

(1) CERTIFICATE

- (2) No. of the Certificate: **ZP/190/20-PZ** replaces ZP/B045/16-PZ R3
- (3) Product: **Anchor devices type A**
Type: ES, ZS, ESL, ZSL, ESM, ZSM
ESA, ESA Easy
- (4) Manufacturer: **TigaTech GmbH**
- (5) Address: **Derndorferberg 2, 4501 NEUHOFEN / KREMS, AUSTRIA**
- (6) The design of this product and any acceptable variation thereto are specified in the appendix to this certificate.
- (7) The Certification Body of DEKRA Testing and Certification GmbH certifies that this product complies with the requirements of the test regulations listed under item 8 below. The test results are recorded in report PB 16-048 Rev1, PB 16-077 Rev1, PB 16-196, PB 16-198, PB 16-228 und PB 20-078, PB 20-079 and PB 20-08.
- (8) The requirements are assured by compliance with
DIN EN 795:2012 **DIN CEN/TS 16415:2017**
- (9) This certificate relates only to the design and tests of the specified product in accordance to the contemplated requirements. Further requirements applied to the manufacturing process and supply of this product, are not covered by this certificate.
- (10) The manufacturer is authorised to apply the mark of conformity to the products that conform to the types examined.
- (11) This certificate is valid until 2025-10-04.

DEKRA Testing and Certification GmbH
Bochum, 2020-10-05

Signed: Kilisch
Managing director



We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.


Managing director

TRANSLATION

(12) Appendix to

(13) **Certificate**
ZP/190/20-PZ

(14) 14.1 Subject and type

Anchor devices type A

Type: ES	300-800	B / B-S / H / HD-SD / S / S-KP / B-KA
ZS	300-800	B / B-S / H / HD-SD / S / S-KP / B-KA
ESL	300-800	B / B-S / H / HD-B / S / S-KP / T
ZSL	300-800	B / B-S / H / HD-B / S / S-KP / T
ESM	300-800 III	B / B-S / HD-B / H
ZSM	300-800 III	B / B-S / HD-B / H
ES	300-800 III	B / B-S / HD-B
ZS	300-800 III	B / B-S / HD-B
ES	300-800 II	B / B-S
ZS	300-800 II	B / B-S
ZS	300-800 I	B / B-S / H
ZS	300-800	B-KA
ESA	300-800 III	B / B-S
ESA Easy	300-800 III	B / B-S

14.2 Description

Anchor devices are used as single anchor points to protect people against falls from a height.

Mounting is carried out on concrete, steel or wood base, depending on the type of support. The support can be between 300 mm and 800 mm long. An eyelet is secured at the upper end of the support or is alternatively screwed in so it can be rotated. (Figures 2-6). Alternatively, a ring nut can be screwed onto the upper part of the support (M16 in accordance with DIN EN 582, Figure 1).

This is where the user can secure himself with his own personal protective equipment against falling.

The anchor device is designed for bearing loads exerted from any direction parallel to the roof surface.



Figure 1: Anchor eyelet, type: ring nut M16 A2



Figure 2: Anchor point, type: TS-lug (TS-106_V20) (with predetermined breaking point, no chamfer)



Figure 3: Anchor point, type: TS-lug (TS-106_V20) (with predetermined breaking point, no chamfer)



Figure 4: Anchor point, type: TS-lug (TS-011) (no predetermined breaking point, with chamfer (2 x 45°))



Figure 5: Anchor point, type: TS-lug (TS-011) (with predetermined breaking point, with chamfer (1 x 45°))



Figure 5: Anchor point, type: TS-lug (TS-011) (with predetermined breaking point, with chamfer (2 x 45°))

Different variations of anchor devices are described below.

All anchor devices can be mounted thermally separated with plastic panels.

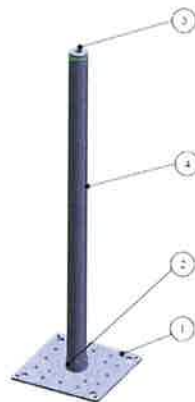


Figure 7: Anchor device, type: ES 300-800 B/B-S/H/HD-SD/S/S-KP/B-KA

- Support: pipe, Ø 40 mm
- Support height: 300 mm to 800 mm
- Base plate: 205 mm x 205 mm x 5 mm
- Mounting base: steel, concrete, OSB-panel 18 mm, multilayer panel 19 mm, wood rafters, wooden formwork 24 mm
- Mounting element concrete: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element OSB-panel 18 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wood rafters: wood screw 2 pcs 8 mm, 160 mm
- Mounting element wooden formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 8: Anchor device, type: ZS 300-800 B/B-S/H/HD-SD/S/S-KP/B-KA

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: 205 mm x 205 mm x 5 mm
- Mounting base: steel, concrete, OSB-panel 18 mm, multilayer panel 19 mm, wooden formwork 24 mm
- Mounting element concrete: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element OSB-panel 18 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wooden formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3

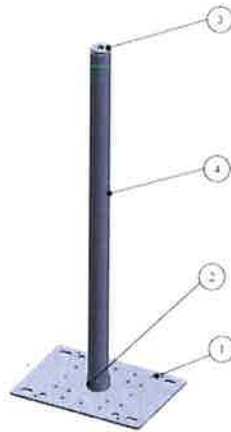


Figure 9: Anchor device, type: ESL 300-800 B/B-S/H/HD-B/S/S-KP/T

- Support: pipe, Ø 40 x 1,5 mm
- Support height: 300 mm to 800 mm
- Base plate: 285 mm x 205 mm x 5 mm
- Mounting base: steel, concrete, hollow concrete slab, OSB-panel 25 mm, multilayer panel 19 mm, wood rafters, wooden formwork 24 mm, trapezoidal profile
- Mounting element concrete: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element OSB-panel 25 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wood rafters: wood screw 2 pcs 8 mm, 160 mm
- Mounting element wooden formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element trapezoidal profile: 4 x 2 pcs, M10 screws + counter bars
- Maximum number of users: 5



Figure 10: Anchor device, Type: ZSL 300-800 B/B-S/H/HD-B/S/S-KP/T

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: 285 mm x 205 mm x 5 mm
- Mounting base: steel, concrete, hollow concrete slab, OSB-panel 25 mm, multilayer panel 19 mm, wood rafters, wooden formwork 24 mm, trapezoidal profile
- Mounting element concrete: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 4 x 8 mm concrete screw or 4 x 10 mm concrete anchor
- Mounting element OSB-panel 25 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wood rafters: wood screw 2 pcs 8 mm, 160 mm
- Mounting element wooden formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element trapezoidal profile: 4 x 2 pcs, M10 screws + counter bars
- Maximum number of users: 5

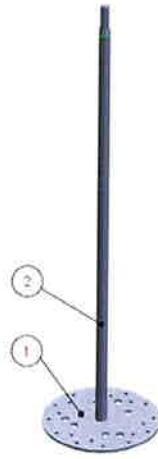


Figure 11: Anchor device, type: ESM 300-800 III B/B-S/HD-B/H

- Support: round-bar steel, Ø 20 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø200 mm x 5 mm
- Mounting base: concrete, hollow concrete slab, OSB-panel 25 mm, multilayer panel 19 mm, wood rafters, wood formwork 24 mm
- Mounting element concrete: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element OSB-panel 25 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wood rafters: wood screw 4 pcs 8 mm, 160 mm
- Mounting element wood formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Maximum number of users: 4

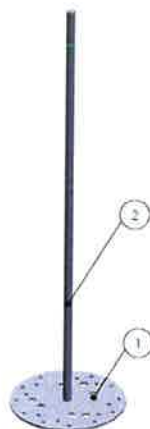


Figure 12: Anchor device, type: ZSM 300-800 III B/B-S/HD-B/H

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø200 mm x 5 mm
- Mounting base: concrete, hollow concrete slab, OSB-panel 25 mm, multilayer panel 19 mm, wood rafters, wood formwork 24 mm
- Mounting element concrete: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element OSB-panel 25 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element multilayer panel 19 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Mounting element wood rafters: wood screw 4 pcs 8 mm, 160 mm
- Mounting element wood formwork 24 mm: 20 x wood screw, 6 mm x 40 mm or 6 mm x 60 mm
- Maximum number of users: 4

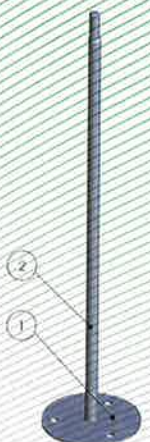


Figure 13: Anchor device, type: ES 300-800 III B/B-S/HD-B

- Support: round-bar steel, Ø 20 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø 165 mm x 5 mm
- Mounting base: concrete, hollow concrete slab
- Mounting element concrete: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 14: Anchor device, type: ZS 300-800 III B/B-S/HD-B

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø 165 mm x 5 mm
- Mounting base: concrete, hollow concrete slab
- Mounting element concrete: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Mounting element hollow concrete slab: 3 x 8 mm concrete screw or 3 x 10 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 15: Anchor device, type: ES 300-800 II B/B-S

- Support: round-bar steel, Ø 20 mm
- Support height: 300 mm to 800 mm
- Base plate: 8 mm
- Mounting base: concrete
- Mounting element concrete: 2 x 10 mm concrete screw or 2 x 12 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 16: Anchor device, type: ZS 300-800 II B/B-S

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: 8 mm
- Mounting base: concrete
- Mounting element concrete: 2 x 10 mm concrete screw or 2 x 12 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 17: Anchor device, type: ZS 300-800 I B/B-S/H

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Base plate: 97 mm x Ø 16,5/14 mm x 10 mm
- Mounting base: concrete, wood rafters
- Mounting element concrete: 1 x 10 mm concrete screw or 1 x 12 mm concrete anchor
- Mounting element wood rafters: wood screw 1 pcs 8 mm, 160 mm
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 3



Figure 18: Anchor device, type: ZS 300-800 B-KA

- Support: round-bar steel, Ø 16 mm
- Support height: 300 mm to 800 mm
- Mounting base: concrete
- Mounting element: 1 x Hilti Hit-HY 170
- Maximum number of users: 3

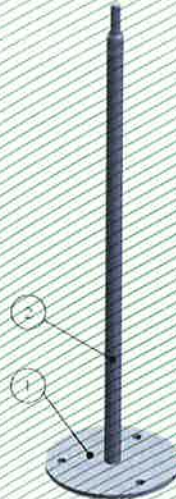


Figure 19: Anchor device, type: ESA 300-800 III B/B-S

- Support: round-bar steel, Ø 30 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø 200 mm x 8 mm
- Mounting base: concrete
- Mounting element: 3 x 10 concrete screw or 3 x 12 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 5



Figure 20: Anchor device, type: ESA Easy 300-800 III B/B-S

- Support: round-bar steel, Ø 25 mm
- Support height: 300 mm to 800 mm
- Base plate: Ø 200 mm x 8 mm
- Mounting base: concrete
- Mounting element: 3 x 8 concrete screw, 3 x 10 mm concrete screw or 3 x 10 mm concrete anchor
- Borehole diameter on the base plate: Ø 14 mm
- Maximum number of users: 5

Remark: The manufacturer may specify and use equivalent mounting elements or higher value mounting elements.

(15) Report

PB 16-048 Rev1, 2016-05-23

PB 16-077 Rev1, 2016-23-05

PB 16 196, 2017-12-16

PB 16-198, 2019-12-19

PB 16-228, 2016-10-05

PB 20-078, 2020-10-02

PB 20-079, 2020-10-02

PB 20-080, 2020-10-02