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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-10/0422 of 2019/11/16

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	Rotho Blaas GmbH/srl post bases type F10, F20, F30, F40, F50, F60, F70, FD10, FD20, FD30, FD40, FD50, FD60, M10, M20, M30, M50, M60, M70, P10, P20, R10, R20, R30, R40, R50, R60, R70, R80, R90, S10, S20, S30, S40, S50, FI10, FI50, RI40, MI20 and XS10
Product family to which the above construction product belongs:	Three-dimensional nailing plate (Post bases for the support of timber columns and posts as load-bearing elements)
Manufacturer:	Rotho Blaas s.r.l Via dell'Adige 2/1 IT-38040 Cortaccia (BZ) Tel. + 39 0471 818400 Fax + 39 0471 818484 Internet www.rothoblaas.com
Manufacturing plant:	Rotho Blaas s.r.l Manufacturing Plants: 1P, 2P
This European Technical Assessment contains:	86 pages including 2 annexes which form an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	Guideline for European Technical Approval (ETAG) No. 015 Three Dimensional Nailing Plates, April 2013, used as European Assessment Document (EAD).
This version replaces:	The ETA with the same number issued on 2016-01-08

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product
The Rotho Blaas post bases are made of 2.0 mm to 16.0 mm thick steel plates in combination with steel tubes or threaded rods. The post bases are produced of steel grade S235JR according to EN 10025-2 with a minimum characteristic yield strength of R_{eH} = 235 N/mm² and a minimum characteristic tensile strength of R_m = 360 N/mm² or of stainless steel according to EN 10088-3 with at least minimum characteristic yield strength of $R_{p0,2}$ = 235 N/mm² and minimum characteristic tensile strength of R_m = 500 N/mm². The threaded rods correspond to property class 4.8 according to EN ISO 898-1.

For the connections with metal fasteners bolts ø10 mm and ø12 mm and dowels ø12 mm according to EN 14592 and self-tapping dowels SBD ø7.5 mm according to EN 14592, screws HBS+/GHS+ ø6 mm and ø8 mm and fully threaded screws ø7.0 mm according according to ETA-11/0030 are used. The screws shall be driven without pre-drilling or after pre-drilling according to the ETA-11/0030. The outer diameter for washers of bolts shall be not less than $3 \cdot d_B$, where d_B is the diameter of the bolts. The thickness shall be not less than $0{,}3 \cdot d_B$.

For anchorage in the foundation reinforcement bars or steel profiles are used, as well as metal anchors.
Dimensions are shown in Annex A and B.

2 Specification of the intended use in accordance with the applicable EAD

The intended use of the post bases is the support of timber columns and posts as load-bearing elements, where requirements for mechanical resistance and stability and safety in use in the sense of the basic requirements for construction works 1 and 4 of Regulation (EU) 305/2011 shall be fulfilled.

The static and kinematical behaviour of the timber members or the supports shall be as described in Annex B.

The timber posts may be of solid timber of strength class C20 or better according to EN 338 or of glued laminated timber according to EN 14080. Minimum dimensions for the post have to be considered (Annex A). The cross-section of the timber column shall be positioned centrically and with the end grain plane on the base plate. Post bases type M20, M50 and F70 have a clearance between the end grain of the timber post and the base plate or foot plate, respectively, due to the geometry of the post bases. In order to avoid fungal attack due to permanent high moisture content, the end grain of timber posts with contact or only a very small distance to the foundation (post bases type F10, F20, F30, F40, F70, FD30, FD50, FD60, M30, M70 and XS10) should be protected from humidity by other means.

The maximum distance between the foundation and the base plates' lower edge of the post base shall in general be 100 mm. The maximum distance between the foundation and the base plates' lower edge plate of the post base is given in Annex A, table A.1 (distance a). For post bases type P10, P20, R20, R30, R40; R50, R60; R80, R90, S10, S20, S30, S50 and RI40 larger distances are allowed.

Annex B states the load-carrying capacities of the post bases for solid timber of strength class C24 according to EN 338. Thus, when solid timber of strength class C20 is used, the characteristic load-carrying capacities of timber should be reduced by a factor of 0,9.

For timber or wood base material with higher characteristic density than 350 kg/m^3 the load-carrying capacities shall taken as that for 350 kg/m^3 unless detailed analyses are conducted. The design of the connections shall be in accordance with Eurocode 3 and Eurocode 5 or a similar national code. The anchorage of the post base in the foundation (except for type M70) and imperfections exceeding the assumptions in Eurocode 5, 5.4.4 are not part of this ETA.

The post bases are for use in timber structures subject to service classes 1, 2 and 3 of Eurocode 5 and for connections subject to static or quasi-static loading. In service class 1 and 2 the corrosion protection is given according to EN1995-1-1, or by equivalent measures.

In service class 3 the corrosion protection is given according to EN1995-1-1 or by stainless steel or zinc coating with minimum thickness of 55 µm according to EN ISO 1461, or by equivalent measures. Alternatively, a Zn-Al flake coating with minimum thickness 8 µm (DAC8 also called Dac Coat) can be used as corrosion protection in service class 3.

The metal fasteners must also be of stainless steel or have a zinc coating for the intended use in service class

3 of EN 1995-1-1 (zinc coating Fe/Zn 25 according to EN ISO 2081).

The assumed intended working life of the post bases for the intended use is 50 years, provided that they are subject to appropriate use and maintenance.
The information on the working life should not be regarded as a guarantee provided by the manufacturer or ETA Danmark. An “assumed intended working life” means that it is expected that, when this working life has elapsed, the real working life may be, in normal use conditions, considerably longer without major degradation affecting the basic requirements for construction works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic
3.1 Mechanical resistance and stability*) (BWR1)	
Characteristic load-carrying capacity	See Annex B
Stiffness	No performance assessed
Ductility in cyclic testing	No performance assessed
3.2 Safety in case of fire (BWR2)	
Reaction to fire	The post bases are made from steel classified as class A1 in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364.
3.7 Sustainable use of natural resources (BWR7)	No performance assessed
3.8 General aspects related to the performance of the product	The post bases have been assessed as having satisfactory durability and serviceability when used in timber structures using the timber species described in Eurocode 5and subject to the conditions defined by service class 1, 2 and 3.
Identification	See Annex A

*) See additional information in section 3.9 – 3.12.

3.9 Methods of verification

The characteristic load-carrying capacities are based on the characteristic values of the connections with metal fasteners, the steel plates, the timber post and the foundation (only for type M70).

In the case of timber failure or failure of the metal fasteners, the design values shall be calculated according to EN 1995-1-1 by dividing the characteristic values of the load-carrying capacities by different partial factors for the strength properties, and in addition multiplied with the coefficient k_{mod}.

In the case of steel failure, the design value shall be calculated according to EN 1993-1-1 by reducing the characteristic values of the load-carrying capacity with different partial factors.

In the case of foundation failure, the design value shall be calculated according to EN 1997-1 by reducing the characteristic values of the load-carrying capacity with different partial factors.

The design value of the load-carrying capacity is the smaller value of all load-carrying capacities:

$$F_{Rd} = \min\left\{\frac{k_{mod} \cdot F_{Rk,T}}{\gamma_{M,T}}; \frac{k_{mod} \cdot F_{Rk,C}}{\gamma_{M,C}}; \frac{F_{Rk,S}}{\gamma_{Mi,S}}; \frac{F_{Rk,B}}{\gamma_{Ri,B}}\right\}$$

Therefore, for timber failure or failure of the metal fasteners the load duration class and the service class are included. The different partial factors for steel $\gamma_{Mi,S}$, timber $\gamma_{M,T}$, connections $\gamma_{M,C}$ or foundation $\gamma_{Ri,B}$ failure, respectively, have to be correctly taken into account.

3.10 Mechanical resistance and stability

See Annex B for the characteristic load-carrying capacity in the different directions F_1 to F_5 and M_2 to M_5 for solid timber of strength class C24 according to EN 338. Solid timber of strength class C20 may be included by a reducing factor of 0,9 for the characteristic load-carrying capacity of timber. Using the load-carrying capacities of the post bases, the specifications in Annex A must be fulfilled. The end grain of the timber post must in general be plane on the base plate of the post base Post bases type M20, M50 and F70 have a clearance between the end grain of the timber post and the base plate or foot plate, respectively, due to the geometry of the post bases.

The characteristic capacities of the post bases are assessed by calculation according to Eurocode 3 and Eurocode 5. They should be used for designs in accordance with Eurocode 3 and Eurocode 5 or a similar national code. For post base type M70 the characteristic capacities of the foundation are determined by calculation according to Eurocode 7 on condition that following soil characteristics are provided: bulk density γ=18 kN/m^3, angle of shearing resistance φ=30°, cohesion c=5 kN/m^2. The characteristic capacities of post bases type R10 and R30 were assessed by using test results of Holzforschung Austria.

For timber or wood base material with higher characteristic density than 350 kg/m^3 the load-carrying capacities shall taken as that for 350 kg/m^3 unless detailed analyses are conducted

No performance has been assessed in relation to ductility of a joint under cyclic testing. The contribution to the performance of structures in seismic zones, therefore, has not been assessed.

No performance has been assessed in relation to the joint's stiffness properties - to be used for the analysis of the serviceability limit state.

No performance has been determined in relation to the anchorage of the post bases in the foundation (except for type M70). It must be checked by the designer of the structure to ensure it is not less than the post base capacity and, if necessary, the post base capacity reduced accordingly. Therefore, the specifications for the lever arms $e_{F2/F3}$ (for load case F_2 / F_3) and $e_{F4/F5}$ (for load case F_4 / F_5) in annex A have to be considered. The lever arm is the distance between the top edge of the foundation and the load.

3.11 Aspects related to the performance of the product

3.11.1 Corrosion protection in service class 1 and 2.
The corrosion protection is given according to EN1995-1-1, or by equivalent measures.
The requirement is fulfilled also by post bases with a corrosion protection hot-dip galvanized of approximately 55 um according to EN ISO 1461, or by equivalent measures.. See section II.1 for characteristics of the steel.

3.11.2. Corrosion protection in service class 3
In service class 3 the corrosion protection is given according to EN1995-1-1, or by equivalent measure.
The requirement is fulfill by post bases with a corrosion protection stainless steel according to EN 10088-3 or hot-dip galvanized of approximately 55 µm according to EN ISO 1461, or by equivalent measures. Alternatively, a Zn-Al flake coating with minimum thickness 8 µm (DAC8 also called Dac Coat) can be used as corrosion protection in service class 3. See section II.1 for characteristics of the steel.

3.12 General aspects related to the fitness for use of the product

Rotho Blaas post bases are manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

- The timber post
  - shall be restrained against rotation, and supported at the lower and upper end
  - shall be strength class C20 according to EN 338 or better, see section 3 of this evaluation report
  - shall be free from wane in the post base
  - must fulfil the requirements regarding minimum dimensions (see Annex A)
  - end grain must in general be plane on the base plate of the post base; post bases type M20, M50 and F70 have a clearance between the end grain of the timber post and the base plate or foot plate, respectively, due to the geometry of the post bases.
- The actual end bearing capacity of the timber member to be used in conjunction with the post base is checked by the designer of the structure to ensure it is not less than the post base capacity and, if necessary, the post base capacity reduced accordingly.
- To provide for constructive wood preservation, appropriate measures should be taken to protect the end grain of timber posts with contact or little distance to the foundation (post bases type F10, F20, F30, F40, F70, FD30, FD50, FD60, M30, M70 and XS10).
- There are no specific requirements relating to preparation of the timber members.
- The maximum distance between the foundation and the base plates' lower edge of the post base shall in general be 100 mm. For post bases type P10, P20, R20, R30, R40; R50, R60; R80, R90, S10, S20, S30, S50 and RI40 larger distances are allowed.
- In case of post base type M70 the characteristic capacities of the foundation are determined by calculation according to Eurocode 7 on condition that following soil characteristics are provided: bulk density $\gamma = 18$ kN/m^3, angle of shearing resistance $\varphi = 30°$, cohesion $c = 5$ kN/m^2.
- The anchorage of the post base in the foundation – except for post base type M70 - is not part of this ETA. It must be checked by the designer of the structure to ensure it is not less than the post base capacity and, if necessary, the post base capacity reduced accordingly. Therefore, the specifications for the lever arms $e_{F2/F3}$ (for load case F_2 / F_3) and $e_{F4/F5}$ (for load case F_4 / F_5) in Annex A have to be considered. The lever arm is the distance between the top edge of the foundation and the load.

- Due to the design of the post bases F70 and XS10, the wood cross-sections are sensitive to splitting under horizontal or moment load. Above the inner steel plates, fully threaded screws against splitting should be arranged in case of horizontal or moment load (2 per direction).

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 97/638/EC of the European Commission1, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking

Issued in Copenhagen on 2019-11-16 by

Thomas Bruun
Managing Director, ETA-Danmark

Annex A
Product details and definitions

Table A.1: Specifications of the post bases

Post base			Quantity	Metal Fasteners	Post [mm]	Distances [mm]		
Type	**Art.-No.**	**Configuration**			**min b/h**	**max. a**	**$e_{F2/F3}$**	**$e_{F4/F5}$**
F10	F10_1	-	1	2x HBS+/GHS+ ø8x60mm	71/71	-	77	77
	F10_2	-	1	4x HBS+/GHS+ ø8x40mm	91/91	-	77	77
F20	F20_1	-	1	4x HBS+/GHS+ ø8x40mm	ø81	-	77	77
	F20_2	-	1	4x HBS+/GHS+ ø8x40mm	ø101	-	77	77
	F20_3	-	1	4x HBS+/GHS+ ø8x60mm	ø121	-	77	77
	F20_4	-	1	4x HBS+/GHS+ ø8x60mm	ø141	-	77	77
F30	F30_1	-	1	4x HBS+/GHS+ ø8x60mm	71/71	-	122	122
	F30_2	-	1	4x HBS+/GHS+ ø8x40mm	91/91	-	122	122
F40	F40_1	-	1	4x HBS+/GHS+ ø8x60mm	71/71	-	122	122
	F40_2	-	1	4x HBS+/GHS+ ø8x40mm	91/91	-	122	122
F50	F50_1	-	1	4x HBS+/GHS+ ø8x60mm	101/101	-	83	83
	F50_2	-	1	4x HBS+/GHS+ ø8x60mm	121/121	-	83	83
	F50_3	-	1	4x HBS+/GHS+ ø8x60mm	141/141	-	83	83
	F50_4	-	1	4x HBS+/GHS+ ø8x60mm	161/161	-	108	108
	F50_5	-	1	4x HBS+/GHS+ ø8x60mm	181/181	-	108	108
	F50_6	-	1	4x HBS+/GHS+ ø8x60mm	201/201	-	108	108
F60	F60_1	-	1	4x HBS+/GHS+ ø8x60mm	121/120	-	119	84
	F60_2	-	1	4x HBS+/GHS+ ø8x60mm	141/140	-	119	84
	F60_3	-	1	4x HBS+/GHS+ ø8x60mm	161/160	-	119	109
	F60_4	-	1	4x HBS+/GHS+ ø8x60mm	201/200	-	119	109
	F60_5	-	1	4x HBS+/GHS+ ø8x60mm	161/160	-	119	84
	F60_6	-	1	4x HBS+/GHS+ ø8x60mm	201/200	-	119	84
F70[1)]	F70_1	F70_1-4SBD 75_100	1	4x SBD ø7,5x75mm	100/100 [3)]	21[2)]	136	33
		F70_1-2STA80/ BOLT120_100	1	2x SD ø12,0x80mm or 2x Bo M12x120mm	100/100 [3)]	21[2)]	136	33
	F70_2	F70_2-6SBD 95_120	1	6x SBD ø7,5x95mm	120/120 [4)]	21[2)]	146	38
		F70_2-4STA120/ BOLT160_140	1	4x SD ø12,0x120mm or 4x Bo M12x160mm	140/140 [5)]	21[2)]	146	38
	F70_3	F70_3-8SBD 115_160	1	8x SBD ø7,5x115mm	160/160 [6)]	23[2)]	203	43
		F70_3-6STA140/ BOLT180_160	1	6x SD ø12,0x140mm or 6x Bo M12x180mm	160/160 [6)]	23[2)]	210	43
FD10	FD10_1	-	2	4x HBS+/GHS+ ø8x60mm	121/120	-	108	40
	FD10_2	-	2	4x HBS+/GHS+ ø8x60mm	141/131	-	108	40
	FD10_3	-	2	4x HBS+/GHS+ ø8x60mm	161/151	-	108	40
	FD10_4	-	2	4x HBS+/GHS+ ø8x60mm	181/171	-	108	40
	FD10_5	-	2	4x HBS+/GHS+ ø8x60mm	201/191	-	108	40
FD20	FD20_1	-	2	4x HBS+/GHS+ ø8x60mm	121/76	-	94	41
	FD20_2	-	2	4x HBS+/GHS+ ø8x60mm	141/92	-	94	41
	FD20_3	-	2	4x HBS+/GHS+ ø8x60mm	161/106	-	94	41
	FD20_4	-	2	4x HBS+/GHS+ ø8x60mm	201/140	-	94	41
FD30	FD30_1	-	2	4x HBS+/GHS+ ø8x40mm	80/120	-	-	38
	FD30_2	-	2	4x HBS+/GHS+ ø8x40mm	80/120	-	-	38
FD30 internal	FD30_1	-	2	2x Bo M10mm	80/120	-	-	38
	FD30_2	-	2	2x Bo M10mm	80/120	-	-	38

Post base			Quantity	Metal Fasteners	Post [mm]	Distances [mm]		
Type	**Art.-No.**	**Configuration**			**min b/h**	**max. a**	**$e_{F2/F3}$**	**$e_{F4/F5}$**
FD40	FD40_1	-	2	4x HBS+/GHS+ ø8x40mm	80/120	-	-	46
	FD40_2	-	2	4x HBS+/GHS+ ø8x40mm	80/120	-	-	46
FD40 internal	FD40_1	-	2	2x Bo M10mm	80/120	-	-	43
	FD40_2	-	2	2x Bo M10mm	80/120	-	-	43
FD50	FD50_1	-	2 / 4	4x HBS+/GHS+ ø8x60mm	82/82	-	-	-
	FD50_2	-	2 / 4	4x HBS+/GHS+ ø8x60mm	127/127	-	90	90
FD60	FD60_1	-	2 / 4	4x HBS+/GHS+ ø8x60mm	82/82	-	-	-
	FD60_2	-	2 / 4	4x HBS+/GHS+ ø8x60mm	112/112	-	89	89
M10	M10_1	-	1	4x HBS+/GHS+ ø8x40mm	71/71	-	45	14
	M10_2	-	1	2x HBS+/GHS+ ø8x60mm	91/91	-	45	14
M20	M20_1	-	1	5x HBS+/GHS+ ø8x60mm	71/114	-	139	72
	M20_2	-	1	5x HBS+/GHS+ ø8x60mm	91/114	-	139	72
	M20_3	-	1	5x HBS+/GHS+ ø8x60mm	101/114	-	139	72
	M20_4	-	1	6x HBS+/GHS+ ø8x60mm	121/114	-	139	72
M30	M30_1	-	1	2x HBS+/GHS+ ø8x60mm	71/80	-	185	30
	M30_2	-	1	4x HBS+/GHS+ ø8x40mm	81/80	-	185	30
	M30_3	-	1	4x HBS+/GHS+ ø8x40mm	91/80	-	185	30
	M30_4	-	1	4x HBS+/GHS+ ø8x40mm	101/80	-	185	30
	M30_5	-	1	4x HBS+/GHS+ ø8x60mm	121/80	-	185	30
M50	M50_1	-	1	5x HBS+/GHS+ ø8x60mm	71/114	100	235	77
	M50_2	-	1	5x HBS+/GHS+ ø8x60mm	91/114	100	235	77
	M50_3	-	1	5x HBS+/GHS+ ø8x60mm	101/114	100	235	77
	M50_4	-	1	6x HBS+/GHS+ ø8x60mm	121/114	100	235	77
M60	M60_1	-	1	4x Bo M10mm	80/120	100	218	30
M70	M70_1	-	1	2x HBS+/GHS+ ø8x60mm	71/71	-	-	-
	M70_2	-	1	4x HBS+/GHS+ ø8x40mm	91/91	-	-	-
	M70_3	-	1	4x HBS+/GHS+ ø8x40mm	ø81	-	-	-
	M70_4	-	1	4x HBS+/GHS+ ø8x40mm	ø101	-	-	-
P10 [10)]	P10_1	-	1	4x HBS+/GHS+ ø8x80mm	100/100 ø100	150	-	-
	P10_2	-	1	4x HBS+/GHS+ ø8x80mm	100/100 ø100	250	-	-
	P10_1 Alt	-	1	4x HBS+/GHS+ ø8x80mm	100/100 ø100	150	-	-
	P10_2 Alt	-	1	4x HBS+/GHS+ ø8x80mm	100/100 ø100	250	-	-
P20 [10)]	P20_1	-	1	4x HBS+/GHS+ ø8x80mm	100/100	218	-	-
	P20_2	-	1	4x HBS+/GHS+ ø8x80mm	100/100	318	-	-
R10	R10_1	-	1	4x HBS+/GHS+ ø6x90mm	80/80	136	-	-
	R10_2	-	1	4x HBS+/GHS+ ø8x100mm	100/100	209	-	-
	R10_3	-	1	4x HBS+/GHS+ ø8x100mm	140/140	257	-	-
R20	R20_1	-	1	4x HBS+/GHS+ ø6x90mm	80/80	136	-	-
	R20_2	-	1	4x HBS+/GHS+ ø8x100mm	100/100	209	-	-
	R20_3	-	1	4x HBS+/GHS+ ø8x100mm	140/140	257	-	-
R30	R30_1	-	1	8x full thread ø6x60mm	120/120	155	-	-
	R30_2	-	1	16x full thread ø6x90mm	160/160	215	-	-
	R30_1	with Disc Flat 80	1	10 x full thread screws ø7x60mm	120	150	-	-
	R30_2	with Disc Flat 120	1	18 x full thread screws ø7x80mm	160	210	-	-

Post base			Quantity	Metal Fasteners	Post [mm]	Distances [mm]		
Type	**Art.-No.**	**Configuration**			**min b/h**	**max. a**	**$e_{F2/F3}$**	**$e_{F4/F5}$**
	R30_1	with Disc Flat Stainless 80	1	10 x partial thread screws ø6x80mm	150	150	-	-
	R30_2	with Disc Flat Stainless 120	1	18 x partial thread screws ø6x80mm	160	210	-	-
R40	R40_1	-	1	4x HBS+/GHS+ ø8x60mm	70/70	105	-	-
	R40_2	-	1	4x HBS+/GHS+ ø8x60mm	80/80	97	-	-
	R40_3	-	1	4x HBS+/GHS+ ø8x60mm	100/100	150	-	-
	R40_4	-	1	4x HBS+/GHS+ ø8x60mm	100/100	250	-	-
R50	R50_1	-	1	2x HBS+/GHS+ ø8x60mm	100/100	277	-	-
	R50_2	-	1	2x HBS+/GHS+ ø8x60mm	100/100	202	-	-
R60	R60_1	-	1	4x HBS+/GHS+ ø8x60mm	100/100	194	-	-
R70	R70_1	-	1	4x HBS+/GHS+ ø8x60mm	100/100	100	-	-
	R70_2	-	1	4x HBS+/GHS+ ø8x60mm	140/140	100	-	-
	R70_3	-	1	4x HBS+/GHS+ ø8x60mm	100/100	100	-	-
R80	R80_1	R80_1	1	2-4x HBS+/GHS+ ø8x60mm	80/80	195	-	-
R90	R90_1	R90_1	1	4x HBS+/GHS+ ø8x60mm	100/100	164	-	-
S10	S10_1	S10_1	1	4x HBS+/GHS+ ø8x60mm	ø140	118	-	-
	S10_2	S10_2	1	4x HBS+/GHS+ ø8x60mm	ø140	153	-	-
S20	S20_1	S20_1	1	2x HBS+/GHS+ ø8x60mm	100/100	118	-	-
	S20_2	S20_2	1	2x HBS+/GHS+ ø8x60mm	100/100	153	-	-
S30	S30_1	S30_1	1	4x HBS+/GHS+ ø8x60mm	100/100	166	-	-
	S30_2	S30_2	1	4x HBS+/GHS+ ø8x60mm	140/140	168	-	-
	S30_3	S30_3	1	4x HBS+/GHS+ ø8x60mm	100/100	166	-	-
	S30_4	S30_4	1	4x HBS+/GHS+ ø8x60mm	140/140	168	-	-
S40	S40_1	S40_1	1	5x HBS+/GHS+ ø8x60mm	71/98	-	86	-
	S40_2	S40_2	1	5x HBS+/GHS+ ø8x60mm	91/98	-	86	-
S50	S50_1	-	1	4x HBS+/GHS+ ø8x80mm	120x120	132	-	-
	S50_2	-	1	4x HBS+/GHS+ ø8x80mm	120x120	192	-	-
	S50_3	-	1	4x HBS+/GHS+ ø8x80mm	160x160	196	-	-
	S50_4	-	1	4x HBS+/GHS+ ø8x80mm	160x160	256	-	-
	S50_1 Alt	-	1	4x HBS+/GHS+ ø8x80mm	120x120	132	-	-
	S50_2 Alt	-	1	4x HBS+/GHS+ ø8x80mm	120x120	192	-	-
	S50_3 Alt	-	1	4x HBS+/GHS+ ø8x80mm	160x160	196	-	-
	S50_4_Alt	-	1	4x HBS+/GHS+ ø8x80mm	160x160	256	-	-
FI10	FI10_1	-	1	2x HBS+/GHS+ ø8x60mm	71/71	-	107	77
	FI10_2	-	1	2x HBS+/GHS+ ø8x60mm	91/91	-	107	77
FI50	FI50_1	-	1	4x HBS+/GHS+ ø8x60mm	101/101	-	83	83
	FI50_2	-	1	4x HBS+/GHS+ ø8x60mm	121/121	-	83	83
	FI50_3	-	1	4x HBS+/GHS+ ø8x60mm	141/141	-	83	83
	FI50_4	-	1	4x HBS+/GHS+ ø8x60mm	161/161	-	108	108
	FI50_6	-	1	4x HBS+/GHS+ ø8x60mm	201/201	-	108	108
RI40	RI40_3	-	1	4x HBS+/GHS+ ø8x60mm	100/100	150	-	-
	RI40_4	-	1	4x HBS+/GHS+ ø8x60mm	100/100	250	-	-
MI20	MI20_1	-	1	5x HBS+/GHS+ ø8x60mm	71/114	-	139	72
	MI20_2	-	1	5x HBS+/GHS+ ø8x60mm	91/114	-	139	72
	MI20_3	-	1	5x HBS+/GHS+ ø8x60mm	101/114	-	139	72
	MI20_4	-	1	6x HBS+/GHS+ ø8x60mm	121/114	-	139	72
XS10	XS10_1	XS10_1-16SBD 115_160	1	16x SBD ø7,5x115mm	160x160 [8)]	40	250	250

Post base			Quantity	Metal Fasteners	Post [mm]	Distances [mm]		
Type	**Art.-No.**	**Configuration**			**min b/h**	**max. a**	**$e_{F2/F3}$**	**$e_{F4/F5}$**
		XS10_1-16SBD 95_140	1	16x SBD ø7,5x95mm	140x140 [7]	40	232	232
		XS10_1-16SBD 115_140	1	16x SBD ø7,5x115mm	140x140 [7]	40	232	232
		XS10_1-16SBD 135_160	1	16x SBD ø7,5x135mm	160x160 [8]	40	232	232
		XS10_1-8STA120_160	1	8x SD ø12,0x120mm	160x160 [8]	40	230	230
	XS10_2	XS10_2-16SBD 115_160	1	16x SBD ø7,5x115mm	160x160 [8]	42	252	252
		XS10_2-16SBD 115_160 Alt	1	16x SBD ø7,5x115mm	160x160 [8]	42	235	235
		XS10_2-16SBD 135_160	1	16x SBD ø7,5x135mm	160x160 [8]	42	235	235
		XS10_2-16SBD 155_200	1	16x SBD ø7,5x155mm	200x200 [9]	42	235	235
		XS10_2-8STA120_160	1	8x SD ø12,0x120mm	160x160 [8]	42	227	227
		XS10_2-12STA 120_160	1	12x SD ø12,0x120mm	160x160 [8]	42	227	227
		XS10_2-8STA120_200	1	8x SD ø12,0x120mm	200x200 [9]	42	227	227
		XS10_2-12STA 160_200	1	12x SD ø12,0x120mm	200x200 [9]	42	227	227

[1] Pre-holes on the inner steel plate are optional (in case of bolts or dowels)
[2] Maximum distance between the top edge of the foundation and the end grain of the post.
[3] Tensile reinforcement perpendicular to the grain, loaded by force $F_{4/5}$: 2x fully threaded screws ø7.0x100mm and above the inner steel plate
[4] Tensile reinforcement perpendicular to the grain, loaded by force $F_{4/5}$: 2x fully threaded screws ø7.0x120mm and above the inner steel plate
[5] Tensile reinforcement perpendicular to the grain, loaded by force $F_{4/5}$: 2x fully threaded screws ø7.0x140mm and above the inner steel plate
[6] Tensile reinforcement perpendicular to the grain, loaded by force $F_{4/5}$: 2x fully threaded screws ø7.0x160mm and above the inner steel plate
[7] Tensile reinforcement perpendicular to the grain, loaded by force $F_{2/3}$ or $F_{4/5}$ or moment $M_{2/3}$ or $M_{4/5}$: 4x fully threaded screws ø7.0x140mm; 2x fully threaded screws installed parallel to the each load direction and above the inner steel plate
[8] Tensile reinforcement perpendicular to the grain loaded by force $F_{2/3}$ or $F_{4/5}$ or moment $M_{2/3}$ or $M_{4/5}$: 4x fully threaded screws ø7.0x160mm; 2x fully threaded screws installed parallel to the each load direction and above the inner steel plate
[9] Tensile reinforcement perpendicular to the grain loaded by force $F_{2/3}$ or $F_{4/5}$ or moment $M_{2/3}$ or $M_{4/5}$: 4x fully threaded screws ø7.0x200mm; 2x fully threaded screws installed parallel to the each load direction and above the inner steel plate
[10] Encased in concrete

Table A.2: Specifications of the metal fasteners according to EN 14592 or ETA

Fastener type	Size (mm)			Material	Finish
	Diameter	Length	Thickness		
Screws HBS+/GHS+	8 mm	40/60/80/ 100 mm		ETA-11/0030	Galvanic zinc coating
Screws HBS+/GHS+	6 mm	90 mm		ETA-11/0030	Galvanic zinc coating
Fully threaded screws	6 mm	60/90 mm		ETA-11/0030	Galvanic zinc coating
Partially threaded screws	6 mm	80 mm		ETA-11/0030 or EN 14592	Stainless steel
Fully threaded screws	7 mm	60-80 mm		ETA-11/0030 or EN 14592	Galvanic zinc coating
Fully threaded screws	7 mm	100/120/140/160/200 mm		ETA-11/0030	Galvanic zinc coating
Bolts	10/12 mm			Min 4.6 according to EN ISO 4016 or EN ISO 4017 or EN ISO 4018 or EN ISO 898 or EN 14592	Galvanic zinc coating
Dowels	12 mm			S235 according to EN 10025-2 and EN 14592	Galvanic zinc coating
Self-tapping dowels SBD	7.5 mm			$f_{u,k} \geq 742$ N/mm², $M_{y,Rk} = 42.000$ Nmm according to specification of the manufacturer and EN 14592	Galvanic zinc coating
Washers	30/36 mm		3,0/3,6 mm	according to EN ISO 7091 or EN ISO 7093 or EN ISO 7094	Galvanic zinc coating
The load-carrying-capacities of the metal fasteners were calculated according to Eurocode 5 for lateral loads. The contribution to the load-carrying capacity due to the rope effect was considered according to Eurocode 5.					

Annex B
Characteristic load-carrying capacities

Table B.1: Characteristic load-carrying capacities (forces) for post bases in kN

Post base			$F_{1,c,Rk}$ (Compression)			$F_{1,t,Rk}$ (Tension)			$F_{2/3,Rk}$ (Horizontal)				$F_{4/5,Rk}$ (Horizontal)			
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
F10	F10_1	-	50,8	-	-	6,2	4,3	-	5,0	-	4,5	-	7,6	-	9,5	-
	F10_2	-	84,8	-	-	8,2	3,8	-	9,9	-	4,7	-	13,3	-	10,2	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
F20	F20_1	-	17,2	-	-	7,4	4,1	-	6,5	-	2,4	-	8,1	-	3,1	-
	F20_2	-	62,5	-	-	7,4	8,8	-	3,2	-	6,6	-	12,8	-	8,4	-
	F20_3	-	99,1	-	-	11,0	10,0	-	9,9	-	8,9	-	18,4	-	11,4	-
	F20_4	-	142	-	-	11,0	11,1	-	9,9	-	11,5	-	25,3	-	14,7	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
F30	F30_1	-	50,8	-	-	7,1	6,5	-	7,6	-	2,9	-	7,6	-	2,9	-
	F30_2	-	84,8	-	-	9,5	13,0	-	7,6	-	2,9	-	7,6	-	2,9	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
F40	F40_1	-	50,8	-	-	7,1	7,7	-	7,6	-	5,4	-	7,6	-	5,4	-
	F40_2	-	84,8	-	-	9,5	21,8	-	13,3	-	7,9	-	13,3	-	7,9	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
F50	F50_1	-	29,4	29,1	-	7,1	-	-	17,2	-	9,0	-	17,2	-	9,0	-
	F50_2	-	33,6	33,3	-	7,1	11,5	-	17,2	-	8,7	-	17,2	-	8,7	-
	F50_3	-	42,0	41,6	-	7,1	-	-	17,2	-	11,9	-	17,2	-	11,9	-
	F50_4	-	42,0	41,6	-	7,1	13,8	-	20,4	-	10,6	-	20,4	-	10,6	-
	F50_5	-	42,0	41,6	-	7,1	16,1	-	20,4	-	13,9	-	20,4	-	13,9	-
	F50_6	-	46,2	45,7	-	7,1	17,3	-	21,0	-	14,4	-	21,0	-	14,4	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
F60	F60_1	-	33,6	32,7	-	7,0	34,2	-	17,3	-	11,7	-	8,7	-	-	6,8
	F60_2	-	37,8	36,8	-	7,0	37,6	-	20,6	-	15,0	-	10,2	-	-	6,8
	F60_3	-	42,0	40,8	-	7,0	41,0	-	22,6	-	16,5	-	11,3	-	15,2	-
	F60_4	-	54,6	53,1	-	7,0	24,1	-	22,6	-	16,5	-	11,3	-	13,0	-
	F60_5	-	42,0	40,8	-	7,0	41,0	-	32,9	-	23,3	-	11,3	-	-	15,6
	F60_6	-	54,6	54,4	-	7,0	24,1	-	32,9	-	23,3	-	11,3	-	18,4	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	$\gamma_{M,2}$
F70	F70_1	F70_1-4SBD75_100	29,6	-	32,7	17,9	18,3	-	13,3	14,0	3,44	-	1,79	-	2,49	-
		F70_1-2STA80/ BOLT120_100	21,1	-	32,7	14,3	18,3	-	13,2	10,9	3,44	-	1,86	-	2,49	-
	F70_2	F70_2-6SBD95_120	52,6	-	67,8	52,6	15,7	-	18,2	45,0	3,83	-	2,02	-	6,12	-
		F70_2-4STA120/ BOLT160_140	55,7	-	67,8	55,7	15,7	-	25,5	50,5	3,83	-	2,95	-	6,12	-
	F70_3	F70_3-8SBD115_160	87,7	-	103	87,7	25,7	-	36,3	65,2	6,45	-	3,07	-	13,5	-
		F70_3-6STA140/ BOLT180_160	104	-	103	104	25,7	-	34,0	82,1	6,24	-	2,88	-	13,5	-
		-	$\gamma_{M,C}$	-	$\gamma_{M,1}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD10	FD10_1	-	33,6	33,5	-	7,1	4,7	-	20,9	-	2,6	-	10,2	-	10,4	-
	FD10_2	-	37,8	37,6	-	7,1	5,0	-	24,4	-	3,3	-	11,5	-	11,4	-

Post base			$F_{1,c,Rk}$ (Compression)			$F_{1,t,Rk}$ (Tension)			$F_{2/3,Rk}$ (Horizontal)				$F_{4/5,Rk}$ (Horizontal)			
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
	FD10_3	-	42,0	41,8	-	7,1	5,6	-	24,4	-	4,1	-	12,7	-	12,5	-
	FD10_4	-	46,2	46,0	-	7,1	6,1	-	24,4	-	5,0	-	14,0	-	13,5	-
	FD10_5	-	54,6	54,4	-	7,1	6,0	-	24,4	-	6,0	-	15,3	-	14,0	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD20	FD20_1	-	33,6	33,5	-	7,0	11,8	-	22,9	-	3,7	-	16,1	-	19,4	-
	FD20_2	-	37,8	37,6	-	7,0	13,3	-	31,6	-	4,7	-	17,7	-	21,4	-
	FD20_3	-	42,0	41,8	-	7,0	14,6	-	32,9	-	5,9	-	19,3	-	23,3	-
	FD20_4	-	54,6	54,4	-	7,0	17,0	-	27,5	-	2,6	-	17,0	-	27,2	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD30	FD30_1	-	77,6	71,9	-	7,0	4,7	-	-	-	-	-	9,3	-	3,2	-
	FD30_2	-	115	95,9	-	7,3	3,6	-	-	-	-	-	9,0	-	4,0	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD30 internal	FD30_1	-	77,6	12,5	-	13,5	4,7	-	-	-	-	-	2,1	-	3,2	-
	FD30_2	-	115	16,7	-	13,5	3,6	-	-	-	-	-	2,6	-	4,0	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD40	FD40_1	-	7,0	6,3	-	4,5	6,3	-	-	-	-	-	8,2	-	5,0	-
	FD40_2	-	7,3	8,4	-	9,0	8,4	-	-	-	-	-	8,6	-	6,5	-
		-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD40 internal	FD40_1	-	19,8	12,5	-	13,5	6,3	-	-	-	-	-	2,1	-	5,1	-
	FD40_2	-	20,7	16,7	-	13,5	8,4	-	-	-	-	-	2,6	-	5,2	-
		-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FD50[1)]	FD50_1	-	69,4	-	-	-	-	-	-	-	-	-	-	-	-	-
	FD50_2	-	203	-	-	7,8	10,0	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-
FD60[2)]	FD60_1	-	75,6	-	-	-	-	-	-	-	-	-	-	-	-	-
	FD60_2	-	263	-	-	7,8	17,7	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-
M10	M10_1	-	6,1	14,0	-	3,5	10,0	-	7,6	-	5,9	-	7,6	-	-	5,8
	M10_2	-	12,2	14,4	-	7,1	11,5	-	13,0	-	5,9	-	13,0	-	-	5,4
		-	$\gamma_{M,C}$	$\gamma_{M,1}$	-	$\gamma_{M,C}$	$\gamma_{M,1}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	-	$\gamma_{M,2}$
M20	M20_1	-	7,4	-	8,1	7,4	7,8	8,1	5,5	-	1,5	-	8,2	-	3,0	-
	M20_2	-	7,4	-	8,1	7,4	5,4	8,1	5,5	-	1,5	-	8,2	-	3,0	-
	M20_3	-	7,4	-	8,1	7,4	4,7	8,1	5,5	-	1,5	-	8,2	-	3,0	-
	M20_4	-	7,4	-	8,1	7,4	3,8	8,1	5,5	-	1,5	-	8,2	-	3,0	-
		-	$\gamma_{M,C}$	-	$\gamma_{M,2}$	$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-
M30	M30_1	-	89,2	-	-	3,7	12,9	-	2,7	-	1,2	-	8,5	-	5,9	-
	M30_2	-	101	-	-	5,1	21,8	-	3,7	-	1,2	-	9,7	-	5,6	-
	M30_3	-	114	-	-	5,1	21,8	-	3,7	-	1,2	-	10,9	-	5,6	-
	M30_4	-	127	-	-	5,1	21,8	-	3,7	-	1,2	-	12,1	-	5,6	-
	M30_5	-	152	-	-	7,4	21,8	-	5,5	-	1,2	-	14,0	-	5,9	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
M50	M50_1	-	7,4	7,8	8,5	7,8	7,8	-	5,5	-	1,8	2,7	8,6	-	3,3	-
	M50_2	-	7,4	5,5	8,5	7,8	5,5	-	5,5	-	1,8	2,7	8,6	-	3,3	-

Post base			$F_{1,c,Rk}$ (Compression)			$F_{1,t,Rk}$ (Tension)			$F_{2/3,Rk}$ (Horizontal)				$F_{4/5,Rk}$ (Horizontal)			
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
	M50_3	-	7,4	4,8	8,5	7,8	4,8	-	5,5	-	1,6	2,7	8,6	-	3,3	-
	M50_4	-	7,4	3,8	8,5	7,8	3,8	-	5,5	-	1,2	2,7	8,6	-	3,3	-
		-	$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-
M60	M60_1	-	51,0	55,1	-	26,4	-	65,3	11,8	-	2,8	3,6	2,2	-	5,7	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,2}$	$\gamma_{M,T}$	-	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-

Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**	**Foun.**	**Timber**	**Steel**	**Foun.**	**Timber**		**Steel**	**Foun.**	**Timber**		**Steel**	**Foun.**
M70	M70_1	-	6,1	12,1	1,6	-	-	-	7,6	-	7,6	5,2	7,6	-	7,6	5,2
	M70_2	-	8,6	9,4	3,0	-	-	-	10,1	-	6,7	9,9	10,1	-	6,7	9,9
	M70_3	-	8,1	-	2,3	-	-	-	8,1	-	6,5	3,3	8,1	-	6,5	3,3
	M70_4	-	8,1	-	3,1	-	-	-	10,3	-	6,9	3,8	10,3	-	6,9	3,8
		-	$\gamma_{M,C}$	$\gamma_{M,2}$	$\gamma_{R,v}$	-	-	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	$\gamma_{R,c}$	$\gamma_{M,T}$	-	$\gamma_{M,0}$	$\gamma_{R,c}$

Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
P10	P10_1	-	109	125	107	-	-	-	-	-	-	-	-	-	-	-
	P10_2	-	109	125	99,3	-	-	-	-	-	-	-	-	-	-	-
	P10_1 Alt	-	98,6	78,7	107	-	-	-	-	-	-	-	-	-	-	-
	P10_2 Alt	-	98,6	78,7	99,3	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
P20	P20_1	-	93,7	59,5	106	-	-	-	-	-	-	-	-	-	-	-
	P20_2	-	93,7	59,5	106	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R10	R10_1	-	71,2	-	48,3	-	-	-	-	-	-	-	-	-	-	-
	R10_2	-	111	-	75,4	-	-	-	-	-	-	-	-	-	-	-
	R10_3	-	222	-	108	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	-	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R20	R20_1	-	55,8	-	48,3	-	-	-	-	-	-	-	-	-	-	-
	R20_2	-	90,4	-	75,4	-	-	-	-	-	-	-	-	-	-	-
	R20_3	-	189	-	108	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	-	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R30	R30_1	-	-	-	48,3	18,7	24,3	-	-	-	-	-	-	-	-	-
	R30_2	-	-	-	75,4	62,4	36,4	-	-	-	-	-	-	-	-	-
	R30_1	With Disc Flat 80	-	-	48,3	24,2	24,3	-	-	-	-	-	-	-	-	-
	R30_2	With Disc Flat 120	-	-	75,4	65,5	36,4	-	-	-	-	-	-	-	-	-
	R30_1	With stainless Disc Flat 80	-	-	48,3	22,0	24,3	-	-	-	-	-	-	-	-	-
	R30_2	With stainless Disc Flat 120	-	-	75,4	41,8	36,4	-	-	-	-	-	-	-	-	-
		-	-	-	$\gamma_{M,1}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-
R40	R40_1	-	50,7	23,3	39,6	-	-	-	-	-	-	-	-	-	-	-
	R40_2	-	64,0	38,1	100	-	-	-	-	-	-	-	-	-	-	-
	R40_3	-	99,9	41,9	57,1	-	-	-	-	-	-	-	-	-	-	-
	R40_4	-	100	50,7	65,3	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-

Post base			$F_{1,c,Rk}$ (Compression)			$F_{1,t,Rk}$ (Tension)			$F_{2/3,Rk}$ (Horizontal)				$F_{4/5,Rk}$ (Horizontal)			
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
R50	R50_1	-	56,5	50,7	88,7	-	-	-	-	-	-	-	-	-	-	-
	R50_2	-	56,5	50,7	92,0	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R60	R60_1	-	117	66,9	92,9	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R70	R70_1	-	108	66,9	66,4	-	-	-	-	-	-	-	-	-	-	-
	R70_2	-	210	79,5	99,8	-	-	-	-	-	-	-	-	-	-	-
	R70_3	-	106	54,0	39,6	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R80	R80_1	-	125	69,7	107	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
R90	R90_1	-	71,6	42,6	39,7	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
S10	S10_1	-	88,3	49,2	-	-	-	-	-	-	-	-	-	-	-	-
	S10_2	-	88,3	49,2	-	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-	-	-	-
S20	S20_1	-	88,3	49,2	-	-	-	-	-	-	-	-	-	-	-	-
	S20_2	-	88,3	49,2	-	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-	-	-	-
S30	S30_1	-	104	100	-	-	-	-	-	-	-	-	-	-	-	-
	S30_2	-	214	212	-	-	-	-	-	-	-	-	-	-	-	-
	S30_3	-	104	100	-	-	-	-	-	-	-	-	-	-	-	-
	S30_4	-	214	212	-	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	-	-	-	-	-	-	-	-	-	-	-

Type	**Dimension**	**Angle**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
S40	S40_1	0°	7,4	6,6	8,5	7,4	6,6	8,5	5,5	-	2,1	5,5	-	-	-	-
		15°	7,4	3,5	8,1	7,4	3,5	8,1	5,5	-	1,9	5,0	-	-	-	-
		30°	7,4	2,5	6,1	7,4	2,5	6,1	5,5	-	1,9	4,9	-	-	-	-
		45°	7,4	2,1	5,2	7,4	2,1	5,2	5,5	-	2,1	5,2	-	-	-	-
		60°	7,4	1,9	4,9	7,4	1,9	4,9	5,5	-	2,5	6,1	-	-	-	-
	S40_2	0°	7,4	6,6	8,5	7,4	6,6	8,5	5,5	-	2,1	5,5	-	-	-	-
		15°	7,4	3,5	8,1	7,4	3,5	8,1	5,5	-	1,9	5,0	-	-	-	-
		30°	7,4	2,5	6,1	7,4	2,5	6,1	5,5	-	1,9	4,9	-	-	-	-
		45°	7,4	2,1	5,2	7,4	2,1	5,2	5,5	-	2,1	5,2	-	-	-	-
		60°	7,4	1,9	4,9	7,4	1,9	4,9	5,5	-	2,5	6,1	-	-	-	-
			$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,2}$	$\gamma_{M,C}$	-	$\gamma_{M,0}$	$\gamma_{M,2}$	-	-	-	-

Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
S50	S50_1	-	200	157	277	-	-	-	-	-	-	-	-	-	-	-
	S50_2	-	200	157	277	-	-	-	-	-	-	-	-	-	-	-
	S50_3	-	334	268	351	-	-	-	-	-	-	-	-	-	-	-
	S50_4	-	334	268	351	-	-	-	-	-	-	-	-	-	-	-

Post base			$F_{1,c,Rk}$ (Compression)			$F_{1,t,Rk}$ (Tension)			$F_{2/3,Rk}$ (Horizontal)				$F_{4/5,Rk}$ (Horizontal)			
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**		**Timber**	**Steel**		**Timber**		**Steel**		**Timber**		**Steel**	
	S50_1 Alt	-	193	127	277	-	-	-	-	-	-	-	-	-	-	-
	S50_2 Alt	-	193	127	277	-	-	-	-	-	-	-	-	-	-	-
	S50_3 Alt	-	324	247	351	-	-	-	-	-	-	-	-	-	-	-
	S50_4 Alt	-	324	247	351	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
FI10	FI10_1	-	50,8	-	-	3,5	3,5	-	5,0	-	3,0	-	7,6	-	7,7	-
	FI10_2	-	84,8	-	-	3,5	3,1	-	5,0	-	3,7	-	13,0	-	9,1	-
		-	$\gamma_{M,T}$	-	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
FI50	FI50_1	-	29,4	24,0	-	-	-	-	15,5	-	7,3	-	15,5	-	7,3	-
	FI50_2	-	33,6	26,7	-	7,2	9,3	-	15,5	-	7,0	-	15,5	-	7,0	-
	FI50_3	-	42,0	33,3	-	7,2	-	-	15,5	-	10,7	-	15,5	-	10,7	-
	FI50_4	-	42,0	33,3	-	7,2	11,2	-	18,4	-	8,6	-	18,4	-	8,6	-
	FI50_6	-	46,2	36,7	-	7,2	14,0	-	18,9	-	13,0	-	18,9	-	13,0	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-	$\gamma_{M,T}$	-	$\gamma_{M,0}$	-
RI40	RI40_3	-	99,9	38,8	47,8	-	-	-	-	-	-	-	-	-	-	-
	RI40_4	-	100	47,1	57,0	-	-	-	-	-	-	-	-	-	-	-
		-	$\gamma_{M,T}$	$\gamma_{M,0}$	$\gamma_{M,1}$	-	-	-	-	-	-	-	-	-	-	-
MI20	MI20_1	-	7,4	-	11,2	7,4	6,3	-	5,5	-	1,2	-	8,2	-	2,4	-
	MI20_2	-	7,4	-	8,1	7,4	4,4	-	5,5	-	1,2	-	8,2	-	2,4	-
	MI20_3	-	7,4	-	8,1	7,4	3,8	-	5,5	-	1,2	-	8,2	-	2,4	-
	MI20_4	-	7,4	-	8,1	7,4	3,0	-	5,5	-	1,2	-	8,2	-	2,4	-
		-	$\gamma_{M,C}$	-	$\gamma_{M,2}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-	$\gamma_{M,C}$	-	$\gamma_{M,0}$	-
XS10	XS10_1	XS10_1-16SBD115_160	122	-	225	87,8	32,6	-	32,9	34,7	3,68	-	32,9	34,7	3,68	-
		XS10_1-16SBD95_140	118	-	225	96,9	32,6	-	45,0	25,7	3,97	-	45,0	25,7	3,97	-
		XS10_1-16SBD115_140	133	-	225	109	32,6	-	49,3	25,7	3,97	-	49,3	25,7	3,97	-
		XS10_1-16SBD135_160	149	-	225	122	32,6	-	54,3	34,7	3,97	-	54,3	34,7	3,97	-
		XS10_1-8STA120_160	125	-	225	125	32,6	-	23,8	16,2	4,01	-	23,8	16,2	4,01	-
	XS10_2	XS10_2-16SBD115_160	116	-	464	86,7	59,0	-	32,6	33,8	7,45	-	32,6	33,8	7,45	-
		XS10_2-16SBD115_160 Alt	175	-	464	132	59,0	-	48,9	33,8	7,99	-	48,9	33,8	7,99	-
		XS10_2-16SBD135_160	197	-	464	148	59,0	-	53,8	33,8	7,99	-	53,8	33,8	7,99	-
		XS10_2-16SBD155_200	213	-	464	160	59,0	-	59,2	55,4	7,99	-	59,2	55,4	7,99	-
		XS10_2-8STA120_160	112	-	464	112	59,0	-	22,8	15,8	8,29	-	22,8	15,8	8,29	-
		XS10_2-12STA120_160	151	-	464	151	59,0	-	150	27,3	8,29	-	150	27,3	8,29	-
		XS10_2-8STA120_200	124	-	464	124	59,0	-	50,0	51,3	8,29	-	50,0	51,3	8,29	-
		XS10_2-12STA160_200	182	-	464	182	59,0	-	180	51,3	8,29	-	180	51,3	8,29	-
			$\gamma_{M,C}$	-	$\gamma_{M,1}$	$\gamma_{M,C}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,T}$	$\gamma_{M,0}$	-	$\gamma_{M,C}$	$\gamma_{M,T}$	$\gamma_{M,0}$	-

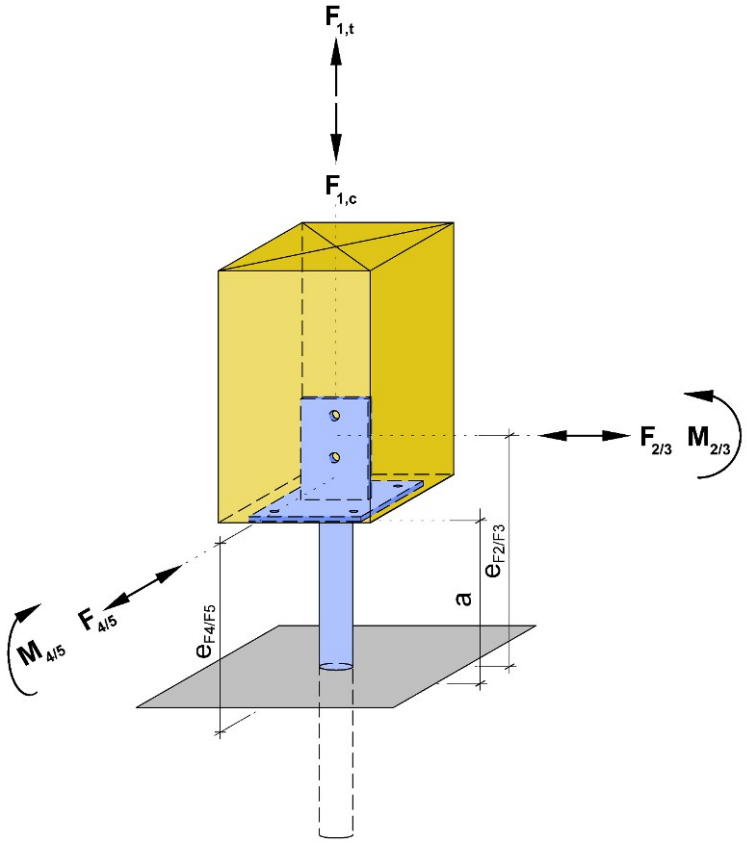
[1)] When 4 angle brackets are used, the characteristic load-carrying capacities may be increased by a factor of 2,0.

[2)] When 4 angle brackets are used, the characteristic load-carrying capacities for F_1 (Tension), F_{23} and F_{45} may be increased by a factor of 2,0.

Table B.1: Characteristic load-carrying capacities (moments) for post bases in kNm

Post base			$M_{2/3,Rk}$ (Moment)		$M_{4/5,Rk}$ (Moment)	
Type	**Art.-No.**	**Configuration**	**Timber**	**Steel**	**Timber**	**Steel**
F70	F70_1	F70_1-4SBD75_100	0,36	0,46	-	-
		F70_1-2STA80/ BOLT120_100	-	-	-	-
	F70_2	F70_2-6SBD95_120	1,98	0,55	-	-
		F70_2-4STA120/ BOLT160_140	2,46	0,55	-	-
	F70_3	F70_3-8SBD115_160	4,22	1,28	-	-
		F70_3-6STA140/ BOLT180_160	4,88	1,28	-	-
			$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,C}$	$\gamma_{M,0}$
XS10	XS10_1	XS10_1-16SBD115_160	3,08	0,90	3,08	0,90
		XS10_1-16SBD95_140	2,75	0,90	2,75	0,90
		XS10_1-16SBD115_140	3,03	0,90	3,03	0,90
		XS10_1-16SBD135_160	3,34	0,90	3,34	0,90
		XS10_1-8STA120_160	2,09	0,90	2,09	0,90
	XS10_2	XS10_2-16SBD115_160	3,03	1,83	3,03	1,83
		XS10_2-16SBD115_160 Alt	3,01	1,83	3,01	1,83
		XS10_2-16SBD135_160	3,33	1,83	3,33	1,83
		XS10_2-16SBD155_200	3,68	1,83	3,68	1,83
		XS10_2-8STA120_160	1,74	1,83	1,74	1,83
		XS10_2-12STA120_160	4,19	1,83	4,19	1,83
		XS10_2-8STA120_200	4,65	1,83	4,65	1,83
		XS10_2-12STA160_200	6,74	1,83	6,74	1,83
			$\gamma_{M,C}$	$\gamma_{M,0}$	$\gamma_{M,C}$	$\gamma_{M,0}$

Definitions of forces, their directions and eccentricity



Acting forces and moments

F_1	axial force (tension or compression) acting along the central axis of the joint
F_2 and F_3	horizontal force parallel to the inner steel plate of the post base acting with the lever arm $e_{F2/F3}$ above the foundation
F_4 and F_5	horizontal force perpendicular to the inner steel plate of the post base acting with the lever arm $e_{F4/F5}$ above the foundation
M_2 and M_3	moment parallel to the inner steel plate of the post base
M_4 and M_5	moment perpendicular to the inner steel plate of the post base

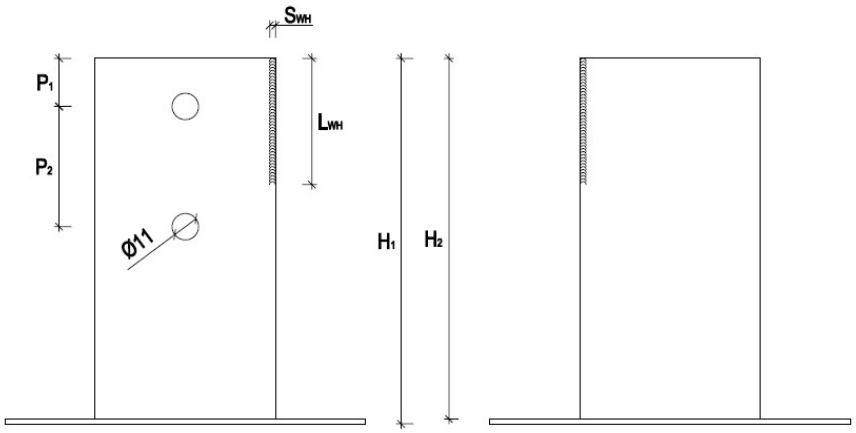
Combined forces

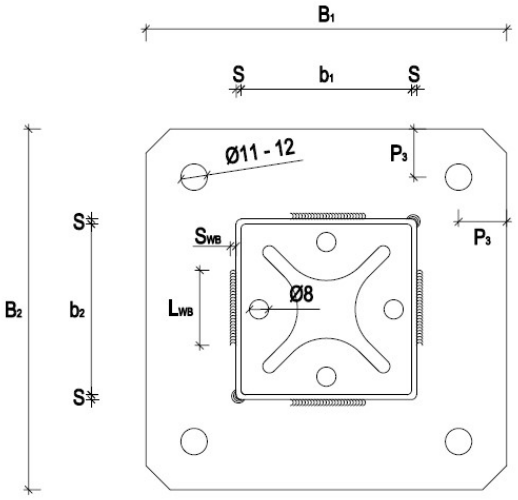
If the forces F_1, F_2 / F_3 and F_4 / F_5 and moments M_2 / M_3 and M_4 / M_5 act at the same time, the following inequality shall be fulfilled:

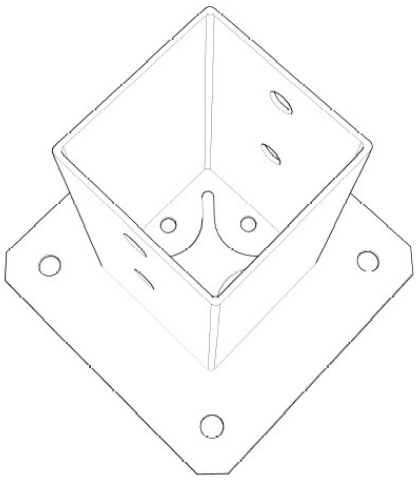
$$\sum \frac{E_{i,d}}{R_{i,d}} = \left(\frac{F_{1,t,Ed}}{F_{1,t,Rd}}\right) + \left(\frac{F_{1,c,Ed}}{F_{1,c,Rd}}\right) + \left(\frac{F_{2/3,Ed}}{F_{2/3,Rd}}\right) + \left(\frac{F_{4/5,Ed}}{F_{4/5,Rd}}\right) + \left(\frac{M_{2/3,Ed}}{M_{2/3,Rd}}\right) + \left(\frac{M_{4/5,Ed}}{M_{4/5,Rd}}\right) \leq 1$$

The forces F_2 and F_3 or F_4 and F_5 are forces with opposite direction. Therefore, only one force F_2 or F_3, and F_4 or F_5, respectively, is able to act simultaneously with F_1. This applies analogously to the moments.

Product drawings of Rotho Blaas post bases







Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	L_{WB}	S_{WB}	L_{WH}	S_{WH}
F10_1	150	150	2.0	71	71	152	150	20	50	20	30	2.5	80	2.0
F10_2	150	150	2.0	91	91	152	150	20	50	15	30	2.5	80	2.0

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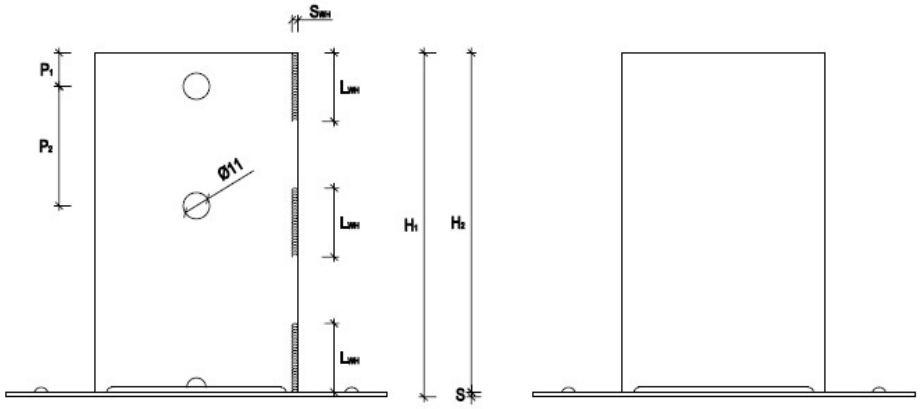
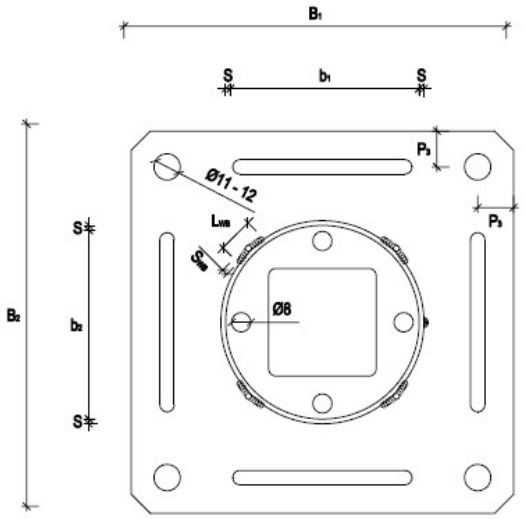
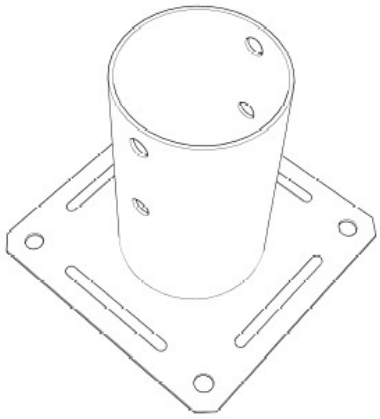
Product:

Typ F10

Post base







Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	L_{WB}	S_{WB}	L_{WH}	S_{WH}
F20_1	160	160	2.0	81	81	152	150	20	50	20	25	2.5	30	2.5
F20_2	160	160	2.0	101	101	152	150	20	50	20	30	2.5	30	2.5
F20_3	180	180	2.0	121	121	152	150	20	50	20	35	2.5	30	2.5
F20_4	200	200	2.0	141	141	152	150	20	50	20	40	2.5	30	2.5

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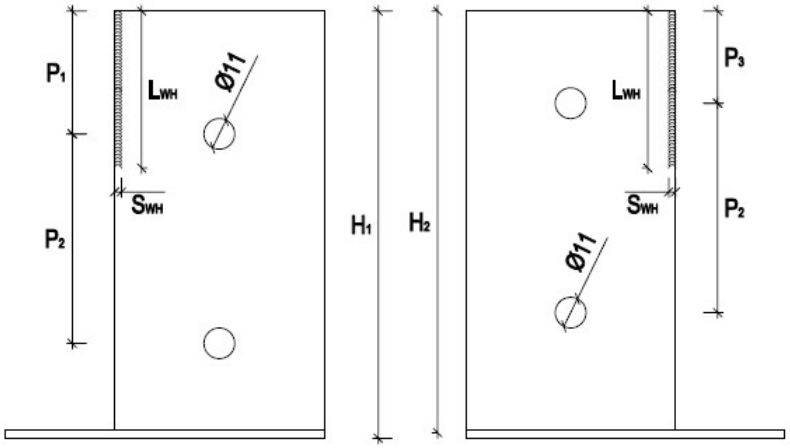
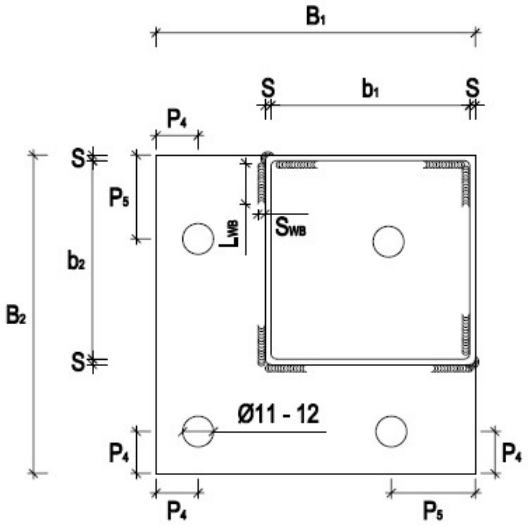
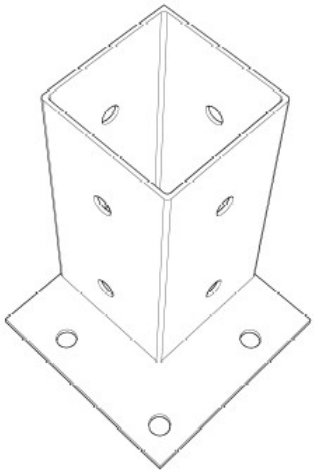
Product:

Typ F20

Post base







Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	P_4	P_5	L_{WB}	S_{WB}	L_{WH}	S_{WH}
F30_1	114	114	2.0	71	71	153	150	45	75	30	15	30	20	2.5	70	2
F30_2	134	134	2.0	91	91	153	150	45	75	30	15	30	20	2.5	70	2

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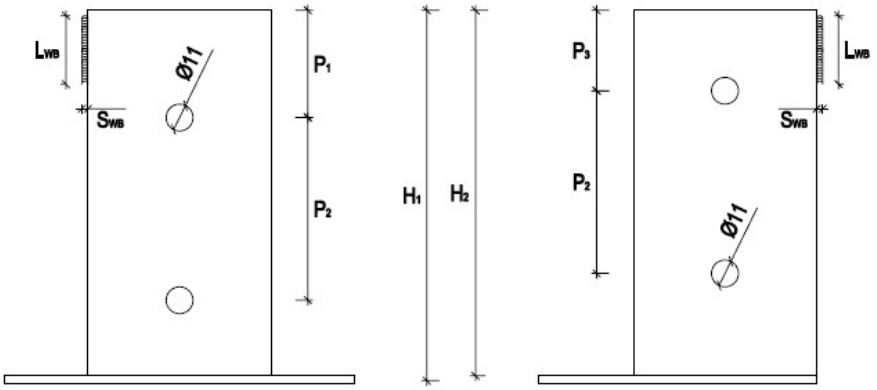
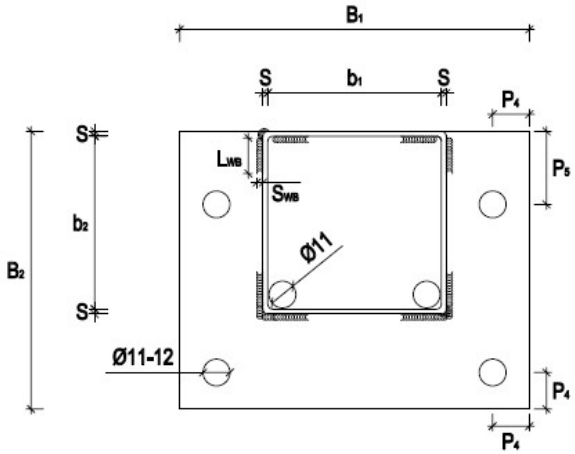
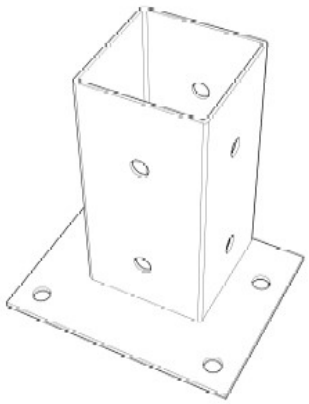
Product:

Typ F30

Post base







Typ	B1	B2	S	b1	b2	H1	H2	P1	P2	P3	P4	P5	LWB	SWB	LWH	SW
F40_1	143	114	2	71	71	153	150	45	75	30	15	30	20	2.5	70	2.5
F40_2	163	134	2	91	91	153	150	45	75	30	15	30	20	2.5	70	2.5

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Typ F40

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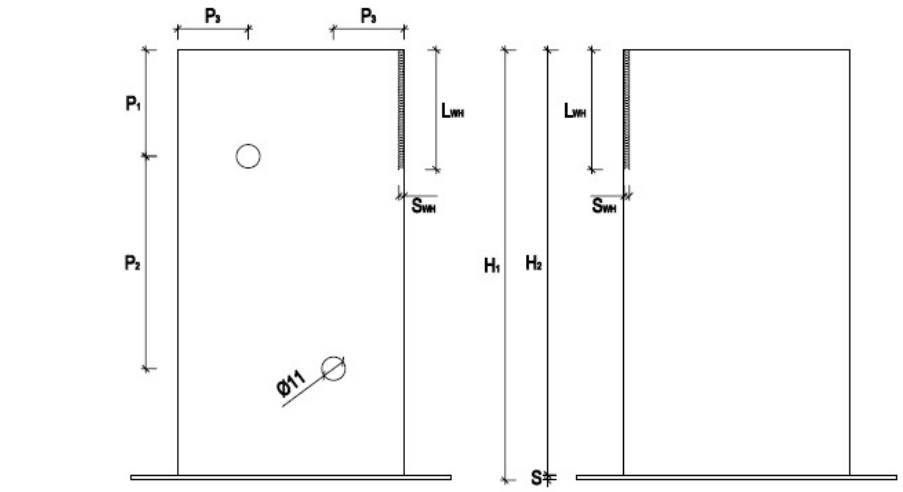

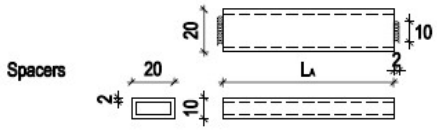

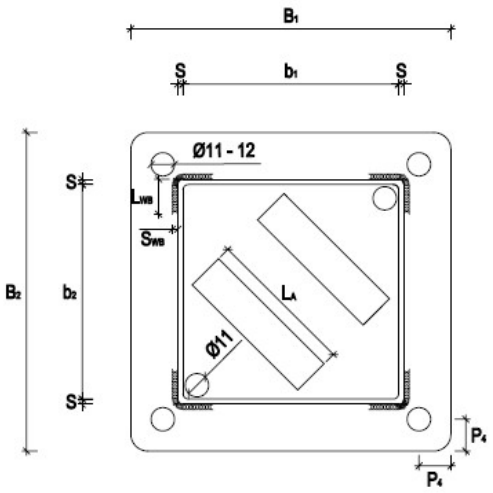

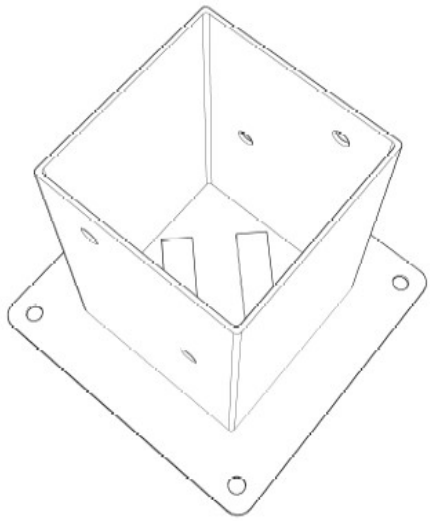

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	L_{WH}	S_{WH}	$L_{A,min}$
F50_1	150	150	2.5	101	101	152.5	150	30	70	30	15	20	2.5	70	2.5	70
F50_2	200	200	2.5	121	121	152.5	150	30	70	35	15	25	2.5	70	2.5	80
F50_3	200	200	2.5	141	141	152.5	150	30	70	40	15	30	2.5	70	2.5	100
F50_4	240	240	2.5	161	161	202.5	200	50	100	45	15	30	2.5	70	2.5	100
F50_5	280	280	2.5	181	181	202.5	200	50	100	50	25	40	2.5	70	2.5	100
F50_6	300	300	2.5	201	201	202.5	200	50	100	55	25	40	2.5	75	2.5	110

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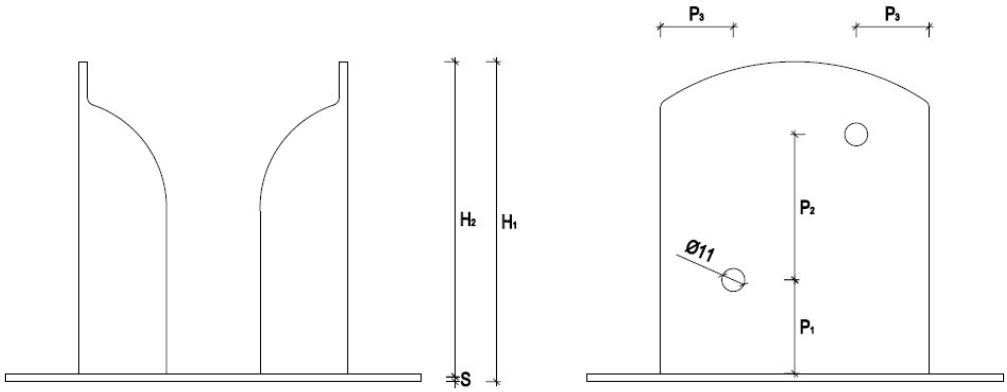
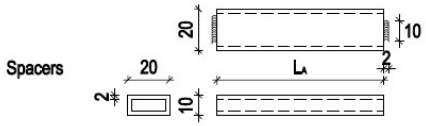
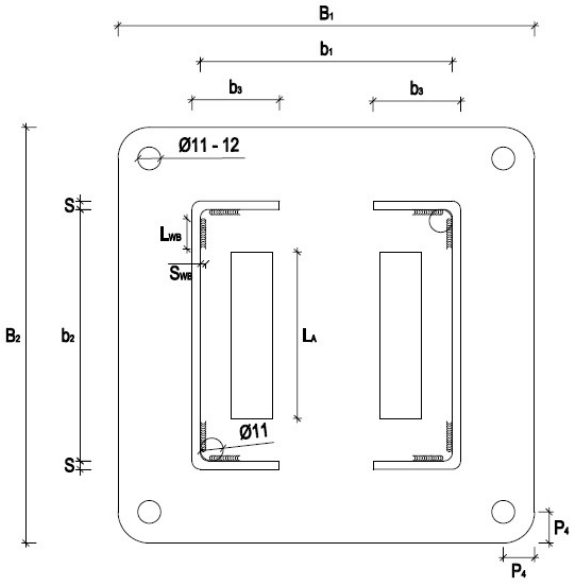
Product:

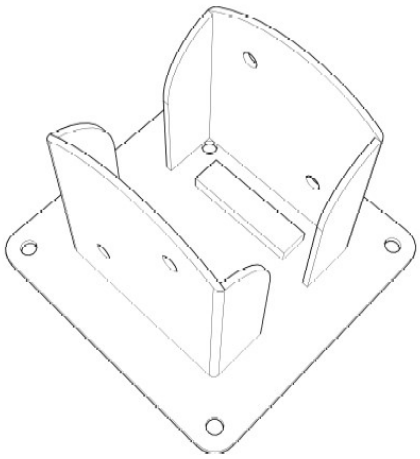
Typ F50

Post base









Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	b_3	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	$L_{A,min}$
F60_1	200	200	4	121	121	154	150	42	45	70	35	15	20	4	80
F60_2	220	220	4	141	141	154	150	50	45	70	40	15	20	4	90
F60_3	240	240	4	161	161	204	200	58	45	70	45	15	25	4	100
F60_4	320	320	4	201	201	204	200	58	45	70	55	20	35	4	130
F60_5	240	240	4	161	161	154	150	58	45	70	45	15	25	4	100
F60_6	320	320	4	201	201	154	150	58	45	70	55	20	35	4	130

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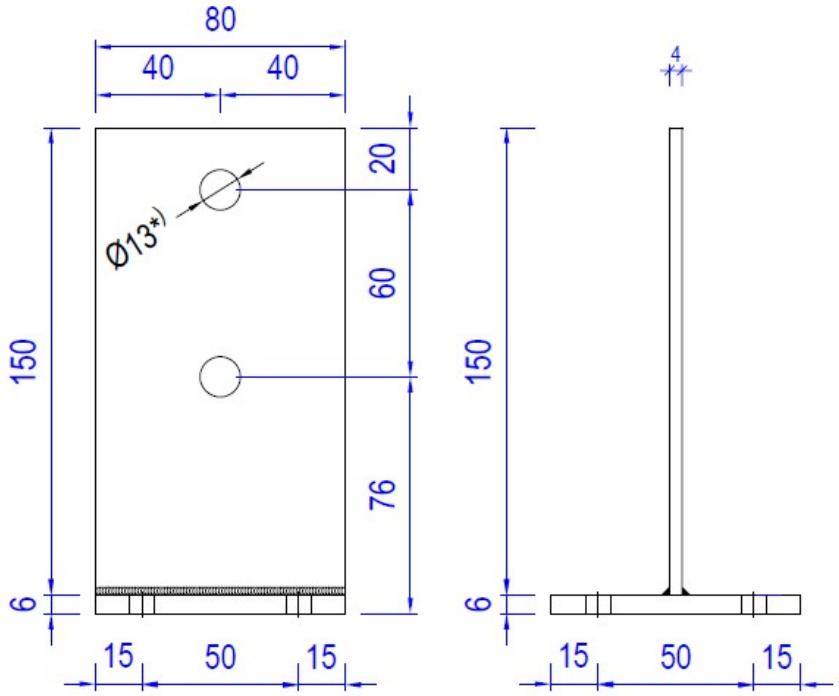
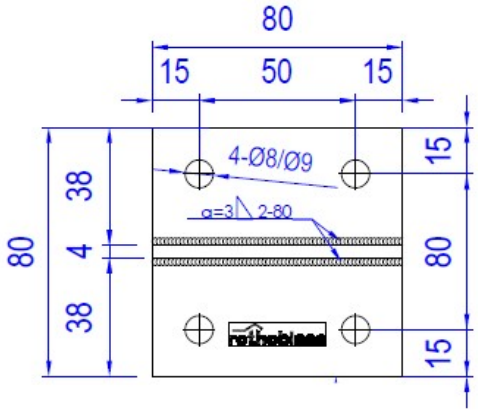
Product:

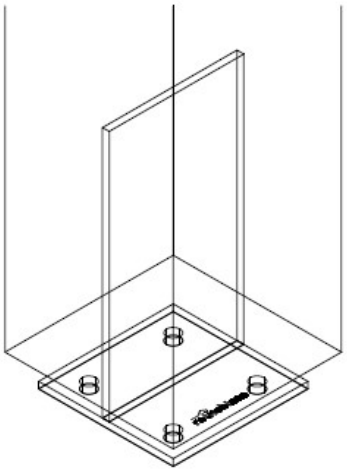
Typ F60

Post base



*) Holes Ø13 mm on vertical flange are optional

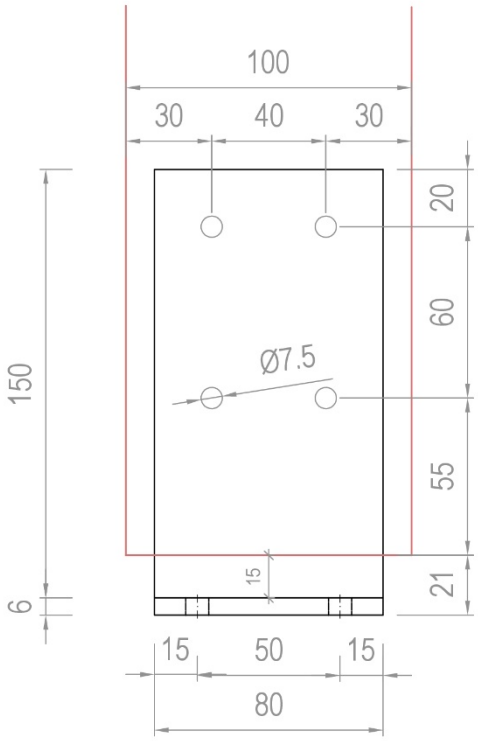




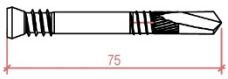
All dimension in mm

rothoblaas	Object: Postbase F70_1				

4 selftapping dowels SBD Ø7.5 x 75
Post MIN 100x100 mm



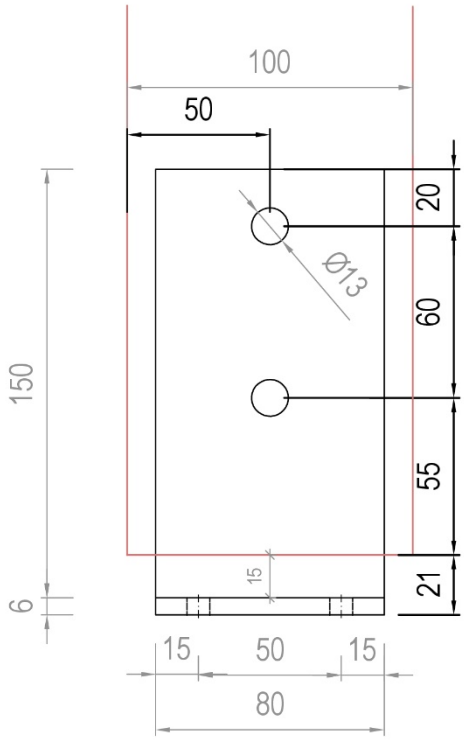
SBD 7.5x75

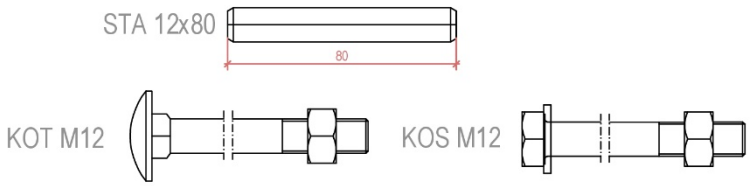


Object: Postbase F70_1

Configuration: F70_1-4SBD75_100

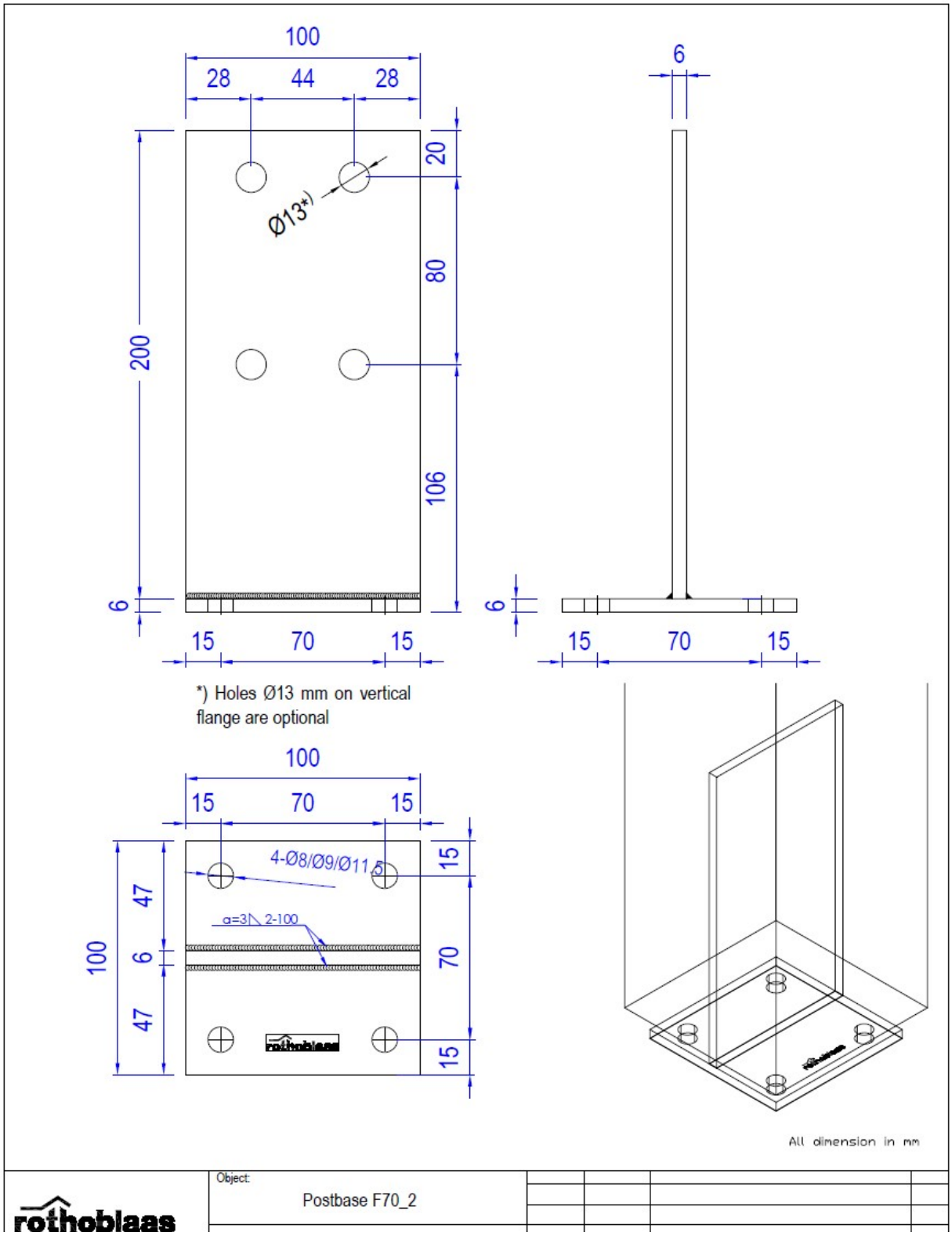
2 smooth dowels STA Ø12 x 80
or 2 bolts M12 x 120
Post MIN 100x100 mm



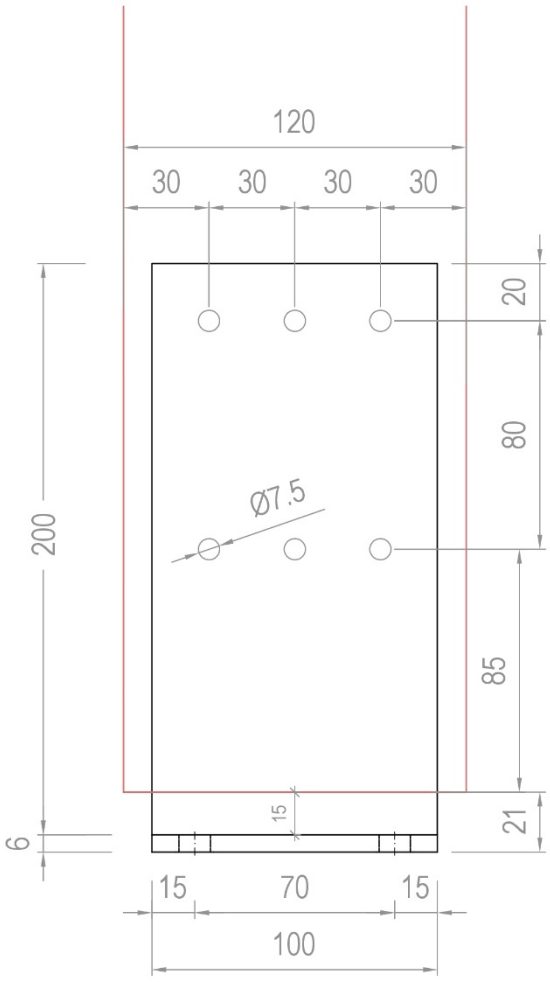


Object: Postbase F70_1

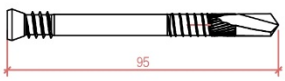
Configuration: F70_1-2STA80/BOLT120_100


100
28
44
28
20
Ø13*)
80
200
106
6
15
70
15
6
6
15
70
15
*) Holes Ø13 mm on vertical flange are optional
100
15
70
15
4-Ø8/Ø9/Ø11,5
15
47
a=3
2-100
100
6
70
47
15
All dimension in mm
rothoblaas
Object:
Postbase F70_2

6 selftapping dowels SBD Ø7.5 x 95
Post MIN 120x120 mm

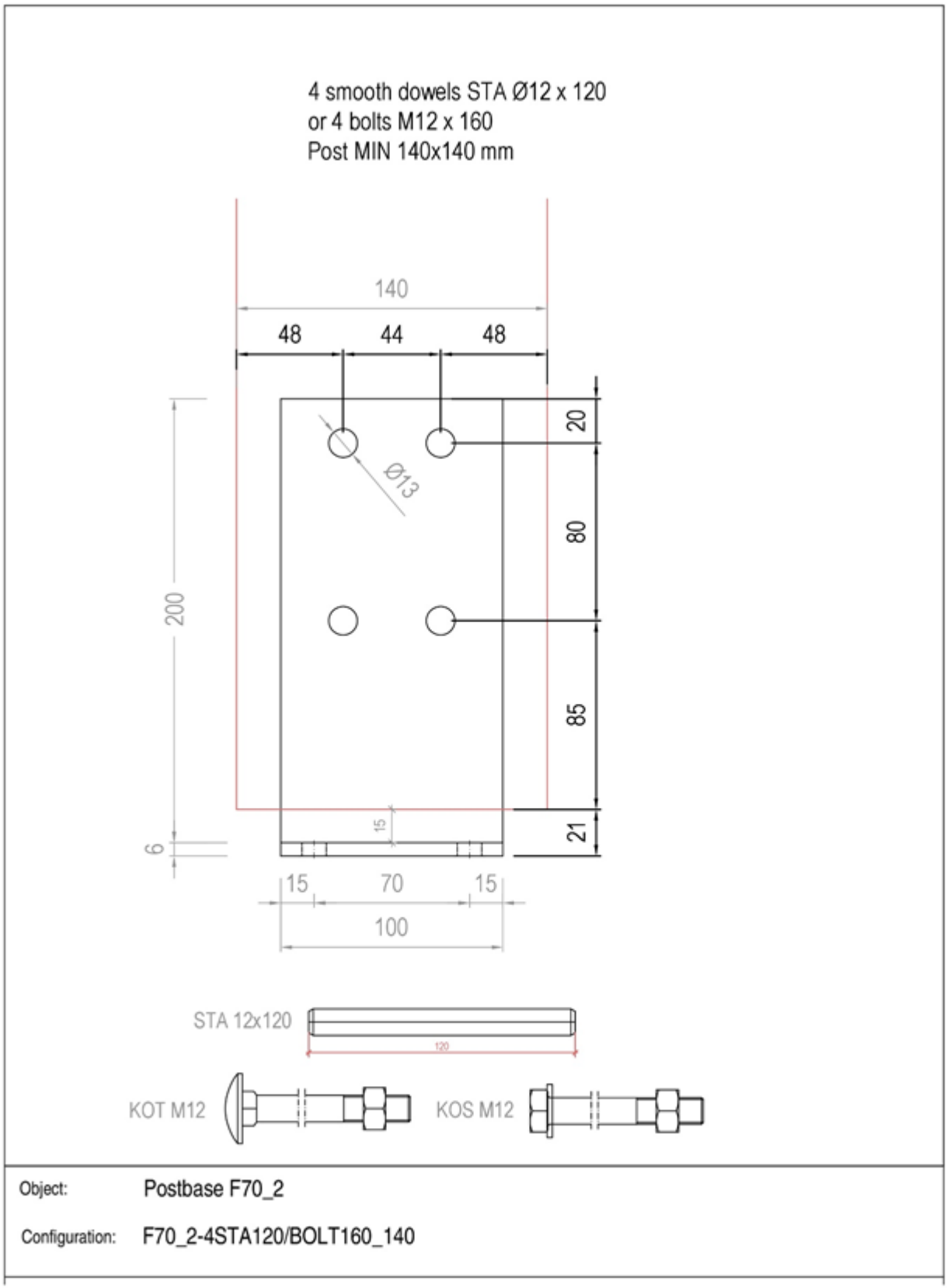


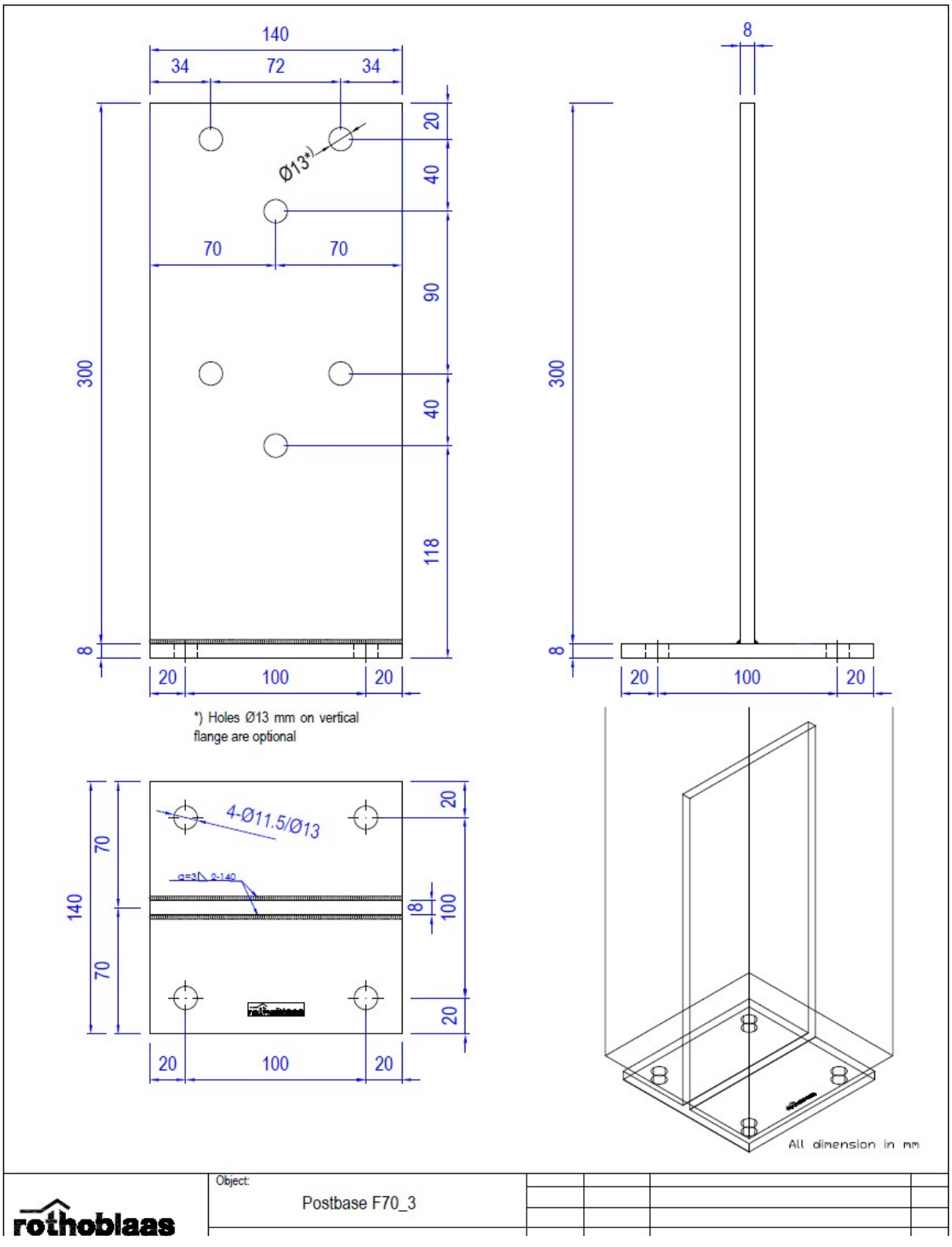
SBD 7.5x95

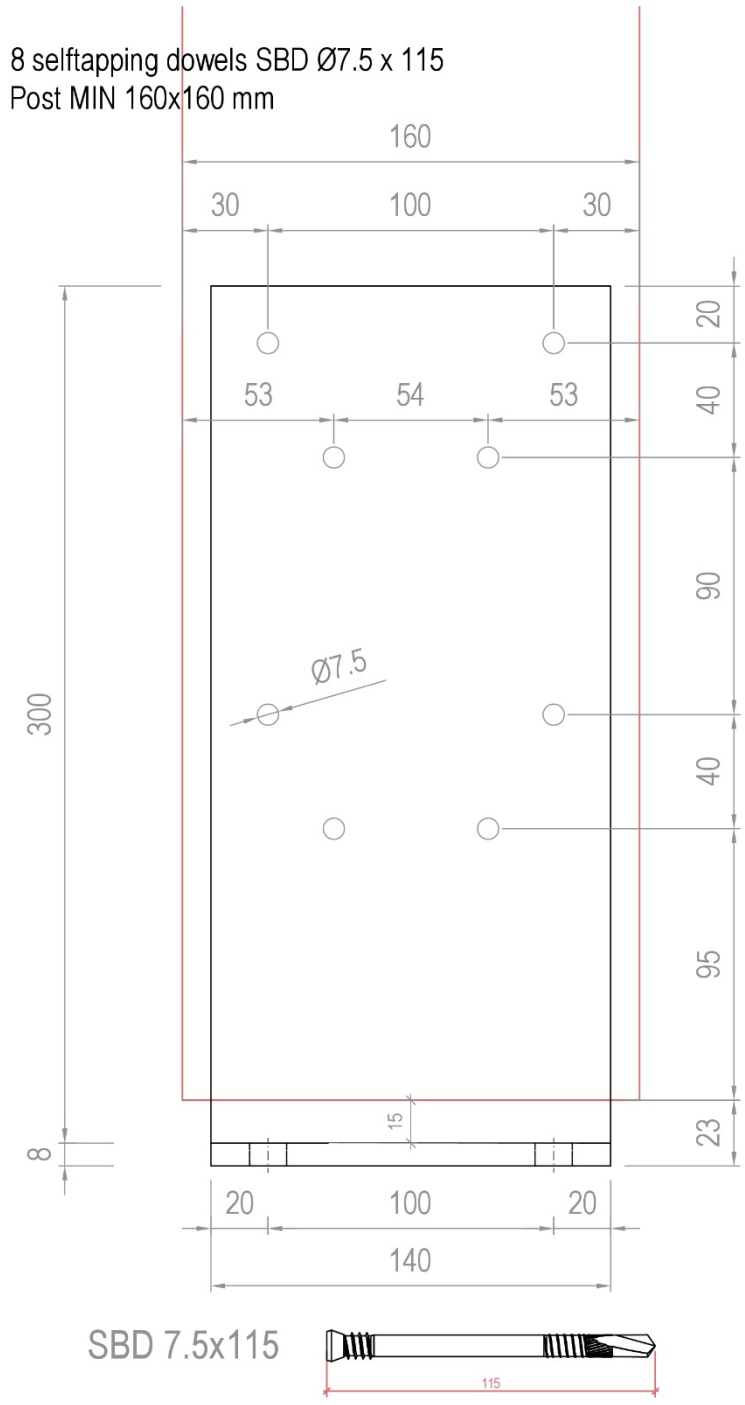


Object: Postbase F70_2

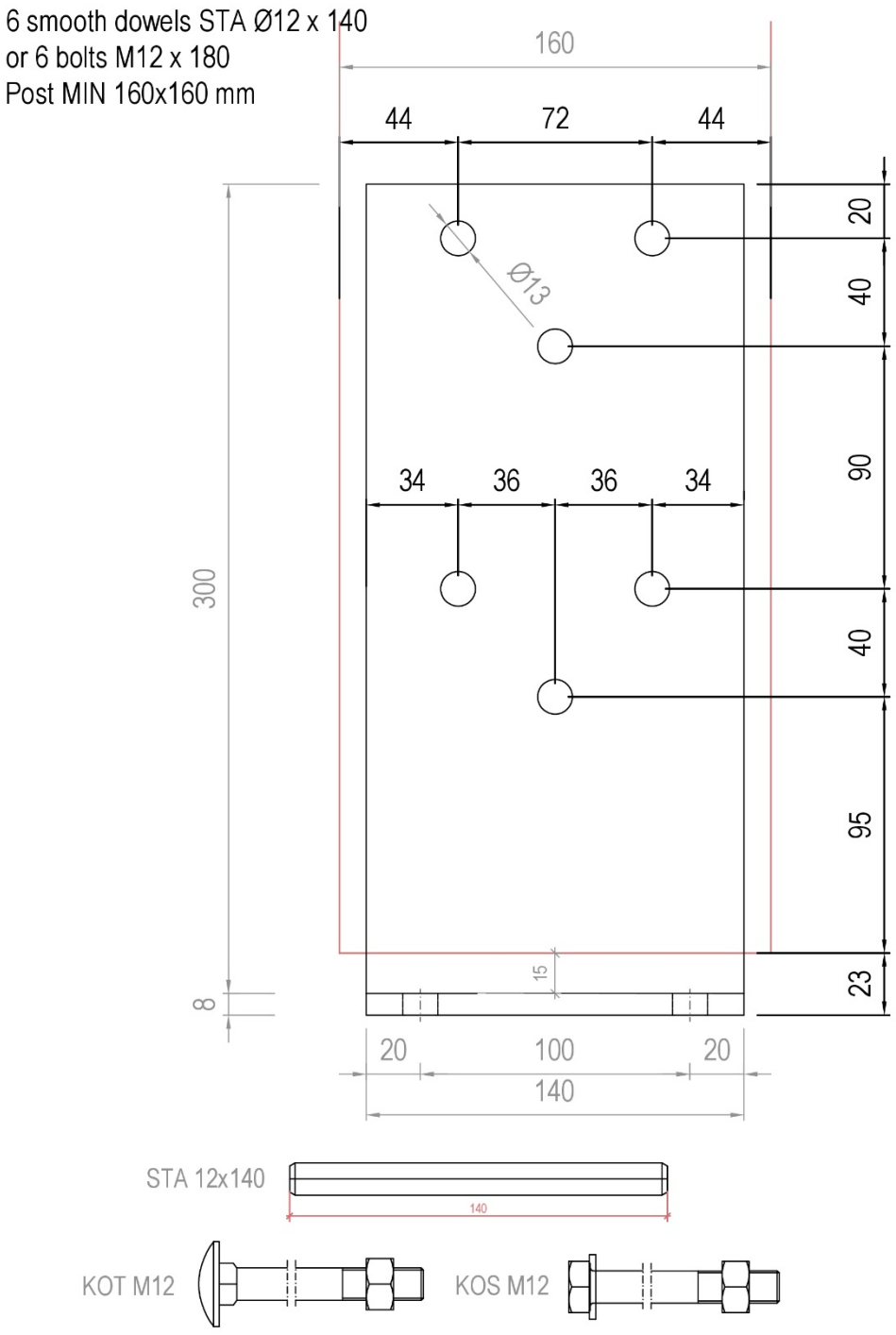
Configuration: F70_2-6SBD95_120


4 smooth dowels STA Ø12 x 120
or 4 bolts M12 x 160
Post MIN 140x140 mm
140
48
44
48
20
80
85
21
Ø13
200
6
15
15
70
15
100
STA 12x120
120
KOT M12
KOS M12
Object:
Postbase F70_2
Configuration:
F70_2-4STA120/BOLT160_140


140
34
72
34
20
Ø13*)
40
70
70
90
300
40
118
8
20
100
20
*) Holes Ø13 mm on vertical flange are optional
8
300
8
20
100
20
4-Ø11.5/Ø13
70
140
70
8
100
20
20
100
20
All dimension in mm
rothoblaas
Object:
Postbase F70_3

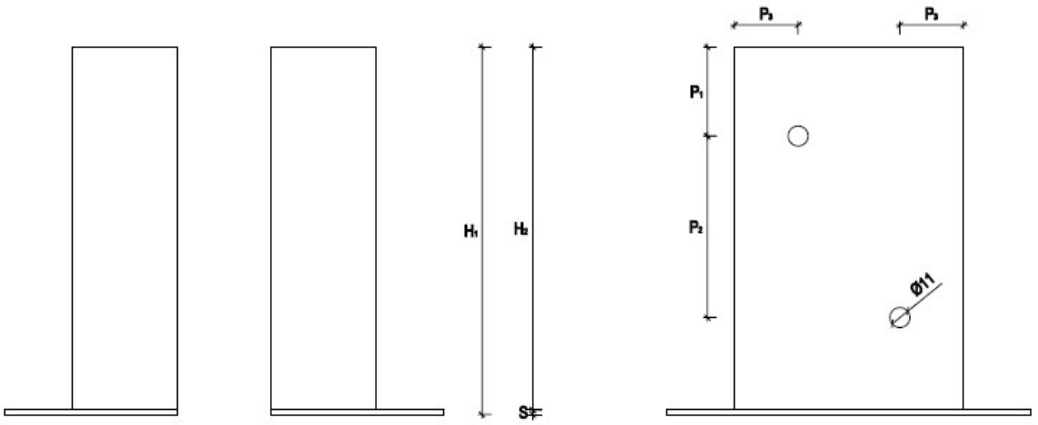


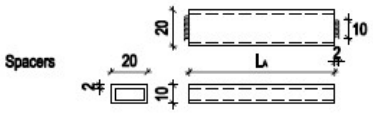
Object:	Postbase F70_3
Configuration:	F70_3-8SBD115_160

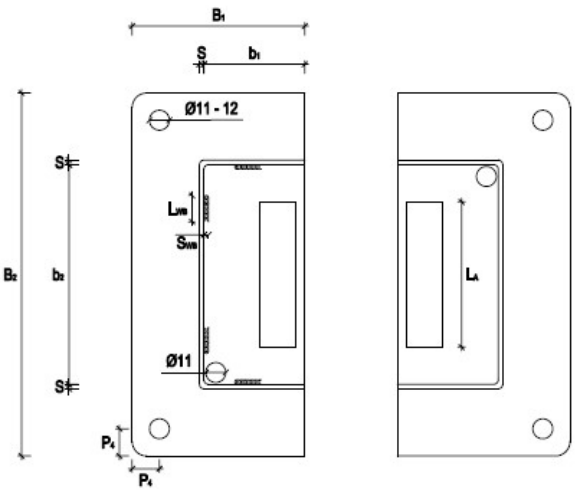


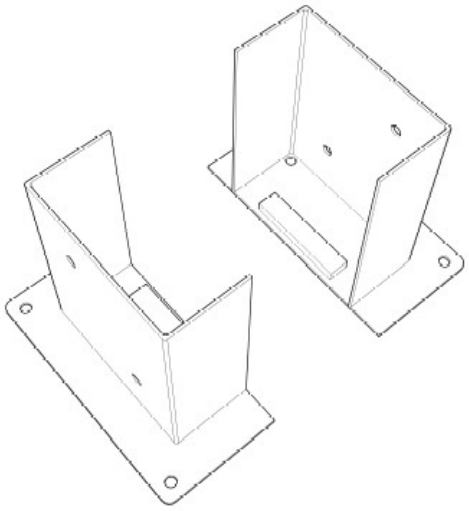
Object: Postbase F70_3

Configuration: F70_3-6STA140/BOLT180_160









Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	$L_{A,min}$
FD10_1	95	200	2.5	55.5	121	202.5	200	50	100	35	15	25	2.5	80
FD10_2	105	220	2.5	65.5	141	202.5	200	50	100	40	15	25	2.5	90
FD10_3	115	240	2.5	75.5	161	202.5	200	50	100	45	15	30	2.5	100
FD10_4	125	260	2.5	85.5	181	202.5	200	50	100	50	15	30	2.5	110
FD10_5	135	280	2.5	95.5	201	202.5	200	50	100	55	15	35	2.5	130

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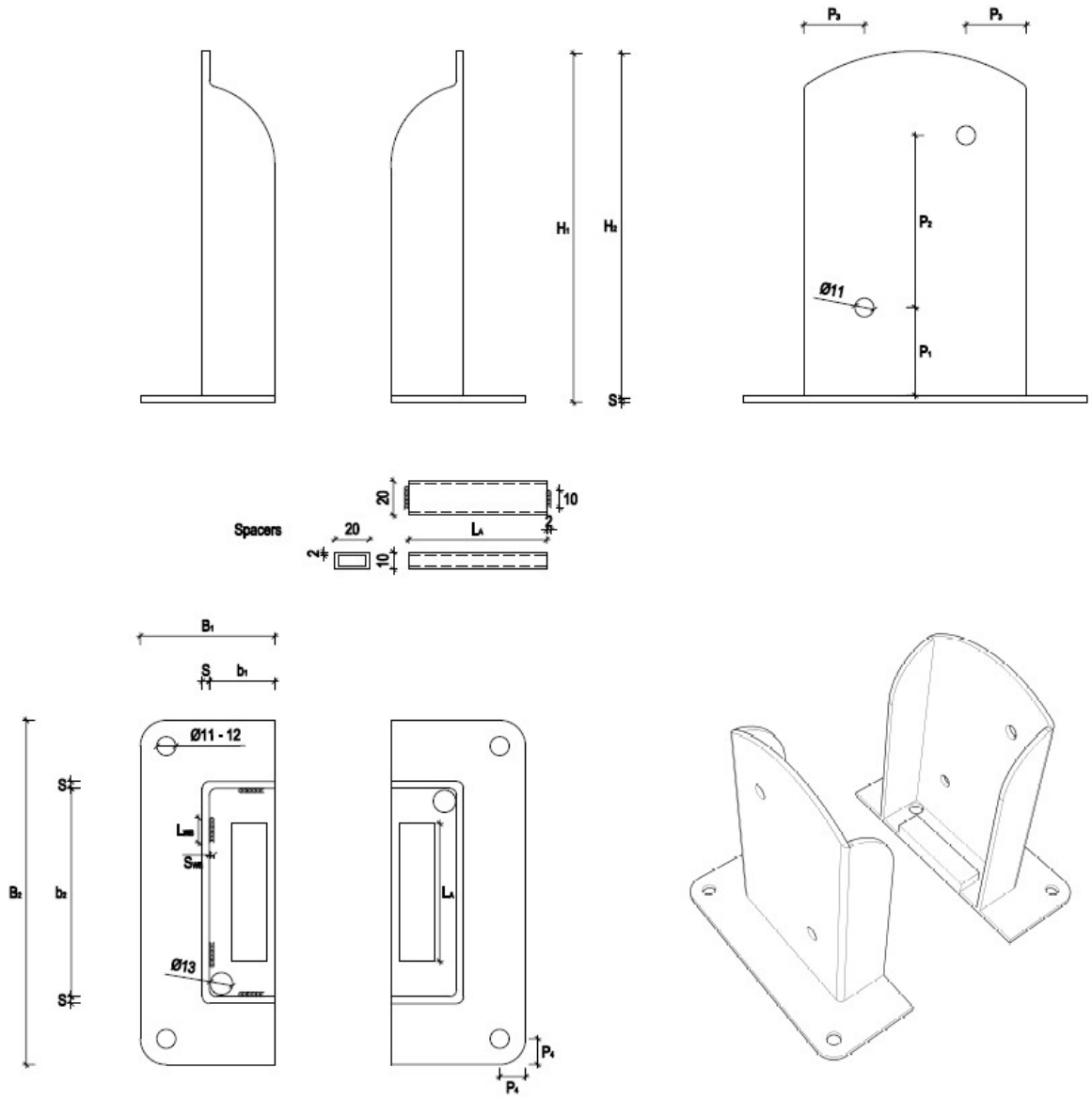
Product:

Typ FD10

Post base



Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	$L_{A,min}$
FD20_1	78	200	4	38	121	204	200	50	100	35	15	20	4	80
FD20_2	85	220	4	46	141	204	200	50	100	40	15	25	4	90
FD20_3	92	240	4	54	161	204	200	50	100	45	15	30	4	100
FD20_4	105	280	4	66	201	204	200	50	100	55	15	35	4	130

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Product:

Typ FD20

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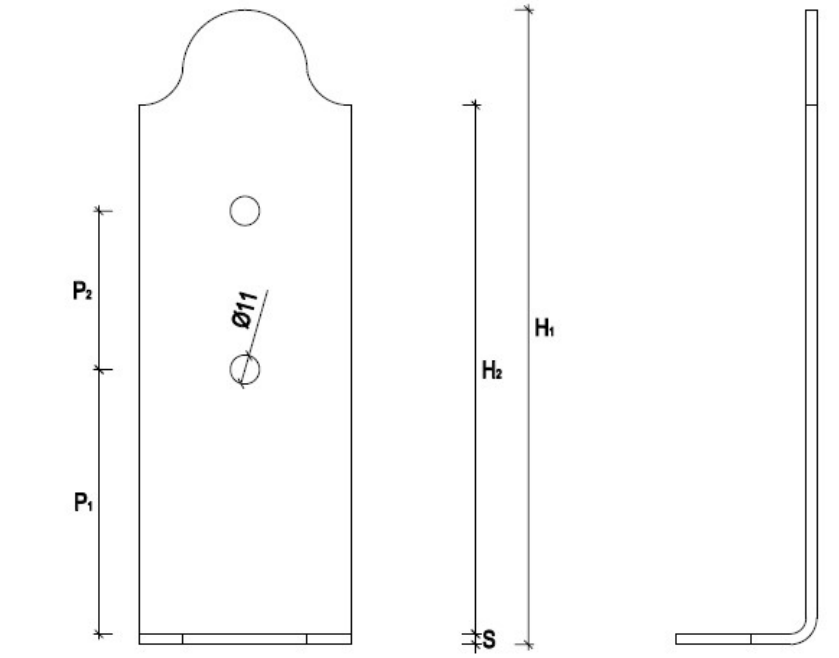

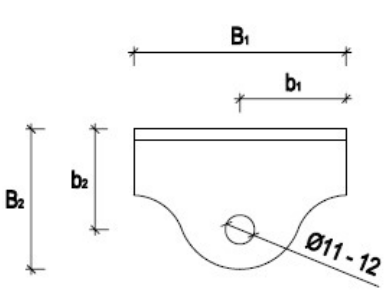

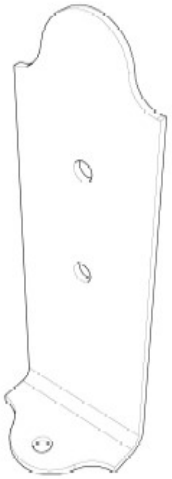

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2
FD30_1	60	50	4.0	30	30	180	150	85	50
FD30_2	80	50	4.0	40	38	240	200	100	60

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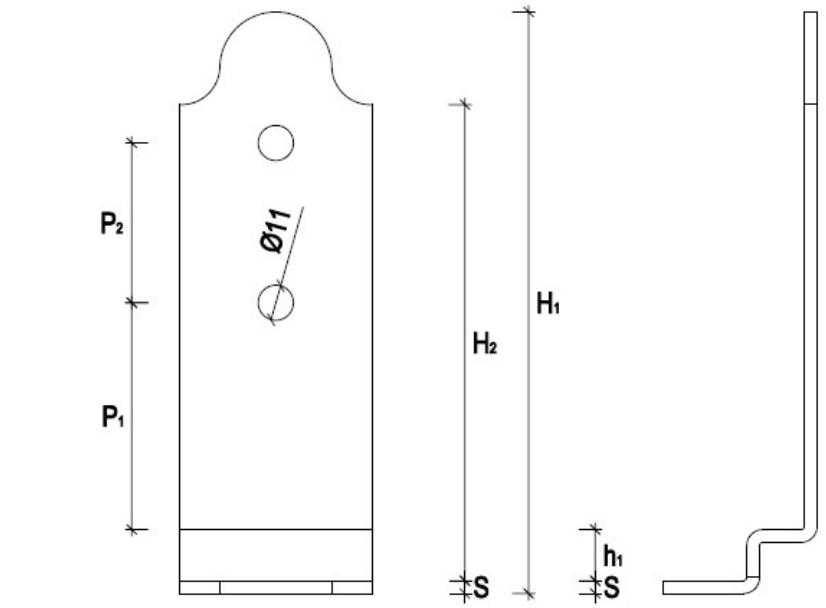
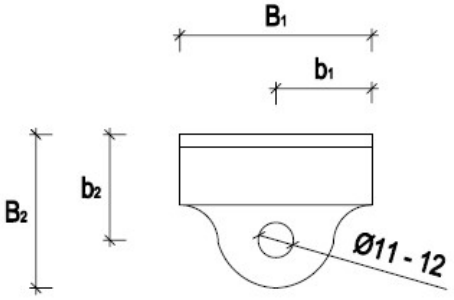
Typ FD30

Post base





Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	h_1	P_1	P_2
FD40_1	60	50	4.0	30	33	180	150	16	70	50
FD40_2	80	60	4.0	40	40	240	200	16	85	60

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Product:

Typ FD40

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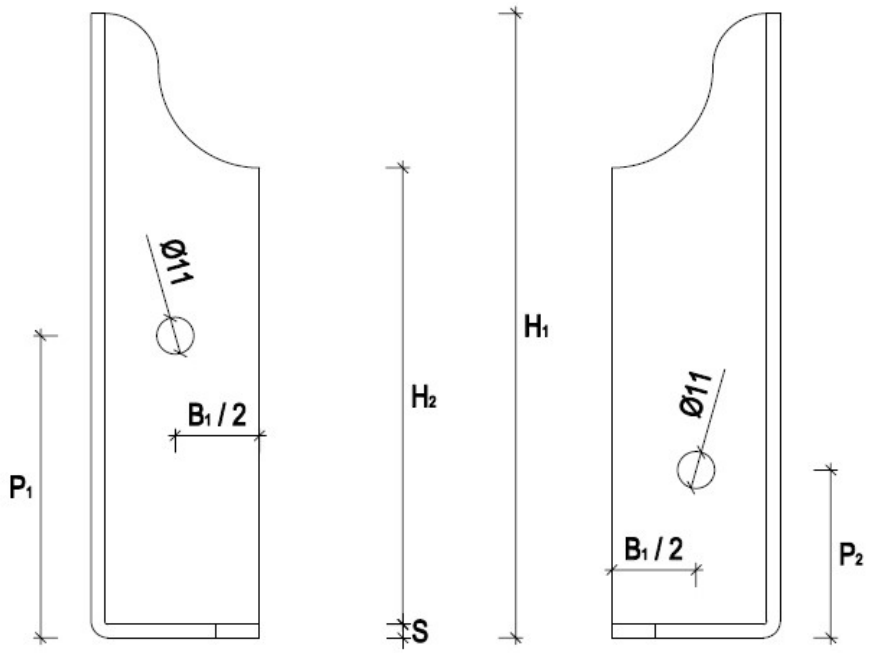

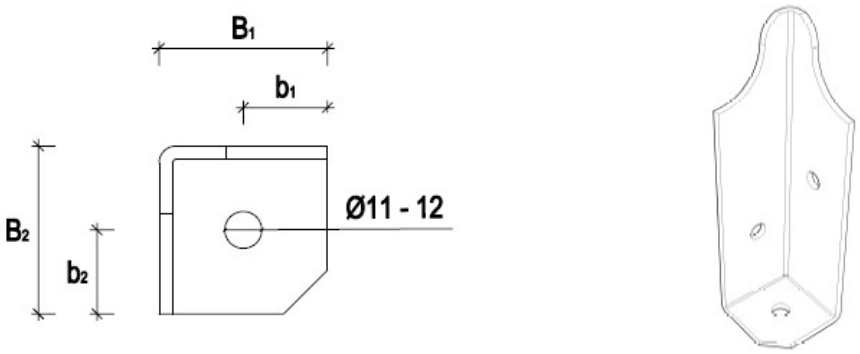

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2
FD50_1	50	50	4.0	25	25	185	136	90	50
FD50_2	80	80	4.0	40	40	220	140	90	50

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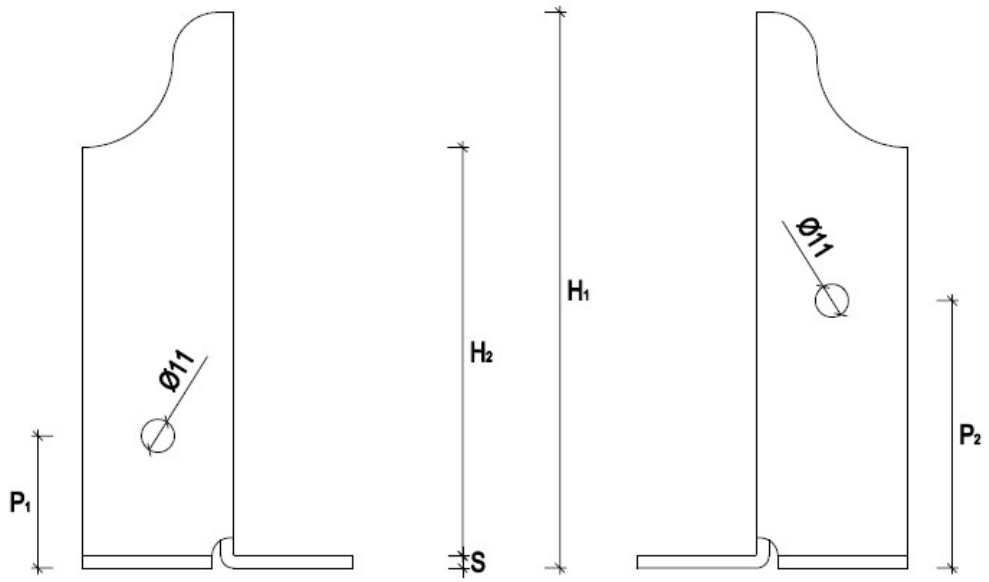

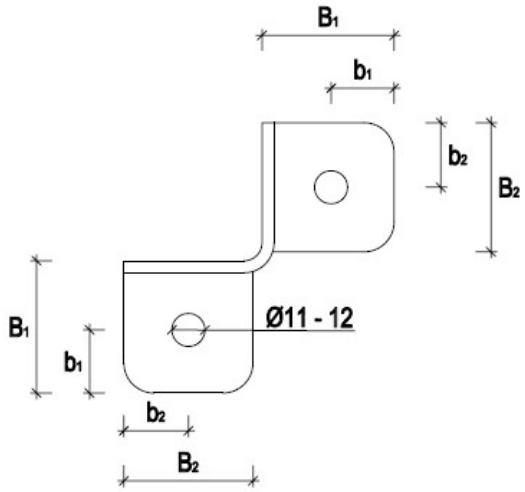

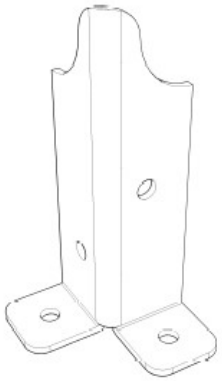

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2
FD60_1	44	43	4.0	21	21	185	181	43	87
FD30_2	54	73	4.0	27	36.5	220	216	47	87

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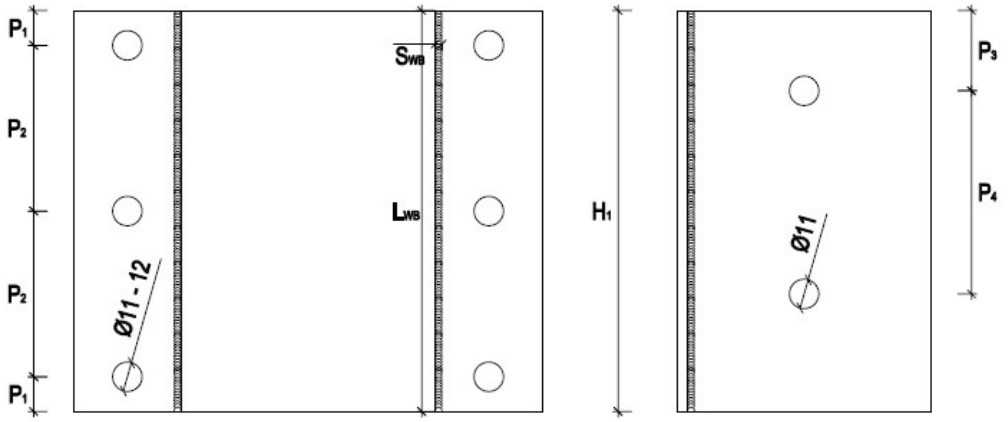
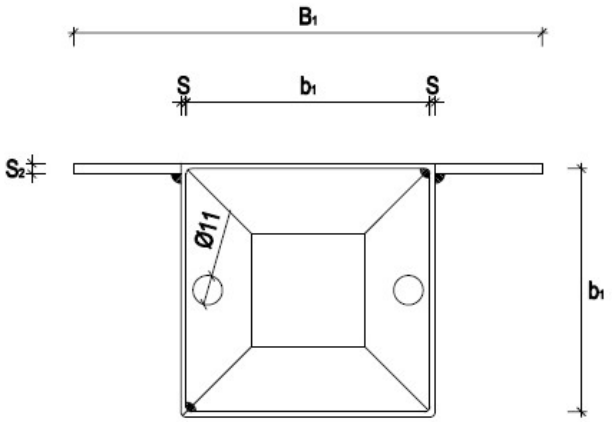
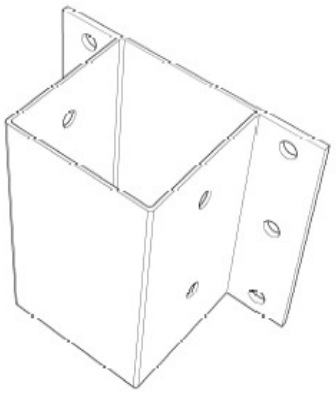
Product:

Typ FD60

Post base







Typ	B_1	B_2	S	b_1	S_2	H_1	H_2	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	L_{WH}	S_{WH}
M10_1	151	-	2	71	4	150	-	15	60	30	75	150	2.5	-	-
M10_2	175	-	2	91	4	150	-	15	60	30	75	150	2.5	-	-

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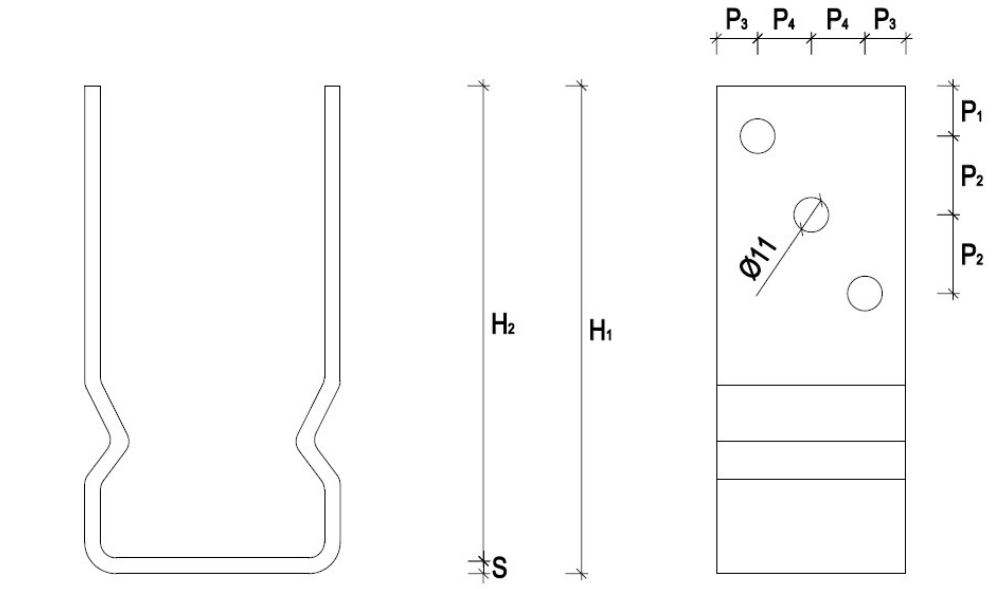

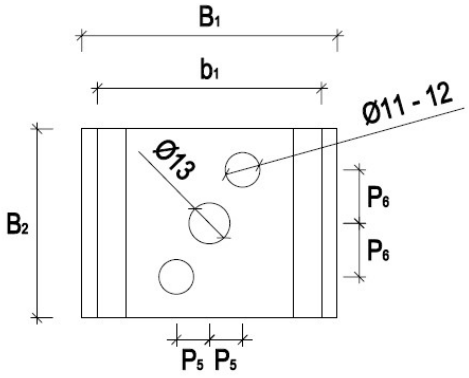

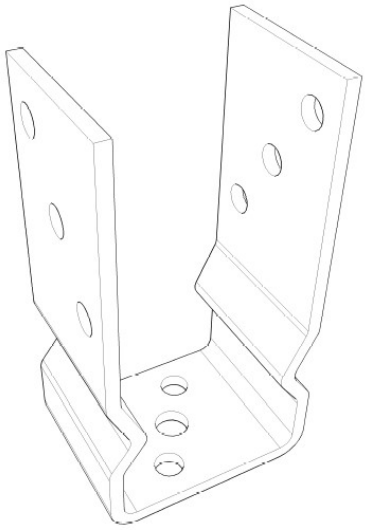

Typ	B_1	B_2	S	b_1	H_1	H_2	P_1	P_2	P_3	P_4	P_5	P_6
M20_1	81	60	5.0	71	155	150	16	25	13	17	10.5	17
M20_2	101	60	5.0	91	155	150	16	25	13	17	20.5	17
M20_3	111	60	5.0	101	155	150	16	25	13	17	25.5	17
M20_4	131	60	5.0	121	155	150	16	25	13	17	35.5	17

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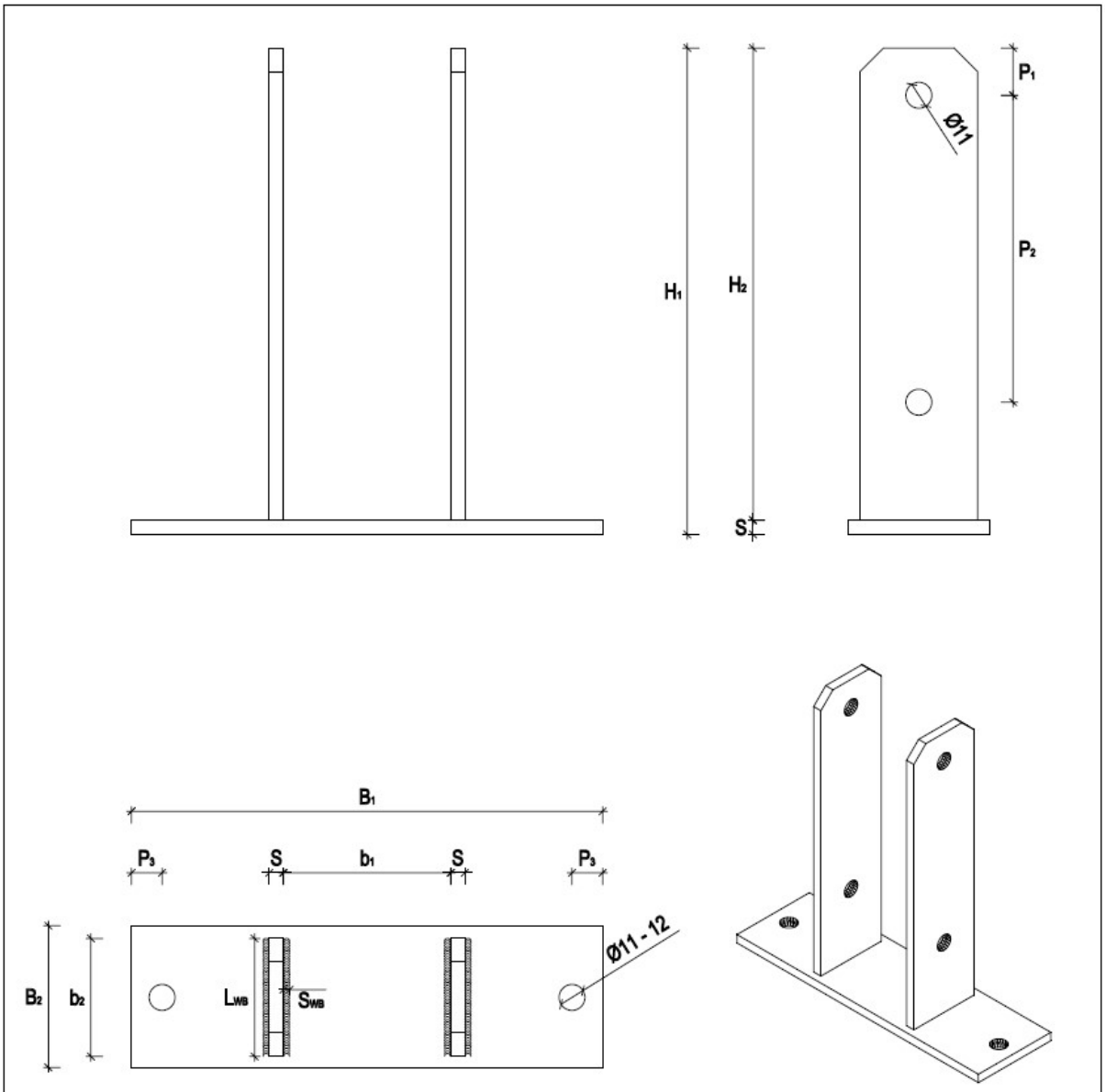

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	L_{WB}	S_{WB}	L_{WH}	S_{WH}
M30_1	160	60	5	71	50	205	200	20	130	15	50	4	-	-
M30_2	170	60	5	81	50	205	200	20	130	15	50	4	-	-
M30_3	180	60	5	91	50	205	200	20	130	15	50	4	-	-
M30_4	190	60	5	101	50	205	200	20	130	15	50	4	-	-
M30_5	210	60	5	121	50	205	200	20	130	15	50	4	-	-

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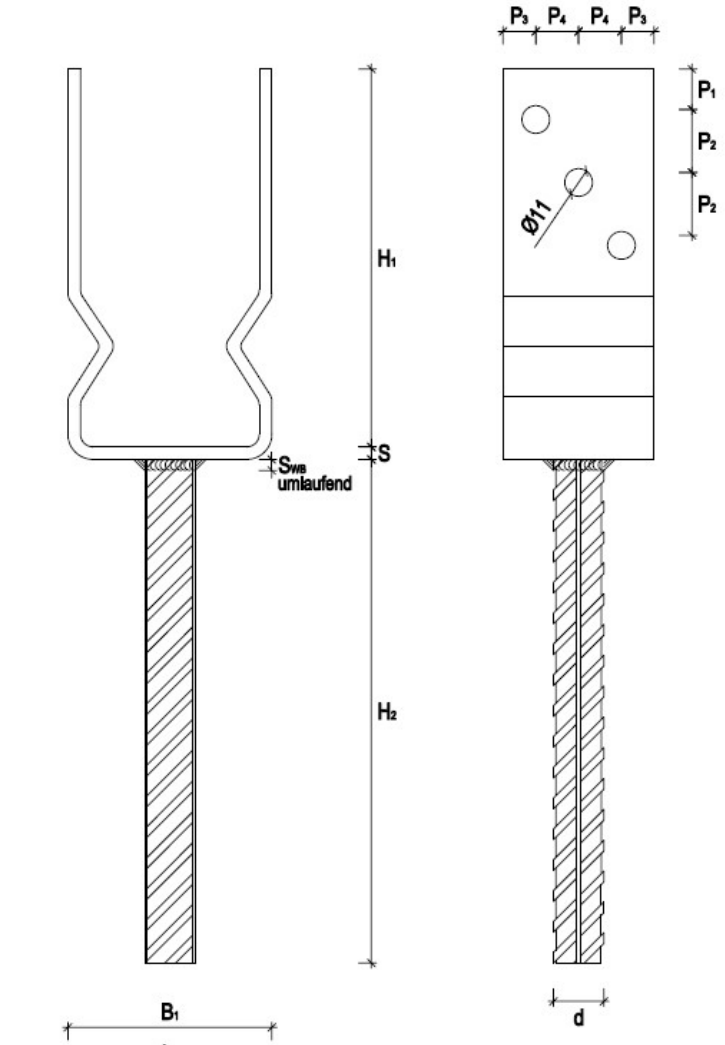

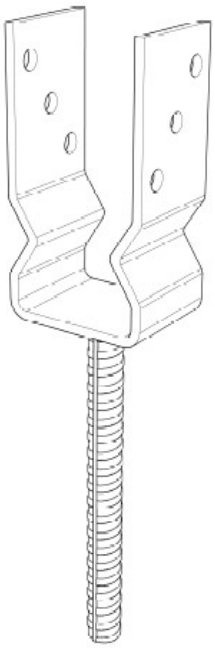

Typ	B_1	B_2	S	b_1	H_1	H_2	d	P_1	P_2	P_3	P_4	S_{WB}
M50_1	81	60	5.0	71	150	200	20	16	25	13	17	4
M50_2	101	60	5.0	91	150	200	20	16	25	13	17	4
M50_3	111	60	5.0	101	150	200	20	16	25	13	17	4
M50_4	131	60	5.0	121	150	200	20	16	25	13	17	4

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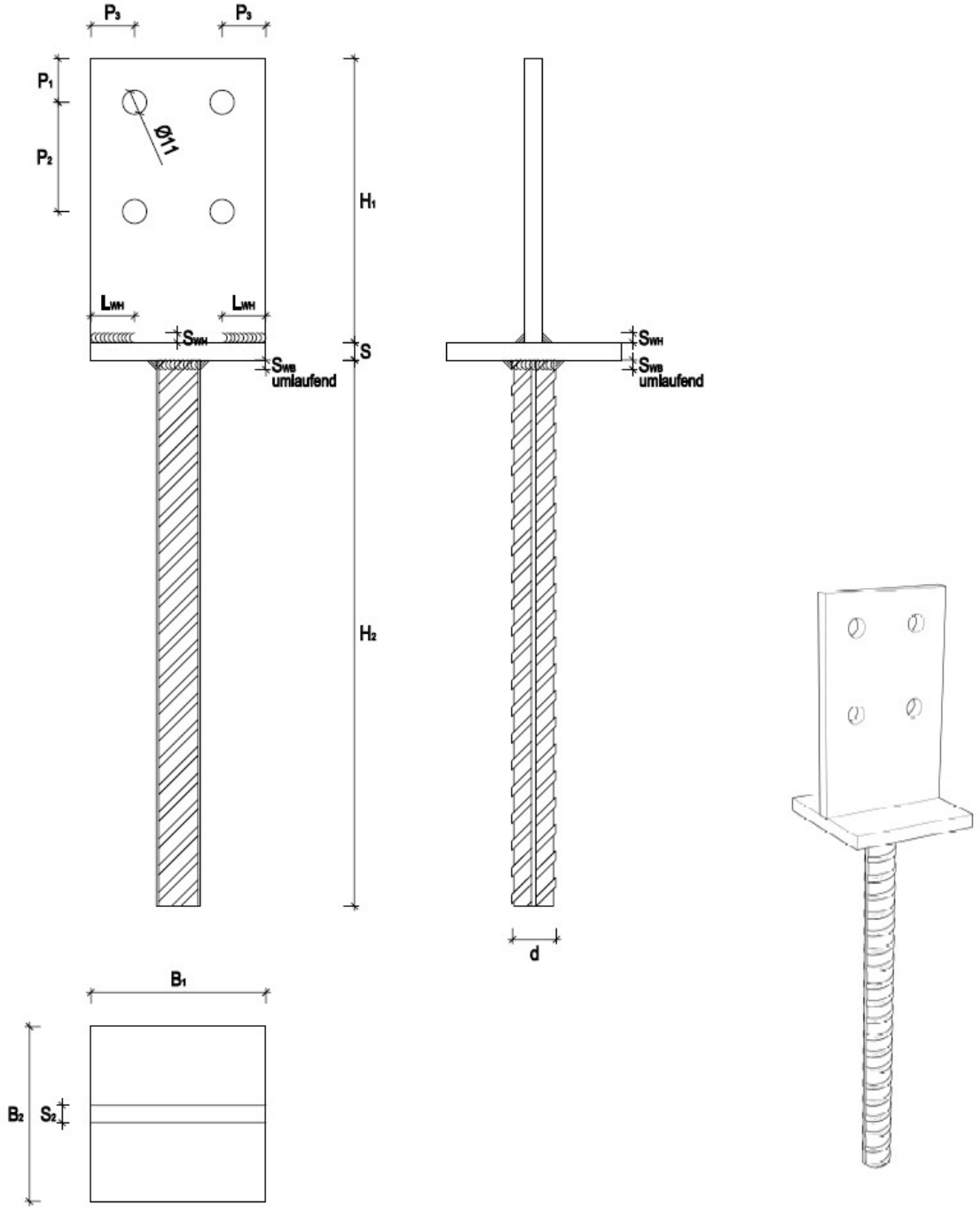

Typ	B_1	B_2	S	S_2	H_1	H_2	d	P_1	P_2	P_3	S_{WB}	S_{WH}	L_{WH}
M60_1	80	80	8	8	130	250	20	20	50	20	4	4	30

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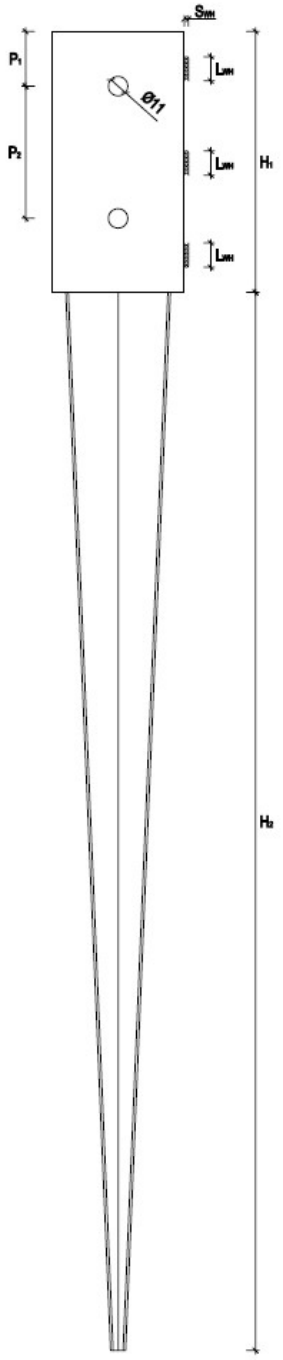

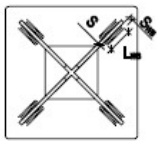

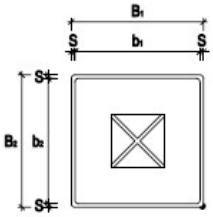

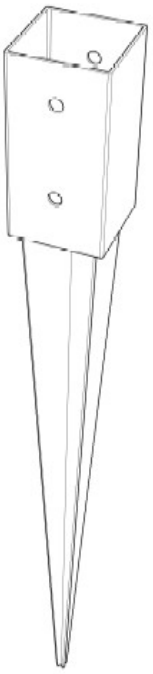

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	L_{WB}	S_{WB}	L_{WH}	S_{WH}
M70_1	75	75	2	71	71	150	600	30	90	20	2	25	2
M70_2	95	95	2	91	91	150	600	30	90	25	2	30	2

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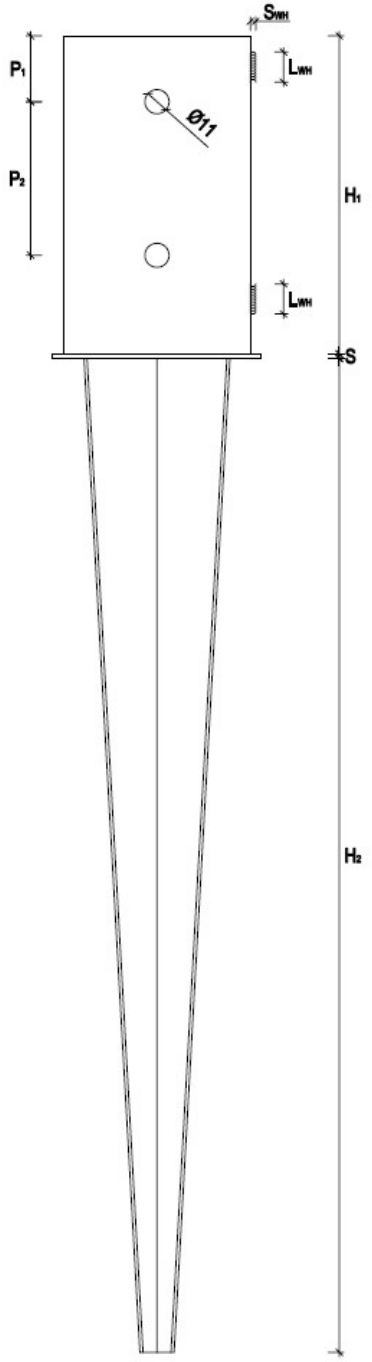
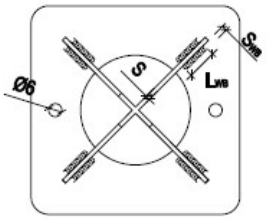
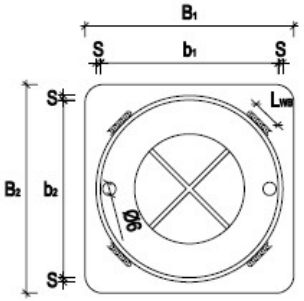
Product:
Typ M70_1, M70_2







Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	L_{WB}	S_{WB}	L_{WH}	S_{WH}
M70_3	95	95	2	81	81	145	453	30	70	20	2.5	25	3
M70 4	110	110	2	101	101	145	453	30	70	30	2.5	35	3

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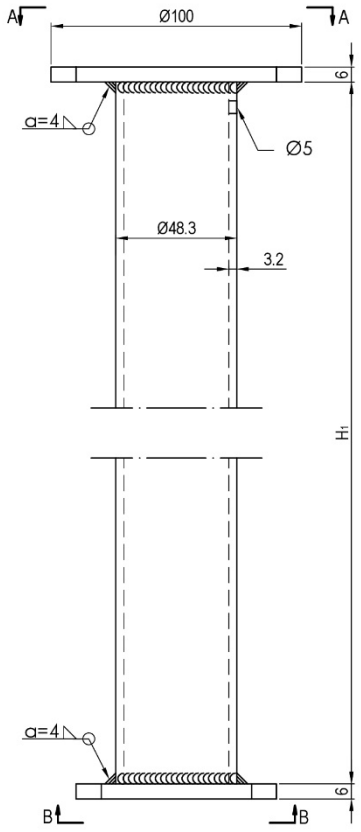
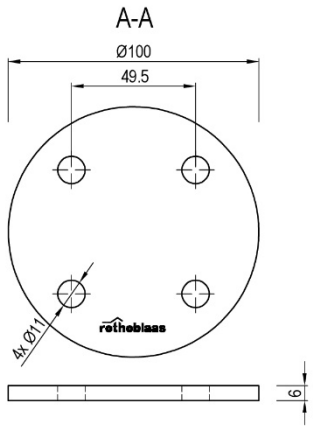
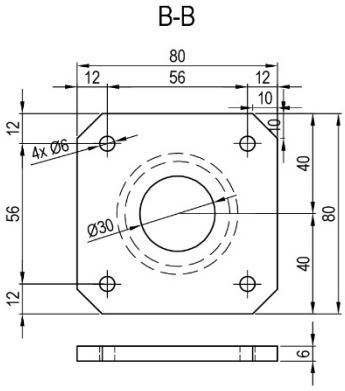
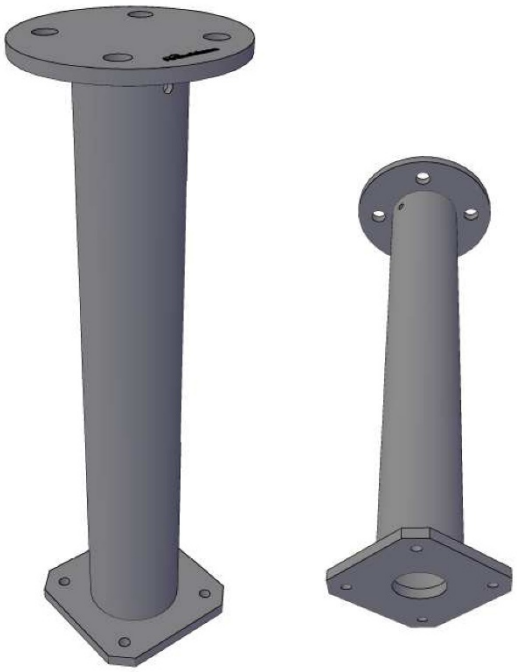
Typ M70_3, M70_4









Code	Typ	H_1
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TYPP10500	P10_2	500

All dimension in mm

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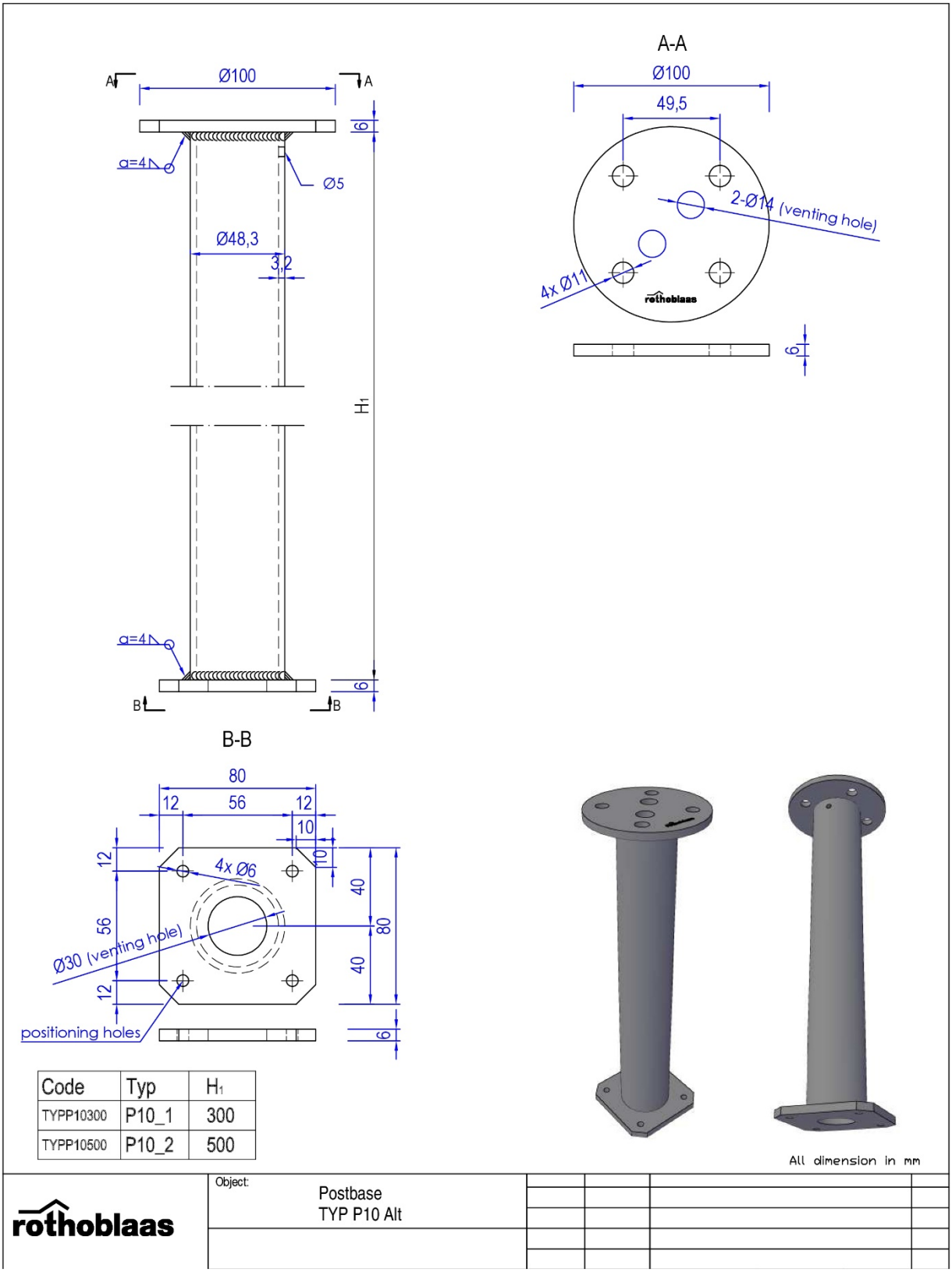
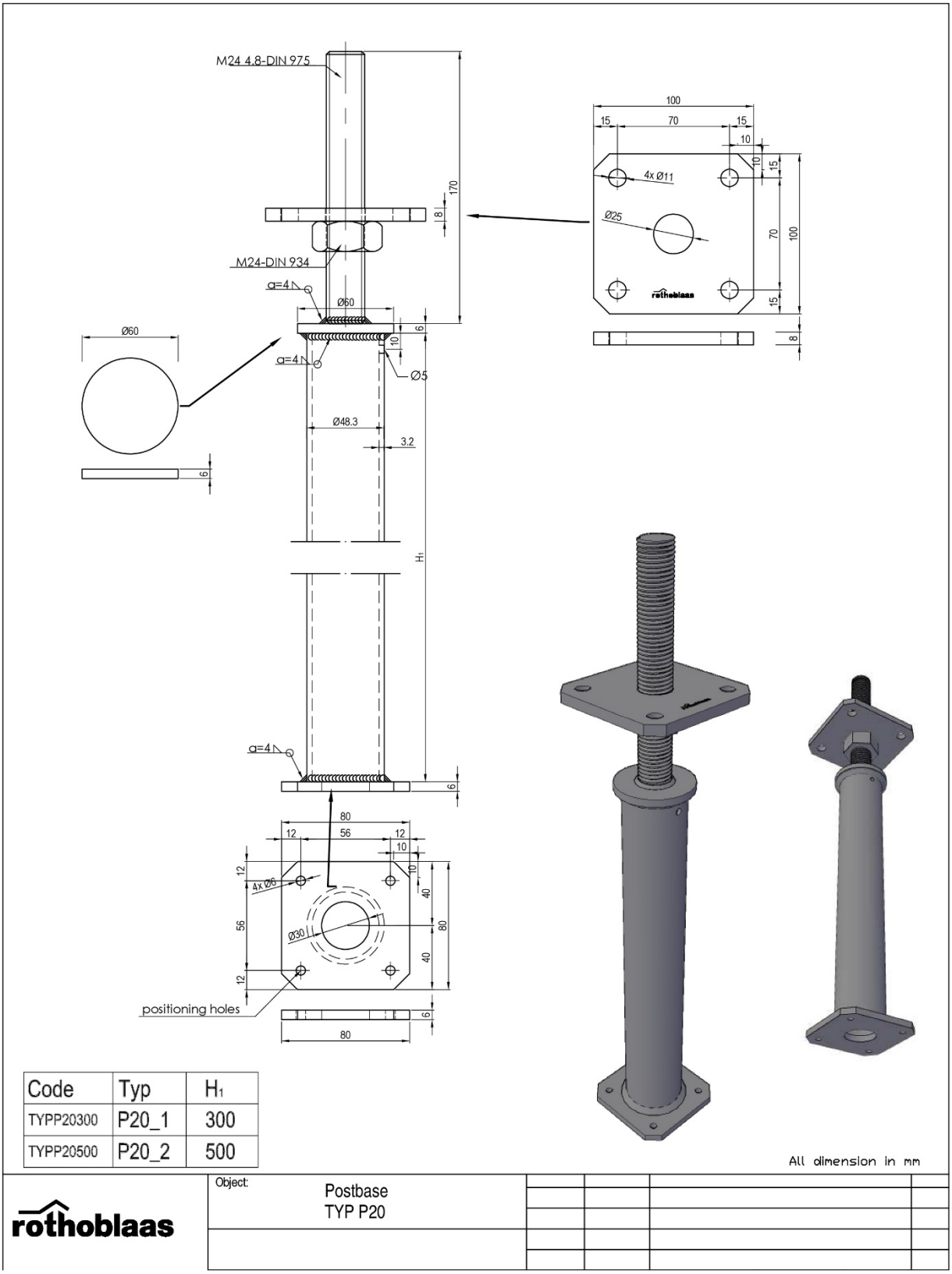
Object: Postbase TYP P10



Code	Typ	H_1
TYPP10300	P10_1	300
TYPP10500	P10_2	500

Post base type P10_1 Alt and P10_2 Alt



Code	Typ	H_1
TYPP20300	P20_1	300
TYPP20500	P20_2	500

All dimension in mm

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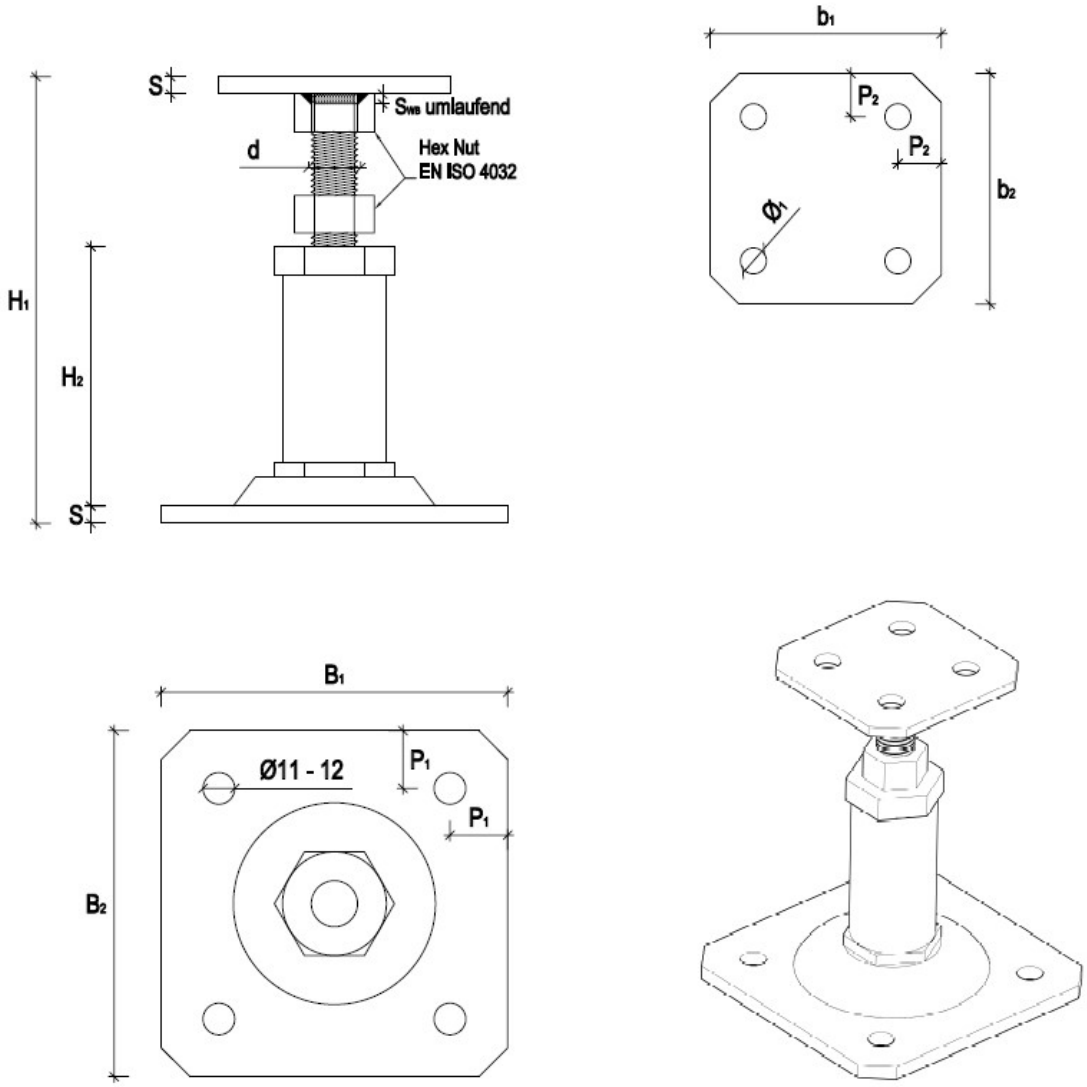
Object: Postbase TYP P20



Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	P_2	$Ø_1$	S_{WB}
R10_1	120	120	6	80	80	$^{130}/_{165}$	90	16	20	15	9	4
R10_2	160	160	6	100	100	$^{160}/_{205}$	110	20	20	20	11	4
R10_3	200	200	8	140	140	$^{190}/_{250}$	130	24	20	20	11	4

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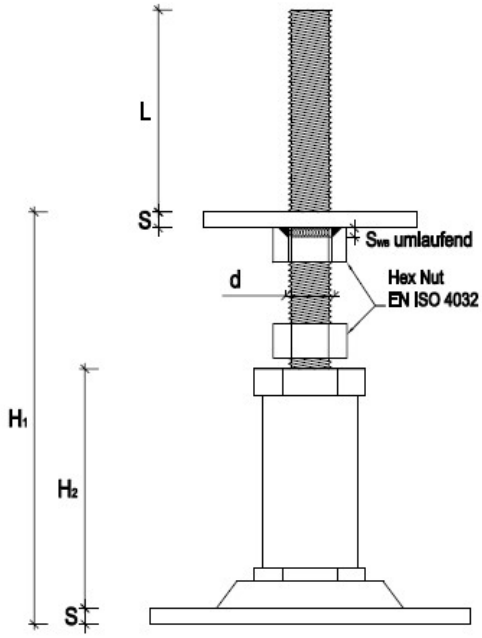
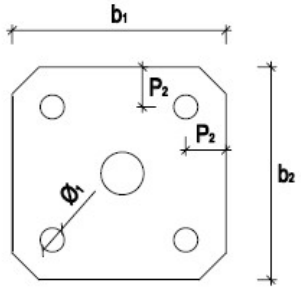
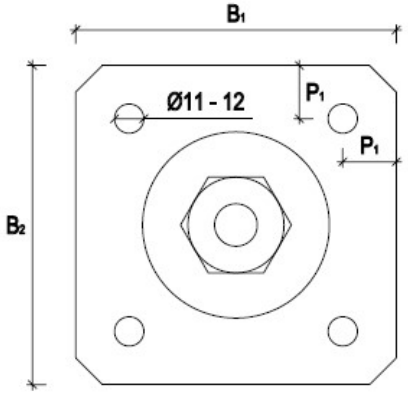
Product:

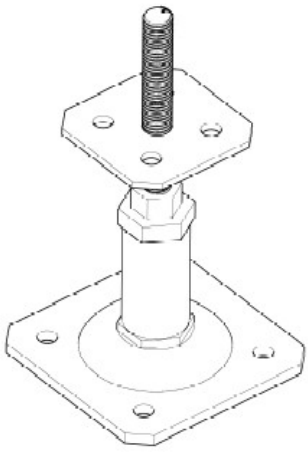
Typ R10

Adjustable Post base









Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	P_2	$Ø_1$	L	S_{WB}
R20_1	120	120	6	80	80	$^{130}/_{165}$	90	16	20	15	9	80	4
R20_2	160	160	6	100	100	$^{160}/_{205}$	110	20	20	20	11	120	4
R20_3	200	200	8	140	140	$^{190}/_{250}$	130	24	20	20	11	150	4

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Product:

Typ R20

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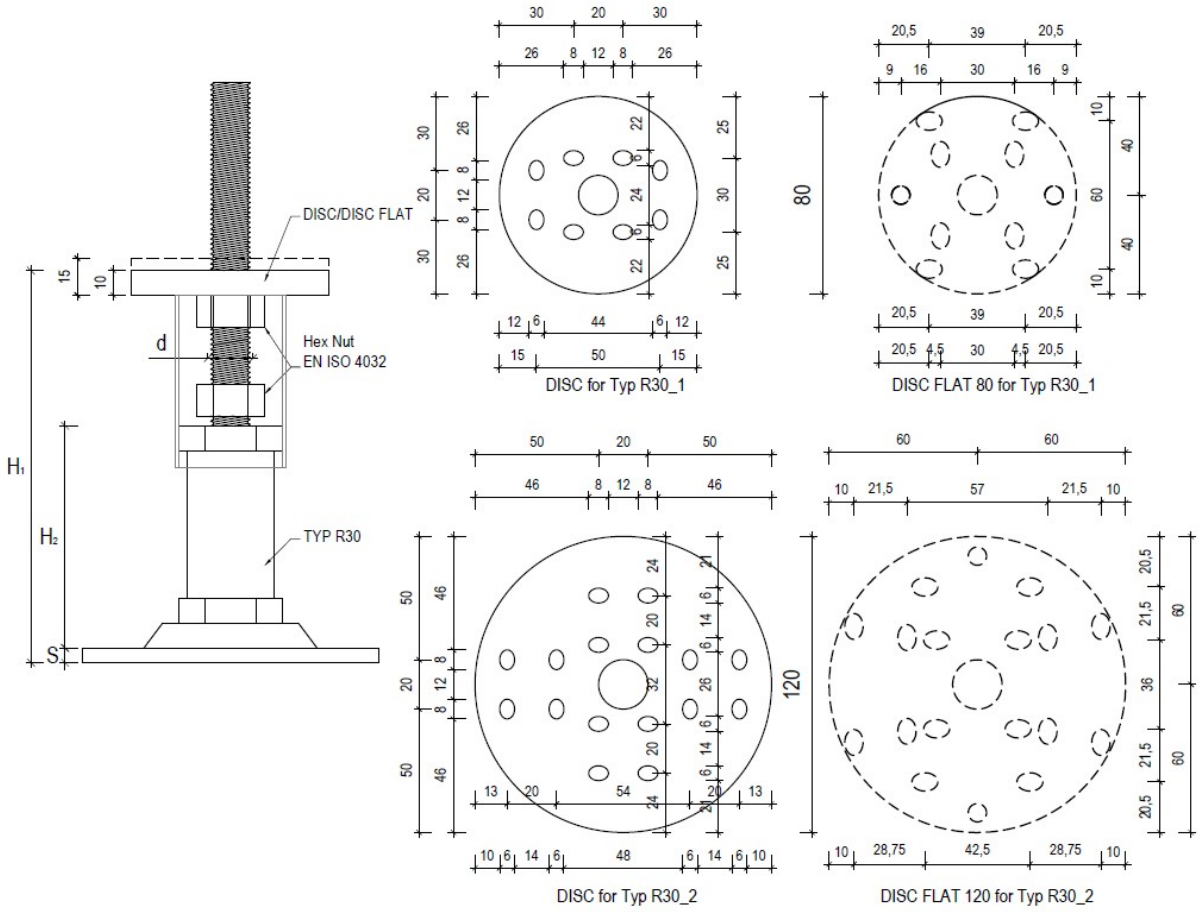

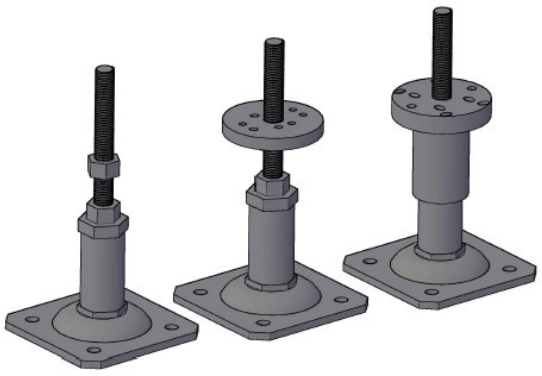

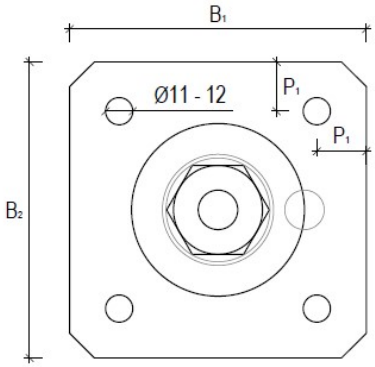

Typ	B_1	B_2	S	H_1	H_2	d	P_1	S_{WB}
R30_1	120	120	6	$^{135}/_{170}$	90	16	20	4
R30_2	160	160	6	$^{165}/_{210}$	110	20	20	4

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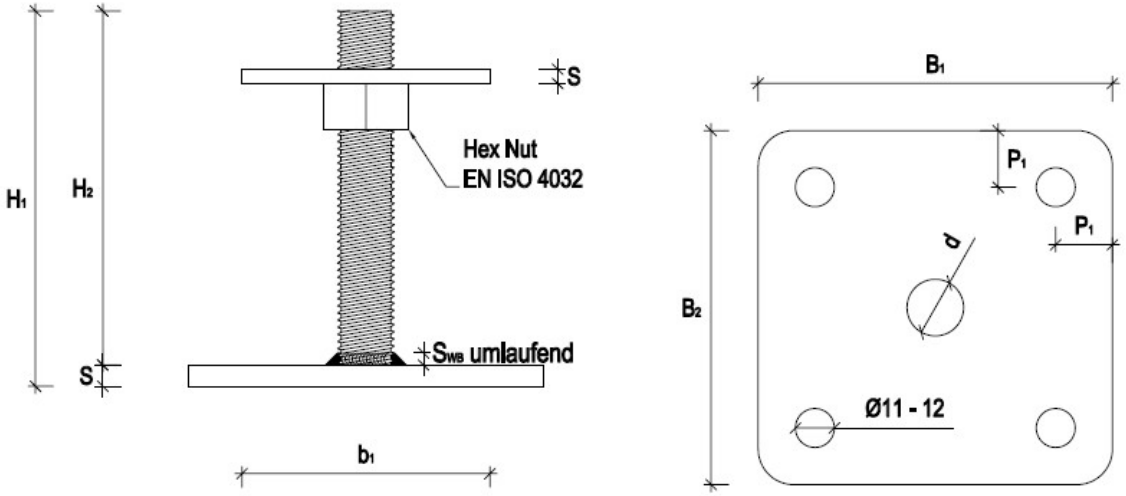
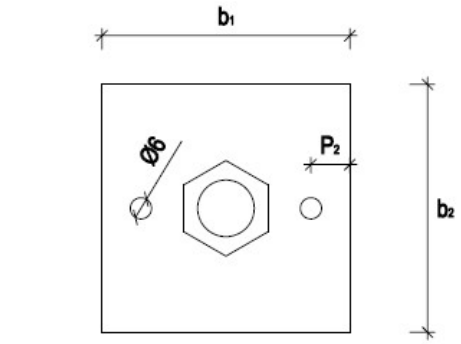
Product:

Typ R30
with Disc or Disc Flat

Adjustable Post base





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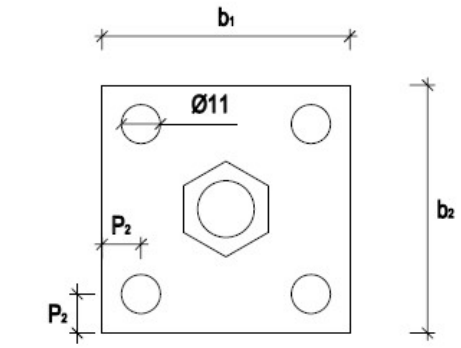
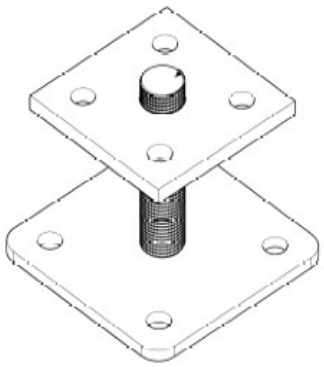


Typ R40_2 - Typ R40_3 - typ R40_4



Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	P_2	S_{WB}
R40_1	100	100	6	70	70	105	99	16	15	10	4
R40_2	100	100	6	80	80	105	99	20	15	15	4
R40_3	160	100	6	100	100	156	150	20	20	20	4
R40_4	160	100	6	100	100	256	250	24	20	20	4

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Product:

Typ R40

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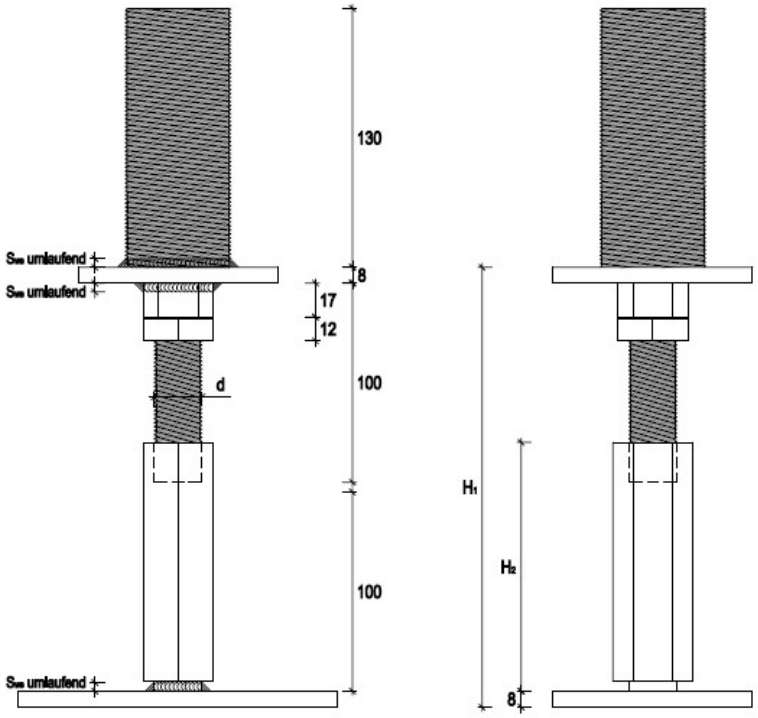

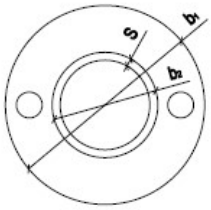

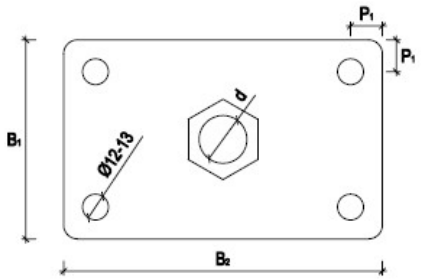

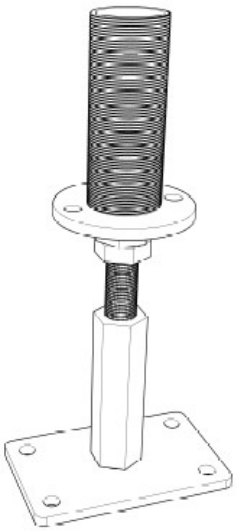

Typ	B_1	B_2	d	b_1	b_2	S	H_1	H_2	P_1	S_{WB}
R50_1	160	100	24	100	44.5	4	$^{170}/_{285}$	125	15	4
R50_2	160	100	24	100	44.5	4	$^{110}/_{210}$	65	15	4

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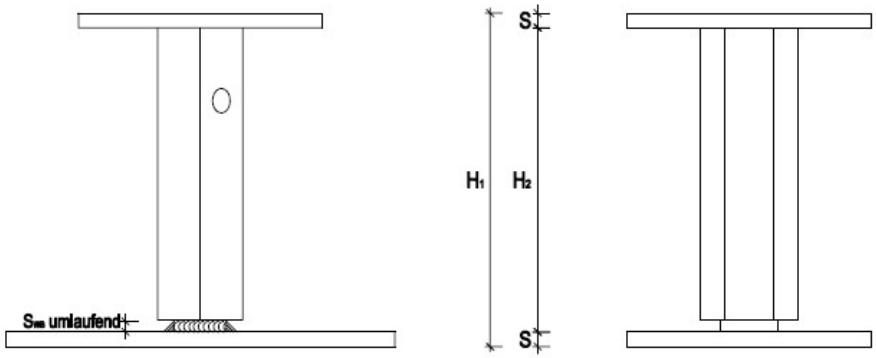
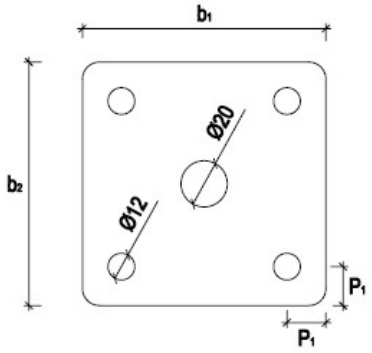
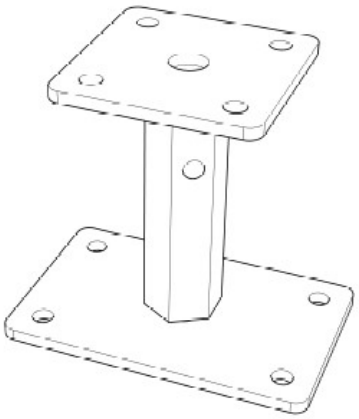
Product:

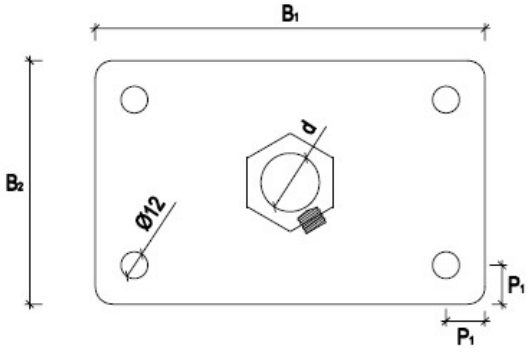
Typ R50

Post base









Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	S_{WB}
R60_1	160	100	6	100	100	140/200	125	24	15	3

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Product:

Typ R60

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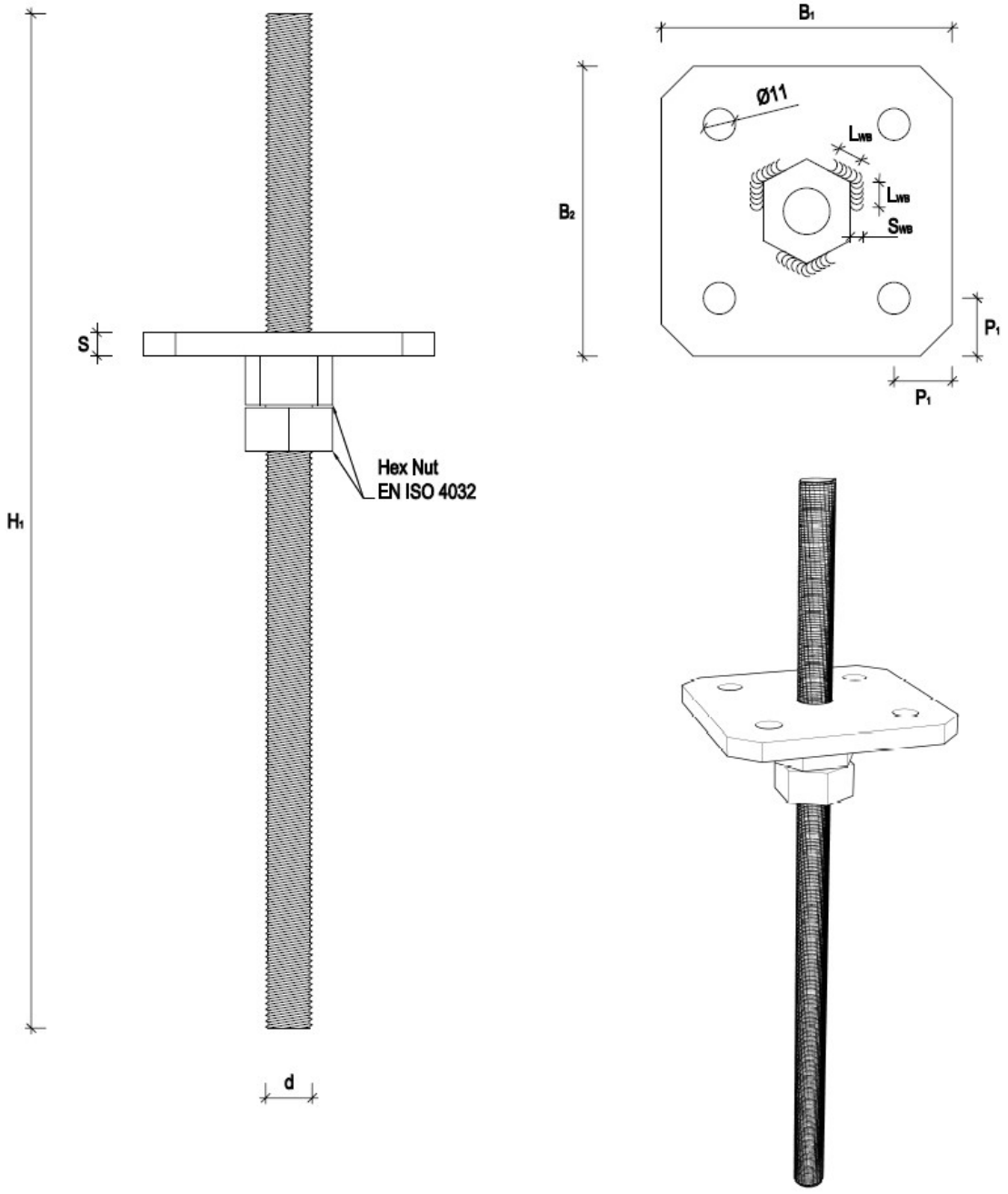

Typ	B_1	B_2	S	H_1	d	P_1	S_{WB}	L_{WB}
R70_1	100	100	8	350	20	20	4	5
R70_2	140	140	8	450	24	20	4	8
R70_3	100	100	8	350	16	20	4	5

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Product:

Typ R70

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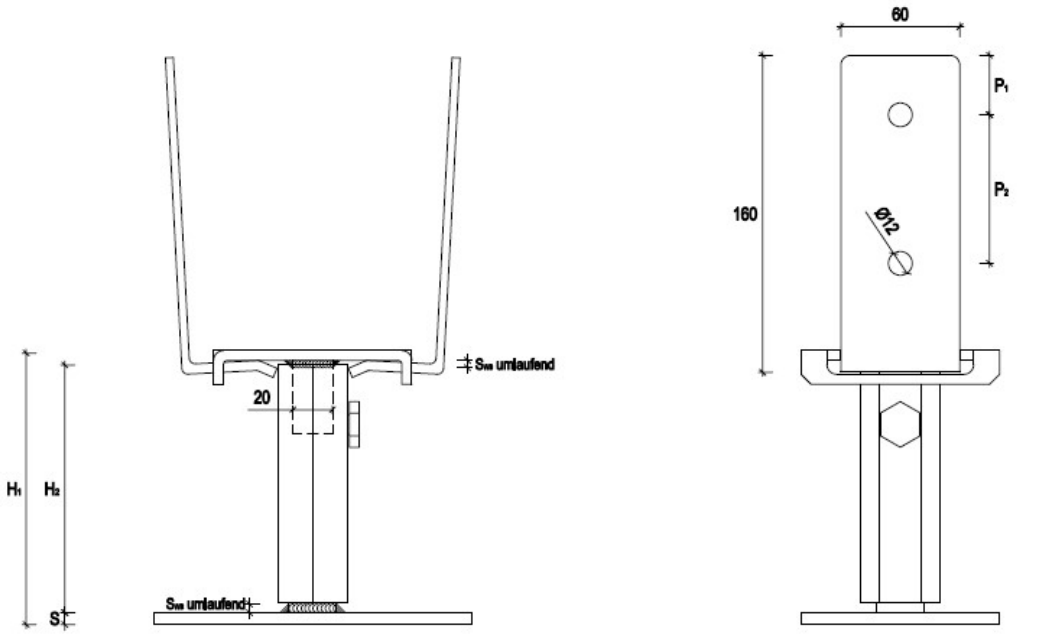

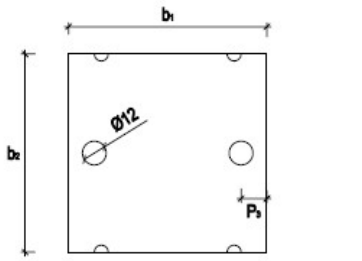

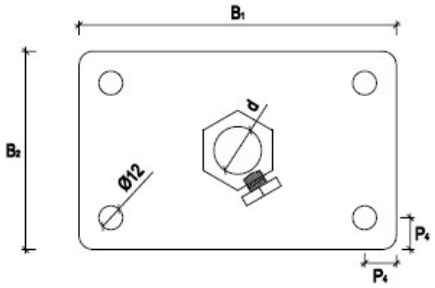

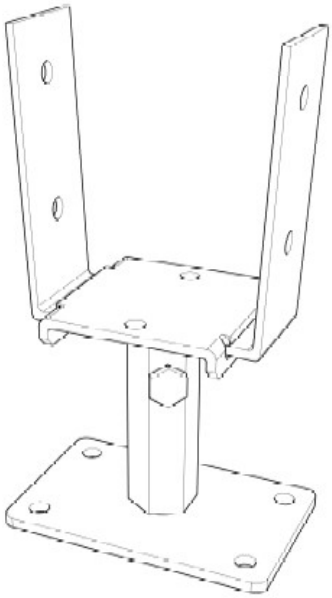

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	P_2	P_3	P_4	S_{WB}
R80_1	160	100	6	100	100	140/200	125	24	30	75	15	15	4

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Product:

Typ R80

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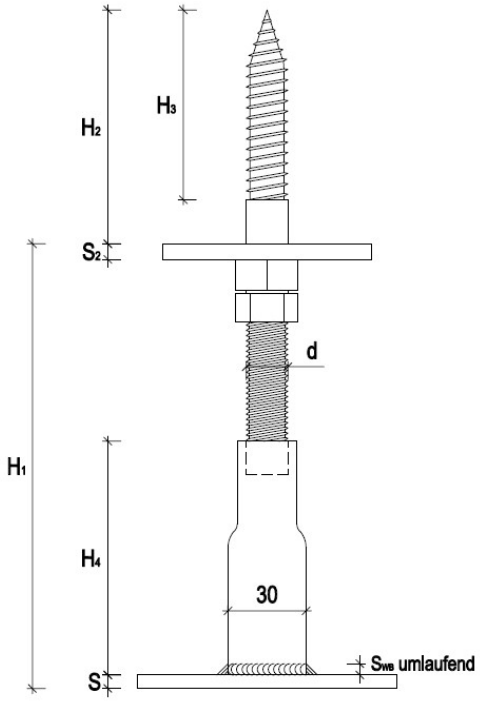

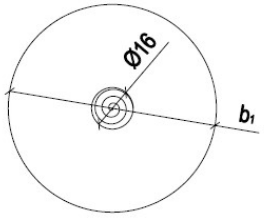

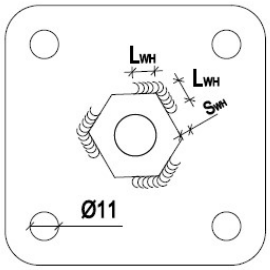

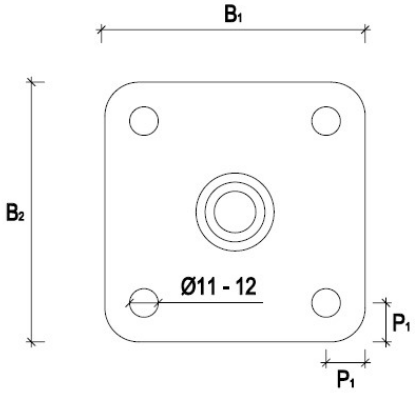

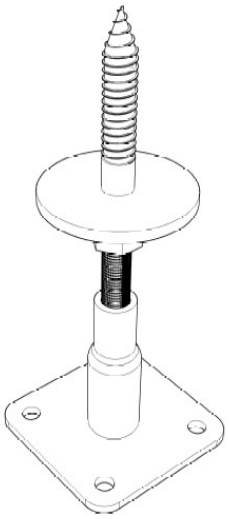

Typ	B_1	B_2	S	S_2	b_1	H_1	H_2	H_3	H_4	d	P_1	S_{WB}	S_{WH}	L_{WH}
R90_1	100	100	5	6	80	$^{130}/_{170}$	90	70	90	16	15	4	4	8

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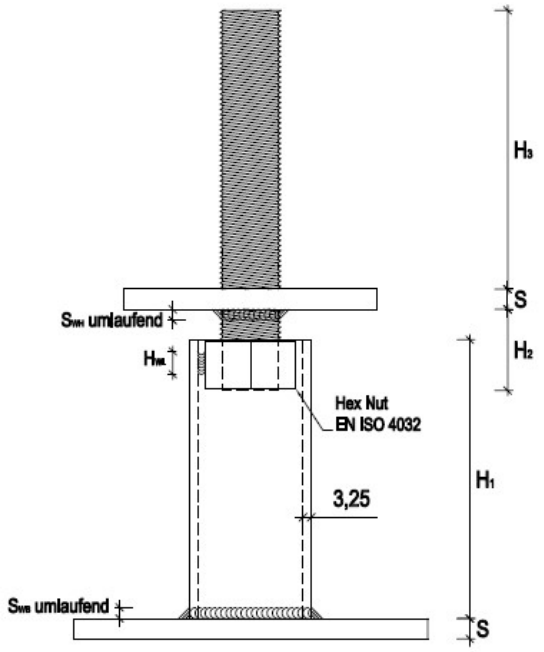
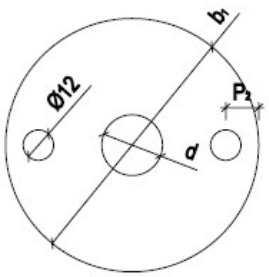
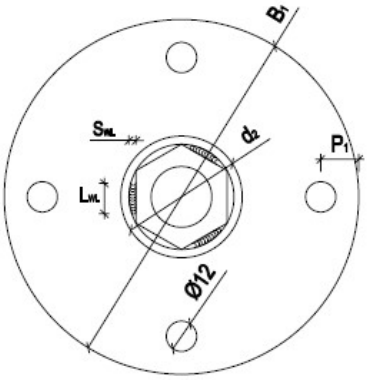
Product:

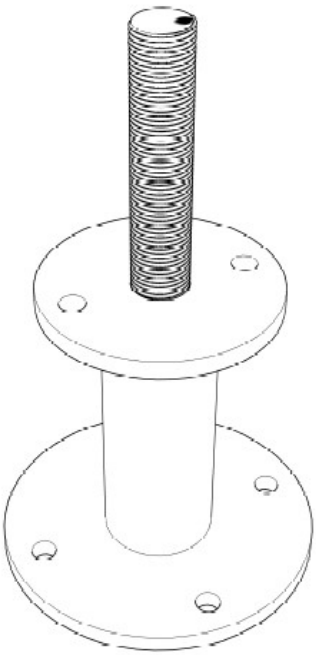
Typ R90

Post base









Typ	B_1	S	b_1	d	d_2	H_1	H_2	H_3	P_1	P_2	S_{WB}	S_{WH}	S_{WL}	H_{WL}	L_{WL}
S10_1	140	8	100	24	48,3	110	35	110	15	15	5	5	5	10	10
S10_2	140	8	100	24	48,3	145	35	110	15	15	5	5	5	10	10

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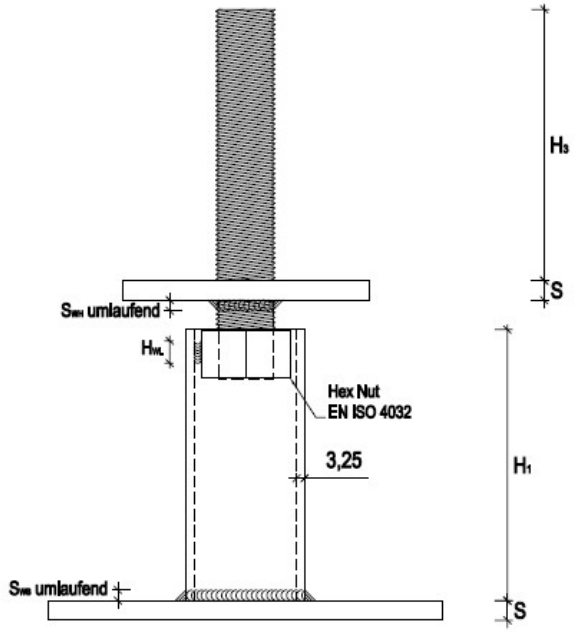
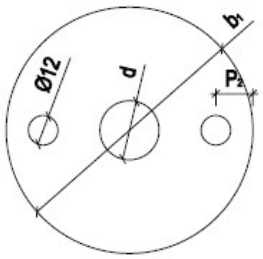
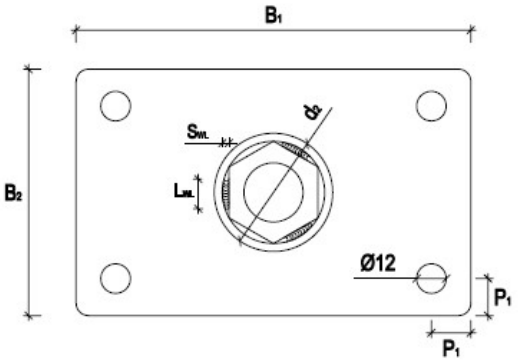
Product:

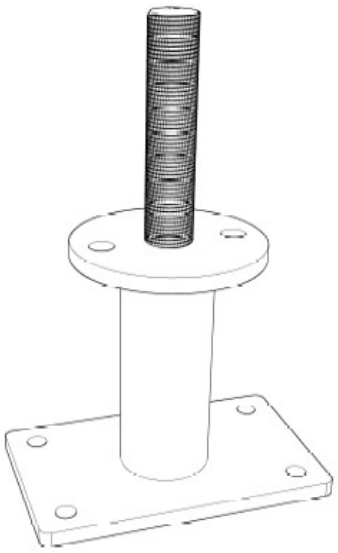
Typ S10

Post base









Typ	B_1	B_2	S	b_1	d	d_2	H_1	H_2	H_3	P_1	P_2	S_{WB}	S_{WH}	S_{WL}	H_{WL}	L_{WL}
S20_1	160	100	8	100	24	48.3	110	35	110	15	15	5	5	5	10	10
S20_2	160	100	8	100	24	48.3	145	35	110	15	15	5	5	5	10	10

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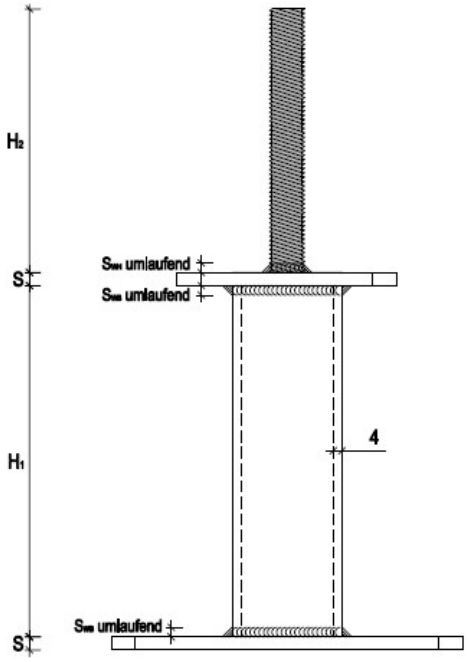

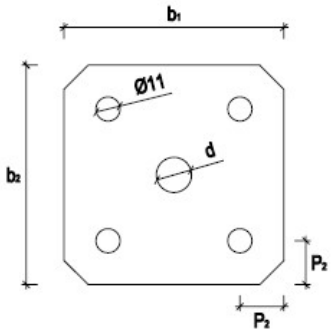

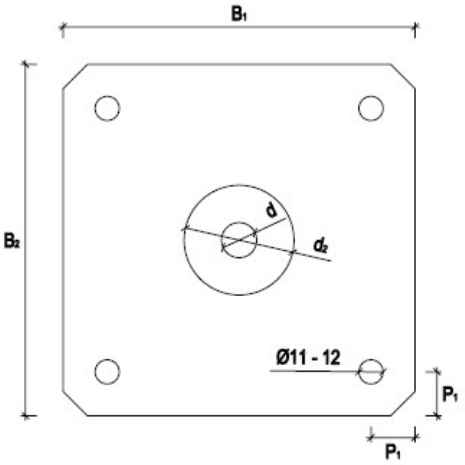

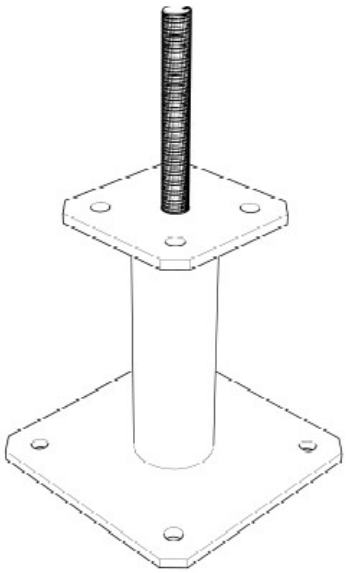

Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	d_2	P_1	P_2	S_{WB}	S_{WH}
S30_1	160	160	6	100	100	160	120	16	50	20	20	5	5
S30_2	200	200	8	140	140	160	150	20	80	20	20	5	5
S30_3	160	160	6	100	100	120	120	16	50	20	20	5	5
S30_4	200	200	8	140	140	160	120	20	80	20	20	5	5

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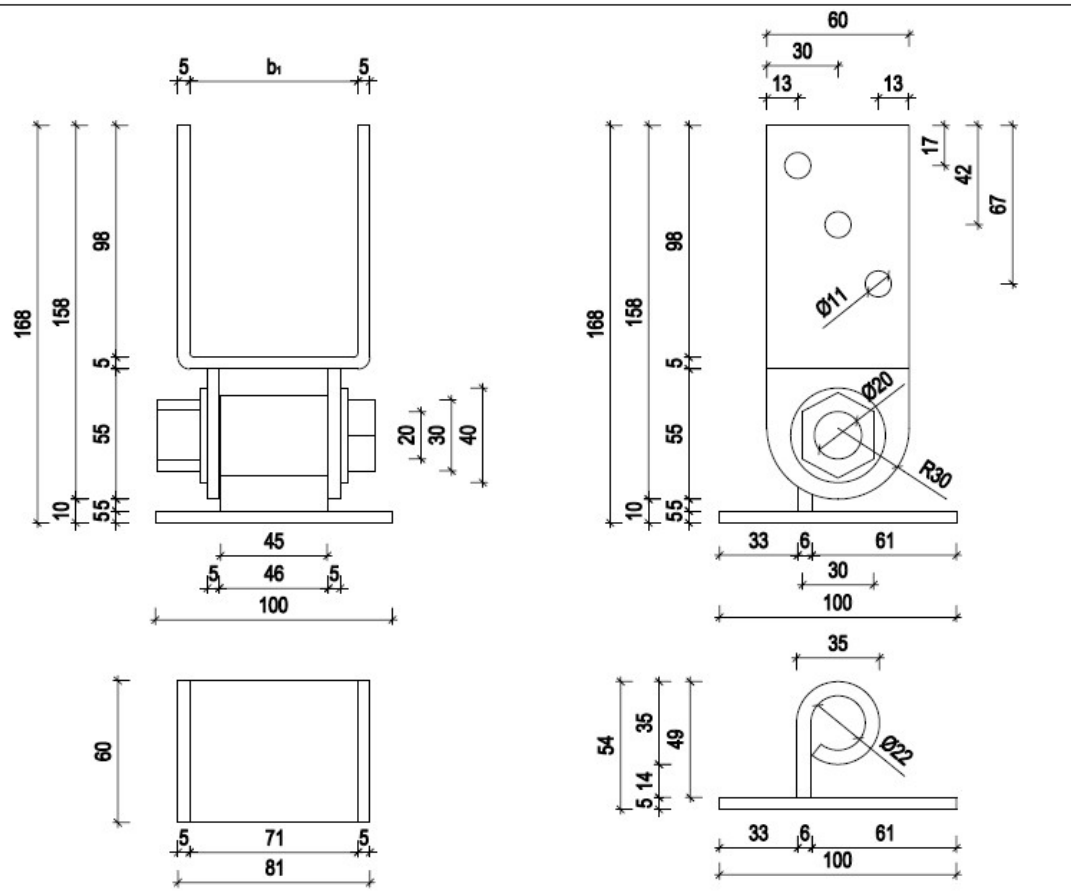

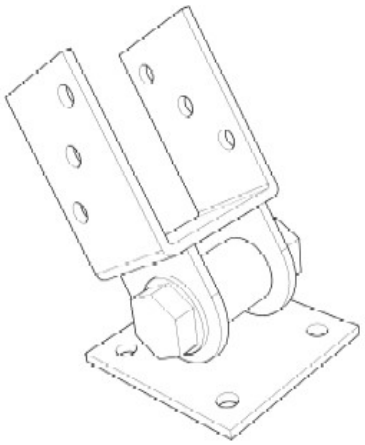

Typ	b1
S40_1	71
S40_2	91

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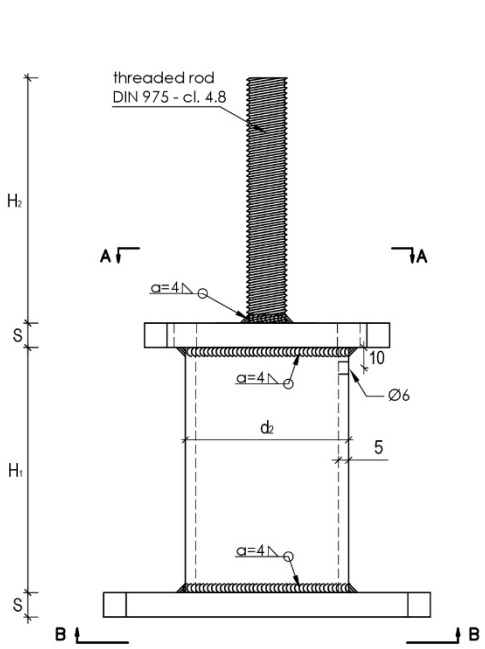

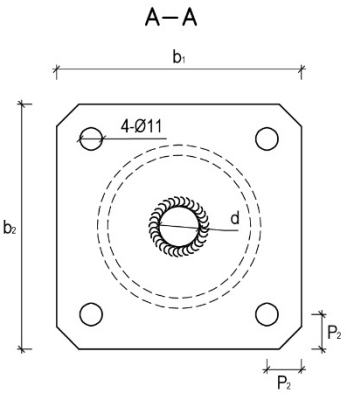

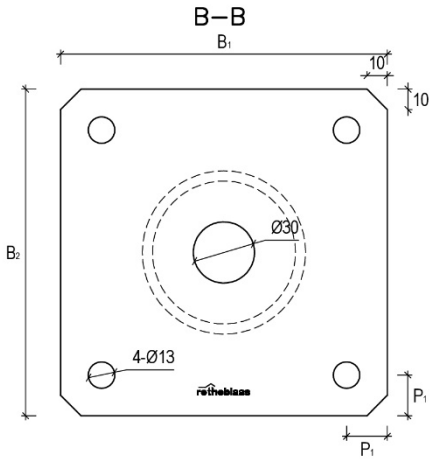

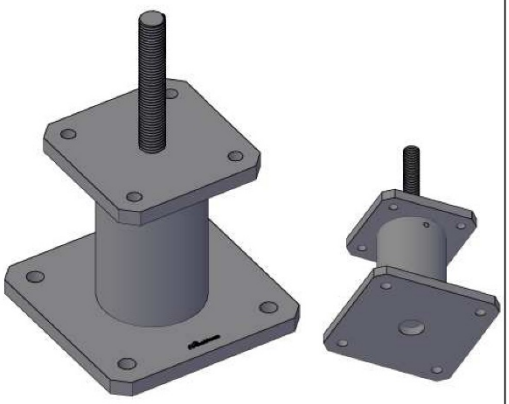

Code	Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	d_2	P_1	P_2
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TYPS501218	S50_2	160	160	12	120	120	180	120	M20	Ø80	17	17
TYPS501618	S50_3	200	200	14/15/16	160	160	180	150	M24	Ø100	20	20
TYPS501624	S50_4	200	200	14/15/16	160	160	240	150	M24	Ø100	20	20

All dimension in mm

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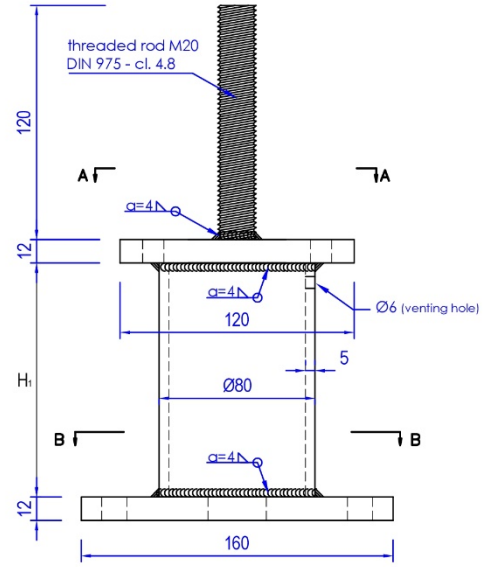
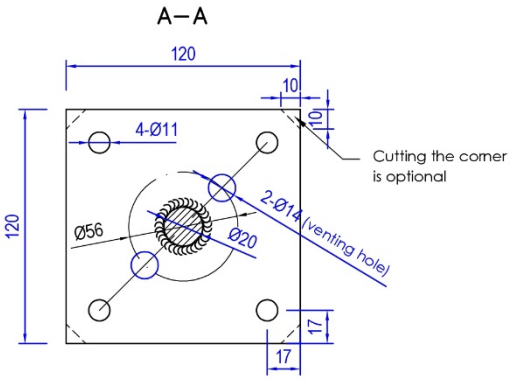
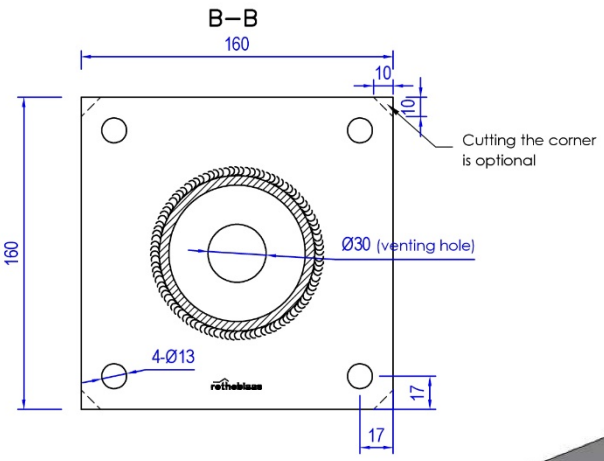
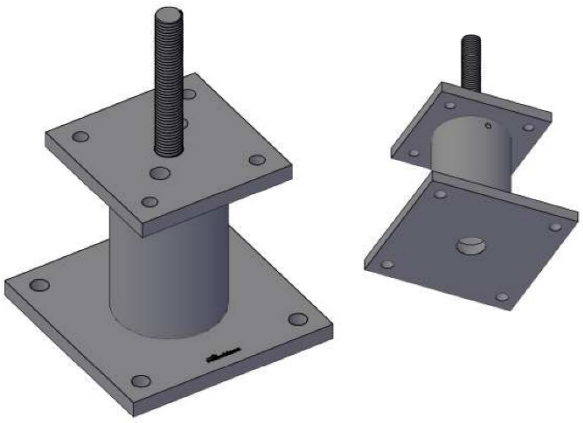
Object: Postbase
TYP S50





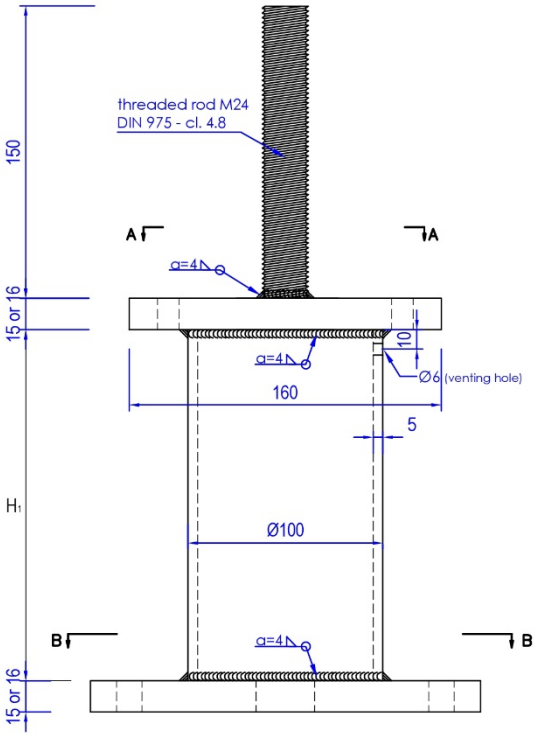


Code	Typ	H_1
TYPS501212	S50_1	120 mm
TYPS501218	S50_2	180 mm

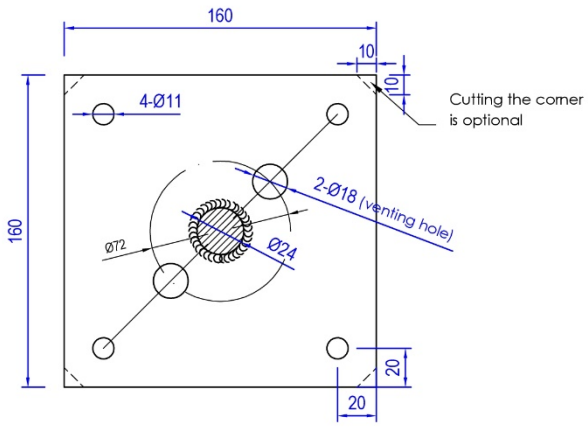


All dimension in mm

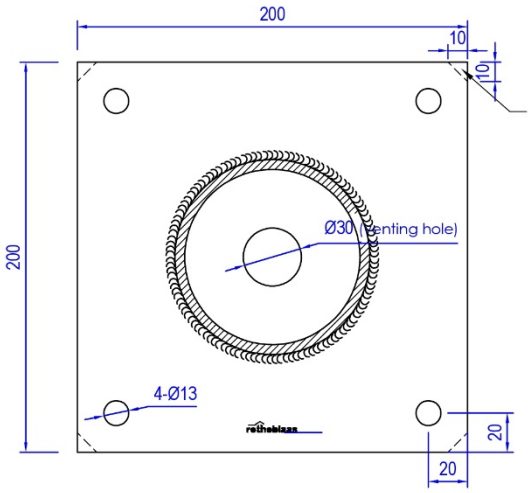
rothoblaas	Object: Postbase TYP S50_1 Alt and TYP S50_2 Alt				

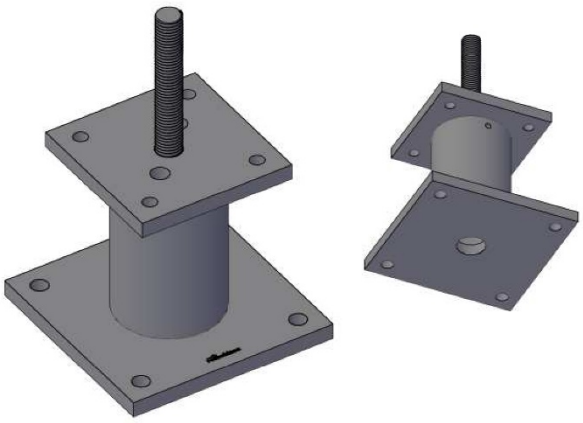


B–B



Logo: 31,1 × 7,2



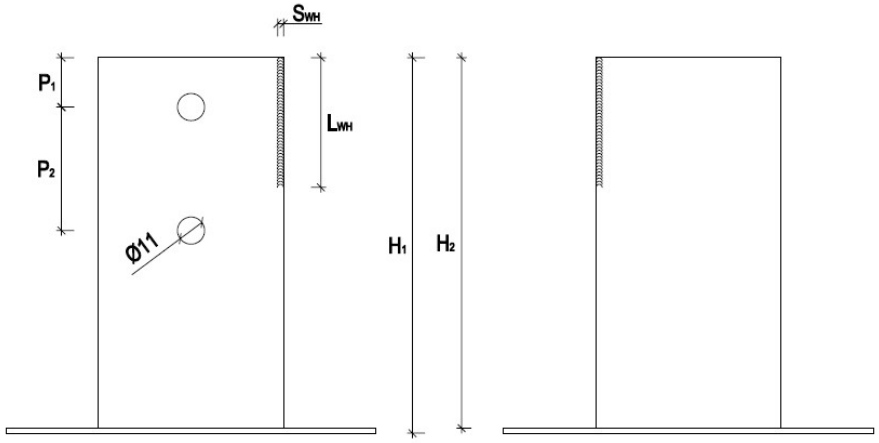


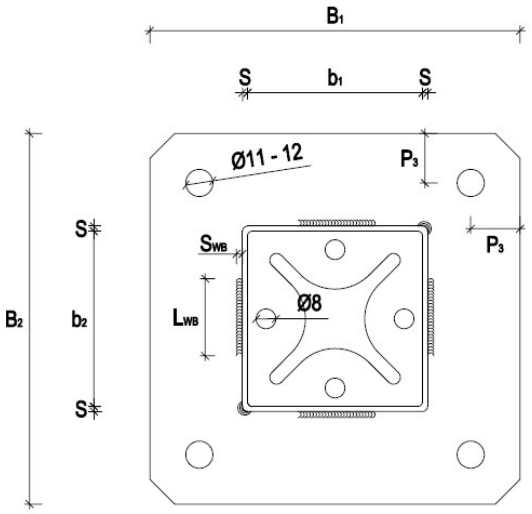
Code	Typ	H_1
TYPS501618	S50_3	180 mm
TYPS501624	S50_4	240 mm

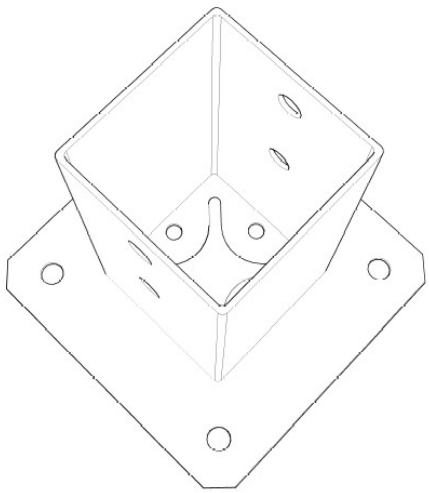
All dimension in mm

rothoblaas

Object: Postbase
TYP S50_3 Alt and TYP S50_4 Alt







Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	L_{WB}	S_{WB}	L_{WH}	S_{WH}
F10_1	150	150	2.0	71	71	152	150	20	50	20	30	2.5	80	2.0
F10_2	150	150	2.0	91	91	152	150	20	50	15	30	2.5	80	2.0

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info@rothoblaas.com

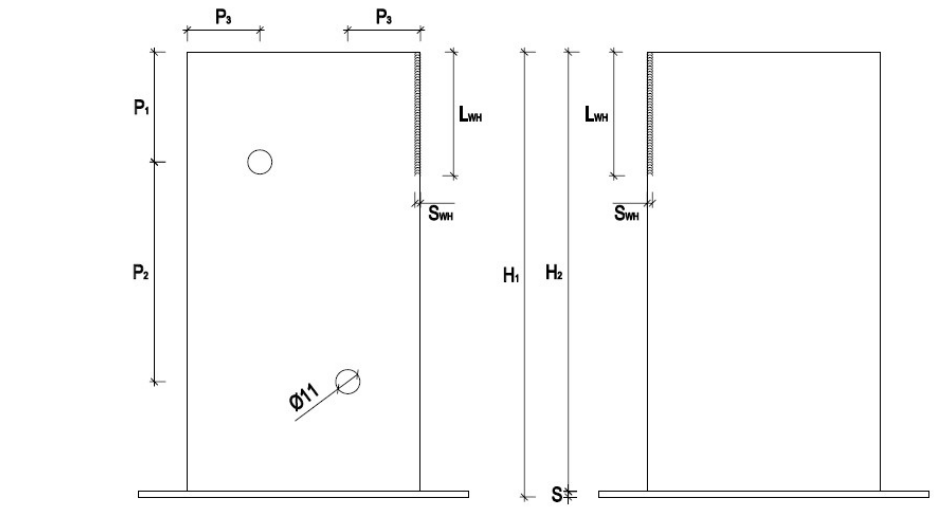
Product:

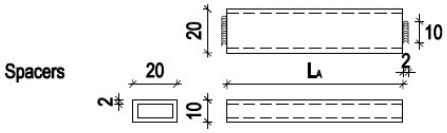
Typ FI10

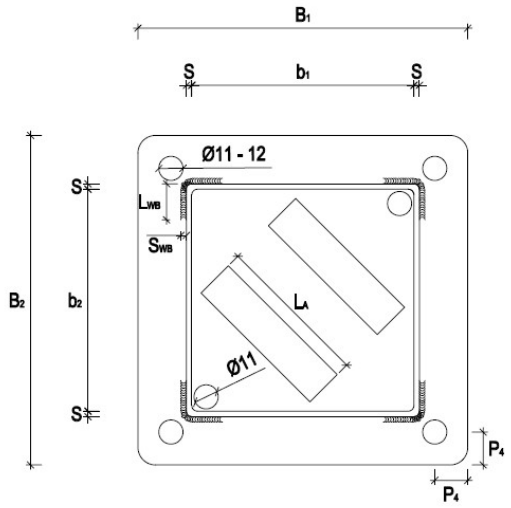
Post base

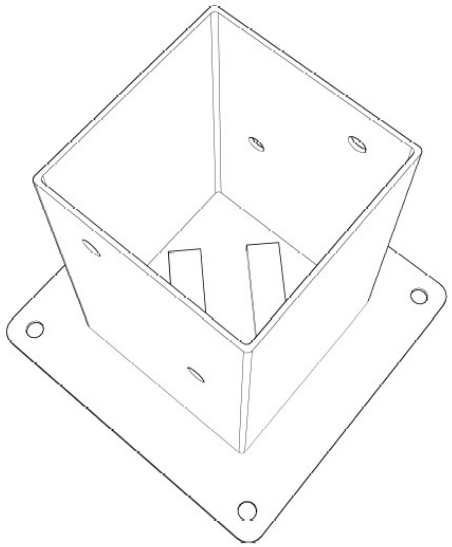
Material:

Stainless steel 1.4301









Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	P_1	P_2	P_3	P_4	L_{WB}	S_{WB}	L_{WH}	S_{WH}	$L_{A,mir}$
F50_1	150	150	2.5	101	101	152.5	150	30	70	30	15	20	2.5	70	2.5	70
F50_2	200	200	2.5	121	121	152.5	150	30	70	35	15	25	2.5	70	2.5	80
F50_3	200	200	2.5	141	141	152.5	150	30	70	40	15	30	2.5	70	2.5	100
F50_4	240	240	2.5	161	161	202.5	200	50	100	45	15	30	2.5	70	2.5	100
F50_5	280	280	2.5	181	181	202.5	200	50	100	50	25	40	2.5	70	2.5	100
F50_6	300	300	2.5	201	201	202.5	200	50	100	55	25	40	2.5	75	2.5	110

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info@rothoblaas.com

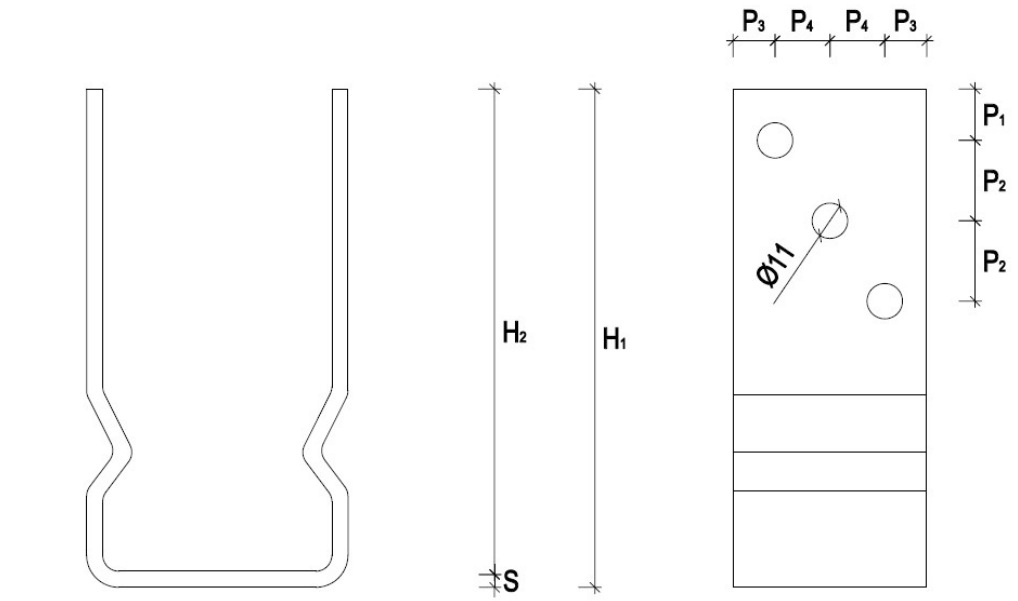
Product:

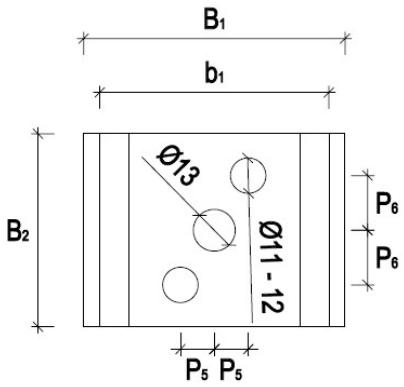
Typ FI50

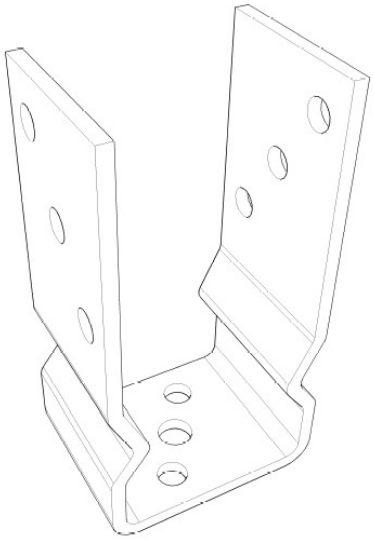
Post base

Material:

Stainless steel 1.4301







Typ	B_1	B_2	S	b_1	H_1	H_2	P_1	P_2	P_3	P_4	P_5	P_6
M20_1	81	60	5.0	71	155	150	16	25	13	17	10.5	17
M20_2	101	60	5.0	91	155	150	16	25	13	17	20.5	17
M20_3	111	60	5.0	101	155	150	16	25	13	17	25.5	17
M20_4	131	60	5.0	121	155	150	16	25	13	17	35.5	17

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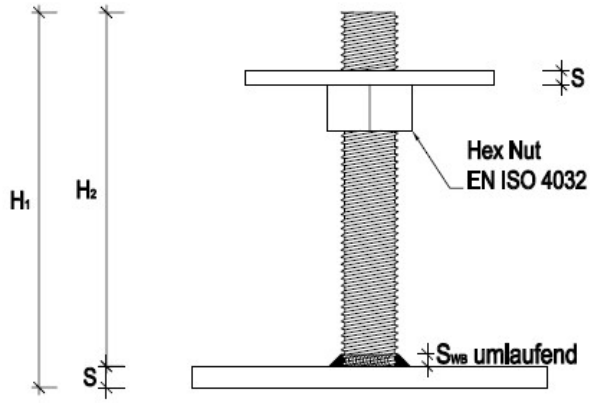
Product:

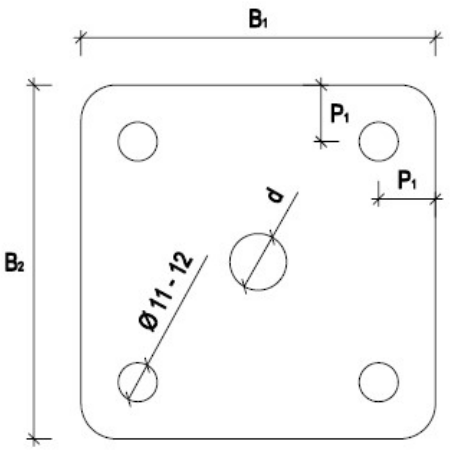
Typ MI20

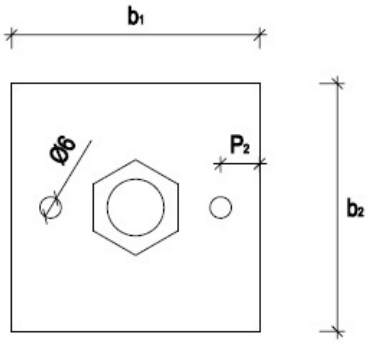
Post base

Material:

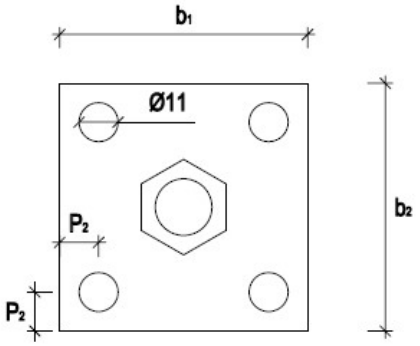
Stainless steel 1.4301



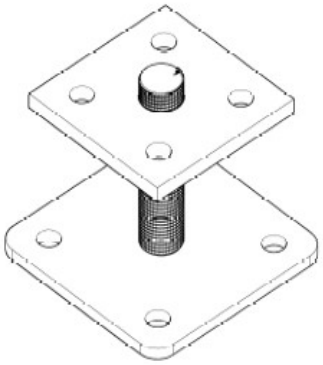




Typ R40_1



Typ R40_2 - Typ R40_3 - typ R40_4



Typ	B_1	B_2	S	b_1	b_2	H_1	H_2	d	P_1	P_2	S_{WB}
R40_1	100	100	6	70	70	105	99	16	15	10	4
R40_2	100	100	6	80	80	105	99	20	15	15	4
R40_3	160	100	6	100	100	156	150	20	20	20	4
R40_4	160	100	6	100	100	256	250	24	20	20	4

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info@rothoblaas.com

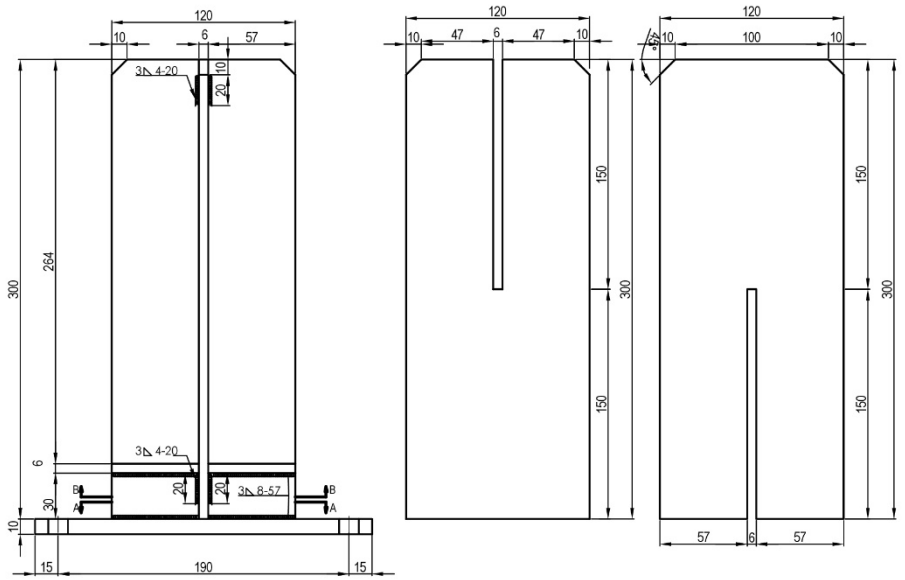
Product:

Typ RI40

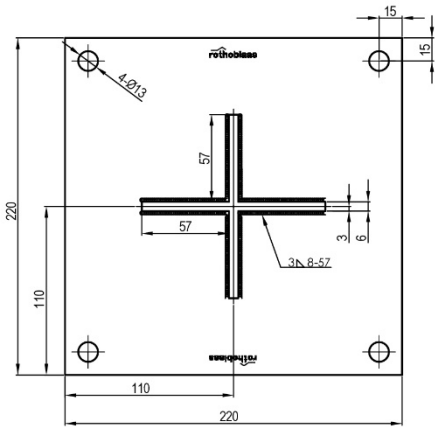
Post base

Material:

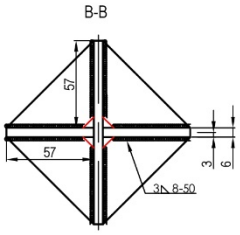
Stainless steel 1.4301

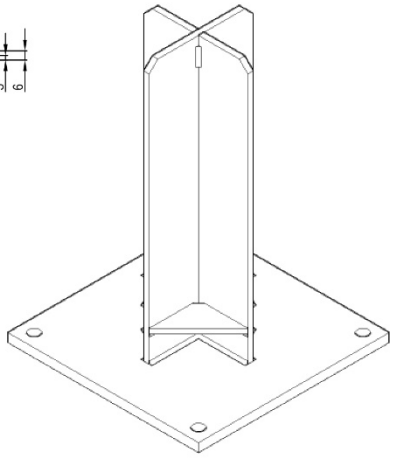


A-A



B-B

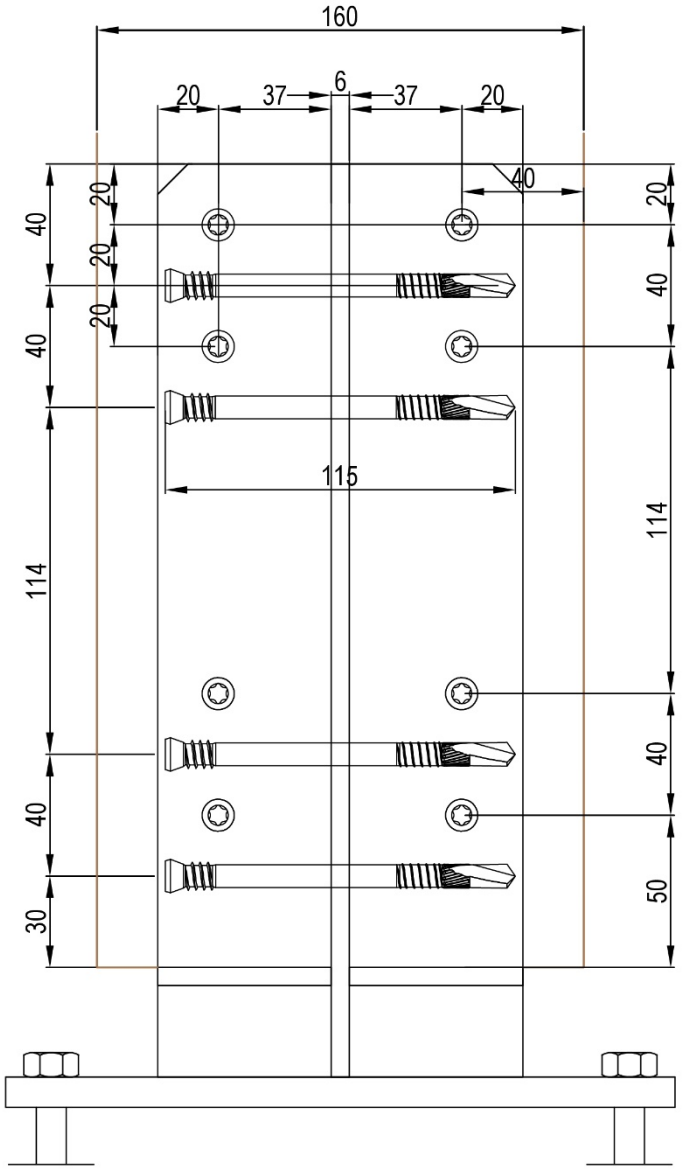




All dimension in mm

rothoblaas	Postbase TYP XS10_1				

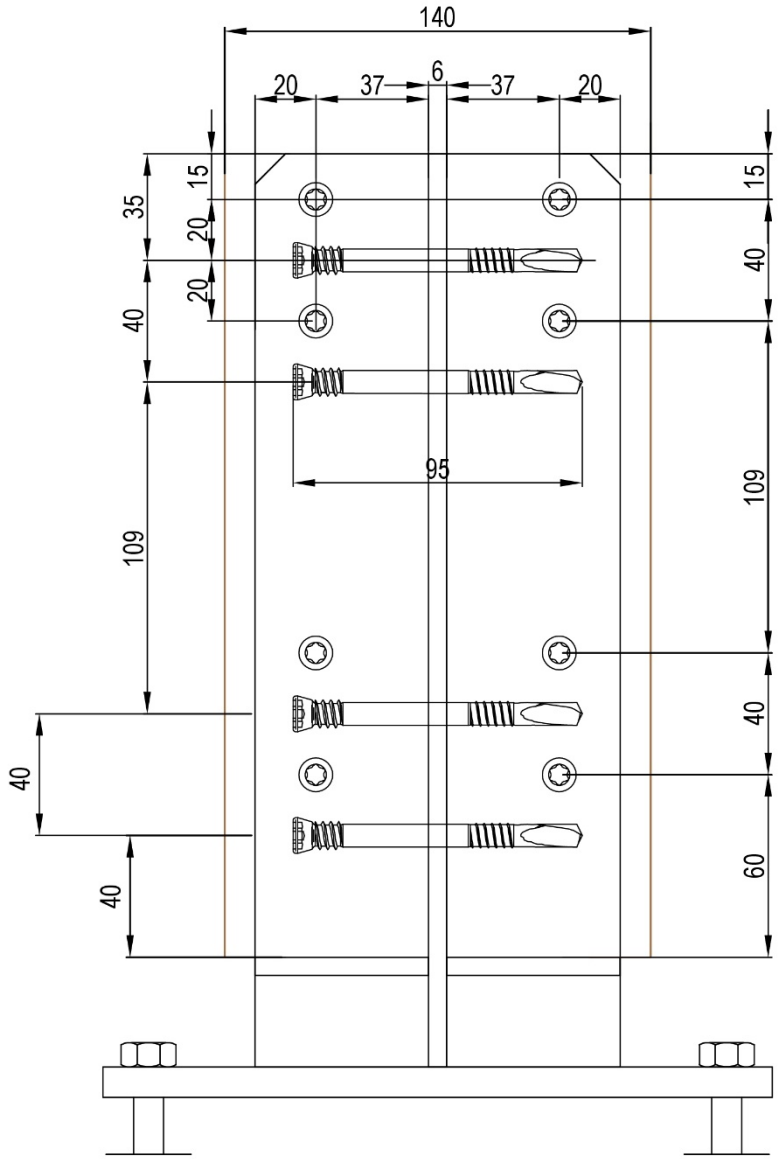
16 selftapping dowels SBD Ø7,5 x 115
Post MIN 160x160 mm



holes for concrete bolts Ø13

Object:	Postbase TYP XS10_1
Configuration:	XS10_1-16SBD115_160

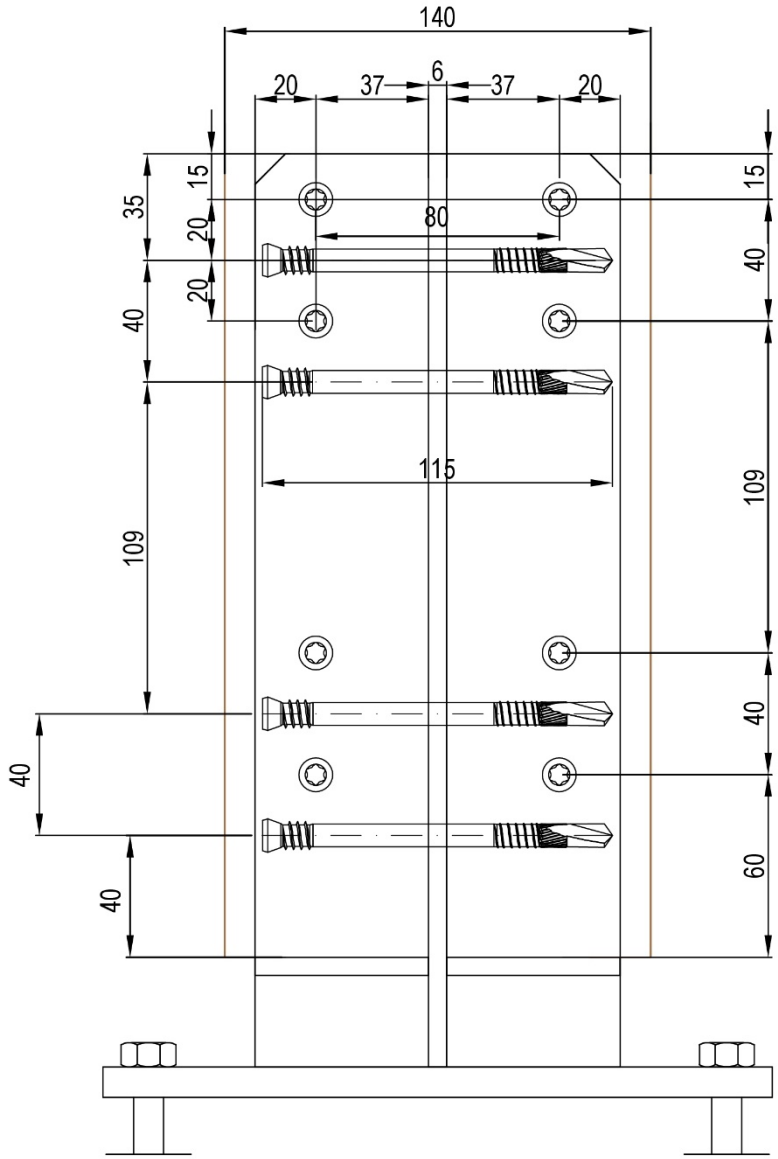
16 selftapping dowels SBD Ø7,5 x 95
Post MIN 140x140 mm



holes for concrete bolts Ø13

Object:	Postbase TYP XS10_1
Configuration:	XS10_1-16SBD95_140

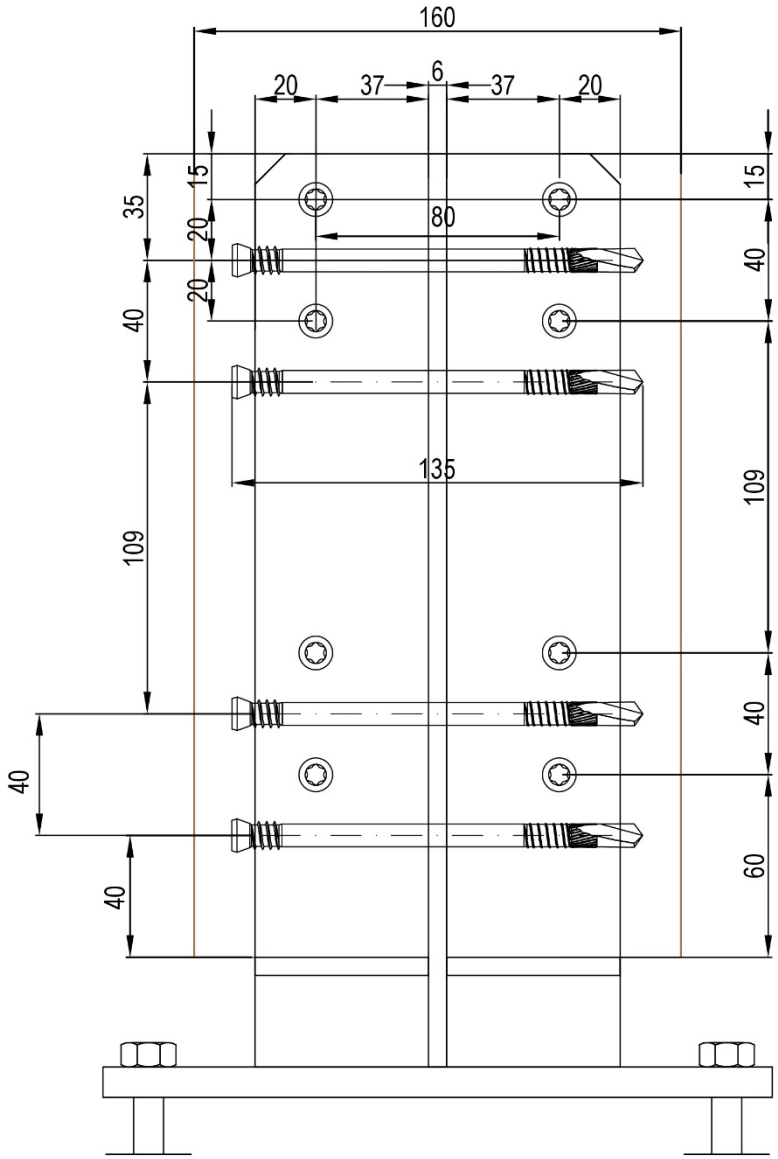
16 selftapping dowels SBD Ø7,5 x 115
Post MIN 140x140 mm



Object: Postbase TYP XS10_1

Configuration: XS10_1-16SBD115_140

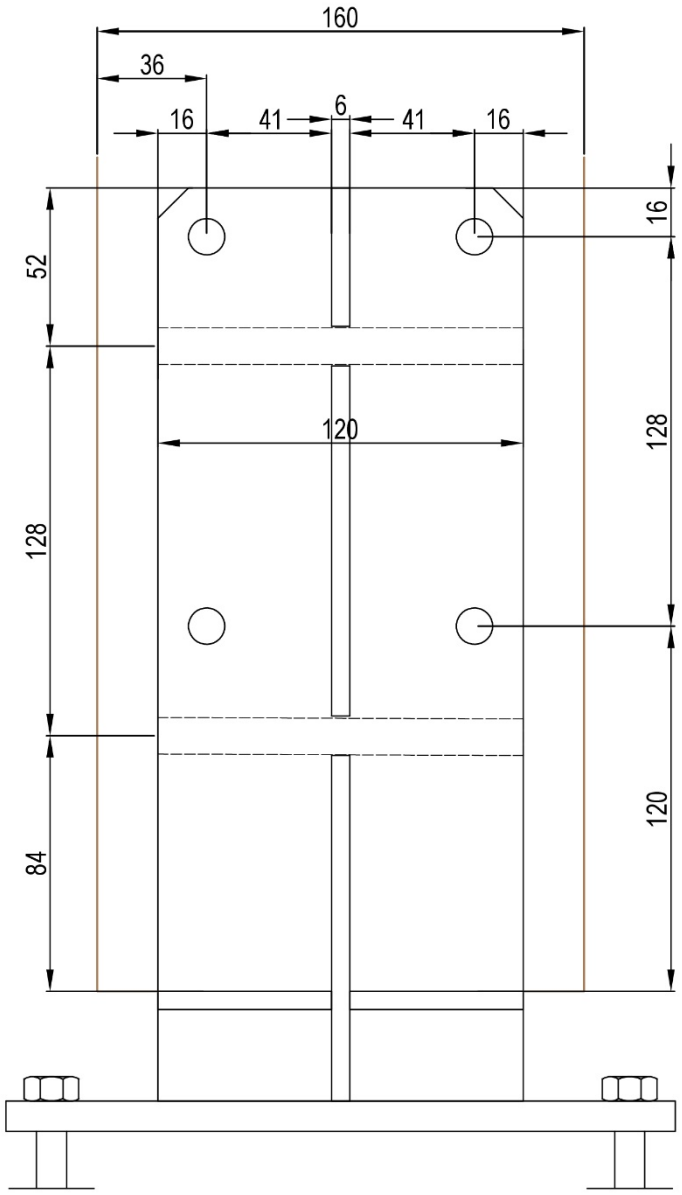
16 selftapping dowels SBD Ø7,5 x135
Post MIN 160x160 mm



holes for concrete bolts Ø13

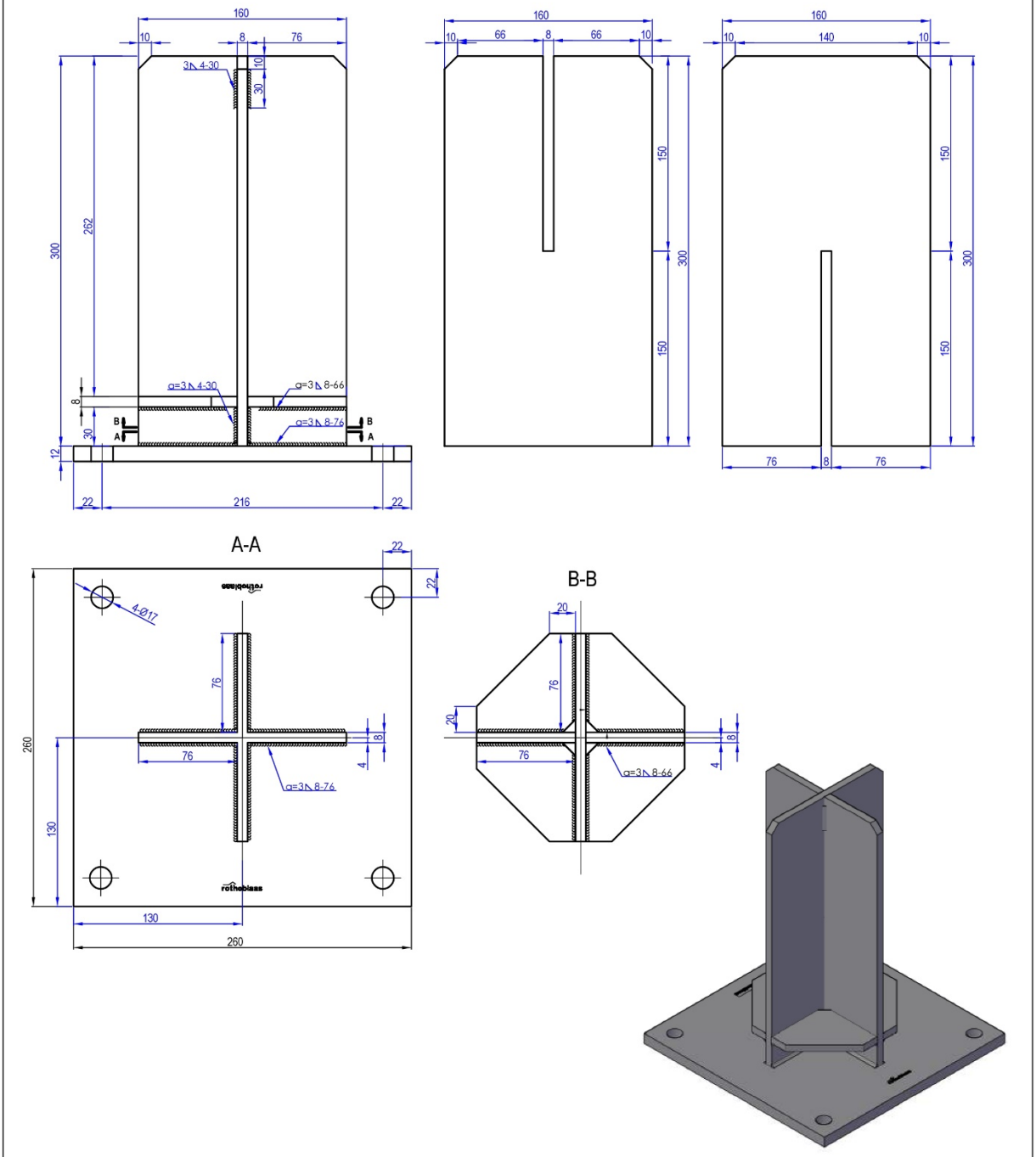
Object:	Postbase TYP XS10_1
Configuration:	XS10_1-16SBD135_160

8 smooth dowels STA Ø12 x 120
Post MIN 160x160 mm



holes for concrete bolts Ø13

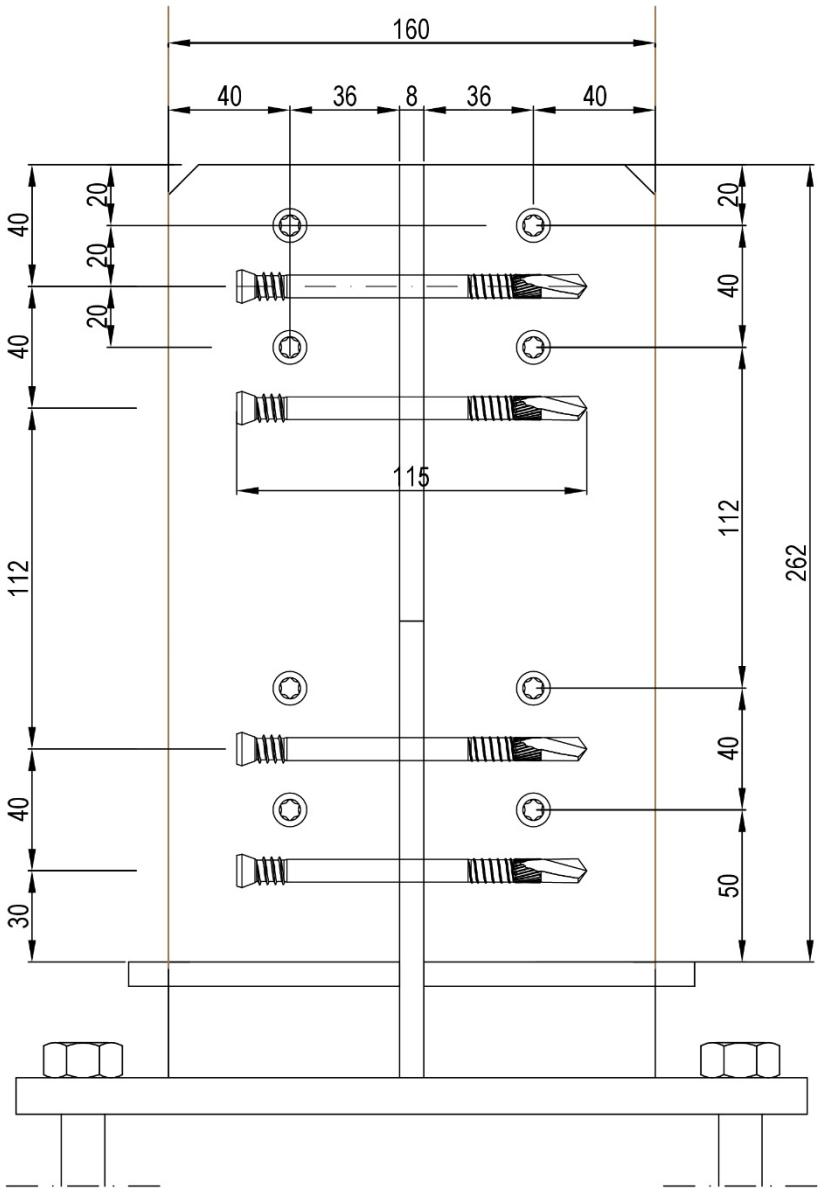
Object:	Postbase TYP XS10_1
Configuration:	XS10_1-8STA120_160



All dimension in mm

rothoblaas	Postbase TYP XS10_2				

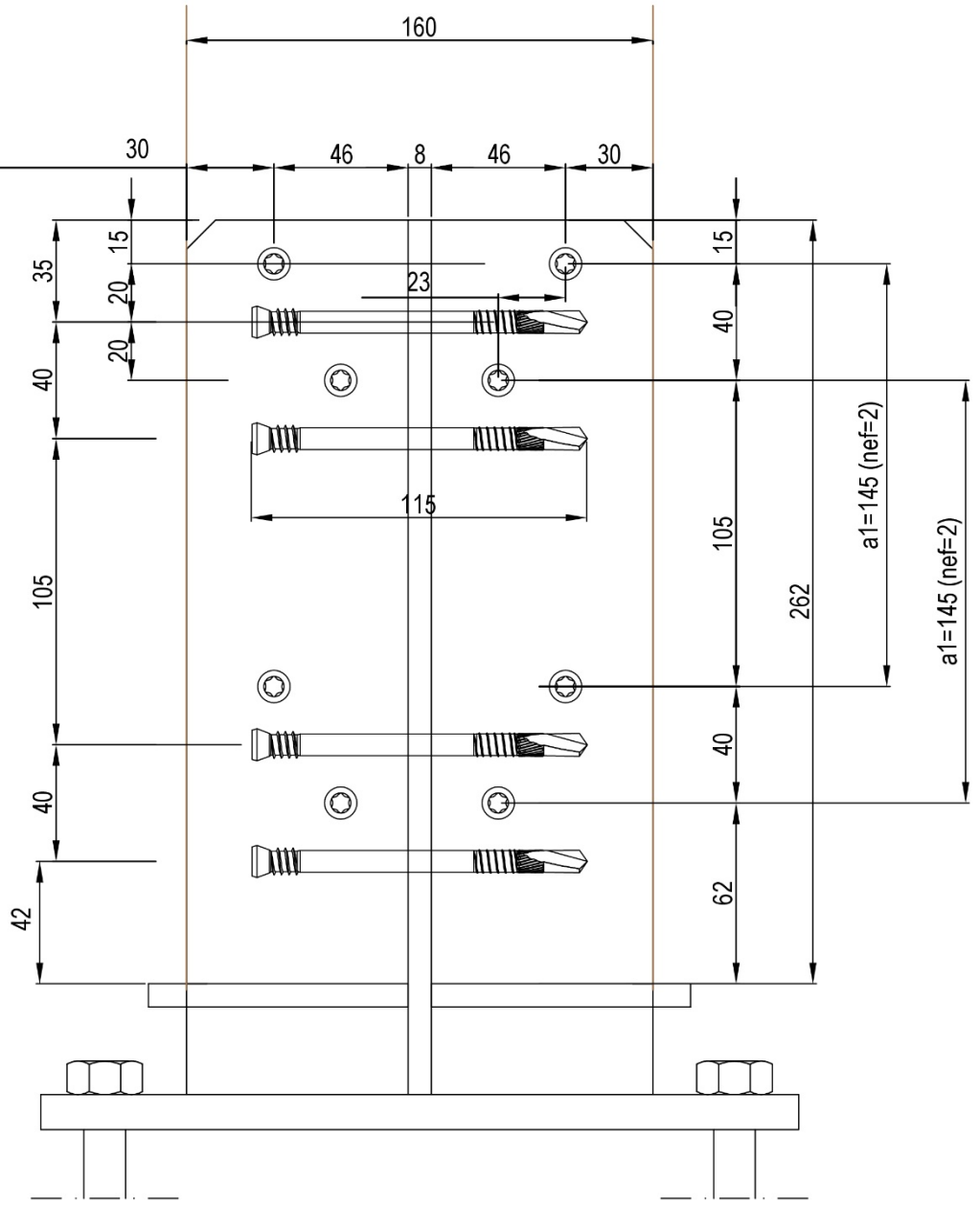
16 selftapping dowels SBD Ø7.5 x 115
Post MIN 160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-16SBD115_160

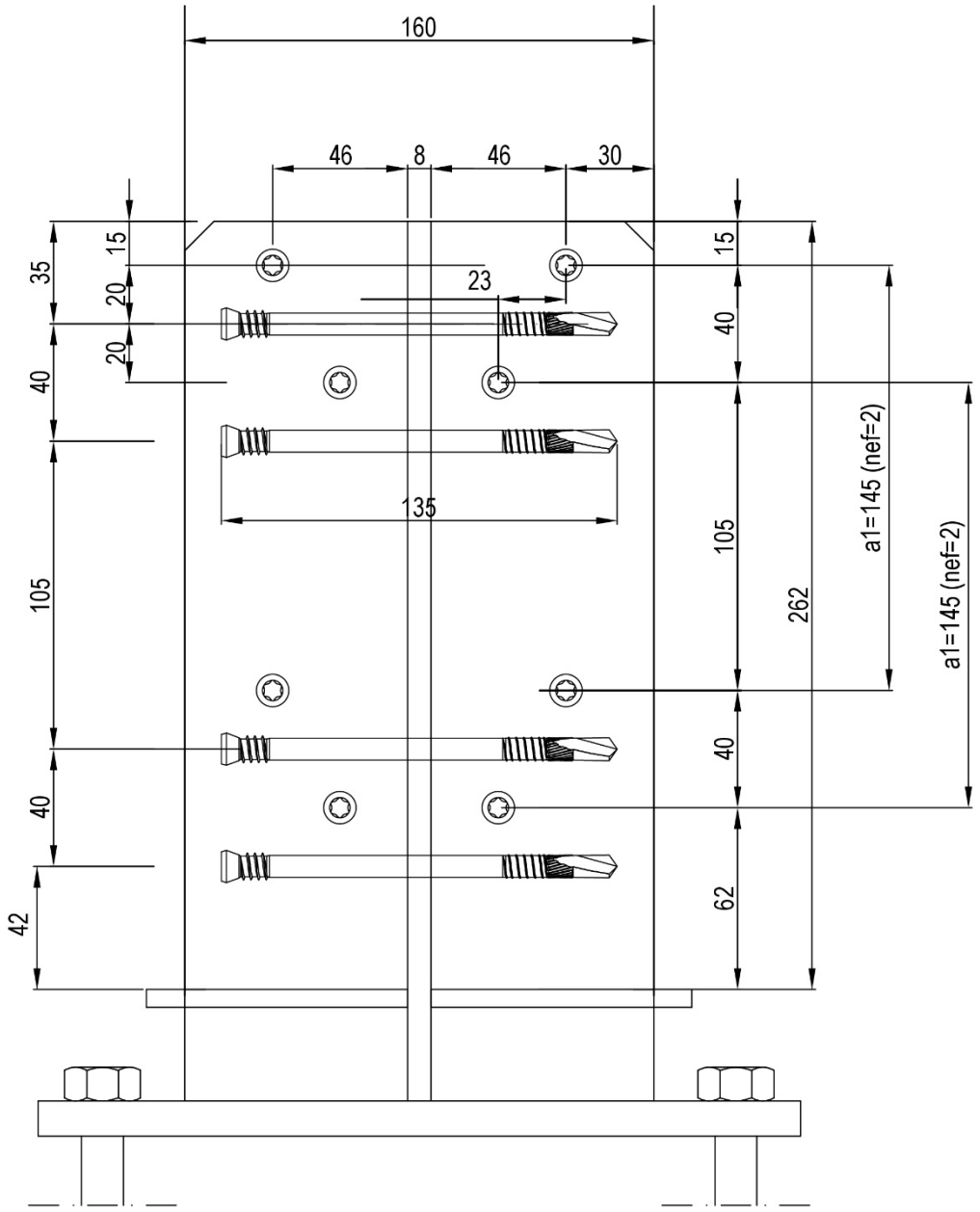
16 selftapping dowels SBD Ø7,5 x 115
Post MIN160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-16SBD115_160 Alt

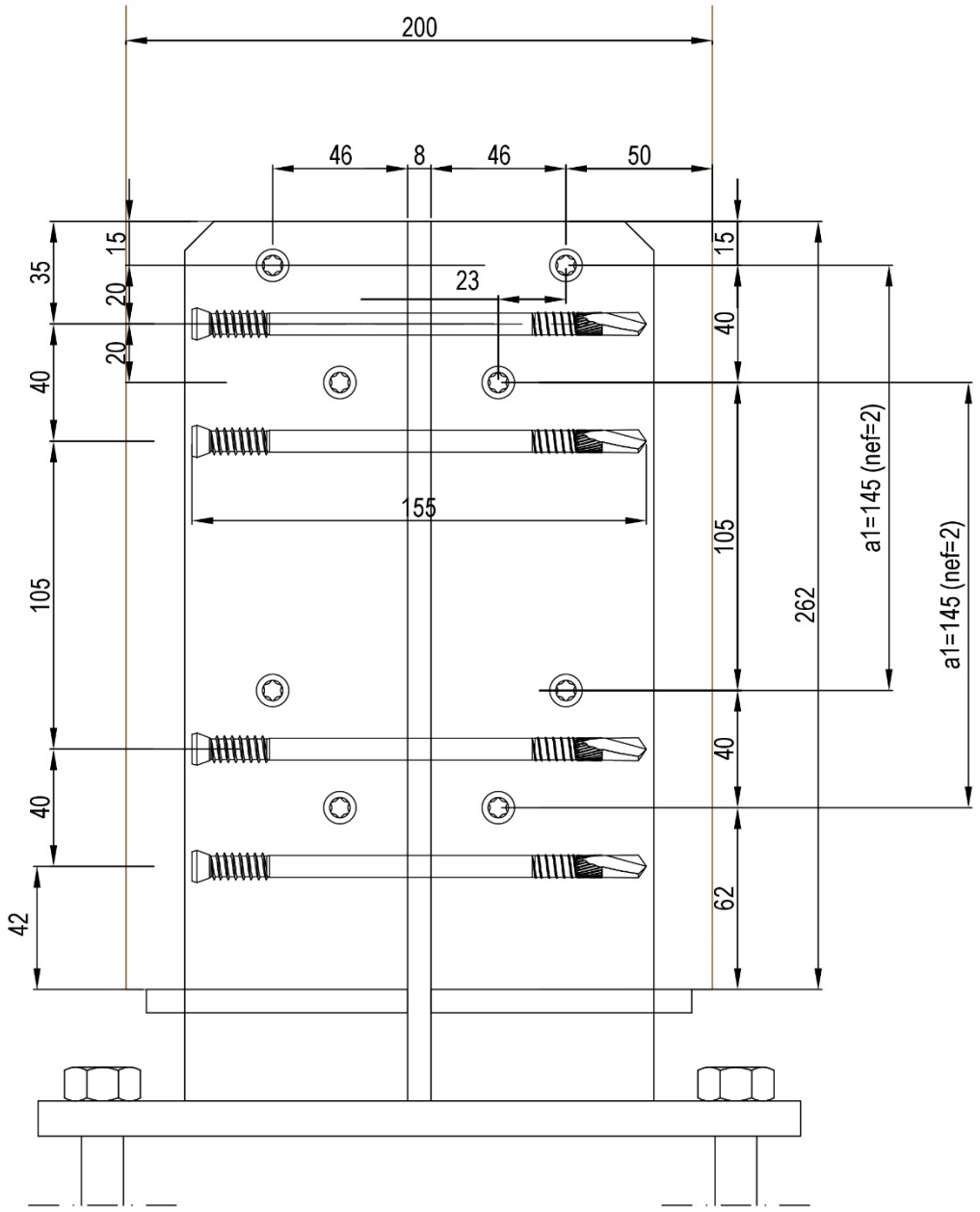
16 selftapping dowels SBD Ø7,5 x 135
Post MIN160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_1-16SBD135_160

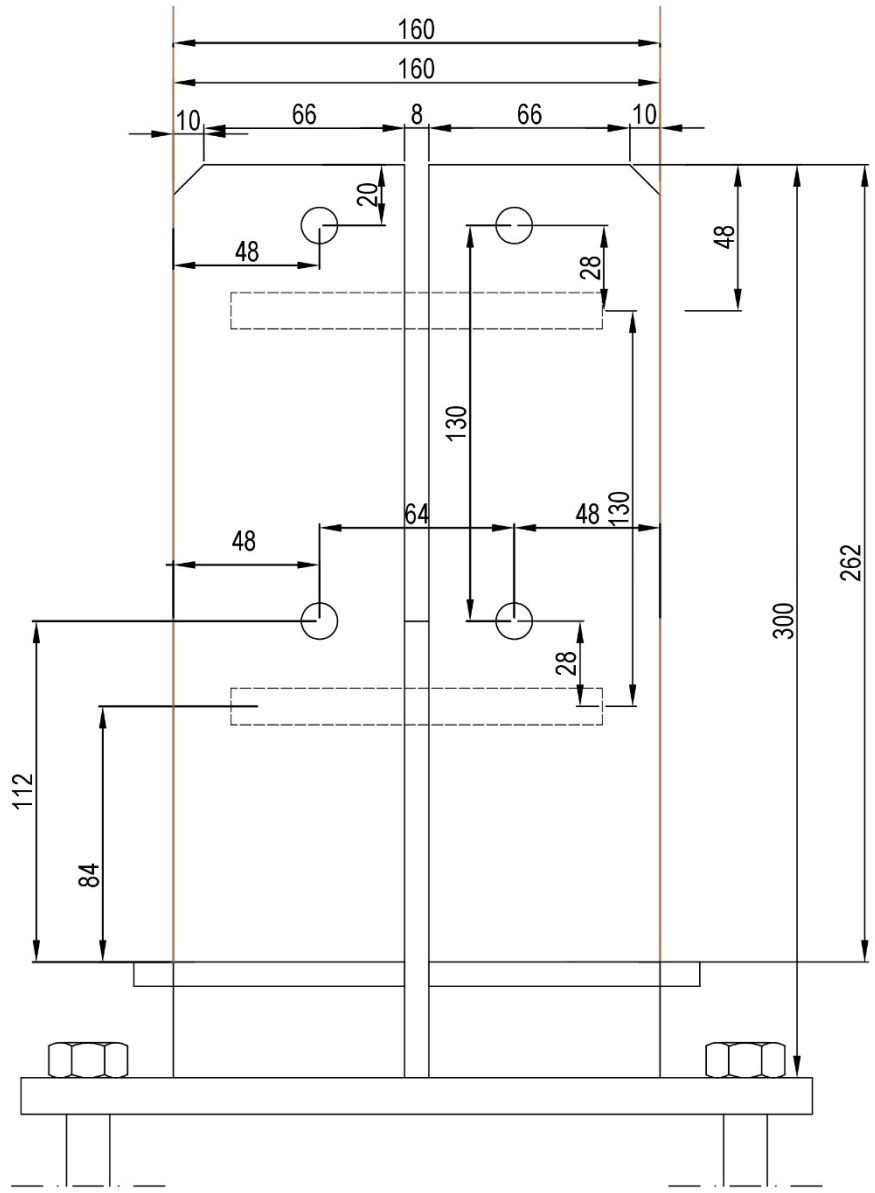
16 selftapping dowels SBD Ø7,5 x 155
Post MIN160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-16SBD155_200

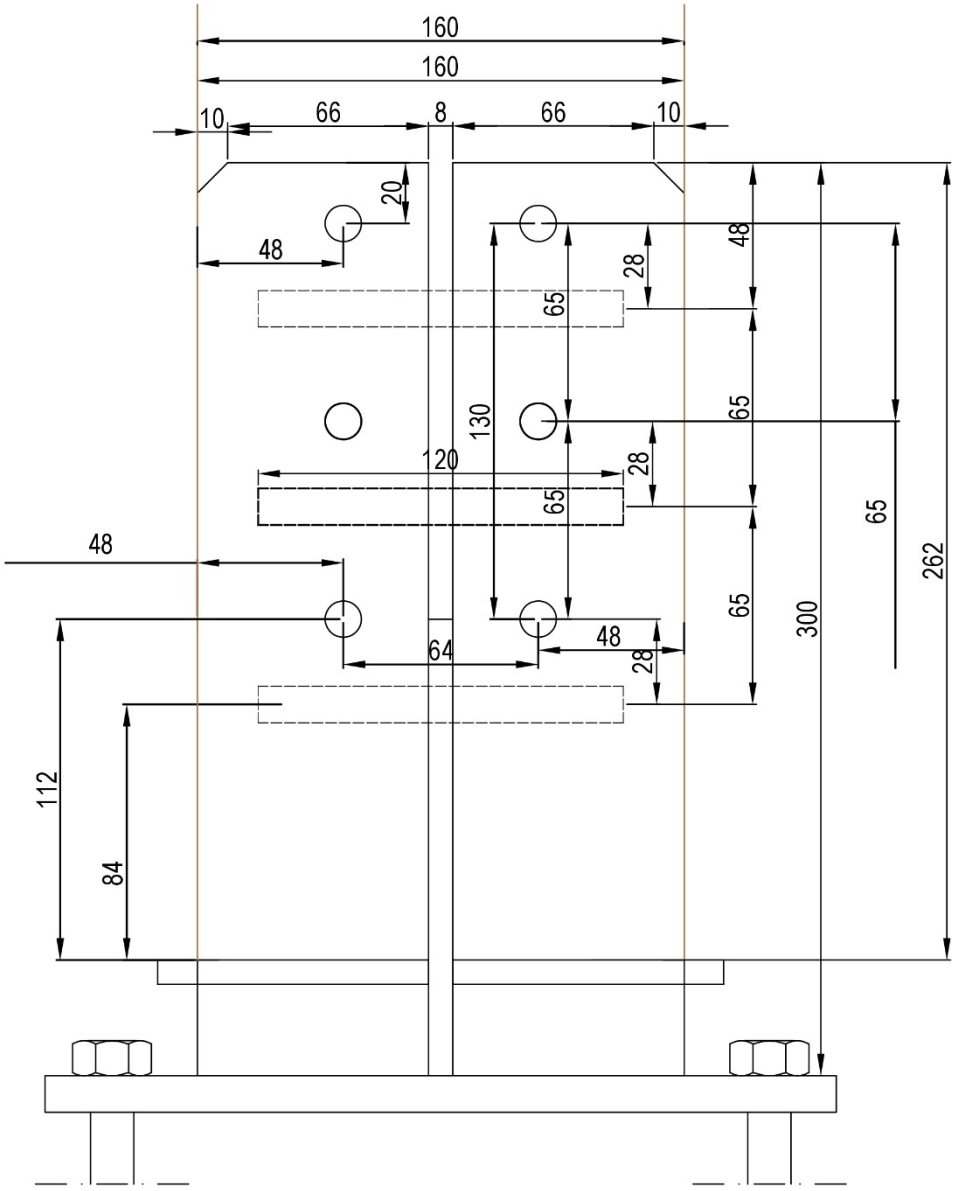
8 smooth dowels STA Ø12 x 120
Post MIN 160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-8STA125_160

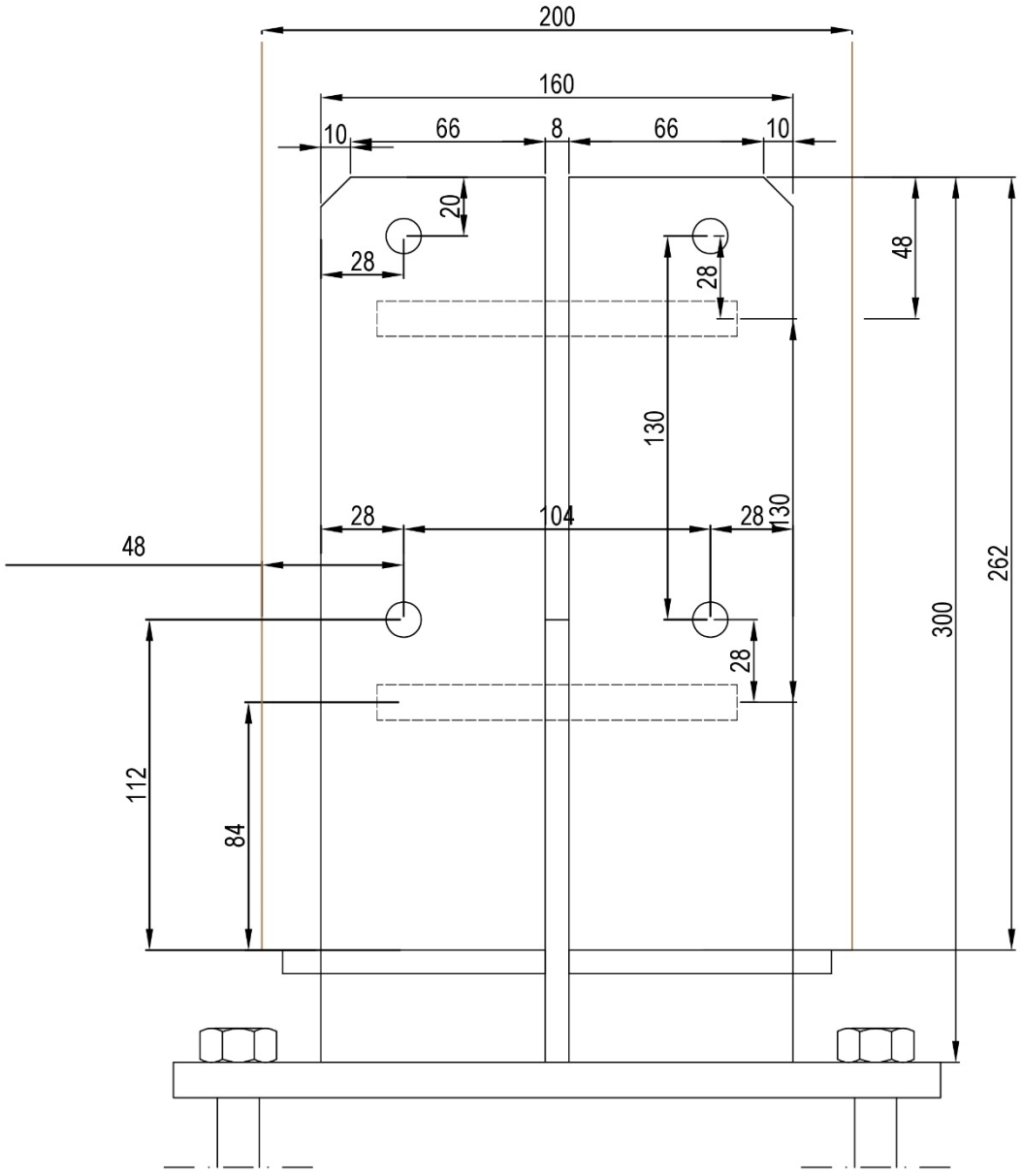
12 smooth dowels STA Ø12 x 120
Post MIN 160x160 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-12STA120_160

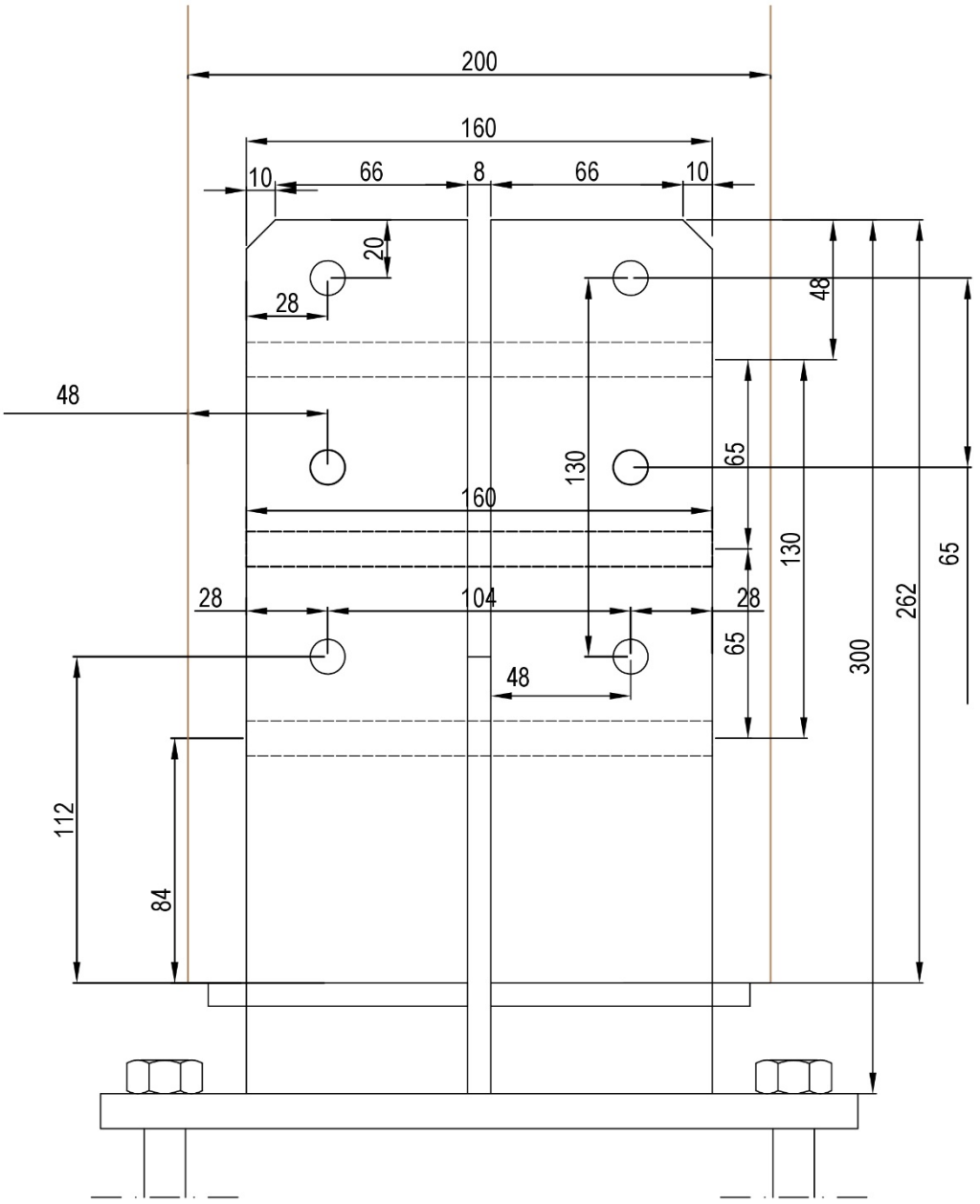
8 smooth dowels STA Ø12 x 120
Post MIN 200x200 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-8STA120_200

12 smooth dowels STA Ø12 x 160
Post MIN 200x200 mm



holes for concrete bolts Ø17

Object:	Postbase TYP XS10_2
Configuration:	XS10_2-12STA160_200