

Highload Anchor SLZ

Steel, zinc plated



Highload Anchor SLZ-S



Highload Anchor SLZ-B



Range of loading: 5,7 kN–18,7 kN
Range of concrete quality: C20/25–C50/60



Description

The Highload Anchor SLZ with the diameter 14/M10 is a torque controlled sleeve anchor (ETA, Option 1) for through fastenings in cracked and uncracked concrete. With a drill hole diameter of 14mm, it is ideal for through fastenings in pallet racks with a 15mm clearance hole. The four part extension sleeve inserts the load smoothly into the concrete. The plastic-coated cone ensures the post-expansion. Two different models of the Highload Anchor SLZ are available: SLZ-S with hexagon head and SLZ-B with threaded bolt and nut.

- Can be dismantled with a flush surface result (only the cone and expansion sleeve remain in the drill-hole)
- Small edges distances and spacings
- Ideal external diameter and diameter of drill hole for clearance holes with 15mm diameter
- Approved to use under fire exposure R30-R120

Advantages

- High tension and shear loads
- Screw model (SLZ-S) for finished surfaces

Applications

Medium to heavy duty anchoring in cracked and uncracked concrete, e.g. pallet racks, base plates, machines.

Highload anchor SLZ-S



- Steel, zinc plated; with hexagon head
- Approved for cracked and uncracked concrete

| Description | Ref. No. | Drill hole Ø x depth mm | Drill hole depth through fixture mm | Setting depth mm | Anchor length l mm | Fixture thickness t _{fix} mm | Thread | Pkg. cont. pcs. | Weight per pkg. kg |
|-------------|----------|-------------------------|-------------------------------------|------------------|--------------------|---------------------------------------|--------|-----------------|--------------------|
| SLZ-S 14-10 | 15260101 | 14x85 | 95 | 73 | 94 | 10 | M10 | 25 | 2,71 |
| SLZ-S 14-25 | 15270101 | 14x85 | 110 | 73 | 109 | 25 | M10 | 25 | 3,08 |
| SLZ-S 14-50 | 15275101 | 14x85 | 135 | 73 | 134 | 50 | M10 | 25 | 3,71 |

Other lengths and special assemblies on demand.

Highload anchor SLZ-B



- Steel, zinc plated; with bolt and nut
- Approved for cracked and uncracked concrete

| Description | Ref. No. | Drill hole Ø x depth mm | Drill hole depth through fixture mm | Setting depth mm | Anchor length l mm | Fixture thickness t _{fix} mm | Thread | Pkg. cont. pcs. | Weight per pkg. kg |
|-------------|----------|-------------------------|-------------------------------------|------------------|--------------------|---------------------------------------|--------|-----------------|--------------------|
| SLZ-B 14-25 | 17270101 | 14x85 | 110 | 73 | 111 | 25 | M10 | 25 | 3,08 |

Other lengths and special assemblies on demand.

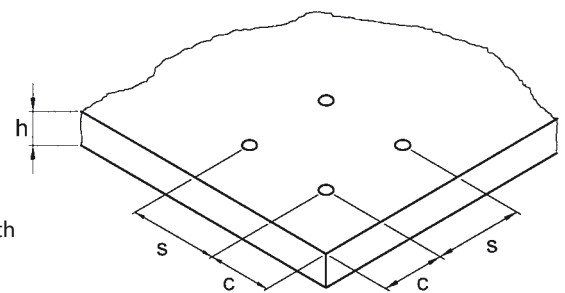
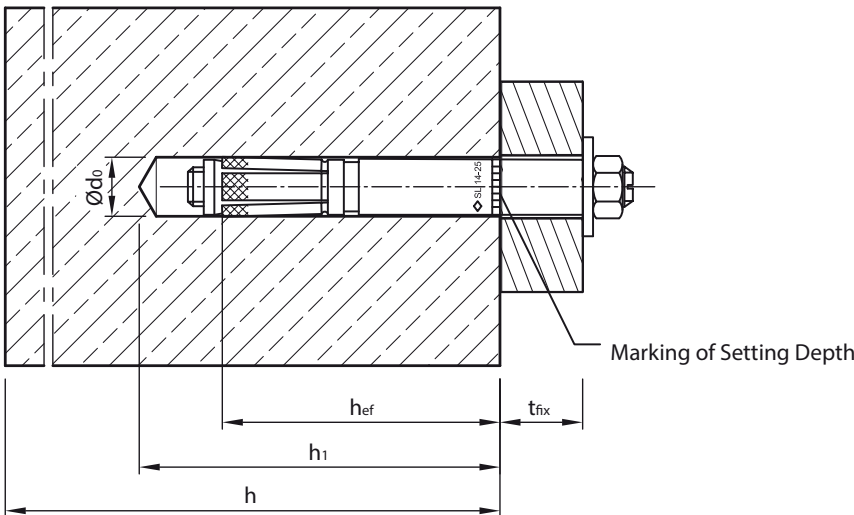


Extract from Permissible Service Conditions of European Technical Assessment ETA-09/0342 for use in cracked and uncracked concrete (Option 1)

Approved loads according to EN 1992-4 for single anchors without the influence of spacing and edge distances. The total safety factor (γ_M and γ_p) is included. Load capacities under fire exposure see page 198.

| Loads and performance data | Highload Anchor SLZ | SLZ 14 M 10 |
|---|---------------------|---------------------------------|
| cracked concrete | | |
| Approved loads, tension | C20/25 | appr. N [kN] 5,7 |
| | C25/30 | appr. N [kN] 6,4 |
| | C30/37 | appr. N [kN] 7,0 |
| | C40/50 | appr. N [kN] 8,1 |
| | C50/60 | appr. N [kN] 9,0 |
| uncracked concrete | | |
| Approved loads, tension | C20/25 | appr. N [kN] 9,5 |
| | C25/30 | appr. N [kN] 10,6 |
| | C30/37 | appr. N [kN] 11,7 |
| | C40/50 | appr. N [kN] 13,5 |
| | C50/60 | appr. N [kN] 15,1 |
| cracked concrete | | |
| Approved loads, shear | C20/25 | appr. V [kN] 17,2 ¹⁾ |
| | > C25/30 | appr. V [kN] 18,7 ¹⁾ |
| uncracked concrete | | |
| Approved loads, shear | C20/25 | appr. V [kN] 18,7 ¹⁾ |
| | > C25/30 | appr. V [kN] 18,7 ¹⁾ |
| cracked and uncracked concrete | | |
| Approved bending moments | | appr. M [Nm] 34,3 |
| Spacing and edge distance | | |
| Effective anchorage depth | h_{ef} | [mm] 65 |
| Characteristic spacing | $s_{cr,N}$ | [mm] 195 |
| Characteristic edge distance | $c_{cr,N}$ | [mm] 97,5 |
| Minimum spacing / for edge distance c | $s_{min} / c \geq$ | [mm] 60 / 120 |
| Minimum edge distance / for spacing s | $c_{min} / s \geq$ | [mm] 70 / 130 |
| Minimum thickness of concrete slab | h_{min} | [mm] 130 |
| Installation parameters | | |
| Drill hole diameter | d_o | [mm] 14 |
| Diameter of clearance hole in the fixture | $d_{r \leq}$ | [mm] 16 |
| Depth of drill hole | $h_1 \geq$ | [mm] 85 |
| Installation torque | T_{inst} | [Nm] 50 |
| Width across nut | SW | [mm] 17 |

¹⁾ $t_{fix,max} = 75mm$



Installation

