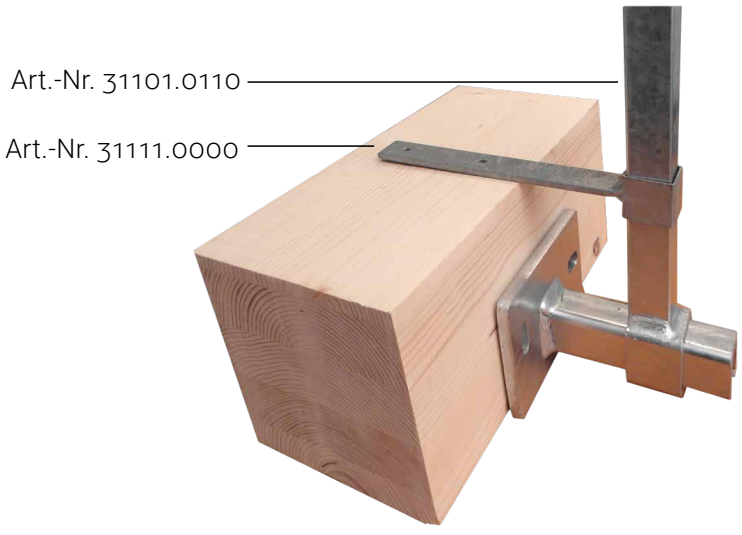
Art.-Nr.	Upper plate mm	Height mm	Tube mm
32525.0000	135 x 30 x 5	300	25 x 25 x 2

Retaining bracket for tube 30 x 30 x 2 mm

ZiNiP coated.

Art.-Nr.	Plate (mm)	Tube (mm)	Hole Ø 6,5 mm
31111.0000	200 x 30 x 5	35 x 35 x 1,5 x 30	2




Art.-Nr. 31101.0110
Art.-Nr. 31111.0000

GSP Railing posts
with rectangular tube 50 x 30 x 2 mm, hot-dip galvanized

We would like to point out that the product range „GSP railing post“ is not suitable for work with static requirements.

Art.-Nr.: 31153.0000

Dimensions:

Lower plate (mm)	Height (mm)
180 x 60 x 10	1000
Tube (mm)	**Slotted hole below Ø 11 x 26 mm**
50 x 30 x 2	2

dowel mounting, including a plastic cap

Art.-Nr.: 31253.0000

Dimensions:

Lower plate (mm)	Height (mm)
160 x 100 x 10	1000
Tube (mm)	**Slotted hole Ø 11 x 26 mm**
50 x 30 x 2	2

front-side mounting, including a plastic cap

Variable balcony posts for fastening timber balconies from the Pitzl system.
Our variable balcony posts, being continuously adjustable, are ideally suited for different clearances or adverse assembly conditions (e. g. at eaves gutters).

Art.-Nr.: 31253.0110

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

Tube (mm)	Cranking (mm)
50 x 30 x 2	30 - 110

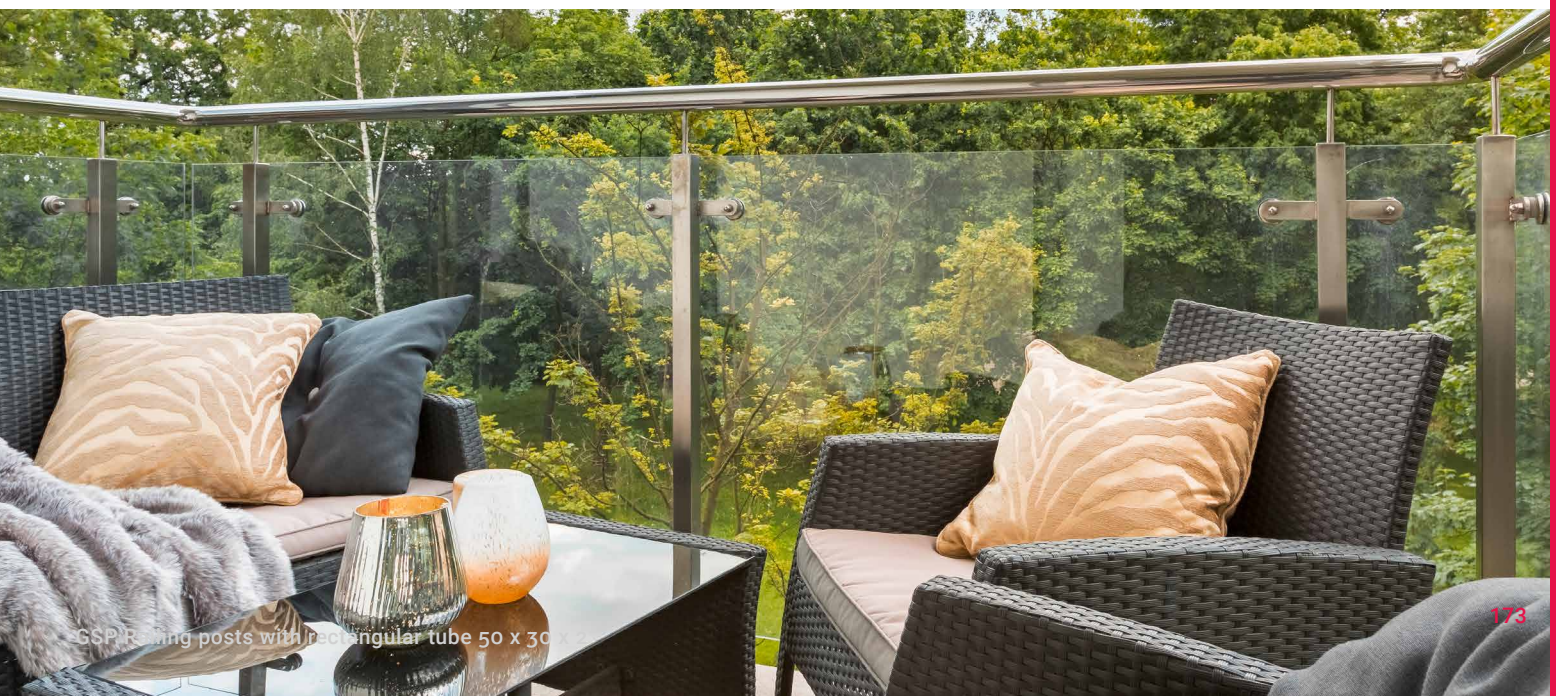
Art.-Nr.: 31253.0200

Dimensions:

Lower plate (mm)	Height (mm)	Slotted hole Ø 11 x 26 mm
160 x 100 x 10	1000	2

Tube (mm)	Cranking (mm)
50 x 30 x 2	30 - 200

front-side mounting, including a plastic cap



GSP Railing posts with rectangular tube 50 x 30 x 2

GSP Railing posts accessoires

Extension piece for tube 50 x 30 x 2 mm

For handrail fastening, welded with flat iron, ZiNiP coated.

Art.-Nr.	Upper plate mm	Height mm	Tube mm
34525.0000	135 x 30 x 5	300	45 x 25 x 2

Product note

Additionally for the balcony posts with rectangular tube C-profile extension pieces (item no. 31170.0000 - 31172.0000) can be used when combined with the threaded joint (item no. 31174.0000)

GSP Railing posts / **BSP** balcony posts accessoires

Flower box holder from aluminium 40 x 8

Art.-Nr.	Measurements mm
31175.0000	110 x 216 x 150

Flower box holder ZiNiP coated

Art.-Nr.	Measurements mm	Hole Ø 7 mm
39101.0000	145 x 170 x 145 x 30 x 5	6
39102.0000	145 x 170 x 145 x 60 x 5	12
39112.0000	145 x 230 x 145 x 30 x 6	6
39113.0000	145 x 230 x 145 x 60 x 6	12

French balcony, hot-dip galvanised

Art.-Nr.	**Measurements** mm
35900.0000	1000 x 1000

We also manufacture individual special solutions, suitable for your application area. Further information can be found from page 234!

SLP Columns for privacy and noise barrier

For doweling, hot-dip galvanised

Privacy screens made of sandwich panels or wooden elements are becoming increasingly popular. Whether for doweling, setting in concrete or mounting on screw-in foundations, this new product from the innovation forge Pitzl offers the optimum solution for every requirement. In order to guarantee you absolute safety, the privacy columns have been thoroughly tested and approved for this purpose by the Institute for Construction and Materials Science at the University of Innsbruck, Timber Construction Department. Mount the privacy screen columns, slide the panels into the C-profile, which is matched to the standard panel thickness, and the installation is complete.

Art.-Nr.: 38516.2000

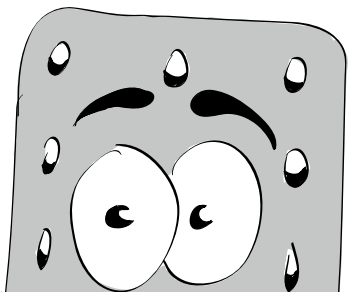
Dimensions:

Mounting plate (mm)	Holes (Ø13 mm)
240 x 210 x 15	4
Length C-profile 80 x 50 x 3 (mm)	**Special feature**
2000*	Start and end posts

Art.-Nr.: 38516.2001

Dimensions:

Mounting plate (mm)	Holes (Ø13 mm)
240 x 240 x 15	4
Length C-profile 80 x 50 x 3 (mm)	**Special feature**
2000*	Center post



Art.-Nr.: 38516.2090

Dimensions:

Mounting plate (mm)	Slotted hole 11 x 60 mm
140 x 189 x 10	4
Length C-profile 80 x 50 x 3 (mm)	**Special feature**
2000*	Start and end posts

Art.-Nr.: 38516.2091

Dimensions:

Mounting plate (mm)	Slotted hole 11 x 60 mm
140 x 189 x 10	4
Length C-profile 80 x 50 x 3 (mm)	**Special feature**
2000*	Center post

The concrete foundation or rather the connection to it must be verified separately.
* Attention: Additional freight charges apply for this item due to the excess length.

To set in concrete, hot-dip galvanised

Art.-Nr.: 38514.2000

Dimensions:

Length C-profile 80 x 50 x 3 (mm)	Special feature
2500*	Start and end posts

Art.-Nr.: 38514.2001

Dimensions:

Length C-profile 80 x 50 x 3 (mm)	Special feature
2500*	Center post

The concrete foundation or rather the connection to it must be verified separately.
* Attention: Additional freight charges apply for this item due to the excess length.

Product note

Optionally also available powder-coated for an additional charge.

ZSP Fence posts C-profile, hot-dip galvanized

- Fence posts from stabile hot-dip galvanised C-profile for a quick assembly of fences.
- Clip latches are removable afterwards and can be continuously adjusted on the fence height.
- The product range includes fence posts for doweling, embedding and laterally inclinable versions.

Art.-Nr.: 32080.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	800

Art.-Nr.: 32100.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	1000

Art.-Nr.: 32117.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	1170

For embedding in concrete, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

Art.-Nr.: 32150.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	1500*

For embedding in concrete, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

Art.-Nr.: 33080.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
160 x 60 x 5	50 x 30 x 15 x 3
Hole below (Ø 12 mm)	**Height (mm)**
4	800

Art.-Nr.: 33100.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
160 x 60 x 5	50 x 30 x 15 x 3
Hole below (Ø 12 mm)	**Height (mm)**
4	1000

For embedding in concrete, including a plastic cap and two aluminium clip latches 160 x 40 x 5 mm.

Art.-Nr.: 34080.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	800

Art.-Nr.: 34100.0000

Dimensions:

C-profile (mm)	Height (mm)
50 x 30 x 15 x 3	1000

For embedding, laterally inclinable up to 18°.
Including a plastic cap and two clip latches from aluminium 160 x 40 x 5 mm.

* Attention: Additional freight charges apply for this item due to the excess length.

Product note

Please find the additional clip latches on page 166.

Fence posts, laterally inclinable

Art.-Nr.: 35080.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
160 x 60 x 5	50 x 30 x 15 x 3
Hole below (Ø 12 mm)	**Height (mm)**
4	800

Art.-Nr.: 35100.0000

Dimensions:

Lower plate (mm)	C-profile (mm)
160 x 60 x 5	50 x 30 x 15 x 3
Hole below (Ø 12 mm)	**Height (mm)**
4	1000

For embedding, laterally inclinable up to 18°.
Including a plastic cap and two clip latches from aluminium 160 x 40 x 5 mm.

Product note

Optionally available powder-coated for an additional charge.

Cone

provided with a high-quality ZiNiP coating.

Art.-Nr.	Diameter (mm)	Measurements (mm)
31312.0000	Ø 12	M 12 x 100
31313.0000	Ø 12	M 12 x 120
31314.0000	Ø 12	M 12 x 180
31322.0000	Ø 13	M 12 x 100
31323.0000	Ø 13	M 12 x 120
31324.0000	Ø 13	M 12 x 180
31316.0000	Ø 16	M 16 x 120
31317.0000	Ø 16	M 16 x 180

Hinge

provided with a high-quality ZiNiP coating.

Art.-Nr.	Diameter (mm)	Measurements (mm)
31412.0000	Ø 12	M 12 x 100
31413.0000	Ø 12	M 12 x 120
31414.0000	Ø 12	M 12 x 180
31422.0000	Ø 13	M 12 x 100
31423.0000	Ø 13	M 12 x 120
31424.0000	Ø 13	M 12 x 180
31432.0000	Ø 14	M 12 x 100
31433.0000	Ø 14	M 10 x 120
31434.0000	Ø 14	M 10 x 180
31416.0000	Ø 17	M 16 x 120
31417.0000	Ø 17	M 16 x 180

Gate post, hot-dip galvanised

Art.-Nr.	Measurements (mm)	Height (mm)
36117.0000	60 x 60 x 3	1170
36150.0000	60 x 60 x 3	1500*
37117.0000	80 x 80 x 5	1170
37150.0000	80 x 80 x 5	1500*

For embedding in concrete, including a plastic protection cap. (customised dimensions at request).

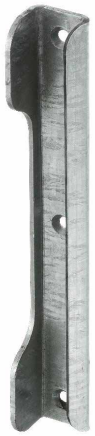
Connecting latches from aluminium

For fastening a wooden bar to the gate posts.

Art.-Nr.	Measurements mm	Hole Ø 9,5 mm	Hole Ø 6,5 mm
37200.0000	110 x 60 x 40 x 5	1	2

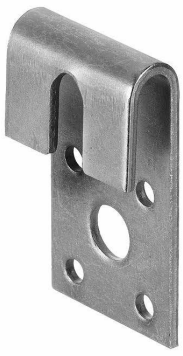
Door hinge, hot-dip galavanised

for tube frames 60 x 30 mm.



Art.-Nr.	Measurements mm	Hole Ø 6,5 mm versenkt
36070.0000	250 x 35 x 35	3

Fence suspension hooks, ZiNiP



36700.0000

36701.0000

36702.0000

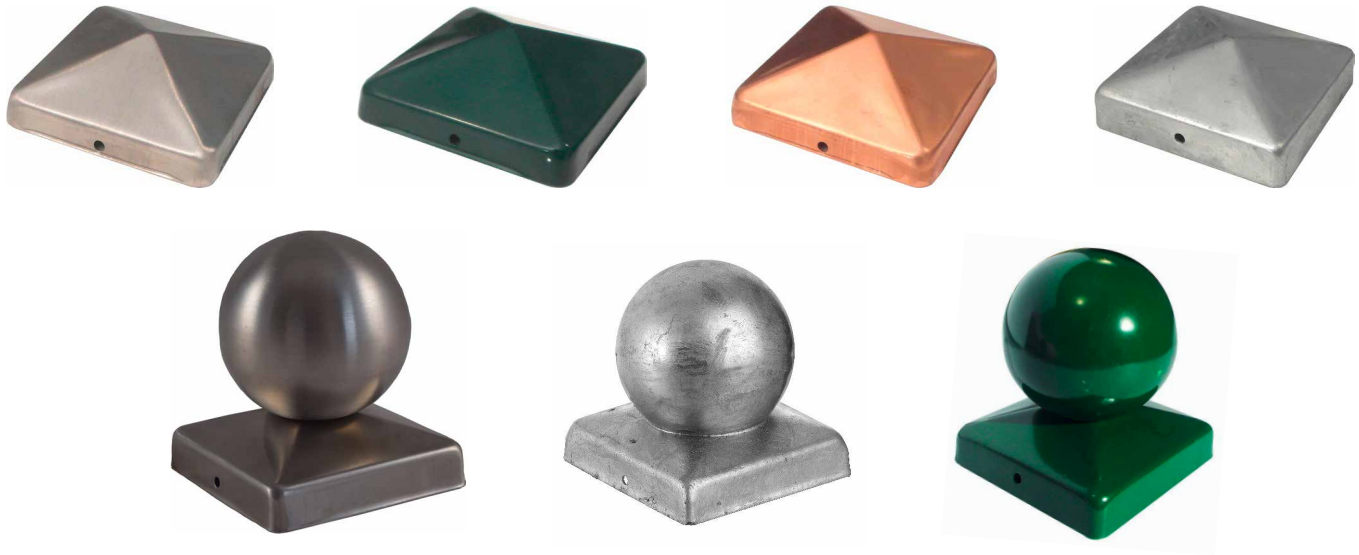
36710.0000

Art.-Nr.	Measurements mm	Hole Ø 5 mm	Hole Ø 11 mm	Hanging slot 9 x 18 mm	Hole Ø 8,5 mm
36700.0000	60 x 35 x 2,5	4	1	1	
36701.0000	60 x 27 x 35 x 2,5	4	1	1	
36702.0000	83 x 35 x 2,5	4	1	1	
36710.0000	44 x 44 x 36 x 3				4

* Attention: Additional freight charges apply for this item due to the excess length.

Post caps

Decoration and protection for squared timber posts.



Art.-Nr.	Measurements (mm)	Version	Color / Material
39200.0701	71 x 71	flat	Nirosta
39200.0703	71 x 71	flat	Green
39200.0711	71 x 71	with sphere	Nirosta
39200.0712	71 x 71	with sphere	Hot-dip galvanized
39200.0901	91 x 91	flat	Nirosta
39200.0903	91 x 91	flat	Green
39200.0904	91 x 91	flat	Copper
39200.0902	91 x 91	flat	Hot-dip galvanized
39200.0911	91 x 91	with sphere	Nirosta
39200.0913	91 x 91	with sphere	Green
39200.0912	91 x 91	with sphere	Hot-dip galvanized
39200.1001	101 x 101	flat	Nirosta
39200.1003	101 x 101	flat	Green
39200.1004	101 x 101	flat	Copper
39200.1002	101 x 101	flat	Hot-dip galvanized
39200.1011	101 x 101	with sphere	Nirosta
39200.1012	101 x 101	with sphere	Hot-dip galvanized
39200.1201	121 x 121	flat	Nirosta
39200.1202	121 x 121	flat	Hot-dip galvanized
39200.1211	121 x 121	with sphere	Nirosta

Suspension clips, ZiNiP coated

For fastening fence panels.

Art.-Nr.	Measurements mm	Countersunk hole Ø 6,5 m
31176.0000	100 x 50 x 5	4
31177.0000	100 x 55 x 55 x 50	4

Screw latch, ZiNiP coated

For fastening fence panels.

Art.-Nr.	Measurements mm	Thread mm	Hole Ø 11 mm
31178.0000	120 x 30 x 5	Ø 8 x 75	2

Garage door, hot-dip galvanised

Complete with lock, without lock cylinder, bolt 8 mm. (customised dimensions at request).

Art.-Nr.	Measurements (mm)	Tube (mm)	Matching cone-Ø (mm)
36060.0000	1000 x 600	60 x 30 x 2	12
36080.0000	1000 x 800	60 x 30 x 2	12

Tools

ETA-10/0413 ETA-15/0187 ETA-21/0750

Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP max protection

schwerlast HVP heavy duty

Content

Lifting clamp PowerClamp
PowerClamp

The lifting clamp - the latest innovation in timber construction.
Enables you easily to raise wooden beams and massive edge glued panels through a simple and quick fastening of the lifting clamps. Depending on the demand the D40/90 is appropriate for a load carrying capacity up to 1500 kg, the D25/70 for a load carrying capacity up to 500 kg. Drill, apply, lift!

Art.-Nr.: 55870.1000

Dimensions:

Description	Max. load capacity
D25/70	up to 500 kg
Clamp weight	Hole Ø (mm)
1,00 kg	26

Art.-Nr.: 55890.1000

Dimensions:

Description	Max. load capacity
D40/90	up to 1500 kg
Clamp weight	Hole Ø (mm)
1,80 kg	40

Accessoires

Art.-Nr.	Description	Page
55865.0000	Drill „Spur Bit“ Ø 40 mm	202
55875.0025	Drill „Auger Bit“ Ø 26 mm	201
55875.2025	Drill „Auger Bit“ Ø 26 mm inkl. drill stopper	201
55895.0000	Adapter ring for ceiling elements 80 mm on visibility	

Application

The lifting clamp is very simple to use. A simple 40 mm or 26 mm hole is sufficient for the lifting clamp. Insert the clamp and you can lift the component effortlessly. The adapter ring can be used for 80 mm ceiling elements, to avoid a visible hole on the underside.

Scope of delivery

- **2x or 4x PowerClamp (D40/90 or D25/70)**
- **1x Drill (40 mm or 26 mm)**
- **1x High quality transport box**

The low-maintenance lifting clamp is the ideal companion for every construction project. Despite its extremely robust despite its low weight.

Sets

PowerClamp 2er-Set

Art.-Nr.	Description
55870.0000	2x D25/70 incl. Drill, Drill Stopper and transport case
55890.0000	D40/90 incl. Drill and transport case

PowerClamp 4er-Set

Art.-Nr.	Description
55870.4000	4x D25/70 incl. Drill, Drill stopper and transport case
55890.4000	4x D40/90 incl. Drill and transport case

Advantages of PowerClamp

- Major time savings
- No other lifting gear needed
- No damage of wood surface
- No soiling
- RFID - FID-Transponder for digital recording and theft protection (D40/90)

Beam puller and accessoires

Beam puller with turn-adapter

Fix, tighten, done! - Convenient work

Lay the turn-adaptor on the object and screw it on. Differently arranged boreholes allow a smoothly fastening. The mounted to the adaptor butt strap serves for the fastening in grooves or to edges.

Art.-Nr.: 55850.0000

Dimensions:

Span (mm)	Boreholes (Ø8 mm)
560 - 720	16
Max. load capacity (kN)	
20	

Beam puller with hooks

Art.-Nr.: 55854.0000

Dimensions:

Span (mm)	Boreholes (Ø8 mm)
460 - 600	2
Max. load capacity (kN)	
20	

Accessoires

Art.-Nr.	Description
55850.1000	Hook
55850.2000	Bracing strip tensioner 1-8 mm
55850.2100	Adapter ring for bracing strip tensioner item-no. 55850.2000

Advantages of the turn-adapters

- Can be fixed everywhere
- Slight damage of timber
- Easy handling
- Fastening in every angles

Advantages of the hook

- Through the additional bore, fastening by one screw is possible.

Both timber puller ratchets allow a quick switch between the different tool attachments.

Product information

Both beam pullers are delivered in our high quality transport box.

Wall support and accessoires

Wall support

3 parts, galvanised, fine adjustment via left/right thread, tube 45 x 45 mm

Art.-Nr.: 55650.0000

Dimensions:

Thread	Adjustment range (mm)	Weight (kg)
M20	1600 - 4200	12,5

Wall support with variable spacer

3-part galvanized with variable spacer Length 1300 - 1970 mm

Art.-Nr.: 55650.0100

Dimensions:

Thread	Adjustment range (mm)	Weight (kg)
M20	1600 - 4200	18,2

Accessoires

Art.-Nr.	Description
55650.1000	Distance piece from tube 40 x 40 x 2 x 1265 mm for alignment of the wall elements.
55650.1100	Adjustable with ratchet; variable distance piece length 1300 - 1970 mm
55650.2000	Lever for easier adjustment of the wall support

Lifting frame for wall support

For an easy and safe transport of wall supports

Art.-Nr.	Dimensions (mm)	Load capacity (kg)
55651.0000	1170 x 533 x 520	max. 500

Drills and countersink tools
Twist drills

The Pitzl tool finder - find the right tool for every request quickly and easily.

Art.-Nr.: 50937.2400

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
24	125	220

Ø Drill chuck adapter (mm)	Max. revolutions per minute
16	2400

Suitable for:	Accessoires:
Post bases with threaded mandrel M 24	Shell-type milling cutter Art-Nr. 50937.0000

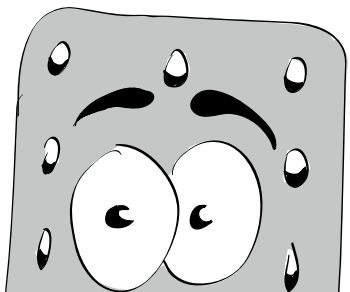
Art.-Nr.: 50937.3000

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
30	125	220

Ø Drill chuck adapter (mm)	Max. revolutions per minute
16	2200

Suitable for:	Accessoires:
Post bases with threaded mandrel M 30	Shell-type milling cutter Art-Nr. 50937.0000



Art.-Nr.: 50938.0000

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
42,5	140	225

Ø Drill chuck adapter (mm)	Max. revolutions per minute
16	1800

Suitable for:	Accessoires:
Post bases with threaded tube Ø 44 mm	Shell-type milling cutter
Post bases with smooth pipe Ø 42,4 mm	Art-Nr. 50939.0000
SSP-connector Art-Nr. 88712.0000	
SPP-connector Art-Nr. 88716.0000	

Art.-Nr.: 50938.8500

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
42,5	85	165

Ø Drill chuck adapter (mm)	Max. revolutions per minute
16	1800

Suitable for:	Accessoires:
Post bases with threaded tube Ø 44 mm	Shell-type milling cutter
Post bases with smooth pipe Ø 42,4 mm	Art-Nr. 50939.0000
SSP-connector Art-Nr. 88712.0000	
SSP-connector Art-Nr. 88716.0000	

Auger bit

The Pitzl tool finder - find the right tool for every request quickly and easily.

Art.-Nr.: 50936.1801

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
18	385	460

Ø Drill chuck adapter (mm)	Max. revolutions per minute
12	1000

Suitable for:

SPP 80 connector Art-Nr. 88715.0000

Art.-Nr.: 50936.2400

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
24	110	200

Ø Drill chuck adapter (mm)	Max. revolutions per minute
12	1000

Suitable for:

SPP 80 connector Art-Nr. 88715.0000

Art.-Nr.: 55875.0025

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
26	165	235

Ø Drill chuck adapter (mm)	Special feature
12	-

Suitable for:

PowerClamp II D25/70 Art-Nr. 55870.1000

Art.-Nr.: 55875.2025

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
26	165	235

Ø Drill chuck adapter (mm)	Special feature
12	**incl. Drill Stopper**

Suitable for:

PowerClamp II D25/70 Art-Nr. 55870.1000

Spur Bit

The Pitzl tool finder - find the right tool for every request quickly and easily.

Art.-Nr.: 50935.8000

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
80	100	160

Ø Drill chuck adapter (mm)	Max. revolutions per minute
13	-

Suitable for:

SPP 80 connector Art-Nr. 88715.0000

CLT-connectors Art-Nr. 88800.1050

Art.-Nr.: 55865.0000

Dimensions:

Diameter (mm)	Working length (mm)	Overall length (mm)
40	90	150

Ø Drill chuck adapter (mm)	Max. revolutions per minute
13	-

Suitable for:

PowerClamp II D40/90 Art-Nr. 55890.1000

Art.-Nr.: 50939.0013

Dimensions:

Diameter (mm)	Overall length (mm)	Ø Drill chuck adapter (mm)
13	113	13

Suitable for:	Suitable for Shell-type milling cutter:
SPP 80 connector Art-Nr. 88715.0000	Art-Nr. 50937.8000

Art.-Nr.: 50939.0014

Dimensions:

Diameter (mm)	Overall length (mm)	Ø Drill chuck adapter (mm)
16	118	13

Suitable for:	Suitable for Shell-type milling cutter:
SPP 80 connector Art-Nr. 88715.0000	Art-Nr. 50937.0000

Information

For the implementation of various drilling works we recommend our drill machine 59420.0000, an oblong hole drilling machine or other drilling devices.

Shell-type milling cutter

The Pitzl tool finder - find the right tool for every request quickly and easily.

Art.-Nr.: 50937.0000

Dimensions:

Diameter (mm)	Ø Drill chuck adapter (mm)	Max. revolutions per minute
103	16	1000

Suitable for:	Suitable for center drill:
Twist drills Art-Nr. 50937.2400	Art-Nr. 50939.1014
Twist drills Art-Nr. 50937.3000	
Center drill Art-Nr. 50939.0014	

Art.-Nr.: 50937.8000

Dimensions:

Diameter (mm)	Ø Drill chuck adapter (mm)	Max. revolutions per minute
80	13	1000

Suitable for:	Suitable for center drill:
Auger bit Art-Nr. 50936.1801	Art-Nr. 50393.0013

Art.-Nr.: 50939.0000

Dimensions:

Diameter (mm)	Ø Drill chuck adapter (mm)	Max. revolutions per minute
103	-	1000

Suitable for:
Twist drills Art-Nr. 50938.0000
Twist drills Art-Nr. 50939.8500

Drilling device and accessories

Drilling device

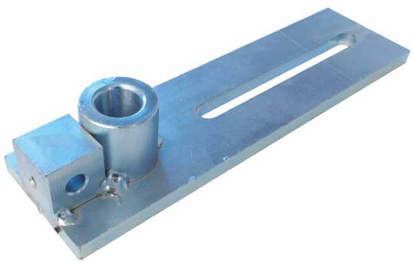
Carry out drilling and countersinking work in end grain easily and precisely. The infinitely variable setting allows you to work on wood dimensions between 120 x 120 mm and 240 x 240 mm. Robust pliers and the depth stop guarantee consistent drilling and countersinking results.

Art.-Nr.	Ø Drill holder mm
59420.0000	57

Drill jig for precise guidance of the drill bit

Art.-Nr.	Ø mm
50020.2000	20
50020.2400	24
50020.3000	30
50020.4200	42,5

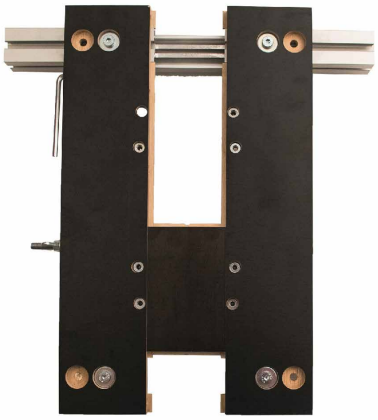
Support for drill jig



Art.-Nr.	Ø mm
50018.2000	20
50018.2400	24
50018.3000	30
50018.4200	42,5

Milling and assembly templates

Milling and assembly templates Milling and assembly templates for connector sizes 25 - 140 mm of HVP series. The flexible and easily adjustable templates enable a quick adjustment of connector width. Following correct adjustment, milling and assembly works can begin without any further adaptation being required.



Art.-Nr.: 58000.0000

Dimensions:

Connector width (mm)
25 - 80

Suitable for connector sizes Art-Nr.

88004.0000 - 88322.0000

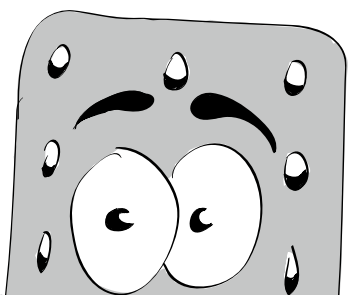
Art.-Nr.: 58400.0000

Dimensions:

Connector width (mm)
100 - 140

Suitable for connector sizes Art-Nr.

88420.1000 - 88560.1000



For milling out the upper plates of our post carriers.

Art.-Nr.: 58000.1080

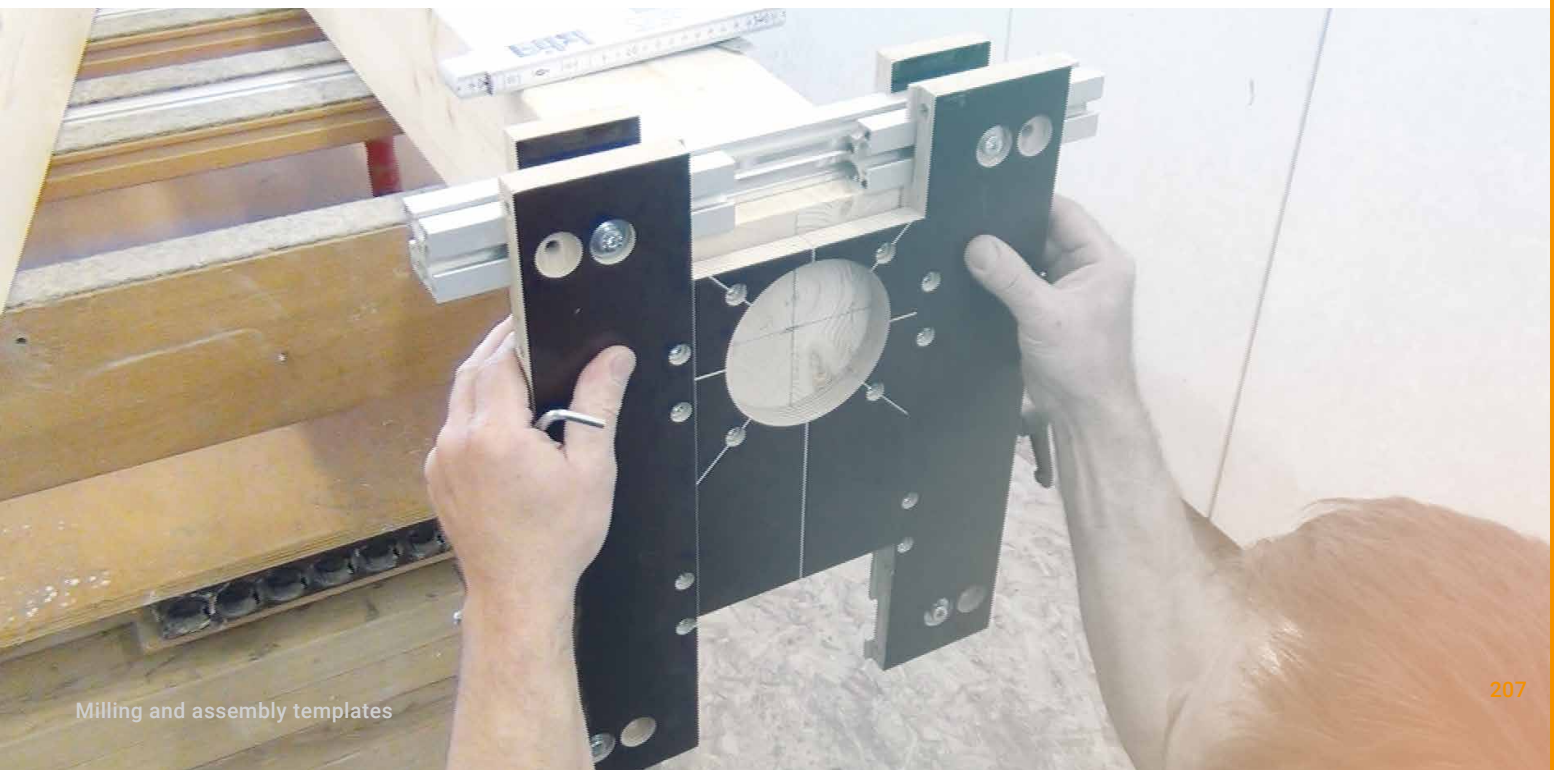
Dimensions:

Diameter (mm)
80

Art.-Nr.: 58000.1100

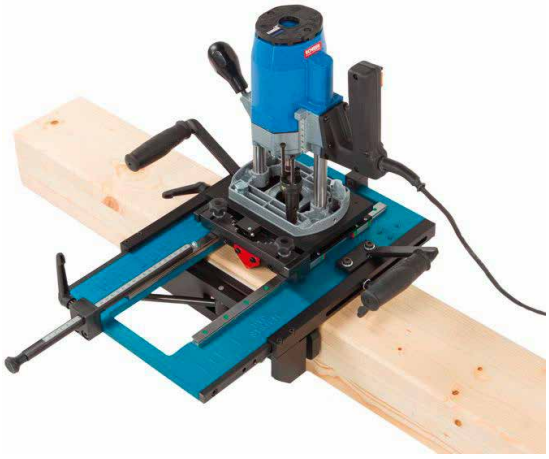
Dimensions:

Diameter (mm)
100



Milling unit and accessories
Milling unit

Easy to use, precise and fast.
The compact design of the milling machine allows it to be used in all main beam connections for all HVP sizes with a thickness of 12 mm. It guarantees precise routing of the connectors thanks to coordinated components. Linear feeds enable absolutely clean and precise routing. The eccentric clamping device enables quick and precise fixing. The ergonomic design enables fast and comfortable working and saves valuable time.



Art.-Nr.	Consisting of:
58399.0000	Milling template Art-Nr. 58390.0000
	Scheer hand overhead router Art-Nr. 58391.0000
	Milling bit Ø 20 x 45 mm Art-Nr. 58392.0000

Milling template to mill in our HVP connectors

Art.-Nr.	Suitable for:
58390.0000	HVP-Series 880 - 883

Scheer hand overhead router HM 14

The Scheer hand overhead router HM 14 is suitable for moderately difficult milling works and is ideal for milling metal mount. It is equipped with a universal motor for light flux.

Art.-Nr.	Power	Net weight	Stop	External thread	Speed	Max. lift
58391.0000	1200 Watt	4,7 kg	3 x	M 10	1800	60 mm

Milling bit

Appropriate for milling device Scheer HM 14.

Art.-Nr.	Ø mm	Working length mm	Overall length mm	Material
58392.0000	20	45	75	HSS
58395.1000	20	45	75	HM

Collet holder without collet

Suitable for the Scheer HM 14 milling machine.

Art.-Nr.	Mounting internal thread	Mounting external thread
58396.0000	M10	M16

Collet

Art.-Nr.	Ø mm	Description
58396.0008	8	Suitable for grooving cutter Art.-Nr. 50934.1000
58396.0012	12	Suitable for grooving cutter Art.-Nr. 50934.2000

Prouct information

These combinations are essential for an optimum milling grove. The exact milling texture for the respective connector is obtained. Therefore a quick installation of our connectors without an additional calibration is feasible.

In combination with our milling templates (page 206) you can also mill in the upper parts of our post bases.

Art.-Nr.	Ø mm	Working length mm	Overall length mm	Depth adjusting collar Ø mm	Ball bearing closed mm	suitable for connector widths mm
50934.1000	10	20	52	8	20 x 8 x 5	25, 40
50934.2000	20	20	60	12	30 x 12 x 8	60, 80, 120, 140

Grooving cutter

Assembly jig and Pry bar

Assembly jig

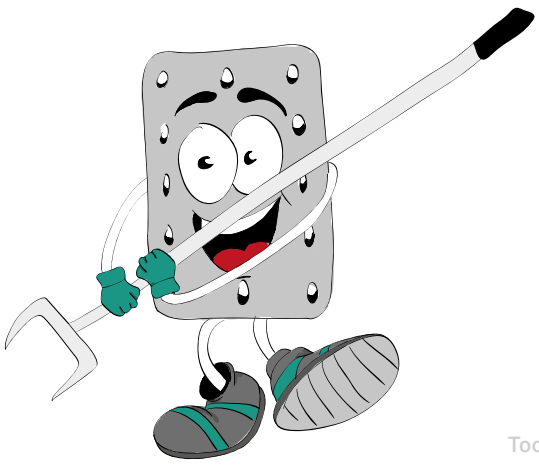
variable for nailed trusses, electrogalvanised

Art.-Nr.	Description
55600.0000	M 16 x 700 - 1200 mm

Pry bar

with rubber handle for removing planks from rafters without straining your back (not for rafter / post connections). Care has to be taken that during the use the pressure is oriented in the roof direction.

Art.-Nr.	Weight	Length	Load capacity
55800.0000	2,54 kg	1 Meter	60 kg at handle height



Useful gadgets
Floor clamp – Board tightener

The board tightener is one of our own inventions and produced by us. It provides an innovative solution even for experienced floor layers. The laying of materials with tongue and groove connections, floorboards and decking etc. can be done quicker and more accurately than by conventional methods.

Art.-Nr.	Span	Material clamping jaws
54801.0001	30 - 120 mm	Rubber

UNIVERSAL – Panel carrier

Characterised by its particularly high load capacity (welded steel frame) despite its extremely low weight, and wide range of panel material types that it can be used for. The clamping force automatically adapts to the weight of the element that is being carried.

Art.-Nr.	Span	Load capacity
54803.0000	0 - 65 mm	ca. 120 kg
54803.0060	60 - 120 mm	ca. 120 kg

Parallel scribe

A practical tool for precise marking out and transferring unevenness in walls and cut-outs for cover plates, skirting boards, worktops, covers, etc. Made of hard-wearing plastic and non-slip clamping wheel for locking.

Art.-Nr.	Version
54804.0000	Parallel scriber with compass point

Parallel scriber with compass point

The sharpening head is a user friendly, handy, diamond coated tool, with which you can sharpen your E-Cut blades yourself, saving money. It can be used with every type of handheld drilling machine

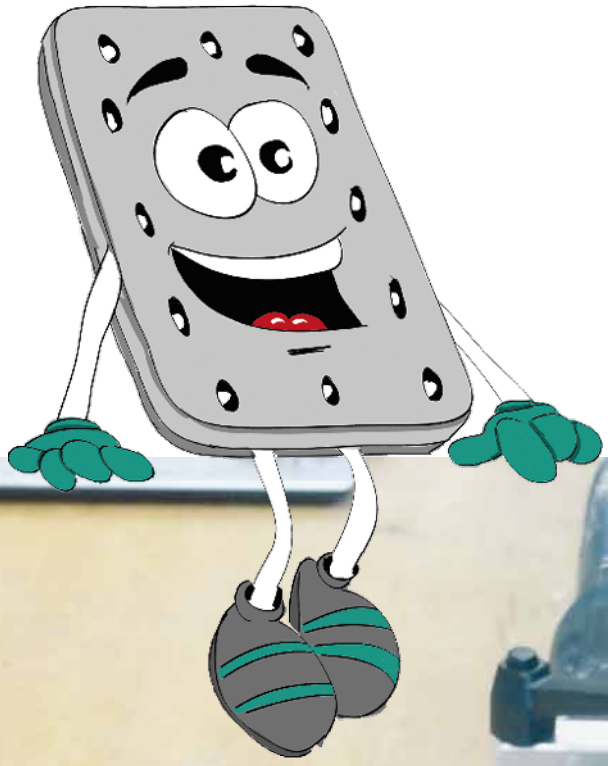
Art.-Nr.	Sharpening head adapter	Service life
54802.0000	10 mm	ca. 400 - 600 saw blades

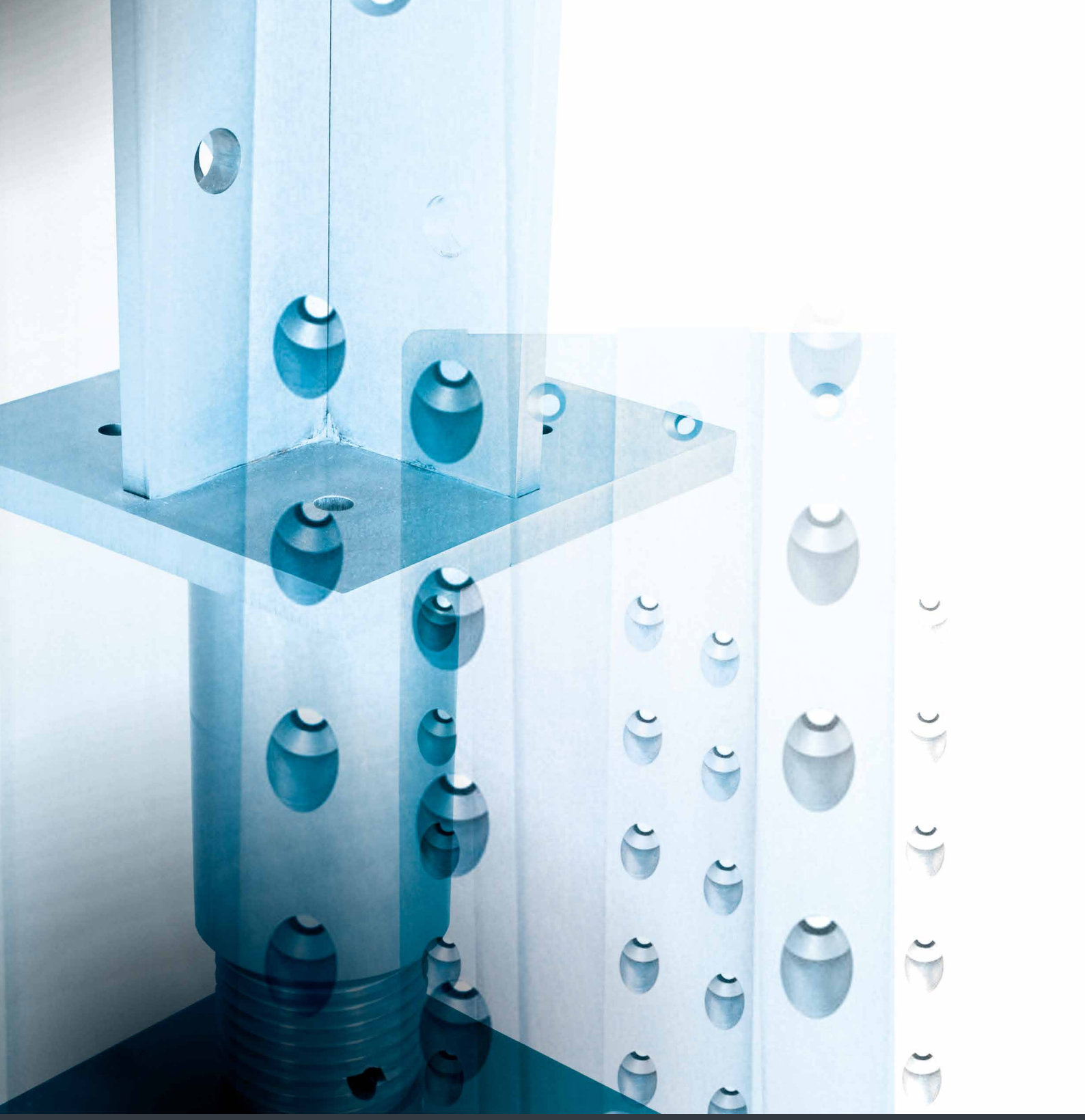
Drill adapter for the sharpening head

Art.-Nr.	Holder
54802.0001	Ø 42 mm

Before

After





Fasteners

ETA-10/0413 ETA-15/0187 ETA-21/0750

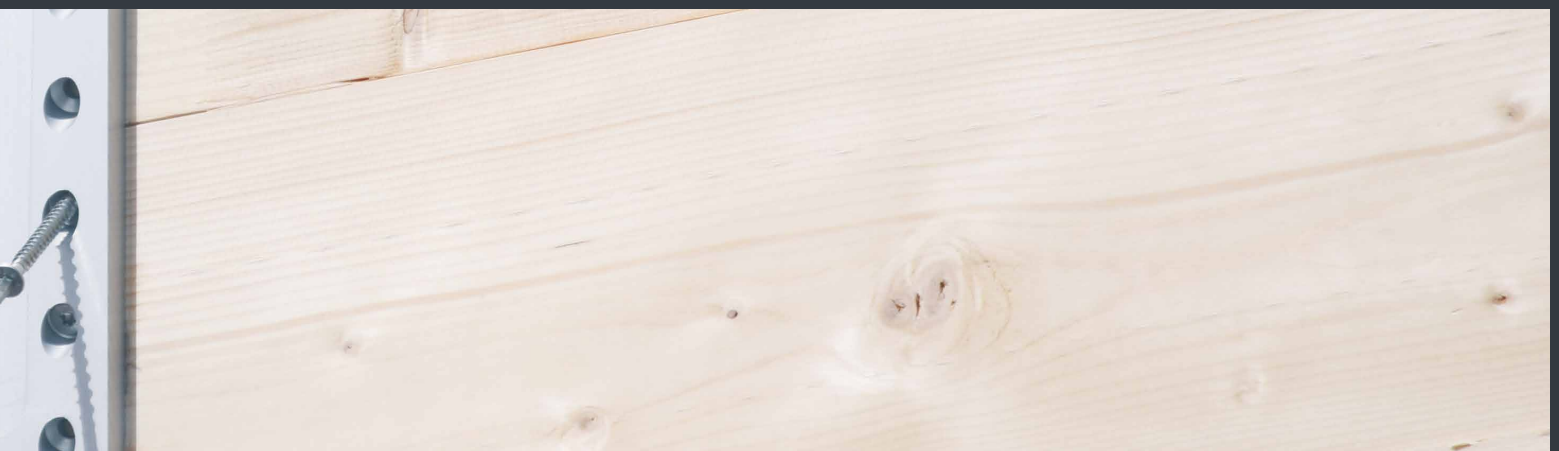
Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP max protection

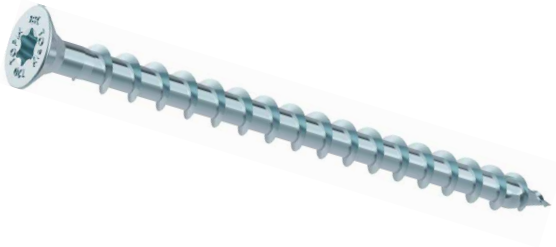
HVP heavy duty

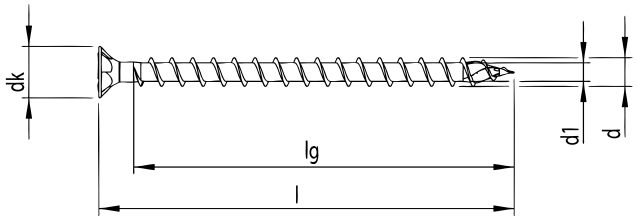
Content



Countersunk screws

for our HVP connectors 880 - 883 and stairs tread connectors.



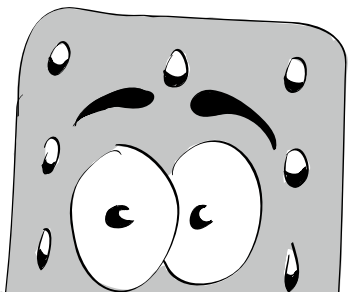


Art.-Nr.	d	l	lg	dk	Drive
99211.4550	4,5	50	45	8,9	T-Drive
99211.4560	4,5	60	54	8,9	T-Drive
99211.4580	4,5	80	74	8,9	T-Drive
99211.5060	5	60	54	9,6	T-Drive
99211.5080	5	80	74	9,6	T-Drive
99211.5100	5	100	94	9,6	T-Drive
99211.5120	5	120	114	9,6	T-Drive

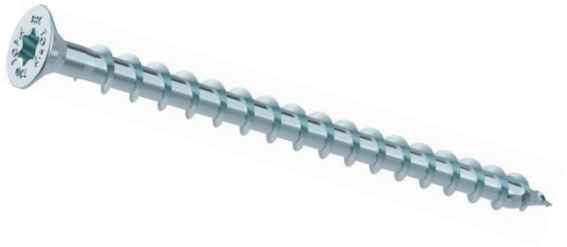
Countersunk head screws stainless steel A2

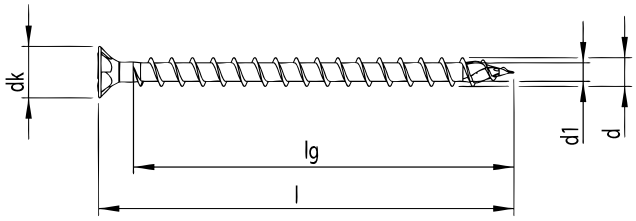
Blank, slip-coated

Art.-Nr.	d	l	lg	dk	Drive
99111.4550	4,5	50	45	8,9	POZI-Drive
99111.4560	4,5	60	54	8,9	POZI-Drive
99111.5060	5	60	54	9,6	POZI-Drive
99111.5070	5	70	60	9,6	POZI-Drive



for our heavy-duty HVP connectors 884 - 885 and our GePi-Connect. hardened, galvanized.





Art.-Nr.	d	l	lg	dk	Drive
99211.0880	8	80	70	14,8	T-Drive
99211.0810	8	100	90	14,8	T-Drive
99211.0812	8	120	110	14,8	T-Drive
99211.0816	8	160	150	14,8	T-Drive
99211.0818	8	180	170	14,8	T-Drive
99211.0820	8	200	190	14,8	T-Drive
99211.0822	8	220	210	14,8	T-Drive
99211.0824	8	240	230	14,8	T-Drive

Countersunk screws.

for our SPP connectors, hardened, galvanized.

Art.-Nr.	d	l	lg	dk	Drive
99211.1012	10	120	110	18,5	T-Drive
99211.1016	10	160	150	18,5	T-Drive
99211.1028	10	280	270	18,5	T-Drive

Concrete or steel connections

Fischer high-performance anchor

galvanized

Art.-Nr.	Dimensions mm	Hexagon socket SW	Description	for Art.-Nr.
99812.0090	12 x 90	5	FH II 12/15 SK	88210.3000 - 88322.3000
99812.0100	12 x 100	5	FH II 12/25 SK	88420.3000 - 88460.3000

Fischer internal-threaded anchor RG MI

(for Art-No. 88420.3000 - 88460.3000) galvanized

Art.-Nr.	Dimensions mm	Internal thread
99818.0125	18 x 125	M 12

Fischer Ultracut

galvanized

Art.-Nr.	Dimensions mm	Description	for Art.-Nr.
99810.0100	12,5 x 100	FBS II 10x100 mm, 45/35/15, SK	88210.3000 - 88322.3000
99810.0120	12,5 x 120	FBS II 10x120 mm, 65/55/35, SK	88420.3000 - 88460.3000

galvanized blue

Art.-Nr.	d	l	lg	dk	Drive	Description	for Art.-Nr.
99212.0100	12	100	89	24	T-Drive	MMS-plus F 12x100/25	88210.3000 - 88322.3000
99212.0120	12	120	109	24	T-Drive	MMS-plus F 12x120/30	88420.3000 - 88460.3000

HECO MULTI-MONTI plus

galvanized, blue

Art.-Nr.	d	l	lg	SW	Description	For post bases
99216.1080	10	80	76	13	MMS-plus SS 10x80/15	M20, M24
99216.1212	12	120	115	15	MMS-plus SS 12x120/30	M30
99216.1613	16	130	125	21	MMS-plus SS 16x130/15	M30

Mounting set for steel connection

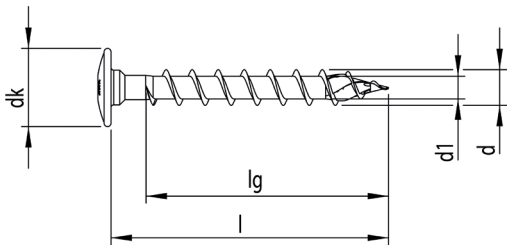
(for Art-No. 88420.3000 - 88460.3000). galvanised.

Art.-Nr.	Dimensions mm	Hexagon socket SW	Description
29804.1250	12 x 50	8	4er-Set
29804.1260	12 x 60	8	4er-Set
29806.1250	12 x 50	8	6er-Set
29806.1260	12 x 60	8	6er-Set

Washer-head screws

Washer-head screws T-Drive full-thread

for our wall connectors, hardened, galvanized.



Art.-Nr.	d	l	lg	dk	Drive
99210.6060	6	60	53	14	T-Drive

for our GePi-Connect, hardened, galvanized.

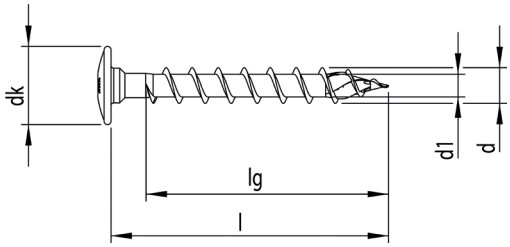
Art.-Nr.	d	l	lg	dk	Drive
99200.0880	8	80	60	18	T-Drive

for our post bases, hardened, galvanized.

Art.-Nr.	d	l	lg	dk	Drive
99210.1012	10	120	110	22,5	T-Drive
99210.1016	10	160	150	22,5	T-Drive

Washer-head screws T-Drive full-thread A2

Blank, slip-coated, for mounting in service class 3



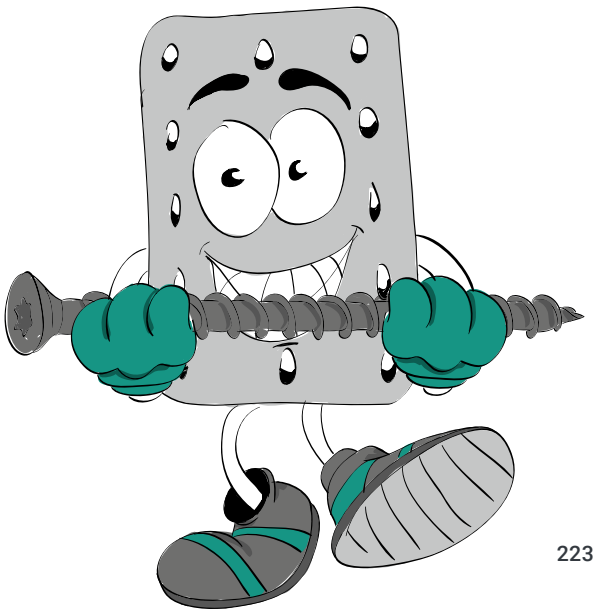
Art.-Nr.	d	l	lg	dk	Drive
99110.1012	10	120	100	22,5	T-Drive

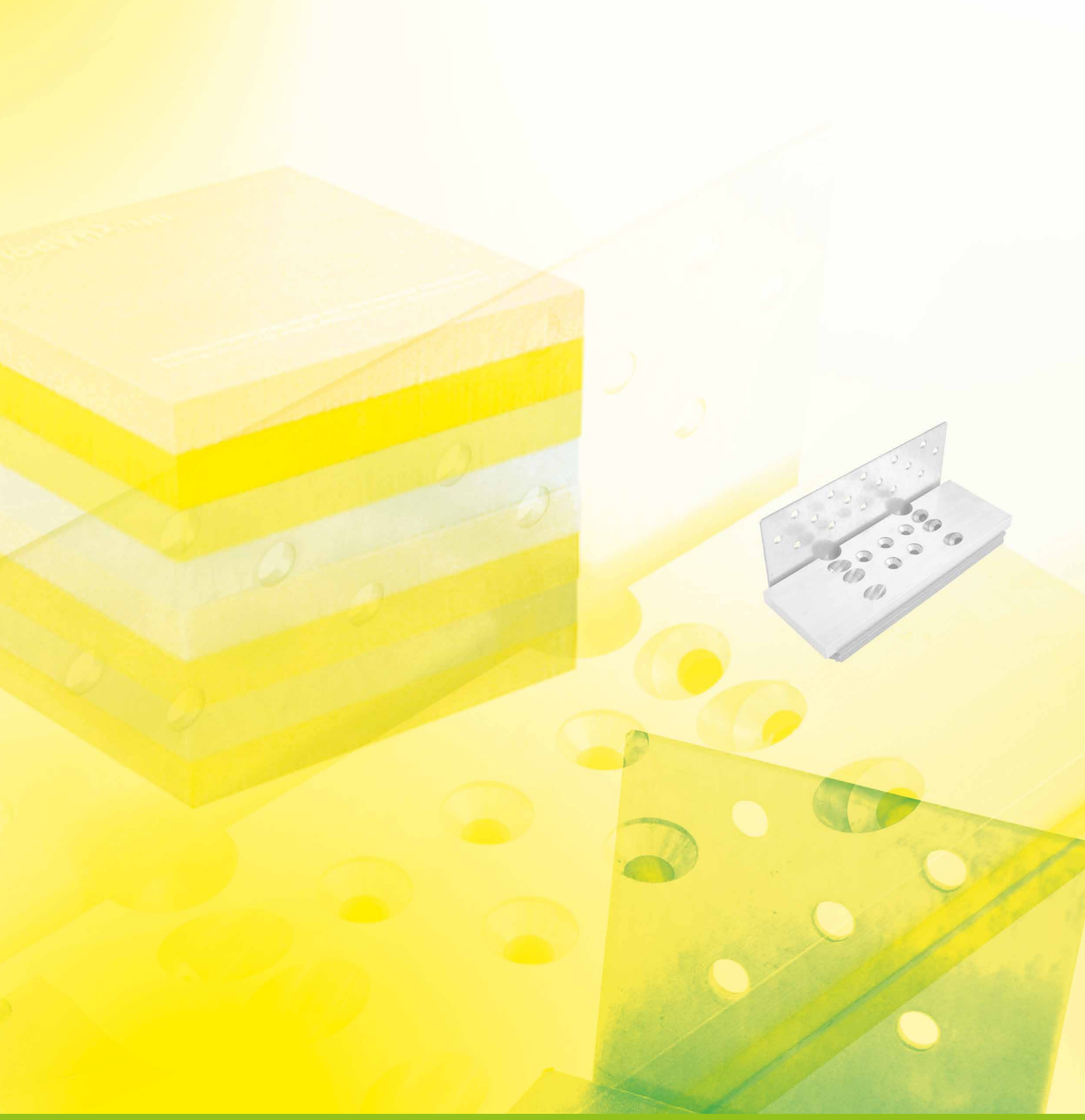
Product note

The tensile load capacity can be increased by using a wood screw with a longer effective thread length. For dimensioning details, please refer to the Pitzl static manual.

Simply SAF special screws

Art.-Nr.	d	l	dk	Drive	Minimum width secondary beam
98907.0073	7	73	15	T40	80
98907.0093	7	93	15	T40	100
98907.0113	7	113	15	T40	120
98907.0133	7	133	15	T40	140
98907.0153	7	153	15	T40	160
98907.0173	7	173	15	T40	180
98907.0193	7	193	15	T40	200
98907.0213	7	213	15	T40	220





Sound protection

ETA-10/0413 ETA-15/0187 ETA-21/0750

Pitzl Metallbau GmbH & Co. KG

DIN EN 1090-2

ZiNiP max protection

HVP heavy duty

Content

Sound protection angle bracket with power
GePi - Connect

The „GePi- Connect“, developed in the course of the cooperation with Getzner Werkstoffe has a much higher load-bearing capacity than comparable concepts. On the basis of test results the TVFA-Innsbruck confirms characteristic loads up to 60 kN for the GePi 240. Cyclic stresses impressively confirm the efficiency due to acting dynamic loads of the revolutionary GePi-concept.

Art.-Nr.: 81000.0080

Dimensions:

Designation	Measurements (mm) A	B	H	S
GePi 80	80	80	80	3

Screwing 8 mm Horizontal (TK 8 x 80 TG)	Vertical (SK 8 x 160 VG)	Characteristic load capacity [kN] $F_{1,k}$	$F_{2/3,k}$	$F_{4/5,k}$
3	2	8	5	5

Angle bracket	Sylodyn	Supporting plate
Steel S250GD + Z275	Closed-cell PUR	Steel S250GD + Z275

Art.-Nr.: 81000.0100

Dimensions:

Designation	Measurements (mm) A	B	H	S
GePi 100	100	100	100	3

Screwing 8 mm Horizontal (TK 8 x 80 TG)	Vertical (SK 8 x 160 VG)	Characteristic load capacity [kN] $F_{1,k}$	$F_{2/3,k}$	$F_{4/5,k}$
5	4	16	12	20

Angle bracket	Sylodyn	Supporting plate
Steel S250GD + Z275	Closed-cell PUR	Steel S235

Art.-Nr.: 81000.3100

Dimensions:

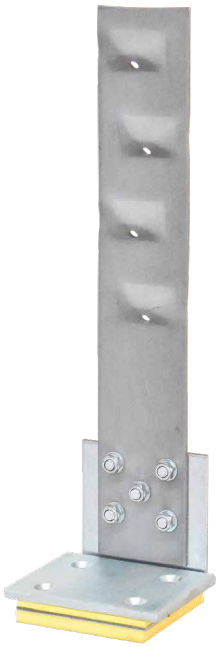
Designation	Measurements (mm) A	B	H	S
GePi 100 Concrete	100	100	100	3

Screwing 8 mm Horizontal (TK 8 x 80 TG)	Vertical (SK 8 x 160 VG)	Characteristic load capacity [kN] $F_{1,k}$	$F_{2/3,k}$	$F_{4/5,k}$
5	4	10	5,5	10

Angle bracket	Sylodyn	Supporting plate
Steel S250GD + Z275	Closed-cell PUR	Steel S235

Pull tab associated to GePi 100 / GePi 100 concrete

Adaptive extension for the GePi 100 to transfer the tensile strength onto the post. The inclined screw connection in the post guarantees power transmission of the GePi-connect.



Art.-Nr.: 81000.0103

Dimensions:

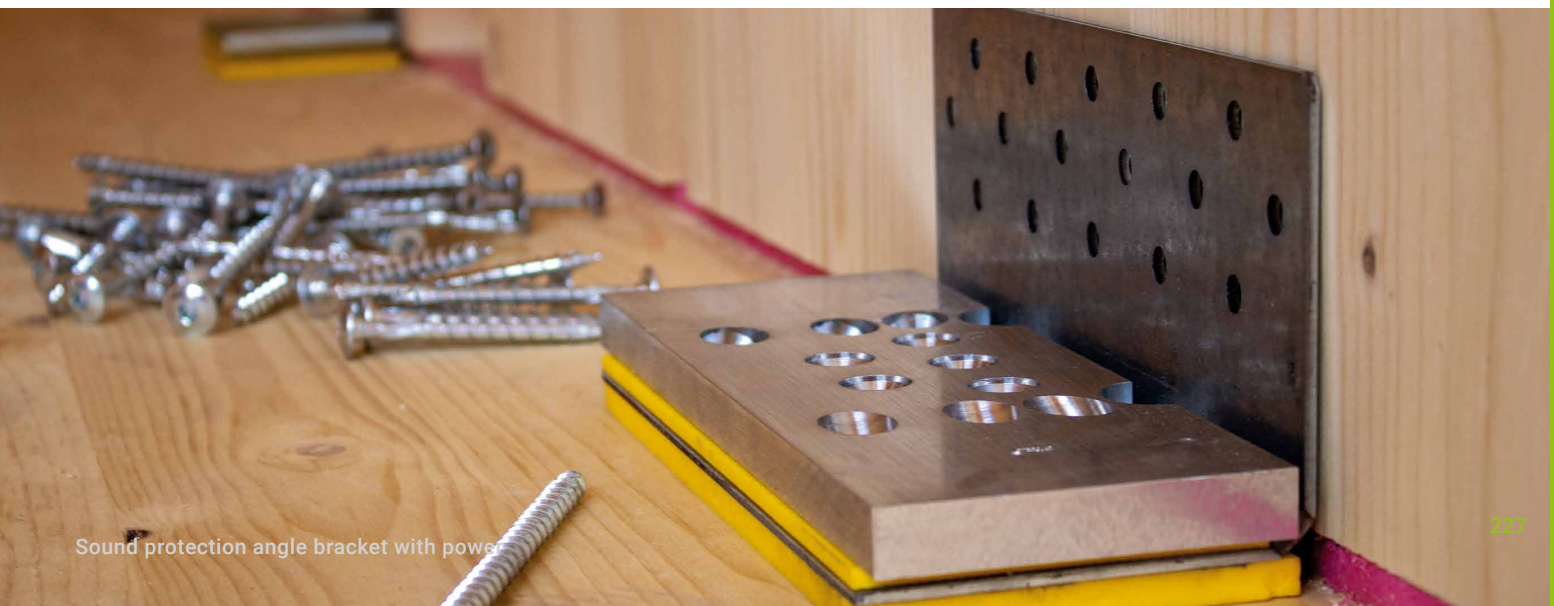
Measurements (mm)
70 x 3 x 400

Suitable for	Holes	
	GePi	Bevel
81000.0100 81000.3100	5 x Ø 9 mm	4 x Ø 5,5 mm

Advantages and benefits

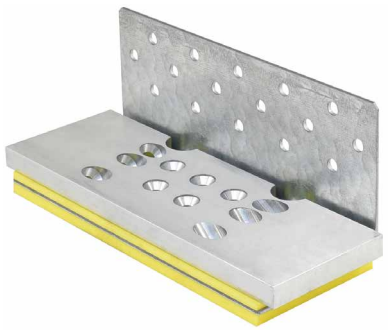
- High shear- and tensile strength
- Sound transmission decoupled connection
- Proofed sound insulation
- Reliability for Engineers and users
- Approved product quality

Further GePi brackets and accessories can be found on the next page!



Sound protection angle bracket with power

Art.-Nr.: 81000.0240



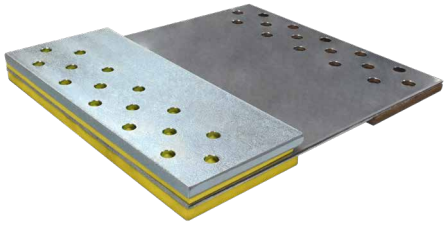
Dimensions:

Designation	Measurements (mm) A	B	H	S
GePi 240	100	240	100	3

Screwing 8 mm Horizontal (TK 8 x 80 TG)	Vertical (SK 8 x 160 VG)	Characteristic load capacity [kN] $F_{1,k}$	$F_{2/3,k}$	$F_{4/5,k}$
16	11	54	62	55

Angle bracket	Sylodyn	Supporting plate
Steel S250GD + Z275	Closed-cell PUR	Aluminium

Art.-Nr.: 81000.1240



Dimensions:

Designation	Measurements (mm) A	B	H	S
GePi 240 Flach	280	240	-	4

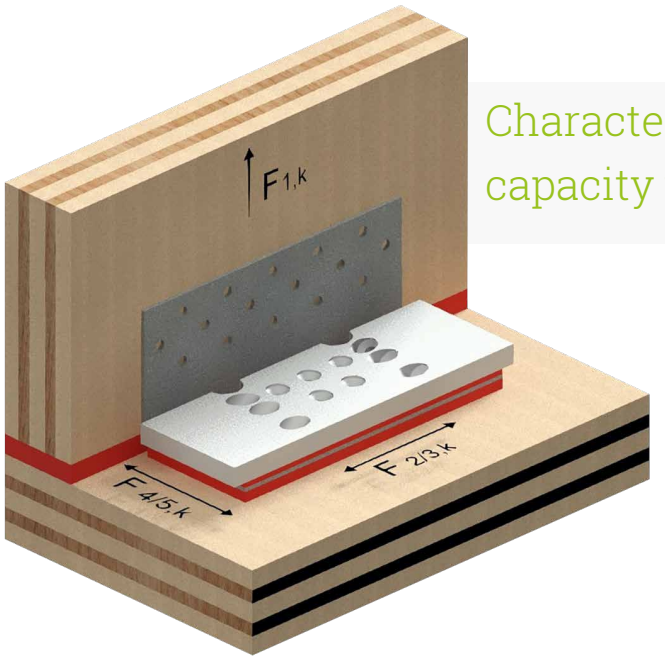
Screwing 8 mm Horizontal (TK 8 x 80 TG)	Characteristic load capacity [kN] $F_{1,k}$	$F_{2/3,k}$	$F_{4/5,k}$
32	-	35	35

Flach	Sylodyn	Supporting plate
S235JR	Closed-cell PUR	Steel S235

Applications

Angle brackets for shear loads with decoupled flanks

- Connection timber-timber
- High wind forces
- Earthquake loads (GePi 240)
- Lifting forces
- Increased requirements on sound insulation

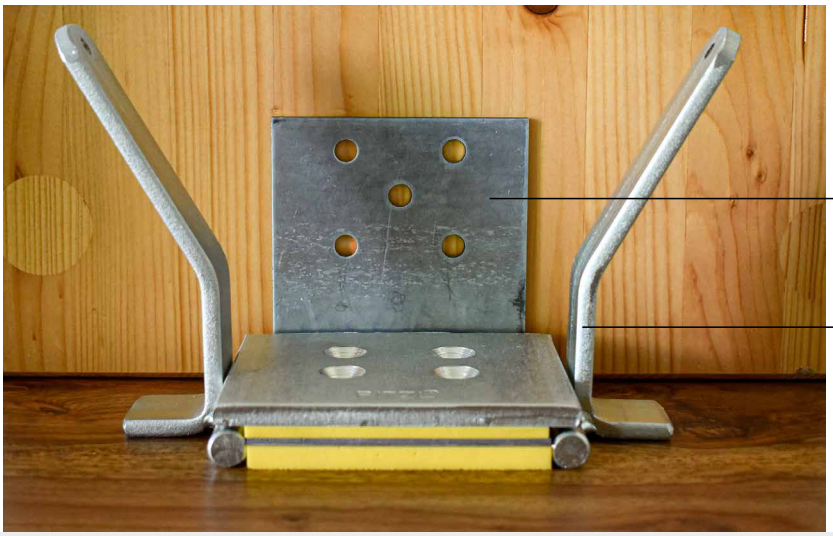


Characteristic Load-bearing capacity up to **62 kN**

In coparision to a lot of other conventional building materials, elastomers have a distinctive pronounced non-linear material behavior. That means, material parameters such as static- and dynamic stiffnesses are dependent on the particular load situation.

Application example

For custom fit installation of all GePi angle brackets.



Art.-Nr. 81000.0100

Art.-Nr. 81010.0000

Accessoires

Art.-Nr.	Description	Page
99200.0880	Washer-head screws Ø 8 x 80 mm	222
99210.0812	Washer-head screws Ø 8 x 120 mm	222
99200.0816	Washer-head screws Ø 8 x 160 mm	222
99211.0816	Countersunk screws Ø 8 x 160 mm	219
81010.0000	Fitting tool, 2-parts for GePi angle brackets	

Sylodyn® and Sylomer® insulation band

Counteract sound transmission in a targeted manner.

Getzner's decades of experience with vibration insulation in the railroad, construction and industrial sectors enable architects, planners and building physicists as well as carpentry and timber construction companies to meet the high static requirements in buildings.

The tapes are 6.25, 12.5 or 25 mm thick, depending on requirements, and are manufactured in the desired dimensions according to customer specifications. They are available in various degrees of rigidity and are installed between the wall and ceiling. Stiffer Sylodyn types are also available for components subject to particularly high loads and pressures.

Sylodyn®

Closed-cell PUR-Elastomer (Polyurethan)

Art.-Nr.	Designation	Static application in N/mm²	Load peaks[1] in N/mm²
81100	**NB**	0,075	2,00
81200	**NC**	0,150	3,00
81300	**ND**	0,350	4,00
81400	**NE**	0,750	6,00
81500	**NF**	1,500	8,00
81601	**HRB HS 3000**	3,000	12,00
81602	**HRB HS 6000**	6,000	18,00
81600	**HRB HS 12000**	12,000	24,00

Sylomer®

Mixed-cell PUR-Elastomer (Polyurethan)

Art.-Nr.	Designation	Static application in N/mm²	Load peaks[1] in N/mm²
84200	**SR 11**	0,011	0,50
84700	**SR 18**	0,018	0,75
84400	**SR 28**	0,028	1,00
84000	**SR 42**	0,042	2,00
84300	**SR 55**	0,055	2,00
84110	**SR 110**	0,110	3,00
84100	**SR 220**	0,220	4,00
84800	**SR 450**	0,450	5,00
84900	**SR 850**	0,850	6,00
84500	**SR 1200**	1,200	6,00

Product information

We supply Sylodyn® or Sylomer® strips exactly according to customer requirements.
Put together your insulation strips according to your requirements as follows:

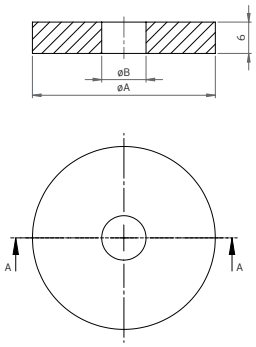
1. Selecting the elastomer
2. Selecting the strength
   (1: 12,5mm; 4: 6,25mm 5: 25mm)
3. Specification of the required width

Example: 81400.1250:
A strip of Sylodyn® NE, 12.5 mm thick and 250 mm wide, and 1500 mm length.

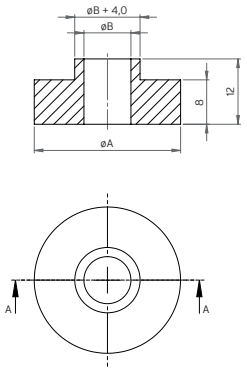
Elastic washers

Elastic washers are used to decouple screw connections to avoid any kind of structure-borne sound. The polyurethane material Sylodyn® effectively isolates vibrations and have a long working period. In addition to the sound insulation, the elastic washers also electrically non-conductive and resistant to common oils and greases.

Simple version:



version with centering aid:



Art.-Nr.	Designation	Thickness	Screw dimension	Ø A	Ø B
81900.0806	EW M8-6	6 mm	M8	35 mm	9 mm
81900.1006	EW M10-6	6 mm	M10	40 mm	11 mm
81900.1206	EW M12-6	6 mm	M12	50 mm	13 mm
81900.1606	EW M16-6	6 mm	M16	55 mm	17 mm
81901.0808	EW M8-8	8 mm	M8	28 mm	9 mm
81901.1008	EW M10-8	8 mm	M10	34 mm	11 mm
81901.1208	EW M12-8	8 mm	M12	44 mm	13 mm
81901.1608	EW M16-8	8 mm	M16	56 mm	17 mm
81900.0812	EW M8-12	12 mm	M8	35 mm	9 mm
81900.1012	EW M10-12	12 mm	M10	40 mm	11 mm
81900.1212	EW M12-12	12 mm	M12	50 mm	13 mm
81900.1612	EW M16-12	12 mm	M16	55 mm	17 mm
81901.0821	EW M8-21	21 mm	M8	28 mm	9 mm
81901.1021	EW M10-21	21 mm	M10	34 mm	11 mm
81901.1221	EW M12-21	21 mm	M12	44 mm	13 mm
81901.1621	EW M16-21	21 mm	M16	56 mm	17 mm

- Effective sound- and vibration insulation
- Durable material properties
- No embrittlement (free of plasticizers)
- Assortment for different screw sizes
- Variants with centering aid
- Fire behavior according to DIN EN 13501-1
- Surface protection
- Electrically non-conductive
- Resistant to oils and greases
- Thermally insulating

Execution

In addition to the standard solution are also washers with centering (fold) available to facilitate installation and accurate positioning of the screw to the borehole.

For screw sizes M8, M10, M12 and M16 are different dimensions available, adapted on different bearing thicknesses and various stiffness. Please ask for the maximum torsional moment.

Special construction

Content

A suitable product for every application

Special applications for modern wood construction always need individual solutions. Despite the wide range of Pitzl standard products some customer requests can sometimes not be fulfilled with these products.

This is the reason why we have our special construction department.
Due to our selected machinery ranging from a CNC-milling machine to a fully automatic plasma cutter we can meet all individual customer requests.

Our technical team will be happy to support you right from the planning phase.

A structured process is important

In order to produce the requested custom-made product quickly and accurately, a regulated approach is needed.

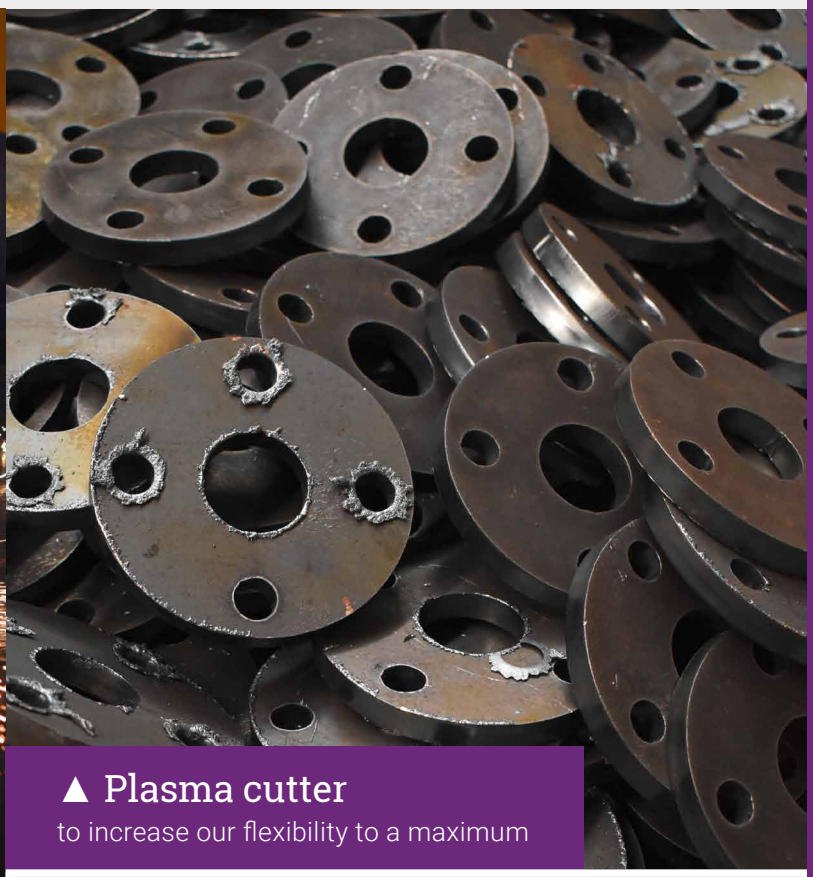
The special construction procedure is as follows:

1. **Your request**
   You send the request to our team by e-mail. Please add a sketch or a drawing of the required component.

2. **Elaboration and offer**
   From now on our team is constantly in touch with you in order to fulfill change requests/proposals or corrections immediately. You will receive a non-binding offer including a expected delivery time immediately.

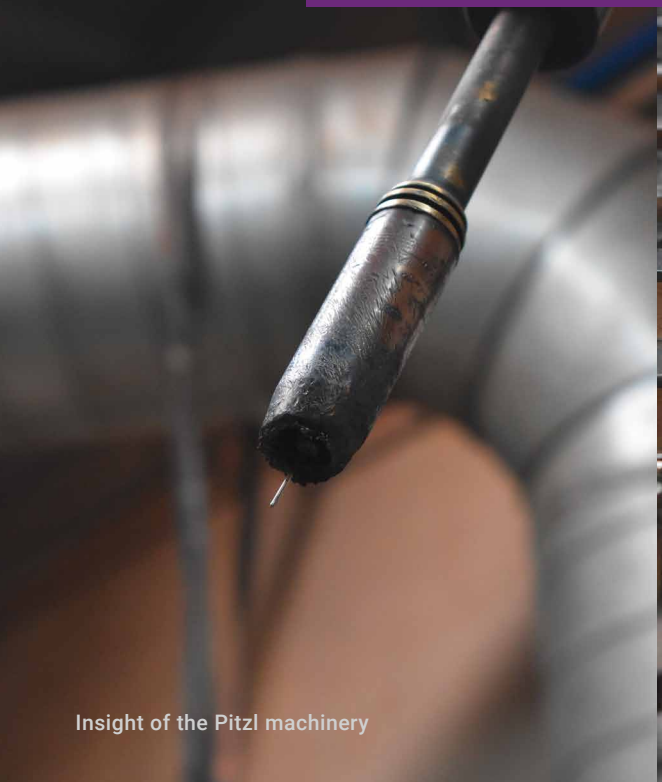
3. **Your approval**
   If the suggested product, price and delivery time meet your expectations we ask you to confirm the order in writing.

4. **Production and delivery**
   Once we have received your order, we will start production as soon as possible so that we can reliably meet the agreed delivery date.

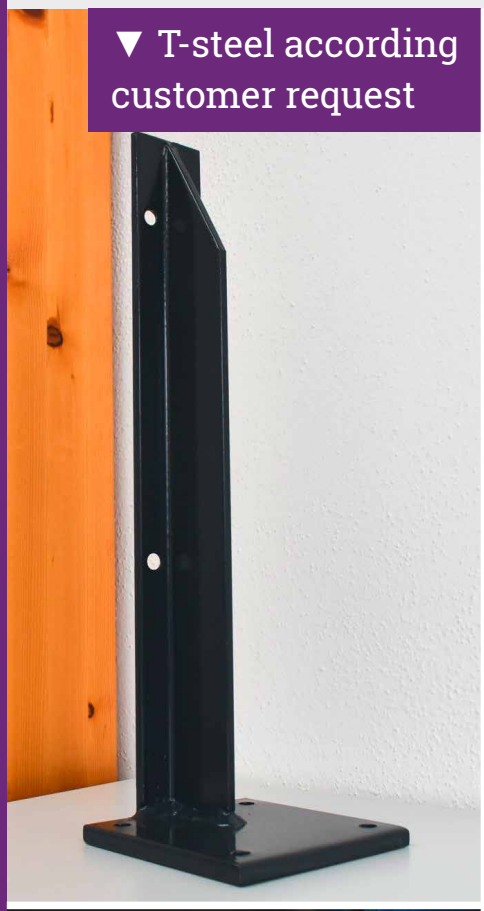


▲ Plasma cutter
to increase our flexibility to a maximum

▼ Welding robot
to ensure consistent quality.

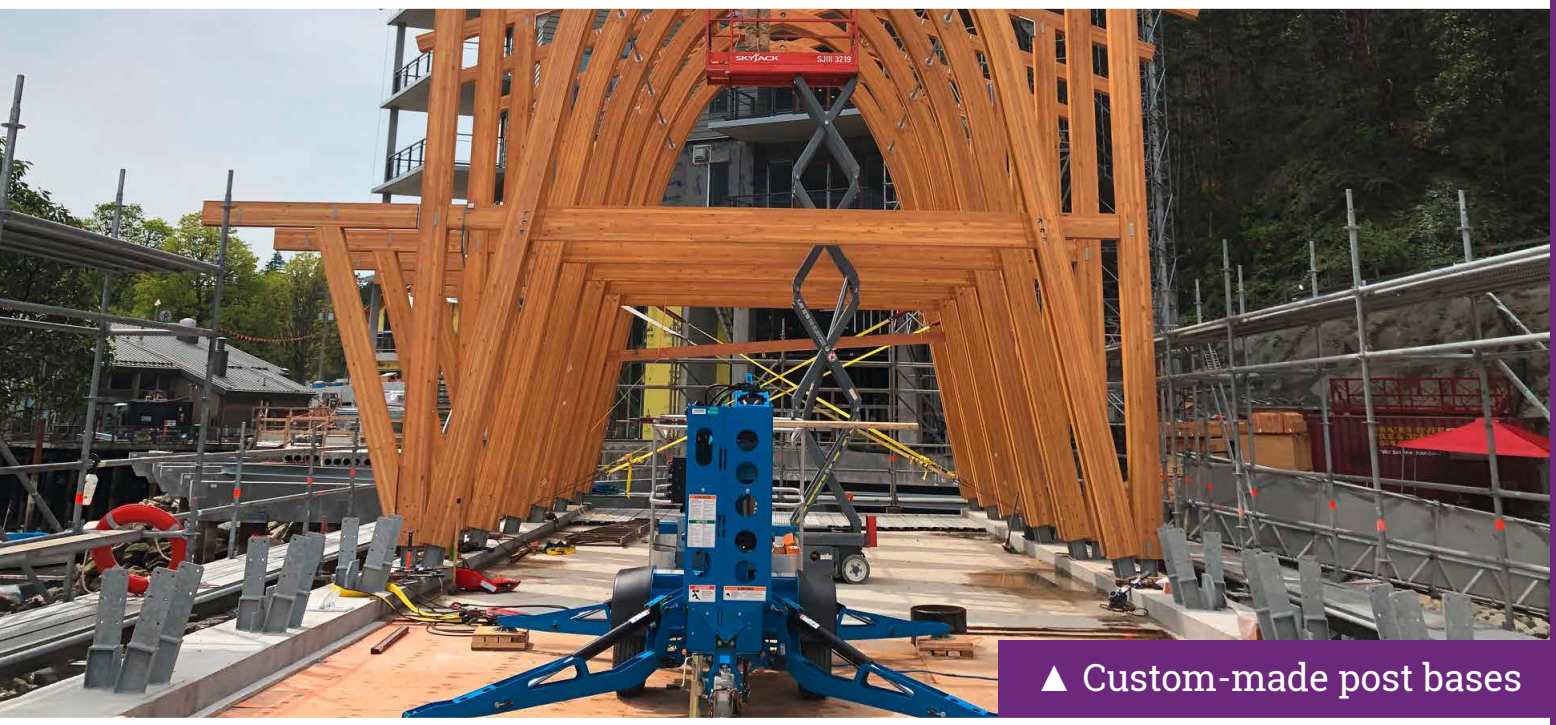


▼ T-steel according customer request

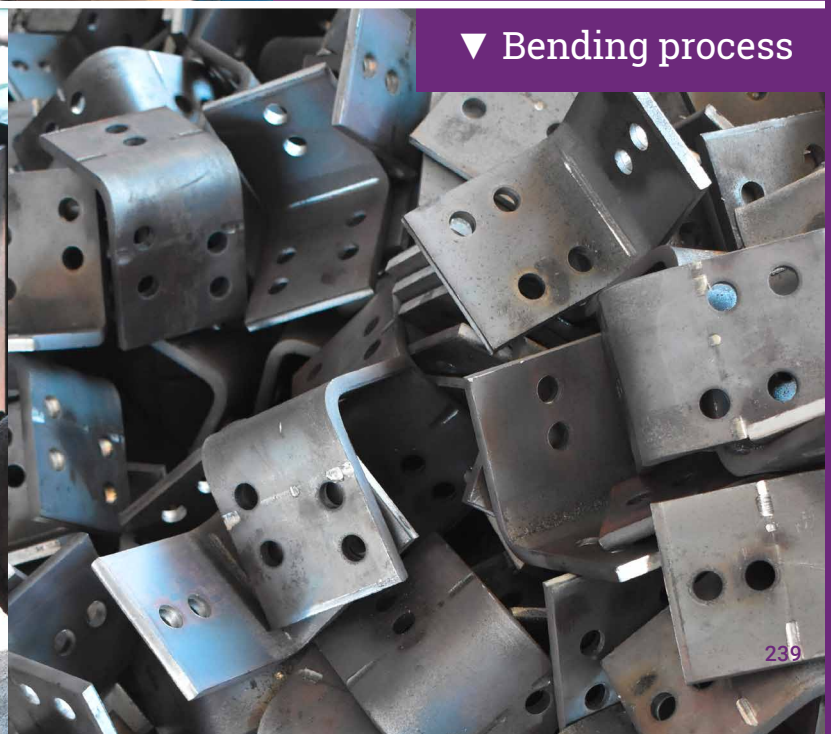


▲ welding work on custom-made post bases

▼ Grind off weld seams



▲ Custom-made post bases



▼ Bending process

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